Appendix E

Noise

SoundPlan Modeling

Supporting Information

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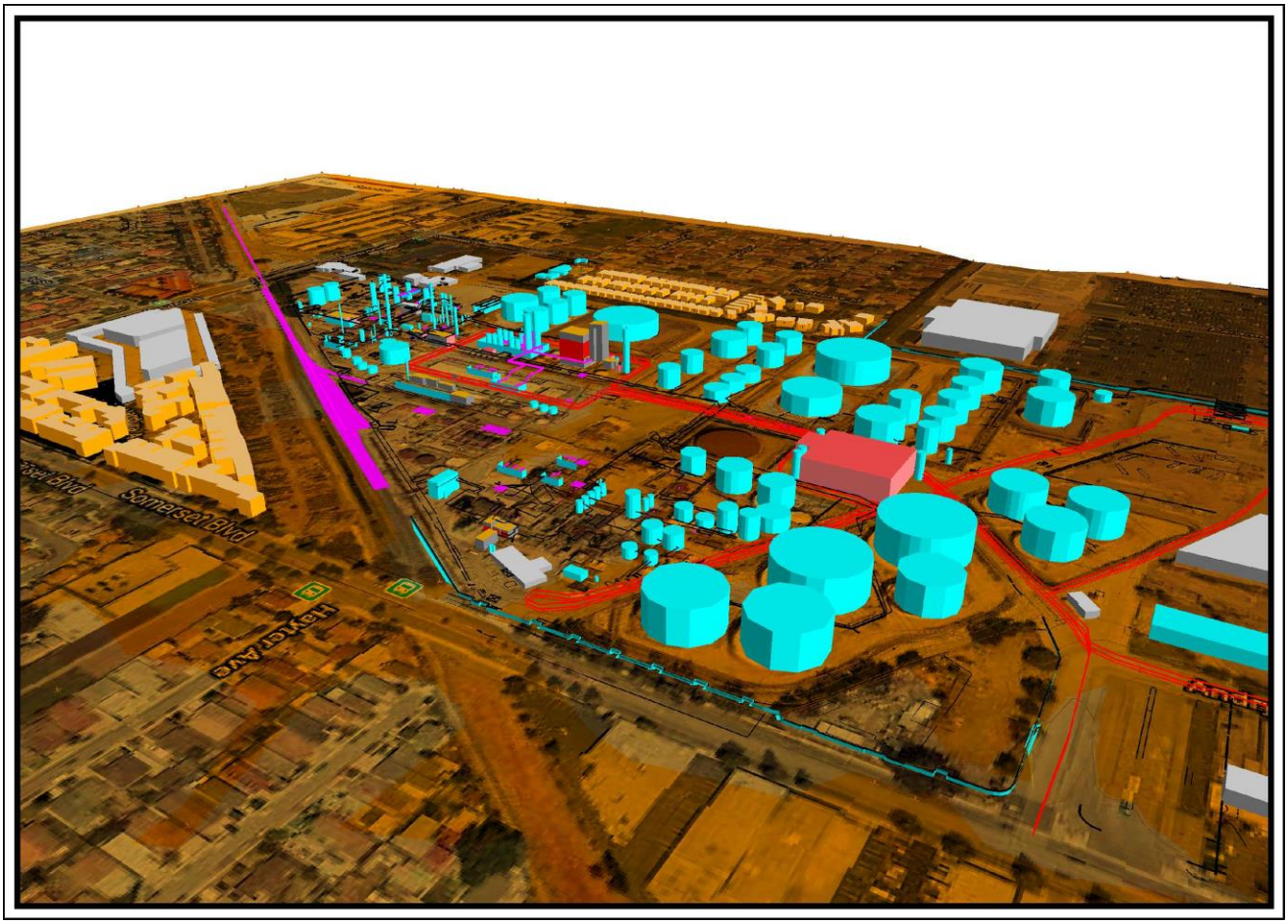
Navcon Engineering Report No. 204539M [Rev M]

PARAMOUNT PETROLEUM ALTAIR RENEWABLE FUELS PROJECT

California Environmental Quality Act (CEQA)

Noise Impact Assessment

(26-Oct-2021)



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1.0 INTRODUCTION

This report summarizes the results of the Paramount AltAir Refinery Revised Renewable Fuels Project noise impact assessment. The noise assessment is based upon the California Environmental Quality Act (CEQA) thresholds of significance and the Paramount Municipal Code (PMC) maximum permissible noise levels as presented in ***Section 4.0***. The project was conducted by Hans Forschner and Jim Steedman of Navcon Engineering under the direction of Kathryn Gleeson, AltAir Paramount LLC and Debbie Stevens, Environmental Audit Inc.

1.1 Renewable Fuels Project Overview

Conditional Use Permit, (**CUP 757**) Mitigated Negative Declaration (dated 13-Dec-2013) was adopted for the **Paramount AltAir Renewable Fuels Project** (***Renewable Fuels Project***) allowing the facility to convert up to 3,500 barrels per day of non-edible vegetable oils and beef tallow into renewable fuels, including aviation (jet), diesel, naphtha (gasoline), and fuel gas. The Project involved the modification and replacement of some existing refinery equipment, the addition of new vessels, reactors and processes, etc. The noise impacts in the MND were determined to be less than significant for noise because the project mostly used existing equipment. The Refinery Renewable Fuels Project noise impact assessment was based upon the refinery operating as a crude oil refinery during the 2009-2012-time frame.

AltAir Paramount, LLC has proposed modifications to the Renewable Fuels Project which will convert the remainder of the Paramount crude oil Refinery into a renewable fuels production facility, eliminating the refining of crude oil. The Project, which is a continuation of the Renewable Fuels Project is referred to as the ***Revised Renewable Fuels Project*** (***Revised Project***). Project modifications will include a new Pretreat Unit, modifications to the existing Renewable Fuels Unit, a new Renewable Fuels Unit (Unit B), a new Hydrogen Generation Unit, a new Propane Recovery Unit, upgrades to the existing wastewater treatment system, a new Hydrogen Sulfide Recovery Unit, a second Sour Water Stripper, a new flare, modifications to the truck and rail loading/unloading racks, and new pipelines within the facility. In addition, some existing tanks will be upgraded/repaired and be permitted to handle different products (e.g., non-edible vegetable oils and beef tallow).

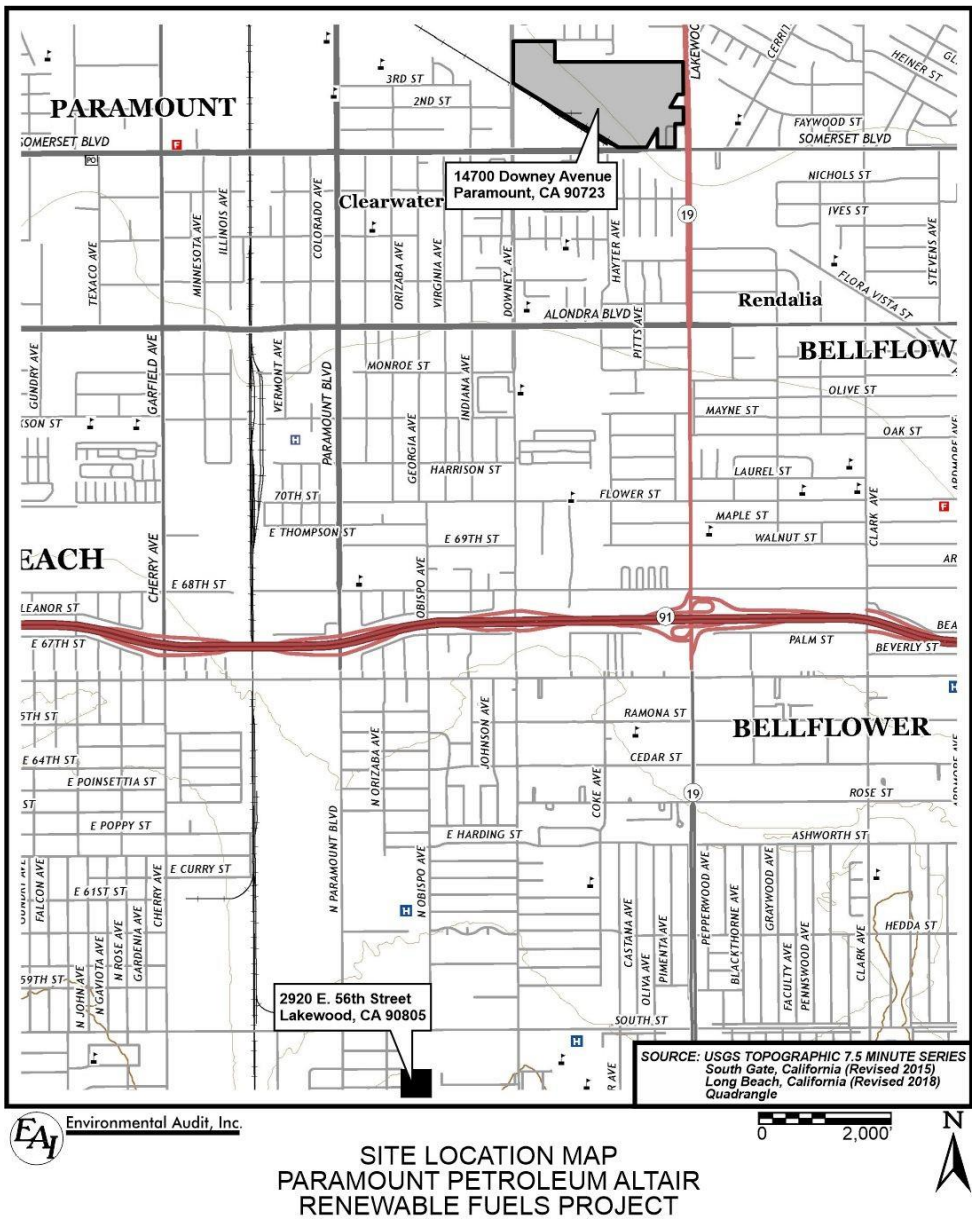
The Revised Project construction will be phased over a two-to-three-year period. The existing Renewable Fuels Unit A will be upgraded to increase capacity and more efficiently produce renewable diesel, jet fuel and gasoline. A new Renewable Fuels Unit B will be installed to produce

additional renewable diesel, jet fuel and gasoline. The unit will also produce gases that will be used to fuel heaters and boilers. In addition, upgrades will be made to Supporting Units.

1.2 Paramount AltAir Refinery Project Location

The Paramount AltAir Refinery is located at 14700 Downey Avenue, Paramount, California (refer to ***Figure 1-1***). The City is located east of the Los Angeles River and is approximately 16.5 miles southeast of downtown Los Angeles. The City of Paramount is bounded by the cities of South Gate, Downey, Bellflower, Long Beach, Compton, and Lynwood. The Refinery is bounded by Lakewood Boulevard, Somerset Boulevard, Downey Avenue, and Contreras Street.

Figure 1-1 Refinery Site Location Map



1.3 Noise Impact Assessment Procedure

The noise impact assessment was conducted in accordance with CEQA Guidelines and the Paramount Municipal Code (refer to ***Section 4.0***).

Three-dimensional (3D) acoustical noise models (refer to ***Section 5.0***) were created to predict the Paramount AltAir Refinery noise impact for the following three cases:

Case 1. the Paramount AltAir Refinery operating as a crude oil refinery (referred to as Operating Crude Refinery),

Case 2. the Renewable Fuels Project[1] plus the demolition and construction associated with the Revised Renewable Fuels Project,

Case 3. the Revised Renewable Fuels Project Operation.

The **CEQA noise impact assessment** was conducted by comparing the difference between the Paramount AltAir Refinery predicted noise levels (*Case 2* vs. *Case 1* and *Case 3* vs. *Case* 1) with the CEQA thresholds of significance.

Scenario 1. The difference between the predicted CNEL[2] for *Case 2* and *Case 1* is a measure of the noise impact from the demolition and construction associated with the Revised Renewable Fuels Project. The CNEL difference levels were used together with the CEQA thresholds to determine the significance of the construction noise impact.

Scenario 2. The difference between the predicted CNEL for *Case 3* and *Case 1* is a measure of the noise impact from the Revised Renewable Fuels Project Operation. The CNEL difference levels were used together with the CEQA thresholds to determine the significance of the operational noise impact.

The **PMC noise impact assessment** was conducted by comparing the Paramount AltAir Refinery predicted max-hour noise levels (Leq max,hr[3]) for Case 1, Case 2 and Case 3 with the noise standard maximum permissible noise levels .

---

[1] The City of Paramount determined that the Renewable Fuels Project, CUP 757 and ZV 401 would not result in any significant adverse unmitigable impacts and issued a Mitigated Negative Declaration (30-Dec-2013).

[2] CNEL is the Community Noise Exposure Level [dBA] as described in ***Section 3.1.7***.

[3] The one-hour equivalent max-hour noise level is the maximum noise level for the loudest daytime hour and the loudest nighttime hour.

2.0 EXECUTIVE SUMMARY – NOISE IMPACT ASSESMENTS

The principal objectives of this study were:

1. to assess whether or not the demolition and construction associated with the Revised Renewable Fuels Project will result in a significant adverse unmitigable noise impact to the surrounding residential communities (CEQA Assessment),
2. to assess whether or not the operation of the Revised Renewable Fuels Project will result in a significant adverse unmitigable noise impact to the surrounding residential communities (CEQA Assessment),
3. to assess whether or not the Paramount AltAir Refinery operating as a crude oil refinery (i.e., *Case 1*) was in conformance with the Paramount Municipal Code,
4. to assess whether or not the Renewable Fuels Project operation plus the demolition and construction associated with the Revised Renewable Fuels Project (i.e., *Case 2*) will be in conformance with the Paramount Municipal Code and
5. to assess whether or not the Revised Renewable Fuels Project operation (i.e., *Case 3*) will be in conformance with the Paramount Municipal Code.

2.1 CEQA Noise Impact Assessment

The 3D noise models presented in ***Section 5.0*** were used to predict the CNEL at the 22 sensitive community receptor locations shown in ***Figure 2-1*** and ***Figure 2-2***. Receptors MH-1 through MH-8 are located in the Cinderella Mobile Home Park on the North side of the refinery. Receptors CA-1 through CA-4 are single-family, single-story homes also located on the North side of the refinery on Castana Avenue. Receptors SS-1 through SS-6 are located South of the refinery at the Somerset Village Apartments. Receptors HWES & PHS are located at the Harry Wirtz Elementary School and the Paramount High School. Receptors RMHP & RLCTP are located at the Rainbow Mobile Home Park and the Rancho Los Cerritos Trailer Park.

The predicted CNEL and noise assessments are presented in ***Table 2-1*** (Scenario 1) and ***Table 2-2*** (Scenario 2). The ground and first floor receptors are located 8 ft. above the ground. The second and third floor receptors are located 17 ft. and 26 ft. above the ground respectively.

The Renewable Fuels Project CEQA Noise Impact Assessment can be summarized as follows:

Table 2-1. [Scenario 1] The noise impact from the operation of Renewable Fuels Project plus the demolition and construction associated with modifications for the Revised Renewable Fuels Project will be less than the CEQA thresholds of significance and will not represent a significant noise impact to the residential community provided the temporary noise barriers and equipment restrictions are implemented as described in ***Section 5.0***.

Table 2-2. [Scenario 2] The noise impact from the operation of the Revised Renewable Fuels Project Operation will be less than the CEQA thresholds of significance and will not represent a significant noise impact to the residential community.

2.2 Paramount Municipal Code Noise Impact Assessment

The 3D noise models presented in ***Section 5.0*** were used to predict the Leq max,hr levels at the at the 27-refinery property line receptor locations shown in ***Figure 2-3***. Receptors W-1, W-2 & W-3 are located on the refinery West property line. Receptors N-1 through N-8 are located on the refinery North property line. Receptors E-1 through E-6 are located on the refinery East property line. Receptors S-1 through S-10 are located on the South property line.

The predicted Leq max,hr levels and noise assessments are presented in ***Table 2-3*** (Case 1), ***Table 2-4*** (Case 2) and ***Table 2-5*** (Case 3).

The Renewable Fuels Project PMC Noise Impact Assessment can be summarized as follows:

Table 2-3. [Case 1] The Paramount AltAir Refinery operating as a crude oil refinery (i.e., Case 1) is in conformance with the Paramount Municipal Code. The predicted max-hour noise levels do not exceed the maximum permissible noise level.

Table 2-4. [Case 2] The Renewable Fuels Project plus the demolition and construction associated with the Revised Renewable Fuels Project is predicted to be in conformance with the Paramount Municipal Code provided the temporary noise barriers and equipment restrictions are implemented as described in ***Section 5.0***. The predicted max-hour noise levels do not exceed the maximum permissible noise level.

Table 2-5. [Case 3] The Revised Renewable Fuels Project operation is predicted to be in conformance with the Paramount Municipal Code. The predicted max-hour noise levels do not exceed the maximum permissible noise level

Figure 2-1 Refinery Site Plan & CEQA Sensitive Receptor Locations (Overview)

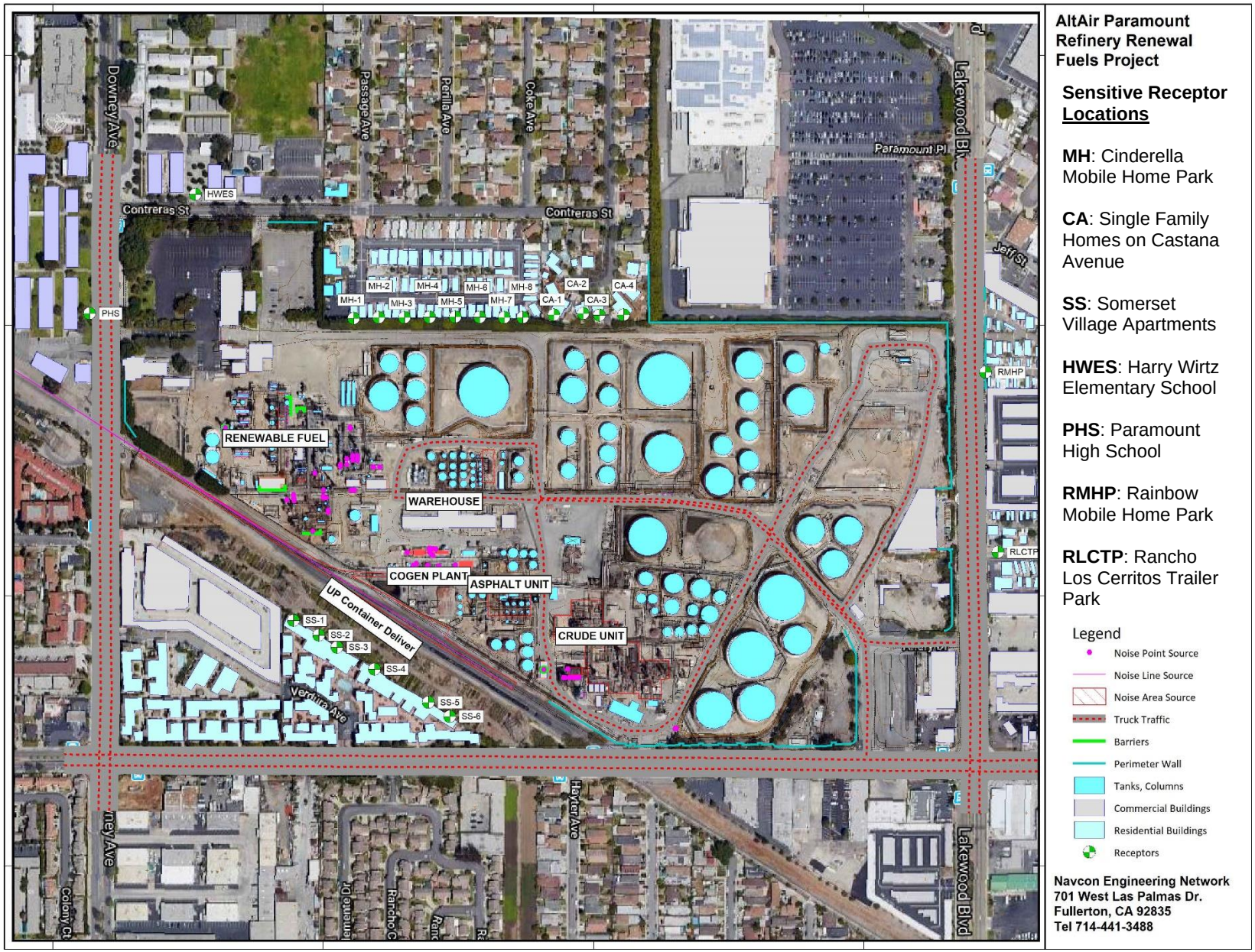


Figure 2-2 Refinery Site Plan & CEQA Sensitive Receptor Locations (Zoom View)

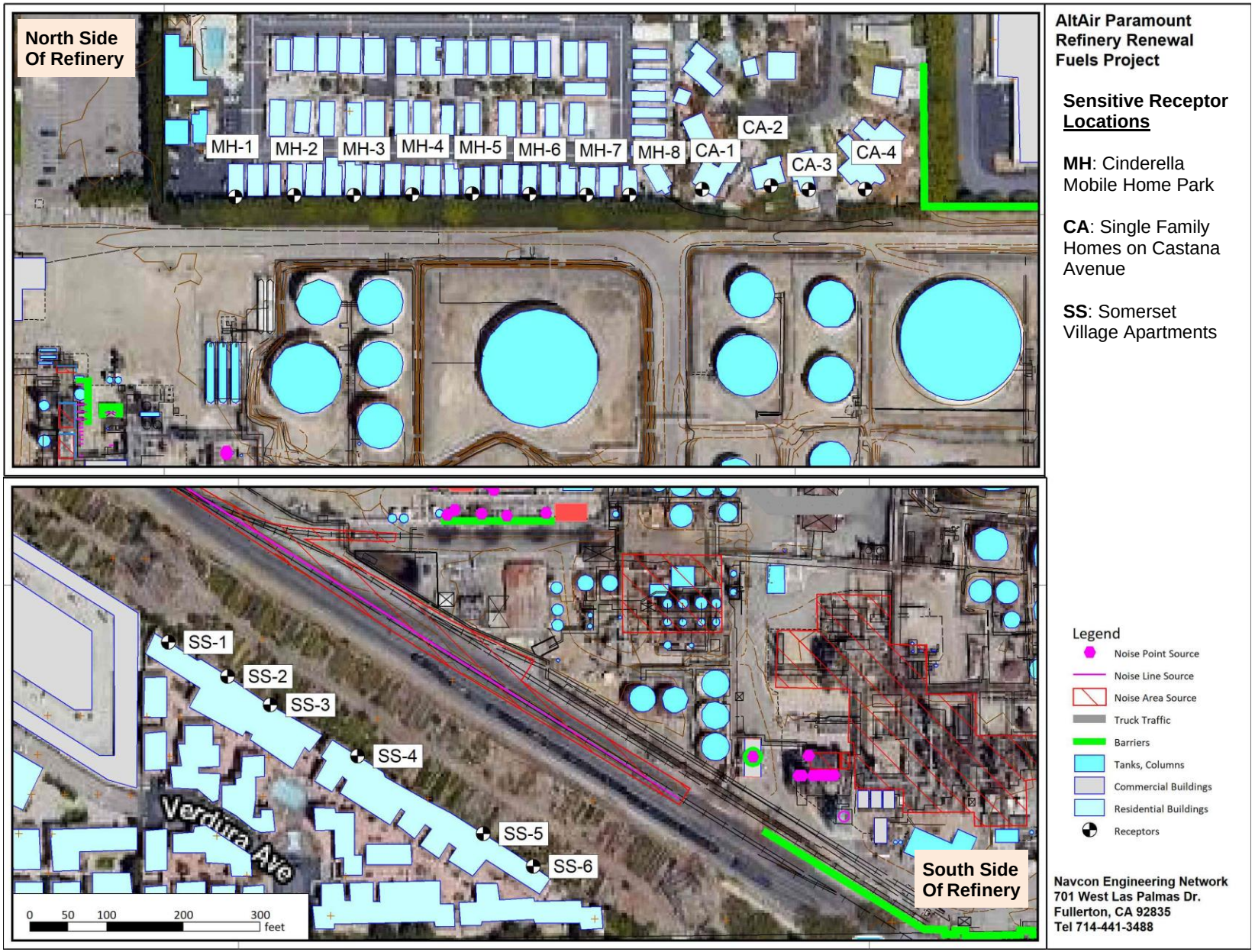


Table 2-1 CEQA Noise Impact, Renewable Fuels Project Demolition/Construction (Scenario 1, Case 2-Case 1)

Receptor	Floor	Operating Crude Refinery, Case 1	Renewable Fuels Project, Operation + Construction, Case 2	Difference, Case 2 - Case 1	Significant Impact?
SS-1	1st	73.0	74.1	1.1	No
SS-1	2nd	73.1	74.2	1.1	No
SS-1	3rd	73.4	74.5	1.1	No
SS-2	1st	71.7	73.2	1.5	No
SS-2	2nd	72.1	73.6	1.5	No
SS-2	3rd	72.4	73.9	1.5	No
SS-3	1st	70.4	72.9	2.5	No
SS-3	2nd	71.2	73.3	2.1	No
SS-3	3rd	71.6	73.6	2.0	No
SS-4	1st	69.7	72.6	2.9	No
SS-4	2nd	70.7	73.2	2.5	No
SS-4	3rd	71.0	73.4	2.4	No
SS-5	1st	70.9	73.1	2.2	No
SS-5	2nd	71.5	73.6	2.1	No
SS-5	3rd	71.8	73.7	1.9	No
SS-6	1st	70.9	73.1	2.2	No
SS-6	2nd	71.5	73.5	2.0	No
SS-6	3rd	71.7	73.6	1.9	No
MH-1	G	72.6	64.0	-8.6	No
MH-2	G	70.7	63.1	-7.6	No
MH-3	G	68.3	62.9	-5.4	No
MH-4	G	65.6	62.1	-3.5	No
MH-5	G	62.4	60.4	-2.0	No
MH-6	G	62.1	59.5	-2.6	No
MH-7	G	63.3	59.8	-3.5	No
MH-8	G	63.7	61.0	-2.7	No
CA-1	G	62.4	62.4	0.0	No
CA-2	G	62.3	62.1	-0.2	No
CA-3	G	61.1	61.8	0.7	No
CA-4	G	60.9	61.0	0.1	No
HWES	G	65.7	66.4	0.7	No
PHS	G	73.2	74.8	1.6	No
RMHP	G	71.1	71.7	0.6	No
LCTP	G	67.5	69.1	1.6	No

Summary: **CEQA Noise Assessment [Scenario 1, Case 2 – Case 1]**. The noise impact from the demolition and construction associated with the Revised Renewable Fuels Project will not represent a significant noise impact to the residential community provided the temporary noise barriers and equipment restrictions are implemented as described in Section ***5.0***.

Note: A project is considered to pose a significant impact on the community noise if the project causes the ambient noise level at the property line to either (**1**) increase the CNEL by 5 dBA or more or (**2**) increase the CNEL by 3 dBA and raise the CNEL into either the normally unacceptable or clearly unacceptable category. Refer to ***Section 4.15.0.***

Table 2-2 CEQA Noise Impact, Renewable Fuels Project Operation (Scenario 2, Case 3– Case 1)

Receptor	Floor	Operating Crude Refinery, Case 1	Revised Project Operation, Case 3	Difference, Case 3 - Case 1	Significant Impact?
SS-1	1st	73.0	73.8	0.8	No
SS-1	2nd	73.1	73.8	0.7	No
SS-1	3rd	73.4	74.0	0.6	No
SS-2	1st	71.7	72.8	1.1	No
SS-2	2nd	72.1	73.1	1.0	No
SS-2	3rd	72.4	73.5	1.1	No
SS-3	1st	70.4	72.4	2.0	No
SS-3	2nd	71.2	72.8	1.6	No
SS-3	3rd	71.6	73.3	1.7	No
SS-4	1st	69.7	71.1	1.4	No
SS-4	2nd	70.7	72.4	1.7	No
SS-4	3rd	71.0	72.8	1.8	No
SS-5	1st	70.9	71.6	0.7	No
SS-5	2nd	71.5	72.5	1.0	No
SS-5	3rd	71.8	72.8	1.0	No
SS-6	1st	70.9	72.0	1.1	No
SS-6	2nd	71.5	72.6	1.1	No
SS-6	3rd	71.7	72.9	1.2	No
MH-1	G	72.6	72.9	0.3	No
MH-2	G	70.7	71.1	0.4	No
MH-3	G	68.3	68.7	0.4	No
MH-4	G	65.6	67.2	1.6	No
MH-5	G	62.4	66.1	3.7	No
MH-6	G	62.1	63.8	1.7	No
MH-7	G	63.3	64.4	1.1	No
MH-8	G	63.7	66.0	2.3	No
CA-1	G	62.4	66.8	4.4	No
CA-2	G	62.3	64.5	2.2	No
CA-3	G	61.1	64.9	3.8	No
CA-4	G	60.9	61.8	0.9	No
HWES	G	65.7	65.4	-0.3	No
PHS	G	73.2	73.2	0.0	No
RMHP	G	71.1	72.8	1.7	No
LCTP	G	67.5	68.7	1.2	No

Summary: **CEQA Noise Assessment [Scenario 2, Case 3 – Case 1]**. The noise impact from the Revised Renewable Fuels Project (current design) will not represent a significant noise impact to the residential community.

Note: A project is considered to pose a significant impact on the community noise if the project causes the ambient noise level at the property line to either (**1**) increase the CNEL by 5 dBA or more or (**2**) increase the CNEL by 3 dBA and raise the CNEL into either the normally unacceptable or clearly unacceptable category. Refer to ***Section 4.1***.

Figure 2-3 Refinery Site Plan & PMC Sensitive Receptor Locations (Overview)

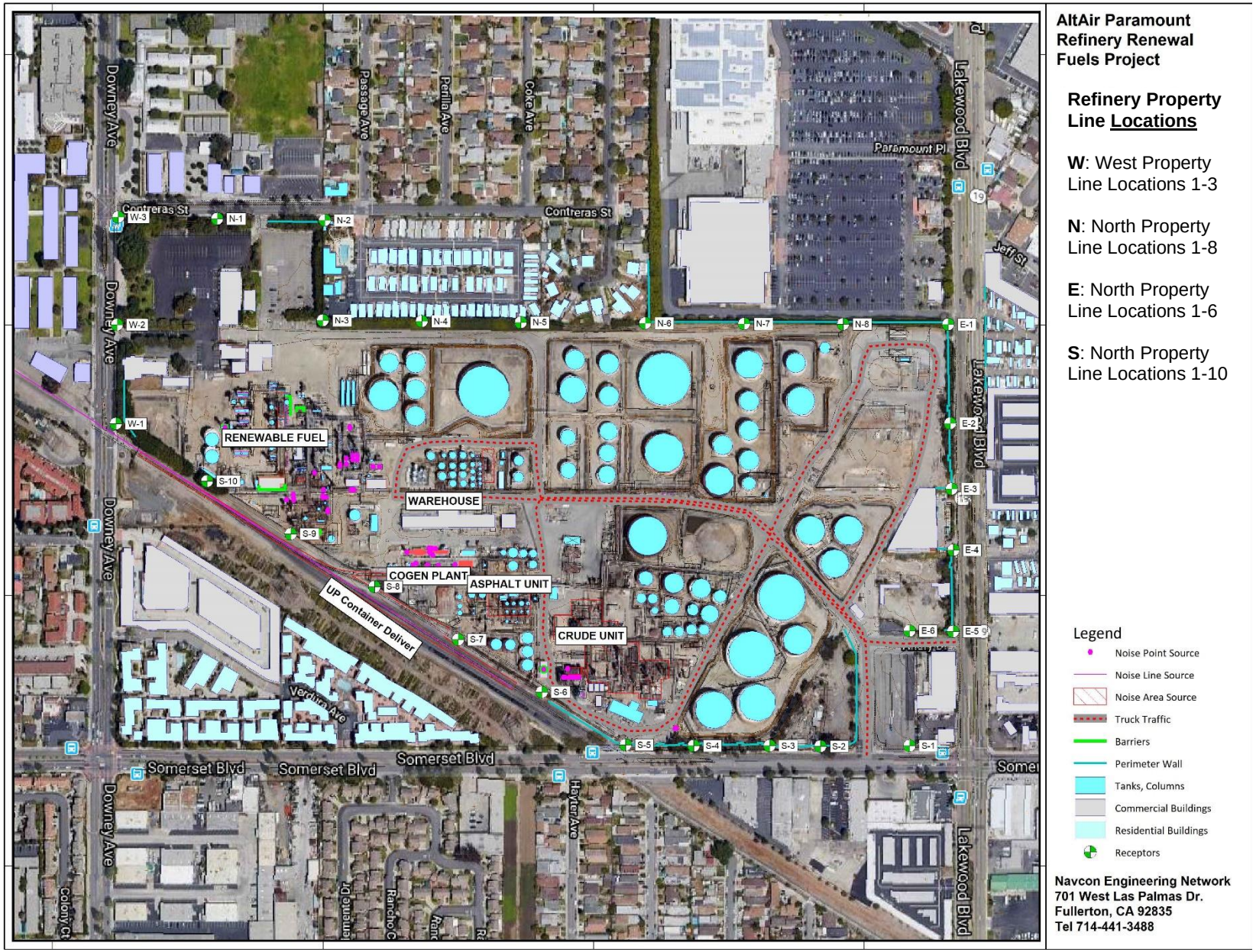


Table 2-3 PMC Noise Impact, Case 1 - Refinery Operating as a Crude Oil Refinery

Receiver	Case 1			Case 1		
	Daytime Limit	Daytime Leq max,hr	Exceed-ance	Nighttime Limit	Nighttime Leq max,hr	Exceed-ance
W-1	82	69.6	no	77	64.7	no
W-2	82	65.3	no	77	65.1	no
W-3	82	59.9	no	77	59.5	no
N-1	82	60.1	no	77	59.8	no
N-2	82	54.0	no	77	53.6	no
N-3	82	67.9	no	77	67.8	no
N-4	82	60.1	no	77	60.0	no
N-5	82	56.6	no	77	56.5	no
N-6	82	53.9	no	77	53.8	no
N-7	82	55.0	no	77	54.9	no
N-8	82	56.0	no	77	55.9	no
E-1	82	53.3	no	77	53.2	no
E-2	82	53.7	no	77	53.6	no
E-3	82	51.6	no	77	51.6	no
E-4	82	53.9	no	77	53.8	no
E-5	82	60.7	no	77	60.7	no
E-6	82	61.5	no	77	61.5	no
S-1	82	55.9	no	77	55.8	no
S-2	82	51.9	no	77	51.8	no
S-3	82	49.6	no	77	49.2	no
S-4	82	59.3	no	77	59.1	no
S-5	82	62.6	no	77	62.0	no
S-6	82	74.6	no	77	74.3	no
S-7	82	73.6	no	77	70.0	no
S-8	82	73.9	no	77	69.0	no
S-9	82	77.3	no	77	75.7	no
S-10	82	74.1	no	77	68.6	no

Summary: **PMC Noise Assessment [Case 1]**. The Paramount AltAir Refinery operating as a crude oil refinery (i.e., Case 1) is in conformance with the Paramount Municipal Code. The predicted max-hour noise levels and do not exceed the maximum permissible noise level.

Note: The Paramount AltAir Refinery is located in an Industrial Zone. The maximum permissible daytime noise level (6:00 am to 10 pm) is 82 dBA. The maximum permissible nighttime noise level (10:00 pm to 6 am) is 77 dBA. The PCM is discussed in ***Section 4.2***.

Table 2-4 PMC Noise Impact, Case 2 - Renewable Fuels Project plus the demolition and construction associated with the Revised Renewable Fuels Project

Receiver	Daytime Limit	Case 2 Daytime Leq max,hr	Exceed-ance	Nighttime Limit	Case 2 Nighttime Leq max,hr	Exceed-ance
W-1	82	74.7	no	77	68.3	no
W-2	82	70.6	no	77	66.1	no
W-3	82	67.4	no	77	60.4	no
N-1	82	65.0	no	77	59.5	no
N-2	82	58.8	no	77	53.1	no
N-3	82	69.4	no	77	58.0	no
N-4	82	59.1	no	77	52.5	no
N-5	82	58.8	no	77	49.1	no
N-6	82	64.1	no	77	45.0	no
N-7	82	72.6	no	77	56.4	no
N-8	82	74.9	no	77	48.2	no
E-1	82	65.7	no	77	45.9	no
E-2	82	66.8	no	77	51.8	no
E-3	82	69.6	no	77	48.8	no
E-4	82	68.5	no	77	47.3	no
E-5	82	70.1	no	77	54.0	no
E-6	82	69.6	no	77	54.4	no
S-1	82	66.2	no	77	51.0	no
S-2	82	63.1	no	77	47.4	no
S-3	82	59.6	no	77	44.6	no
S-4	82	61.9	no	77	52.8	no
S-5	82	67.0	no	77	57.2	no
S-6	82	79.4	no	77	69.4	no
S-7	82	81.6	no	77	70.7	no
S-8	82	78.4	no	77	68.2	no
S-9	82	78.4	no	77	75.7	no
S-10	82	77.1	no	77	68.7	no

Summary: **PMC Noise Assessment [Case 2]**. The Renewable Fuels Project plus the demolition and construction associated with the Revised Renewable Fuels Project is predicted to be in conformance with the Paramount Municipal Code and will not represent a significant noise impact to the residential community provided the temporary noise barriers and equipment restrictions are implemented as described in Section ***5.0***. The predicted max-hour noise levels and do not exceed the maximum permissible noise level.

Note: The Paramount AltAir Refinery is located in an Industrial Zone. The maximum permissible daytime noise level (6:00 am to 10 pm) is 82 dBA. The maximum permissible nighttime noise level (10:00 pm to 6 am) is 77 dBA. The PCM is discussed in ***Section 4.2***.

Table 2-5 PMC Noise Impact, Case 3 - Revised Renewable Fuels Project Operation

Receiver	Case 3 Daytime Limit	Case 3 Daytime Leq max,hr	Case 3 Exceed-ance	Case 3 Nighttime Limit	Case 3 Nighttime Leq max,hr	Case 3 Exceed-ance
W-1	82	70.6	no	77	67.0	no
W-2	82	65.3	no	77	65.1	no
W-3	82	60.7	no	77	60.4	no
N-1	82	60.5	no	77	60.1	no
N-2	82	54.1	no	77	53.6	no
N-3	82	68.4	no	77	68.3	no
N-4	82	61.5	no	77	61.3	no
N-5	82	59.2	no	77	59.1	no
N-6	82	56.1	no	77	56.0	no
N-7	82	58.2	no	77	58.1	no
N-8	82	63.0	no	77	63.0	no
E-1	82	60.9	no	77	60.9	no
E-2	82	61.1	no	77	61.1	no
E-3	82	57.5	no	77	57.5	no
E-4	82	58.4	no	77	58.4	no
E-5	82	64.9	no	77	64.9	no
E-6	82	66.6	no	77	66.6	no
S-1	82	61.0	no	77	61.0	no
S-2	82	57.0	no	77	57.0	no
S-3	82	52.4	no	77	52.2	no
S-4	82	56.1	no	77	55.5	no
S-5	82	60.3	no	77	58.8	no
S-6	82	71.8	no	77	70.9	no
S-7	82	75.8	no	77	71.4	no
S-8	82	77.3	no	77	69.6	no
S-9	82	77.7	no	77	75.8	no
S-10	82	74.8	no	77	69.0	no

Summary: **PMC Noise Assessment [Case 3]**. The Revised Renewable Fuels Project operation is predicted to be in conformance with the Paramount Municipal Code. The predicted max-hour noise levels and do not exceed the maximum permissible noise level.

Note: The Paramount AltAir Refinery is located in an Industrial Zone. The maximum permissible daytime noise level (6:00 am to 10 pm) is 82 dBA. The maximum permissible nighttime noise level (10:00 pm to 6 am) is 77 dBA. The PCM is discussed in ***Section 4.2***.

3.0 FUNDAMENTALS OF ACOUSTICS

Sound is what we hear, noise is unwanted sound. The difference between sound and noise depends upon the listener and the circumstances. Noise is frequently described as 'unwanted sound'. Environmental noise is defined as unwanted or harmful outdoor sound created by human activity such as noise emitted by means of transport, road traffic, rail traffic, air traffic, industrial activity, manufacturing activity, etc.

Numerous metrics have been developed to characterize noise in terms of its amplitude, amplitude weighting, frequency content, temporal variation, etc. Some of the more commonly used terms and metrics are described in ***Section 3.1*** and summarized in ***Table 3-1***.

The Renewable Fuels Project noise impact assessment included the development of 3D acoustical models (refer to ***Section 5.0***). The noise generated by refinery equipment, processes, activities, truck traffic, rail movements, etc. was propagated outward and into the surrounding community. The noise propagation is based upon a 'Source – Transmission Path – Receiver Model' as described in ***Section 3.2***.

3.1 Noise Terms

3.1.1 Decibel (dB)

The decibel (dB) is a unit used to express the intensity of a sound wave, equal to 20 times the common logarithm of the ratio of the pressure produced by the sound wave to a reference pressure, usually 20 micro-Pascals.

3.1.2 A-weighted Sound Pressure Level (dBA)

An important characteristic of sound is its frequency or "pitch". Humans can hear sound over a broad frequency range (at best 20 Hz to 20 kHz) however, subjectively they do not perceive the sound equally over the frequency range. To better correlate the objective measure of sound with the subjective response to sound an A-weighting, frequency-based filter is applied. The A-weighting filter simulates the frequency response of the human ear. The A-weighted Sound Pressure Level (dBA) is a common noise metric used in environmental noise assessments. Some typical A-weighted sound pressure levels are presented in ***Figure 3-1***.

3.1.3 Equivalent Sound Level (Leq)

Environmental noise often fluctuates over time. To be able to describe this in a practical manner the Equivalent Sound Level (Leq) was developed. Leq is the A-weighted steady sound level that contains the same total acoustical energy as the actual fluctuating sound level.

3.1.4 One-Hour Equivalent Noise Level (Leq h)

The one-hour equivalent noise level is a measure of noise intensity, which is the equivalent sound level (Leq) over a one-hour period. The Leq(h) is used in the calculation of the CNEL.

3.1.5 One-Hour Equivalent Noise Level (Leq max,hr)

The one-hour equivalent max-hour noise level is the maximum Leq for the loudest daytime hour and the loudest nighttime hour.

3.1.6 Statistical Noise Descriptors (Ln)

Statistical noise descriptors, also known as percentiles (Ln) are often used to characterize the temporal variations in noise. The L90 level is that level which is exceeded 90% of the time. The L50 level is that level which is exceeded 50% of the time. The L10 level is that level which is exceeded 10% of the time. Etc.

3.1.7 Community Noise Equivalent Level (CNEL)

Since the sensitivity to noise increases during the evening and at night, because excessive noise interferes with the ability to sleep, 24-hour descriptors have been developed that incorporate noise penalties added to quiet-time noise events. The Community Noise Equivalent Level (CNEL) is a measure of the cumulative noise exposure in a community, with a 5 dB penalty added to evening (7:00 pm - 10:00 pm) and a 10 dB addition to nighttime (10:00 pm - 7:00 am) noise levels. CNEL is expressed using the A-weighting frequency scale (i.e., dBA). The CEQA Guidelines thresholds of significance (refer to ***Section 4.0***) are based upon the CNEL noise metric.

3.1.8 Day Night Average Sound Level (Ldn)

The Day/Night average Sound Level (Ldn) is similar to the CNEL with the exception that there is no penalty for the evening hours. It is computed as the average equivalent sound level over a 24-hour period, with a 10 dB penalty added for noise during the nighttime hours (10:00 pm to 07:00 am).

3.1.9 Noise-sensitive receptors

Noise-sensitive receptors (also called “receivers”) are locations where people reside or where the presence of unwanted sound may adversely affect the use of the land. Noise-sensitive receptors typically include residences, hospitals, schools, guest lodgings, libraries, parks and certain types of passive recreational uses.

The effects of noise on people can be listed in three general categories.

- Subjective effects of annoyance, nuisance, dissatisfaction
- Interference with activities such as speech, sleep, learning
- Physiological effects such as startling and hearing loss

In most cases, effects from sounds typically found in the natural environment (compared to an industrial or an occupational setting) would be limited to the first two categories: creating an annoyance or interference with activities. No completely satisfactory method exists to measure the subjective effects of sound, or to measure the corresponding reactions of annoyance and dissatisfaction. This lack of a common standard arises primarily from the wide variation in individual thresholds of annoyance and habituation to sound. Therefore, an important way of determining a person’s subjective reaction to a new sound is by comparing it to the existing or “ambient” environment to which that person has adapted. In general, the more the level or tonal (frequency) variations of a sound exceed the previously existing ambient sound level or tonal quality, the less acceptable the new sound will be, as judged by the exposed individual.

Subjectively, the general response to changes in sound levels having similar frequency content follows the 3-5-10 dB rule.

- A 3-dB change in sound level is considered a barely noticeable difference.
- A 5-dB change in sound level is considered discernible, or readily noticeable.
- A 10-dB change in sound level is considered to be a doubling in loudness.

3.1.10 Sound Power Level

Sound power level is the acoustic energy emitted by a source which produces a sound pressure level at some distance. While the sound power level of a source is fixed, the sound pressure level depends upon the distance from the source and the acoustic characteristics of the area in which it is located.

Table 3-1 Definitions of Acoustical Terms

Term	Symbol	Definition
Decibel (dB)	dB	A unit describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20 micro Pascals.
Sound Pressure Level	Lp	Sound pressure is the sound force per unit area, usually expressed in micro Pascals (or micro Newtons per square meter), where 1 Pascal is the pressure resulting from a force of 1 Newton exerted over an area of 1 square meter. The sound pressure level is expressed in decibels as 20 times the logarithm to the base 10 of the ratio between the pressures exerted by the sound to a reference sound pressure (e.g., 20 micro Pascals in air). Sound pressure level is the quantity that is directly measured by a sound level meter.
Sound Power Level	Lw	Sound power level is the acoustic energy emitted by a source which produces a sound pressure level at some distance. While the sound power level of a source is fixed, the sound pressure level depends upon the distance from the source and the acoustic characteristics of the area in which it is located.
Frequency	Hz	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 and 20,000 Hz. Infrasonic sounds are below 20 Hz, and ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level	dBA	The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level	Leq	The average A-weighted noise level during the measurement period. The hourly Leq used for this report is denoted as dBA Leq(h).
Community Noise Equivalent Level	CNEL	The average A-weighted noise level during a 24-hour day, obtained after the addition of 5 dB to sound levels in the evening from 7 p.m. to 10 p.m. and after the addition of 10 dB to sound levels in the night between 10 p.m. and 7 a.m.
Day/Night Noise Level	Ldn	The average A-weighted noise level during a 24-hour day, obtained after the addition of 10 dB to levels measured in the night between 10 p.m. and 7 a.m.
Statistical Noise Descriptor	L1, L10, L50, L90	The A-weighted noise levels that are exceeded 1, 10, 50, and 90% of the time during the measurement period.
Ambient Noise Level		The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive		The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, time of occurrence, and tonal or informational content as well as the prevailing ambient noise level.

Figure 3-1 Typical Noise Levels in the Environment

Noise Level dBA	Extremes	Home Appliances	Speech at 3 Feet	Motor Vehicles at 50 Feet	General Type of Community Environment
	Jet aircraft at 500 feet				
		Chainsaw			
		Power lawnmower		Diesel truck (not muffled)	
		Shop tools	Shout	Diesel truck (muffled)	
		Blender	Loud voice	Automobile at 70 mph	Major metropolis
		Dishwasher	Normal voice	Automobile at 40 mph	Urban (daytime)
		Air conditioner	Normal voice (back to listener)	Automobile at 20 mph	Suburban (daytime)
		Refrigerator			Rural (daytime)
	Threshold of hearing				

Source: Harris Miller Miller & Hanson, Inc. 2003.
mph = miles per hour

3.2 Source – Transmission Path – Receiver Model

The conventional approach for conducting environmental noise impact analyses incorporates a "source – transmission path – receiver" model as shown in ***Figure 3-2***.

Figure 3-2 Source – Transmission Path – Receiver Model

Lp = Lw - Adir - Adiv - Aair - Agr - Ab - Aref - Amet - Amit

- **Lp** Sound Pressure Level at the receiver
- **Lw** Sound Power Level generated by the noise source
- **Adir** Attenuation due to the sound source directivity
- **Adiv** Attenuation due to the distance between the source and the receiver (referred to as Geometrical Spreading)
- **Aair** Attenuation due to air absorption
- **Agr** Attenuation due to ground effects (reflections and absorption)
- **Ab** Attenuation due to barriers, buildings, berms, ground terrain, etc.
- **Aref** Attenuation due to reflections
- **Amet** Attenuation due to meteorological effects
- **Amit** Attenuation due to mitigation areas such as forests, housing, etc.

Sound Sources: Sound sources are typically characterized in terms of their sound power level (Lw), frequency content, acoustic radiation pattern and the time/duration of operation. The source sound power can be determined by analysis or measured using a variety of methods including a reference sound power source, sound intensity, sound pressure or a reference sound pressure level. There are also numerous reference papers which list the sound power emission and frequency content for common sources. Sound sources are usually categorized as being point sources, line sources or area sources. Some examples of point sources include stationary construction equipment, stacks and flares, power generators, idling trucks, etc. The sound level from point sources attenuates (i.e., drops off) at a rate of 6 dBA for each doubling of distance. Some examples of line sources include arterial traffic, rail traffic, conveyor systems, roller coasters, etc. The sound level from line sources attenuates (or drops off) at a rate of 3 dBA for each doubling of distance. Some examples of area sources include sound in ducts, the side of a cooling tower, etc. The sound

attenuation for area sources depends upon a number of factors but typically varies between 0 dB and 6 dB per doubling of distance.

Sound Transmission Path: The sound transmission path describes the propagation of sound energy between the source and the receiver. As the sound propagates from the source to the receiver the acoustical energy is attenuated by various mechanisms (distance/geometrical spreading, air absorption, ground absorption, shielding of barriers, reflections, etc.). In some circumstances the transmission path can be measured but most often it is based upon a set of sound attenuation terms (Adir, Adiv, Aair, etc.). It is critical that the attenuation terms are consistent with the noise model. There are numerous national and international standards which describe consistent sound propagation algorithms (e.g., Traffic Noise Model, ISO 9613-1, ISO 9613-2, etc.). Combined with a calculation engine, these standards provide traceability for noise impact analysis.

Sound Receptor (also called Receivers): Sound receptors are the locations at which the project noise impact is predicted. Some sound receptors may be selected to be “noise-sensitive receptors”; they are locations where people reside or where the presence of unwanted sound may adversely affect the use of the land. Noise-sensitive receptors typically include residences, hospitals, schools, guest lodgings, libraries, and certain types of passive recreational uses. The project noise level predicted at noise-sensitive receptors is compared with the project’s “Thresholds of Significance” to determine whether a noise impact would be significant.

4.0 APPLICABLE NOISE REGULATIONS

4.1 California Environmental Quality Act (CEQA)

For purposes of this analysis, a project is considered to pose a significant impact on the community if the project causes the ambient noise level at the property line to either (**1**) increase the CNEL by 5 dBA or more or (**2**) increase the CNEL by 3 dBA and raise the CNEL into either the normally unacceptable or clearly unacceptable category. The CNEL Acceptable/Unacceptable ranges are presented in ***Table 4-1***.

Table 4-1 CNEL Acceptable/Unacceptable Ranges[4]

Land Use	Ambient Community Noise Exposure Level [CNEL, dBA]		
	Normally/Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Single-family, duplex, mobile homes, multi-family homes	50 - 70	70 - 75	Above 75
Schools, libraries, churches, hospitals, nursing homes, motels, hotels	50 - 70	70 - 80	Above 80
Auditoriums, concert halls, amphitheatres	50 - 70	- - -	Above 65
Sports arenas, outdoor spectator sports	50 - 75	- - -	Above 70
Playgrounds, neighborhood parks	50 - 70	67 - 75	Above 72
Golf courses, riding stables, water recreation, cemeteries	50 - 75	70 - 80	Above 80
Office buildings, business and professional commercial	50 - 77	Above 75	- - -
Industrial, manufacturing, utilities, and agriculture	50 - 80	Above 75	- - -

Normally Acceptable*: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.*

Conditionally Acceptable*: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.*

Normally Unacceptable*: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.*

Clearly Unacceptable*: New construction or development should generally not be undertaken.*

[4] Source: California General Plan Guidelines, Appendix D – Guidelines for the Preparation and Content of the Noise Element of the General Plan, Office of Planning and Research, 2017 (OPR, 2017). The City of Paramount's Noise and Land Use Compatibility Guidelines were last updated in 2007 and were based on California's Guidelines for the Preparation and Content of Noise Elements of General Plans that were in effect at the time. Because the State's General Plan Guidelines were updated in 2017, the updated 2017 Guidelines are used to determine land use compatibility in this noise analysis.

4.2 Paramount Municipal Code (PMC)

The Paramount Municipal Code (PMC), Chapter 9.12 describes the City noise policies as related to public health, welfare and safety and contrary to public interest. The Chapter includes noise definitions, monitoring procedures, prohibited types of noise, violations, injunctions, enforcement, etc. Section 9.12.040, “Noise Performance Standards” specifies the maximum daytime (6:00 am to 10:00 pm) and maximum nighttime (10:00 pm to 6:00 am) noise level within each City zone. The Paramount AltAir Refinery is located in an Industrial Zone. The maximum daytime noise level is 82 dBA and the maximum nighttime noise level is 77 dBA as measured on the refinery property line.

5.0 THREE-DIMENSIONAL NOISE MODELS

Three-dimensional (3D) acoustical noise models were developed using the noise modeling software, SoundPLAN. SoundPLAN is a standards-based program with more than fifty national and international noise modeling guidelines. The program is used primarily for environmental noise impact assessments (such as CEQA), noise planning and noise control.

Noise models were created for the three cases listed below. Local arterial traffic along Downey Ave., Somerset Blvd. and Lakewood Blvd (East, South & West of the refinery respectfully) were included in the noise models used for CEQA assessments since traffic noise is also a significant contributor to the community noise impact. The arterial traffic was not included in the noise models for the PMC assessment since the objective was to determine whether or not the noise generated from the refinery is in conformance with the City's property line noise standard.

Case 1. The Refinery operating as a crude oil refinery (referred to as Operating Crude Refinery).

- CEQA Noise Model; refer to ***Figure 5-1*** & ***Figure 5-2***
- PMC Noise Model; refer to ***Figure 5-3*** & ***Figure 5-4***

Case 2. The Renewable Fuels Project plus the demolition and construction associated with the Revised Renewable Fuels Project.

- CEQA Noise Model; refer to ***Figure 5-5*** & ***Figure 5-6***
- PMC Noise Model; refer to ***Figure 5-7*** & ***Figure 5-8***

Case 3. The Revised Renewable Fuels Project Operation (Revised Project).

- CEQA Noise Model; refer to ***Figure 5-9*** & ***Figure 5-10***
- PMC Noise Model; refer to ***Figure 5-11*** & ***Figure 5-12***

Noise Sources: Approximately 170 noise sources (motors, pumps, compressors, fin fans, heat exchangers, cooling towers, etc.) were included in the 3D models. The sound power emission levels were specified in the octave bands centered between 31.5 Hz and 8 kHz. The power levels were based upon manufacturer supplied data, test data from previous projects, and equipment specifications (e.g., 85 dBA at 3').

- The noise emission from the rail switch engine, Union Pacific train delivery/pickup and rail cars bumping was calculated from field tests conducted by Navcon Engineering.

- The noise emission from trucks and busses within the refinery was based upon the FHWA Traffic Noise Model (TNM).
- The noise emission from the Renewable Fuels Unit A (approximately 90 noise sources) was based upon measurements made by Navcon in 2004 as well as manufacturer supplied data.
- The Crude Unit, Asphalt Plant and Cogen Plant were modeled as area sources. The noise emission was based upon in-plant and community noise measurements made between 1976 and 2004. Area sound power levels were established such that noise levels predicted at the community receptor locations agreed with the measurement.
- The noise emission from each of the seven construction zones was based upon 10 pieces of construction equipment operating 40% of the time with reference sound pressure levels ranging between 70 dBA and 85 dBA as measured at 50 ft. It was assumed that construction would be occurring simultaneously in all seven zones resulting in a 'conservative' noise impact assessment. FTA, 2018. Transit Noise and vibration Impact Assessment Manual. September 2018. Available at: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf.
- The noise emission from the Renewable Fuels Unit B, Pre-Treat Centrifuges Hydrogen Plant, PSA Unit and Propane Recovery Process was based upon equipment noise levels of 85 dBA measured at 3 ft., which is the current design basis noise levels from the equipment.

The sound power levels for the three cases are summarized in ***Table 5-1***.

- In **Case 1**, the Asphalt Plant and Crude Unit were modeled as area sources with a sound pressure level of 85 dBA spread over the plant areas.
- The **Case 2** noise model includes seven construction zones. It was assumed that during the daytime (7 am to 7 pm) there will be up to 175 pieces of equipment spread-out evenly over the seven construction zones (i.e., 25 pieces of equipment per zone) with an area sound power of 124 dBA per zone. It was also assumed that the nighttime construction (7 pm to 7 am) would be limited to four construction zones (Hydrogen Plant, Unit B, Centrifuges and Control Room) each with an area sound power emission level of 113 dBA.

The daytime sound power emission for each of the seven construction/demolition zones is 124 dBA and is based upon 25 pieces of equipment with the following levels and usage.

Lp [dBA] at 50'	Lw [dBA]	# of Equipment	Usage %	Sound Power, Lw [dBA]
85	116.7	10	40%	122.7
80	111.7	6	40%	115.5
75	106.7	6	40%	110.5
70	101.7	3	40%	102.5
	Total	**25**	**Lw total**	**123.7**

The nighttime sound power emission for each of the four construction/demolition zones is 113 dBA and based upon 11 pieces of equipment with the following levels and usage.

Lp [dBA] at 50'	Lw [dBA]	Equipment	Usage %	Sound Power, Lw [dBA]
85	116.7	0	40%	
80	111.7	1	40%	107.7
75	106.7	7	40%	111.1
70	101.7	3	40%	102.5
	Total	**11**	**Lw total**	**113.1**

- The Cogen plant structures were included in all three noise models but the plant was not assumed to be operating during Cases 2 & 3.

The noise generated from the arterial traffic along Downey Ave., Somerset Blvd. and Lakewood Blvd (East, South & West of the refinery respectfully) were included in the noise models for the CEQA assessments. The vehicle noise emission was computed using the Federal Highway Administration (FHWA) Traffic Noise Model (TNM) based upon the 2011 Average Daily Traffic (ADT)[5]. The daytime (7:00 am to 7:00 pm), evening (7:00 pm to 10:00 pm) and nighttime (10:00 pm to 7:00 am) traffic volume was set at 77% of ADT, 13% of ADT and 10% of ADT respectively. The vehicle mix for cars, medium tracks and heavy trucks was assumed to be 96%, 2% and 2% respectfully. The average vehicle speed was set at 40 mph.

Road Section	Average Daily Traffic (2011)
Lakewood Blvd. North of Somerset Blvd.	26003
Lakewood Blvd. South Somerset Blvd.	23510
Somerset West of Lakewood Blvd.	13346
Somerset East of Lakewood Blvd.	14363
Downey Ave. North of Somerset Blvd.	13709
Downey Ave. South of Somerset Blvd.	13842
Somerset West of Downey Ave.	14895
Somerset East of Downey Ave.	13891

[5] The traffic data (ADT, vehicle mix, vehicle speed, etc. was provided by Iteris, Inc., Santa Ana, CA.

Project Noise Control: Noise reduction measures are designed into the Revised Renewable Fuels Project to assure that the CNEL noise impact from the construction (*Case 2*) and operation (*Case 3*) will be less than the CEQA thresholds of significance and will not represent a significant noise impact to the residential community (refer to ***Section 2.0***, ***Table 2-1*** and ***Table 2-2)***. The noise reduction measures are assumed to include the following (or equivalent measures that achieve similar noise reductions):

- Case 2 – three 16 ft. temporary noise barriers on North, North-East & East property lines
- Case 3 - a 16.5 ft. noise barrier[6] around the PSA Unit,
- Case 3 - 13 ft. Hydrogen Plant Induced Draft Fan and Forced Draft Fan noise barriers,
- Case 3 - 13 ft. Hydrogen Plant compressor noise barriers (370 A/B and Feed/Product A/B),
- Case 3 - a Hydrogen Plant stack acoustical silencer[7] with an Insertion loss of 15 dB or more,
- Case 3 - acoustical lagging[8] treatment on the PSA manifolds and piping, and
- 13 ft. Plant B compressor noise barriers (C-270 A/B/C, C-301 and C-351).

Detailed engineering design for the components of the revised project is currently underway. The above noise reduction measures are expected to reduce noise to acceptable levels based on preliminary engineering design information. The noise reduction measures are expected to be refined as more detailed engineering is complete. The above or equivalent noise measures are expected to be required to minimize noise impacts from the project.

Noise Prediction Standard: The noise model predictions were made using the algorithms and methods described in the following noise prediction standards.

- ISO 9613-1, Acoustics - Attenuation of sound during propagation outdoors - Part 1: Calculation of the absorption of sound by the atmosphere
- ISO 9613-2, Acoustics -- Attenuation of sound during propagation outdoors - Part 2, Acoustics - Attenuation of Sound During Propagation Outdoors
- Federal Highway Administration (FHWA) Traffic Noise Model (TNM) v2.5 as implemented in SoundPLAN.

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6 A noise barrier, also called a soundwall, noise wall, sound berm, sound barrier, or acoustical barrier is typically constructed of masonry, steel, concrete, wood, plastics, composites, etc. The design must provide a sound transmission loss of at least 20 dBA.

7 Acoustical silencers are used to reduce the sound radiated from stacks, ducts, pipes, etc. They are typically mounted at the discharge end. The insertion loss is the reduction in noise level with the installation.

8 Acoustical lagging is a flexible sound reduction wrap used to reduce the sound radiated from noisy pipes. It is typically a three-part laminate made up of an isolating layer, heavy mass layer and outer shell barrier.

All acoustically significant structures were modeled as reflective surfaces and also as diffractive bodies. The refinery ground was defined as a totally reflective surface (i.e., G=0). The ground outside the refinery was defined as 50% reflective (i.e., G=0.5). The noise sources are shown as red spheres (point sources), red lines (line sources) and purple surfaces (area sources). The calculations were run with an air pressure of 1013 mbar (~29.9 inHg), a relative humidity of 50% and a temperature of 20 ºC (i.e., 68 ºF).

The CNEL predictions at the sensitive receptor locations are listed in ***Table 2-1*** (Scenario 1; Case 2 – Case 1), ***Table 2-2*** (Scenario 2; Case 3 – Case 1).

CNEL 'Contour' Maps were developed for each case (i.e., Case1, 2 & 3). CNEL 'Difference" Maps were developed by arithmetically subtracting the "Contour' Maps. The map legends describe the noise model objects and the color contour scale.

- ***Noise Map 5-1*** Case 1 CNEL Operating Crude Refinery
- ***Noise Map 5-2*** Case 2 CNEL Renewable Fuels Project + Revised Renewable Project Demolition/Construction
- ***Difference Map 5-1*** Case 2 – Case 1 CNEL Noise Impact from the Demolition/Construction of Revised Fuels Project
- ***Noise Map 5-3*** Case 3 CNEL Revised Renewable Fuels Project Operation
- ***Difference Map 5-2*** Case 3 – Case 1 CNEL Noise Impact from the Revised Fuels Project

The Leq max,hr daytime and nighttime predictions at the sensitive receptor locations are listed in ***Table 2-3*** (Case 1), ***Table 2-4*** (Case 2) and ***Table 2-5*** (Case 3).

Leq max,hr 'Contour' Maps were developed for each case (i.e., Case1, 2 & 3) for the daytime period (6:00 am to 10:00 pm) and for the nighttime period (10:00 pm to 6:00 am).

- ***Noise Map 5-4*** Case 1 PMC Leq max,hr Daytime Operating Crude Refinery
- **Noise Map 5-5** Case 1 PMC Leq max,hr Nighttime Operating Crude Refinery
- ***Noise Map 5 6*** Case 2 PMC Leq max,hr Daytime Renewable Fuels Project + Revised Renewable Project Demolition/Construction
- ***Noise Map 5-7*** Case 2 PMC Leq max,hr Nighttime Renewable Fuels Project + Revised Renewable Project Demolition/Construction
- ***Noise Map 5-8*** Case 3 PMC Leq max,hr Daytime Operating Crude Refinery
- ***Noise Map 5-9*** Case 3 PMC Leq max,hr Nighttime Operating Crude Refinery

Figure 5-1 Case 1 CEQA Assessment Operating Crude Refinery Noise Model – Plan View

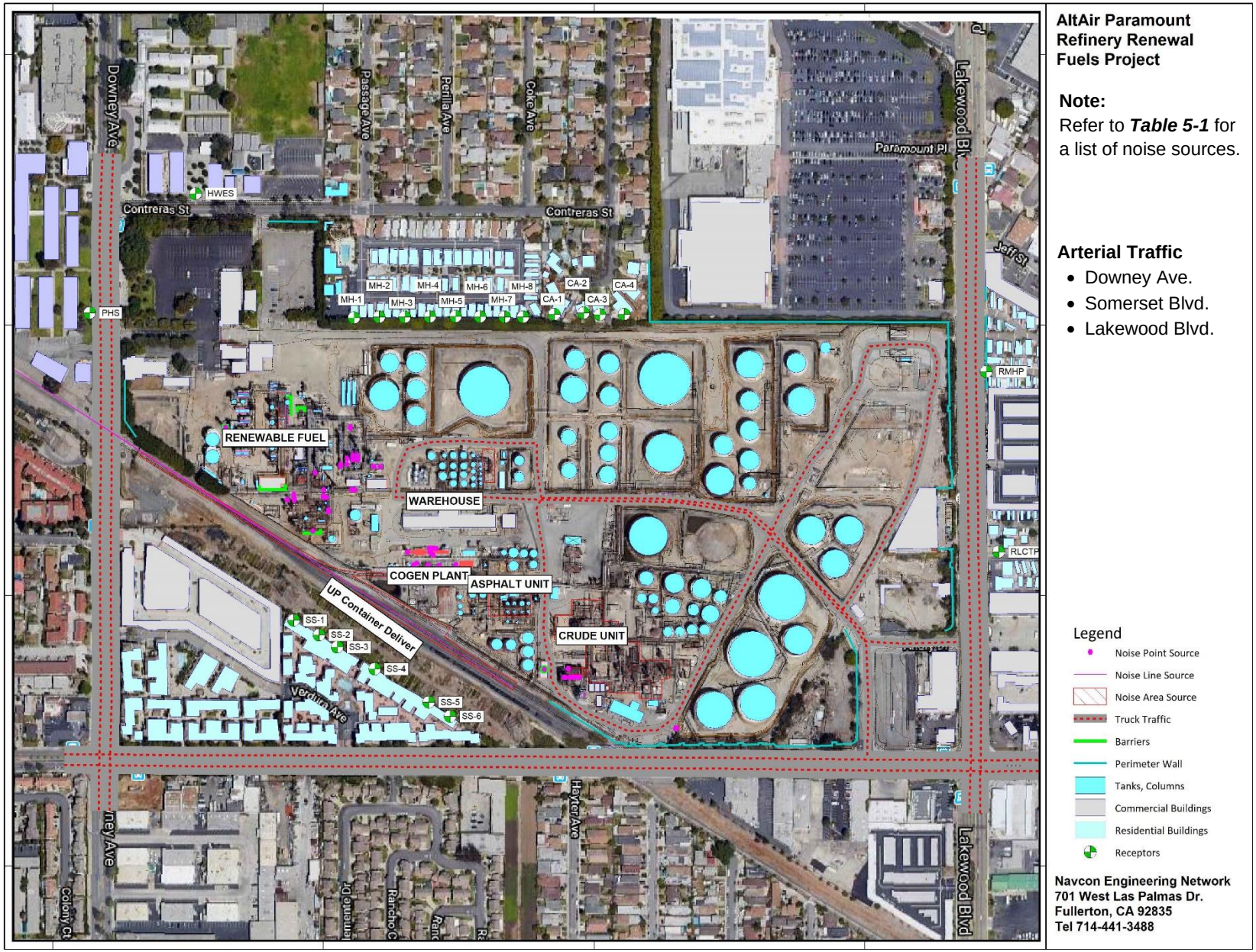


Figure 5-2 Case 1 CEQA Assessment Operating Crude Refinery Noise Model – Plan View – 3D Views

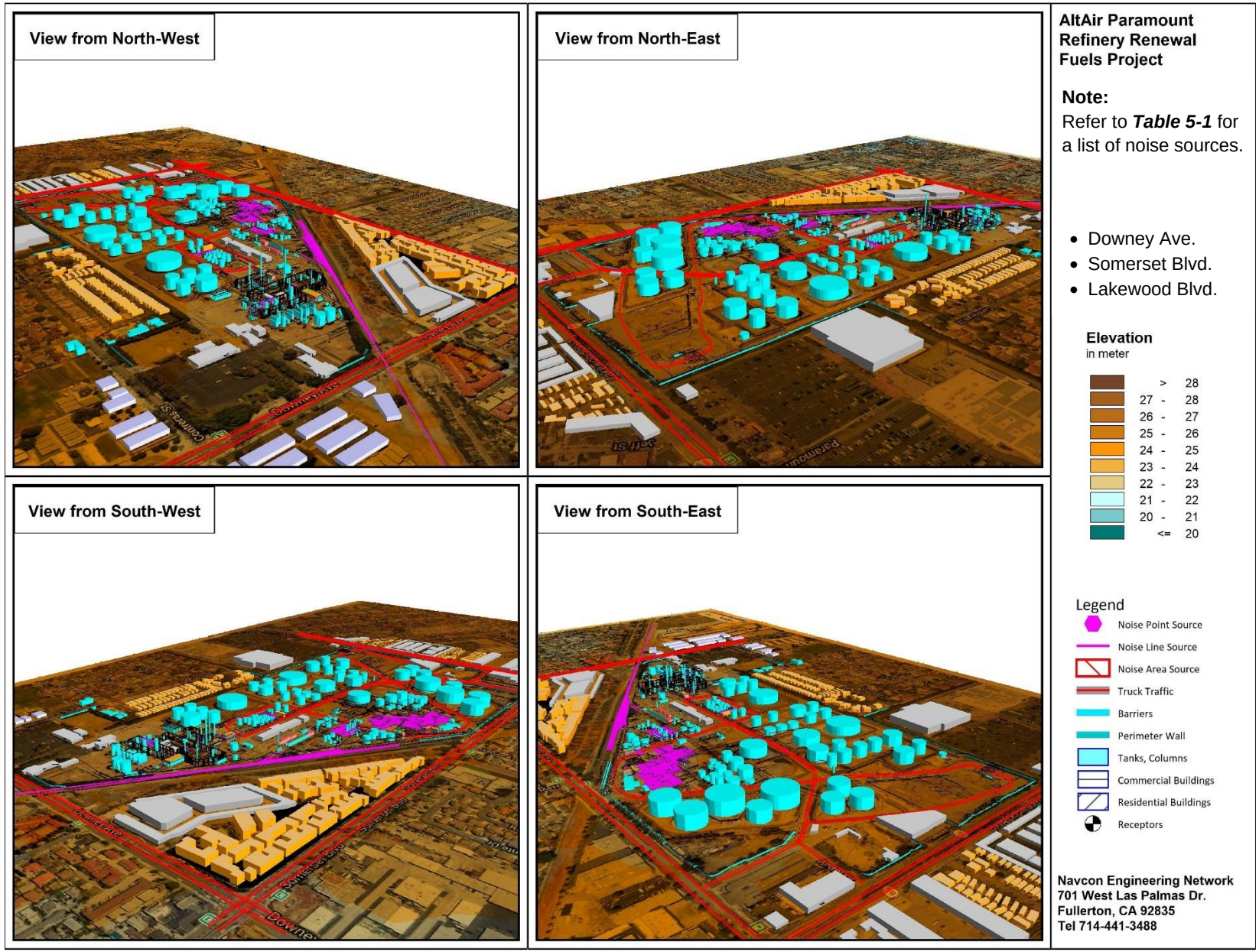


Figure 5-3 Case 1 PMC Assessment Operating Crude Refinery Noise Model – Plan View

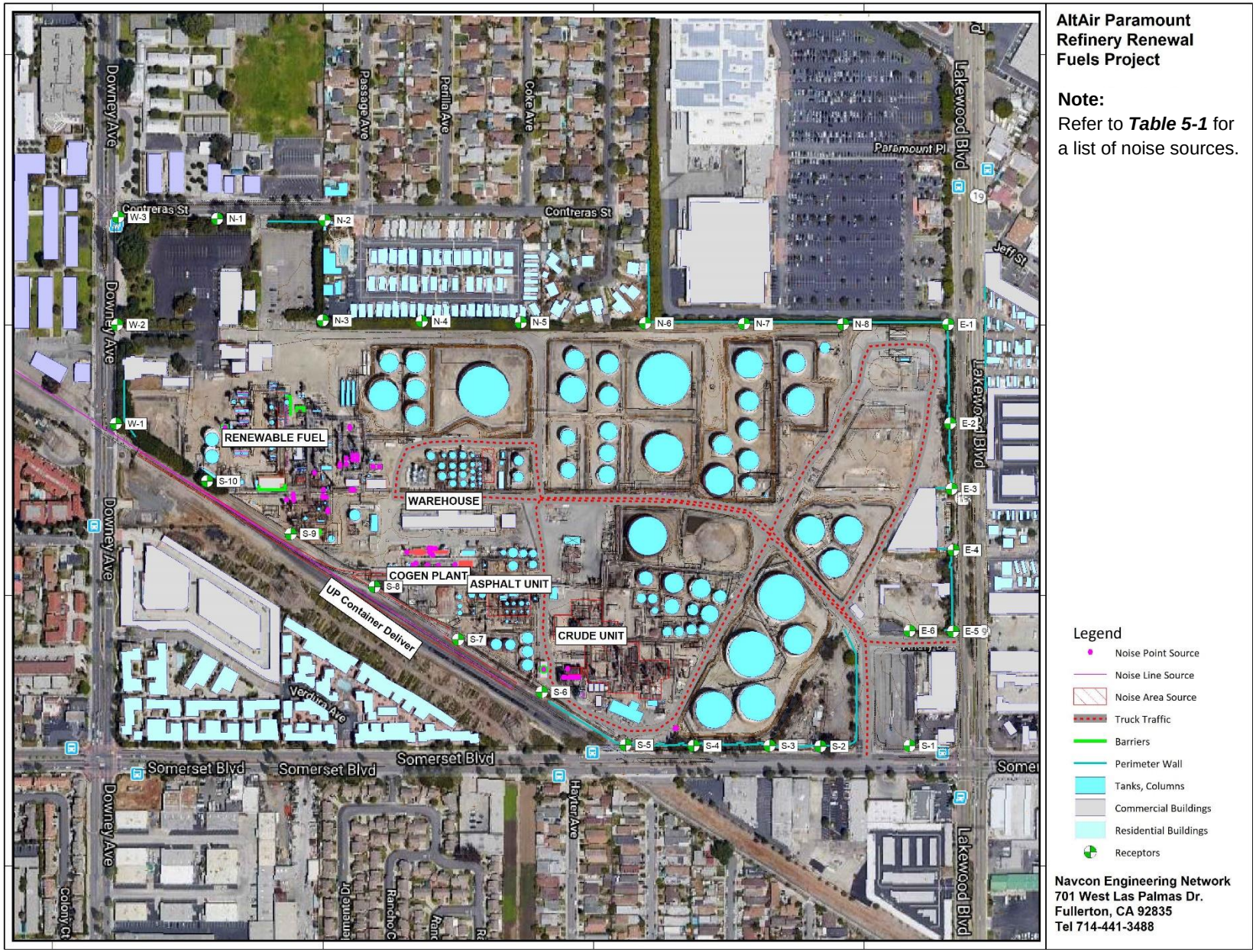


Figure 5-4 Case 1 PMC Assessment Operating Crude Refinery Noise Model – Plan View – 3D Views

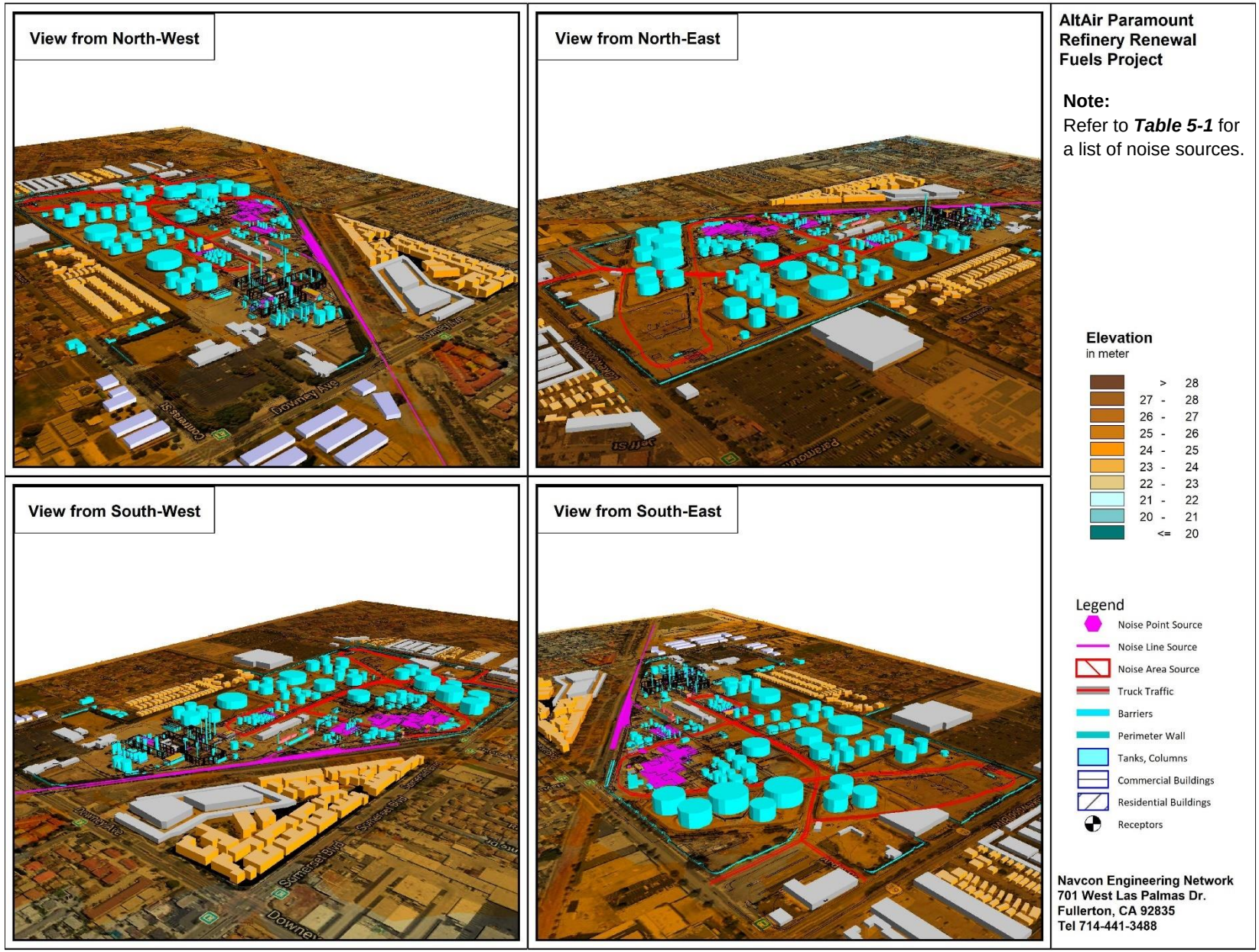
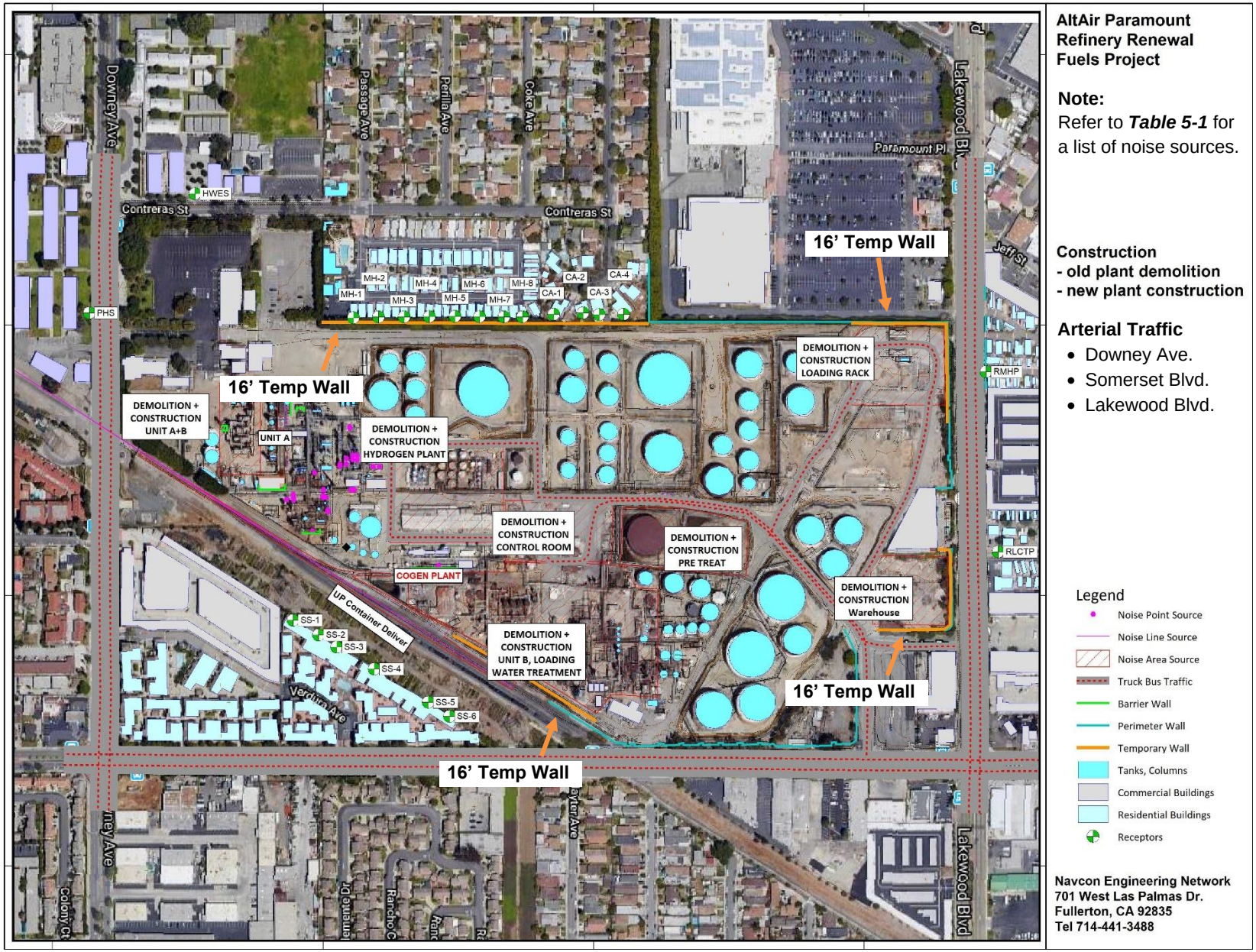


Figure 5-5 Case 2 CEQA Renewable Fuels Project + Construction/Demolition Noise Model – Plan View



AltAir Paramount Refinery Renewal Fuels Project

Note:
Refer to ***Table 5-1*** for a list of noise sources.

Construction
- old plant demolition
- new plant construction

Arterial Traffic

- Downey Ave.
- Somerset Blvd.
- Lakewood Blvd.

Legend

- Noise Point Source
- Noise Line Source
- Noise Area Source
- Truck Bus Traffic
- Barrier Wall
- Perimeter Wall
- Temporary Wall
- Tanks, Columns
- Commercial Buildings
- Residential Buildings
- Receptors

Navcon Engineering Network
701 West Las Palmas Dr.
Fullerton, CA 92835
Tel 714-441-3488

Figure 5-6 Case 2 CEQA Renewable Fuels Project + Construction/Demolition Noise Model – 3D Views

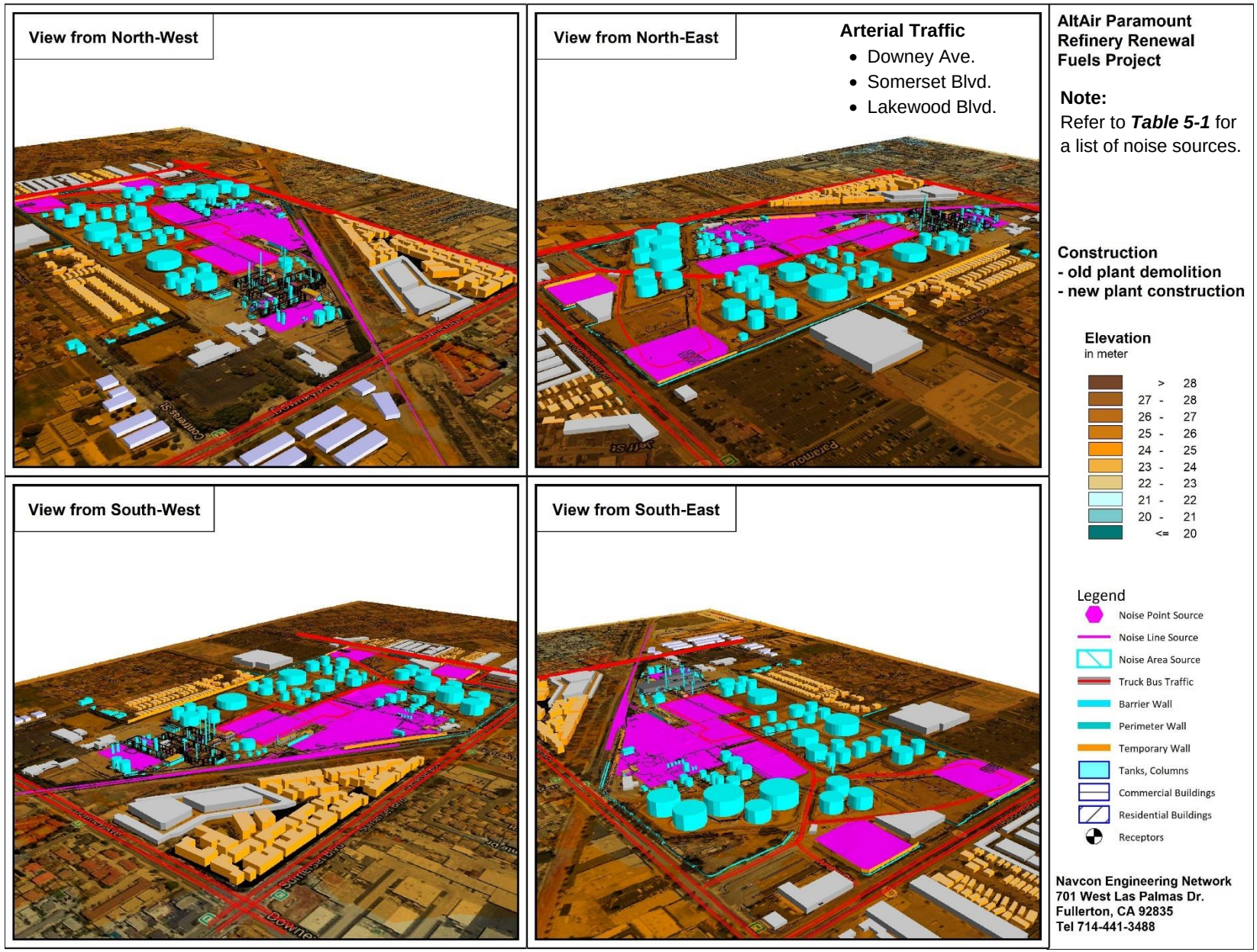


Figure 5-7 Case 2 PMC Renewable Fuels Project + Construction/Demolition Noise Model – Plan View

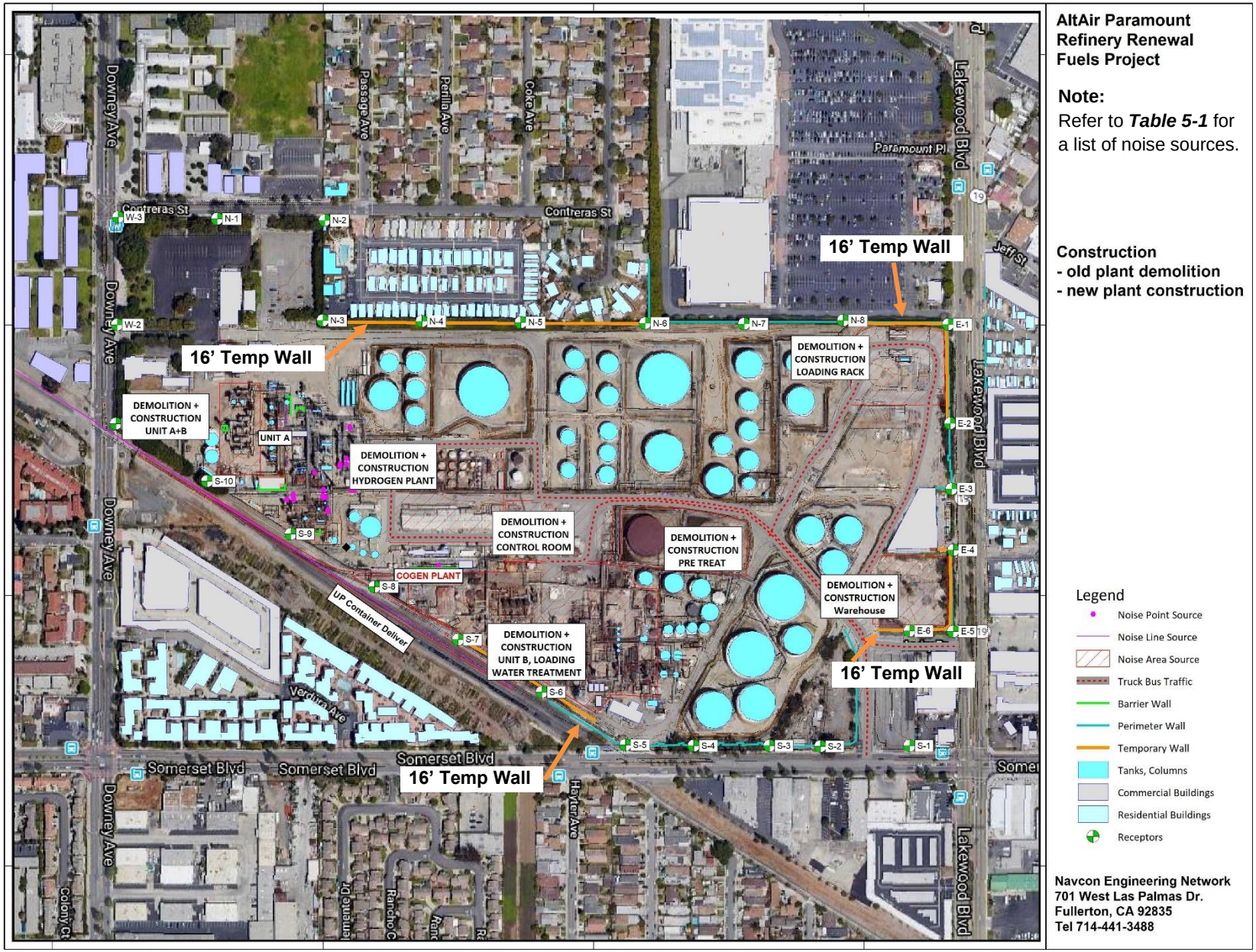


Figure 5-8 Case 2 PMC Renewable Fuels Project + Construction/Demolition Noise Model – 3D Views

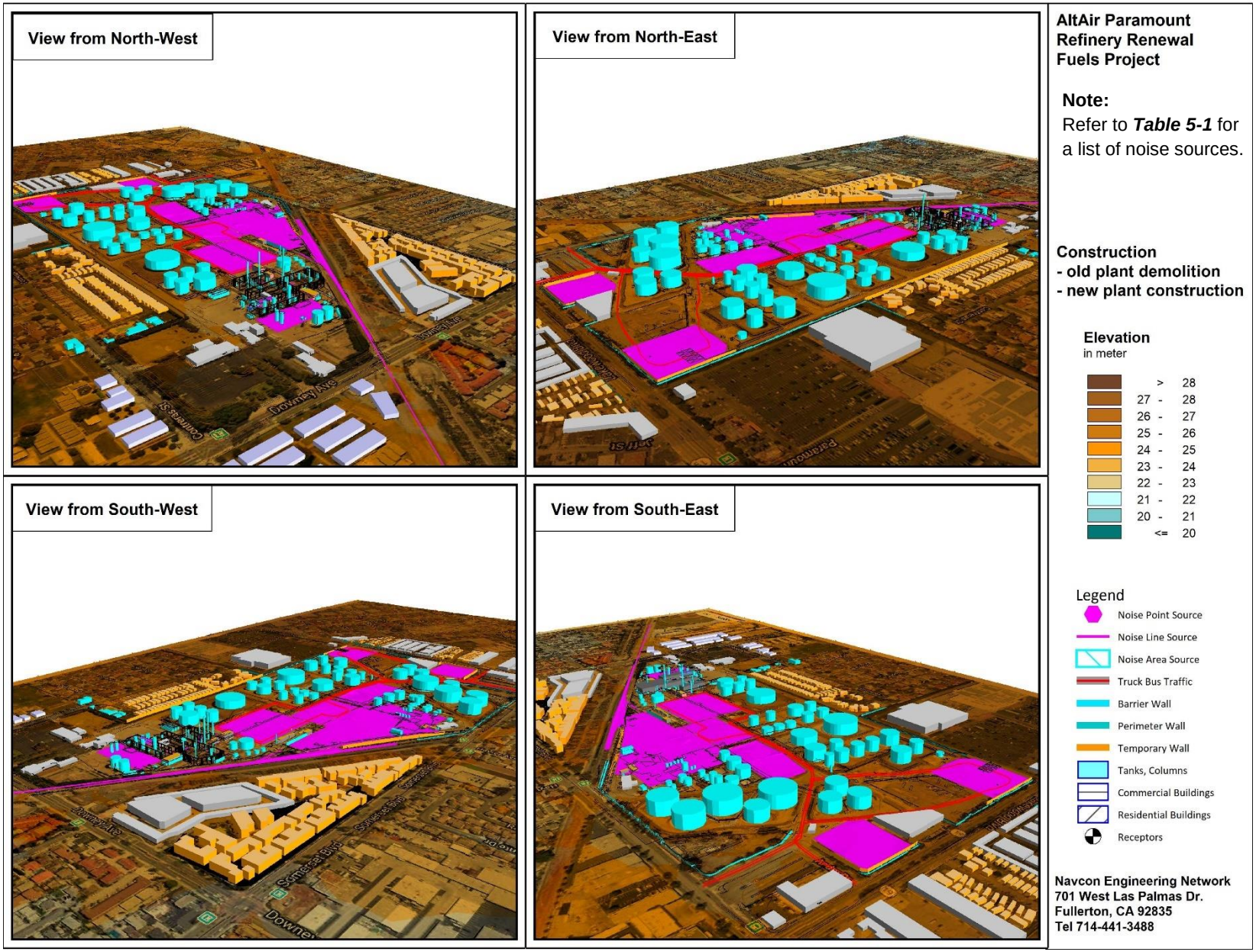


Figure 5-9 Case 3 CEQA Revised Renewable Fuels Project Noise Model – Plan View

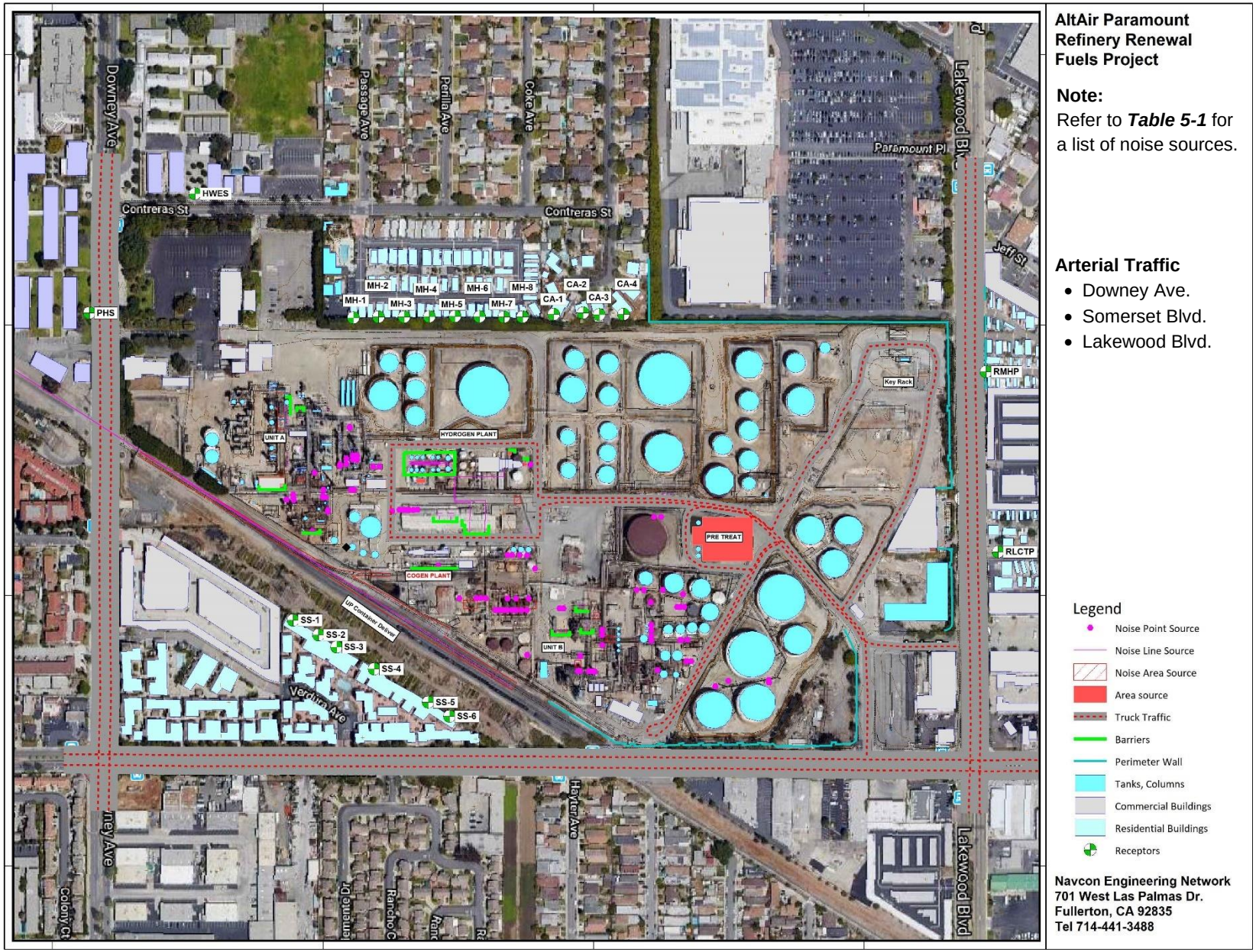


Figure 5-10 Case 3 CEQA Revised Renewable Fuels Project Noise Model – 3D Views

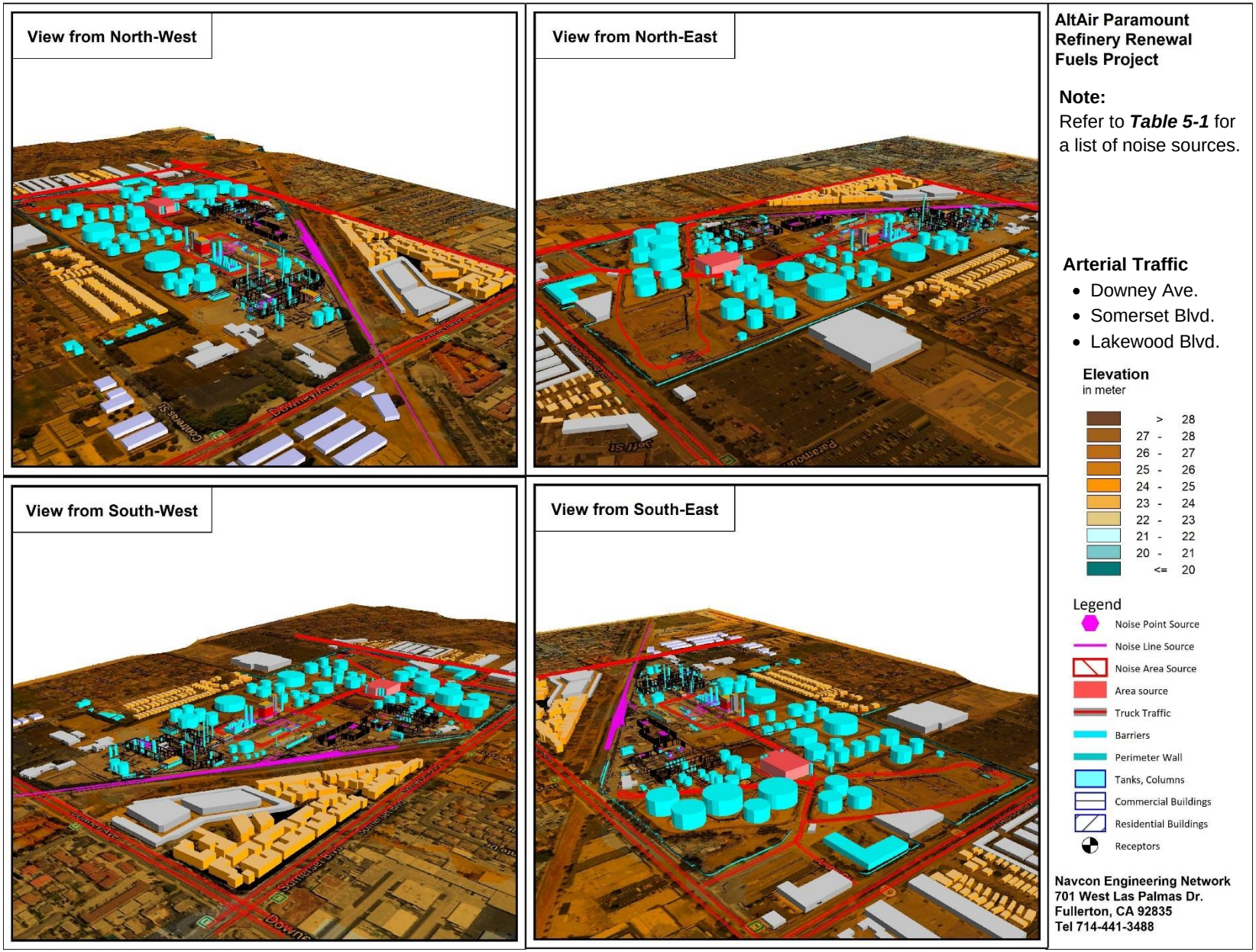


Figure 5-11 Case 3 PMC Revised Renewable Fuels Project Noise Model – Plan View

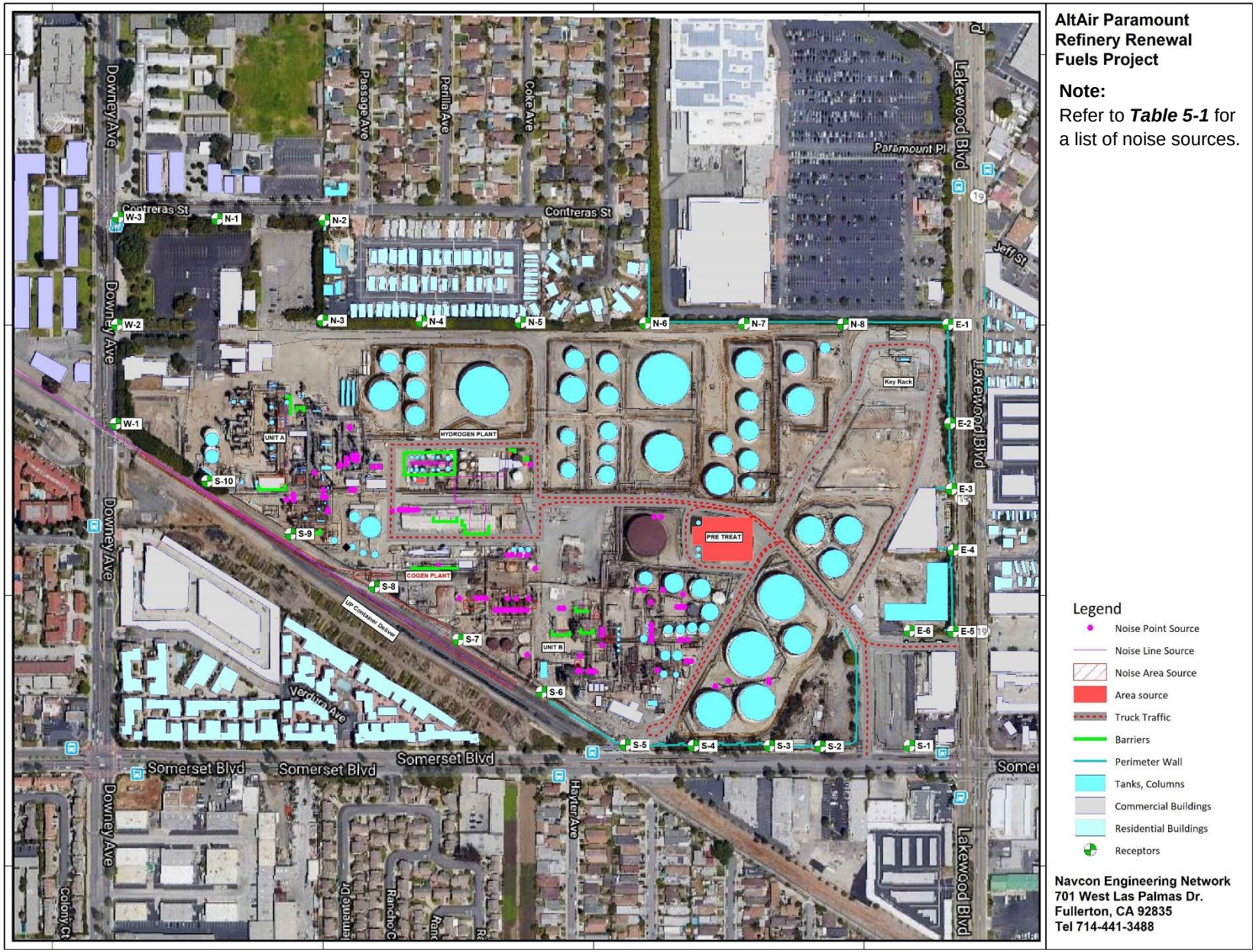


Figure 5-12 Case 3 PMC Revised Renewable Fuels Project Noise Model – 3D Views

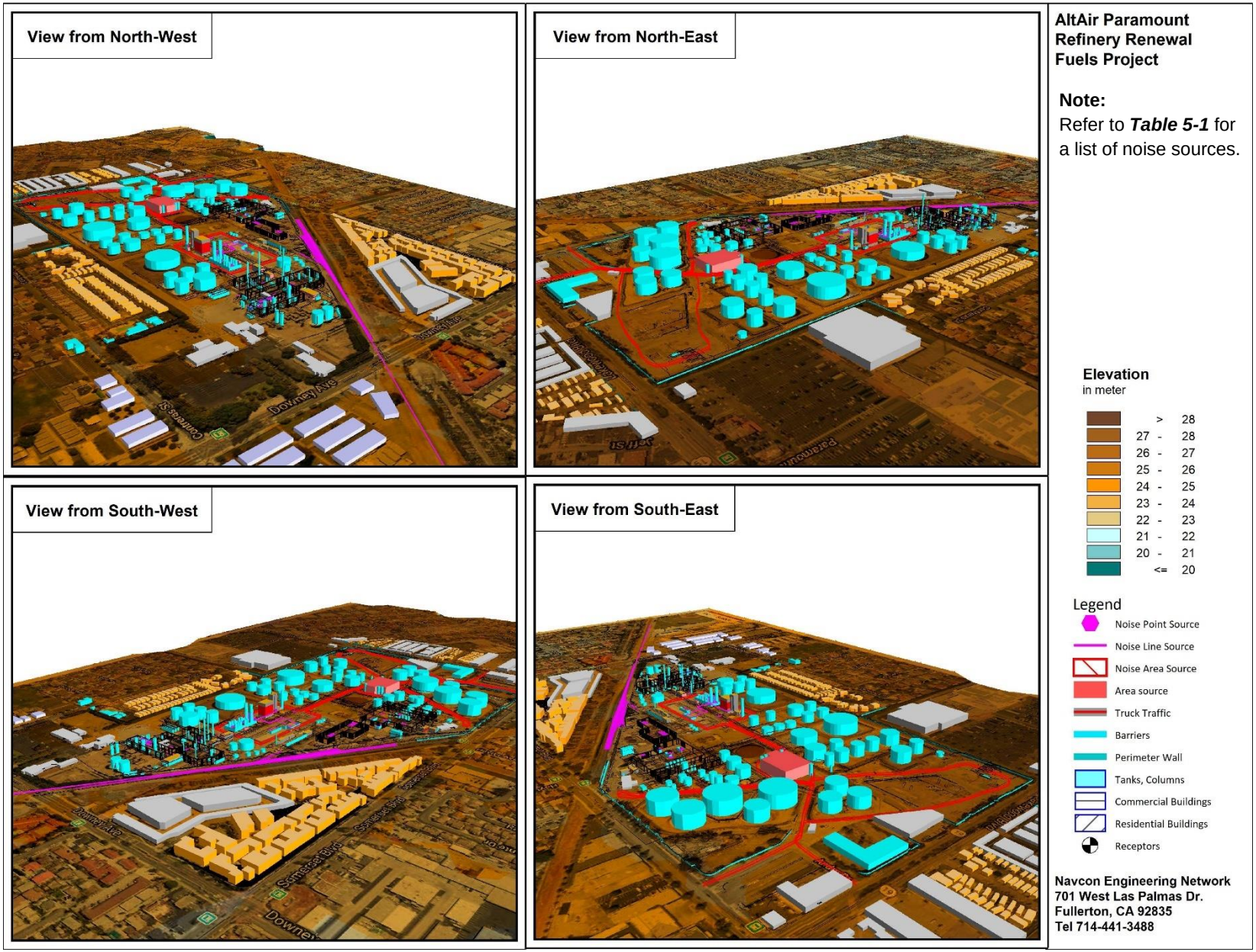


Table 5-1 Sound Power Emission Level Summary

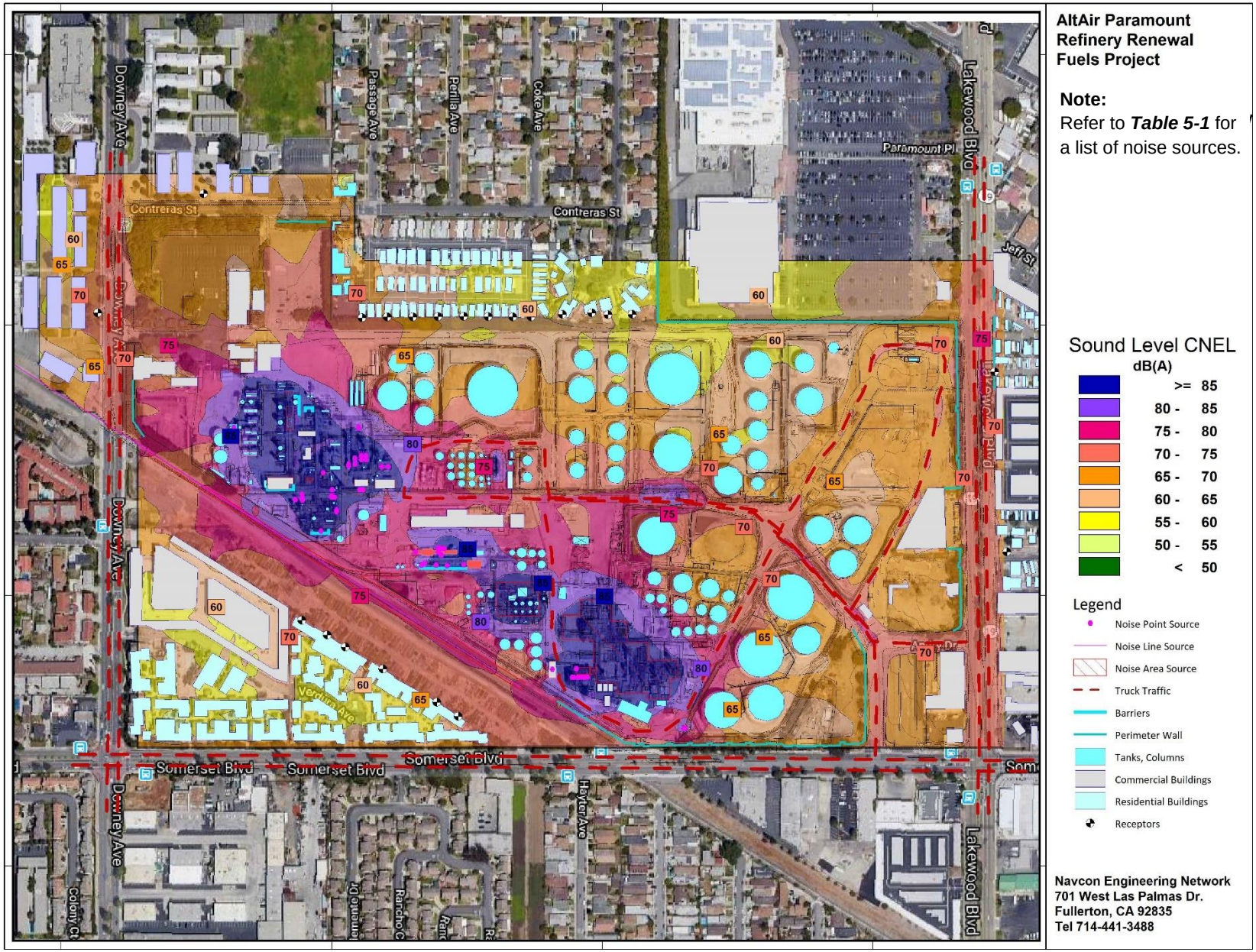
Case 1, Operating Crude Refinery			Sound Power Lw [dBA]	
ID	**Noise Source**	**Notes**	**7 am - 7 pm**	**7 pm - 7 am**
1	Rail Switch Engine	2 hrs. operation per day	109	- - -
2	Union Pacific Train Delivery/Pickup	1-train with 33 cars	112	- - -
3	Rail Cars Bumping (1-train w/ 33 cars)	6 impacts/day, 2 sec/impact	135	- - -
4	156 Trucks/24 Hours (max speed = 5 mph)	Day = 78, Evening = 19.5, Night = 58.5	TNM	TNM
5	Crude Unit	24/7 operation	118	
6	Asphalt Unit	24/7 operation	114	
7	Cogen Plant	24/7 operation	111	
8	Clean Fuel Unit	24/7 operation	124	

Case 2, Renewable Fuels Project + Revised Project Demolition & Construction			Sound Power Lw [dBA]	
ID	**Noise Source**	**Notes**	**7 am - 7 pm**	**7 pm - 7 am**
1	Rail Switch Engine	2 hrs. operation per day	109	- - -
2	Union Pacific Train Delivery/Pickup	1-train with 33 cars	112	- - -
3	Rail Cars Bumping (1-train w/ 33 cars)	6 impacts/day, 2 sec/impact	135	- - -
4	241 Trucks/24 Hours (max speed = 5 mph)	Day = 200, Evening = 14, Night = 27	TNM	TNM
5	66 Busses/24 Hours (max speed = 5 mph)	66 Busses in/out	TNM	TNM
6	Renewable Fuels Unit A	24/7 operation	111	
7	Construction Zone - Unit A	Daytime operation only	124	- - -
8	Construction Zone - Hydrogen Plant	Daytime operation only	124	- - -
9	Construction Zone - Unit B	Daytime & nighttime operation	124	113
10	Construction Zone - Centrifuges	Daytime & nighttime operation	124	113
11	Construction Zone - Control Room	Daytime & nighttime operation	124	113
12	Construction Zone - Warehouse	Daytime & nighttime operation	124	113
13	Construction Zone - Loading Rack	Daytime operation only	124	- - -
14	Cogen Plant	Not operating	- - -	

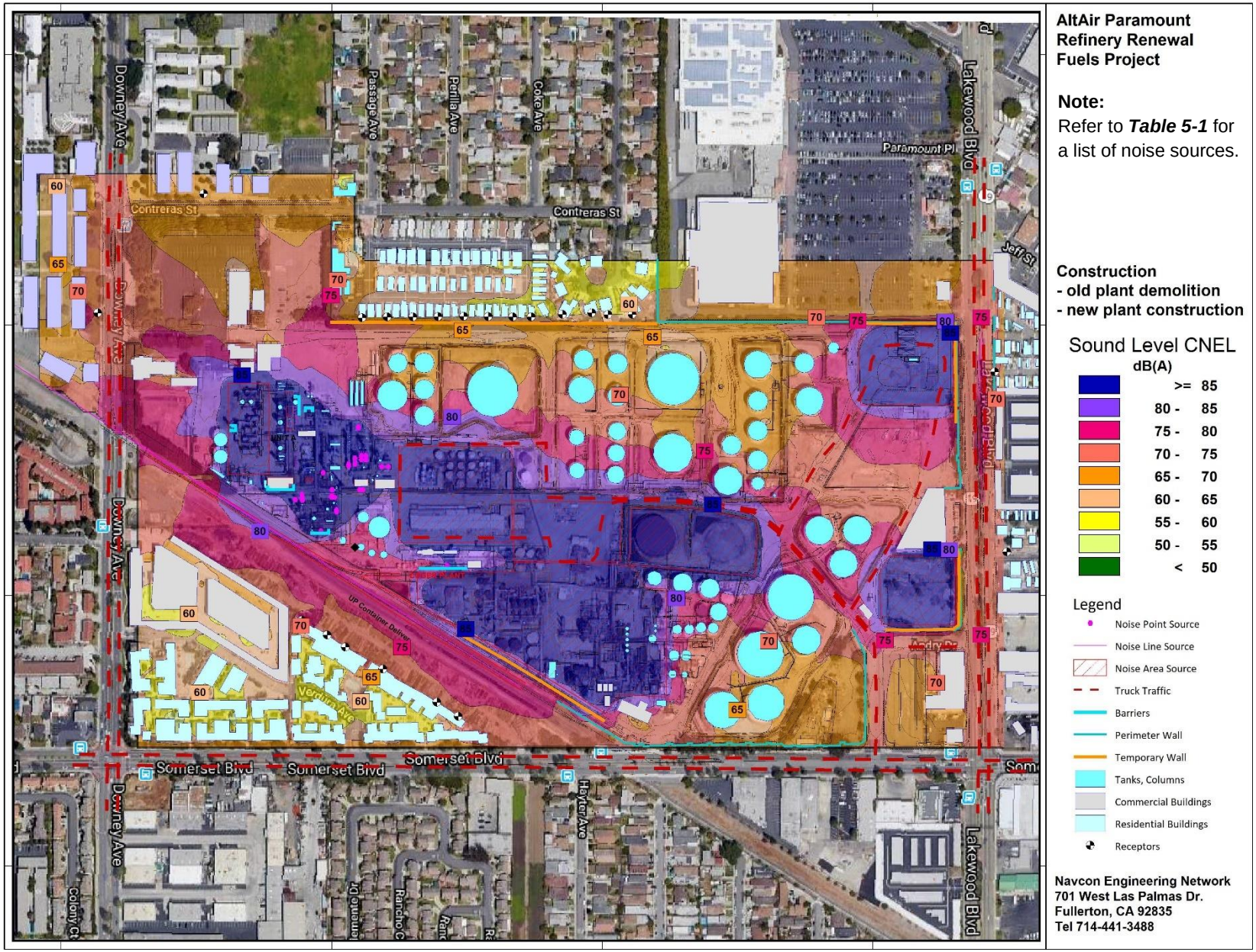
Case 3, Revised Renewable Fuels Project			Sound Power Lw [dBA]	
ID	**Noise Source**	**Notes**	**7 am - 7 pm**	**7 pm - 7 am**
1	Rail Switch Engine	8 hrs. operation per day	109	- - -
2	Union Pacific Train Delivery/Pickup	2-trains with 25 cars/train	112	- - -
3	Rail Cars Bumping (2-trains, 25 cars/train)	6 impacts/day, 2 sec/impact	134	- - -
4	540 Trucks/24 Hours (max speed = 5 mph)	Day=270, Evening=67.5, Night=202.5	TNM	TNM
6	Renewable Fuels Unit A	24/7 operation	124	
7	Renewable Fuels Unit B	24/7 operation	119	
8	Pre-Treat Centrifuges	24/7 operation	119	
9	Hydrogen Plant	24/7 operation	126	
10	PSA Unit	24/7 operation	134	
11	Propane Recovery	24/7 operation	113	
12	Cogen Plant	Not operating	- - -	

***Notes**: TNM = Transportation Noise Model calculation. Case 2 Truck traffic includes trucks used for construction and operation. For calculation purposes; daytime hours are 7 am to 7 pm, evening hours are 7 pm to 10 pm and nighttime hours are 10 pm to 7 am.*

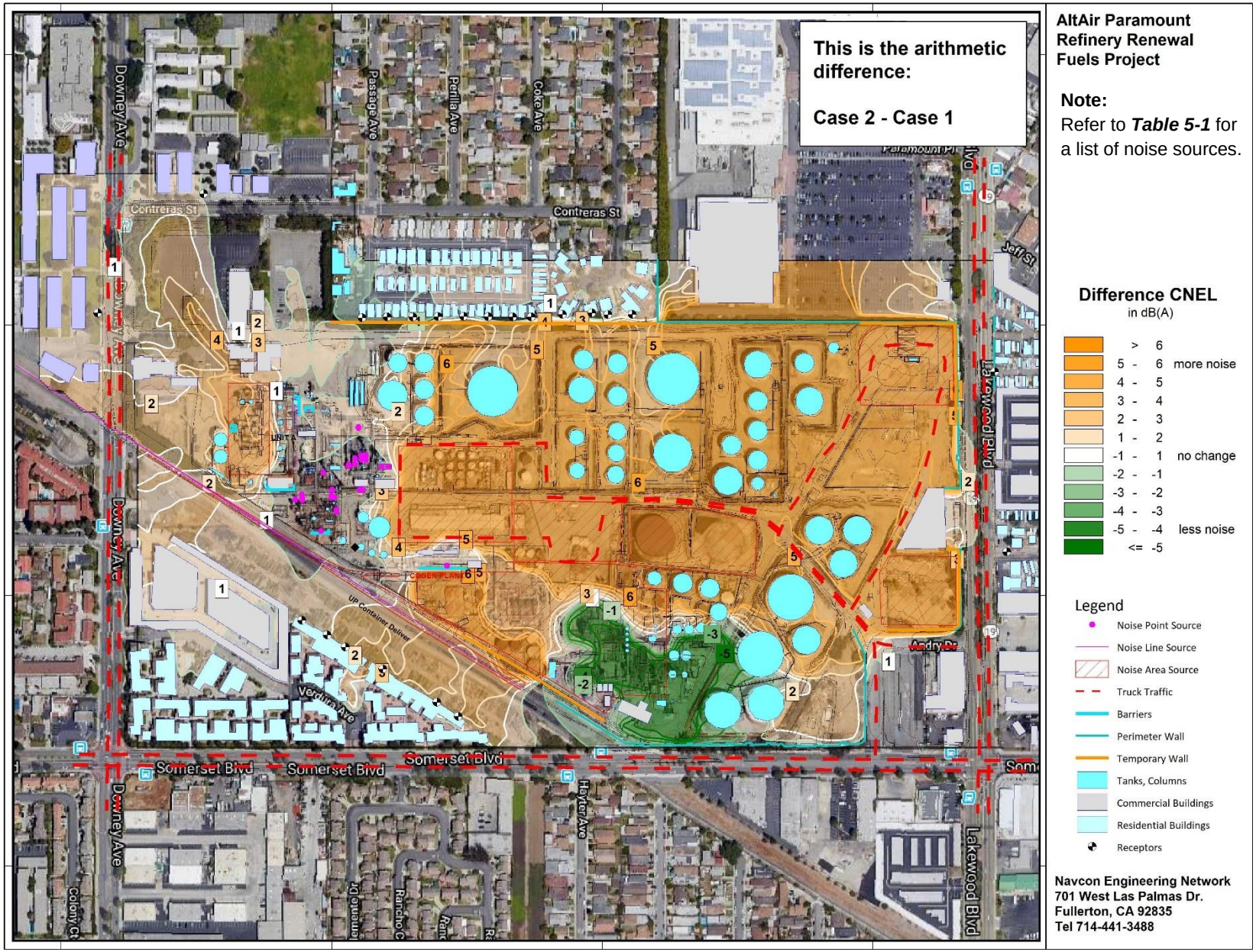
Noise Map 5-1 Case 1 CNEL Operating Crude Refinery



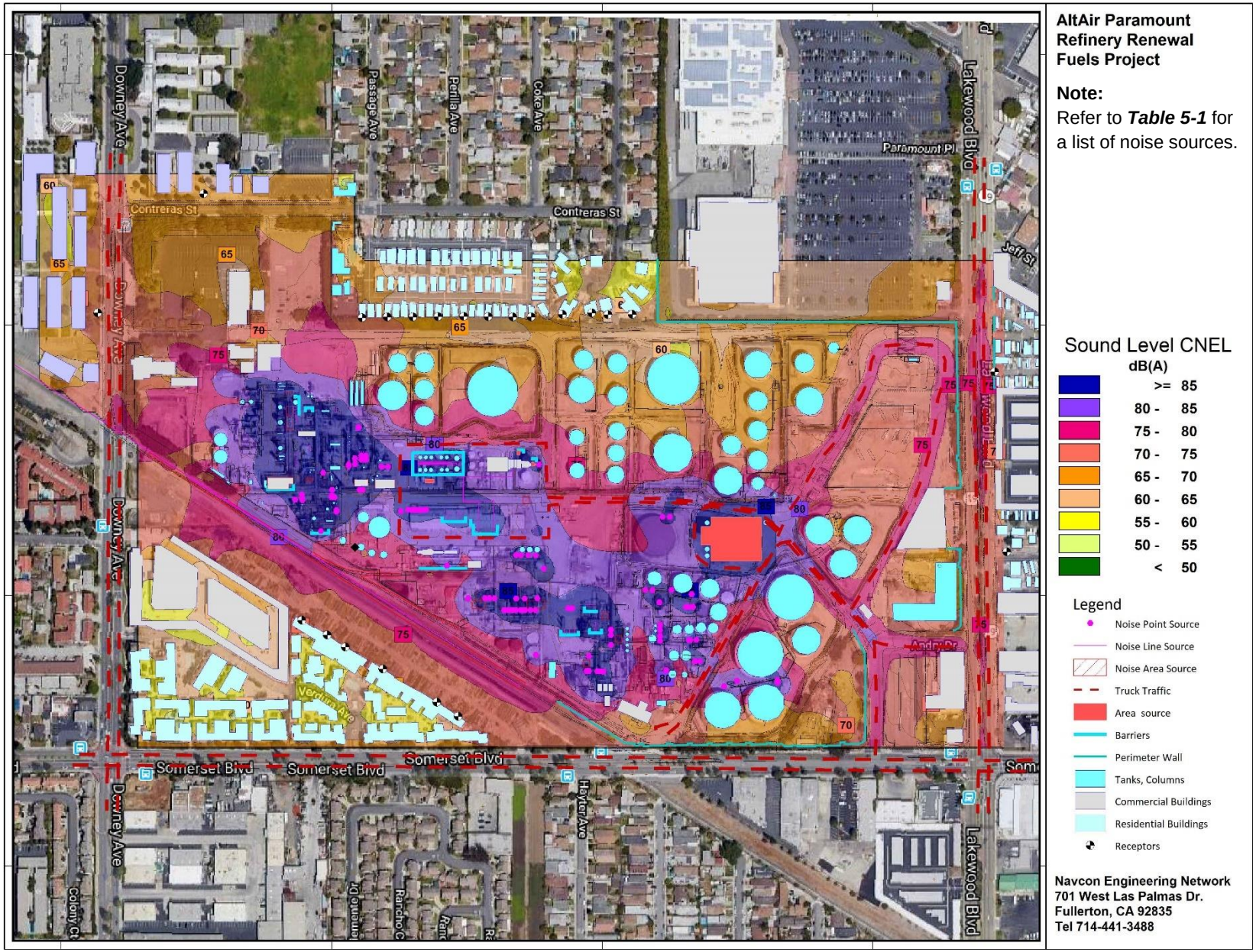
Noise Map 5-2 Case 2 CNEL Renewable Fuels Project + Revised Renewable Project Demolition/Construction



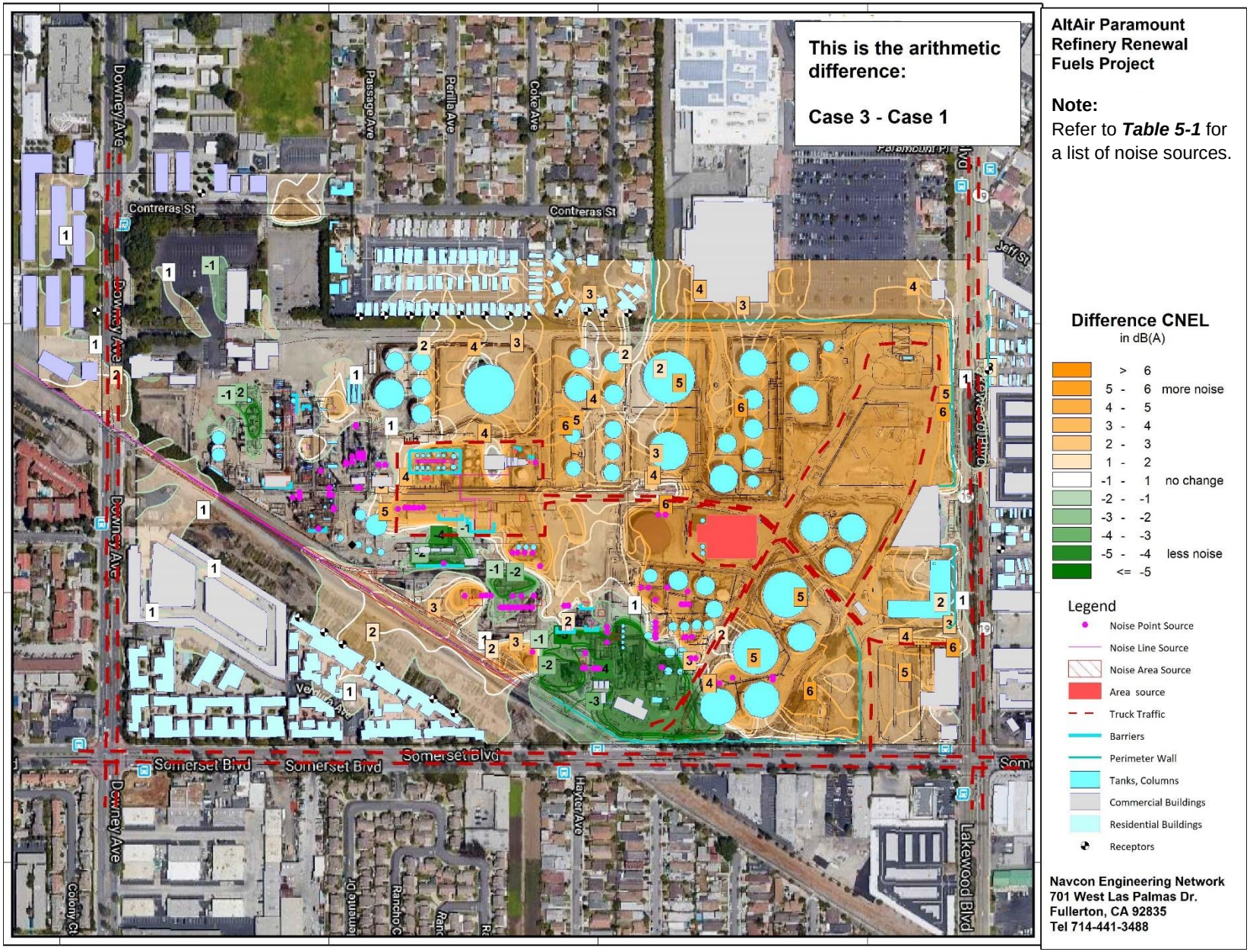
Difference Map 5-1 Case 2 – Case 1 CNEL Noise Impact from the Demolition/Construction of Revised Fuels Project



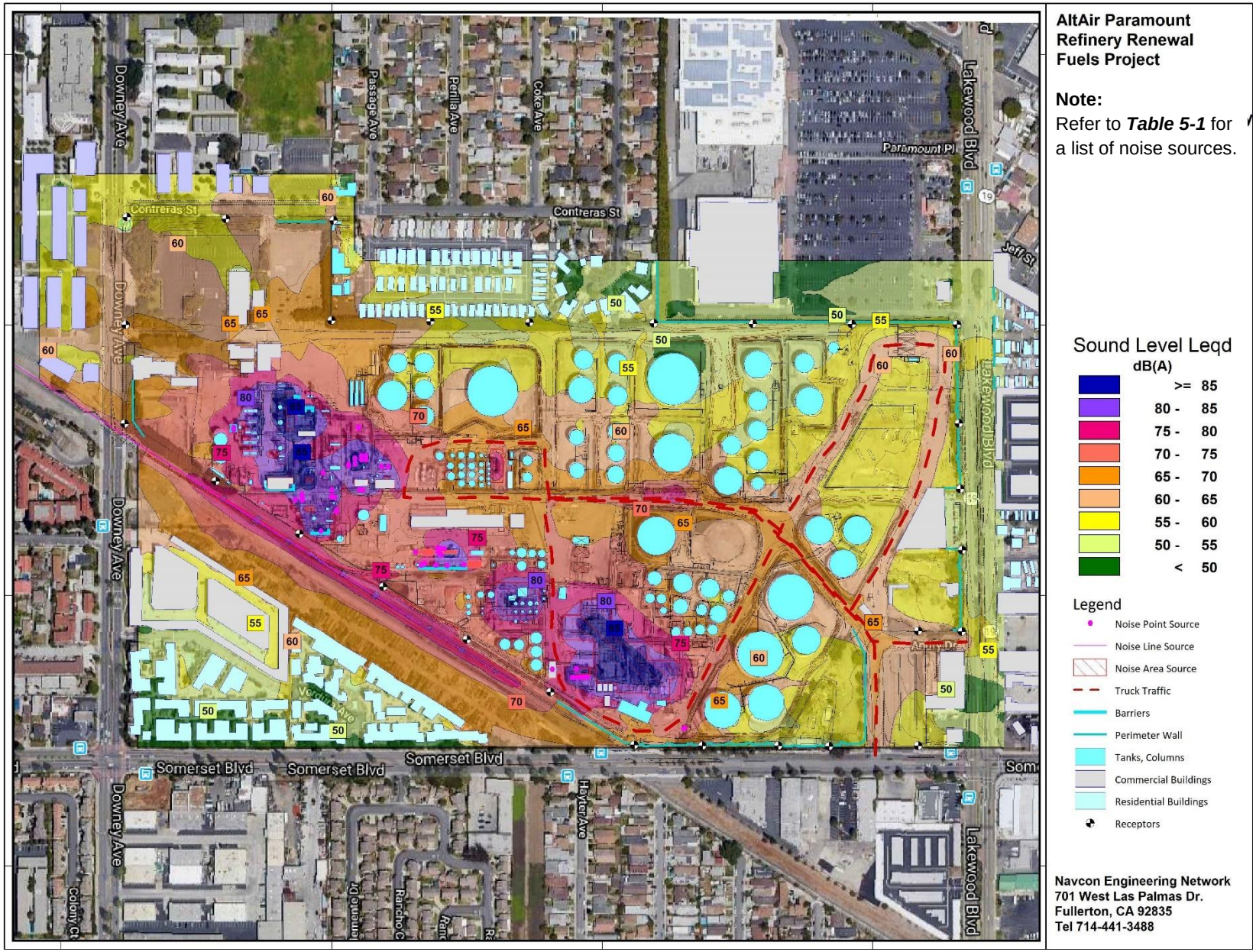
Noise Map 5-3 Case 3 CNEL Revised Renewable Fuels Project Operation



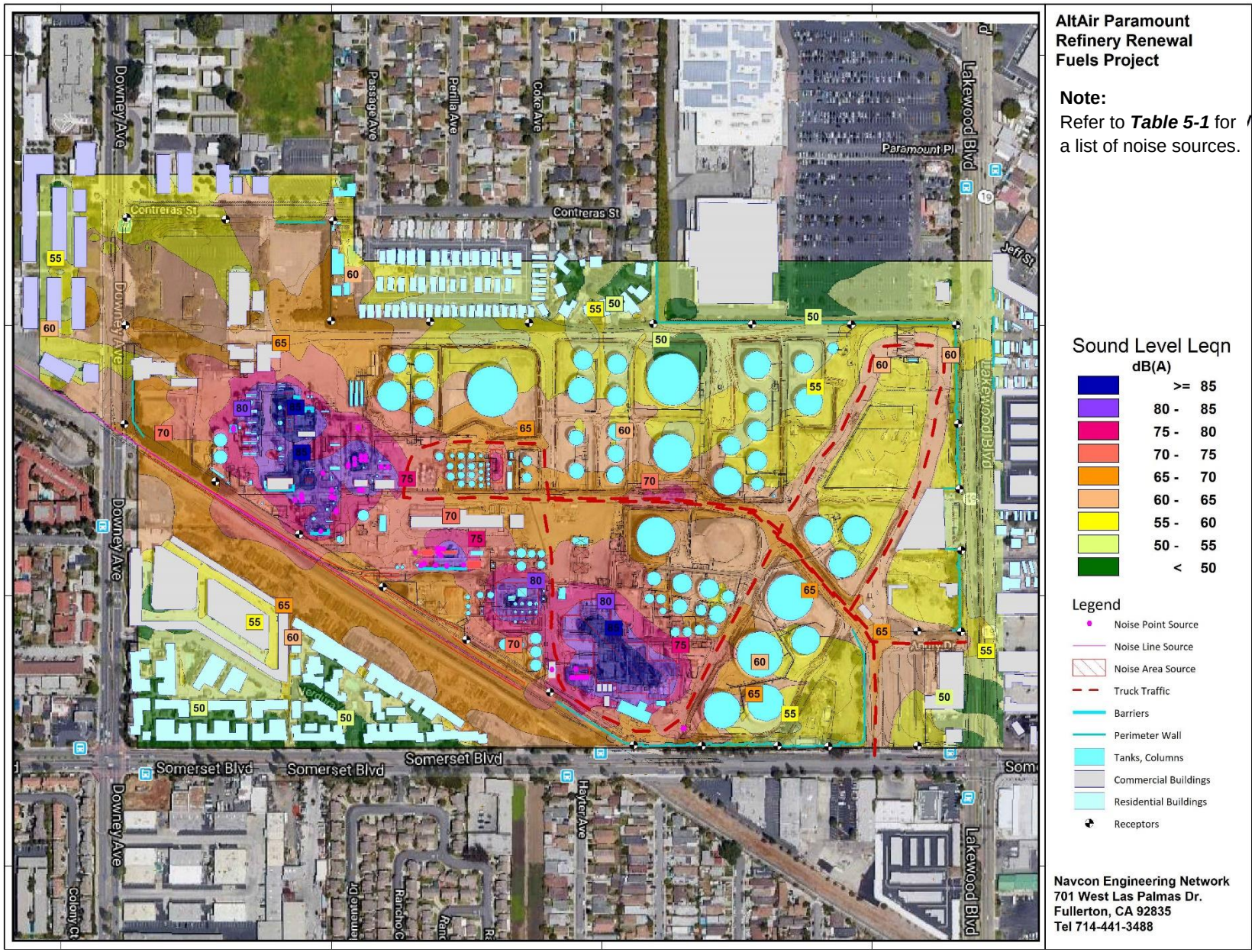
Difference Map 5-2 Case 3 – Case 1 CNEL Noise Impact from the Revised Fuels Project



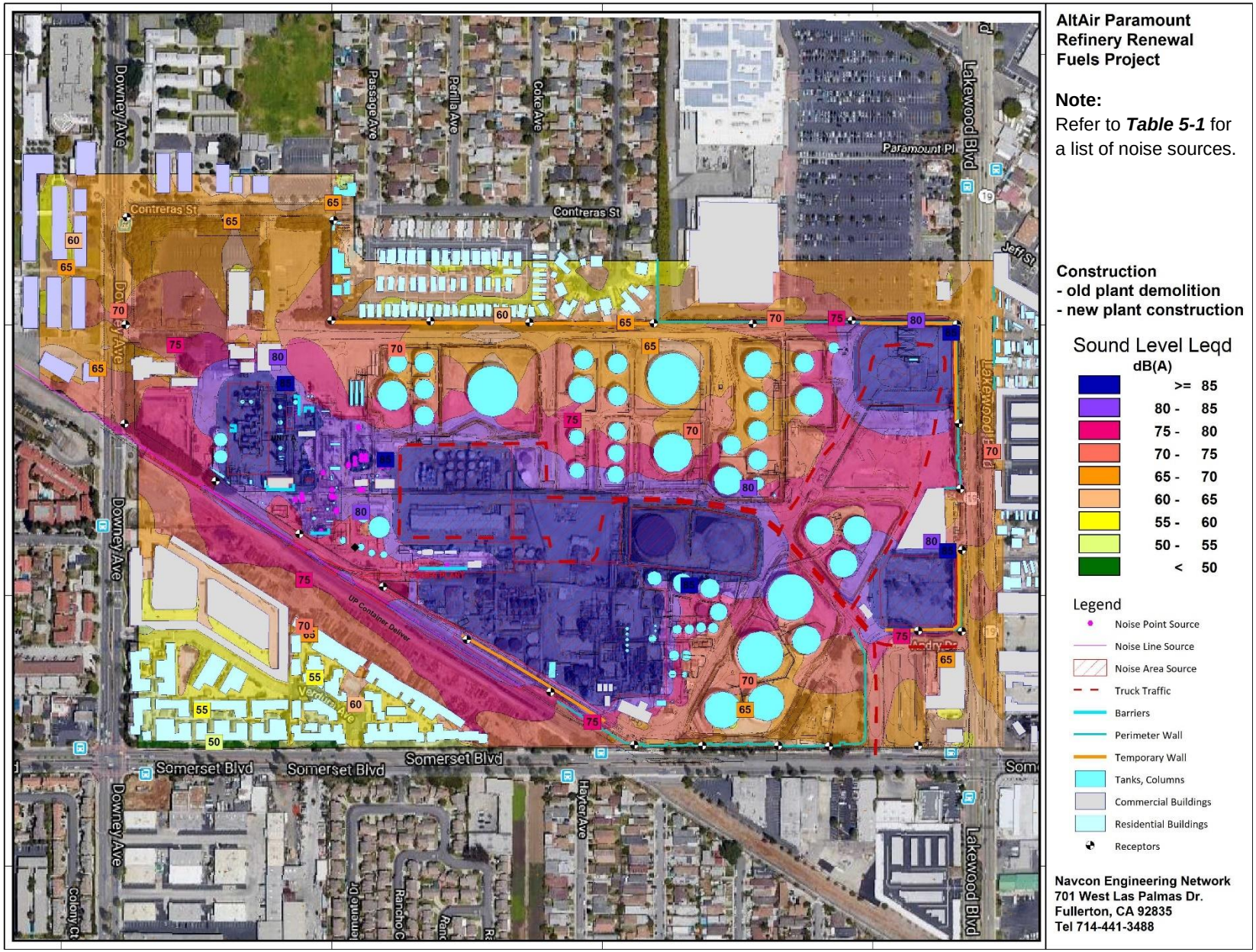
Noise Map 5-4 Case 1 PMC Leq max,hr Daytime Operating Crude Refinery



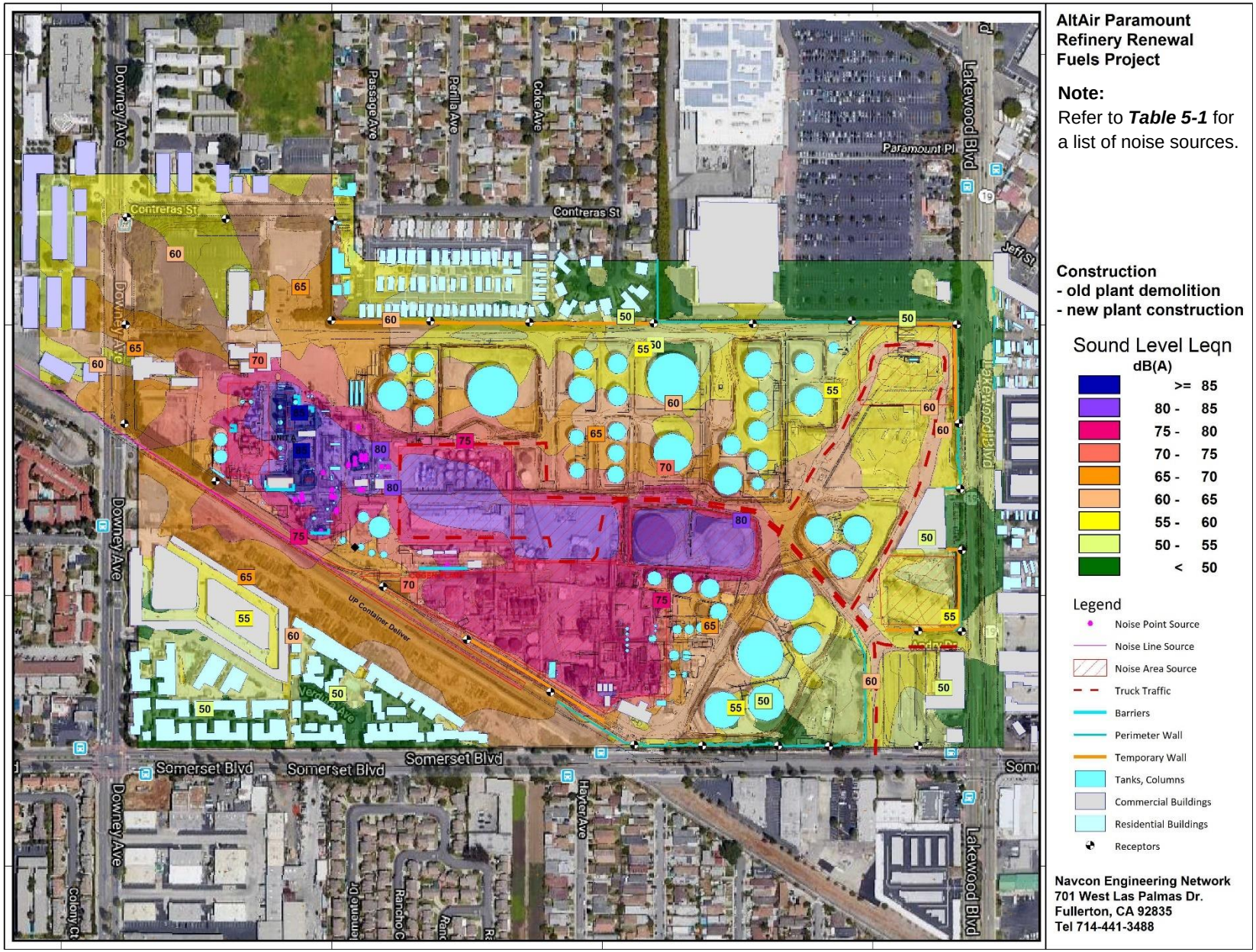
Noise Map 5-5 Case 1 PMC Leq max,hr Nighttime Operating Crude Refinery



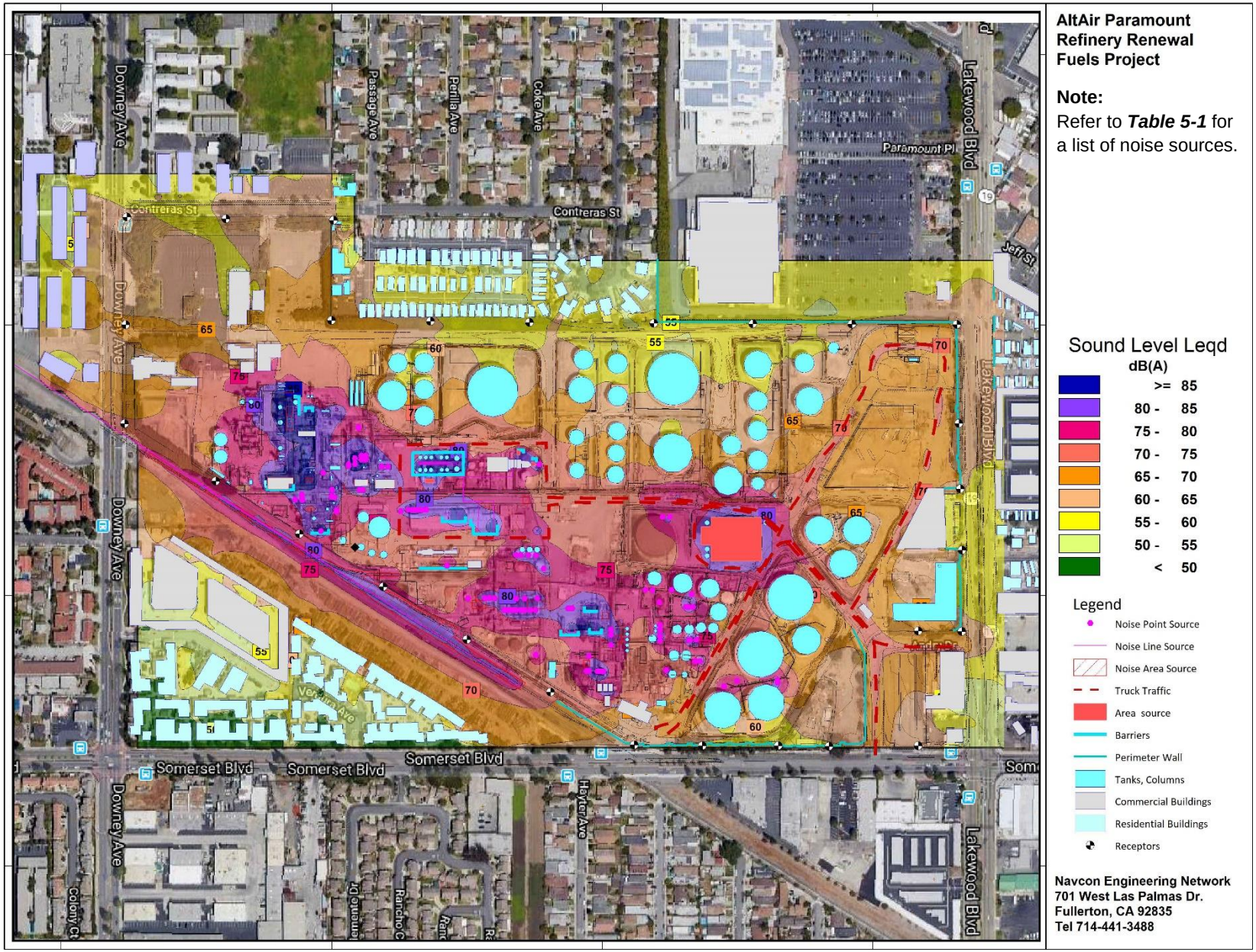
Noise Map 5-6 Case 2 PMC Leq max,hr Daytime Renewable Fuels Project + Revised Renewable Project Demolition/Construction



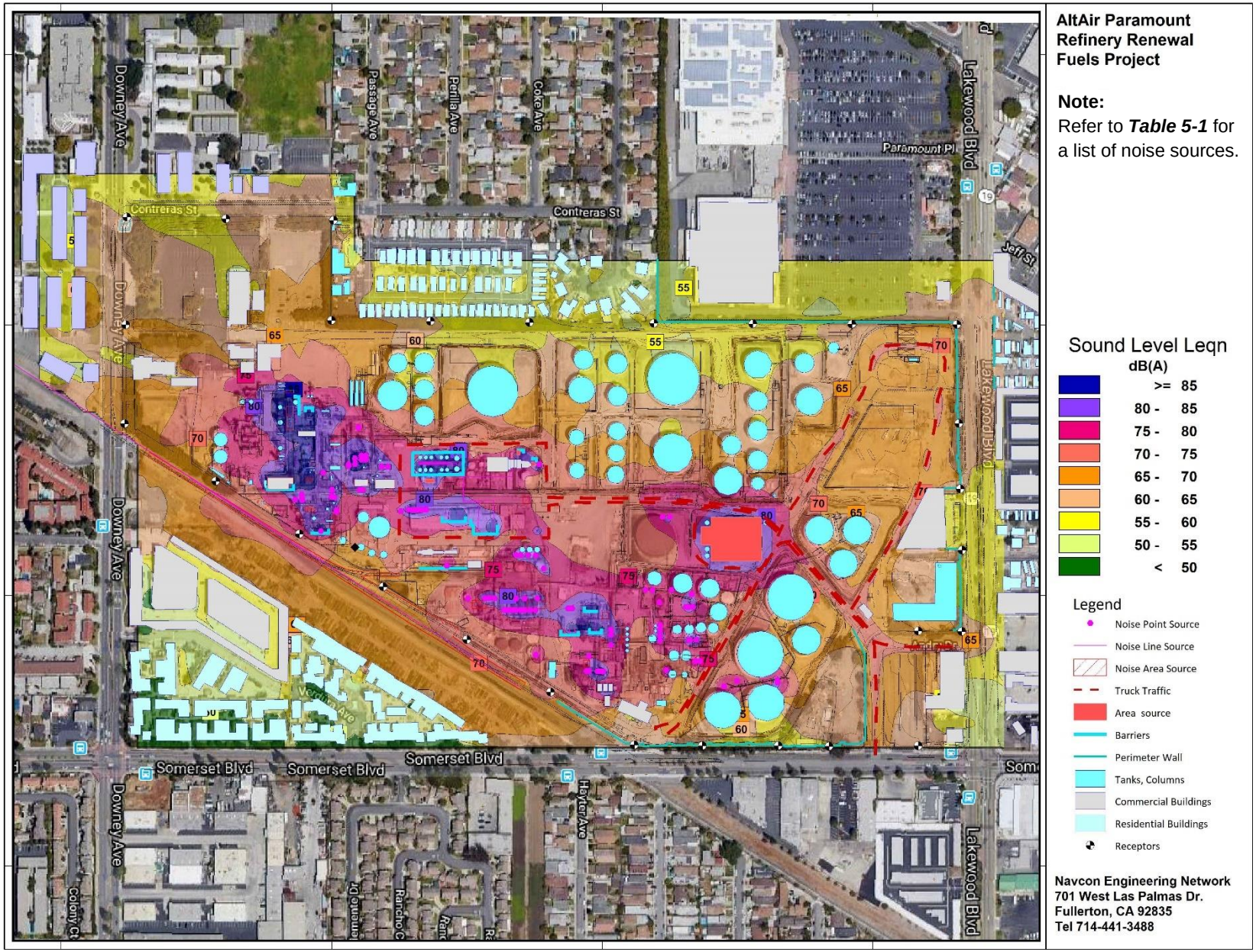
Noise Map 5-7 Case 2 PMC Leq max,hr Nighttime Renewable Fuels Project + Revised Renewable Project Demolition/Construction



Noise Map 5-8 Case 3 PMC Leq max,hr Daytime Operating Crude Refinery



Noise Map 5-9 Case 3 PMC Leq max,hr Nighttime Operating Crude Refinery



6.0 SUMMARY & RECOMMENDATIONS

The results of the noise impact assessment indicate that the Revised Renewable Fuels Project will not represent a significant noise impact to the residential community (refer to ***Section 2.0***).

It is recommended that upon startup of the Revised Renewable Fuels Project, a noise survey be conducted to confirm that the noise impact is less than significant.

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 1

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2011 Track Mobile switch moving rail cars 33 cars per day	3291	3503	25.2	109.0	84.3	95.5	92.6	91.1	96.5	101.7	102.9	102.7	100.6	95.1
Fin Fan XF 617 - Below	3491	3430	37.5	104.0	67.3	79.0	86.6	96.7	100.2	97.2	94.9	89.9	79.7	67.9
Fin Fan XF 617 - Above	3491	3430	38.5	93.0	59.9	72.7	80.4	85.9	89.8	86.1	80.4	68.0	54.0	
Fin Fan XF 616 - Below	3483	3430	37.0	108.0	71.3	83.0	90.6	100.7	104.2	101.2	98.9	93.9	83.7	71.9
Fin Fan XF 616 - Above	3483	3430	37.8	96.0	62.9	75.7	83.4	88.9	92.8	89.1	83.4	71.0	57.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	3515	3448	26.7	113.7	75.8	89.0	96.1	100.6	106.0	106.2	107.4	107.2	105.1	
Asphalt Production	3422	3497	27.6	113.8	75.9	89.1	96.2	100.7	106.1	106.3	107.5	107.3	105.2	
Crude Plant Operation 80 dB/m^2 at 1 m	3515	3448	24.7	113.7	75.8	89.0	96.1	100.6	106.0	106.2	107.4	107.2	105.1	
Misc pumps motors	3403	3620	25.8	100.2	62.2	75.4	82.5	87.0	92.4	92.6	93.8	93.6	91.5	
XF 313, XF 314	3211	3688	31.5	113.0	57.9	80.5	99.8	101.7	107.6	109.0	104.8	98.6	87.1	74.3
XF 335-1, XF 335-2	3211	3670	33.5	113.4	73.7	91.5	102.0	104.4	107.3	104.8	108.4	102.8	93.6	82.1
XF 304, XF 321	3211	3658	33.5	110.5	72.5	90.1	100.7	102.9	106.0	103.0	99.7	99.7	89.9	78.4
XF 503	3229	3607	30.8	113.0	73.5	82.0	95.2	102.2	107.4	105.2	99.6	109.0	97.1	73.2
Cooling Tower CT 511-CT 511 East Side	3308	3603	27.9	97.6	55.2	70.3	84.1	89.1	91.1	91.5	90.1	89.0	82.3	
Cooling Tower CT 511-CT 511 West Side	3290	3603	27.9	97.7	55.2	70.4	84.1	89.2	91.2	91.5	90.2	89.0	82.4	
Cooling Tower CT 510-CT 510 East Side	3284	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 510-CT 510 West Side	3271	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Boiler Crude Unit-Heater Opening	3505	3408	25.1	95.6	62.0	72.8	81.2	88.7	89.3	90.1	87.7	83.1	75.8	61.7
Heater # 5-Heater	3498	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3503	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3508	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
2.8-Open Intake	3364	3544	31.9	90.5	77.4	88.0	84.8	79.5	69.6	59.7	42.9	73.5	69.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	3331	3540	27.1	69.5	53.2	60.4	63.0	62.8	65.2	54.5	48.4	25.6	6.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	3332	3542	25.4	68.5	52.2	59.4	62.0	61.9	64.3	53.6	47.4	24.6	5.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	3329	3541	25.4	66.8	50.5	57.7	60.3	60.2	62.6	51.9	45.7	22.9	3.5	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	3329	3539	25.4	68.8	50.4	57.7	60.7	62.6	65.5	54.8	48.7	25.9	6.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	3332	3538	25.4	68.5	52.2	59.4	62.0	61.9	64.3	53.6	47.4	24.6	5.1	
Solar Turbine T70 SCR-SCR Unit Roof	3339	3540	28.3	78.0	59.7	66.9	69.9	71.8	74.7	64.0	57.9	35.1	15.6	
Solar Turbine T70 SCR-SCR Unit South	3339	3537	25.9	76.0	57.6	64.8	67.9	69.8	72.7	62.0	55.8	33.0	13.6	
Solar Turbine T70 SCR-SCR Unit SE	3343	3538	25.9	70.8	52.4	59.7	62.7	64.6	67.5	56.8	50.7	27.9	8.4	
Solar Turbine T70 SCR-SCR Unit NE	3343	3542	25.9	68.9	52.5	59.8	62.3	62.2	64.6	53.9	47.8	25.0	5.5	
Solar Turbine T70 SCR-SCR Unit North	3339	3543	25.9	75.9	57.5	64.8	67.8	69.7	72.6	61.9	55.8	33.0	13.5	
Solar Turbine T70 SCR-SCR Unit NW	3334	3542	25.9	70.4	52.0	59.2	62.3	64.2	67.1	56.4	50.2	27.4	8.0	
Solar Turbine T70 SCR-SCR Unit SW	3334	3538	25.9	70.4	52.0	59.2	62.3	64.2	67.0	56.3	50.2	27.4	7.9	
Solar Turbine T70 Boiler-Boiler Roof	3349	3540	28.3	85.4	63.5	73.7	78.3	78.2	81.6	73.9	73.7	58.9	41.4	
Solar Turbine T70 Boiler-Boiler South	3349	3538	25.9	87.1	65.2	75.4	80.0	79.8	83.3	75.5	75.4	60.6	43.1	
Solar Turbine T70 Boiler-Boiler East 1	3353	3539	25.9	77.1	55.2	65.4	70.0	69.8	73.2	65.5	65.4	50.6	33.1	
Solar Turbine T70 Boiler-Boiler South 2	3354	3539	25.9	78.5	56.5	66.7	71.3	71.2	74.6	66.9	66.7	51.9	34.5	
Solar Turbine T70 Boiler-Boiler North 2	3354	3541	25.9	78.7	56.8	67.0	71.6	71.4	74.8	67.1	67.0	52.2	34.7	
Solar Turbine T70 Boiler-Boiler East 2	3353	3541	25.9	76.2	54.3	64.5	69.0	68.9	72.3	64.6	64.5	49.7	32.2	
Solar Turbine T70 Boiler-Boiler North 1	3349	3542	25.9	87.1	65.2	75.4	80.0	79.8	83.2	75.5	75.4	60.6	43.1	
FG Compressor Enclosure-FG Enclosure Roof	3382	3529	28.4	82.4	69.9	73.6	78.9	77.3	64.9	66.3	62.6	57.7	53.1	
FG Compressor Enclosure-FG Enclosure West	3375	3529	26.0	77.8	65.5	69.1	74.5	72.5	59.4	60.7	57.0	52.4	47.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	3375	3527	26.2	71.1	44.9	56.8	50.8	40.8	29.8	29.8	70.8	42.8	53.8	
FG Compressor Enclosure-FG Enclosure South	3382	3525	26.0	72.0	52.5	58.3	70.9	62.7	53.8	47.5	56.1	43.2	35.9	
FG Compressor Enclosure-FG Enclosure East	3388	3529	26.0	77.7	65.5	69.1	74.4	72.4	59.1	60.6	56.9	52.2	47.6	
FG Compressor Enclosure-FG Enclosure East Louver 1	3388	3526	26.2	71.1	44.9	56.8	50.8	40.8	29.8	29.8	70.8	42.8	53.8	
FG Compressor Enclosure-FG Enclosure North	3382	3532	26.0	80.7	68.2	71.9	77.3	75.5	62.9	64.3	60.6	55.7	51.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	3360	3540	27.2	101.3	68.5	74.7	82.8	94.3	94.7	94.9	92.1	94.9	78.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	3360	3538	25.4	101.7	68.8	75.0	83.1	94.6	95.0	95.2	92.4	95.2	79.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	3366	3540	25.4	96.3	63.4	69.6	77.7	89.2	89.6	89.8	87.0	89.8	73.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	3360	3542	25.4	101.7	68.8	75.0	83.1	94.6	95.0	95.2	92.4	95.2	79.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	3354	3541	25.4	90.5	57.6	63.8	71.9	83.4	83.8	84.0	81.2	84.0	67.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	3354	3539	25.4	90.6	57.7	63.9	72.0	83.5	83.9	84.1	81.3	84.1	68.0	
CT Y-600-CT Y-600 North	3454	3439	27.6	96.4	54.0	69.1	82.9	87.9	89.9	90.3	88.9	87.8	81.1	
CT Y-600-CT Y-600 South	3454	3424	27.7	96.4	54.0	69.1	82.9	87.9	89.9	90.3	88.9	87.8	81.1	
Compressor House C301, C302, C 124-Comp House North	3203	3609	26.6	103.5	60.1	72.0	91.9	96.3	97.4	95.9	97.2	91.4	87.1	
Compressor House C301, C302, C 124-Comp House West	3191	3603	26.6	97.4	55.0	70.2	83.9	88.9	90.9	91.3	89.9	88.8	82.1	
Compressor House C301, C302, C 124-Comp House South 1	3201	3598	26.6	107.7	64.3	76.1	96.1	100.4	101.6	100.0	101.4	95.6	91.2	
Compressor House C301, C302, C 124-Comp House East 1	3210	3601	26.6	101.8	58.4	70.2	90.2	94.5	95.7	94.1	95.5	89.7	85.3	
Compressor House C301, C302, C 124-Comp House South 2	3212	3603	26.6	100.8	57.4	69.2	89.2	93.5	94.7	93.1	94.5	88.7	84.3	
Compressor House C301, C302, C 124-Comp House East 2	3214	3606	26.6	100.5	67.7	73.9	82.0	93.5	93.9	94.1	91.3	94.1	78.0	
Heater H 601	3490	3408	25.6	89.1	62.5	75.0	76.4	82.0	81.9	83.3	80.3	79.7	69.4	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 1

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 312	3217	3632	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 313	3217	3630	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 319	3218	3627	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 318	3218	3626	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 315	3217	3624	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 316	3217	3622	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 317	3217	3620	24.7	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 309	3217	3667	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 305	3217	3665	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 303	3217	3664	24.7	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 302	3217	3662	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 300	3217	3661	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 301	3217	3659	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 307	3217	3654	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 120/121	3229	3658	24.7	96.2	44.4	60.2	73.4	83.8	90.0	92.7	88.8	84.1	74.9	64.6
Air Compressor C 1	3229	3671	24.4	110.0	66.6	78.5	98.4	102.8	103.9	102.4	103.7	97.9	93.6	
Burner H303 South	3175	3629	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H303 North	3175	3633	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H304 South	3175	3639	25.8	97.0		65.0	70.9	78.3	92.2	91.5	89.1	88.9	84.6	
Burner H304 North	3175	3643	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H305 South	3176	3649	25.8	96.3		64.3	70.3	77.7	91.5	90.8	88.5	88.2	84.0	
Burner H305 North	3176	3652	25.8	96.3		64.3	70.3	77.7	91.5	90.8	88.5	88.2	84.0	
Burner H306 South	3177	3659	25.8	95.1		63.0	69.0	76.4	90.2	89.5	87.2	87.0	82.7	
Burner H306 North	3177	3662	25.8	95.0		63.0	69.0	76.4	90.2	89.5	87.2	86.9	82.7	
Burner H302 South	3175	3669	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H302 North	3175	3672	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H301 South	3176	3684	25.8	95.9		63.9	69.9	77.3	91.1	90.4	88.1	87.9	83.6	
Burner H301 North	3176	3687	25.8	96.1		64.1	70.0	77.4	91.2	90.6	88.2	88.0	83.7	
Motor & Pump P 327	3217	3683	24.7	111.2	52.5	68.1	77.3	90.9	103.2	106.4	107.0	101.7	93.6	81.0
Motor & Pump P 306	3217	3675	25.1	112.6	52.9	82.5	86.6	105.4	106.6	101.6	107.3	99.9	103.9	82.3
Motor & Pump P 329	3217	3672	25.1	110.2	56.3	78.3	86.3	97.0	102.1	108.1	101.1	96.2	87.5	76.9
Motor & Pump P 328	3217	3669	25.1	109.9	58.1	73.9	87.2	97.6	103.7	106.4	102.5	97.8	88.6	78.4
Tank Farm Pump 1	3543	3594	25.1	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 2	3565	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 3	3571	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Motor & Pump P - 1507 Reactor Pump	3266	3623	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1508 Reactor Pump	3266	3625	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1502 Splitter Reflux Pu	3275	3620	24.6	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1503 Splitter Bottoms P	3275	3625	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1504 Splitter Bottoms P	3275	3628	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1511 Stabilizer Reflux	3282	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1512 Stabilizer Reflux	3279	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1513 Caustic Circulatin	3275	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1514 Caustic Circulatin	3277	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 A	3294	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 B	3296	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 A	3297	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 B	3298	3620	25.5	96.5	47.5	62.6	74.7	82.3	87.7	90.8	92.0	88.9	79.8	
UP Train Locomotive Delivery and Pickup	3068	3642	26.8	112.4	87.7	98.9	96.0	94.5	99.9	105.1	106.3	106.1	104.0	98.5
Rail Cars Bumping 6 times in during delivery	3272	3512	24.8	134.7	119.5	120.0	105.7	128.2	122.6	132.4	121.7	117.2	108.1	92.7
Cooling Tower M 513	3276	3598	25.4	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 512	3277	3598	25.2	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 514	3279	3598	25.3	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Lub Oil Cooler XF-061	3354	3543	25.3	100.5	64.5	80.3	89.4	93.9	94.3	95.5	90.7	84.5	76.4	
Deaerator Skid P-058A&B	3349	3540	29.9	96.2	48.5	63.7	73.8	83.3	88.7	91.9	89.1	86.9	84.8	
Scanner Blower C-084A/B	3351	3538	25.4	95.5		62.6	75.7	83.2	89.6	91.8	88.0	82.8	74.7	
Exhaust Stack	3328	3540	38.9	100.6	69.6	80.8	87.9	94.4	98.8	87.0	64.2	48.0	31.9	
Incinirator Compressor & Motor	3576	3377	25.1	92.5	53.4	77.0	80.7	85.3	85.9	86.0	85.2	81.4	73.1	56.2
Incinirator Fin Fan	3575	3377	25.1	94.8	58.1	84.9	80.7	86.7	87.2	88.8	87.7	83.3	76.0	59.9
P607 15 HP	3483	3424	24.6	90.5	46.7	55.4	56.5	72.6	85.3	86.9	83.8	75.6	63.4	
P603 60 HP	3472	3424	24.7	95.0	43.6	53.3	59.9	75.1	87.7	90.3	90.8	84.3	67.4	
P611 15 HP	3480	3425	24.7	90.5	46.7	55.4	56.5	72.6	85.3	86.9	83.8	75.6	63.4	
P602 100 HP	3478	3424	25.0	94.1	45.4	52.7	63.4	80.8	90.1	88.4	87.7	80.4	72.5	
P614/615 20 HP	3476	3432	26.2	93.0	48.6	52.7	60.6	78.2	86.7	90.2	85.6	76.5	67.3	
P605 40 HP	3473	3424	24.8	95.0	43.6	53.3	59.9	75.1	87.7	90.3	90.8	84.3	67.4	
P608 15 HP	3486	3425	24.6	90.5	46.7	55.4	56.5	72.6	85.3	86.9	83.8	75.6	63.4	
Fan Y-600	3454	3432	32.5	107.5	63.2	82.0	94.2	99.5	102.4	102.0	99.1	93.8	87.2	76.8
Hydro Heater H-402	3250	3598	24.9	98.1	57.2	68.0	79.4	94.1	91.1	89.8	87.7	88.6	82.9	73.3
Motor & Pump P 56A/B	3242	3613	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 459	3250	3592	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 454	3250	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 1

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 451	3251	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 458	3253	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 453	3254	3579	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 457	3254	3578	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 211/212	3223	3588	24.6	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 217/218	3223	3590	24.0	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 215/214	3222	3593	24.6	94.6	45.6	60.8	72.9	80.4	85.8	89.0	90.2	87.0	77.9	
Motor & Pump P 216	3216	3589	25.0	98.3	49.3	64.4	76.5	84.1	89.5	92.6	93.8	90.7	81.6	
ID Fan	3160	3655	26.8	110.3		83.8	96.9	104.4	105.8	103.0	99.2	97.0	91.9	
ID Fan 200 HP Motor	3160	3653	25.5	104.4	55.3	70.5	82.6	90.1	95.5	98.7	99.9	96.7	87.6	
BFW Pumps P-073A&B	3346	3528	24.3	95.8	48.1	63.3	73.4	82.9	88.3	91.5	88.7	86.5	84.4	
F.G. After Cooler XF-083ABC	3372	3529	26.4	100.2	64.2	80.0	89.1	93.6	94.0	95.2	90.4	84.2	76.1	
Air Compressor Pump, Motor Fan CMXF -055	3356	3527	24.8	100.3	61.9	72.1	77.2	84.7	90.1	93.3	94.5	94.3	92.2	
Brine Transfer P-085	3333	3528	23.6	96.2	48.5	63.7	73.8	83.3	88.7	91.9	89.1	86.9	84.8	
Vaporizer Blower 1	3349	3543	24.5	88.7		55.8	68.9	76.4	82.8	85.0	81.2	76.0	67.9	
Vaporizer Blower 2	3348	3544	24.5	88.7		55.8	68.9	76.4	82.8	85.0	81.2	76.0	67.9	
Vaporizer Motor 1	3348	3543	24.5	83.6		41.8	55.9	67.4	76.8	80.0	77.2	73.0	66.9	
Vaporizer Motor 2	3348	3544	24.5	83.6		41.8	55.9	67.4	76.8	80.0	77.2	73.0	66.9	
Vaporizer Inlet Silencer	3350	3544	26.5	73.7		58.8	65.9	68.4	66.8	65.0	63.2	62.0	55.9	
Water Treatment Pumps P-056A&B	3336	3530	23.8	93.0	45.3	60.5	70.6	80.1	85.5	88.7	85.9	83.7	81.6	
XF Module 1519	3271	3627	32.7	109.0	77.1	84.1	89.4	95.1	98.8	105.0	104.2	99.4	91.1	76.8
XF Module 1510	3271	3622	32.7	108.3	76.4	83.4	88.7	94.4	98.1	104.3	103.5	98.7	90.4	76.1
XF-1502 Splitter Area 1	3277	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1502 Splitter Area 2	3277	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 1	3282	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 2	3282	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF - 1601	3296	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF - 1602	3302	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
Motor & Pump P 1505 FRESH FEED PUMPS	3266	3620	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1506 FRESH FEED PUMPS	3266	3621	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1509 Chloride Injection P	3275	3655	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Motor & Pump P 1510 Chloride Injection P	3275	3656	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Blower F 401	3240	3559	25.3	113.0	75.6	87.5	101.6	109.9	107.3	103.6	98.5	92.1	84.9	66.1

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2.8-Open Intake	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
2011 Track Mobile switch moving rail cars 33 cars per day								106	106								106	106						
Air Compressor C 1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Air Compressor Pump, Motor Fan CMXF -055	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Asphalt Production	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
BFW Pumps P-073A&B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Blower F 401	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Boiler Crude Unit-Heater Opening	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Brine Transfer P-085	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H301 North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H301 South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H302 North	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H302 South	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H303 North	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H303 South	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H304 North	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H304 South	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H305 North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H305 South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H306 North	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Burner H306 South	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Compressor House C301, C302, C 124-Comp House East 1	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Compressor House C301, C302, C 124-Comp House East 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House North	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Compressor House C301, C302, C 124-Comp House South 1	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Compressor House C301, C302, C 124-Comp House South 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Cooling Tower CT 510-CT 510 East Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 510-CT 510 West Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 511-CT 511 East Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower CT 511-CT 511 West Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower M 512	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 513	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 514	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Crude Plant Operation 80 dB/m^2 at 1 m	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
Crude Plant Operation SPL 80 dB/m^2 at 3 m	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
CT Y-600-CT Y-600 North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
CT Y-600-CT Y-600 South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Deaerator Skid P-058A&B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Exhaust Stack	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
F.G. After Cooler XF-083ABC	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Fan Y-600	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
FG Compressor Enclosure-FG Enclosure Roof	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
FG Compressor Enclosure-FG Enclosure East	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
FG Compressor Enclosure-FG Enclosure East Louver 1	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
FG Compressor Enclosure-FG Enclosure North	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
FG Compressor Enclosure-FG Enclosure South	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
FG Compressor Enclosure-FG Enclosure West	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78

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Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock	ↄ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
FG Compressor Enclosure-FG Enclosure West Louver 3	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Fin Fan XF 616 - Above	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Fin Fan XF 616 - Below	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Fin Fan XF 617 - Above	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Fin Fan XF 617 - Below	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater H 601	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Hydro Heater H-402	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
ID Fan	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
ID Fan 200 HP Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Incinirator Compressor & Motor	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
Incinirator Fin Fan	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Lub Oil Cooler XF-061	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Misc pumps motors	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 56A/B	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 120/121	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 211/212	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 215/214	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 216	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 217/218	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 300	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 301	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 302	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 303	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 305	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 306	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Motor & Pump P 307	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 309	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 312	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 313	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 315	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 316	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 317	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 318	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 319	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 327	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Motor & Pump P 328	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 329	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 451	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 453	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 454	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 457	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 458	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 459	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 1505 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1506 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1509 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1510 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1601 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1601 B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1502 Splitter Reflux Pu	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1503 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1504 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1507 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1508 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1511 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1512 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1513 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1514 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
P602 100 HP	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
P603 60 HP	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
P605 40 HP	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
P607 15 HP	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
P608 15 HP	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
P611 15 HP	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
P614/615 20 HP	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Rail Cars Bumping 6 times in during delivery											110													
Scanner Blower C-084A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Solar Turbine T70 2nd Boiler-2nd Boiler North	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 2nd Boiler-2nd Boiler NW	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Solar Turbine T70 2nd Boiler-2nd Boiler South	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 2nd Boiler-2nd Boiler SW	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 Boiler-Boiler East 1	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
Solar Turbine T70 Boiler-Boiler East 2	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Solar Turbine T70 Boiler-Boiler North 1	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Solar Turbine T70 Boiler-Boiler North 2	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
Solar Turbine T70 Boiler-Boiler Roof	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Solar Turbine T70 Boiler-Boiler South	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Solar Turbine T70 Boiler-Boiler South 2	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Solar Turbine T70 Enclosure-T70 Encl. East Wall	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Solar Turbine T70 Enclosure-T70 Encl. North Wall	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Solar Turbine T70 Enclosure-T70 Encl. Roof	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Solar Turbine T70 Enclosure-T70 Encl. South Wall	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Solar Turbine T70 SCR-SCR Unit Roof	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Solar Turbine T70 SCR-SCR Unit NE	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 SCR-SCR Unit North	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Solar Turbine T70 SCR-SCR Unit NW	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Solar Turbine T70 SCR-SCR Unit SE	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Solar Turbine T70 SCR-SCR Unit South	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Solar Turbine T70 SCR-SCR Unit SW	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Tank Farm Pump 1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 2	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
UP Train Locomotive Delivery and Pickup											109													
Vaporizer Blower 1	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Vaporizer Blower 2	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Vaporizer Inlet Silencer	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
Vaporizer Motor 1	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Vaporizer Motor 2	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Water Treatment Pumps P-056A&B	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
XF-1502 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1502 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF 304, XF 321	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
XF 313, XF 314	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1 o'clock dB(A)	1-2 o'clock dB(A)	3-4 o'clock dB(A)	2-3 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)	6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)	10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)	14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)	18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)	22-23 o'clock dB(A)	23-24 o'clock dB(A)
XF 335-1, XF 335-2	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 503	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF - 1601	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF - 1602	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF Module 1510	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
XF Module 1519	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

AltAir Paramount - WorldEnergy
Assessed receiver levels
Case 1

Receiver	Fl	X	Y	Z	GH	CNEL	Ld 7-19	Le 19-22	Leq,N	
		m	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	
SS-1	G	3222.3	3477.3	27.4	24.4	73.0	66.6	66.3	66.3	
SS-1	F2	3222.3	3477.3	30.2	24.4	73.1	66.7	66.5	66.4	
SS-1	F3	3222.3	3477.3	33.0	24.4	73.4	66.9	66.7	66.7	
SS-2	G	3245.8	3463.7	27.4	24.5	71.7	65.3	65.0	64.9	
SS-2	F2	3245.8	3463.7	30.2	24.5	72.1	65.8	65.4	65.4	
SS-2	F3	3245.8	3463.7	33.0	24.5	72.4	66.0	65.7	65.7	
SS-3	G	3262.7	3452.4	27.4	24.6	70.4	64.2	63.7	63.7	
SS-3	F2	3262.7	3452.4	30.2	24.6	71.2	64.9	64.5	64.5	
SS-3	F3	3262.7	3452.4	33.0	24.6	71.6	65.3	64.9	64.9	
SS-4	G	3297.3	3432.1	26.8	24.4	69.7	63.5	63.0	63.0	
SS-4	F2	3297.3	3432.1	29.6	24.4	70.7	64.5	64.0	64.0	
SS-4	F3	3297.3	3432.1	32.4	24.4	71.0	64.7	64.3	64.3	
SS-5	G	3347.2	3401.4	26.8	24.1	70.9	64.5	64.2	64.2	
SS-5	F2	3347.2	3401.4	29.6	24.1	71.5	65.2	64.9	64.8	
SS-5	F3	3347.2	3401.4	32.4	24.1	71.8	65.4	65.1	65.1	
SS-6	G	3366.9	3388.5	26.8	24.1	70.9	64.5	64.2	64.1	
SS-6	F2	3366.9	3388.5	29.6	24.1	71.5	65.1	64.8	64.7	
SS-6	F3	3366.9	3388.5	32.4	24.1	71.7	65.3	65.1	65.0	
MH-1	G	3278.2	3756.8	27.5	24.7	72.6	65.9	65.9	65.9	
MH-2	G	3301.5	3757.4	27.5	24.7	70.7	64.0	64.0	64.0	
MH-3	G	3325.0	3757.4	27.4	24.6	68.3	61.7	61.7	61.6	
MH-4	G	3348.3	3757.7	27.3	24.4	65.6	59.0	58.9	58.9	
MH-5	G	3372.0	3757.9	27.3	24.5	62.4	55.8	55.8	55.7	
MH-6	G	3394.7	3757.8	27.4	24.6	62.1	55.5	55.5	55.4	
MH-7	G	3417.3	3757.5	27.4	24.5	63.3	56.7	56.7	56.6	
MH-8	G	3434.4	3757.6	27.5	24.6	63.7	57.1	57.1	57.0	
CA-1	G	3463.2	3759.8	28.1	25.1	62.4	56.1	56.0	55.7	
CA-2	G	3490.4	3761.3	28.5	25.2	62.3	55.7	55.7	55.6	
CA-3	G	3505.3	3759.6	28.3	25.0	61.1	54.6	54.6	54.4	
CA-4	G	3527.8	3759.9	28.7	25.3	60.9	54.4	54.4	54.2	
HWES	G	3131.7	3871.5	25.4	23.9	65.7	59.8	59.4	58.9	
PHS	G	3034.0	3761.2	25.4	23.8	73.2	68.3	67.5	66.1	
RMHP	G	3862.6	3706.8	27.2	25.7	71.1	69.3	67.6	62.2	
RLCTP	G	3873.8	3540.5	26.7	25.2	67.5	65.7	64.0	58.7	

AltAir Paramount - WorldEnergy
Emission calculation road - Case 1

Road	ADT	MSVges Day	MSVges Night	
	Veh/24h	Veh/h	Veh/h	
Lakewood NB	13000	835	144	
Lakewood NB	13000	835	144	
Lakewood SB	13000	835	144	
Lakewood SB	13000	835	144	
Lakewood NB	11755	755	130	
Lakewood NB	11755	755	130	
Lakewood SB	11755	755	130	
Somerset Ave EB	7450	478	83	
Somerset Ave WB	7450	478	83	
Somerset Ave WB	7450	478	83	
Somerset Ave EB	7180	461	80	
Somerset Ave EB	7180	461	80	
Somerset Ave WB	7180	461	80	
Somerset Ave WB	7180	461	80	
Somerset Ave EB	6945	446	77	
Somerset Ave EB	6945	446	77	
Somerset Ave WB	6945	446	77	
Somerset Ave WB	6945	446	77	
Downey Ave NB	6920	444	77	
Downey Ave NB	6920	444	77	
Downey Ave NB	6920	444	77	
Downey Ave SB	6920	444	77	
Downey Ave NB	6855	440	76	
Downey Ave SB	6855	440	76	
Downey Ave SB	6855	440	76	
Somerset Ave EB	6675	429	74	
Somerset Ave EB	6675	429	74	
Somerset Ave WB	6675	429	74	
Somerset Ave WB	6675	429	74	
Crude Refinery / Renewable Fuels Truck T	168	7	7	
Crude Refinery / Renewable Fuels Truck T	168	7	7	
Crude Refinery / Renewable Fuels Truck T	108	5	5	
Crude Refinery / Renewable Fuels Truck T	105	4	4	
Crude Operatoin Truck Truck Traffic	72	3	3	
Crude Operatoin Truck Truck Traffic LPG	48	2	2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Receiver SS-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.5 dB(A) Ld 7-19 dB(A) Leq,N 66.3 dB(A) Le 19-2					
2.8-Open Intake	47.2	40.5	40.5	40.5	
2011 Track Mobile switch moving rail cars 33 cars per day	47.9	50.9			
Air Compressor C 1	50.6	43.9	43.9	43.9	
Air Compressor Pump, Motor Fan CMXF -055	46.3	39.6	39.6	39.6	
Asphalt Production	60.8	54.2	54.2	54.2	
BFW Pumps P-073A&B	38.7	32.0	32.0	32.0	
Blower F 401	57.7	51.0	51.0	51.0	
Boiler Crude Unit-Heater Opening	43.7	37.0	37.0	37.0	
Brine Transfer P-085	51.9	45.2	45.2	45.2	
Burner H301 North	35.0	28.3	28.3	28.3	
Burner H301 South	37.5	30.9	30.9	30.9	
Burner H302 North	36.5	29.8	29.8	29.8	
Burner H302 South	39.4	32.7	32.7	32.7	
Burner H303 North	40.8	34.2	34.2	34.2	
Burner H303 South	51.3	44.6	44.6	44.6	
Burner H304 North	36.6	30.0	30.0	30.0	
Burner H304 South	43.0	36.3	36.3	36.3	
Burner H305 North	36.5	29.8	29.8	29.8	
Burner H305 South	38.8	32.2	32.2	32.2	
Burner H306 North	36.1	29.5	29.5	29.5	
Burner H306 South	36.5	29.8	29.8	29.8	
Compressor House C301, C302, C 124-Comp House East 1	53.5	46.8	46.8	46.8	
Compressor House C301, C302, C 124-Comp House East 2	53.2	46.5	46.5	46.5	
Compressor House C301, C302, C 124-Comp House North	41.6	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House South 1	54.4	47.8	47.8	47.8	
Compressor House C301, C302, C 124-Comp House South 2	48.1	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House West	45.6	39.0	39.0	39.0	
Cooling Tower CT 510-CT 510 East Side	47.4	40.7	40.7	40.7	
Cooling Tower CT 510-CT 510 West Side	55.9	49.3	49.3	49.3	
Cooling Tower CT 511-CT 511 East Side	35.8	29.1	29.1	29.1	
Cooling Tower CT 511-CT 511 West Side	53.3	46.6	46.6	46.6	
Cooling Tower M 512	50.7	44.0	44.0	44.0	
Cooling Tower M 513	52.4	45.7	45.7	45.7	
Cooling Tower M 514	50.6	43.9	43.9	43.9	
Crude Plant Operation 80 dB/m^2 at 1 m	56.8	50.2	50.2	50.2	
xxxx xxxx xxxx xxxx	26.6	19.9	19.9	19.9	
xxxx xxxx xxxx xxxx	40.0	33.4	33.4	33.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	56.7	50.0	50.0	50.0	
xxxx xxxx xxxx xxxx	42.4	35.5	37.8	35.5	
CT Y-600-CT Y-600 North	45.7	39.0	39.0	39.0	
CT Y-600-CT Y-600 South	40.1	33.4	33.4	33.4	
Deaerator Skid P-058A&B	49.8	43.1	43.1	43.1	
xxxx xxxx xxxx xxxx	36.0	34.5	32.8	26.9	
xxxx xxxx xxxx xxxx	35.5	34.0	32.2	26.3	
Exhaust Stack	55.7	49.1	49.1	49.1	
F.G. After Cooler XF-083ABC	51.9	45.3	45.3	45.3	
Fan Y-600	46.8	40.1	40.1	40.1	
FG Compressor Enclosure-FG Enclosure Roof	30.2	23.6	23.6	23.6	
FG Compressor Enclosure-FG Enclosure East	26.0	19.3	19.3	19.3	
FG Compressor Enclosure-FG Enclosure East Louver 1	12.3	5.6	5.6	5.6	
FG Compressor Enclosure-FG Enclosure North	28.2	21.5	21.5	21.5	
FG Compressor Enclosure-FG Enclosure South	27.4	20.8	20.8	20.8	
FG Compressor Enclosure-FG Enclosure West	29.6	22.9	22.9	22.9	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.4	15.7	15.7	15.7	
Fin Fan XF 616 - Above	30.8	24.2	24.2	24.2	
Fin Fan XF 616 - Below	47.5	40.9	40.9	40.9	
Fin Fan XF 617 - Above	27.6	20.9	20.9	20.9	
Fin Fan XF 617 - Below	43.3	36.6	36.6	36.6	
Heater # 5-Heater	28.5	21.8	21.8	21.8	
Heater # 5-Heater	30.8	24.1	24.1	24.1	
Heater # 5-Heater	34.9	28.2	28.2	28.2	
Heater H 601	35.1	28.4	28.4	28.4	
Hydro Heater H-402	42.2	35.6	35.6	35.6	
ID Fan	48.4	41.7	41.7	41.7	
ID Fan 200 HP Motor	39.3	32.6	32.6	32.6	
Incinirator Compressor & Motor	34.1	27.4	27.4	27.4	
Incinirator Fin Fan	37.2	30.5	30.5	30.5	
xxxx xxxx xxxx xxxx	24.6	23.1	21.4	15.4	
xxxx xxxx xxxx xxxx	24.6	23.1	21.4	15.5	
Lub Oil Cooler XF-061	54.0	47.3	47.3	47.3	
Misc pumps motors	41.4	34.8	34.8	34.8	
Motor & Pump P - 1502 Splitter Reflux Pu	50.0	43.4	43.4	43.4	
Motor & Pump P - 1503 Splitter Bottoms P	49.7	43.0	43.0	43.0	
Motor & Pump P - 1504 Splitter Bottoms P	49.5	42.9	42.9	42.9	
Motor & Pump P - 1507 Reactor Pump	40.7	34.1	34.1	34.1	
Motor & Pump P - 1508 Reactor Pump	42.1	35.4	35.4	35.4	
Motor & Pump P - 1511 Stabilizer Reflux	44.2	37.5	37.5	37.5	
Motor & Pump P - 1512 Stabilizer Reflux	48.9	42.2	42.2	42.2	
Motor & Pump P - 1513 Caustic Circulatin	48.9	42.3	42.3	42.3	
Motor & Pump P - 1514 Caustic Circulatin	49.4	42.8	42.8	42.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 120/121	34.0	27.3	27.3	27.3	
Motor & Pump P 1505 FRESH FEED PUMPS	33.4	26.7	26.7	26.7	
Motor & Pump P 1506 FRESH FEED PUMPS	46.9	40.3	40.3	40.3	
Motor & Pump P 1509 Chloride Injection P	39.5	32.8	32.8	32.8	
Motor & Pump P 1510 Chloride Injection P	39.3	32.6	32.6	32.6	
Motor & Pump P 1601 A	41.7	35.0	35.0	35.0	
Motor & Pump P 1601 B	43.5	36.8	36.8	36.8	
Motor & Pump P 1602 A	44.9	38.2	38.2	38.2	
Motor & Pump P 1602 B	41.8	35.1	35.1	35.1	
Motor & Pump P 211/212	43.9	37.2	37.2	37.2	
Motor & Pump P 215/214	46.4	39.7	39.7	39.7	
Motor & Pump P 216	53.7	47.0	47.0	47.0	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.7	42.1	42.1	42.1	
Motor & Pump P 301	53.8	47.1	47.1	47.1	
Motor & Pump P 302	48.7	42.0	42.0	42.0	
Motor & Pump P 303	48.5	41.9	41.9	41.9	
Motor & Pump P 305	48.9	42.2	42.2	42.2	
Motor & Pump P 306	62.2	55.5	55.5	55.5	
Motor & Pump P 307	54.0	47.3	47.3	47.3	
Motor & Pump P 309	48.8	42.2	42.2	42.2	
Motor & Pump P 312	54.6	47.9	47.9	47.9	
Motor & Pump P 313	54.6	48.0	48.0	48.0	
Motor & Pump P 315	56.2	49.5	49.5	49.5	
Motor & Pump P 316	56.3	49.6	49.6	49.6	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.7	47.0	47.0	47.0	
Motor & Pump P 319	53.6	46.9	46.9	46.9	
Motor & Pump P 327	48.2	41.5	41.5	41.5	
Motor & Pump P 328	60.1	53.4	53.4	53.4	
Motor & Pump P 329	60.4	53.7	53.7	53.7	
Motor & Pump P 451	41.1	34.5	34.5	34.5	
Motor & Pump P 453	46.0	39.3	39.3	39.3	
Motor & Pump P 454	35.8	29.1	29.1	29.1	
Motor & Pump P 457	47.2	40.6	40.6	40.6	
Motor & Pump P 458	34.3	27.6	27.6	27.6	
Motor & Pump P 459	35.6	29.0	29.0	29.0	
Motor & Pump P 56A/B	41.9	35.2	35.2	35.2	
P602 100 HP	29.4	22.7	22.7	22.7	
P603 60 HP	27.1	20.5	20.5	20.5	
P605 40 HP	27.2	20.5	20.5	20.5	
P607 15 HP	25.0	18.3	18.3	18.3	
P608 15 HP	25.3	18.6	18.6	18.6	
P611 15 HP	24.9	18.2	18.2	18.2	
P614/615 20 HP	30.5	23.8	23.8	23.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Rail Cars Bumping 6 times in during delivery	46.5	49.5			
Scanner Blower C-084A/B	47.1	40.4	40.4	40.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	20.6	14.0	14.0	14.0	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	24.0	17.3	17.3	17.3	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	21.6	15.0	15.0	15.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	25.4	18.7	18.7	18.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	26.6	20.0	20.0	20.0	
Solar Turbine T70 Boiler-Boiler East 1	25.6	19.0	19.0	19.0	
Solar Turbine T70 Boiler-Boiler East 2	19.5	12.8	12.8	12.8	
Solar Turbine T70 Boiler-Boiler North 1	34.8	28.1	28.1	28.1	
Solar Turbine T70 Boiler-Boiler North 2	25.4	18.7	18.7	18.7	
Solar Turbine T70 Boiler-Boiler Roof	35.5	28.8	28.8	28.8	
Solar Turbine T70 Boiler-Boiler South	43.1	36.4	36.4	36.4	
Solar Turbine T70 Boiler-Boiler South 2	27.5	20.9	20.9	20.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	36.9	30.3	30.3	30.3	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	54.9	48.3	48.3	48.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.4	44.7	44.7	44.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	56.3	49.6	49.6	49.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	43.3	36.7	36.7	36.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	43.2	36.5	36.5	36.5	
Solar Turbine T70 SCR-SCR Unit Roof	28.8	22.1	22.1	22.1	
Solar Turbine T70 SCR-SCR Unit NE	16.3	9.6	9.6	9.6	
Solar Turbine T70 SCR-SCR Unit North	25.1	18.4	18.4	18.4	
Solar Turbine T70 SCR-SCR Unit NW	23.5	16.8	16.8	16.8	
Solar Turbine T70 SCR-SCR Unit SE	23.9	17.2	17.2	17.2	
Solar Turbine T70 SCR-SCR Unit South	32.4	25.7	25.7	25.7	
Solar Turbine T70 SCR-SCR Unit SW	26.9	20.2	20.2	20.2	
xxxx xxxx xxxx xxxx	33.4	31.8	30.1	24.2	
xxxx xxxx xxxx xxxx	32.6	31.1	29.4	23.4	
Tank Farm Pump 1	41.7	35.0	35.0	35.0	
Tank Farm Pump 2	41.1	34.5	34.5	34.5	
Tank Farm Pump 3	40.7	34.0	34.0	34.0	
UP Train Locomotive Delivery and Pickup	42.8	45.8			
Vaporizer Blower 1	41.2	34.5	34.5	34.5	
Vaporizer Blower 2	41.2	34.5	34.5	34.5	
Vaporizer Inlet Silencer	23.7	17.0	17.0	17.0	
Vaporizer Motor 1	36.1	29.4	29.4	29.4	
Vaporizer Motor 2	36.2	29.5	29.5	29.5	
Water Treatment Pumps P-056A&B	43.9	37.2	37.2	37.2	
XF-1502 Splitter Area 1	52.3	45.6	45.6	45.6	
XF-1502 Splitter Area 2	52.7	46.0	46.0	46.0	
XF-1504 Splitter Area 1	52.1	45.5	45.5	45.5	
XF-1504 Splitter Area 2	48.6	41.9	41.9	41.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF - 1601	46.5	39.9	39.9	39.9	
XF - 1602	45.5	38.8	38.8	38.8	
XF 304, XF 321	56.7	50.0	50.0	50.0	
XF 313, XF 314	53.3	46.7	46.7	46.7	
XF 335-1, XF 335-2	55.6	49.0	49.0	49.0	
XF 503	61.6	54.9	54.9	54.9	
XF Module 1510	56.8	50.1	50.1	50.1	
XF Module 1519	57.1	50.5	50.5	50.5	
Receiver SS-1 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 66.4 dB(A) Le 19-					
2.8-Open Intake	47.3	40.7	40.7	40.7	
2011 Track Mobile switch moving rail cars 33 cars per day	47.8	50.8			
Air Compressor C 1	50.8	44.1	44.1	44.1	
Air Compressor Pump, Motor Fan CMXF -055	46.6	39.9	39.9	39.9	
Asphalt Production	61.5	54.8	54.8	54.8	
BFW Pumps P-073A&B	38.9	32.3	32.3	32.3	
Blower F 401	58.1	51.4	51.4	51.4	
Boiler Crude Unit-Heater Opening	45.6	39.0	39.0	39.0	
Brine Transfer P-085	51.6	45.0	45.0	45.0	
Burner H301 North	35.8	29.1	29.1	29.1	
Burner H301 South	38.9	32.2	32.2	32.2	
Burner H302 North	37.9	31.3	31.3	31.3	
Burner H302 South	40.8	34.1	34.1	34.1	
Burner H303 North	42.1	35.4	35.4	35.4	
Burner H303 South	51.7	45.0	45.0	45.0	
Burner H304 North	38.1	31.4	31.4	31.4	
Burner H304 South	44.3	37.6	37.6	37.6	
Burner H305 North	38.1	31.4	31.4	31.4	
Burner H305 South	39.8	33.2	33.2	33.2	
Burner H306 North	38.4	31.8	31.8	31.8	
Burner H306 South	38.1	31.4	31.4	31.4	
Compressor House C301, C302, C 124-Comp House East 1	54.4	47.7	47.7	47.7	
Compressor House C301, C302, C 124-Comp House East 2	53.7	47.0	47.0	47.0	
Compressor House C301, C302, C 124-Comp House North	44.8	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House South 1	55.0	48.3	48.3	48.3	
Compressor House C301, C302, C 124-Comp House South 2	49.0	42.3	42.3	42.3	
Compressor House C301, C302, C 124-Comp House West	46.2	39.5	39.5	39.5	
Cooling Tower CT 510-CT 510 East Side	45.9	39.3	39.3	39.3	
Cooling Tower CT 510-CT 510 West Side	56.3	49.7	49.7	49.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 East Side	33.9	27.3	27.3	27.3	
Cooling Tower CT 511-CT 511 West Side	53.8	47.2	47.2	47.2	
Cooling Tower M 512	50.2	43.5	43.5	43.5	
Cooling Tower M 513	51.9	45.3	45.3	45.3	
Cooling Tower M 514	50.1	43.4	43.4	43.4	
Crude Plant Operation 80 dB/m^2 at 1 m	57.0	50.4	50.4	50.4	
xxxx xxxx xxxx xxxx	26.1	19.4	19.4	19.4	
xxxx xxxx xxxx xxxx	40.1	33.5	33.5	33.5	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.0	50.3	50.3	50.3	
xxxx xxxx xxxx xxxx	43.0	36.1	38.4	36.1	
CT Y-600-CT Y-600 North	46.6	39.9	39.9	39.9	
CT Y-600-CT Y-600 South	40.7	34.0	34.0	34.0	
Deaerator Skid P-058A&B	50.2	43.5	43.5	43.5	
xxxx xxxx xxxx xxxx	38.1	36.6	34.9	29.0	
xxxx xxxx xxxx xxxx	37.8	36.3	34.5	28.6	
Exhaust Stack	56.3	49.6	49.6	49.6	
F.G. After Cooler XF-083ABC	52.7	46.0	46.0	46.0	
Fan Y-600	47.6	40.9	40.9	40.9	
FG Compressor Enclosure-FG Enclosure Roof	30.6	23.9	23.9	23.9	
FG Compressor Enclosure-FG Enclosure East	26.4	19.8	19.8	19.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	13.2	6.5	6.5	6.5	
FG Compressor Enclosure-FG Enclosure North	28.8	22.2	22.2	22.2	
FG Compressor Enclosure-FG Enclosure South	28.1	21.5	21.5	21.5	
FG Compressor Enclosure-FG Enclosure West	30.0	23.4	23.4	23.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.9	16.2	16.2	16.2	
Fin Fan XF 616 - Above	32.4	25.7	25.7	25.7	
Fin Fan XF 616 - Below	48.1	41.4	41.4	41.4	
Fin Fan XF 617 - Above	29.1	22.4	22.4	22.4	
Fin Fan XF 617 - Below	43.9	37.2	37.2	37.2	
Heater # 5-Heater	29.3	22.6	22.6	22.6	
Heater # 5-Heater	31.7	25.0	25.0	25.0	
Heater # 5-Heater	35.5	28.8	28.8	28.8	
Heater H 601	36.6	29.9	29.9	29.9	
Hydro Heater H-402	43.3	36.7	36.7	36.7	
ID Fan	49.9	43.3	43.3	43.3	
ID Fan 200 HP Motor	39.7	33.0	33.0	33.0	
Incinirator Compressor & Motor	34.6	27.9	27.9	27.9	
Incinirator Fin Fan	37.4	30.7	30.7	30.7	
xxxx xxxx xxxx xxxx	24.7	23.2	21.5	15.6	
xxxx xxxx xxxx xxxx	24.6	23.1	21.4	15.5	
Lub Oil Cooler XF-061	53.0	46.3	46.3	46.3	
Misc pumps motors	42.2	35.5	35.5	35.5	
Motor & Pump P - 1502 Splitter Reflux Pu	49.8	43.1	43.1	43.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	49.4	42.7	42.7	42.7	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1507 Reactor Pump	42.1	35.4	35.4	35.4	
Motor & Pump P - 1508 Reactor Pump	43.5	36.8	36.8	36.8	
Motor & Pump P - 1511 Stabilizer Reflux	44.7	38.0	38.0	38.0	
Motor & Pump P - 1512 Stabilizer Reflux	48.5	41.9	41.9	41.9	
Motor & Pump P - 1513 Caustic Circulatin	48.5	41.9	41.9	41.9	
Motor & Pump P - 1514 Caustic Circulatin	49.1	42.4	42.4	42.4	
Motor & Pump P 120/121	34.2	27.5	27.5	27.5	
Motor & Pump P 1505 FRESH FEED PUMPS	32.6	25.9	25.9	25.9	
Motor & Pump P 1506 FRESH FEED PUMPS	46.7	40.0	40.0	40.0	
Motor & Pump P 1509 Chloride Injection P	39.7	33.1	33.1	33.1	
Motor & Pump P 1510 Chloride Injection P	39.3	32.6	32.6	32.6	
Motor & Pump P 1601 A	43.6	36.9	36.9	36.9	
Motor & Pump P 1601 B	44.9	38.3	38.3	38.3	
Motor & Pump P 1602 A	46.0	39.3	39.3	39.3	
Motor & Pump P 1602 B	42.3	35.7	35.7	35.7	
Motor & Pump P 211/212	44.1	37.5	37.5	37.5	
Motor & Pump P 215/214	46.6	39.9	39.9	39.9	
Motor & Pump P 216	53.9	47.2	47.2	47.2	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.2	41.5	41.5	41.5	
Motor & Pump P 301	53.2	46.6	46.6	46.6	
Motor & Pump P 302	48.1	41.4	41.4	41.4	
Motor & Pump P 303	48.0	41.3	41.3	41.3	
Motor & Pump P 305	48.3	41.6	41.6	41.6	
Motor & Pump P 306	61.9	55.2	55.2	55.2	
Motor & Pump P 307	53.5	46.8	46.8	46.8	
Motor & Pump P 309	48.2	41.6	41.6	41.6	
Motor & Pump P 312	54.1	47.4	47.4	47.4	
Motor & Pump P 313	54.2	47.6	47.6	47.6	
Motor & Pump P 315	56.0	49.3	49.3	49.3	
Motor & Pump P 316	56.1	49.5	49.5	49.5	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.2	46.5	46.5	46.5	
Motor & Pump P 319	53.1	46.4	46.4	46.4	
Motor & Pump P 327	47.5	40.9	40.9	40.9	
Motor & Pump P 328	59.7	53.0	53.0	53.0	
Motor & Pump P 329	59.9	53.3	53.3	53.3	
Motor & Pump P 451	43.2	36.6	36.6	36.6	
Motor & Pump P 453	46.0	39.3	39.3	39.3	
Motor & Pump P 454	36.1	29.4	29.4	29.4	
Motor & Pump P 457	47.4	40.7	40.7	40.7	
Motor & Pump P 458	35.1	28.4	28.4	28.4	
Motor & Pump P 459	36.0	29.3	29.3	29.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 56A/B	43.2	36.5	36.5	36.5	
P602 100 HP	29.6	22.9	22.9	22.9	
P603 60 HP	27.0	20.4	20.4	20.4	
P605 40 HP	27.1	20.4	20.4	20.4	
P607 15 HP	25.0	18.4	18.4	18.4	
P608 15 HP	25.3	18.6	18.6	18.6	
P611 15 HP	24.9	18.2	18.2	18.2	
P614/615 20 HP	30.5	23.8	23.8	23.8	
Rail Cars Bumping 6 times in during delivery	46.8	49.8			
Scanner Blower C-084A/B	48.2	41.6	41.6	41.6	
Solar Turbine T70 2nd Boiler-2nd Boiler North	21.1	14.4	14.4	14.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	24.5	17.8	17.8	17.8	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.2	15.5	15.5	15.5	
Solar Turbine T70 2nd Boiler-2nd Boiler South	25.4	18.7	18.7	18.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	27.1	20.4	20.4	20.4	
Solar Turbine T70 Boiler-Boiler East 1	26.1	19.4	19.4	19.4	
Solar Turbine T70 Boiler-Boiler East 2	20.0	13.3	13.3	13.3	
Solar Turbine T70 Boiler-Boiler North 1	35.8	29.1	29.1	29.1	
Solar Turbine T70 Boiler-Boiler North 2	25.5	18.9	18.9	18.9	
Solar Turbine T70 Boiler-Boiler Roof	37.4	30.7	30.7	30.7	
Solar Turbine T70 Boiler-Boiler South	43.6	37.0	37.0	37.0	
Solar Turbine T70 Boiler-Boiler South 2	28.1	21.4	21.4	21.4	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	37.3	30.6	30.6	30.6	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	52.9	46.2	46.2	46.2	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.8	45.1	45.1	45.1	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	57.0	50.3	50.3	50.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	42.7	36.0	36.0	36.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	44.1	37.4	37.4	37.4	
Solar Turbine T70 SCR-SCR Unit Roof	28.8	22.1	22.1	22.1	
Solar Turbine T70 SCR-SCR Unit NE	17.5	10.8	10.8	10.8	
Solar Turbine T70 SCR-SCR Unit North	25.9	19.2	19.2	19.2	
Solar Turbine T70 SCR-SCR Unit NW	24.1	17.5	17.5	17.5	
Solar Turbine T70 SCR-SCR Unit SE	24.3	17.6	17.6	17.6	
Solar Turbine T70 SCR-SCR Unit South	32.9	26.3	26.3	26.3	
Solar Turbine T70 SCR-SCR Unit SW	27.4	20.8	20.8	20.8	
xxxx xxxx xxxx xxxx	35.0	33.5	31.8	25.9	
xxxx xxxx xxxx xxxx	33.9	32.4	30.7	24.8	
Tank Farm Pump 1	42.7	36.0	36.0	36.0	
Tank Farm Pump 2	41.4	34.7	34.7	34.7	
Tank Farm Pump 3	41.7	35.0	35.0	35.0	
UP Train Locomotive Delivery and Pickup	42.6	45.7			
Vaporizer Blower 1	40.9	34.2	34.2	34.2	
Vaporizer Blower 2	41.0	34.3	34.3	34.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Vaporizer Inlet Silencer	24.6	17.9	17.9	17.9	
Vaporizer Motor 1	35.8	29.2	29.2	29.2	
Vaporizer Motor 2	35.9	29.2	29.2	29.2	
Water Treatment Pumps P-056A&B	43.6	36.9	36.9	36.9	
XF-1502 Splitter Area 1	52.9	46.3	46.3	46.3	
XF-1502 Splitter Area 2	53.1	46.5	46.5	46.5	
XF-1504 Splitter Area 1	52.8	46.1	46.1	46.1	
XF-1504 Splitter Area 2	49.0	42.4	42.4	42.4	
XF - 1601	47.3	40.7	40.7	40.7	
XF - 1602	46.9	40.3	40.3	40.3	
XF 304, XF 321	57.9	51.2	51.2	51.2	
XF 313, XF 314	53.6	46.9	46.9	46.9	
XF 335-1, XF 335-2	56.7	50.0	50.0	50.0	
XF 503	61.6	54.9	54.9	54.9	
XF Module 1510	57.1	50.5	50.5	50.5	
XF Module 1519	57.5	50.8	50.8	50.8	
Receiver SS-1 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.9 dB(A)	Ld 7-19 dB(A)	Leq,N 66.7 dB(A)	Le 19-
2.8-Open Intake	47.5	40.8	40.8	40.8	
2011 Track Mobile switch moving rail cars 33 cars per day	47.8	50.8			
Air Compressor C 1	52.8	46.2	46.2	46.2	
Air Compressor Pump, Motor Fan CMXF -055	47.6	40.9	40.9	40.9	
Asphalt Production	60.9	54.2	54.2	54.2	
BFW Pumps P-073A&B	39.1	32.5	32.5	32.5	
Blower F 401	58.6	51.9	51.9	51.9	
Boiler Crude Unit-Heater Opening	45.9	39.3	39.3	39.3	
Brine Transfer P-085	51.8	45.1	45.1	45.1	
Burner H301 North	35.8	29.1	29.1	29.1	
Burner H301 South	40.1	33.4	33.4	33.4	
Burner H302 North	38.5	31.9	31.9	31.9	
Burner H302 South	41.6	35.0	35.0	35.0	
Burner H303 North	43.2	36.5	36.5	36.5	
Burner H303 South	52.3	45.6	45.6	45.6	
Burner H304 North	38.5	31.8	31.8	31.8	
Burner H304 South	45.1	38.4	38.4	38.4	
Burner H305 North	38.7	32.0	32.0	32.0	
Burner H305 South	40.2	33.5	33.5	33.5	
Burner H306 North	39.3	32.6	32.6	32.6	
Burner H306 South	38.6	31.9	31.9	31.9	
Compressor House C301, C302, C 124-Comp House East 1	54.9	48.2	48.2	48.2	
Compressor House C301, C302, C 124-Comp House East 2	53.7	47.1	47.1	47.1	
Compressor House C301, C302, C 124-Comp House North	45.9	39.2	39.2	39.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	55.1	48.5	48.5	48.5	
Compressor House C301, C302, C 124-Comp House South 2	49.4	42.7	42.7	42.7	
Compressor House C301, C302, C 124-Comp House West	46.2	39.6	39.6	39.6	
Cooling Tower CT 510-CT 510 East Side	46.0	39.3	39.3	39.3	
Cooling Tower CT 510-CT 510 West Side	56.4	49.7	49.7	49.7	
Cooling Tower CT 511-CT 511 East Side	34.7	28.0	28.0	28.0	
Cooling Tower CT 511-CT 511 West Side	54.4	47.7	47.7	47.7	
Cooling Tower M 512	50.7	44.0	44.0	44.0	
Cooling Tower M 513	52.0	45.3	45.3	45.3	
Cooling Tower M 514	50.6	43.9	43.9	43.9	
Crude Plant Operation 80 dB/m^2 at 1 m	56.8	50.1	50.1	50.1	
xxxx xxxx xxxx xxxx	26.7	20.1	20.1	20.1	
xxxx xxxx xxxx xxxx	41.0	34.3	34.3	34.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	56.9	50.2	50.2	50.2	
xxxx xxxx xxxx xxxx	43.7	36.8	39.1	36.8	
CT Y-600-CT Y-600 North	47.0	40.3	40.3	40.3	
CT Y-600-CT Y-600 South	41.3	34.6	34.6	34.6	
Deaerator Skid P-058A&B	50.4	43.7	43.7	43.7	
xxxx xxxx xxxx xxxx	39.5	38.0	36.2	30.3	
xxxx xxxx xxxx xxxx	39.1	37.6	35.9	30.0	
Exhaust Stack	56.4	49.7	49.7	49.7	
F.G. After Cooler XF-083ABC	51.6	44.9	44.9	44.9	
Fan Y-600	48.1	41.5	41.5	41.5	
FG Compressor Enclosure-FG Enclosure Roof	30.8	24.1	24.1	24.1	
FG Compressor Enclosure-FG Enclosure East	26.7	20.0	20.0	20.0	
FG Compressor Enclosure-FG Enclosure East Louver 1	12.8	6.1	6.1	6.1	
FG Compressor Enclosure-FG Enclosure North	29.5	22.9	22.9	22.9	
FG Compressor Enclosure-FG Enclosure South	28.6	21.9	21.9	21.9	
FG Compressor Enclosure-FG Enclosure West	30.5	23.8	23.8	23.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	23.2	16.5	16.5	16.5	
Fin Fan XF 616 - Above	33.6	26.9	26.9	26.9	
Fin Fan XF 616 - Below	47.8	41.2	41.2	41.2	
Fin Fan XF 617 - Above	30.2	23.6	23.6	23.6	
Fin Fan XF 617 - Below	43.6	36.9	36.9	36.9	
Heater # 5-Heater	29.2	22.5	22.5	22.5	
Heater # 5-Heater	31.6	25.0	25.0	25.0	
Heater # 5-Heater	35.3	28.6	28.6	28.6	
Heater H 601	37.1	30.4	30.4	30.4	
Hydro Heater H-402	43.9	37.2	37.2	37.2	
ID Fan	50.5	43.8	43.8	43.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan 200 HP Motor	39.9	33.2	33.2	33.2	
Incinirator Compressor & Motor	34.5	27.8	27.8	27.8	
Incinirator Fin Fan	37.1	30.5	30.5	30.5	
xxxx xxxx xxxx xxxx	25.3	23.8	22.1	16.2	
xxxx xxxx xxxx xxxx	25.3	23.8	22.1	16.2	
Lub Oil Cooler XF-061	53.0	46.3	46.3	46.3	
Misc pumps motors	43.0	36.3	36.3	36.3	
Motor & Pump P - 1502 Splitter Reflux Pu	49.8	43.1	43.1	43.1	
Motor & Pump P - 1503 Splitter Bottoms P	49.4	42.7	42.7	42.7	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1507 Reactor Pump	46.3	39.7	39.7	39.7	
Motor & Pump P - 1508 Reactor Pump	47.2	40.5	40.5	40.5	
Motor & Pump P - 1511 Stabilizer Reflux	44.8	38.2	38.2	38.2	
Motor & Pump P - 1512 Stabilizer Reflux	48.5	41.9	41.9	41.9	
Motor & Pump P - 1513 Caustic Circulatin	48.6	41.9	41.9	41.9	
Motor & Pump P - 1514 Caustic Circulatin	49.1	42.5	42.5	42.5	
Motor & Pump P 120/121	37.8	31.1	31.1	31.1	
Motor & Pump P 1505 FRESH FEED PUMPS	42.1	35.5	35.5	35.5	
Motor & Pump P 1506 FRESH FEED PUMPS	48.6	41.9	41.9	41.9	
Motor & Pump P 1509 Chloride Injection P	44.5	37.9	37.9	37.9	
Motor & Pump P 1510 Chloride Injection P	44.4	37.7	37.7	37.7	
Motor & Pump P 1601 A	47.4	40.7	40.7	40.7	
Motor & Pump P 1601 B	47.4	40.8	40.8	40.8	
Motor & Pump P 1602 A	45.0	38.3	38.3	38.3	
Motor & Pump P 1602 B	42.5	35.8	35.8	35.8	
Motor & Pump P 211/212	44.1	37.5	37.5	37.5	
Motor & Pump P 215/214	46.5	39.9	39.9	39.9	
Motor & Pump P 216	53.9	47.2	47.2	47.2	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.2	41.5	41.5	41.5	
Motor & Pump P 301	53.3	46.6	46.6	46.6	
Motor & Pump P 302	48.1	41.4	41.4	41.4	
Motor & Pump P 303	48.0	41.3	41.3	41.3	
Motor & Pump P 305	48.3	41.7	41.7	41.7	
Motor & Pump P 306	62.0	55.3	55.3	55.3	
Motor & Pump P 307	53.5	46.8	46.8	46.8	
Motor & Pump P 309	48.3	41.6	41.6	41.6	
Motor & Pump P 312	54.1	47.4	47.4	47.4	
Motor & Pump P 313	54.2	47.6	47.6	47.6	
Motor & Pump P 315	56.0	49.3	49.3	49.3	
Motor & Pump P 316	56.1	49.5	49.5	49.5	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.2	46.5	46.5	46.5	
Motor & Pump P 319	53.1	46.4	46.4	46.4	
Motor & Pump P 327	48.5	41.9	41.9	41.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 328	59.8	53.1	53.1	53.1	
Motor & Pump P 329	60.0	53.3	53.3	53.3	
Motor & Pump P 451	44.5	37.8	37.8	37.8	
Motor & Pump P 453	46.4	39.8	39.8	39.8	
Motor & Pump P 454	36.7	30.1	30.1	30.1	
Motor & Pump P 457	47.7	41.0	41.0	41.0	
Motor & Pump P 458	38.4	31.7	31.7	31.7	
Motor & Pump P 459	36.7	30.0	30.0	30.0	
Motor & Pump P 56A/B	42.3	35.6	35.6	35.6	
P602 100 HP	29.5	22.9	22.9	22.9	
P603 60 HP	26.9	20.2	20.2	20.2	
P605 40 HP	27.0	20.3	20.3	20.3	
P607 15 HP	24.8	18.1	18.1	18.1	
P608 15 HP	25.0	18.3	18.3	18.3	
P611 15 HP	24.7	18.0	18.0	18.0	
P614/615 20 HP	30.8	24.2	24.2	24.2	
Rail Cars Bumping 6 times in during delivery	46.9	50.0			
Scanner Blower C-084A/B	48.7	42.1	42.1	42.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	21.6	14.9	14.9	14.9	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	24.8	18.1	18.1	18.1	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.5	15.8	15.8	15.8	
Solar Turbine T70 2nd Boiler-2nd Boiler South	25.4	18.7	18.7	18.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	27.0	20.4	20.4	20.4	
Solar Turbine T70 Boiler-Boiler East 1	27.0	20.3	20.3	20.3	
Solar Turbine T70 Boiler-Boiler East 2	21.9	15.3	15.3	15.3	
Solar Turbine T70 Boiler-Boiler North 1	36.2	29.5	29.5	29.5	
Solar Turbine T70 Boiler-Boiler North 2	26.6	19.9	19.9	19.9	
Solar Turbine T70 Boiler-Boiler Roof	35.9	29.2	29.2	29.2	
Solar Turbine T70 Boiler-Boiler South	43.6	37.0	37.0	37.0	
Solar Turbine T70 Boiler-Boiler South 2	29.2	22.6	22.6	22.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	39.4	32.8	32.8	32.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	53.0	46.3	46.3	46.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.6	44.9	44.9	44.9	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	57.1	50.5	50.5	50.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	42.8	36.2	36.2	36.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	44.4	37.7	37.7	37.7	
Solar Turbine T70 SCR-SCR Unit Roof	29.1	22.4	22.4	22.4	
Solar Turbine T70 SCR-SCR Unit NE	17.8	11.1	11.1	11.1	
Solar Turbine T70 SCR-SCR Unit North	26.4	19.7	19.7	19.7	
Solar Turbine T70 SCR-SCR Unit NW	24.7	18.0	18.0	18.0	
Solar Turbine T70 SCR-SCR Unit SE	24.4	17.8	17.8	17.8	
Solar Turbine T70 SCR-SCR Unit South	33.1	26.4	26.4	26.4	
Solar Turbine T70 SCR-SCR Unit SW	27.8	21.1	21.1	21.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	36.1	34.6	32.9	27.0	
xxxx xxxx xxxx xxxx	35.3	33.8	32.1	26.2	
Tank Farm Pump 1	42.2	35.5	35.5	35.5	
Tank Farm Pump 2	40.1	33.4	33.4	33.4	
Tank Farm Pump 3	41.8	35.1	35.1	35.1	
UP Train Locomotive Delivery and Pickup	42.5	45.5			
Vaporizer Blower 1	40.9	34.3	34.3	34.3	
Vaporizer Blower 2	41.0	34.4	34.4	34.4	
Vaporizer Inlet Silencer	24.9	18.2	18.2	18.2	
Vaporizer Motor 1	35.9	29.2	29.2	29.2	
Vaporizer Motor 2	35.9	29.3	29.3	29.3	
Water Treatment Pumps P-056A&B	43.6	36.9	36.9	36.9	
XF-1502 Splitter Area 1	53.0	46.3	46.3	46.3	
XF-1502 Splitter Area 2	53.2	46.5	46.5	46.5	
XF-1504 Splitter Area 1	52.8	46.2	46.2	46.2	
XF-1504 Splitter Area 2	49.1	42.4	42.4	42.4	
XF - 1601	47.5	40.8	40.8	40.8	
XF - 1602	47.3	40.6	40.6	40.6	
XF 304, XF 321	59.6	52.9	52.9	52.9	
XF 313, XF 314	53.9	47.3	47.3	47.3	
XF 335-1, XF 335-2	58.5	51.8	51.8	51.8	
XF 503	61.7	55.0	55.0	55.0	
XF Module 1510	57.2	50.5	50.5	50.5	
XF Module 1519	57.6	50.9	50.9	50.9	
Receiver SS-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.2 dB(A) Ld 7-19 dB(A) Leq,N 64.9 dB(A) Le 19-2					
2.8-Open Intake	48.0	41.4	41.4	41.4	
2011 Track Mobile switch moving rail cars 33 cars per day	48.4	51.4			
Air Compressor C 1	49.5	42.8	42.8	42.8	
Air Compressor Pump, Motor Fan CMXF -055	39.0	32.4	32.4	32.4	
Asphalt Production	62.0	55.4	55.4	55.4	
BFW Pumps P-073A&B	49.5	42.8	42.8	42.8	
Blower F 401	56.3	49.6	49.6	49.6	
Boiler Crude Unit-Heater Opening	45.0	38.3	38.3	38.3	
Brine Transfer P-085	53.4	46.7	46.7	46.7	
Burner H301 North	34.1	27.5	27.5	27.5	
Burner H301 South	37.7	31.0	31.0	31.0	
Burner H302 North	35.3	28.7	28.7	28.7	
Burner H302 South	39.0	32.3	32.3	32.3	
Burner H303 North	38.2	31.6	31.6	31.6	
Burner H303 South	49.9	43.2	43.2	43.2	
Burner H304 North	36.3	29.6	29.6	29.6	
Burner H304 South	40.0	33.3	33.3	33.3	
Burner H305 North	37.8	31.2	31.2	31.2	
Burner H305 South	36.5	29.8	29.8	29.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H306 North	36.3	29.7	29.7	29.7	
Burner H306 South	37.7	31.0	31.0	31.0	
Compressor House C301, C302, C 124-Comp House East 1	54.1	47.4	47.4	47.4	
Compressor House C301, C302, C 124-Comp House East 2	52.6	45.9	45.9	45.9	
Compressor House C301, C302, C 124-Comp House North	40.8	34.2	34.2	34.2	
Compressor House C301, C302, C 124-Comp House South 1	53.3	46.7	46.7	46.7	
Compressor House C301, C302, C 124-Comp House South 2	47.7	41.0	41.0	41.0	
Compressor House C301, C302, C 124-Comp House West	43.4	36.7	36.7	36.7	
Cooling Tower CT 510-CT 510 East Side	30.6	23.9	23.9	23.9	
Cooling Tower CT 510-CT 510 West Side	56.1	49.4	49.4	49.4	
Cooling Tower CT 511-CT 511 East Side	34.6	28.0	28.0	28.0	
Cooling Tower CT 511-CT 511 West Side	50.2	43.6	43.6	43.6	
Cooling Tower M 512	53.2	46.5	46.5	46.5	
Cooling Tower M 513	53.0	46.4	46.4	46.4	
Cooling Tower M 514	53.0	46.3	46.3	46.3	
Crude Plant Operation 80 dB/m^2 at 1 m	57.2	50.5	50.5	50.5	
xxxx xxxx xxxx xxxx	25.3	18.7	18.7	18.7	
xxxx xxxx xxxx xxxx	39.7	33.0	33.0	33.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.0	50.4	50.4	50.4	
xxxx xxxx xxxx xxxx	42.5	35.6	37.9	35.6	
CT Y-600-CT Y-600 North	43.7	37.0	37.0	37.0	
CT Y-600-CT Y-600 South	41.7	35.0	35.0	35.0	
Deaerator Skid P-058A&B	52.0	45.4	45.4	45.4	
xxxx xxxx xxxx xxxx	35.4	33.9	32.2	26.3	
xxxx xxxx xxxx xxxx	35.4	33.9	32.2	26.3	
Exhaust Stack	56.6	49.9	49.9	49.9	
F.G. After Cooler XF-083ABC	51.9	45.2	45.2	45.2	
Fan Y-600	47.5	40.8	40.8	40.8	
FG Compressor Enclosure-FG Enclosure Roof	31.0	24.3	24.3	24.3	
FG Compressor Enclosure-FG Enclosure East	26.2	19.5	19.5	19.5	
FG Compressor Enclosure-FG Enclosure East Louver 1	13.2	6.5	6.5	6.5	
FG Compressor Enclosure-FG Enclosure North	27.4	20.7	20.7	20.7	
FG Compressor Enclosure-FG Enclosure South	28.5	21.9	21.9	21.9	
FG Compressor Enclosure-FG Enclosure West	29.9	23.2	23.2	23.2	
FG Compressor Enclosure-FG Enclosure West Louver 3	21.3	14.6	14.6	14.6	
Fin Fan XF 616 - Above	31.3	24.6	24.6	24.6	
Fin Fan XF 616 - Below	48.6	41.9	41.9	41.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Fin Fan XF 617 - Above	28.0	21.3	21.3	21.3	
Fin Fan XF 617 - Below	44.3	37.6	37.6	37.6	
Heater # 5-Heater	30.3	23.6	23.6	23.6	
Heater # 5-Heater	32.2	25.6	25.6	25.6	
Heater # 5-Heater	36.1	29.4	29.4	29.4	
Heater H 601	36.1	29.4	29.4	29.4	
Hydro Heater H-402	49.6	42.9	42.9	42.9	
ID Fan	47.5	40.8	40.8	40.8	
ID Fan 200 HP Motor	37.3	30.7	30.7	30.7	
Incinirator Compressor & Motor	35.1	28.4	28.4	28.4	
Incinirator Fin Fan	38.1	31.5	31.5	31.5	
xxxx xxxx xxxx xxxx	24.0	22.5	20.8	14.9	
xxxx xxxx xxxx xxxx	24.1	22.5	20.8	14.9	
Lub Oil Cooler XF-061	54.2	47.6	47.6	47.6	
Misc pumps motors	41.3	34.6	34.6	34.6	
Motor & Pump P - 1502 Splitter Reflux Pu	41.1	34.4	34.4	34.4	
Motor & Pump P - 1503 Splitter Bottoms P	45.0	38.3	38.3	38.3	
Motor & Pump P - 1504 Splitter Bottoms P	46.0	39.4	39.4	39.4	
Motor & Pump P - 1507 Reactor Pump	39.9	33.3	33.3	33.3	
Motor & Pump P - 1508 Reactor Pump	40.9	34.2	34.2	34.2	
Motor & Pump P - 1511 Stabilizer Reflux	35.6	29.0	29.0	29.0	
Motor & Pump P - 1512 Stabilizer Reflux	38.6	31.9	31.9	31.9	
Motor & Pump P - 1513 Caustic Circulatin	48.6	41.9	41.9	41.9	
Motor & Pump P - 1514 Caustic Circulatin	41.9	35.2	35.2	35.2	
Motor & Pump P 120/121	34.2	27.5	27.5	27.5	
Motor & Pump P 1505 FRESH FEED PUMPS	36.2	29.6	29.6	29.6	
Motor & Pump P 1506 FRESH FEED PUMPS	37.8	31.1	31.1	31.1	
Motor & Pump P 1509 Chloride Injection P	42.8	36.1	36.1	36.1	
Motor & Pump P 1510 Chloride Injection P	42.7	36.1	36.1	36.1	
Motor & Pump P 1601 A	38.1	31.4	31.4	31.4	
Motor & Pump P 1601 B	33.7	27.1	27.1	27.1	
Motor & Pump P 1602 A	30.2	23.5	23.5	23.5	
Motor & Pump P 1602 B	29.8	23.1	23.1	23.1	
Motor & Pump P 211/212	47.9	41.3	41.3	41.3	
Motor & Pump P 215/214	48.7	42.1	42.1	42.1	
Motor & Pump P 216	52.3	45.6	45.6	45.6	
Motor & Pump P 217/218	48.2	41.5	41.5	41.5	
Motor & Pump P 300	41.7	35.0	35.0	35.0	
Motor & Pump P 301	47.5	40.8	40.8	40.8	
Motor & Pump P 302	40.5	33.9	33.9	33.9	
Motor & Pump P 303	40.2	33.5	33.5	33.5	
Motor & Pump P 305	39.9	33.2	33.2	33.2	
Motor & Pump P 306	52.6	46.0	46.0	46.0	
Motor & Pump P 307	50.1	43.4	43.4	43.4	
Motor & Pump P 309	39.2	32.6	32.6	32.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 312	53.9	47.2	47.2	47.2	
Motor & Pump P 313	53.9	47.3	47.3	47.3	
Motor & Pump P 315	55.4	48.8	48.8	48.8	
Motor & Pump P 316	55.3	48.6	48.6	48.6	
Motor & Pump P 317	55.2	48.5	48.5	48.5	
Motor & Pump P 318	52.9	46.2	46.2	46.2	
Motor & Pump P 319	52.8	46.1	46.1	46.1	
Motor & Pump P 327	42.0	35.3	35.3	35.3	
Motor & Pump P 328	52.2	45.5	45.5	45.5	
Motor & Pump P 329	51.2	44.6	44.6	44.6	
Motor & Pump P 451	41.0	34.3	34.3	34.3	
Motor & Pump P 453	49.2	42.5	42.5	42.5	
Motor & Pump P 454	44.2	37.6	37.6	37.6	
Motor & Pump P 457	49.3	42.6	42.6	42.6	
Motor & Pump P 458	40.1	33.4	33.4	33.4	
Motor & Pump P 459	44.2	37.6	37.6	37.6	
Motor & Pump P 56A/B	40.4	33.8	33.8	33.8	
P602 100 HP	29.0	22.3	22.3	22.3	
P603 60 HP	28.8	22.2	22.2	22.2	
P605 40 HP	28.1	21.4	21.4	21.4	
P607 15 HP	27.9	21.2	21.2	21.2	
P608 15 HP	25.5	18.8	18.8	18.8	
P611 15 HP	25.0	18.3	18.3	18.3	
P614/615 20 HP	30.0	23.3	23.3	23.3	
Rail Cars Bumping 6 times in during delivery	46.3	49.3			
Scanner Blower C-084A/B	46.6	39.9	39.9	39.9	
Solar Turbine T70 2nd Boiler-2nd Boiler North	21.5	14.8	14.8	14.8	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	19.3	12.6	12.6	12.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.0	15.3	15.3	15.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	26.6	20.0	20.0	20.0	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	26.0	19.3	19.3	19.3	
Solar Turbine T70 Boiler-Boiler East 1	22.3	15.6	15.6	15.6	
Solar Turbine T70 Boiler-Boiler East 2	20.5	13.9	13.9	13.9	
Solar Turbine T70 Boiler-Boiler North 1	40.6	33.9	33.9	33.9	
Solar Turbine T70 Boiler-Boiler North 2	29.8	23.2	23.2	23.2	
Solar Turbine T70 Boiler-Boiler Roof	36.9	30.2	30.2	30.2	
Solar Turbine T70 Boiler-Boiler South	43.8	37.2	37.2	37.2	
Solar Turbine T70 Boiler-Boiler South 2	24.5	17.8	17.8	17.8	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	36.6	29.9	29.9	29.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	55.3	48.6	48.6	48.6	
Solar Turbine T70 Enclosure-T70 Encl. Roof	52.0	45.3	45.3	45.3	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	52.8	46.2	46.2	46.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	46.2	39.5	39.5	39.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	42.3	35.6	35.6	35.6	
Solar Turbine T70 SCR-SCR Unit Roof	29.6	22.9	22.9	22.9	
Solar Turbine T70 SCR-SCR Unit NE	22.0	15.3	15.3	15.3	
Solar Turbine T70 SCR-SCR Unit North	28.2	21.5	21.5	21.5	
Solar Turbine T70 SCR-SCR Unit NW	21.6	15.0	15.0	15.0	
Solar Turbine T70 SCR-SCR Unit SE	23.8	17.1	17.1	17.1	
Solar Turbine T70 SCR-SCR Unit South	33.8	27.1	27.1	27.1	
Solar Turbine T70 SCR-SCR Unit SW	29.5	22.8	22.8	22.8	
xxxx xxxx xxxx xxxx	36.7	35.2	33.5	27.5	
xxxx xxxx xxxx xxxx	36.0	34.5	32.8	26.8	
Tank Farm Pump 1	40.2	33.5	33.5	33.5	
Tank Farm Pump 2	40.7	34.0	34.0	34.0	
Tank Farm Pump 3	41.0	34.3	34.3	34.3	
UP Train Locomotive Delivery and Pickup	42.5	45.5			
Vaporizer Blower 1	43.9	37.2	37.2	37.2	
Vaporizer Blower 2	43.9	37.2	37.2	37.2	
Vaporizer Inlet Silencer	25.7	19.1	19.1	19.1	
Vaporizer Motor 1	38.9	32.2	32.2	32.2	
Vaporizer Motor 2	38.9	32.2	32.2	32.2	
Water Treatment Pumps P-056A&B	49.2	42.5	42.5	42.5	
XF-1502 Splitter Area 1	51.7	45.1	45.1	45.1	
XF-1502 Splitter Area 2	52.2	45.5	45.5	45.5	
XF-1504 Splitter Area 1	47.9	41.2	41.2	41.2	
XF-1504 Splitter Area 2	47.7	41.0	41.0	41.0	
XF - 1601	45.7	39.0	39.0	39.0	
XF - 1602	46.2	39.5	39.5	39.5	
XF 304, XF 321	56.4	49.7	49.7	49.7	
XF 313, XF 314	53.5	46.9	46.9	46.9	
XF 335-1, XF 335-2	55.1	48.4	48.4	48.4	
XF 503	58.9	52.3	52.3	52.3	
XF Module 1510	55.3	48.6	48.6	48.6	
XF Module 1519	55.3	48.6	48.6	48.6	
Receiver SS-2 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.7 dB(A) Ld 7-19 dB(A) Leq,N 65.4 dB(A) Le 19-					
2.8-Open Intake	48.1	41.5	41.5	41.5	
2011 Track Mobile switch moving rail cars 33 cars per day	48.4	51.4			
Air Compressor C 1	49.8	43.1	43.1	43.1	
Air Compressor Pump, Motor Fan CMXF -055	39.8	33.1	33.1	33.1	
Asphalt Production	62.5	55.8	55.8	55.8	
BFW Pumps P-073A&B	49.5	42.8	42.8	42.8	
Blower F 401	56.9	50.3	50.3	50.3	
Boiler Crude Unit-Heater Opening	46.6	40.0	40.0	40.0	
Brine Transfer P-085	53.2	46.5	46.5	46.5	
Burner H301 North	34.5	27.8	27.8	27.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H301 South	39.0	32.3	32.3	32.3	
Burner H302 North	36.4	29.8	29.8	29.8	
Burner H302 South	40.6	33.9	33.9	33.9	
Burner H303 North	40.7	34.0	34.0	34.0	
Burner H303 South	49.9	43.2	43.2	43.2	
Burner H304 North	37.8	31.2	31.2	31.2	
Burner H304 South	41.8	35.1	35.1	35.1	
Burner H305 North	39.7	33.1	33.1	33.1	
Burner H305 South	38.0	31.3	31.3	31.3	
Burner H306 North	38.1	31.5	31.5	31.5	
Burner H306 South	39.9	33.2	33.2	33.2	
Compressor House C301, C302, C 124-Comp House East 1	55.1	48.4	48.4	48.4	
Compressor House C301, C302, C 124-Comp House East 2	53.3	46.6	46.6	46.6	
Compressor House C301, C302, C 124-Comp House North	43.7	37.0	37.0	37.0	
Compressor House C301, C302, C 124-Comp House South 1	54.0	47.3	47.3	47.3	
Compressor House C301, C302, C 124-Comp House South 2	48.5	41.9	41.9	41.9	
Compressor House C301, C302, C 124-Comp House West	44.0	37.3	37.3	37.3	
Cooling Tower CT 510-CT 510 East Side	31.3	24.6	24.6	24.6	
Cooling Tower CT 510-CT 510 West Side	56.5	49.8	49.8	49.8	
Cooling Tower CT 511-CT 511 East Side	35.4	28.7	28.7	28.7	
Cooling Tower CT 511-CT 511 West Side	51.3	44.7	44.7	44.7	
Cooling Tower M 512	53.1	46.4	46.4	46.4	
Cooling Tower M 513	52.8	46.2	46.2	46.2	
Cooling Tower M 514	53.1	46.4	46.4	46.4	
Crude Plant Operation 80 dB/m^2 at 1 m	57.4	50.8	50.8	50.8	
xxxx xxxx xxxx xxxx	24.7	18.0	18.0	18.0	
xxxx xxxx xxxx xxxx	40.0	33.3	33.3	33.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.4	50.7	50.7	50.7	
xxxx xxxx xxxx xxxx	43.0	36.0	38.4	36.0	
CT Y-600-CT Y-600 North	44.4	37.8	37.8	37.8	
CT Y-600-CT Y-600 South	42.4	35.7	35.7	35.7	
Deaerator Skid P-058A&B	50.7	44.0	44.0	44.0	
xxxx xxxx xxxx xxxx	36.7	35.2	33.5	27.6	
xxxx xxxx xxxx xxxx	36.6	35.1	33.4	27.5	
Exhaust Stack	57.1	50.4	50.4	50.4	
F.G. After Cooler XF-083ABC	52.7	46.0	46.0	46.0	
Fan Y-600	48.6	41.9	41.9	41.9	
FG Compressor Enclosure-FG Enclosure Roof	31.4	24.7	24.7	24.7	
FG Compressor Enclosure-FG Enclosure East	26.6	20.0	20.0	20.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FG Compressor Enclosure-FG Enclosure East Louver 1	14.2	7.6	7.6	7.6	
FG Compressor Enclosure-FG Enclosure North	28.6	22.0	22.0	22.0	
FG Compressor Enclosure-FG Enclosure South	29.1	22.4	22.4	22.4	
FG Compressor Enclosure-FG Enclosure West	30.6	23.9	23.9	23.9	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.2	15.6	15.6	15.6	
Fin Fan XF 616 - Above	33.0	26.3	26.3	26.3	
Fin Fan XF 616 - Below	49.2	42.6	42.6	42.6	
Fin Fan XF 617 - Above	29.7	23.0	23.0	23.0	
Fin Fan XF 617 - Below	45.0	38.3	38.3	38.3	
Heater # 5-Heater	31.1	24.4	24.4	24.4	
Heater # 5-Heater	33.1	26.5	26.5	26.5	
Heater # 5-Heater	36.6	30.0	30.0	30.0	
Heater H 601	37.3	30.7	30.7	30.7	
Hydro Heater H-402	50.8	44.1	44.1	44.1	
ID Fan	48.9	42.2	42.2	42.2	
ID Fan 200 HP Motor	37.3	30.6	30.6	30.6	
Incinirator Compressor & Motor	35.6	28.9	28.9	28.9	
Incinirator Fin Fan	38.3	31.6	31.6	31.6	
xxxx xxxx xxxx xxxx	24.5	23.0	21.3	15.4	
xxxx xxxx xxxx xxxx	24.7	23.2	21.5	15.6	
Lub Oil Cooler XF-061	54.1	47.4	47.4	47.4	
Misc pumps motors	42.9	36.3	36.3	36.3	
Motor & Pump P - 1502 Splitter Reflux Pu	41.2	34.6	34.6	34.6	
Motor & Pump P - 1503 Splitter Bottoms P	44.8	38.1	38.1	38.1	
Motor & Pump P - 1504 Splitter Bottoms P	45.9	39.2	39.2	39.2	
Motor & Pump P - 1507 Reactor Pump	40.7	34.0	34.0	34.0	
Motor & Pump P - 1508 Reactor Pump	41.8	35.1	35.1	35.1	
Motor & Pump P - 1511 Stabilizer Reflux	36.4	29.8	29.8	29.8	
Motor & Pump P - 1512 Stabilizer Reflux	39.9	33.3	33.3	33.3	
Motor & Pump P - 1513 Caustic Circulatin	48.2	41.5	41.5	41.5	
Motor & Pump P - 1514 Caustic Circulatin	42.4	35.7	35.7	35.7	
Motor & Pump P 120/121	34.4	27.7	27.7	27.7	
Motor & Pump P 1505 FRESH FEED PUMPS	36.6	29.9	29.9	29.9	
Motor & Pump P 1506 FRESH FEED PUMPS	37.9	31.2	31.2	31.2	
Motor & Pump P 1509 Chloride Injection P	43.2	36.5	36.5	36.5	
Motor & Pump P 1510 Chloride Injection P	43.1	36.4	36.4	36.4	
Motor & Pump P 1601 A	38.5	31.8	31.8	31.8	
Motor & Pump P 1601 B	33.9	27.3	27.3	27.3	
Motor & Pump P 1602 A	30.5	23.8	23.8	23.8	
Motor & Pump P 1602 B	30.1	23.4	23.4	23.4	
Motor & Pump P 211/212	48.3	41.6	41.6	41.6	
Motor & Pump P 215/214	49.1	42.4	42.4	42.4	
Motor & Pump P 216	52.6	45.9	45.9	45.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 217/218	48.1	41.4	41.4	41.4	
Motor & Pump P 300	41.2	34.6	34.6	34.6	
Motor & Pump P 301	47.2	40.6	40.6	40.6	
Motor & Pump P 302	39.9	33.2	33.2	33.2	
Motor & Pump P 303	39.6	32.9	32.9	32.9	
Motor & Pump P 305	39.3	32.6	32.6	32.6	
Motor & Pump P 306	53.4	46.8	46.8	46.8	
Motor & Pump P 307	50.0	43.3	43.3	43.3	
Motor & Pump P 309	38.7	32.0	32.0	32.0	
Motor & Pump P 312	53.4	46.8	46.8	46.8	
Motor & Pump P 313	53.5	46.8	46.8	46.8	
Motor & Pump P 315	55.3	48.6	48.6	48.6	
Motor & Pump P 316	55.2	48.5	48.5	48.5	
Motor & Pump P 317	55.2	48.5	48.5	48.5	
Motor & Pump P 318	52.4	45.7	45.7	45.7	
Motor & Pump P 319	52.2	45.5	45.5	45.5	
Motor & Pump P 327	42.3	35.7	35.7	35.7	
Motor & Pump P 328	52.8	46.1	46.1	46.1	
Motor & Pump P 329	51.3	44.7	44.7	44.7	
Motor & Pump P 451	41.9	35.2	35.2	35.2	
Motor & Pump P 453	49.4	42.7	42.7	42.7	
Motor & Pump P 454	45.2	38.5	38.5	38.5	
Motor & Pump P 457	49.5	42.8	42.8	42.8	
Motor & Pump P 458	41.4	34.7	34.7	34.7	
Motor & Pump P 459	45.2	38.6	38.6	38.6	
Motor & Pump P 56A/B	41.6	34.9	34.9	34.9	
P602 100 HP	29.2	22.5	22.5	22.5	
P603 60 HP	28.7	22.0	22.0	22.0	
P605 40 HP	27.9	21.3	21.3	21.3	
P607 15 HP	27.7	21.1	21.1	21.1	
P608 15 HP	25.5	18.9	18.9	18.9	
P611 15 HP	25.0	18.3	18.3	18.3	
P614/615 20 HP	30.0	23.3	23.3	23.3	
Rail Cars Bumping 6 times in during delivery	46.8	49.8			
Scanner Blower C-084A/B	47.8	41.1	41.1	41.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	21.8	15.1	15.1	15.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	19.1	12.4	12.4	12.4	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.4	15.7	15.7	15.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	27.1	20.4	20.4	20.4	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	26.6	19.9	19.9	19.9	
Solar Turbine T70 Boiler-Boiler East 1	25.0	18.3	18.3	18.3	
Solar Turbine T70 Boiler-Boiler East 2	22.6	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler North 1	41.0	34.3	34.3	34.3	
Solar Turbine T70 Boiler-Boiler North 2	30.6	23.9	23.9	23.9	
Solar Turbine T70 Boiler-Boiler Roof	38.5	31.8	31.8	31.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Boiler-Boiler South	44.3	37.6	37.6	37.6	
Solar Turbine T70 Boiler-Boiler South 2	27.6	20.9	20.9	20.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	37.3	30.6	30.6	30.6	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	55.2	48.5	48.5	48.5	
Solar Turbine T70 Enclosure-T70 Encl. Roof	52.8	46.1	46.1	46.1	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	54.1	47.4	47.4	47.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	46.2	39.5	39.5	39.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	43.5	36.8	36.8	36.8	
Solar Turbine T70 SCR-SCR Unit Roof	30.6	24.0	24.0	24.0	
Solar Turbine T70 SCR-SCR Unit NE	22.5	15.8	15.8	15.8	
Solar Turbine T70 SCR-SCR Unit North	28.7	22.1	22.1	22.1	
Solar Turbine T70 SCR-SCR Unit NW	22.2	15.6	15.6	15.6	
Solar Turbine T70 SCR-SCR Unit SE	24.3	17.6	17.6	17.6	
Solar Turbine T70 SCR-SCR Unit South	34.3	27.6	27.6	27.6	
Solar Turbine T70 SCR-SCR Unit SW	29.9	23.3	23.3	23.3	
xxxx xxxx xxxx xxxx	38.0	36.5	34.7	28.8	
xxxx xxxx xxxx xxxx	37.3	35.8	34.1	28.2	
Tank Farm Pump 1	41.1	34.5	34.5	34.5	
Tank Farm Pump 2	41.3	34.7	34.7	34.7	
Tank Farm Pump 3	41.6	34.9	34.9	34.9	
UP Train Locomotive Delivery and Pickup	42.5	45.5			
Vaporizer Blower 1	43.4	36.7	36.7	36.7	
Vaporizer Blower 2	43.4	36.7	36.7	36.7	
Vaporizer Inlet Silencer	26.1	19.5	19.5	19.5	
Vaporizer Motor 1	38.3	31.7	31.7	31.7	
Vaporizer Motor 2	38.4	31.7	31.7	31.7	
Water Treatment Pumps P-056A&B	49.1	42.5	42.5	42.5	
XF-1502 Splitter Area 1	52.5	45.8	45.8	45.8	
XF-1502 Splitter Area 2	52.7	46.0	46.0	46.0	
XF-1504 Splitter Area 1	48.4	41.7	41.7	41.7	
XF-1504 Splitter Area 2	48.2	41.5	41.5	41.5	
XF - 1601	46.9	40.3	40.3	40.3	
XF - 1602	47.1	40.4	40.4	40.4	
XF 304, XF 321	57.5	50.8	50.8	50.8	
XF 313, XF 314	54.3	47.6	47.6	47.6	
XF 335-1, XF 335-2	56.6	49.9	49.9	49.9	
XF 503	60.1	53.4	53.4	53.4	
XF Module 1510	56.4	49.8	49.8	49.8	
XF Module 1519	56.7	50.0	50.0	50.0	
Receiver SS-2 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.9 dB(A) Ld 7-19 dB(A) Leq,N 65.7 dB(A) Le 19-					
2.8-Open Intake	48.3	41.6	41.6	41.6	
2011 Track Mobile switch moving rail cars 33 cars per day	48.4	51.4			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	52.8	46.1	46.1	46.1	
Air Compressor Pump, Motor Fan CMXF -055	40.2	33.5	33.5	33.5	
Asphalt Production	61.7	55.0	55.0	55.0	
BFW Pumps P-073A&B	49.5	42.8	42.8	42.8	
Blower F 401	57.3	50.6	50.6	50.6	
Boiler Crude Unit-Heater Opening	47.0	40.3	40.3	40.3	
Brine Transfer P-085	53.2	46.6	46.6	46.6	
Burner H301 North	34.3	27.6	27.6	27.6	
Burner H301 South	39.8	33.2	33.2	33.2	
Burner H302 North	36.8	30.1	30.1	30.1	
Burner H302 South	41.4	34.7	34.7	34.7	
Burner H303 North	41.4	34.8	34.8	34.8	
Burner H303 South	50.2	43.5	43.5	43.5	
Burner H304 North	38.2	31.5	31.5	31.5	
Burner H304 South	42.5	35.8	35.8	35.8	
Burner H305 North	40.3	33.6	33.6	33.6	
Burner H305 South	38.4	31.7	31.7	31.7	
Burner H306 North	38.8	32.2	32.2	32.2	
Burner H306 South	40.6	33.9	33.9	33.9	
Compressor House C301, C302, C 124-Comp House East 1	55.6	48.9	48.9	48.9	
Compressor House C301, C302, C 124-Comp House East 2	53.3	46.7	46.7	46.7	
Compressor House C301, C302, C 124-Comp House North	44.8	38.1	38.1	38.1	
Compressor House C301, C302, C 124-Comp House South 1	54.2	47.5	47.5	47.5	
Compressor House C301, C302, C 124-Comp House South 2	48.9	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House West	44.1	37.4	37.4	37.4	
Cooling Tower CT 510-CT 510 East Side	31.6	25.0	25.0	25.0	
Cooling Tower CT 510-CT 510 West Side	56.5	49.8	49.8	49.8	
Cooling Tower CT 511-CT 511 East Side	37.4	30.7	30.7	30.7	
Cooling Tower CT 511-CT 511 West Side	52.7	46.0	46.0	46.0	
Cooling Tower M 512	52.8	46.1	46.1	46.1	
Cooling Tower M 513	52.8	46.2	46.2	46.2	
Cooling Tower M 514	52.8	46.1	46.1	46.1	
Crude Plant Operation 80 dB/m^2 at 1 m	57.3	50.7	50.7	50.7	
xxxx xxxx xxxx xxxx	25.7	19.0	19.0	19.0	
xxxx xxxx xxxx xxxx	41.2	34.5	34.5	34.5	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.3	50.7	50.7	50.7	
xxxx xxxx xxxx xxxx	43.6	36.7	39.0	36.7	
CT Y-600-CT Y-600 North	45.0	38.3	38.3	38.3	
CT Y-600-CT Y-600 South	43.1	36.4	36.4	36.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Deaerator Skid P-058A&B	50.7	44.0	44.0	44.0	
xxxx xxxx xxxx xxxx	37.8	36.3	34.6	28.6	
xxxx xxxx xxxx xxxx	38.0	36.5	34.8	28.8	
Exhaust Stack	57.2	50.5	50.5	50.5	
F.G. After Cooler XF-083ABC	52.9	46.3	46.3	46.3	
Fan Y-600	49.1	42.5	42.5	42.5	
FG Compressor Enclosure-FG Enclosure Roof	31.6	24.9	24.9	24.9	
FG Compressor Enclosure-FG Enclosure East	26.9	20.2	20.2	20.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	13.9	7.2	7.2	7.2	
FG Compressor Enclosure-FG Enclosure North	29.4	22.7	22.7	22.7	
FG Compressor Enclosure-FG Enclosure South	29.5	22.9	22.9	22.9	
FG Compressor Enclosure-FG Enclosure West	30.7	24.0	24.0	24.0	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.5	15.8	15.8	15.8	
Fin Fan XF 616 - Above	34.1	27.5	27.5	27.5	
Fin Fan XF 616 - Below	49.0	42.3	42.3	42.3	
Fin Fan XF 617 - Above	30.8	24.1	24.1	24.1	
Fin Fan XF 617 - Below	44.8	38.1	38.1	38.1	
Heater # 5-Heater	31.1	24.5	24.5	24.5	
Heater # 5-Heater	33.2	26.5	26.5	26.5	
Heater # 5-Heater	36.6	30.0	30.0	30.0	
Heater H 601	37.9	31.3	31.3	31.3	
Hydro Heater H-402	51.0	44.3	44.3	44.3	
ID Fan	49.7	43.0	43.0	43.0	
ID Fan 200 HP Motor	37.6	30.9	30.9	30.9	
Incinirator Compressor & Motor	35.3	28.7	28.7	28.7	
Incinirator Fin Fan	37.9	31.3	31.3	31.3	
xxxx xxxx xxxx xxxx	25.8	24.3	22.5	16.6	
xxxx xxxx xxxx xxxx	25.9	24.4	22.6	16.7	
Lub Oil Cooler XF-061	54.1	47.5	47.5	47.5	
Misc pumps motors	43.6	37.0	37.0	37.0	
Motor & Pump P - 1502 Splitter Reflux Pu	41.3	34.7	34.7	34.7	
Motor & Pump P - 1503 Splitter Bottoms P	44.9	38.2	38.2	38.2	
Motor & Pump P - 1504 Splitter Bottoms P	45.6	38.9	38.9	38.9	
Motor & Pump P - 1507 Reactor Pump	40.8	34.2	34.2	34.2	
Motor & Pump P - 1508 Reactor Pump	42.0	35.3	35.3	35.3	
Motor & Pump P - 1511 Stabilizer Reflux	37.7	31.0	31.0	31.0	
Motor & Pump P - 1512 Stabilizer Reflux	41.0	34.3	34.3	34.3	
Motor & Pump P - 1513 Caustic Circulatin	48.3	41.7	41.7	41.7	
Motor & Pump P - 1514 Caustic Circulatin	43.2	36.5	36.5	36.5	
Motor & Pump P 120/121	38.1	31.4	31.4	31.4	
Motor & Pump P 1505 FRESH FEED PUMPS	36.6	29.9	29.9	29.9	
Motor & Pump P 1506 FRESH FEED PUMPS	37.9	31.3	31.3	31.3	
Motor & Pump P 1509 Chloride Injection P	41.5	34.8	34.8	34.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1510 Chloride Injection P	41.4	34.8	34.8	34.8	
Motor & Pump P 1601 A	40.1	33.4	33.4	33.4	
Motor & Pump P 1601 B	34.0	27.4	27.4	27.4	
Motor & Pump P 1602 A	30.7	24.0	24.0	24.0	
Motor & Pump P 1602 B	30.3	23.7	23.7	23.7	
Motor & Pump P 211/212	48.3	41.6	41.6	41.6	
Motor & Pump P 215/214	49.1	42.5	42.5	42.5	
Motor & Pump P 216	52.6	45.9	45.9	45.9	
Motor & Pump P 217/218	48.1	41.4	41.4	41.4	
Motor & Pump P 300	42.5	35.8	35.8	35.8	
Motor & Pump P 301	48.8	42.2	42.2	42.2	
Motor & Pump P 302	40.4	33.7	33.7	33.7	
Motor & Pump P 303	40.2	33.5	33.5	33.5	
Motor & Pump P 305	39.9	33.3	33.3	33.3	
Motor & Pump P 306	54.6	47.9	47.9	47.9	
Motor & Pump P 307	51.3	44.6	44.6	44.6	
Motor & Pump P 309	39.5	32.8	32.8	32.8	
Motor & Pump P 312	53.7	47.0	47.0	47.0	
Motor & Pump P 313	53.7	47.1	47.1	47.1	
Motor & Pump P 315	55.5	48.8	48.8	48.8	
Motor & Pump P 316	55.3	48.7	48.7	48.7	
Motor & Pump P 317	55.3	48.6	48.6	48.6	
Motor & Pump P 318	52.6	45.9	45.9	45.9	
Motor & Pump P 319	52.4	45.7	45.7	45.7	
Motor & Pump P 327	42.6	35.9	35.9	35.9	
Motor & Pump P 328	53.6	46.9	46.9	46.9	
Motor & Pump P 329	52.4	45.7	45.7	45.7	
Motor & Pump P 451	42.2	35.5	35.5	35.5	
Motor & Pump P 453	49.4	42.7	42.7	42.7	
Motor & Pump P 454	45.6	38.9	38.9	38.9	
Motor & Pump P 457	49.5	42.8	42.8	42.8	
Motor & Pump P 458	41.6	34.9	34.9	34.9	
Motor & Pump P 459	45.5	38.8	38.8	38.8	
Motor & Pump P 56A/B	41.1	34.5	34.5	34.5	
P602 100 HP	29.4	22.7	22.7	22.7	
P603 60 HP	30.0	23.4	23.4	23.4	
P605 40 HP	28.0	21.3	21.3	21.3	
P607 15 HP	25.2	18.6	18.6	18.6	
P608 15 HP	25.5	18.8	18.8	18.8	
P611 15 HP	25.1	18.4	18.4	18.4	
P614/615 20 HP	28.4	21.7	21.7	21.7	
Rail Cars Bumping 6 times in during delivery	46.9	49.9			
Scanner Blower C-084A/B	48.7	42.1	42.1	42.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	22.2	15.6	15.6	15.6	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	20.7	14.0	14.0	14.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.6	15.9	15.9	15.9	
Solar Turbine T70 2nd Boiler-2nd Boiler South	26.9	20.2	20.2	20.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	26.2	19.6	19.6	19.6	
Solar Turbine T70 Boiler-Boiler East 1	25.9	19.3	19.3	19.3	
Solar Turbine T70 Boiler-Boiler East 2	22.9	16.2	16.2	16.2	
Solar Turbine T70 Boiler-Boiler North 1	41.1	34.5	34.5	34.5	
Solar Turbine T70 Boiler-Boiler North 2	30.7	24.1	24.1	24.1	
Solar Turbine T70 Boiler-Boiler Roof	37.1	30.4	30.4	30.4	
Solar Turbine T70 Boiler-Boiler South	44.4	37.7	37.7	37.7	
Solar Turbine T70 Boiler-Boiler South 2	28.8	22.2	22.2	22.2	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	39.8	33.1	33.1	33.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	55.3	48.7	48.7	48.7	
Solar Turbine T70 Enclosure-T70 Encl. Roof	52.4	45.8	45.8	45.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	54.8	48.2	48.2	48.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	46.2	39.5	39.5	39.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	44.0	37.4	37.4	37.4	
Solar Turbine T70 SCR-SCR Unit Roof	29.8	23.1	23.1	23.1	
Solar Turbine T70 SCR-SCR Unit NE	22.6	15.9	15.9	15.9	
Solar Turbine T70 SCR-SCR Unit North	28.9	22.2	22.2	22.2	
Solar Turbine T70 SCR-SCR Unit NW	22.5	15.8	15.8	15.8	
Solar Turbine T70 SCR-SCR Unit SE	24.8	18.1	18.1	18.1	
Solar Turbine T70 SCR-SCR Unit South	34.4	27.8	27.8	27.8	
Solar Turbine T70 SCR-SCR Unit SW	30.0	23.4	23.4	23.4	
xxxx xxxx xxxx xxxx	39.0	37.5	35.8	29.9	
xxxx xxxx xxxx xxxx	38.4	36.9	35.2	29.3	
Tank Farm Pump 1	42.2	35.5	35.5	35.5	
Tank Farm Pump 2	41.3	34.6	34.6	34.6	
Tank Farm Pump 3	41.4	34.7	34.7	34.7	
UP Train Locomotive Delivery and Pickup	42.4	45.4			
Vaporizer Blower 1	43.4	36.7	36.7	36.7	
Vaporizer Blower 2	43.5	36.8	36.8	36.8	
Vaporizer Inlet Silencer	26.7	20.0	20.0	20.0	
Vaporizer Motor 1	38.4	31.7	31.7	31.7	
Vaporizer Motor 2	38.4	31.7	31.7	31.7	
Water Treatment Pumps P-056A&B	49.1	42.5	42.5	42.5	
XF-1502 Splitter Area 1	52.6	45.9	45.9	45.9	
XF-1502 Splitter Area 2	52.8	46.1	46.1	46.1	
XF-1504 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1504 Splitter Area 2	48.3	41.6	41.6	41.6	
XF - 1601	47.2	40.6	40.6	40.6	
XF - 1602	47.2	40.5	40.5	40.5	
XF 304, XF 321	58.6	52.0	52.0	52.0	
XF 313, XF 314	53.8	47.2	47.2	47.2	

AltAir Paramount - WorldEnergy
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Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	58.1	51.4	51.4	51.4	
XF 503	60.5	53.8	53.8	53.8	
XF Module 1510	56.7	50.0	50.0	50.0	
XF Module 1519	57.0	50.3	50.3	50.3	
Receiver SS-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.1 dB(A) Ld 7-19 dB(A) Leq,N 63.7 dB(A) Le 19-2					
2.8-Open Intake	48.4	41.8	41.8	41.8	
2011 Track Mobile switch moving rail cars 33 cars per day	48.5	51.5			
Air Compressor C 1	50.1	43.4	43.4	43.4	
Air Compressor Pump, Motor Fan CMXF -055	43.9	37.3	37.3	37.3	
Asphalt Production	62.5	55.9	55.9	55.9	
BFW Pumps P-073A&B	40.2	33.6	33.6	33.6	
Blower F 401	55.2	48.5	48.5	48.5	
Boiler Crude Unit-Heater Opening	46.0	39.3	39.3	39.3	
Brine Transfer P-085	48.1	41.5	41.5	41.5	
Burner H301 North	27.9	21.3	21.3	21.3	
Burner H301 South	37.7	31.0	31.0	31.0	
Burner H302 North	33.2	26.5	26.5	26.5	
Burner H302 South	37.8	31.1	31.1	31.1	
Burner H303 North	37.4	30.8	30.8	30.8	
Burner H303 South	47.8	41.1	41.1	41.1	
Burner H304 North	34.9	28.3	28.3	28.3	
Burner H304 South	39.0	32.3	32.3	32.3	
Burner H305 North	37.4	30.8	30.8	30.8	
Burner H305 South	35.0	28.4	28.4	28.4	
Burner H306 North	35.0	28.4	28.4	28.4	
Burner H306 South	37.6	30.9	30.9	30.9	
Compressor House C301, C302, C 124-Comp House East 1	52.8	46.2	46.2	46.2	
Compressor House C301, C302, C 124-Comp House East 2	51.4	44.7	44.7	44.7	
Compressor House C301, C302, C 124-Comp House North	42.3	35.6	35.6	35.6	
Compressor House C301, C302, C 124-Comp House South 1	52.4	45.7	45.7	45.7	
Compressor House C301, C302, C 124-Comp House South 2	46.9	40.2	40.2	40.2	
Compressor House C301, C302, C 124-Comp House West	34.9	28.3	28.3	28.3	
Cooling Tower CT 510-CT 510 East Side	44.1	37.5	37.5	37.5	
Cooling Tower CT 510-CT 510 West Side	52.5	45.8	45.8	45.8	
Cooling Tower CT 511-CT 511 East Side	49.7	43.0	43.0	43.0	
Cooling Tower CT 511-CT 511 West Side	57.2	50.5	50.5	50.5	
Cooling Tower M 512	44.5	37.8	37.8	37.8	
Cooling Tower M 513	52.3	45.6	45.6	45.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	41.0	34.4	34.4	34.4	
Crude Plant Operation 80 dB/m^2 at 1 m	57.5	50.8	50.8	50.8	
xxxx xxxx xxxx xxxx	25.4	18.7	18.7	18.7	
xxxx xxxx xxxx xxxx	40.6	34.0	34.0	34.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.3	50.6	50.6	50.6	
xxxx xxxx xxxx xxxx	43.0	36.1	38.4	36.1	
CT Y-600-CT Y-600 North	42.7	36.0	36.0	36.0	
CT Y-600-CT Y-600 South	43.2	36.5	36.5	36.5	
Deaerator Skid P-058A&B	51.9	45.2	45.2	45.2	
xxxx xxxx xxxx xxxx	35.0	33.5	31.8	25.9	
xxxx xxxx xxxx xxxx	34.9	33.4	31.7	25.7	
Exhaust Stack	56.7	50.1	50.1	50.1	
F.G. After Cooler XF-083ABC	49.7	43.1	43.1	43.1	
Fan Y-600	48.2	41.5	41.5	41.5	
FG Compressor Enclosure-FG Enclosure Roof	31.6	24.9	24.9	24.9	
FG Compressor Enclosure-FG Enclosure East	26.9	20.2	20.2	20.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	14.3	7.6	7.6	7.6	
FG Compressor Enclosure-FG Enclosure North	27.9	21.2	21.2	21.2	
FG Compressor Enclosure-FG Enclosure South	29.2	22.5	22.5	22.5	
FG Compressor Enclosure-FG Enclosure West	30.2	23.5	23.5	23.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	21.4	14.7	14.7	14.7	
Fin Fan XF 616 - Above	31.7	25.0	25.0	25.0	
Fin Fan XF 616 - Below	49.4	42.8	42.8	42.8	
Fin Fan XF 617 - Above	28.3	21.7	21.7	21.7	
Fin Fan XF 617 - Below	45.1	38.4	38.4	38.4	
Heater # 5-Heater	31.7	25.1	25.1	25.1	
Heater # 5-Heater	33.6	27.0	27.0	27.0	
Heater # 5-Heater	37.2	30.5	30.5	30.5	
Heater H 601	36.8	30.2	30.2	30.2	
Hydro Heater H-402	49.3	42.7	42.7	42.7	
ID Fan	46.0	39.3	39.3	39.3	
ID Fan 200 HP Motor	32.8	26.1	26.1	26.1	
Incinirator Compressor & Motor	35.7	29.1	29.1	29.1	
Incinirator Fin Fan	38.8	32.1	32.1	32.1	
xxxx xxxx xxxx xxxx	25.1	23.6	21.9	16.0	
xxxx xxxx xxxx xxxx	24.8	23.3	21.6	15.7	
Lub Oil Cooler XF-061	49.9	43.2	43.2	43.2	
Misc pumps motors	39.8	33.1	33.1	33.1	
Motor & Pump P - 1502 Splitter Reflux Pu	36.8	30.1	30.1	30.1	
Motor & Pump P - 1503 Splitter Bottoms P	38.3	31.6	31.6	31.6	
Motor & Pump P - 1504 Splitter Bottoms P	38.9	32.2	32.2	32.2	
Motor & Pump P - 1507 Reactor Pump	44.7	38.0	38.0	38.0	
Motor & Pump P - 1508 Reactor Pump	44.9	38.3	38.3	38.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	31.7	25.0	25.0	25.0	
Motor & Pump P - 1512 Stabilizer Reflux	36.8	30.1	30.1	30.1	
Motor & Pump P - 1513 Caustic Circulatin	38.8	32.2	32.2	32.2	
Motor & Pump P - 1514 Caustic Circulatin	39.1	32.4	32.4	32.4	
Motor & Pump P 120/121	32.3	25.6	25.6	25.6	
Motor & Pump P 1505 FRESH FEED PUMPS	40.4	33.7	33.7	33.7	
Motor & Pump P 1506 FRESH FEED PUMPS	42.0	35.3	35.3	35.3	
Motor & Pump P 1509 Chloride Injection P	41.2	34.6	34.6	34.6	
Motor & Pump P 1510 Chloride Injection P	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 A	39.9	33.2	33.2	33.2	
Motor & Pump P 1601 B	36.0	29.3	29.3	29.3	
Motor & Pump P 1602 A	34.0	27.3	27.3	27.3	
Motor & Pump P 1602 B	32.6	25.9	25.9	25.9	
Motor & Pump P 211/212	42.4	35.8	35.8	35.8	
Motor & Pump P 215/214	41.7	35.0	35.0	35.0	
Motor & Pump P 216	51.3	44.7	44.7	44.7	
Motor & Pump P 217/218	42.4	35.7	35.7	35.7	
Motor & Pump P 300	31.9	25.2	25.2	25.2	
Motor & Pump P 301	37.3	30.6	30.6	30.6	
Motor & Pump P 302	31.3	24.6	24.6	24.6	
Motor & Pump P 303	31.5	24.9	24.9	24.9	
Motor & Pump P 305	31.9	25.3	25.3	25.3	
Motor & Pump P 306	47.9	41.2	41.2	41.2	
Motor & Pump P 307	42.2	35.5	35.5	35.5	
Motor & Pump P 309	32.2	25.5	25.5	25.5	
Motor & Pump P 312	48.3	41.7	41.7	41.7	
Motor & Pump P 313	48.4	41.8	41.8	41.8	
Motor & Pump P 315	51.3	44.6	44.6	44.6	
Motor & Pump P 316	50.9	44.2	44.2	44.2	
Motor & Pump P 317	50.5	43.9	43.9	43.9	
Motor & Pump P 318	47.6	41.0	41.0	41.0	
Motor & Pump P 319	47.0	40.4	40.4	40.4	
Motor & Pump P 327	40.3	33.6	33.6	33.6	
Motor & Pump P 328	44.9	38.2	38.2	38.2	
Motor & Pump P 329	45.0	38.3	38.3	38.3	
Motor & Pump P 451	38.5	31.9	31.9	31.9	
Motor & Pump P 453	40.9	34.2	34.2	34.2	
Motor & Pump P 454	47.5	40.8	40.8	40.8	
Motor & Pump P 457	41.0	34.3	34.3	34.3	
Motor & Pump P 458	35.8	29.1	29.1	29.1	
Motor & Pump P 459	47.4	40.8	40.8	40.8	
Motor & Pump P 56A/B	37.3	30.6	30.6	30.6	
P602 100 HP	31.5	24.8	24.8	24.8	
P603 60 HP	30.7	24.0	24.0	24.0	
P605 40 HP	30.6	23.9	23.9	23.9	

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Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P607 15 HP	28.4	21.7	21.7	21.7	
P608 15 HP	26.6	19.9	19.9	19.9	
P611 15 HP	27.5	20.8	20.8	20.8	
P614/615 20 HP	30.0	23.4	23.4	23.4	
Rail Cars Bumping 6 times in during delivery	46.0	49.0			
Scanner Blower C-084A/B	44.4	37.7	37.7	37.7	
Solar Turbine T70 2nd Boiler-2nd Boiler North	20.2	13.5	13.5	13.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	20.5	13.8	13.8	13.8	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	21.4	14.7	14.7	14.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	28.2	21.5	21.5	21.5	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	28.5	21.9	21.9	21.9	
Solar Turbine T70 Boiler-Boiler East 1	21.3	14.6	14.6	14.6	
Solar Turbine T70 Boiler-Boiler East 2	20.4	13.7	13.7	13.7	
Solar Turbine T70 Boiler-Boiler North 1	37.4	30.7	30.7	30.7	
Solar Turbine T70 Boiler-Boiler North 2	28.1	21.4	21.4	21.4	
Solar Turbine T70 Boiler-Boiler Roof	37.0	30.3	30.3	30.3	
Solar Turbine T70 Boiler-Boiler South	41.2	34.5	34.5	34.5	
Solar Turbine T70 Boiler-Boiler South 2	27.3	20.6	20.6	20.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	38.7	32.0	32.0	32.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	51.5	44.8	44.8	44.8	
Solar Turbine T70 Enclosure-T70 Encl. Roof	52.3	45.6	45.6	45.6	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	52.2	45.5	45.5	45.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	42.6	36.0	36.0	36.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	40.6	33.9	33.9	33.9	
Solar Turbine T70 SCR-SCR Unit Roof	30.2	23.5	23.5	23.5	
Solar Turbine T70 SCR-SCR Unit NE	21.9	15.2	15.2	15.2	
Solar Turbine T70 SCR-SCR Unit North	30.0	23.3	23.3	23.3	
Solar Turbine T70 SCR-SCR Unit NW	23.6	17.0	17.0	17.0	
Solar Turbine T70 SCR-SCR Unit SE	26.8	20.1	20.1	20.1	
Solar Turbine T70 SCR-SCR Unit South	33.4	26.8	26.8	26.8	
Solar Turbine T70 SCR-SCR Unit SW	29.7	23.0	23.0	23.0	
xxxx xxxx xxxx xxxx	36.5	35.0	33.3	27.4	
xxxx xxxx xxxx xxxx	35.8	34.3	32.6	26.6	
Tank Farm Pump 1	41.2	34.6	34.6	34.6	
Tank Farm Pump 2	40.7	34.0	34.0	34.0	
Tank Farm Pump 3	40.6	33.9	33.9	33.9	
UP Train Locomotive Delivery and Pickup	42.2	45.2			
Vaporizer Blower 1	39.2	32.6	32.6	32.6	
Vaporizer Blower 2	39.3	32.6	32.6	32.6	
Vaporizer Inlet Silencer	21.9	15.3	15.3	15.3	
Vaporizer Motor 1	34.2	27.5	27.5	27.5	
Vaporizer Motor 2	34.2	27.6	27.6	27.6	
Water Treatment Pumps P-056A&B	41.9	35.3	35.3	35.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 1	51.2	44.5	44.5	44.5	
XF-1502 Splitter Area 2	51.6	44.9	44.9	44.9	
XF-1504 Splitter Area 1	39.6	33.0	33.0	33.0	
XF-1504 Splitter Area 2	48.8	42.2	42.2	42.2	
XF - 1601	45.8	39.1	39.1	39.1	
XF - 1602	45.7	39.1	39.1	39.1	
XF 304, XF 321	54.3	47.6	47.6	47.6	
XF 313, XF 314	51.6	44.9	44.9	44.9	
XF 335-1, XF 335-2	54.5	47.9	47.9	47.9	
XF 503	57.8	51.1	51.1	51.1	
XF Module 1510	55.6	48.9	48.9	48.9	
XF Module 1519	55.9	49.2	49.2	49.2	
Receiver SS-3 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.8 dB(A) Ld 7-19 dB(A) Leq,N 64.5 dB(A) Le 19-					
2.8-Open Intake	48.5	41.8	41.8	41.8	
2011 Track Mobile switch moving rail cars 33 cars per day	48.5	51.6			
Air Compressor C 1	51.7	45.0	45.0	45.0	
Air Compressor Pump, Motor Fan CMXF -055	45.8	39.1	39.1	39.1	
Asphalt Production	63.1	56.4	56.4	56.4	
BFW Pumps P-073A&B	41.9	35.3	35.3	35.3	
Blower F 401	56.2	49.5	49.5	49.5	
Boiler Crude Unit-Heater Opening	47.4	40.7	40.7	40.7	
Brine Transfer P-085	48.1	41.4	41.4	41.4	
Burner H301 North	28.0	21.3	21.3	21.3	
Burner H301 South	39.1	32.4	32.4	32.4	
Burner H302 North	34.1	27.5	27.5	27.5	
Burner H302 South	39.5	32.8	32.8	32.8	
Burner H303 North	40.1	33.4	33.4	33.4	
Burner H303 South	47.8	41.1	41.1	41.1	
Burner H304 North	36.9	30.2	30.2	30.2	
Burner H304 South	41.1	34.4	34.4	34.4	
Burner H305 North	39.4	32.8	32.8	32.8	
Burner H305 South	36.8	30.2	30.2	30.2	
Burner H306 North	36.8	30.1	30.1	30.1	
Burner H306 South	39.7	33.0	33.0	33.0	
Compressor House C301, C302, C 124-Comp House East 1	54.0	47.4	47.4	47.4	
Compressor House C301, C302, C 124-Comp House East 2	52.0	45.4	45.4	45.4	
Compressor House C301, C302, C 124-Comp House North	43.6	36.9	36.9	36.9	
Compressor House C301, C302, C 124-Comp House South 1	53.2	46.5	46.5	46.5	
Compressor House C301, C302, C 124-Comp House South 2	47.9	41.2	41.2	41.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	35.9	29.2	29.2	29.2	
Cooling Tower CT 510-CT 510 East Side	44.0	37.3	37.3	37.3	
Cooling Tower CT 510-CT 510 West Side	52.9	46.2	46.2	46.2	
Cooling Tower CT 511-CT 511 East Side	50.0	43.3	43.3	43.3	
Cooling Tower CT 511-CT 511 West Side	57.8	51.1	51.1	51.1	
Cooling Tower M 512	44.5	37.8	37.8	37.8	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	41.2	34.5	34.5	34.5	
Crude Plant Operation 80 dB/m^2 at 1 m	57.8	51.2	51.2	51.2	
xxxx xxxx xxxx xxxx	24.3	17.7	17.7	17.7	
xxxx xxxx xxxx xxxx	40.8	34.2	34.2	34.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.7	51.1	51.1	51.1	
xxxx xxxx xxxx xxxx	43.6	36.7	39.1	36.7	
CT Y-600-CT Y-600 North	43.7	37.0	37.0	37.0	
CT Y-600-CT Y-600 South	43.9	37.2	37.2	37.2	
Deaerator Skid P-058A&B	50.9	44.3	44.3	44.3	
xxxx xxxx xxxx xxxx	36.2	34.7	32.9	27.0	
xxxx xxxx xxxx xxxx	36.1	34.6	32.9	26.9	
Exhaust Stack	57.3	50.6	50.6	50.6	
F.G. After Cooler XF-083ABC	50.8	44.1	44.1	44.1	
Fan Y-600	49.4	42.7	42.7	42.7	
FG Compressor Enclosure-FG Enclosure Roof	31.9	25.2	25.2	25.2	
FG Compressor Enclosure-FG Enclosure East	27.3	20.6	20.6	20.6	
FG Compressor Enclosure-FG Enclosure East Louver 1	15.1	8.5	8.5	8.5	
FG Compressor Enclosure-FG Enclosure North	28.9	22.2	22.2	22.2	
FG Compressor Enclosure-FG Enclosure South	29.7	23.0	23.0	23.0	
FG Compressor Enclosure-FG Enclosure West	30.7	24.1	24.1	24.1	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.4	15.7	15.7	15.7	
Fin Fan XF 616 - Above	33.5	26.8	26.8	26.8	
Fin Fan XF 616 - Below	50.1	43.4	43.4	43.4	
Fin Fan XF 617 - Above	30.2	23.5	23.5	23.5	
Fin Fan XF 617 - Below	45.8	39.1	39.1	39.1	
Heater # 5-Heater	32.6	25.9	25.9	25.9	
Heater # 5-Heater	34.5	27.8	27.8	27.8	
Heater # 5-Heater	37.6	31.0	31.0	31.0	
Heater H 601	37.9	31.2	31.2	31.2	
Hydro Heater H-402	50.4	43.8	43.8	43.8	
ID Fan	47.3	40.6	40.6	40.6	
ID Fan 200 HP Motor	32.7	26.0	26.0	26.0	
Incinirator Compressor & Motor	36.2	29.5	29.5	29.5	
Incinirator Fin Fan	39.0	32.3	32.3	32.3	
xxxx xxxx xxxx xxxx	25.7	24.2	22.5	16.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	25.5	24.0	22.3	16.4	
Lub Oil Cooler XF-061	50.6	43.9	43.9	43.9	
Misc pumps motors	41.9	35.2	35.2	35.2	
Motor & Pump P - 1502 Splitter Reflux Pu	37.6	30.9	30.9	30.9	
Motor & Pump P - 1503 Splitter Bottoms P	39.0	32.3	32.3	32.3	
Motor & Pump P - 1504 Splitter Bottoms P	39.5	32.9	32.9	32.9	
Motor & Pump P - 1507 Reactor Pump	44.4	37.7	37.7	37.7	
Motor & Pump P - 1508 Reactor Pump	44.6	38.0	38.0	38.0	
Motor & Pump P - 1511 Stabilizer Reflux	31.2	24.6	24.6	24.6	
Motor & Pump P - 1512 Stabilizer Reflux	37.9	31.2	31.2	31.2	
Motor & Pump P - 1513 Caustic Circulatin	39.6	33.0	33.0	33.0	
Motor & Pump P - 1514 Caustic Circulatin	38.3	31.6	31.6	31.6	
Motor & Pump P 120/121	32.3	25.7	25.7	25.7	
Motor & Pump P 1505 FRESH FEED PUMPS	40.3	33.6	33.6	33.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.8	35.2	35.2	35.2	
Motor & Pump P 1509 Chloride Injection P	41.5	34.9	34.9	34.9	
Motor & Pump P 1510 Chloride Injection P	41.6	34.9	34.9	34.9	
Motor & Pump P 1601 A	39.8	33.2	33.2	33.2	
Motor & Pump P 1601 B	36.1	29.4	29.4	29.4	
Motor & Pump P 1602 A	34.2	27.5	27.5	27.5	
Motor & Pump P 1602 B	32.8	26.1	26.1	26.1	
Motor & Pump P 211/212	42.8	36.1	36.1	36.1	
Motor & Pump P 215/214	42.2	35.6	35.6	35.6	
Motor & Pump P 216	51.6	44.9	44.9	44.9	
Motor & Pump P 217/218	42.4	35.7	35.7	35.7	
Motor & Pump P 300	31.6	25.0	25.0	25.0	
Motor & Pump P 301	37.0	30.3	30.3	30.3	
Motor & Pump P 302	31.1	24.4	24.4	24.4	
Motor & Pump P 303	31.3	24.7	24.7	24.7	
Motor & Pump P 305	31.8	25.1	25.1	25.1	
Motor & Pump P 306	48.3	41.7	41.7	41.7	
Motor & Pump P 307	44.0	37.3	37.3	37.3	
Motor & Pump P 309	32.1	25.4	25.4	25.4	
Motor & Pump P 312	49.9	43.3	43.3	43.3	
Motor & Pump P 313	50.0	43.4	43.4	43.4	
Motor & Pump P 315	51.7	45.0	45.0	45.0	
Motor & Pump P 316	51.4	44.7	44.7	44.7	
Motor & Pump P 317	51.0	44.4	44.4	44.4	
Motor & Pump P 318	48.9	42.2	42.2	42.2	
Motor & Pump P 319	48.7	42.1	42.1	42.1	
Motor & Pump P 327	40.8	34.1	34.1	34.1	
Motor & Pump P 328	44.8	38.1	38.1	38.1	
Motor & Pump P 329	44.9	38.2	38.2	38.2	
Motor & Pump P 451	39.0	32.3	32.3	32.3	
Motor & Pump P 453	42.5	35.8	35.8	35.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	42.5	35.8	35.8	35.8	
Motor & Pump P 458	36.4	29.8	29.8	29.8	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	37.4	30.7	30.7	30.7	
P602 100 HP	31.6	24.9	24.9	24.9	
P603 60 HP	30.4	23.8	23.8	23.8	
P605 40 HP	30.4	23.7	23.7	23.7	
P607 15 HP	28.4	21.7	21.7	21.7	
P608 15 HP	26.6	19.9	19.9	19.9	
P611 15 HP	27.4	20.7	20.7	20.7	
P614/615 20 HP	30.1	23.5	23.5	23.5	
Rail Cars Bumping 6 times in during delivery	46.6	49.6			
Scanner Blower C-084A/B	45.9	39.2	39.2	39.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	20.5	13.8	13.8	13.8	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	20.9	14.2	14.2	14.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	21.8	15.1	15.1	15.1	
Solar Turbine T70 2nd Boiler-2nd Boiler South	28.6	21.9	21.9	21.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	29.0	22.3	22.3	22.3	
Solar Turbine T70 Boiler-Boiler East 1	24.1	17.4	17.4	17.4	
Solar Turbine T70 Boiler-Boiler East 2	22.6	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler North 1	39.0	32.4	32.4	32.4	
Solar Turbine T70 Boiler-Boiler North 2	29.5	22.9	22.9	22.9	
Solar Turbine T70 Boiler-Boiler Roof	37.3	30.6	30.6	30.6	
Solar Turbine T70 Boiler-Boiler South	41.7	35.0	35.0	35.0	
Solar Turbine T70 Boiler-Boiler South 2	28.8	22.1	22.1	22.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	39.6	32.9	32.9	32.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	51.7	45.0	45.0	45.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	53.1	46.5	46.5	46.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	53.6	46.9	46.9	46.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	44.0	37.3	37.3	37.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	42.1	35.4	35.4	35.4	
Solar Turbine T70 SCR-SCR Unit Roof	31.9	25.3	25.3	25.3	
Solar Turbine T70 SCR-SCR Unit NE	22.3	15.6	15.6	15.6	
Solar Turbine T70 SCR-SCR Unit North	30.5	23.8	23.8	23.8	
Solar Turbine T70 SCR-SCR Unit NW	24.1	17.4	17.4	17.4	
Solar Turbine T70 SCR-SCR Unit SE	27.2	20.5	20.5	20.5	
Solar Turbine T70 SCR-SCR Unit South	33.9	27.3	27.3	27.3	
Solar Turbine T70 SCR-SCR Unit SW	30.1	23.5	23.5	23.5	
xxxx xxxx xxxx xxxx	38.3	36.8	35.0	29.1	
xxxx xxxx xxxx xxxx	37.4	35.9	34.2	28.3	
Tank Farm Pump 1	41.9	35.3	35.3	35.3	
Tank Farm Pump 2	41.5	34.8	34.8	34.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 3	41.3	34.6	34.6	34.6	
UP Train Locomotive Delivery and Pickup	42.3	45.3			
Vaporizer Blower 1	39.0	32.3	32.3	32.3	
Vaporizer Blower 2	39.0	32.4	32.4	32.4	
Vaporizer Inlet Silencer	25.1	18.5	18.5	18.5	
Vaporizer Motor 1	34.0	27.3	27.3	27.3	
Vaporizer Motor 2	34.0	27.3	27.3	27.3	
Water Treatment Pumps P-056A&B	42.1	35.4	35.4	35.4	
XF-1502 Splitter Area 1	52.0	45.3	45.3	45.3	
XF-1502 Splitter Area 2	52.2	45.5	45.5	45.5	
XF-1504 Splitter Area 1	48.4	41.8	41.8	41.8	
XF-1504 Splitter Area 2	47.7	41.1	41.1	41.1	
XF - 1601	46.8	40.1	40.1	40.1	
XF - 1602	46.7	40.1	40.1	40.1	
XF 304, XF 321	56.4	49.7	49.7	49.7	
XF 313, XF 314	52.7	46.0	46.0	46.0	
XF 335-1, XF 335-2	56.7	50.0	50.0	50.0	
XF 503	59.2	52.6	52.6	52.6	
XF Module 1510	56.1	49.5	49.5	49.5	
XF Module 1519	56.4	49.8	49.8	49.8	
Receiver SS-3 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.2 dB(A) Ld 7-19 dB(A) Leq,N 64.9 dB(A) Le 19-					
2.8-Open Intake	48.6	42.0	42.0	42.0	
2011 Track Mobile switch moving rail cars 33 cars per day	48.5	51.6			
Air Compressor C 1	52.7	46.0	46.0	46.0	
Air Compressor Pump, Motor Fan CMXF -055	47.3	40.6	40.6	40.6	
Asphalt Production	62.9	56.2	56.2	56.2	
BFW Pumps P-073A&B	43.0	36.3	36.3	36.3	
Blower F 401	56.5	49.9	49.9	49.9	
Boiler Crude Unit-Heater Opening	47.7	41.0	41.0	41.0	
Brine Transfer P-085	48.1	41.4	41.4	41.4	
Burner H301 North	28.0	21.4	21.4	21.4	
Burner H301 South	39.2	32.5	32.5	32.5	
Burner H302 North	34.2	27.5	27.5	27.5	
Burner H302 South	40.0	33.3	33.3	33.3	
Burner H303 North	40.9	34.2	34.2	34.2	
Burner H303 South	48.2	41.5	41.5	41.5	
Burner H304 North	37.3	30.6	30.6	30.6	
Burner H304 South	41.8	35.1	35.1	35.1	
Burner H305 North	39.9	33.2	33.2	33.2	
Burner H305 South	37.3	30.7	30.7	30.7	
Burner H306 North	37.2	30.5	30.5	30.5	
Burner H306 South	40.3	33.6	33.6	33.6	
Compressor House C301, C302, C 124-Comp House East 1	54.5	47.8	47.8	47.8	

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Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	52.1	45.4	45.4	45.4	
Compressor House C301, C302, C 124-Comp House North	45.4	38.7	38.7	38.7	
Compressor House C301, C302, C 124-Comp House South 1	53.3	46.6	46.6	46.6	
Compressor House C301, C302, C 124-Comp House South 2	48.2	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House West	36.1	29.4	29.4	29.4	
Cooling Tower CT 510-CT 510 East Side	35.7	29.1	29.1	29.1	
Cooling Tower CT 510-CT 510 West Side	52.9	46.2	46.2	46.2	
Cooling Tower CT 511-CT 511 East Side	45.9	39.2	39.2	39.2	
Cooling Tower CT 511-CT 511 West Side	57.9	51.2	51.2	51.2	
Cooling Tower M 512	44.8	38.2	38.2	38.2	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	42.0	35.3	35.3	35.3	
Crude Plant Operation 80 dB/m^2 at 1 m	58.1	51.4	51.4	51.4	
xxxx xxxx xxxx xxxx	25.3	18.6	18.6	18.6	
xxxx xxxx xxxx xxxx	41.5	34.8	34.8	34.8	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	58.1	51.4	51.4	51.4	
xxxx xxxx xxxx xxxx	44.5	37.5	39.9	37.5	
CT Y-600-CT Y-600 North	44.4	37.7	37.7	37.7	
CT Y-600-CT Y-600 South	44.3	37.6	37.6	37.6	
Deaerator Skid P-058A&B	51.0	44.4	44.4	44.4	
xxxx xxxx xxxx xxxx	37.2	35.7	34.0	28.1	
xxxx xxxx xxxx xxxx	37.5	35.9	34.2	28.3	
Exhaust Stack	57.4	50.7	50.7	50.7	
F.G. After Cooler XF-083ABC	51.1	44.4	44.4	44.4	
Fan Y-600	49.9	43.2	43.2	43.2	
FG Compressor Enclosure-FG Enclosure Roof	32.2	25.5	25.5	25.5	
FG Compressor Enclosure-FG Enclosure East	27.6	20.9	20.9	20.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	14.9	8.2	8.2	8.2	
FG Compressor Enclosure-FG Enclosure North	29.4	22.8	22.8	22.8	
FG Compressor Enclosure-FG Enclosure South	30.1	23.4	23.4	23.4	
FG Compressor Enclosure-FG Enclosure West	31.0	24.3	24.3	24.3	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.8	16.1	16.1	16.1	
Fin Fan XF 616 - Above	34.6	27.9	27.9	27.9	
Fin Fan XF 616 - Below	49.9	43.3	43.3	43.3	
Fin Fan XF 617 - Above	31.2	24.5	24.5	24.5	
Fin Fan XF 617 - Below	45.7	39.0	39.0	39.0	
Heater # 5-Heater	32.7	26.0	26.0	26.0	
Heater # 5-Heater	34.6	27.9	27.9	27.9	

AltAir Paramount - WorldEnergy
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Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	37.8	31.1	31.1	31.1	
Heater H 601	38.5	31.8	31.8	31.8	
Hydro Heater H-402	50.7	44.0	44.0	44.0	
ID Fan	48.0	41.4	41.4	41.4	
ID Fan 200 HP Motor	32.8	26.2	26.2	26.2	
Incinirator Compressor & Motor	36.0	29.3	29.3	29.3	
Incinirator Fin Fan	38.6	31.9	31.9	31.9	
xxxx xxxx xxxx xxxx	26.8	25.3	23.6	17.7	
xxxx xxxx xxxx xxxx	26.6	25.0	23.3	17.4	
Lub Oil Cooler XF-061	53.7	47.0	47.0	47.0	
Misc pumps motors	42.9	36.3	36.3	36.3	
Motor & Pump P - 1502 Splitter Reflux Pu	37.8	31.1	31.1	31.1	
Motor & Pump P - 1503 Splitter Bottoms P	39.3	32.6	32.6	32.6	
Motor & Pump P - 1504 Splitter Bottoms P	39.9	33.2	33.2	33.2	
Motor & Pump P - 1507 Reactor Pump	44.5	37.8	37.8	37.8	
Motor & Pump P - 1508 Reactor Pump	44.7	38.0	38.0	38.0	
Motor & Pump P - 1511 Stabilizer Reflux	31.3	24.6	24.6	24.6	
Motor & Pump P - 1512 Stabilizer Reflux	38.3	31.6	31.6	31.6	
Motor & Pump P - 1513 Caustic Circulatin	40.1	33.4	33.4	33.4	
Motor & Pump P - 1514 Caustic Circulatin	38.9	32.2	32.2	32.2	
Motor & Pump P 120/121	34.5	27.8	27.8	27.8	
Motor & Pump P 1505 FRESH FEED PUMPS	40.3	33.6	33.6	33.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.9	35.2	35.2	35.2	
Motor & Pump P 1509 Chloride Injection P	42.1	35.4	35.4	35.4	
Motor & Pump P 1510 Chloride Injection P	42.1	35.5	35.5	35.5	
Motor & Pump P 1601 A	40.2	33.5	33.5	33.5	
Motor & Pump P 1601 B	36.9	30.2	30.2	30.2	
Motor & Pump P 1602 A	35.3	28.6	28.6	28.6	
Motor & Pump P 1602 B	34.3	27.6	27.6	27.6	
Motor & Pump P 211/212	42.9	36.2	36.2	36.2	
Motor & Pump P 215/214	42.5	35.8	35.8	35.8	
Motor & Pump P 216	51.6	44.9	44.9	44.9	
Motor & Pump P 217/218	42.4	35.8	35.8	35.8	
Motor & Pump P 300	36.4	29.7	29.7	29.7	
Motor & Pump P 301	42.3	35.7	35.7	35.7	
Motor & Pump P 302	35.6	29.0	29.0	29.0	
Motor & Pump P 303	35.6	28.9	28.9	28.9	
Motor & Pump P 305	35.8	29.1	29.1	29.1	
Motor & Pump P 306	50.6	43.9	43.9	43.9	
Motor & Pump P 307	47.8	41.1	41.1	41.1	
Motor & Pump P 309	35.6	28.9	28.9	28.9	
Motor & Pump P 312	50.1	43.5	43.5	43.5	
Motor & Pump P 313	50.2	43.6	43.6	43.6	
Motor & Pump P 315	51.8	45.1	45.1	45.1	
Motor & Pump P 316	51.6	44.9	44.9	44.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 317	51.4	44.7	44.7	44.7	
Motor & Pump P 318	49.0	42.4	42.4	42.4	
Motor & Pump P 319	49.0	42.3	42.3	42.3	
Motor & Pump P 327	41.3	34.7	34.7	34.7	
Motor & Pump P 328	48.2	41.6	41.6	41.6	
Motor & Pump P 329	47.8	41.1	41.1	41.1	
Motor & Pump P 451	39.1	32.5	32.5	32.5	
Motor & Pump P 453	43.1	36.4	36.4	36.4	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	43.1	36.4	36.4	36.4	
Motor & Pump P 458	36.8	30.1	30.1	30.1	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	40.6	33.9	33.9	33.9	
P602 100 HP	33.1	26.4	26.4	26.4	
P603 60 HP	31.6	25.0	25.0	25.0	
P605 40 HP	31.7	25.0	25.0	25.0	
P607 15 HP	29.7	23.0	23.0	23.0	
P608 15 HP	26.7	20.1	20.1	20.1	
P611 15 HP	28.9	22.2	22.2	22.2	
P614/615 20 HP	28.5	21.8	21.8	21.8	
Rail Cars Bumping 6 times in during delivery	46.7	49.7			
Scanner Blower C-084A/B	47.0	40.3	40.3	40.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	20.7	14.0	14.0	14.0	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	21.1	14.4	14.4	14.4	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.0	15.3	15.3	15.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	28.8	22.1	22.1	22.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	29.1	22.4	22.4	22.4	
Solar Turbine T70 Boiler-Boiler East 1	25.1	18.5	18.5	18.5	
Solar Turbine T70 Boiler-Boiler East 2	23.1	16.5	16.5	16.5	
Solar Turbine T70 Boiler-Boiler North 1	41.2	34.5	34.5	34.5	
Solar Turbine T70 Boiler-Boiler North 2	31.2	24.5	24.5	24.5	
Solar Turbine T70 Boiler-Boiler Roof	37.4	30.7	30.7	30.7	
Solar Turbine T70 Boiler-Boiler South	42.0	35.3	35.3	35.3	
Solar Turbine T70 Boiler-Boiler South 2	29.7	23.1	23.1	23.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	40.1	33.4	33.4	33.4	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	53.7	47.0	47.0	47.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	53.7	47.0	47.0	47.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	54.4	47.7	47.7	47.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	45.9	39.3	39.3	39.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	42.9	36.2	36.2	36.2	
Solar Turbine T70 SCR-SCR Unit Roof	30.3	23.7	23.7	23.7	
Solar Turbine T70 SCR-SCR Unit NE	22.5	15.8	15.8	15.8	
Solar Turbine T70 SCR-SCR Unit North	30.6	23.9	23.9	23.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 SCR-SCR Unit NW	24.1	17.5	17.5	17.5	
Solar Turbine T70 SCR-SCR Unit SE	27.2	20.5	20.5	20.5	
Solar Turbine T70 SCR-SCR Unit South	34.1	27.5	27.5	27.5	
Solar Turbine T70 SCR-SCR Unit SW	30.2	23.6	23.6	23.6	
xxxx xxxx xxxx xxxx	39.2	37.7	36.0	30.1	
xxxx xxxx xxxx xxxx	38.5	36.9	35.2	29.3	
Tank Farm Pump 1	42.2	35.5	35.5	35.5	
Tank Farm Pump 2	41.5	34.8	34.8	34.8	
Tank Farm Pump 3	41.2	34.6	34.6	34.6	
UP Train Locomotive Delivery and Pickup	42.2	45.3			
Vaporizer Blower 1	42.3	35.7	35.7	35.7	
Vaporizer Blower 2	42.4	35.7	35.7	35.7	
Vaporizer Inlet Silencer	26.6	19.9	19.9	19.9	
Vaporizer Motor 1	37.4	30.8	30.8	30.8	
Vaporizer Motor 2	37.5	30.8	30.8	30.8	
Water Treatment Pumps P-056A&B	42.1	35.4	35.4	35.4	
XF-1502 Splitter Area 1	52.0	45.4	45.4	45.4	
XF-1502 Splitter Area 2	52.2	45.6	45.6	45.6	
XF-1504 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1504 Splitter Area 2	50.5	43.8	43.8	43.8	
XF - 1601	46.9	40.2	40.2	40.2	
XF - 1602	46.8	40.2	40.2	40.2	
XF 304, XF 321	58.1	51.4	51.4	51.4	
XF 313, XF 314	53.5	46.8	46.8	46.8	
XF 335-1, XF 335-2	57.6	50.9	50.9	50.9	
XF 503	59.6	52.9	52.9	52.9	
XF Module 1510	56.2	49.5	49.5	49.5	
XF Module 1519	56.5	49.8	49.8	49.8	
Receiver SS-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 63.4 dB(A) Ld 7-19 dB(A) Leq,N 63.0 dB(A) Le 19-2					
2.8-Open Intake	48.1	41.4	41.4	41.4	
2011 Track Mobile switch moving rail cars 33 cars per day	48.6	51.6			
Air Compressor C 1	54.5	47.8	47.8	47.8	
Air Compressor Pump, Motor Fan CMXF -055	44.3	37.7	37.7	37.7	
Asphalt Production	64.7	58.0	58.0	58.0	
BFW Pumps P-073A&B	34.8	28.1	28.1	28.1	
Blower F 401	53.1	46.4	46.4	46.4	
Boiler Crude Unit-Heater Opening	47.4	40.7	40.7	40.7	
Brine Transfer P-085	41.3	34.6	34.6	34.6	
Burner H301 North	25.5	18.9	18.9	18.9	
Burner H301 South	33.8	27.2	27.2	27.2	
Burner H302 North	27.1	20.4	20.4	20.4	
Burner H302 South	34.7	28.0	28.0	28.0	
Burner H303 North	34.8	28.1	28.1	28.1	
Burner H303 South	42.4	35.8	35.8	35.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H304 North	33.0	26.4	26.4	26.4	
Burner H304 South	36.9	30.2	30.2	30.2	
Burner H305 North	33.9	27.2	27.2	27.2	
Burner H305 South	33.5	26.8	26.8	26.8	
Burner H306 North	31.4	24.7	24.7	24.7	
Burner H306 South	34.6	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House East 1	47.9	41.2	41.2	41.2	
Compressor House C301, C302, C 124-Comp House East 2	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House North	41.2	34.5	34.5	34.5	
Compressor House C301, C302, C 124-Comp House South 1	50.6	44.0	44.0	44.0	
Compressor House C301, C302, C 124-Comp House South 2	42.5	35.9	35.9	35.9	
Compressor House C301, C302, C 124-Comp House West	28.7	22.0	22.0	22.0	
Cooling Tower CT 510-CT 510 East Side	51.9	45.2	45.2	45.2	
Cooling Tower CT 510-CT 510 West Side	37.1	30.4	30.4	30.4	
Cooling Tower CT 511-CT 511 East Side	45.5	38.8	38.8	38.8	
Cooling Tower CT 511-CT 511 West Side	47.1	40.4	40.4	40.4	
Cooling Tower M 512	35.3	28.6	28.6	28.6	
Cooling Tower M 513	35.2	28.5	28.5	28.5	
Cooling Tower M 514	37.8	31.1	31.1	31.1	
Crude Plant Operation 80 dB/m^2 at 1 m	57.6	50.9	50.9	50.9	
xxxx xxxx xxxx xxxx	27.4	20.7	20.7	20.7	
xxxx xxxx xxxx xxxx	39.6	32.9	32.9	32.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	57.6	50.9	50.9	50.9	
xxxx xxxx xxxx xxxx	44.3	37.4	39.8	37.4	
CT Y-600-CT Y-600 North	39.5	32.8	32.8	32.8	
CT Y-600-CT Y-600 South	46.2	39.5	39.5	39.5	
Deaerator Skid P-058A&B	51.1	44.4	44.4	44.4	
xxxx xxxx xxxx xxxx	31.9	30.4	28.7	22.8	
xxxx xxxx xxxx xxxx	31.8	30.3	28.6	22.6	
Exhaust Stack	56.1	49.4	49.4	49.4	
F.G. After Cooler XF-083ABC	46.5	39.8	39.8	39.8	
Fan Y-600	49.8	43.1	43.1	43.1	
FG Compressor Enclosure-FG Enclosure Roof	32.5	25.8	25.8	25.8	
FG Compressor Enclosure-FG Enclosure East	28.5	21.8	21.8	21.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	16.4	9.7	9.7	9.7	
FG Compressor Enclosure-FG Enclosure North	28.9	22.2	22.2	22.2	
FG Compressor Enclosure-FG Enclosure South	30.2	23.5	23.5	23.5	
FG Compressor Enclosure-FG Enclosure West	31.0	24.3	24.3	24.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FG Compressor Enclosure-FG Enclosure West Louver 3	20.2	13.5	13.5	13.5	
Fin Fan XF 616 - Above	32.1	25.4	25.4	25.4	
Fin Fan XF 616 - Below	51.0	44.3	44.3	44.3	
Fin Fan XF 617 - Above	28.7	22.0	22.0	22.0	
Fin Fan XF 617 - Below	46.4	39.7	39.7	39.7	
Heater # 5-Heater	35.5	28.8	28.8	28.8	
Heater # 5-Heater	36.9	30.3	30.3	30.3	
Heater # 5-Heater	39.4	32.7	32.7	32.7	
Heater H 601	38.4	31.7	31.7	31.7	
Hydro Heater H-402	47.0	40.3	40.3	40.3	
ID Fan	45.7	39.1	39.1	39.1	
ID Fan 200 HP Motor	33.4	26.7	26.7	26.7	
Incinirator Compressor & Motor	35.7	29.0	29.0	29.0	
Incinirator Fin Fan	38.5	31.8	31.8	31.8	
xxxx xxxx xxxx xxxx	26.9	25.4	23.7	17.8	
xxxx xxxx xxxx xxxx	27.1	25.6	23.9	18.0	
Lub Oil Cooler XF-061	43.1	36.5	36.5	36.5	
Misc pumps motors	39.5	32.8	32.8	32.8	
Motor & Pump P - 1502 Splitter Reflux Pu	31.5	24.8	24.8	24.8	
Motor & Pump P - 1503 Splitter Bottoms P	32.4	25.8	25.8	25.8	
Motor & Pump P - 1504 Splitter Bottoms P	32.8	26.2	26.2	26.2	
Motor & Pump P - 1507 Reactor Pump	45.3	38.7	38.7	38.7	
Motor & Pump P - 1508 Reactor Pump	45.3	38.6	38.6	38.6	
Motor & Pump P - 1511 Stabilizer Reflux	47.2	40.5	40.5	40.5	
Motor & Pump P - 1512 Stabilizer Reflux	39.0	32.3	32.3	32.3	
Motor & Pump P - 1513 Caustic Circulatin	33.5	26.8	26.8	26.8	
Motor & Pump P - 1514 Caustic Circulatin	35.0	28.4	28.4	28.4	
Motor & Pump P 120/121	29.7	23.1	23.1	23.1	
Motor & Pump P 1505 FRESH FEED PUMPS	38.3	31.6	31.6	31.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.5	34.8	34.8	34.8	
Motor & Pump P 1509 Chloride Injection P	33.8	27.1	27.1	27.1	
Motor & Pump P 1510 Chloride Injection P	33.9	27.2	27.2	27.2	
Motor & Pump P 1601 A	30.4	23.7	23.7	23.7	
Motor & Pump P 1601 B	29.3	22.6	22.6	22.6	
Motor & Pump P 1602 A	28.8	22.1	22.1	22.1	
Motor & Pump P 1602 B	28.5	21.9	21.9	21.9	
Motor & Pump P 211/212	37.4	30.7	30.7	30.7	
Motor & Pump P 215/214	34.7	28.0	28.0	28.0	
Motor & Pump P 216	45.3	38.6	38.6	38.6	
Motor & Pump P 217/218	36.9	30.2	30.2	30.2	
Motor & Pump P 300	29.2	22.5	22.5	22.5	
Motor & Pump P 301	34.1	27.5	27.5	27.5	
Motor & Pump P 302	29.7	23.0	23.0	23.0	
Motor & Pump P 303	30.0	23.4	23.4	23.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 305	31.0	24.3	24.3	24.3	
Motor & Pump P 306	46.4	39.8	39.8	39.8	
Motor & Pump P 307	35.7	29.0	29.0	29.0	
Motor & Pump P 309	31.2	24.5	24.5	24.5	
Motor & Pump P 312	48.7	42.0	42.0	42.0	
Motor & Pump P 313	48.4	41.8	41.8	41.8	
Motor & Pump P 315	49.3	42.7	42.7	42.7	
Motor & Pump P 316	49.3	42.7	42.7	42.7	
Motor & Pump P 317	49.3	42.7	42.7	42.7	
Motor & Pump P 318	46.5	39.9	39.9	39.9	
Motor & Pump P 319	46.8	40.1	40.1	40.1	
Motor & Pump P 327	40.9	34.3	34.3	34.3	
Motor & Pump P 328	43.0	36.4	36.4	36.4	
Motor & Pump P 329	43.4	36.7	36.7	36.7	
Motor & Pump P 451	39.7	33.0	33.0	33.0	
Motor & Pump P 453	46.6	40.0	40.0	40.0	
Motor & Pump P 454	42.8	36.1	36.1	36.1	
Motor & Pump P 457	46.7	40.0	40.0	40.0	
Motor & Pump P 458	42.5	35.8	35.8	35.8	
Motor & Pump P 459	42.8	36.1	36.1	36.1	
Motor & Pump P 56A/B	40.9	34.2	34.2	34.2	
P602 100 HP	36.5	29.8	29.8	29.8	
P603 60 HP	36.4	29.8	29.8	29.8	
P605 40 HP	36.7	30.0	30.0	30.0	
P607 15 HP	32.9	26.2	26.2	26.2	
P608 15 HP	32.4	25.7	25.7	25.7	
P611 15 HP	32.6	25.9	25.9	25.9	
P614/615 20 HP	27.2	20.6	20.6	20.6	
Rail Cars Bumping 6 times in during delivery	45.6	48.6			
Scanner Blower C-084A/B	42.9	36.2	36.2	36.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	22.6	15.9	15.9	15.9	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	21.5	14.8	14.8	14.8	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	22.3	15.7	15.7	15.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	26.6	19.9	19.9	19.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	28.0	21.4	21.4	21.4	
Solar Turbine T70 Boiler-Boiler East 1	21.6	15.0	15.0	15.0	
Solar Turbine T70 Boiler-Boiler East 2	19.9	13.3	13.3	13.3	
Solar Turbine T70 Boiler-Boiler North 1	36.0	29.3	29.3	29.3	
Solar Turbine T70 Boiler-Boiler North 2	25.9	19.2	19.2	19.2	
Solar Turbine T70 Boiler-Boiler Roof	36.9	30.3	30.3	30.3	
Solar Turbine T70 Boiler-Boiler South	39.4	32.7	32.7	32.7	
Solar Turbine T70 Boiler-Boiler South 2	29.0	22.3	22.3	22.3	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	42.5	35.9	35.9	35.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	47.5	40.8	40.8	40.8	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.1	44.4	44.4	44.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	50.2	43.6	43.6	43.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	37.8	31.1	31.1	31.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	40.8	34.1	34.1	34.1	
Solar Turbine T70 SCR-SCR Unit Roof	29.6	23.0	23.0	23.0	
Solar Turbine T70 SCR-SCR Unit NE	18.2	11.5	11.5	11.5	
Solar Turbine T70 SCR-SCR Unit North	27.6	20.9	20.9	20.9	
Solar Turbine T70 SCR-SCR Unit NW	24.2	17.6	17.6	17.6	
Solar Turbine T70 SCR-SCR Unit SE	23.4	16.8	16.8	16.8	
Solar Turbine T70 SCR-SCR Unit South	30.1	23.4	23.4	23.4	
Solar Turbine T70 SCR-SCR Unit SW	27.3	20.6	20.6	20.6	
xxxx xxxx xxxx xxxx	39.6	38.1	36.4	30.5	
xxxx xxxx xxxx xxxx	39.3	37.8	36.1	30.2	
Tank Farm Pump 1	39.3	32.6	32.6	32.6	
Tank Farm Pump 2	43.3	36.6	36.6	36.6	
Tank Farm Pump 3	44.0	37.3	37.3	37.3	
UP Train Locomotive Delivery and Pickup	41.6	44.6			
Vaporizer Blower 1	32.4	25.7	25.7	25.7	
Vaporizer Blower 2	32.4	25.7	25.7	25.7	
Vaporizer Inlet Silencer	19.3	12.7	12.7	12.7	
Vaporizer Motor 1	27.0	20.4	20.4	20.4	
Vaporizer Motor 2	32.7	26.1	26.1	26.1	
Water Treatment Pumps P-056A&B	36.0	29.3	29.3	29.3	
XF-1502 Splitter Area 1	47.2	40.5	40.5	40.5	
XF-1502 Splitter Area 2	47.4	40.8	40.8	40.8	
XF-1504 Splitter Area 1	49.8	43.1	43.1	43.1	
XF-1504 Splitter Area 2	50.2	43.5	43.5	43.5	
XF - 1601	44.4	37.7	37.7	37.7	
XF - 1602	44.4	37.7	37.7	37.7	
XF 304, XF 321	52.4	45.7	45.7	45.7	
XF 313, XF 314	52.1	45.4	45.4	45.4	
XF 335-1, XF 335-2	52.8	46.1	46.1	46.1	
XF 503	55.7	49.0	49.0	49.0	
XF Module 1510	50.4	43.7	43.7	43.7	
XF Module 1519	50.8	44.1	44.1	44.1	
Receiver SS-4 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.4 dB(A)	Ld 7-19 dB(A)	Leq,N 64.0 dB(A)	Le 19-
2.8-Open Intake	48.2	41.5	41.5	41.5	
2011 Track Mobile switch moving rail cars 33 cars per day	48.7	51.7			
Air Compressor C 1	55.2	48.5	48.5	48.5	
Air Compressor Pump, Motor Fan CMXF -055	45.9	39.2	39.2	39.2	
Asphalt Production	65.5	58.8	58.8	58.8	
BFW Pumps P-073A&B	35.8	29.1	29.1	29.1	
Blower F 401	54.9	48.2	48.2	48.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Crude Unit-Heater Opening	48.8	42.1	42.1	42.1	
Brine Transfer P-085	41.5	34.8	34.8	34.8	
Burner H301 North	26.2	19.5	19.5	19.5	
Burner H301 South	34.8	28.2	28.2	28.2	
Burner H302 North	27.6	20.9	20.9	20.9	
Burner H302 South	36.7	30.0	30.0	30.0	
Burner H303 North	36.3	29.7	29.7	29.7	
Burner H303 South	42.4	35.8	35.8	35.8	
Burner H304 North	34.4	27.7	27.7	27.7	
Burner H304 South	38.3	31.7	31.7	31.7	
Burner H305 North	35.6	29.0	29.0	29.0	
Burner H305 South	34.7	28.0	28.0	28.0	
Burner H306 North	33.4	26.7	26.7	26.7	
Burner H306 South	36.2	29.5	29.5	29.5	
Compressor House C301, C302, C 124-Comp House East 1	49.7	43.0	43.0	43.0	
Compressor House C301, C302, C 124-Comp House East 2	47.2	40.6	40.6	40.6	
Compressor House C301, C302, C 124-Comp House North	42.0	35.3	35.3	35.3	
Compressor House C301, C302, C 124-Comp House South 1	51.5	44.8	44.8	44.8	
Compressor House C301, C302, C 124-Comp House South 2	44.5	37.8	37.8	37.8	
Compressor House C301, C302, C 124-Comp House West	29.8	23.1	23.1	23.1	
Cooling Tower CT 510-CT 510 East Side	52.4	45.7	45.7	45.7	
Cooling Tower CT 510-CT 510 West Side	38.0	31.3	31.3	31.3	
Cooling Tower CT 511-CT 511 East Side	46.2	39.5	39.5	39.5	
Cooling Tower CT 511-CT 511 West Side	47.7	41.1	41.1	41.1	
Cooling Tower M 512	35.4	28.7	28.7	28.7	
Cooling Tower M 513	35.4	28.7	28.7	28.7	
Cooling Tower M 514	37.8	31.1	31.1	31.1	
Crude Plant Operation 80 dB/m^2 at 1 m	58.2	51.5	51.5	51.5	
xxxx xxxx xxxx xxxx	26.9	20.2	20.2	20.2	
xxxx xxxx xxxx xxxx	39.7	33.0	33.0	33.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	58.3	51.6	51.6	51.6	
xxxx xxxx xxxx xxxx	44.6	37.7	40.1	37.7	
CT Y-600-CT Y-600 North	40.8	34.1	34.1	34.1	
CT Y-600-CT Y-600 South	47.1	40.4	40.4	40.4	
Deaerator Skid P-058A&B	51.2	44.5	44.5	44.5	
xxxx xxxx xxxx xxxx	33.0	31.5	29.8	23.9	
xxxx xxxx xxxx xxxx	32.8	31.3	29.6	23.7	
Exhaust Stack	57.0	50.3	50.3	50.3	
F.G. After Cooler XF-083ABC	47.7	41.0	41.0	41.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Fan Y-600	51.2	44.5	44.5	44.5	
FG Compressor Enclosure-FG Enclosure Roof	32.7	26.0	26.0	26.0	
FG Compressor Enclosure-FG Enclosure East	28.8	22.1	22.1	22.1	
FG Compressor Enclosure-FG Enclosure East Louver 1	17.2	10.5	10.5	10.5	
FG Compressor Enclosure-FG Enclosure North	29.6	22.9	22.9	22.9	
FG Compressor Enclosure-FG Enclosure South	30.6	23.9	23.9	23.9	
FG Compressor Enclosure-FG Enclosure West	31.5	24.8	24.8	24.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	21.6	15.0	15.0	15.0	
Fin Fan XF 616 - Above	34.4	27.7	27.7	27.7	
Fin Fan XF 616 - Below	52.1	45.4	45.4	45.4	
Fin Fan XF 617 - Above	31.0	24.3	24.3	24.3	
Fin Fan XF 617 - Below	47.7	41.0	41.0	41.0	
Heater # 5-Heater	36.4	29.7	29.7	29.7	
Heater # 5-Heater	37.8	31.1	31.1	31.1	
Heater # 5-Heater	39.9	33.2	33.2	33.2	
Heater H 601	39.7	33.1	33.1	33.1	
Hydro Heater H-402	47.9	41.3	41.3	41.3	
ID Fan	47.1	40.4	40.4	40.4	
ID Fan 200 HP Motor	33.8	27.1	27.1	27.1	
Incinirator Compressor & Motor	37.8	31.1	31.1	31.1	
Incinirator Fin Fan	40.5	33.9	33.9	33.9	
xxxx xxxx xxxx xxxx	27.5	26.0	24.3	18.4	
xxxx xxxx xxxx xxxx	27.9	26.4	24.6	18.7	
Lub Oil Cooler XF-061	47.0	40.3	40.3	40.3	
Misc pumps motors	42.1	35.4	35.4	35.4	
Motor & Pump P - 1502 Splitter Reflux Pu	31.4	24.7	24.7	24.7	
Motor & Pump P - 1503 Splitter Bottoms P	32.4	25.7	25.7	25.7	
Motor & Pump P - 1504 Splitter Bottoms P	32.9	26.2	26.2	26.2	
Motor & Pump P - 1507 Reactor Pump	44.8	38.1	38.1	38.1	
Motor & Pump P - 1508 Reactor Pump	44.8	38.1	38.1	38.1	
Motor & Pump P - 1511 Stabilizer Reflux	46.6	39.9	39.9	39.9	
Motor & Pump P - 1512 Stabilizer Reflux	39.6	32.9	32.9	32.9	
Motor & Pump P - 1513 Caustic Circulatin	33.6	26.9	26.9	26.9	
Motor & Pump P - 1514 Caustic Circulatin	35.0	28.3	28.3	28.3	
Motor & Pump P 120/121	30.0	23.3	23.3	23.3	
Motor & Pump P 1505 FRESH FEED PUMPS	38.0	31.4	31.4	31.4	
Motor & Pump P 1506 FRESH FEED PUMPS	41.1	34.4	34.4	34.4	
Motor & Pump P 1509 Chloride Injection P	33.7	27.0	27.0	27.0	
Motor & Pump P 1510 Chloride Injection P	33.9	27.2	27.2	27.2	
Motor & Pump P 1601 A	30.6	23.9	23.9	23.9	
Motor & Pump P 1601 B	29.5	22.8	22.8	22.8	
Motor & Pump P 1602 A	29.0	22.3	22.3	22.3	
Motor & Pump P 1602 B	28.8	22.1	22.1	22.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 211/212	38.4	31.7	31.7	31.7	
Motor & Pump P 215/214	37.7	31.0	31.0	31.0	
Motor & Pump P 216	45.3	38.6	38.6	38.6	
Motor & Pump P 217/218	37.5	30.8	30.8	30.8	
Motor & Pump P 300	29.5	22.8	22.8	22.8	
Motor & Pump P 301	34.4	27.7	27.7	27.7	
Motor & Pump P 302	30.2	23.6	23.6	23.6	
Motor & Pump P 303	30.7	24.0	24.0	24.0	
Motor & Pump P 305	31.8	25.2	25.2	25.2	
Motor & Pump P 306	47.7	41.1	41.1	41.1	
Motor & Pump P 307	36.0	29.3	29.3	29.3	
Motor & Pump P 309	32.0	25.3	25.3	25.3	
Motor & Pump P 312	49.0	42.3	42.3	42.3	
Motor & Pump P 313	48.8	42.1	42.1	42.1	
Motor & Pump P 315	49.9	43.2	43.2	43.2	
Motor & Pump P 316	50.0	43.3	43.3	43.3	
Motor & Pump P 317	50.1	43.4	43.4	43.4	
Motor & Pump P 318	47.0	40.4	40.4	40.4	
Motor & Pump P 319	47.3	40.6	40.6	40.6	
Motor & Pump P 327	41.5	34.8	34.8	34.8	
Motor & Pump P 328	43.6	36.9	36.9	36.9	
Motor & Pump P 329	43.9	37.2	37.2	37.2	
Motor & Pump P 451	39.7	33.0	33.0	33.0	
Motor & Pump P 453	46.7	40.0	40.0	40.0	
Motor & Pump P 454	42.6	35.9	35.9	35.9	
Motor & Pump P 457	46.7	40.1	40.1	40.1	
Motor & Pump P 458	42.6	35.9	35.9	35.9	
Motor & Pump P 459	42.7	36.0	36.0	36.0	
Motor & Pump P 56A/B	41.8	35.1	35.1	35.1	
P602 100 HP	36.9	30.2	30.2	30.2	
P603 60 HP	36.4	29.7	29.7	29.7	
P605 40 HP	37.1	30.4	30.4	30.4	
P607 15 HP	32.8	26.2	26.2	26.2	
P608 15 HP	32.3	25.6	25.6	25.6	
P611 15 HP	32.5	25.9	25.9	25.9	
P614/615 20 HP	28.1	21.5	21.5	21.5	
Rail Cars Bumping 6 times in during delivery	46.4	49.5			
Scanner Blower C-084A/B	44.5	37.8	37.8	37.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	23.0	16.3	16.3	16.3	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	21.9	15.2	15.2	15.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	23.0	16.3	16.3	16.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	27.2	20.5	20.5	20.5	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	28.8	22.1	22.1	22.1	
Solar Turbine T70 Boiler-Boiler East 1	24.2	17.5	17.5	17.5	
Solar Turbine T70 Boiler-Boiler East 2	22.4	15.7	15.7	15.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Boiler-Boiler North 1	37.7	31.0	31.0	31.0	
Solar Turbine T70 Boiler-Boiler North 2	28.4	21.7	21.7	21.7	
Solar Turbine T70 Boiler-Boiler Roof	37.4	30.7	30.7	30.7	
Solar Turbine T70 Boiler-Boiler South	40.2	33.5	33.5	33.5	
Solar Turbine T70 Boiler-Boiler South 2	30.1	23.5	23.5	23.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	43.8	37.2	37.2	37.2	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	50.5	43.9	43.9	43.9	
Solar Turbine T70 Enclosure-T70 Encl. Roof	52.6	46.0	46.0	46.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	51.9	45.2	45.2	45.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	41.2	34.5	34.5	34.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	42.5	35.8	35.8	35.8	
Solar Turbine T70 SCR-SCR Unit Roof	30.9	24.3	24.3	24.3	
Solar Turbine T70 SCR-SCR Unit NE	19.2	12.6	12.6	12.6	
Solar Turbine T70 SCR-SCR Unit North	28.4	21.8	21.8	21.8	
Solar Turbine T70 SCR-SCR Unit NW	24.8	18.1	18.1	18.1	
Solar Turbine T70 SCR-SCR Unit SE	24.3	17.7	17.7	17.7	
Solar Turbine T70 SCR-SCR Unit South	30.9	24.3	24.3	24.3	
Solar Turbine T70 SCR-SCR Unit SW	28.0	21.3	21.3	21.3	
xxxx xxxx xxxx xxxx	41.3	39.8	38.1	32.2	
xxxx xxxx xxxx xxxx	40.7	39.2	37.5	31.5	
Tank Farm Pump 1	40.7	34.1	34.1	34.1	
Tank Farm Pump 2	44.6	37.9	37.9	37.9	
Tank Farm Pump 3	43.8	37.1	37.1	37.1	
UP Train Locomotive Delivery and Pickup	41.7	44.7			
Vaporizer Blower 1	34.8	28.1	28.1	28.1	
Vaporizer Blower 2	34.8	28.2	28.2	28.2	
Vaporizer Inlet Silencer	22.3	15.7	15.7	15.7	
Vaporizer Motor 1	29.5	22.8	22.8	22.8	
Vaporizer Motor 2	33.0	26.4	26.4	26.4	
Water Treatment Pumps P-056A&B	36.9	30.2	30.2	30.2	
XF-1502 Splitter Area 1	46.2	39.5	39.5	39.5	
XF-1502 Splitter Area 2	46.5	39.8	39.8	39.8	
XF-1504 Splitter Area 1	50.8	44.1	44.1	44.1	
XF-1504 Splitter Area 2	51.0	44.4	44.4	44.4	
XF - 1601	45.8	39.1	39.1	39.1	
XF - 1602	45.8	39.2	39.2	39.2	
XF 304, XF 321	55.5	48.8	48.8	48.8	
XF 313, XF 314	53.7	47.0	47.0	47.0	
XF 335-1, XF 335-2	55.1	48.5	48.5	48.5	
XF 503	57.4	50.8	50.8	50.8	
XF Module 1510	51.2	44.6	44.6	44.6	
XF Module 1519	51.6	45.0	45.0	45.0	
Receiver SS-4 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.7 dB(A) Ld 7-19 dB(A) Leq,N 64.3 dB(A) Le 19-					

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
2.8-Open Intake	48.2	41.5	41.5	41.5	
2011 Track Mobile switch moving rail cars 33 cars per day	48.7	51.7			
Air Compressor C 1	54.9	48.3	48.3	48.3	
Air Compressor Pump, Motor Fan CMXF -055	47.3	40.7	40.7	40.7	
Asphalt Production	65.5	58.9	58.9	58.9	
BFW Pumps P-073A&B	36.1	29.4	29.4	29.4	
Blower F 401	55.3	48.6	48.6	48.6	
Boiler Crude Unit-Heater Opening	49.3	42.6	42.6	42.6	
Brine Transfer P-085	41.6	34.9	34.9	34.9	
Burner H301 North	28.0	21.4	21.4	21.4	
Burner H301 South	37.4	30.7	30.7	30.7	
Burner H302 North	28.6	22.0	22.0	22.0	
Burner H302 South	38.0	31.4	31.4	31.4	
Burner H303 North	38.3	31.6	31.6	31.6	
Burner H303 South	43.9	37.2	37.2	37.2	
Burner H304 North	35.4	28.7	28.7	28.7	
Burner H304 South	40.3	33.7	33.7	33.7	
Burner H305 North	36.8	30.2	30.2	30.2	
Burner H305 South	35.8	29.2	29.2	29.2	
Burner H306 North	34.1	27.4	27.4	27.4	
Burner H306 South	37.9	31.2	31.2	31.2	
Compressor House C301, C302, C 124-Comp House East 1	51.0	44.4	44.4	44.4	
Compressor House C301, C302, C 124-Comp House East 2	48.3	41.6	41.6	41.6	
Compressor House C301, C302, C 124-Comp House North	43.8	37.1	37.1	37.1	
Compressor House C301, C302, C 124-Comp House South 1	51.8	45.2	45.2	45.2	
Compressor House C301, C302, C 124-Comp House South 2	45.9	39.2	39.2	39.2	
Compressor House C301, C302, C 124-Comp House West	31.1	24.4	24.4	24.4	
Cooling Tower CT 510-CT 510 East Side	52.4	45.8	45.8	45.8	
Cooling Tower CT 510-CT 510 West Side	38.2	31.5	31.5	31.5	
Cooling Tower CT 511-CT 511 East Side	46.4	39.7	39.7	39.7	
Cooling Tower CT 511-CT 511 West Side	47.9	41.2	41.2	41.2	
Cooling Tower M 512	37.4	30.7	30.7	30.7	
Cooling Tower M 513	37.5	30.8	30.8	30.8	
Cooling Tower M 514	39.1	32.4	32.4	32.4	
Crude Plant Operation 80 dB/m^2 at 1 m	58.4	51.8	51.8	51.8	
xxxx xxxx xxxx xxxx	27.9	21.2	21.2	21.2	
xxxx xxxx xxxx xxxx	41.0	34.3	34.3	34.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	58.9	52.3	52.3	52.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	45.5	38.6	41.0	38.6	
CT Y-600-CT Y-600 North	41.1	34.4	34.4	34.4	
CT Y-600-CT Y-600 South	47.4	40.7	40.7	40.7	
Deaerator Skid P-058A&B	51.3	44.6	44.6	44.6	
xxxx xxxx xxxx xxxx	34.2	32.6	30.9	25.0	
xxxx xxxx xxxx xxxx	34.1	32.6	30.9	24.9	
Exhaust Stack	57.1	50.5	50.5	50.5	
F.G. After Cooler XF-083ABC	48.1	41.4	41.4	41.4	
Fan Y-600	51.6	44.9	44.9	44.9	
FG Compressor Enclosure-FG Enclosure Roof	32.9	26.3	26.3	26.3	
FG Compressor Enclosure-FG Enclosure East	29.0	22.4	22.4	22.4	
FG Compressor Enclosure-FG Enclosure East Louver 1	17.2	10.5	10.5	10.5	
FG Compressor Enclosure-FG Enclosure North	29.9	23.3	23.3	23.3	
FG Compressor Enclosure-FG Enclosure South	31.0	24.3	24.3	24.3	
FG Compressor Enclosure-FG Enclosure West	31.7	25.0	25.0	25.0	
FG Compressor Enclosure-FG Enclosure West Louver 3	21.8	15.1	15.1	15.1	
Fin Fan XF 616 - Above	35.5	28.8	28.8	28.8	
Fin Fan XF 616 - Below	52.0	45.3	45.3	45.3	
Fin Fan XF 617 - Above	32.1	25.4	25.4	25.4	
Fin Fan XF 617 - Below	47.6	41.0	41.0	41.0	
Heater # 5-Heater	36.6	29.9	29.9	29.9	
Heater # 5-Heater	38.0	31.3	31.3	31.3	
Heater # 5-Heater	40.2	33.5	33.5	33.5	
Heater H 601	40.3	33.6	33.6	33.6	
Hydro Heater H-402	48.1	41.4	41.4	41.4	
ID Fan	47.5	40.8	40.8	40.8	
ID Fan 200 HP Motor	33.5	26.8	26.8	26.8	
Incinirator Compressor & Motor	37.5	30.8	30.8	30.8	
Incinirator Fin Fan	40.1	33.4	33.4	33.4	
xxxx xxxx xxxx xxxx	29.2	27.7	26.0	20.1	
xxxx xxxx xxxx xxxx	29.3	27.8	26.1	20.2	
Lub Oil Cooler XF-061	47.6	41.0	41.0	41.0	
Misc pumps motors	43.0	36.3	36.3	36.3	
Motor & Pump P - 1502 Splitter Reflux Pu	31.8	25.1	25.1	25.1	
Motor & Pump P - 1503 Splitter Bottoms P	32.9	26.2	26.2	26.2	
Motor & Pump P - 1504 Splitter Bottoms P	33.3	26.7	26.7	26.7	
Motor & Pump P - 1507 Reactor Pump	45.0	38.3	38.3	38.3	
Motor & Pump P - 1508 Reactor Pump	45.0	38.3	38.3	38.3	
Motor & Pump P - 1511 Stabilizer Reflux	46.5	39.8	39.8	39.8	
Motor & Pump P - 1512 Stabilizer Reflux	39.8	33.1	33.1	33.1	
Motor & Pump P - 1513 Caustic Circulatin	34.1	27.4	27.4	27.4	
Motor & Pump P - 1514 Caustic Circulatin	35.3	28.6	28.6	28.6	
Motor & Pump P 120/121	30.7	24.0	24.0	24.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1505 FRESH FEED PUMPS	38.4	31.7	31.7	31.7	
Motor & Pump P 1506 FRESH FEED PUMPS	41.3	34.6	34.6	34.6	
Motor & Pump P 1509 Chloride Injection P	33.6	26.9	26.9	26.9	
Motor & Pump P 1510 Chloride Injection P	33.7	27.1	27.1	27.1	
Motor & Pump P 1601 A	32.5	25.8	25.8	25.8	
Motor & Pump P 1601 B	31.8	25.1	25.1	25.1	
Motor & Pump P 1602 A	31.5	24.8	24.8	24.8	
Motor & Pump P 1602 B	31.4	24.8	24.8	24.8	
Motor & Pump P 211/212	39.4	32.8	32.8	32.8	
Motor & Pump P 215/214	38.6	31.9	31.9	31.9	
Motor & Pump P 216	45.8	39.1	39.1	39.1	
Motor & Pump P 217/218	38.6	31.9	31.9	31.9	
Motor & Pump P 300	29.0	22.4	22.4	22.4	
Motor & Pump P 301	34.0	27.3	27.3	27.3	
Motor & Pump P 302	30.1	23.5	23.5	23.5	
Motor & Pump P 303	31.0	24.3	24.3	24.3	
Motor & Pump P 305	32.1	25.5	25.5	25.5	
Motor & Pump P 306	48.2	41.5	41.5	41.5	
Motor & Pump P 307	36.3	29.6	29.6	29.6	
Motor & Pump P 309	32.1	25.4	25.4	25.4	
Motor & Pump P 312	48.8	42.1	42.1	42.1	
Motor & Pump P 313	48.6	41.9	41.9	41.9	
Motor & Pump P 315	50.2	43.5	43.5	43.5	
Motor & Pump P 316	50.3	43.6	43.6	43.6	
Motor & Pump P 317	50.3	43.6	43.6	43.6	
Motor & Pump P 318	46.9	40.2	40.2	40.2	
Motor & Pump P 319	47.1	40.4	40.4	40.4	
Motor & Pump P 327	41.1	34.4	34.4	34.4	
Motor & Pump P 328	44.2	37.5	37.5	37.5	
Motor & Pump P 329	44.8	38.1	38.1	38.1	
Motor & Pump P 451	39.8	33.2	33.2	33.2	
Motor & Pump P 453	46.7	40.0	40.0	40.0	
Motor & Pump P 454	42.7	36.0	36.0	36.0	
Motor & Pump P 457	46.8	40.1	40.1	40.1	
Motor & Pump P 458	42.6	35.9	35.9	35.9	
Motor & Pump P 459	42.7	36.1	36.1	36.1	
Motor & Pump P 56A/B	42.3	35.6	35.6	35.6	
P602 100 HP	37.6	30.9	30.9	30.9	
P603 60 HP	36.9	30.3	30.3	30.3	
P605 40 HP	36.9	30.2	30.2	30.2	
P607 15 HP	33.7	27.0	27.0	27.0	
P608 15 HP	33.3	26.7	26.7	26.7	
P611 15 HP	33.4	26.7	26.7	26.7	
P614/615 20 HP	28.5	21.8	21.8	21.8	
Rail Cars Bumping 6 times in during delivery	46.6	49.6			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Scanner Blower C-084A/B	45.5	38.8	38.8	38.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	23.0	16.4	16.4	16.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	22.3	15.6	15.6	15.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	23.2	16.5	16.5	16.5	
Solar Turbine T70 2nd Boiler-2nd Boiler South	27.3	20.7	20.7	20.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	28.9	22.3	22.3	22.3	
Solar Turbine T70 Boiler-Boiler East 1	25.6	18.9	18.9	18.9	
Solar Turbine T70 Boiler-Boiler East 2	22.8	16.1	16.1	16.1	
Solar Turbine T70 Boiler-Boiler North 1	38.2	31.5	31.5	31.5	
Solar Turbine T70 Boiler-Boiler North 2	28.8	22.1	22.1	22.1	
Solar Turbine T70 Boiler-Boiler Roof	37.5	30.9	30.9	30.9	
Solar Turbine T70 Boiler-Boiler South	40.8	34.1	34.1	34.1	
Solar Turbine T70 Boiler-Boiler South 2	30.8	24.1	24.1	24.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	44.8	38.2	38.2	38.2	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	51.3	44.6	44.6	44.6	
Solar Turbine T70 Enclosure-T70 Encl. Roof	52.9	46.3	46.3	46.3	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	52.8	46.1	46.1	46.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	41.8	35.1	35.1	35.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	43.4	36.8	36.8	36.8	
Solar Turbine T70 SCR-SCR Unit Roof	30.3	23.6	23.6	23.6	
Solar Turbine T70 SCR-SCR Unit NE	19.5	12.8	12.8	12.8	
Solar Turbine T70 SCR-SCR Unit North	28.6	21.9	21.9	21.9	
Solar Turbine T70 SCR-SCR Unit NW	25.1	18.4	18.4	18.4	
Solar Turbine T70 SCR-SCR Unit SE	24.7	18.1	18.1	18.1	
Solar Turbine T70 SCR-SCR Unit South	31.1	24.4	24.4	24.4	
Solar Turbine T70 SCR-SCR Unit SW	28.2	21.5	21.5	21.5	
xxxx xxxx xxxx xxxx	42.2	40.7	38.9	33.0	
xxxx xxxx xxxx xxxx	41.5	40.0	38.3	32.4	
Tank Farm Pump 1	42.2	35.5	35.5	35.5	
Tank Farm Pump 2	43.2	36.5	36.5	36.5	
Tank Farm Pump 3	41.4	34.8	34.8	34.8	
UP Train Locomotive Delivery and Pickup	41.7	44.7			
Vaporizer Blower 1	38.1	31.4	31.4	31.4	
Vaporizer Blower 2	38.1	31.4	31.4	31.4	
Vaporizer Inlet Silencer	22.7	16.1	16.1	16.1	
Vaporizer Motor 1	32.9	26.3	26.3	26.3	
Vaporizer Motor 2	34.9	28.2	28.2	28.2	
Water Treatment Pumps P-056A&B	37.2	30.6	30.6	30.6	
XF-1502 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1502 Splitter Area 2	48.8	42.1	42.1	42.1	
XF-1504 Splitter Area 1	51.0	44.3	44.3	44.3	
XF-1504 Splitter Area 2	51.2	44.5	44.5	44.5	
XF - 1601	46.0	39.4	39.4	39.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF - 1602	46.0	39.4	39.4	39.4	
XF 304, XF 321	56.3	49.7	49.7	49.7	
XF 313, XF 314	54.6	47.9	47.9	47.9	
XF 335-1, XF 335-2	55.8	49.2	49.2	49.2	
XF 503	57.9	51.2	51.2	51.2	
XF Module 1510	50.5	43.9	43.9	43.9	
XF Module 1519	50.9	44.2	44.2	44.2	
Receiver SS-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.5 dB(A) Ld 7-19 dB(A) Leq,N 64.2 dB(A) Le 19-2					
2.8-Open Intake	47.2	40.5	40.5	40.5	
2011 Track Mobile switch moving rail cars 33 cars per day	47.3	50.4			
Air Compressor C 1	55.8	49.1	49.1	49.1	
Air Compressor Pump, Motor Fan CMXF -055	41.7	35.1	35.1	35.1	
Asphalt Production	66.4	59.7	59.7	59.7	
BFW Pumps P-073A&B	38.2	31.5	31.5	31.5	
Blower F 401	52.0	45.3	45.3	45.3	
Boiler Crude Unit-Heater Opening	46.5	39.8	39.8	39.8	
Brine Transfer P-085	35.9	29.2	29.2	29.2	
Burner H301 North	26.1	19.4	19.4	19.4	
Burner H301 South	37.4	30.7	30.7	30.7	
Burner H302 North	28.2	21.5	21.5	21.5	
Burner H302 South	37.0	30.3	30.3	30.3	
Burner H303 North	33.0	26.4	26.4	26.4	
Burner H303 South	37.4	30.7	30.7	30.7	
Burner H304 North	29.5	22.8	22.8	22.8	
Burner H304 South	35.2	28.5	28.5	28.5	
Burner H305 North	34.0	27.4	27.4	27.4	
Burner H305 South	30.5	23.9	23.9	23.9	
Burner H306 North	31.1	24.4	24.4	24.4	
Burner H306 South	35.5	28.8	28.8	28.8	
Compressor House C301, C302, C 124-Comp House East 1	45.9	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House East 2	44.1	37.5	37.5	37.5	
Compressor House C301, C302, C 124-Comp House North	42.6	36.0	36.0	36.0	
Compressor House C301, C302, C 124-Comp House South 1	48.7	42.1	42.1	42.1	
Compressor House C301, C302, C 124-Comp House South 2	43.8	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House West	25.3	18.6	18.6	18.6	
Cooling Tower CT 510-CT 510 East Side	48.8	42.1	42.1	42.1	
Cooling Tower CT 510-CT 510 West Side	24.6	17.9	17.9	17.9	
Cooling Tower CT 511-CT 511 East Side	54.6	47.9	47.9	47.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 West Side	35.4	28.7	28.7	28.7	
Cooling Tower M 512	49.1	42.4	42.4	42.4	
Cooling Tower M 513	46.8	40.2	40.2	40.2	
Cooling Tower M 514	49.1	42.4	42.4	42.4	
Crude Plant Operation 80 dB/m^2 at 1 m	60.7	54.0	54.0	54.0	
xxxx xxxx xxxx xxxx	22.7	16.1	16.1	16.1	
xxxx xxxx xxxx xxxx	35.2	28.5	28.5	28.5	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	60.2	53.5	53.5	53.5	
xxxx xxxx xxxx xxxx	46.5	39.6	42.0	39.6	
CT Y-600-CT Y-600 North	37.3	30.6	30.6	30.6	
CT Y-600-CT Y-600 South	54.4	47.7	47.7	47.7	
Deaerator Skid P-058A&B	49.3	42.6	42.6	42.6	
xxxx xxxx xxxx xxxx	29.7	28.2	26.5	20.6	
xxxx xxxx xxxx xxxx	29.6	28.1	26.4	20.5	
Exhaust Stack	54.1	47.4	47.4	47.4	
F.G. After Cooler XF-083ABC	46.0	39.3	39.3	39.3	
Fan Y-600	53.0	46.3	46.3	46.3	
FG Compressor Enclosure-FG Enclosure Roof	31.5	24.8	24.8	24.8	
FG Compressor Enclosure-FG Enclosure East	27.9	21.2	21.2	21.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	13.2	6.5	6.5	6.5	
FG Compressor Enclosure-FG Enclosure North	28.7	22.0	22.0	22.0	
FG Compressor Enclosure-FG Enclosure South	27.3	20.6	20.6	20.6	
FG Compressor Enclosure-FG Enclosure West	32.1	25.4	25.4	25.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.8	16.1	16.1	16.1	
Fin Fan XF 616 - Above	34.0	27.3	27.3	27.3	
Fin Fan XF 616 - Below	55.2	48.5	48.5	48.5	
Fin Fan XF 617 - Above	30.5	23.8	23.8	23.8	
Fin Fan XF 617 - Below	50.6	44.0	44.0	44.0	
Heater # 5-Heater	46.2	39.6	39.6	39.6	
Heater # 5-Heater	46.2	39.5	39.5	39.5	
Heater # 5-Heater	46.4	39.7	39.7	39.7	
Heater H 601	42.3	35.7	35.7	35.7	
Hydro Heater H-402	46.1	39.5	39.5	39.5	
ID Fan	43.3	36.7	36.7	36.7	
ID Fan 200 HP Motor	29.3	22.6	22.6	22.6	
Incinirator Compressor & Motor	37.6	30.9	30.9	30.9	
Incinirator Fin Fan	40.2	33.5	33.5	33.5	
xxxx xxxx xxxx xxxx	27.9	26.4	24.7	18.8	
xxxx xxxx xxxx xxxx	27.9	26.4	24.7	18.8	
Lub Oil Cooler XF-061	44.0	37.4	37.4	37.4	
Misc pumps motors	38.6	31.9	31.9	31.9	
Motor & Pump P - 1502 Splitter Reflux Pu	29.6	23.0	23.0	23.0	
Motor & Pump P - 1503 Splitter Bottoms P	32.3	25.6	25.6	25.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	32.6	26.0	26.0	26.0	
Motor & Pump P - 1507 Reactor Pump	30.7	24.1	24.1	24.1	
Motor & Pump P - 1508 Reactor Pump	31.8	25.1	25.1	25.1	
Motor & Pump P - 1511 Stabilizer Reflux	32.6	26.0	26.0	26.0	
Motor & Pump P - 1512 Stabilizer Reflux	39.9	33.3	33.3	33.3	
Motor & Pump P - 1513 Caustic Circulatin	31.2	24.5	24.5	24.5	
Motor & Pump P - 1514 Caustic Circulatin	41.7	35.0	35.0	35.0	
Motor & Pump P 120/121	28.1	21.4	21.4	21.4	
Motor & Pump P 1505 FRESH FEED PUMPS	26.7	20.1	20.1	20.1	
Motor & Pump P 1506 FRESH FEED PUMPS	30.8	24.2	24.2	24.2	
Motor & Pump P 1509 Chloride Injection P	37.6	30.9	30.9	30.9	
Motor & Pump P 1510 Chloride Injection P	36.7	30.0	30.0	30.0	
Motor & Pump P 1601 A	28.0	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.1	21.5	21.5	21.5	
Motor & Pump P 1602 A	28.3	21.7	21.7	21.7	
Motor & Pump P 1602 B	29.1	22.4	22.4	22.4	
Motor & Pump P 211/212	32.0	25.3	25.3	25.3	
Motor & Pump P 215/214	37.7	31.0	31.0	31.0	
Motor & Pump P 216	43.4	36.7	36.7	36.7	
Motor & Pump P 217/218	32.8	26.1	26.1	26.1	
Motor & Pump P 300	35.4	28.7	28.7	28.7	
Motor & Pump P 301	40.9	34.3	34.3	34.3	
Motor & Pump P 302	32.0	25.4	25.4	25.4	
Motor & Pump P 303	31.0	24.3	24.3	24.3	
Motor & Pump P 305	31.8	25.2	25.2	25.2	
Motor & Pump P 306	44.8	38.1	38.1	38.1	
Motor & Pump P 307	37.9	31.3	31.3	31.3	
Motor & Pump P 309	31.6	24.9	24.9	24.9	
Motor & Pump P 312	46.1	39.4	39.4	39.4	
Motor & Pump P 313	48.1	41.4	41.4	41.4	
Motor & Pump P 315	46.6	40.0	40.0	40.0	
Motor & Pump P 316	47.0	40.3	40.3	40.3	
Motor & Pump P 317	47.0	40.3	40.3	40.3	
Motor & Pump P 318	44.3	37.6	37.6	37.6	
Motor & Pump P 319	44.8	38.1	38.1	38.1	
Motor & Pump P 327	40.4	33.8	33.8	33.8	
Motor & Pump P 328	43.5	36.8	36.8	36.8	
Motor & Pump P 329	43.0	36.3	36.3	36.3	
Motor & Pump P 451	40.6	33.9	33.9	33.9	
Motor & Pump P 453	43.9	37.2	37.2	37.2	
Motor & Pump P 454	39.0	32.3	32.3	32.3	
Motor & Pump P 457	43.9	37.2	37.2	37.2	
Motor & Pump P 458	43.4	36.7	36.7	36.7	
Motor & Pump P 459	40.3	33.6	33.6	33.6	
Motor & Pump P 56A/B	42.2	35.6	35.6	35.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P602 100 HP	48.5	41.8	41.8	41.8	
P603 60 HP	49.8	43.2	43.2	43.2	
P605 40 HP	49.7	43.1	43.1	43.1	
P607 15 HP	44.9	38.3	38.3	38.3	
P608 15 HP	44.8	38.1	38.1	38.1	
P611 15 HP	45.1	38.4	38.4	38.4	
P614/615 20 HP	35.0	28.3	28.3	28.3	
Rail Cars Bumping 6 times in during delivery	44.8	47.8			
Scanner Blower C-084A/B	41.4	34.8	34.8	34.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	16.4	9.7	9.7	9.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	16.4	9.7	9.7	9.7	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	20.5	13.8	13.8	13.8	
Solar Turbine T70 2nd Boiler-2nd Boiler South	21.3	14.6	14.6	14.6	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	20.2	13.6	13.6	13.6	
Solar Turbine T70 Boiler-Boiler East 1	27.3	20.7	20.7	20.7	
Solar Turbine T70 Boiler-Boiler East 2	23.3	16.6	16.6	16.6	
Solar Turbine T70 Boiler-Boiler North 1	34.0	27.3	27.3	27.3	
Solar Turbine T70 Boiler-Boiler North 2	25.6	18.9	18.9	18.9	
Solar Turbine T70 Boiler-Boiler Roof	35.6	29.0	29.0	29.0	
Solar Turbine T70 Boiler-Boiler South	37.7	31.0	31.0	31.0	
Solar Turbine T70 Boiler-Boiler South 2	29.0	22.3	22.3	22.3	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	37.6	30.9	30.9	30.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	48.9	42.2	42.2	42.2	
Solar Turbine T70 Enclosure-T70 Encl. Roof	50.2	43.6	43.6	43.6	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	48.8	42.1	42.1	42.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	37.3	30.6	30.6	30.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	40.0	33.3	33.3	33.3	
Solar Turbine T70 SCR-SCR Unit Roof	28.2	21.5	21.5	21.5	
Solar Turbine T70 SCR-SCR Unit NE	15.8	9.2	9.2	9.2	
Solar Turbine T70 SCR-SCR Unit North	22.9	16.3	16.3	16.3	
Solar Turbine T70 SCR-SCR Unit NW	17.9	11.2	11.2	11.2	
Solar Turbine T70 SCR-SCR Unit SE	21.5	14.9	14.9	14.9	
Solar Turbine T70 SCR-SCR Unit South	26.8	20.2	20.2	20.2	
Solar Turbine T70 SCR-SCR Unit SW	21.9	15.2	15.2	15.2	
xxxx xxxx xxxx xxxx	44.4	42.9	41.2	35.3	
xxxx xxxx xxxx xxxx	44.2	42.7	41.0	35.1	
Tank Farm Pump 1	43.1	36.4	36.4	36.4	
Tank Farm Pump 2	37.1	30.5	30.5	30.5	
Tank Farm Pump 3	30.7	24.0	24.0	24.0	
UP Train Locomotive Delivery and Pickup	38.4	41.4			
Vaporizer Blower 1	33.3	26.6	26.6	26.6	
Vaporizer Blower 2	33.2	26.5	26.5	26.5	
Vaporizer Inlet Silencer	19.6	12.9	12.9	12.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Vaporizer Motor 1	28.1	21.4	21.4	21.4	
Vaporizer Motor 2	28.0	21.3	21.3	21.3	
Water Treatment Pumps P-056A&B	35.3	28.6	28.6	28.6	
XF-1502 Splitter Area 1	44.6	37.9	37.9	37.9	
XF-1502 Splitter Area 2	43.6	36.9	36.9	36.9	
XF-1504 Splitter Area 1	46.3	39.6	39.6	39.6	
XF-1504 Splitter Area 2	48.3	41.6	41.6	41.6	
XF - 1601	42.6	35.9	35.9	35.9	
XF - 1602	42.7	36.0	36.0	36.0	
XF 304, XF 321	51.8	45.2	45.2	45.2	
XF 313, XF 314	50.0	43.3	43.3	43.3	
XF 335-1, XF 335-2	52.7	46.0	46.0	46.0	
XF 503	52.3	45.6	45.6	45.6	
XF Module 1510	51.9	45.2	45.2	45.2	
XF Module 1519	52.3	45.6	45.6	45.6	
Receiver SS-5 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.1 dB(A) Ld 7-19 dB(A) Leq,N 64.8 dB(A) Le 19-					
2.8-Open Intake	47.3	40.6	40.6	40.6	
2011 Track Mobile switch moving rail cars 33 cars per day	47.5	50.5			
Air Compressor C 1	56.3	49.7	49.7	49.7	
Air Compressor Pump, Motor Fan CMXF -055	42.7	36.0	36.0	36.0	
Asphalt Production	66.8	60.1	60.1	60.1	
BFW Pumps P-073A&B	39.0	32.3	32.3	32.3	
Blower F 401	53.8	47.1	47.1	47.1	
Boiler Crude Unit-Heater Opening	47.2	40.5	40.5	40.5	
Brine Transfer P-085	36.0	29.4	29.4	29.4	
Burner H301 North	26.8	20.2	20.2	20.2	
Burner H301 South	38.4	31.7	31.7	31.7	
Burner H302 North	28.3	21.7	21.7	21.7	
Burner H302 South	37.5	30.8	30.8	30.8	
Burner H303 North	34.5	27.8	27.8	27.8	
Burner H303 South	38.0	31.4	31.4	31.4	
Burner H304 North	30.3	23.6	23.6	23.6	
Burner H304 South	36.5	29.8	29.8	29.8	
Burner H305 North	35.1	28.5	28.5	28.5	
Burner H305 South	31.1	24.4	24.4	24.4	
Burner H306 North	31.7	25.0	25.0	25.0	
Burner H306 South	36.2	29.6	29.6	29.6	
Compressor House C301, C302, C 124-Comp House East 1	46.9	40.2	40.2	40.2	
Compressor House C301, C302, C 124-Comp House East 2	44.9	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	42.9	36.2	36.2	36.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	49.6	43.0	43.0	43.0	
Compressor House C301, C302, C 124-Comp House South 2	44.9	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House West	26.1	19.5	19.5	19.5	
Cooling Tower CT 510-CT 510 East Side	50.1	43.4	43.4	43.4	
Cooling Tower CT 510-CT 510 West Side	25.5	18.9	18.9	18.9	
Cooling Tower CT 511-CT 511 East Side	55.7	49.0	49.0	49.0	
Cooling Tower CT 511-CT 511 West Side	36.8	30.2	30.2	30.2	
Cooling Tower M 512	48.8	42.2	42.2	42.2	
Cooling Tower M 513	46.5	39.8	39.8	39.8	
Cooling Tower M 514	48.9	42.2	42.2	42.2	
Crude Plant Operation 80 dB/m^2 at 1 m	60.7	54.1	54.1	54.1	
xxxx xxxx xxxx xxxx	24.9	18.2	18.2	18.2	
xxxx xxxx xxxx xxxx	35.1	28.4	28.4	28.4	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	61.0	54.3	54.3	54.3	
xxxx xxxx xxxx xxxx	47.2	40.3	42.7	40.3	
CT Y-600-CT Y-600 North	38.1	31.4	31.4	31.4	
CT Y-600-CT Y-600 South	55.0	48.3	48.3	48.3	
Deaerator Skid P-058A&B	49.8	43.1	43.1	43.1	
xxxx xxxx xxxx xxxx	30.8	29.3	27.6	21.6	
xxxx xxxx xxxx xxxx	30.7	29.1	27.4	21.5	
Exhaust Stack	55.1	48.4	48.4	48.4	
F.G. After Cooler XF-083ABC	46.8	40.1	40.1	40.1	
Fan Y-600	54.0	47.3	47.3	47.3	
FG Compressor Enclosure-FG Enclosure Roof	34.4	27.7	27.7	27.7	
FG Compressor Enclosure-FG Enclosure East	28.8	22.2	22.2	22.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	14.6	8.0	8.0	8.0	
FG Compressor Enclosure-FG Enclosure North	29.1	22.4	22.4	22.4	
FG Compressor Enclosure-FG Enclosure South	29.1	22.5	22.5	22.5	
FG Compressor Enclosure-FG Enclosure West	32.6	25.9	25.9	25.9	
FG Compressor Enclosure-FG Enclosure West Louver 3	23.0	16.4	16.4	16.4	
Fin Fan XF 616 - Above	36.1	29.4	29.4	29.4	
Fin Fan XF 616 - Below	55.6	48.9	48.9	48.9	
Fin Fan XF 617 - Above	32.6	25.9	25.9	25.9	
Fin Fan XF 617 - Below	51.1	44.4	44.4	44.4	
Heater # 5-Heater	47.2	40.5	40.5	40.5	
Heater # 5-Heater	47.4	40.7	40.7	40.7	
Heater # 5-Heater	47.6	41.0	41.0	41.0	
Heater H 601	43.7	37.0	37.0	37.0	
Hydro Heater H-402	48.3	41.6	41.6	41.6	
ID Fan	44.9	38.2	38.2	38.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan 200 HP Motor	29.5	22.8	22.8	22.8	
Incinirator Compressor & Motor	39.1	32.4	32.4	32.4	
Incinirator Fin Fan	41.4	34.7	34.7	34.7	
xxxx xxxx xxxx xxxx	29.5	28.0	26.3	20.4	
xxxx xxxx xxxx xxxx	29.6	28.1	26.4	20.5	
Lub Oil Cooler XF-061	46.9	40.2	40.2	40.2	
Misc pumps motors	40.9	34.2	34.2	34.2	
Motor & Pump P - 1502 Splitter Reflux Pu	32.1	25.4	25.4	25.4	
Motor & Pump P - 1503 Splitter Bottoms P	34.3	27.6	27.6	27.6	
Motor & Pump P - 1504 Splitter Bottoms P	34.6	27.9	27.9	27.9	
Motor & Pump P - 1507 Reactor Pump	30.9	24.3	24.3	24.3	
Motor & Pump P - 1508 Reactor Pump	32.3	25.6	25.6	25.6	
Motor & Pump P - 1511 Stabilizer Reflux	32.8	26.1	26.1	26.1	
Motor & Pump P - 1512 Stabilizer Reflux	40.6	33.9	33.9	33.9	
Motor & Pump P - 1513 Caustic Circulatin	31.1	24.4	24.4	24.4	
Motor & Pump P - 1514 Caustic Circulatin	41.4	34.7	34.7	34.7	
Motor & Pump P 120/121	28.4	21.7	21.7	21.7	
Motor & Pump P 1505 FRESH FEED PUMPS	26.6	19.9	19.9	19.9	
Motor & Pump P 1506 FRESH FEED PUMPS	31.0	24.3	24.3	24.3	
Motor & Pump P 1509 Chloride Injection P	37.6	30.9	30.9	30.9	
Motor & Pump P 1510 Chloride Injection P	36.5	29.8	29.8	29.8	
Motor & Pump P 1601 A	28.0	21.3	21.3	21.3	
Motor & Pump P 1601 B	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 A	28.2	21.6	21.6	21.6	
Motor & Pump P 1602 B	29.0	22.3	22.3	22.3	
Motor & Pump P 211/212	32.5	25.8	25.8	25.8	
Motor & Pump P 215/214	38.2	31.5	31.5	31.5	
Motor & Pump P 216	43.6	36.9	36.9	36.9	
Motor & Pump P 217/218	33.4	26.7	26.7	26.7	
Motor & Pump P 300	35.4	28.7	28.7	28.7	
Motor & Pump P 301	40.8	34.1	34.1	34.1	
Motor & Pump P 302	32.3	25.6	25.6	25.6	
Motor & Pump P 303	31.6	25.0	25.0	25.0	
Motor & Pump P 305	32.5	25.8	25.8	25.8	
Motor & Pump P 306	45.8	39.1	39.1	39.1	
Motor & Pump P 307	34.8	28.1	28.1	28.1	
Motor & Pump P 309	32.3	25.6	25.6	25.6	
Motor & Pump P 312	46.6	39.9	39.9	39.9	
Motor & Pump P 313	48.4	41.7	41.7	41.7	
Motor & Pump P 315	47.9	41.2	41.2	41.2	
Motor & Pump P 316	48.3	41.6	41.6	41.6	
Motor & Pump P 317	48.2	41.5	41.5	41.5	
Motor & Pump P 318	45.4	38.8	38.8	38.8	
Motor & Pump P 319	45.5	38.8	38.8	38.8	
Motor & Pump P 327	40.6	34.0	34.0	34.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 328	44.1	37.5	37.5	37.5	
Motor & Pump P 329	43.5	36.8	36.8	36.8	
Motor & Pump P 451	40.3	33.6	33.6	33.6	
Motor & Pump P 453	43.8	37.2	37.2	37.2	
Motor & Pump P 454	38.8	32.1	32.1	32.1	
Motor & Pump P 457	43.9	37.2	37.2	37.2	
Motor & Pump P 458	43.4	36.7	36.7	36.7	
Motor & Pump P 459	40.0	33.4	33.4	33.4	
Motor & Pump P 56A/B	42.3	35.7	35.7	35.7	
P602 100 HP	49.0	42.3	42.3	42.3	
P603 60 HP	50.1	43.4	43.4	43.4	
P605 40 HP	50.0	43.3	43.3	43.3	
P607 15 HP	45.1	38.4	38.4	38.4	
P608 15 HP	44.9	38.3	38.3	38.3	
P611 15 HP	45.3	38.7	38.7	38.7	
P614/615 20 HP	35.7	29.1	29.1	29.1	
Rail Cars Bumping 6 times in during delivery	45.7	48.7			
Scanner Blower C-084A/B	42.9	36.2	36.2	36.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	17.5	10.8	10.8	10.8	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	17.2	10.6	10.6	10.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	21.3	14.6	14.6	14.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	21.9	15.2	15.2	15.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	21.0	14.4	14.4	14.4	
Solar Turbine T70 Boiler-Boiler East 1	28.7	22.0	22.0	22.0	
Solar Turbine T70 Boiler-Boiler East 2	25.3	18.6	18.6	18.6	
Solar Turbine T70 Boiler-Boiler North 1	36.1	29.4	29.4	29.4	
Solar Turbine T70 Boiler-Boiler North 2	27.7	21.0	21.0	21.0	
Solar Turbine T70 Boiler-Boiler Roof	36.1	29.4	29.4	29.4	
Solar Turbine T70 Boiler-Boiler South	38.6	31.9	31.9	31.9	
Solar Turbine T70 Boiler-Boiler South 2	29.9	23.2	23.2	23.2	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	38.7	32.0	32.0	32.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	49.9	43.2	43.2	43.2	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.4	44.8	44.8	44.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	50.2	43.5	43.5	43.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	40.2	33.5	33.5	33.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	41.6	34.9	34.9	34.9	
Solar Turbine T70 SCR-SCR Unit Roof	28.7	22.1	22.1	22.1	
Solar Turbine T70 SCR-SCR Unit NE	17.6	11.0	11.0	11.0	
Solar Turbine T70 SCR-SCR Unit North	25.0	18.3	18.3	18.3	
Solar Turbine T70 SCR-SCR Unit NW	19.8	13.1	13.1	13.1	
Solar Turbine T70 SCR-SCR Unit SE	22.5	15.8	15.8	15.8	
Solar Turbine T70 SCR-SCR Unit South	27.7	21.0	21.0	21.0	
Solar Turbine T70 SCR-SCR Unit SW	22.7	16.1	16.1	16.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	45.8	44.3	42.6	36.7	
xxxx xxxx xxxx xxxx	45.7	44.2	42.5	36.6	
Tank Farm Pump 1	43.2	36.5	36.5	36.5	
Tank Farm Pump 2	39.3	32.7	32.7	32.7	
Tank Farm Pump 3	30.5	23.9	23.9	23.9	
UP Train Locomotive Delivery and Pickup	38.6	41.6			
Vaporizer Blower 1	36.6	29.9	29.9	29.9	
Vaporizer Blower 2	36.4	29.7	29.7	29.7	
Vaporizer Inlet Silencer	21.7	15.1	15.1	15.1	
Vaporizer Motor 1	31.4	24.7	24.7	24.7	
Vaporizer Motor 2	31.2	24.6	24.6	24.6	
Water Treatment Pumps P-056A&B	35.8	29.1	29.1	29.1	
XF-1502 Splitter Area 1	45.5	38.8	38.8	38.8	
XF-1502 Splitter Area 2	44.5	37.9	37.9	37.9	
XF-1504 Splitter Area 1	48.0	41.3	41.3	41.3	
XF-1504 Splitter Area 2	49.1	42.5	42.5	42.5	
XF - 1601	44.1	37.4	37.4	37.4	
XF - 1602	44.2	37.5	37.5	37.5	
XF 304, XF 321	53.9	47.3	47.3	47.3	
XF 313, XF 314	51.4	44.7	44.7	44.7	
XF 335-1, XF 335-2	54.2	47.5	47.5	47.5	
XF 503	54.1	47.5	47.5	47.5	
XF Module 1510	52.8	46.1	46.1	46.1	
XF Module 1519	53.2	46.5	46.5	46.5	
Receiver SS-5 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.4 dB(A) Ld 7-19 dB(A) Leq,N 65.1 dB(A) Le 19-					
2.8-Open Intake	47.3	40.6	40.6	40.6	
2011 Track Mobile switch moving rail cars 33 cars per day	47.6	50.6			
Air Compressor C 1	55.8	49.2	49.2	49.2	
Air Compressor Pump, Motor Fan CMXF -055	44.3	37.6	37.6	37.6	
Asphalt Production	66.9	60.3	60.3	60.3	
BFW Pumps P-073A&B	39.9	33.2	33.2	33.2	
Blower F 401	54.5	47.8	47.8	47.8	
Boiler Crude Unit-Heater Opening	47.3	40.6	40.6	40.6	
Brine Transfer P-085	36.1	29.4	29.4	29.4	
Burner H301 North	27.8	21.2	21.2	21.2	
Burner H301 South	38.3	31.7	31.7	31.7	
Burner H302 North	28.0	21.4	21.4	21.4	
Burner H302 South	38.0	31.3	31.3	31.3	
Burner H303 North	35.9	29.2	29.2	29.2	
Burner H303 South	40.3	33.6	33.6	33.6	
Burner H304 North	30.4	23.8	23.8	23.8	
Burner H304 South	38.2	31.5	31.5	31.5	
Burner H305 North	35.4	28.7	28.7	28.7	
Burner H305 South	31.9	25.2	25.2	25.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H306 North	31.7	25.0	25.0	25.0	
Burner H306 South	37.4	30.7	30.7	30.7	
Compressor House C301, C302, C 124-Comp House East 1	47.8	41.1	41.1	41.1	
Compressor House C301, C302, C 124-Comp House East 2	45.4	38.7	38.7	38.7	
Compressor House C301, C302, C 124-Comp House North	43.2	36.5	36.5	36.5	
Compressor House C301, C302, C 124-Comp House South 1	50.1	43.4	43.4	43.4	
Compressor House C301, C302, C 124-Comp House South 2	45.6	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House West	27.7	21.0	21.0	21.0	
Cooling Tower CT 510-CT 510 East Side	50.5	43.8	43.8	43.8	
Cooling Tower CT 510-CT 510 West Side	26.0	19.3	19.3	19.3	
Cooling Tower CT 511-CT 511 East Side	55.9	49.2	49.2	49.2	
Cooling Tower CT 511-CT 511 West Side	38.1	31.4	31.4	31.4	
Cooling Tower M 512	48.9	42.3	42.3	42.3	
Cooling Tower M 513	46.7	40.0	40.0	40.0	
Cooling Tower M 514	49.0	42.3	42.3	42.3	
Crude Plant Operation 80 dB/m^2 at 1 m	61.2	54.5	54.5	54.5	
xxxx xxxx xxxx xxxx	27.0	20.3	20.3	20.3	
xxxx xxxx xxxx xxxx	36.4	29.7	29.7	29.7	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	61.6	54.9	54.9	54.9	
xxxx xxxx xxxx xxxx	48.0	41.1	43.5	41.1	
CT Y-600-CT Y-600 North	38.7	32.0	32.0	32.0	
CT Y-600-CT Y-600 South	55.1	48.4	48.4	48.4	
Deaerator Skid P-058A&B	49.9	43.2	43.2	43.2	
xxxx xxxx xxxx xxxx	32.0	30.5	28.7	22.8	
xxxx xxxx xxxx xxxx	31.9	30.3	28.6	22.7	
Exhaust Stack	55.2	48.5	48.5	48.5	
F.G. After Cooler XF-083ABC	47.1	40.4	40.4	40.4	
Fan Y-600	54.5	47.8	47.8	47.8	
FG Compressor Enclosure-FG Enclosure Roof	34.8	28.1	28.1	28.1	
FG Compressor Enclosure-FG Enclosure East	29.7	23.0	23.0	23.0	
FG Compressor Enclosure-FG Enclosure East Louver 1	15.5	8.9	8.9	8.9	
FG Compressor Enclosure-FG Enclosure North	29.5	22.8	22.8	22.8	
FG Compressor Enclosure-FG Enclosure South	29.7	23.0	23.0	23.0	
FG Compressor Enclosure-FG Enclosure West	32.8	26.1	26.1	26.1	
FG Compressor Enclosure-FG Enclosure West Louver 3	23.1	16.4	16.4	16.4	
Fin Fan XF 616 - Above	37.3	30.7	30.7	30.7	
Fin Fan XF 616 - Below	55.0	48.4	48.4	48.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Fin Fan XF 617 - Above	33.8	27.1	27.1	27.1	
Fin Fan XF 617 - Below	50.6	43.9	43.9	43.9	
Heater # 5-Heater	47.3	40.6	40.6	40.6	
Heater # 5-Heater	47.6	40.9	40.9	40.9	
Heater # 5-Heater	47.8	41.2	41.2	41.2	
Heater H 601	43.8	37.1	37.1	37.1	
Hydro Heater H-402	48.4	41.7	41.7	41.7	
ID Fan	44.8	38.1	38.1	38.1	
ID Fan 200 HP Motor	28.9	22.2	22.2	22.2	
Incinirator Compressor & Motor	40.9	34.3	34.3	34.3	
Incinirator Fin Fan	43.2	36.5	36.5	36.5	
xxxx xxxx xxxx xxxx	31.3	29.8	28.0	22.1	
xxxx xxxx xxxx xxxx	31.4	29.9	28.1	22.2	
Lub Oil Cooler XF-061	47.5	40.8	40.8	40.8	
Misc pumps motors	42.0	35.3	35.3	35.3	
Motor & Pump P - 1502 Splitter Reflux Pu	32.1	25.4	25.4	25.4	
Motor & Pump P - 1503 Splitter Bottoms P	34.3	27.7	27.7	27.7	
Motor & Pump P - 1504 Splitter Bottoms P	34.7	28.0	28.0	28.0	
Motor & Pump P - 1507 Reactor Pump	31.0	24.4	24.4	24.4	
Motor & Pump P - 1508 Reactor Pump	32.3	25.7	25.7	25.7	
Motor & Pump P - 1511 Stabilizer Reflux	33.8	27.1	27.1	27.1	
Motor & Pump P - 1512 Stabilizer Reflux	41.8	35.1	35.1	35.1	
Motor & Pump P - 1513 Caustic Circulatin	35.0	28.3	28.3	28.3	
Motor & Pump P - 1514 Caustic Circulatin	39.8	33.1	33.1	33.1	
Motor & Pump P 120/121	28.6	21.9	21.9	21.9	
Motor & Pump P 1505 FRESH FEED PUMPS	26.4	19.8	19.8	19.8	
Motor & Pump P 1506 FRESH FEED PUMPS	31.0	24.3	24.3	24.3	
Motor & Pump P 1509 Chloride Injection P	39.3	32.6	32.6	32.6	
Motor & Pump P 1510 Chloride Injection P	38.1	31.5	31.5	31.5	
Motor & Pump P 1601 A	30.3	23.6	23.6	23.6	
Motor & Pump P 1601 B	30.3	23.7	23.7	23.7	
Motor & Pump P 1602 A	30.4	23.7	23.7	23.7	
Motor & Pump P 1602 B	31.0	24.3	24.3	24.3	
Motor & Pump P 211/212	34.8	28.1	28.1	28.1	
Motor & Pump P 215/214	38.6	31.9	31.9	31.9	
Motor & Pump P 216	43.7	37.1	37.1	37.1	
Motor & Pump P 217/218	34.9	28.3	28.3	28.3	
Motor & Pump P 300	35.0	28.4	28.4	28.4	
Motor & Pump P 301	40.2	33.5	33.5	33.5	
Motor & Pump P 302	32.6	25.9	25.9	25.9	
Motor & Pump P 303	32.6	25.9	25.9	25.9	
Motor & Pump P 305	33.2	26.6	26.6	26.6	
Motor & Pump P 306	45.0	38.4	38.4	38.4	
Motor & Pump P 307	34.3	27.7	27.7	27.7	
Motor & Pump P 309	33.0	26.4	26.4	26.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 312	46.3	39.7	39.7	39.7	
Motor & Pump P 313	48.1	41.4	41.4	41.4	
Motor & Pump P 315	47.6	41.0	41.0	41.0	
Motor & Pump P 316	48.1	41.4	41.4	41.4	
Motor & Pump P 317	48.0	41.4	41.4	41.4	
Motor & Pump P 318	45.0	38.3	38.3	38.3	
Motor & Pump P 319	45.2	38.5	38.5	38.5	
Motor & Pump P 327	40.3	33.6	33.6	33.6	
Motor & Pump P 328	44.6	37.9	37.9	37.9	
Motor & Pump P 329	43.0	36.3	36.3	36.3	
Motor & Pump P 451	40.4	33.8	33.8	33.8	
Motor & Pump P 453	44.0	37.3	37.3	37.3	
Motor & Pump P 454	39.0	32.3	32.3	32.3	
Motor & Pump P 457	44.0	37.4	37.4	37.4	
Motor & Pump P 458	43.5	36.8	36.8	36.8	
Motor & Pump P 459	40.2	33.5	33.5	33.5	
Motor & Pump P 56A/B	42.4	35.7	35.7	35.7	
P602 100 HP	49.0	42.4	42.4	42.4	
P603 60 HP	50.1	43.4	43.4	43.4	
P605 40 HP	50.0	43.3	43.3	43.3	
P607 15 HP	45.1	38.4	38.4	38.4	
P608 15 HP	44.9	38.3	38.3	38.3	
P611 15 HP	45.3	38.6	38.6	38.6	
P614/615 20 HP	37.3	30.6	30.6	30.6	
Rail Cars Bumping 6 times in during delivery	45.8	48.8			
Scanner Blower C-084A/B	43.7	37.0	37.0	37.0	
Solar Turbine T70 2nd Boiler-2nd Boiler North	17.9	11.2	11.2	11.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	17.5	10.9	10.9	10.9	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	21.6	14.9	14.9	14.9	
Solar Turbine T70 2nd Boiler-2nd Boiler South	22.3	15.7	15.7	15.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	21.5	14.8	14.8	14.8	
Solar Turbine T70 Boiler-Boiler East 1	29.3	22.6	22.6	22.6	
Solar Turbine T70 Boiler-Boiler East 2	25.7	19.0	19.0	19.0	
Solar Turbine T70 Boiler-Boiler North 1	36.3	29.7	29.7	29.7	
Solar Turbine T70 Boiler-Boiler North 2	28.1	21.5	21.5	21.5	
Solar Turbine T70 Boiler-Boiler Roof	36.2	29.6	29.6	29.6	
Solar Turbine T70 Boiler-Boiler South	39.0	32.3	32.3	32.3	
Solar Turbine T70 Boiler-Boiler South 2	30.3	23.6	23.6	23.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	39.5	32.8	32.8	32.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	50.2	43.5	43.5	43.5	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.8	45.2	45.2	45.2	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	51.0	44.3	44.3	44.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	40.8	34.1	34.1	34.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	42.3	35.6	35.6	35.6	
Solar Turbine T70 SCR-SCR Unit Roof	28.9	22.2	22.2	22.2	
Solar Turbine T70 SCR-SCR Unit NE	17.9	11.2	11.2	11.2	
Solar Turbine T70 SCR-SCR Unit North	25.2	18.6	18.6	18.6	
Solar Turbine T70 SCR-SCR Unit NW	20.1	13.4	13.4	13.4	
Solar Turbine T70 SCR-SCR Unit SE	22.8	16.1	16.1	16.1	
Solar Turbine T70 SCR-SCR Unit South	28.0	21.4	21.4	21.4	
Solar Turbine T70 SCR-SCR Unit SW	23.0	16.3	16.3	16.3	
xxxx xxxx xxxx xxxx	46.7	45.2	43.5	37.6	
xxxx xxxx xxxx xxxx	46.5	45.0	43.3	37.4	
Tank Farm Pump 1	43.8	37.2	37.2	37.2	
Tank Farm Pump 2	41.5	34.8	34.8	34.8	
Tank Farm Pump 3	30.1	23.5	23.5	23.5	
UP Train Locomotive Delivery and Pickup	38.8	41.8			
Vaporizer Blower 1	37.5	30.8	30.8	30.8	
Vaporizer Blower 2	37.3	30.6	30.6	30.6	
Vaporizer Inlet Silencer	22.0	15.3	15.3	15.3	
Vaporizer Motor 1	32.4	25.8	25.8	25.8	
Vaporizer Motor 2	32.1	25.5	25.5	25.5	
Water Treatment Pumps P-056A&B	36.4	29.7	29.7	29.7	
XF-1502 Splitter Area 1	45.7	39.0	39.0	39.0	
XF-1502 Splitter Area 2	44.8	38.1	38.1	38.1	
XF-1504 Splitter Area 1	48.6	42.0	42.0	42.0	
XF-1504 Splitter Area 2	49.4	42.7	42.7	42.7	
XF - 1601	44.4	37.7	37.7	37.7	
XF - 1602	44.5	37.8	37.8	37.8	
XF 304, XF 321	54.5	47.8	47.8	47.8	
XF 313, XF 314	51.8	45.1	45.1	45.1	
XF 335-1, XF 335-2	54.9	48.2	48.2	48.2	
XF 503	55.0	48.4	48.4	48.4	
XF Module 1510	53.0	46.4	46.4	46.4	
XF Module 1519	53.4	46.7	46.7	46.7	
Receiver SS-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.4 dB(A) Ld 7-19 dB(A) Leq,N 64.1 dB(A) Le 19-2					
2.8-Open Intake	46.5	39.9	39.9	39.9	
2011 Track Mobile switch moving rail cars 33 cars per day	46.4	49.4			
Air Compressor C 1	51.8	45.1	45.1	45.1	
Air Compressor Pump, Motor Fan CMXF -055	41.2	34.5	34.5	34.5	
Asphalt Production	65.3	58.6	58.6	58.6	
BFW Pumps P-073A&B	37.5	30.8	30.8	30.8	
Blower F 401	51.2	44.5	44.5	44.5	
Boiler Crude Unit-Heater Opening	44.1	37.5	37.5	37.5	
Brine Transfer P-085	37.8	31.1	31.1	31.1	
Burner H301 North	28.1	21.4	21.4	21.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H301 South	38.4	31.7	31.7	31.7	
Burner H302 North	25.1	18.4	18.4	18.4	
Burner H302 South	34.8	28.2	28.2	28.2	
Burner H303 North	33.3	26.6	26.6	26.6	
Burner H303 South	36.2	29.6	29.6	29.6	
Burner H304 North	30.5	23.8	23.8	23.8	
Burner H304 South	34.9	28.2	28.2	28.2	
Burner H305 North	33.8	27.1	27.1	27.1	
Burner H305 South	31.2	24.6	24.6	24.6	
Burner H306 North	26.2	19.6	19.6	19.6	
Burner H306 South	36.4	29.8	29.8	29.8	
Compressor House C301, C302, C 124-Comp House East 1	45.0	38.4	38.4	38.4	
Compressor House C301, C302, C 124-Comp House East 2	44.2	37.6	37.6	37.6	
Compressor House C301, C302, C 124-Comp House North	40.7	34.1	34.1	34.1	
Compressor House C301, C302, C 124-Comp House South 1	48.0	41.3	41.3	41.3	
Compressor House C301, C302, C 124-Comp House South 2	43.9	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House West	24.2	17.5	17.5	17.5	
Cooling Tower CT 510-CT 510 East Side	47.5	40.8	40.8	40.8	
Cooling Tower CT 510-CT 510 West Side	24.1	17.4	17.4	17.4	
Cooling Tower CT 511-CT 511 East Side	52.6	46.0	46.0	46.0	
Cooling Tower CT 511-CT 511 West Side	33.5	26.8	26.8	26.8	
Cooling Tower M 512	46.1	39.4	39.4	39.4	
Cooling Tower M 513	46.1	39.4	39.4	39.4	
Cooling Tower M 514	45.6	39.0	39.0	39.0	
Crude Plant Operation 80 dB/m^2 at 1 m	62.4	55.7	55.7	55.7	
xxxx xxxx xxxx xxxx	23.2	16.6	16.6	16.6	
xxxx xxxx xxxx xxxx	34.8	28.2	28.2	28.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	61.9	55.2	55.2	55.2	
xxxx xxxx xxxx xxxx	47.9	41.0	43.4	41.0	
CT Y-600-CT Y-600 North	39.7	33.0	33.0	33.0	
CT Y-600-CT Y-600 South	56.3	49.6	49.6	49.6	
Deaerator Skid P-058A&B	48.3	41.6	41.6	41.6	
xxxx xxxx xxxx xxxx	28.4	26.8	25.1	19.2	
xxxx xxxx xxxx xxxx	28.3	26.7	25.0	19.1	
Exhaust Stack	52.9	46.2	46.2	46.2	
F.G. After Cooler XF-083ABC	45.6	38.9	38.9	38.9	
Fan Y-600	53.8	47.1	47.1	47.1	
FG Compressor Enclosure-FG Enclosure Roof	30.8	24.2	24.2	24.2	
FG Compressor Enclosure-FG Enclosure East	30.0	23.3	23.3	23.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FG Compressor Enclosure-FG Enclosure East Louver 1	11.4	4.8	4.8	4.8	
FG Compressor Enclosure-FG Enclosure North	28.3	21.6	21.6	21.6	
FG Compressor Enclosure-FG Enclosure South	26.9	20.3	20.3	20.3	
FG Compressor Enclosure-FG Enclosure West	31.9	25.2	25.2	25.2	
FG Compressor Enclosure-FG Enclosure West Louver 3	24.2	17.5	17.5	17.5	
Fin Fan XF 616 - Above	34.8	28.2	28.2	28.2	
Fin Fan XF 616 - Below	57.0	50.4	50.4	50.4	
Fin Fan XF 617 - Above	31.1	24.4	24.4	24.4	
Fin Fan XF 617 - Below	52.1	45.5	45.5	45.5	
Heater # 5-Heater	47.1	40.4	40.4	40.4	
Heater # 5-Heater	47.3	40.6	40.6	40.6	
Heater # 5-Heater	47.6	40.9	40.9	40.9	
Heater H 601	42.4	35.8	35.8	35.8	
Hydro Heater H-402	44.4	37.7	37.7	37.7	
ID Fan	41.7	35.1	35.1	35.1	
ID Fan 200 HP Motor	26.4	19.8	19.8	19.8	
Incinirator Compressor & Motor	38.5	31.8	31.8	31.8	
Incinirator Fin Fan	41.0	34.4	34.4	34.4	
xxxx xxxx xxxx xxxx	29.1	27.6	25.9	20.0	
xxxx xxxx xxxx xxxx	29.2	27.7	26.0	20.1	
Lub Oil Cooler XF-061	44.9	38.2	38.2	38.2	
Misc pumps motors	39.0	32.4	32.4	32.4	
Motor & Pump P - 1502 Splitter Reflux Pu	29.7	23.0	23.0	23.0	
Motor & Pump P - 1503 Splitter Bottoms P	33.3	26.7	26.7	26.7	
Motor & Pump P - 1504 Splitter Bottoms P	33.0	26.3	26.3	26.3	
Motor & Pump P - 1507 Reactor Pump	33.5	26.8	26.8	26.8	
Motor & Pump P - 1508 Reactor Pump	33.1	26.5	26.5	26.5	
Motor & Pump P - 1511 Stabilizer Reflux	34.9	28.2	28.2	28.2	
Motor & Pump P - 1512 Stabilizer Reflux	30.8	24.1	24.1	24.1	
Motor & Pump P - 1513 Caustic Circulatin	39.3	32.6	32.6	32.6	
Motor & Pump P - 1514 Caustic Circulatin	40.9	34.2	34.2	34.2	
Motor & Pump P 120/121	25.5	18.9	18.9	18.9	
Motor & Pump P 1505 FRESH FEED PUMPS	27.8	21.2	21.2	21.2	
Motor & Pump P 1506 FRESH FEED PUMPS	34.0	27.3	27.3	27.3	
Motor & Pump P 1509 Chloride Injection P	36.4	29.7	29.7	29.7	
Motor & Pump P 1510 Chloride Injection P	36.2	29.5	29.5	29.5	
Motor & Pump P 1601 A	27.5	20.8	20.8	20.8	
Motor & Pump P 1601 B	27.8	21.1	21.1	21.1	
Motor & Pump P 1602 A	28.1	21.5	21.5	21.5	
Motor & Pump P 1602 B	29.2	22.5	22.5	22.5	
Motor & Pump P 211/212	31.8	25.1	25.1	25.1	
Motor & Pump P 215/214	38.4	31.8	31.8	31.8	
Motor & Pump P 216	40.2	33.5	33.5	33.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 217/218	33.3	26.6	26.6	26.6	
Motor & Pump P 300	28.0	21.4	21.4	21.4	
Motor & Pump P 301	32.9	26.2	26.2	26.2	
Motor & Pump P 302	29.8	23.2	23.2	23.2	
Motor & Pump P 303	30.4	23.8	23.8	23.8	
Motor & Pump P 305	31.0	24.4	24.4	24.4	
Motor & Pump P 306	43.5	36.8	36.8	36.8	
Motor & Pump P 307	33.4	26.7	26.7	26.7	
Motor & Pump P 309	30.5	23.8	23.8	23.8	
Motor & Pump P 312	45.0	38.3	38.3	38.3	
Motor & Pump P 313	47.0	40.4	40.4	40.4	
Motor & Pump P 315	46.9	40.2	40.2	40.2	
Motor & Pump P 316	48.3	41.6	41.6	41.6	
Motor & Pump P 317	47.9	41.2	41.2	41.2	
Motor & Pump P 318	44.7	38.0	38.0	38.0	
Motor & Pump P 319	44.8	38.2	38.2	38.2	
Motor & Pump P 327	40.2	33.5	33.5	33.5	
Motor & Pump P 328	42.4	35.7	35.7	35.7	
Motor & Pump P 329	41.6	34.9	34.9	34.9	
Motor & Pump P 451	39.8	33.1	33.1	33.1	
Motor & Pump P 453	42.4	35.7	35.7	35.7	
Motor & Pump P 454	39.0	32.4	32.4	32.4	
Motor & Pump P 457	42.4	35.8	35.8	35.8	
Motor & Pump P 458	41.9	35.2	35.2	35.2	
Motor & Pump P 459	40.0	33.3	33.3	33.3	
Motor & Pump P 56A/B	40.8	34.1	34.1	34.1	
P602 100 HP	49.8	43.1	43.1	43.1	
P603 60 HP	52.6	45.9	45.9	45.9	
P605 40 HP	51.0	44.3	44.3	44.3	
P607 15 HP	46.1	39.4	39.4	39.4	
P608 15 HP	45.9	39.3	39.3	39.3	
P611 15 HP	46.2	39.5	39.5	39.5	
P614/615 20 HP	45.9	39.3	39.3	39.3	
Rail Cars Bumping 6 times in during delivery	44.2	47.2			
Scanner Blower C-084A/B	40.5	33.8	33.8	33.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	15.4	8.7	8.7	8.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	15.4	8.7	8.7	8.7	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	19.2	12.6	12.6	12.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	19.6	12.9	12.9	12.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	20.4	13.8	13.8	13.8	
Solar Turbine T70 Boiler-Boiler East 1	26.9	20.3	20.3	20.3	
Solar Turbine T70 Boiler-Boiler East 2	25.3	18.7	18.7	18.7	
Solar Turbine T70 Boiler-Boiler North 1	33.9	27.2	27.2	27.2	
Solar Turbine T70 Boiler-Boiler North 2	25.9	19.3	19.3	19.3	
Solar Turbine T70 Boiler-Boiler Roof	34.8	28.1	28.1	28.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Boiler-Boiler South	36.9	30.2	30.2	30.2	
Solar Turbine T70 Boiler-Boiler South 2	28.2	21.6	21.6	21.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	45.4	38.8	38.8	38.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	48.7	42.1	42.1	42.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	49.6	42.9	42.9	42.9	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	48.0	41.4	41.4	41.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	26.6	19.9	19.9	19.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	30.7	24.0	24.0	24.0	
Solar Turbine T70 SCR-SCR Unit Roof	27.3	20.6	20.6	20.6	
Solar Turbine T70 SCR-SCR Unit NE	15.2	8.5	8.5	8.5	
Solar Turbine T70 SCR-SCR Unit North	22.4	15.7	15.7	15.7	
Solar Turbine T70 SCR-SCR Unit NW	17.0	10.3	10.3	10.3	
Solar Turbine T70 SCR-SCR Unit SE	20.5	13.9	13.9	13.9	
Solar Turbine T70 SCR-SCR Unit South	25.9	19.2	19.2	19.2	
Solar Turbine T70 SCR-SCR Unit SW	20.6	13.9	13.9	13.9	
xxxx xxxx xxxx xxxx	46.6	45.1	43.3	37.4	
xxxx xxxx xxxx xxxx	46.4	44.8	43.1	37.2	
Tank Farm Pump 1	38.9	32.3	32.3	32.3	
Tank Farm Pump 2	32.6	25.9	25.9	25.9	
Tank Farm Pump 3	30.0	23.4	23.4	23.4	
UP Train Locomotive Delivery and Pickup	36.7	39.7			
Vaporizer Blower 1	32.9	26.2	26.2	26.2	
Vaporizer Blower 2	34.0	27.4	27.4	27.4	
Vaporizer Inlet Silencer	19.5	12.8	12.8	12.8	
Vaporizer Motor 1	27.7	21.1	21.1	21.1	
Vaporizer Motor 2	28.9	22.3	22.3	22.3	
Water Treatment Pumps P-056A&B	34.4	27.7	27.7	27.7	
XF-1502 Splitter Area 1	47.2	40.5	40.5	40.5	
XF-1502 Splitter Area 2	42.5	35.9	35.9	35.9	
XF-1504 Splitter Area 1	45.6	38.9	38.9	38.9	
XF-1504 Splitter Area 2	46.2	39.5	39.5	39.5	
XF - 1601	41.7	35.0	35.0	35.0	
XF - 1602	41.8	35.2	35.2	35.2	
XF 304, XF 321	51.2	44.6	44.6	44.6	
XF 313, XF 314	50.2	43.5	43.5	43.5	
XF 335-1, XF 335-2	51.6	44.9	44.9	44.9	
XF 503	52.5	45.9	45.9	45.9	
XF Module 1510	51.0	44.3	44.3	44.3	
XF Module 1519	51.4	44.7	44.7	44.7	
Receiver SS-6 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.0 dB(A) Ld 7-19 dB(A) Leq,N 64.7 dB(A) Le 19-					
2.8-Open Intake	46.6	39.9	39.9	39.9	
2011 Track Mobile switch moving rail cars 33 cars per day	46.6	49.6			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	53.4	46.8	46.8	46.8	
Air Compressor Pump, Motor Fan CMXF -055	41.9	35.2	35.2	35.2	
Asphalt Production	65.7	59.1	59.1	59.1	
BFW Pumps P-073A&B	38.2	31.5	31.5	31.5	
Blower F 401	52.8	46.1	46.1	46.1	
Boiler Crude Unit-Heater Opening	44.4	37.7	37.7	37.7	
Brine Transfer P-085	37.9	31.2	31.2	31.2	
Burner H301 North	28.8	22.2	22.2	22.2	
Burner H301 South	39.1	32.4	32.4	32.4	
Burner H302 North	25.4	18.7	18.7	18.7	
Burner H302 South	35.6	28.9	28.9	28.9	
Burner H303 North	34.4	27.8	27.8	27.8	
Burner H303 South	37.0	30.4	30.4	30.4	
Burner H304 North	31.3	24.6	24.6	24.6	
Burner H304 South	35.9	29.2	29.2	29.2	
Burner H305 North	34.9	28.2	28.2	28.2	
Burner H305 South	31.8	25.2	25.2	25.2	
Burner H306 North	26.8	20.2	20.2	20.2	
Burner H306 South	37.1	30.4	30.4	30.4	
Compressor House C301, C302, C 124-Comp House East 1	45.9	39.2	39.2	39.2	
Compressor House C301, C302, C 124-Comp House East 2	44.9	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	41.5	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House South 1	48.9	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House South 2	44.8	38.1	38.1	38.1	
Compressor House C301, C302, C 124-Comp House West	25.0	18.3	18.3	18.3	
Cooling Tower CT 510-CT 510 East Side	48.6	41.9	41.9	41.9	
Cooling Tower CT 510-CT 510 West Side	25.2	18.6	18.6	18.6	
Cooling Tower CT 511-CT 511 East Side	53.1	46.4	46.4	46.4	
Cooling Tower CT 511-CT 511 West Side	34.6	27.9	27.9	27.9	
Cooling Tower M 512	46.7	40.0	40.0	40.0	
Cooling Tower M 513	46.6	40.0	40.0	40.0	
Cooling Tower M 514	45.3	38.6	38.6	38.6	
Crude Plant Operation 80 dB/m^2 at 1 m	62.4	55.7	55.7	55.7	
xxxx xxxx xxxx xxxx	24.8	18.2	18.2	18.2	
xxxx xxxx xxxx xxxx	35.0	28.3	28.3	28.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	62.7	56.1	56.1	56.1	
xxxx xxxx xxxx xxxx	48.9	42.0	44.4	42.0	
CT Y-600-CT Y-600 North	40.3	33.6	33.6	33.6	
CT Y-600-CT Y-600 South	56.7	50.0	50.0	50.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Deaerator Skid P-058A&B	48.8	42.2	42.2	42.2	
xxxx xxxx xxxx xxxx	29.4	27.9	26.2	20.3	
xxxx xxxx xxxx xxxx	29.3	27.8	26.1	20.2	
Exhaust Stack	54.1	47.4	47.4	47.4	
F.G. After Cooler XF-083ABC	46.3	39.7	39.7	39.7	
Fan Y-600	55.1	48.4	48.4	48.4	
FG Compressor Enclosure-FG Enclosure Roof	33.8	27.2	27.2	27.2	
FG Compressor Enclosure-FG Enclosure East	30.5	23.8	23.8	23.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	12.9	6.3	6.3	6.3	
FG Compressor Enclosure-FG Enclosure North	28.8	22.2	22.2	22.2	
FG Compressor Enclosure-FG Enclosure South	28.2	21.5	21.5	21.5	
FG Compressor Enclosure-FG Enclosure West	32.4	25.7	25.7	25.7	
FG Compressor Enclosure-FG Enclosure West Louver 3	24.4	17.8	17.8	17.8	
Fin Fan XF 616 - Above	36.9	30.2	30.2	30.2	
Fin Fan XF 616 - Below	57.1	50.5	50.5	50.5	
Fin Fan XF 617 - Above	33.1	26.4	26.4	26.4	
Fin Fan XF 617 - Below	52.3	45.7	45.7	45.7	
Heater # 5-Heater	48.3	41.6	41.6	41.6	
Heater # 5-Heater	48.6	41.9	41.9	41.9	
Heater # 5-Heater	48.9	42.2	42.2	42.2	
Heater H 601	44.1	37.4	37.4	37.4	
Hydro Heater H-402	47.1	40.4	40.4	40.4	
ID Fan	43.5	36.8	36.8	36.8	
ID Fan 200 HP Motor	26.7	20.0	20.0	20.0	
Incinirator Compressor & Motor	40.0	33.3	33.3	33.3	
Incinirator Fin Fan	42.2	35.5	35.5	35.5	
xxxx xxxx xxxx xxxx	30.7	29.2	27.5	21.6	
xxxx xxxx xxxx xxxx	30.8	29.3	27.6	21.7	
Lub Oil Cooler XF-061	45.8	39.1	39.1	39.1	
Misc pumps motors	41.5	34.8	34.8	34.8	
Motor & Pump P - 1502 Splitter Reflux Pu	32.0	25.4	25.4	25.4	
Motor & Pump P - 1503 Splitter Bottoms P	34.8	28.1	28.1	28.1	
Motor & Pump P - 1504 Splitter Bottoms P	34.0	27.3	27.3	27.3	
Motor & Pump P - 1507 Reactor Pump	35.0	28.3	28.3	28.3	
Motor & Pump P - 1508 Reactor Pump	34.8	28.2	28.2	28.2	
Motor & Pump P - 1511 Stabilizer Reflux	34.9	28.2	28.2	28.2	
Motor & Pump P - 1512 Stabilizer Reflux	31.2	24.5	24.5	24.5	
Motor & Pump P - 1513 Caustic Circulatin	39.1	32.5	32.5	32.5	
Motor & Pump P - 1514 Caustic Circulatin	41.2	34.6	34.6	34.6	
Motor & Pump P 120/121	26.1	19.4	19.4	19.4	
Motor & Pump P 1505 FRESH FEED PUMPS	28.0	21.3	21.3	21.3	
Motor & Pump P 1506 FRESH FEED PUMPS	35.0	28.4	28.4	28.4	
Motor & Pump P 1509 Chloride Injection P	36.9	30.2	30.2	30.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1510 Chloride Injection P	36.8	30.1	30.1	30.1	
Motor & Pump P 1601 A	27.6	20.9	20.9	20.9	
Motor & Pump P 1601 B	27.9	21.2	21.2	21.2	
Motor & Pump P 1602 A	28.2	21.5	21.5	21.5	
Motor & Pump P 1602 B	29.2	22.5	22.5	22.5	
Motor & Pump P 211/212	32.2	25.5	25.5	25.5	
Motor & Pump P 215/214	38.8	32.2	32.2	32.2	
Motor & Pump P 216	40.7	34.0	34.0	34.0	
Motor & Pump P 217/218	33.8	27.1	27.1	27.1	
Motor & Pump P 300	28.3	21.7	21.7	21.7	
Motor & Pump P 301	33.3	26.6	26.6	26.6	
Motor & Pump P 302	30.3	23.6	23.6	23.6	
Motor & Pump P 303	30.8	24.1	24.1	24.1	
Motor & Pump P 305	31.4	24.7	24.7	24.7	
Motor & Pump P 306	44.6	37.9	37.9	37.9	
Motor & Pump P 307	34.1	27.4	27.4	27.4	
Motor & Pump P 309	30.9	24.3	24.3	24.3	
Motor & Pump P 312	45.4	38.7	38.7	38.7	
Motor & Pump P 313	47.6	41.0	41.0	41.0	
Motor & Pump P 315	47.1	40.4	40.4	40.4	
Motor & Pump P 316	48.7	42.1	42.1	42.1	
Motor & Pump P 317	48.7	42.1	42.1	42.1	
Motor & Pump P 318	44.9	38.2	38.2	38.2	
Motor & Pump P 319	45.0	38.3	38.3	38.3	
Motor & Pump P 327	40.5	33.9	33.9	33.9	
Motor & Pump P 328	42.8	36.1	36.1	36.1	
Motor & Pump P 329	41.9	35.2	35.2	35.2	
Motor & Pump P 451	39.6	33.0	33.0	33.0	
Motor & Pump P 453	42.9	36.2	36.2	36.2	
Motor & Pump P 454	38.9	32.2	32.2	32.2	
Motor & Pump P 457	42.9	36.3	36.3	36.3	
Motor & Pump P 458	42.6	35.9	35.9	35.9	
Motor & Pump P 459	39.8	33.2	33.2	33.2	
Motor & Pump P 56A/B	41.6	35.0	35.0	35.0	
P602 100 HP	50.2	43.5	43.5	43.5	
P603 60 HP	52.8	46.1	46.1	46.1	
P605 40 HP	51.3	44.6	44.6	44.6	
P607 15 HP	46.3	39.6	39.6	39.6	
P608 15 HP	46.1	39.4	39.4	39.4	
P611 15 HP	46.5	39.8	39.8	39.8	
P614/615 20 HP	46.3	39.7	39.7	39.7	
Rail Cars Bumping 6 times in during delivery	45.0	48.0			
Scanner Blower C-084A/B	41.8	35.1	35.1	35.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	16.6	9.9	9.9	9.9	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	16.1	9.5	9.5	9.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	20.1	13.5	13.5	13.5	
Solar Turbine T70 2nd Boiler-2nd Boiler South	20.3	13.6	13.6	13.6	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	21.2	14.6	14.6	14.6	
Solar Turbine T70 Boiler-Boiler East 1	27.9	21.2	21.2	21.2	
Solar Turbine T70 Boiler-Boiler East 2	26.0	19.3	19.3	19.3	
Solar Turbine T70 Boiler-Boiler North 1	35.4	28.7	28.7	28.7	
Solar Turbine T70 Boiler-Boiler North 2	27.0	20.3	20.3	20.3	
Solar Turbine T70 Boiler-Boiler Roof	35.3	28.6	28.6	28.6	
Solar Turbine T70 Boiler-Boiler South	37.8	31.1	31.1	31.1	
Solar Turbine T70 Boiler-Boiler South 2	29.1	22.5	22.5	22.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	46.4	39.7	39.7	39.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	49.3	42.6	42.6	42.6	
Solar Turbine T70 Enclosure-T70 Encl. Roof	50.8	44.1	44.1	44.1	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	49.5	42.8	42.8	42.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	29.8	23.1	23.1	23.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	32.0	25.3	25.3	25.3	
Solar Turbine T70 SCR-SCR Unit Roof	27.9	21.3	21.3	21.3	
Solar Turbine T70 SCR-SCR Unit NE	16.8	10.2	10.2	10.2	
Solar Turbine T70 SCR-SCR Unit North	24.2	17.5	17.5	17.5	
Solar Turbine T70 SCR-SCR Unit NW	18.8	12.1	12.1	12.1	
Solar Turbine T70 SCR-SCR Unit SE	21.5	14.8	14.8	14.8	
Solar Turbine T70 SCR-SCR Unit South	26.8	20.1	20.1	20.1	
Solar Turbine T70 SCR-SCR Unit SW	21.5	14.8	14.8	14.8	
xxxx xxxx xxxx xxxx	47.9	46.4	44.7	38.7	
xxxx xxxx xxxx xxxx	47.6	46.1	44.4	38.5	
Tank Farm Pump 1	41.6	34.9	34.9	34.9	
Tank Farm Pump 2	32.4	25.7	25.7	25.7	
Tank Farm Pump 3	30.0	23.3	23.3	23.3	
UP Train Locomotive Delivery and Pickup	36.8	39.8			
Vaporizer Blower 1	36.1	29.4	29.4	29.4	
Vaporizer Blower 2	36.7	30.0	30.0	30.0	
Vaporizer Inlet Silencer	21.0	14.3	14.3	14.3	
Vaporizer Motor 1	31.0	24.3	24.3	24.3	
Vaporizer Motor 2	31.6	24.9	24.9	24.9	
Water Treatment Pumps P-056A&B	34.8	28.1	28.1	28.1	
XF-1502 Splitter Area 1	48.1	41.4	41.4	41.4	
XF-1502 Splitter Area 2	43.6	36.9	36.9	36.9	
XF-1504 Splitter Area 1	47.2	40.6	40.6	40.6	
XF-1504 Splitter Area 2	47.7	41.0	41.0	41.0	
XF - 1601	43.4	36.7	36.7	36.7	
XF - 1602	43.4	36.8	36.8	36.8	
XF 304, XF 321	51.9	45.3	45.3	45.3	
XF 313, XF 314	51.3	44.7	44.7	44.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	53.0	46.3	46.3	46.3	
XF 503	53.9	47.2	47.2	47.2	
XF Module 1510	51.9	45.3	45.3	45.3	
XF Module 1519	52.3	45.7	45.7	45.7	
Receiver SS-6 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.3 dB(A) Ld 7-19 dB(A) Leq,N 65.0 dB(A) Le 19-					
2.8-Open Intake	46.6	40.0	40.0	40.0	
2011 Track Mobile switch moving rail cars 33 cars per day	46.7	49.7			
Air Compressor C 1	54.4	47.8	47.8	47.8	
Air Compressor Pump, Motor Fan CMXF -055	43.4	36.7	36.7	36.7	
Asphalt Production	65.9	59.2	59.2	59.2	
BFW Pumps P-073A&B	38.9	32.3	32.3	32.3	
Blower F 401	53.5	46.9	46.9	46.9	
Boiler Crude Unit-Heater Opening	44.5	37.9	37.9	37.9	
Brine Transfer P-085	38.4	31.7	31.7	31.7	
Burner H301 North	29.1	22.4	22.4	22.4	
Burner H301 South	38.4	31.7	31.7	31.7	
Burner H302 North	24.9	18.3	18.3	18.3	
Burner H302 South	35.2	28.5	28.5	28.5	
Burner H303 North	35.7	29.0	29.0	29.0	
Burner H303 South	38.9	32.2	32.2	32.2	
Burner H304 North	31.8	25.1	25.1	25.1	
Burner H304 South	37.4	30.8	30.8	30.8	
Burner H305 North	35.0	28.3	28.3	28.3	
Burner H305 South	32.6	25.9	25.9	25.9	
Burner H306 North	26.5	19.8	19.8	19.8	
Burner H306 South	37.5	30.8	30.8	30.8	
Compressor House C301, C302, C 124-Comp House East 1	46.4	39.7	39.7	39.7	
Compressor House C301, C302, C 124-Comp House East 2	45.0	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	41.6	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House South 1	49.3	42.7	42.7	42.7	
Compressor House C301, C302, C 124-Comp House South 2	45.4	38.7	38.7	38.7	
Compressor House C301, C302, C 124-Comp House West	26.5	19.8	19.8	19.8	
Cooling Tower CT 510-CT 510 East Side	49.3	42.6	42.6	42.6	
Cooling Tower CT 510-CT 510 West Side	25.6	18.9	18.9	18.9	
Cooling Tower CT 511-CT 511 East Side	53.3	46.6	46.6	46.6	
Cooling Tower CT 511-CT 511 West Side	36.2	29.5	29.5	29.5	
Cooling Tower M 512	46.6	39.9	39.9	39.9	
Cooling Tower M 513	46.6	39.9	39.9	39.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	45.2	38.5	38.5	38.5	
Crude Plant Operation 80 dB/m^2 at 1 m	62.8	56.1	56.1	56.1	
xxxx xxxx xxxx xxxx	26.2	19.5	19.5	19.5	
xxxx xxxx xxxx xxxx	36.6	29.9	29.9	29.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	63.1	56.4	56.4	56.4	
xxxx xxxx xxxx xxxx	49.6	42.7	45.1	42.7	
CT Y-600-CT Y-600 North	41.3	34.7	34.7	34.7	
CT Y-600-CT Y-600 South	56.4	49.7	49.7	49.7	
Deaerator Skid P-058A&B	48.9	42.3	42.3	42.3	
xxxx xxxx xxxx xxxx	30.6	29.1	27.4	21.5	
xxxx xxxx xxxx xxxx	30.4	28.9	27.2	21.3	
Exhaust Stack	54.2	47.5	47.5	47.5	
F.G. After Cooler XF-083ABC	46.6	39.9	39.9	39.9	
Fan Y-600	55.6	49.0	49.0	49.0	
FG Compressor Enclosure-FG Enclosure Roof	34.2	27.5	27.5	27.5	
FG Compressor Enclosure-FG Enclosure East	30.8	24.1	24.1	24.1	
FG Compressor Enclosure-FG Enclosure East Louver 1	13.0	6.3	6.3	6.3	
FG Compressor Enclosure-FG Enclosure North	29.2	22.5	22.5	22.5	
FG Compressor Enclosure-FG Enclosure South	28.7	22.0	22.0	22.0	
FG Compressor Enclosure-FG Enclosure West	32.6	25.9	25.9	25.9	
FG Compressor Enclosure-FG Enclosure West Louver 3	24.4	17.8	17.8	17.8	
Fin Fan XF 616 - Above	38.1	31.4	31.4	31.4	
Fin Fan XF 616 - Below	56.3	49.6	49.6	49.6	
Fin Fan XF 617 - Above	34.4	27.8	27.8	27.8	
Fin Fan XF 617 - Below	51.8	45.1	45.1	45.1	
Heater # 5-Heater	48.4	41.7	41.7	41.7	
Heater # 5-Heater	48.7	42.0	42.0	42.0	
Heater # 5-Heater	49.0	42.3	42.3	42.3	
Heater H 601	45.0	38.3	38.3	38.3	
Hydro Heater H-402	47.6	40.9	40.9	40.9	
ID Fan	43.2	36.5	36.5	36.5	
ID Fan 200 HP Motor	26.4	19.7	19.7	19.7	
Incinirator Compressor & Motor	42.0	35.3	35.3	35.3	
Incinirator Fin Fan	44.2	37.5	37.5	37.5	
xxxx xxxx xxxx xxxx	32.3	30.8	29.1	23.1	
xxxx xxxx xxxx xxxx	32.3	30.8	29.1	23.2	
Lub Oil Cooler XF-061	46.1	39.4	39.4	39.4	
Misc pumps motors	42.3	35.6	35.6	35.6	
Motor & Pump P - 1502 Splitter Reflux Pu	31.9	25.2	25.2	25.2	
Motor & Pump P - 1503 Splitter Bottoms P	34.6	28.0	28.0	28.0	
Motor & Pump P - 1504 Splitter Bottoms P	33.8	27.1	27.1	27.1	
Motor & Pump P - 1507 Reactor Pump	34.8	28.1	28.1	28.1	
Motor & Pump P - 1508 Reactor Pump	34.7	28.0	28.0	28.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	35.2	28.5	28.5	28.5	
Motor & Pump P - 1512 Stabilizer Reflux	32.4	25.7	25.7	25.7	
Motor & Pump P - 1513 Caustic Circulatin	38.6	32.0	32.0	32.0	
Motor & Pump P - 1514 Caustic Circulatin	40.8	34.1	34.1	34.1	
Motor & Pump P 120/121	27.2	20.5	20.5	20.5	
Motor & Pump P 1505 FRESH FEED PUMPS	28.5	21.8	21.8	21.8	
Motor & Pump P 1506 FRESH FEED PUMPS	34.8	28.1	28.1	28.1	
Motor & Pump P 1509 Chloride Injection P	36.3	29.6	29.6	29.6	
Motor & Pump P 1510 Chloride Injection P	36.2	29.5	29.5	29.5	
Motor & Pump P 1601 A	29.7	23.0	23.0	23.0	
Motor & Pump P 1601 B	29.9	23.2	23.2	23.2	
Motor & Pump P 1602 A	30.1	23.4	23.4	23.4	
Motor & Pump P 1602 B	30.8	24.1	24.1	24.1	
Motor & Pump P 211/212	34.2	27.5	27.5	27.5	
Motor & Pump P 215/214	38.9	32.2	32.2	32.2	
Motor & Pump P 216	41.0	34.3	34.3	34.3	
Motor & Pump P 217/218	34.9	28.3	28.3	28.3	
Motor & Pump P 300	28.9	22.3	22.3	22.3	
Motor & Pump P 301	34.6	27.9	27.9	27.9	
Motor & Pump P 302	29.4	22.7	22.7	22.7	
Motor & Pump P 303	30.3	23.6	23.6	23.6	
Motor & Pump P 305	31.3	24.7	24.7	24.7	
Motor & Pump P 306	44.2	37.5	37.5	37.5	
Motor & Pump P 307	35.2	28.5	28.5	28.5	
Motor & Pump P 309	31.0	24.3	24.3	24.3	
Motor & Pump P 312	45.1	38.4	38.4	38.4	
Motor & Pump P 313	47.2	40.5	40.5	40.5	
Motor & Pump P 315	46.7	40.0	40.0	40.0	
Motor & Pump P 316	48.3	41.6	41.6	41.6	
Motor & Pump P 317	48.4	41.7	41.7	41.7	
Motor & Pump P 318	44.5	37.9	37.9	37.9	
Motor & Pump P 319	44.7	38.0	38.0	38.0	
Motor & Pump P 327	40.3	33.6	33.6	33.6	
Motor & Pump P 328	42.7	36.1	36.1	36.1	
Motor & Pump P 329	41.2	34.5	34.5	34.5	
Motor & Pump P 451	39.6	32.9	32.9	32.9	
Motor & Pump P 453	43.0	36.3	36.3	36.3	
Motor & Pump P 454	38.9	32.2	32.2	32.2	
Motor & Pump P 457	43.0	36.4	36.4	36.4	
Motor & Pump P 458	42.5	35.8	35.8	35.8	
Motor & Pump P 459	39.7	33.1	33.1	33.1	
Motor & Pump P 56A/B	41.6	34.9	34.9	34.9	
P602 100 HP	50.2	43.5	43.5	43.5	
P603 60 HP	52.8	46.1	46.1	46.1	
P605 40 HP	51.2	44.6	44.6	44.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P607 15 HP	46.3	39.6	39.6	39.6	
P608 15 HP	46.1	39.4	39.4	39.4	
P611 15 HP	46.5	39.8	39.8	39.8	
P614/615 20 HP	46.5	39.8	39.8	39.8	
Rail Cars Bumping 6 times in during delivery	45.2	48.3			
Scanner Blower C-084A/B	42.5	35.8	35.8	35.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	16.9	10.2	10.2	10.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	16.5	9.8	9.8	9.8	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	20.4	13.7	13.7	13.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	20.7	14.1	14.1	14.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	21.7	15.0	15.0	15.0	
Solar Turbine T70 Boiler-Boiler East 1	28.3	21.6	21.6	21.6	
Solar Turbine T70 Boiler-Boiler East 2	26.2	19.6	19.6	19.6	
Solar Turbine T70 Boiler-Boiler North 1	35.6	29.0	29.0	29.0	
Solar Turbine T70 Boiler-Boiler North 2	27.3	20.7	20.7	20.7	
Solar Turbine T70 Boiler-Boiler Roof	35.4	28.8	28.8	28.8	
Solar Turbine T70 Boiler-Boiler South	38.2	31.5	31.5	31.5	
Solar Turbine T70 Boiler-Boiler South 2	29.5	22.8	22.8	22.8	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	47.0	40.3	40.3	40.3	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	49.6	42.9	42.9	42.9	
Solar Turbine T70 Enclosure-T70 Encl. Roof	51.2	44.5	44.5	44.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	50.2	43.5	43.5	43.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	30.8	24.1	24.1	24.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	32.9	26.2	26.2	26.2	
Solar Turbine T70 SCR-SCR Unit Roof	28.1	21.4	21.4	21.4	
Solar Turbine T70 SCR-SCR Unit NE	17.1	10.4	10.4	10.4	
Solar Turbine T70 SCR-SCR Unit North	24.4	17.8	17.8	17.8	
Solar Turbine T70 SCR-SCR Unit NW	19.1	12.5	12.5	12.5	
Solar Turbine T70 SCR-SCR Unit SE	21.8	15.1	15.1	15.1	
Solar Turbine T70 SCR-SCR Unit South	27.1	20.5	20.5	20.5	
Solar Turbine T70 SCR-SCR Unit SW	21.8	15.1	15.1	15.1	
xxxx xxxx xxxx xxxx	48.7	47.2	45.5	39.6	
xxxx xxxx xxxx xxxx	48.2	46.7	45.0	39.1	
Tank Farm Pump 1	43.7	37.0	37.0	37.0	
Tank Farm Pump 2	31.8	25.2	25.2	25.2	
Tank Farm Pump 3	29.3	22.6	22.6	22.6	
UP Train Locomotive Delivery and Pickup	37.0	40.0			
Vaporizer Blower 1	37.0	30.4	30.4	30.4	
Vaporizer Blower 2	37.5	30.8	30.8	30.8	
Vaporizer Inlet Silencer	21.3	14.6	14.6	14.6	
Vaporizer Motor 1	32.0	25.3	25.3	25.3	
Vaporizer Motor 2	32.4	25.8	25.8	25.8	
Water Treatment Pumps P-056A&B	35.3	28.7	28.7	28.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 1	48.4	41.7	41.7	41.7	
XF-1502 Splitter Area 2	43.9	37.2	37.2	37.2	
XF-1504 Splitter Area 1	47.9	41.2	41.2	41.2	
XF-1504 Splitter Area 2	48.1	41.4	41.4	41.4	
XF - 1601	43.7	37.0	37.0	37.0	
XF - 1602	43.8	37.1	37.1	37.1	
XF 304, XF 321	52.6	46.0	46.0	46.0	
XF 313, XF 314	51.7	45.1	45.1	45.1	
XF 335-1, XF 335-2	53.7	47.0	47.0	47.0	
XF 503	54.5	47.8	47.8	47.8	
XF Module 1510	52.2	45.6	45.6	45.6	
XF Module 1519	52.6	45.9	45.9	45.9	
Receiver MH-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 65.9 dB(A)	Ld 7-19 dB(A)	Leq,N 65.9 dB(A)	Le 19-
2.8-Open Intake	39.3	32.6	32.6	32.6	
2011 Track Mobile switch moving rail cars 33 cars per day	33.6	36.6			
Air Compressor C 1	54.7	48.0	48.0	48.0	
Air Compressor Pump, Motor Fan CMXF -055	26.9	20.3	20.3	20.3	
Asphalt Production	41.6	35.0	35.0	35.0	
BFW Pumps P-073A&B	24.5	17.9	17.9	17.9	
Blower F 401	60.7	54.0	54.0	54.0	
Boiler Crude Unit-Heater Opening	25.7	19.0	19.0	19.0	
Brine Transfer P-085	33.3	26.6	26.6	26.6	
Burner H301 North	54.9	48.2	48.2	48.2	
Burner H301 South	41.2	34.5	34.5	34.5	
Burner H302 North	51.9	45.3	45.3	45.3	
Burner H302 South	49.5	42.8	42.8	42.8	
Burner H303 North	42.4	35.8	35.8	35.8	
Burner H303 South	36.9	30.2	30.2	30.2	
Burner H304 North	44.1	37.4	37.4	37.4	
Burner H304 South	39.1	32.4	32.4	32.4	
Burner H305 North	50.5	43.8	43.8	43.8	
Burner H305 South	37.9	31.2	31.2	31.2	
Burner H306 North	51.8	45.1	45.1	45.1	
Burner H306 South	39.5	32.8	32.8	32.8	
Compressor House C301, C302, C 124-Comp House East 1	48.0	41.3	41.3	41.3	
Compressor House C301, C302, C 124-Comp House East 2	46.2	39.5	39.5	39.5	
Compressor House C301, C302, C 124-Comp House North	54.1	47.5	47.5	47.5	
Compressor House C301, C302, C 124-Comp House South 1	37.5	30.8	30.8	30.8	
Compressor House C301, C302, C 124-Comp House South 2	32.1	25.5	25.5	25.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	31.1	24.4	24.4	24.4	
Cooling Tower CT 510-CT 510 East Side	43.8	37.1	37.1	37.1	
Cooling Tower CT 510-CT 510 West Side	41.2	34.5	34.5	34.5	
Cooling Tower CT 511-CT 511 East Side	30.2	23.5	23.5	23.5	
Cooling Tower CT 511-CT 511 West Side	55.9	49.3	49.3	49.3	
Cooling Tower M 512	28.9	22.2	22.2	22.2	
Cooling Tower M 513	28.7	22.0	22.0	22.0	
Cooling Tower M 514	29.1	22.4	22.4	22.4	
Crude Plant Operation 80 dB/m^2 at 1 m	42.6	35.9	35.9	35.9	
xxxx xxxx xxxx xxxx	33.2	26.6	26.6	26.6	
xxxx xxxx xxxx xxxx	37.5	30.9	30.9	30.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	42.8	36.2	36.2	36.2	
xxxx xxxx xxxx xxxx	30.0	23.1	25.3	23.1	
CT Y-600-CT Y-600 North	26.4	19.8	19.8	19.8	
CT Y-600-CT Y-600 South	24.1	17.4	17.4	17.4	
Deaerator Skid P-058A&B	27.2	20.5	20.5	20.5	
xxxx xxxx xxxx xxxx	40.9	39.4	37.7	31.8	
xxxx xxxx xxxx xxxx	40.6	39.1	37.4	31.5	
Exhaust Stack	46.6	40.0	40.0	40.0	
F.G. After Cooler XF-083ABC	32.8	26.2	26.2	26.2	
Fan Y-600	34.3	27.6	27.6	27.6	
FG Compressor Enclosure-FG Enclosure Roof	22.0	15.3	15.3	15.3	
FG Compressor Enclosure-FG Enclosure East	15.9	9.2	9.2	9.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	1.3	-5.3	-5.3	-5.3	
FG Compressor Enclosure-FG Enclosure North	22.7	16.1	16.1	16.1	
FG Compressor Enclosure-FG Enclosure South	9.0	2.4	2.4	2.4	
FG Compressor Enclosure-FG Enclosure West	19.6	12.9	12.9	12.9	
FG Compressor Enclosure-FG Enclosure West Louver 3	3.4	-3.3	-3.3	-3.3	
Fin Fan XF 616 - Above	20.5	13.8	13.8	13.8	
Fin Fan XF 616 - Below	33.6	26.9	26.9	26.9	
Fin Fan XF 617 - Above	17.7	11.0	11.0	11.0	
Fin Fan XF 617 - Below	29.5	22.8	22.8	22.8	
Heater # 5-Heater	21.3	14.6	14.6	14.6	
Heater # 5-Heater	19.6	13.0	13.0	13.0	
Heater # 5-Heater	19.1	12.5	12.5	12.5	
Heater H 601	19.2	12.5	12.5	12.5	
Hydro Heater H-402	45.1	38.4	38.4	38.4	
ID Fan	52.1	45.5	45.5	45.5	
ID Fan 200 HP Motor	41.2	34.5	34.5	34.5	
Incinirator Compressor & Motor	23.5	16.9	16.9	16.9	
Incinirator Fin Fan	26.7	20.1	20.1	20.1	
xxxx xxxx xxxx xxxx	31.3	29.8	28.1	22.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	31.6	30.1	28.4	22.5	
Lub Oil Cooler XF-061	33.4	26.7	26.7	26.7	
Misc pumps motors	31.3	24.6	24.6	24.6	
Motor & Pump P - 1502 Splitter Reflux Pu	48.0	41.3	41.3	41.3	
Motor & Pump P - 1503 Splitter Bottoms P	48.9	42.2	42.2	42.2	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.6	42.6	42.6	
Motor & Pump P - 1507 Reactor Pump	47.5	40.8	40.8	40.8	
Motor & Pump P - 1508 Reactor Pump	47.3	40.6	40.6	40.6	
Motor & Pump P - 1511 Stabilizer Reflux	51.1	44.5	44.5	44.5	
Motor & Pump P - 1512 Stabilizer Reflux	46.4	39.8	39.8	39.8	
Motor & Pump P - 1513 Caustic Circulatin	45.2	38.5	38.5	38.5	
Motor & Pump P - 1514 Caustic Circulatin	46.6	39.9	39.9	39.9	
Motor & Pump P 120/121	55.1	48.5	48.5	48.5	
Motor & Pump P 1505 FRESH FEED PUMPS	47.4	40.8	40.8	40.8	
Motor & Pump P 1506 FRESH FEED PUMPS	47.6	40.9	40.9	40.9	
Motor & Pump P 1509 Chloride Injection P	52.7	46.0	46.0	46.0	
Motor & Pump P 1510 Chloride Injection P	52.8	46.2	46.2	46.2	
Motor & Pump P 1601 A	51.5	44.9	44.9	44.9	
Motor & Pump P 1601 B	48.6	42.0	42.0	42.0	
Motor & Pump P 1602 A	49.6	42.9	42.9	42.9	
Motor & Pump P 1602 B	49.7	43.0	43.0	43.0	
Motor & Pump P 211/212	40.8	34.1	34.1	34.1	
Motor & Pump P 215/214	37.2	30.5	30.5	30.5	
Motor & Pump P 216	42.4	35.7	35.7	35.7	
Motor & Pump P 217/218	37.1	30.5	30.5	30.5	
Motor & Pump P 300	50.0	43.4	43.4	43.4	
Motor & Pump P 301	52.4	45.7	45.7	45.7	
Motor & Pump P 302	50.5	43.8	43.8	43.8	
Motor & Pump P 303	51.0	44.3	44.3	44.3	
Motor & Pump P 305	52.6	46.0	46.0	46.0	
Motor & Pump P 306	61.0	54.3	54.3	54.3	
Motor & Pump P 307	51.6	45.0	45.0	45.0	
Motor & Pump P 309	52.4	45.7	45.7	45.7	
Motor & Pump P 312	43.2	36.5	36.5	36.5	
Motor & Pump P 313	43.3	36.7	36.7	36.7	
Motor & Pump P 315	45.6	38.9	38.9	38.9	
Motor & Pump P 316	46.0	39.3	39.3	39.3	
Motor & Pump P 317	45.7	39.0	39.0	39.0	
Motor & Pump P 318	42.8	36.1	36.1	36.1	
Motor & Pump P 319	42.5	35.9	35.9	35.9	
Motor & Pump P 327	55.7	49.1	49.1	49.1	
Motor & Pump P 328	63.7	57.0	57.0	57.0	
Motor & Pump P 329	62.1	55.4	55.4	55.4	
Motor & Pump P 451	32.9	26.2	26.2	26.2	
Motor & Pump P 453	35.9	29.2	29.2	29.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 454	39.4	32.7	32.7	32.7	
Motor & Pump P 457	38.8	32.2	32.2	32.2	
Motor & Pump P 458	32.0	25.3	25.3	25.3	
Motor & Pump P 459	39.3	32.6	32.6	32.6	
Motor & Pump P 56A/B	42.1	35.5	35.5	35.5	
P602 100 HP	22.0	15.4	15.4	15.4	
P603 60 HP	19.7	13.1	13.1	13.1	
P605 40 HP	19.8	13.1	13.1	13.1	
P607 15 HP	16.4	9.7	9.7	9.7	
P608 15 HP	18.3	11.7	11.7	11.7	
P611 15 HP	16.2	9.5	9.5	9.5	
P614/615 20 HP	18.7	12.1	12.1	12.1	
Rail Cars Bumping 6 times in during delivery	34.3	37.3			
Scanner Blower C-084A/B	23.2	16.5	16.5	16.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	13.7	7.1	7.1	7.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	14.0	7.3	7.3	7.3	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	12.0	5.4	5.4	5.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	9.4	2.7	2.7	2.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	12.9	6.3	6.3	6.3	
Solar Turbine T70 Boiler-Boiler East 1	12.2	5.5	5.5	5.5	
Solar Turbine T70 Boiler-Boiler East 2	10.7	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler North 1	25.9	19.2	19.2	19.2	
Solar Turbine T70 Boiler-Boiler North 2	16.8	10.1	10.1	10.1	
Solar Turbine T70 Boiler-Boiler Roof	22.5	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler South	22.4	15.7	15.7	15.7	
Solar Turbine T70 Boiler-Boiler South 2	13.5	6.8	6.8	6.8	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	27.7	21.0	21.0	21.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	35.6	29.0	29.0	29.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	32.2	25.5	25.5	25.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	33.1	26.4	26.4	26.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	25.7	19.0	19.0	19.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.7	15.0	15.0	15.0	
Solar Turbine T70 SCR-SCR Unit Roof	16.3	9.6	9.6	9.6	
Solar Turbine T70 SCR-SCR Unit NE	9.4	2.8	2.8	2.8	
Solar Turbine T70 SCR-SCR Unit North	16.3	9.7	9.7	9.7	
Solar Turbine T70 SCR-SCR Unit NW	12.7	6.0	6.0	6.0	
Solar Turbine T70 SCR-SCR Unit SE	6.7	0.1	0.1	0.1	
Solar Turbine T70 SCR-SCR Unit South	12.9	6.2	6.2	6.2	
Solar Turbine T70 SCR-SCR Unit SW	9.3	2.6	2.6	2.6	
xxxx xxxx xxxx xxxx	22.1	20.6	18.9	13.0	
xxxx xxxx xxxx xxxx	22.5	20.9	19.2	13.3	
Tank Farm Pump 1	27.9	21.2	21.2	21.2	
Tank Farm Pump 2	25.4	18.7	18.7	18.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 3	26.3	19.6	19.6	19.6	
UP Train Locomotive Delivery and Pickup	31.2	34.2			
Vaporizer Blower 1	21.4	14.7	14.7	14.7	
Vaporizer Blower 2	21.4	14.7	14.7	14.7	
Vaporizer Inlet Silencer	10.5	3.8	3.8	3.8	
Vaporizer Motor 1	15.4	8.8	8.8	8.8	
Vaporizer Motor 2	15.4	8.8	8.8	8.8	
Water Treatment Pumps P-056A&B	24.9	18.2	18.2	18.2	
XF-1502 Splitter Area 1	54.7	48.1	48.1	48.1	
XF-1502 Splitter Area 2	54.4	47.7	47.7	47.7	
XF-1504 Splitter Area 1	52.5	45.8	45.8	45.8	
XF-1504 Splitter Area 2	52.5	45.8	45.8	45.8	
XF - 1601	45.8	39.2	39.2	39.2	
XF - 1602	49.1	42.4	42.4	42.4	
XF 304, XF 321	57.8	51.1	51.1	51.1	
XF 313, XF 314	58.8	52.1	52.1	52.1	
XF 335-1, XF 335-2	60.2	53.6	53.6	53.6	
XF 503	60.0	53.3	53.3	53.3	
XF Module 1510	57.8	51.1	51.1	51.1	
XF Module 1519	59.0	52.4	52.4	52.4	
Receiver MH-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.0 dB(A) Ld 7-19 dB(A) Leq,N 64.0 dB(A) Le 19-					
2.8-Open Intake	38.0	31.3	31.3	31.3	
2011 Track Mobile switch moving rail cars 33 cars per day	30.3	33.3			
Air Compressor C 1	53.7	47.0	47.0	47.0	
Air Compressor Pump, Motor Fan CMXF -055	26.1	19.5	19.5	19.5	
Asphalt Production	42.1	35.4	35.4	35.4	
BFW Pumps P-073A&B	23.5	16.8	16.8	16.8	
Blower F 401	56.0	49.4	49.4	49.4	
Boiler Crude Unit-Heater Opening	25.9	19.3	19.3	19.3	
Brine Transfer P-085	25.3	18.7	18.7	18.7	
Burner H301 North	53.2	46.6	46.6	46.6	
Burner H301 South	38.3	31.6	31.6	31.6	
Burner H302 North	51.0	44.3	44.3	44.3	
Burner H302 South	46.9	40.2	40.2	40.2	
Burner H303 North	40.8	34.1	34.1	34.1	
Burner H303 South	38.1	31.4	31.4	31.4	
Burner H304 North	38.5	31.8	31.8	31.8	
Burner H304 South	39.3	32.6	32.6	32.6	
Burner H305 North	46.0	39.3	39.3	39.3	
Burner H305 South	34.3	27.6	27.6	27.6	
Burner H306 North	51.4	44.7	44.7	44.7	
Burner H306 South	39.0	32.4	32.4	32.4	
Compressor House C301, C302, C 124-Comp House East 1	48.9	42.2	42.2	42.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	47.8	41.1	41.1	41.1	
Compressor House C301, C302, C 124-Comp House North	54.8	48.2	48.2	48.2	
Compressor House C301, C302, C 124-Comp House South 1	37.5	30.8	30.8	30.8	
Compressor House C301, C302, C 124-Comp House South 2	33.5	26.8	26.8	26.8	
Compressor House C301, C302, C 124-Comp House West	28.2	21.5	21.5	21.5	
Cooling Tower CT 510-CT 510 East Side	49.9	43.3	43.3	43.3	
Cooling Tower CT 510-CT 510 West Side	39.6	32.9	32.9	32.9	
Cooling Tower CT 511-CT 511 East Side	32.4	25.8	25.8	25.8	
Cooling Tower CT 511-CT 511 West Side	40.3	33.6	33.6	33.6	
Cooling Tower M 512	30.4	23.7	23.7	23.7	
Cooling Tower M 513	30.0	23.3	23.3	23.3	
Cooling Tower M 514	32.1	25.4	25.4	25.4	
Crude Plant Operation 80 dB/m^2 at 1 m	42.8	36.1	36.1	36.1	
xxxx xxxx xxxx xxxx	34.4	27.7	27.7	27.7	
xxxx xxxx xxxx xxxx	39.6	32.9	32.9	32.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	44.5	37.8	37.8	37.8	
xxxx xxxx xxxx xxxx	31.6	24.7	26.7	24.7	
CT Y-600-CT Y-600 North	29.0	22.3	22.3	22.3	
CT Y-600-CT Y-600 South	24.3	17.7	17.7	17.7	
Deaerator Skid P-058A&B	25.0	18.3	18.3	18.3	
xxxx xxxx xxxx xxxx	39.6	38.1	36.4	30.5	
xxxx xxxx xxxx xxxx	39.7	38.2	36.5	30.6	
Exhaust Stack	38.3	31.7	31.7	31.7	
F.G. After Cooler XF-083ABC	31.2	24.5	24.5	24.5	
Fan Y-600	34.0	27.4	27.4	27.4	
FG Compressor Enclosure-FG Enclosure Roof	18.6	12.0	12.0	12.0	
FG Compressor Enclosure-FG Enclosure East	14.6	8.0	8.0	8.0	
FG Compressor Enclosure-FG Enclosure East Louver 1	0.9	-5.8	-5.8	-5.8	
FG Compressor Enclosure-FG Enclosure North	20.0	13.4	13.4	13.4	
FG Compressor Enclosure-FG Enclosure South	8.1	1.4	1.4	1.4	
FG Compressor Enclosure-FG Enclosure West	17.5	10.8	10.8	10.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	2.8	-3.9	-3.9	-3.9	
Fin Fan XF 616 - Above	22.2	15.6	15.6	15.6	
Fin Fan XF 616 - Below	35.1	28.4	28.4	28.4	
Fin Fan XF 617 - Above	17.0	10.4	10.4	10.4	
Fin Fan XF 617 - Below	29.0	22.3	22.3	22.3	
Heater # 5-Heater	22.6	15.9	15.9	15.9	
Heater # 5-Heater	20.2	13.5	13.5	13.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	19.4	12.7	12.7	12.7	
Heater H 601	24.4	17.8	17.8	17.8	
Hydro Heater H-402	42.9	36.2	36.2	36.2	
ID Fan	51.2	44.5	44.5	44.5	
ID Fan 200 HP Motor	40.3	33.7	33.7	33.7	
Incinirator Compressor & Motor	23.5	16.8	16.8	16.8	
Incinirator Fin Fan	26.9	20.3	20.3	20.3	
xxxx xxxx xxxx xxxx	31.9	30.4	28.7	22.8	
xxxx xxxx xxxx xxxx	32.1	30.6	28.9	22.9	
Lub Oil Cooler XF-061	31.7	25.1	25.1	25.1	
Misc pumps motors	34.6	27.9	27.9	27.9	
Motor & Pump P - 1502 Splitter Reflux Pu	47.4	40.7	40.7	40.7	
Motor & Pump P - 1503 Splitter Bottoms P	48.3	41.6	41.6	41.6	
Motor & Pump P - 1504 Splitter Bottoms P	48.6	42.0	42.0	42.0	
Motor & Pump P - 1507 Reactor Pump	50.3	43.6	43.6	43.6	
Motor & Pump P - 1508 Reactor Pump	50.0	43.3	43.3	43.3	
Motor & Pump P - 1511 Stabilizer Reflux	48.1	41.5	41.5	41.5	
Motor & Pump P - 1512 Stabilizer Reflux	47.6	40.9	40.9	40.9	
Motor & Pump P - 1513 Caustic Circulatin	48.2	41.5	41.5	41.5	
Motor & Pump P - 1514 Caustic Circulatin	47.7	41.0	41.0	41.0	
Motor & Pump P 120/121	52.8	46.2	46.2	46.2	
Motor & Pump P 1505 FRESH FEED PUMPS	50.0	43.4	43.4	43.4	
Motor & Pump P 1506 FRESH FEED PUMPS	49.9	43.2	43.2	43.2	
Motor & Pump P 1509 Chloride Injection P	51.6	45.0	45.0	45.0	
Motor & Pump P 1510 Chloride Injection P	51.6	45.0	45.0	45.0	
Motor & Pump P 1601 A	40.5	33.9	33.9	33.9	
Motor & Pump P 1601 B	32.4	25.8	25.8	25.8	
Motor & Pump P 1602 A	33.8	27.1	27.1	27.1	
Motor & Pump P 1602 B	46.6	39.9	39.9	39.9	
Motor & Pump P 211/212	41.5	34.8	34.8	34.8	
Motor & Pump P 215/214	38.8	32.1	32.1	32.1	
Motor & Pump P 216	41.6	34.9	34.9	34.9	
Motor & Pump P 217/218	41.2	34.5	34.5	34.5	
Motor & Pump P 300	52.3	45.7	45.7	45.7	
Motor & Pump P 301	57.4	50.8	50.8	50.8	
Motor & Pump P 302	52.8	46.1	46.1	46.1	
Motor & Pump P 303	52.4	45.7	45.7	45.7	
Motor & Pump P 305	50.9	44.3	44.3	44.3	
Motor & Pump P 306	53.6	46.9	46.9	46.9	
Motor & Pump P 307	55.7	49.1	49.1	49.1	
Motor & Pump P 309	45.2	38.6	38.6	38.6	
Motor & Pump P 312	42.6	35.9	35.9	35.9	
Motor & Pump P 313	43.2	36.6	36.6	36.6	
Motor & Pump P 315	44.7	38.0	38.0	38.0	
Motor & Pump P 316	43.1	36.4	36.4	36.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 317	42.9	36.3	36.3	36.3	
Motor & Pump P 318	44.2	37.5	37.5	37.5	
Motor & Pump P 319	43.6	36.9	36.9	36.9	
Motor & Pump P 327	53.7	47.0	47.0	47.0	
Motor & Pump P 328	56.0	49.4	49.4	49.4	
Motor & Pump P 329	53.6	46.9	46.9	46.9	
Motor & Pump P 451	37.2	30.6	30.6	30.6	
Motor & Pump P 453	45.2	38.5	38.5	38.5	
Motor & Pump P 454	36.9	30.2	30.2	30.2	
Motor & Pump P 457	43.2	36.5	36.5	36.5	
Motor & Pump P 458	38.9	32.2	32.2	32.2	
Motor & Pump P 459	36.3	29.7	29.7	29.7	
Motor & Pump P 56A/B	38.3	31.6	31.6	31.6	
P602 100 HP	22.4	15.7	15.7	15.7	
P603 60 HP	23.3	16.6	16.6	16.6	
P605 40 HP	22.7	16.0	16.0	16.0	
P607 15 HP	21.8	15.1	15.1	15.1	
P608 15 HP	21.7	15.0	15.0	15.0	
P611 15 HP	20.4	13.7	13.7	13.7	
P614/615 20 HP	24.6	18.0	18.0	18.0	
Rail Cars Bumping 6 times in during delivery	32.2	35.2			
Scanner Blower C-084A/B	23.0	16.3	16.3	16.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	7.9	1.2	1.2	1.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	6.4	-0.2	-0.2	-0.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	5.5	-1.2	-1.2	-1.2	
Solar Turbine T70 2nd Boiler-2nd Boiler South	6.2	-0.5	-0.5	-0.5	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	6.1	-0.5	-0.5	-0.5	
Solar Turbine T70 Boiler-Boiler East 1	11.3	4.6	4.6	4.6	
Solar Turbine T70 Boiler-Boiler East 2	9.8	3.1	3.1	3.1	
Solar Turbine T70 Boiler-Boiler North 1	23.9	17.2	17.2	17.2	
Solar Turbine T70 Boiler-Boiler North 2	15.1	8.4	8.4	8.4	
Solar Turbine T70 Boiler-Boiler Roof	19.6	12.9	12.9	12.9	
Solar Turbine T70 Boiler-Boiler South	21.4	14.8	14.8	14.8	
Solar Turbine T70 Boiler-Boiler South 2	12.6	5.9	5.9	5.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	27.1	20.4	20.4	20.4	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	34.0	27.4	27.4	27.4	
Solar Turbine T70 Enclosure-T70 Encl. Roof	30.2	23.5	23.5	23.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	32.5	25.8	25.8	25.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	25.0	18.4	18.4	18.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.2	14.6	14.6	14.6	
Solar Turbine T70 SCR-SCR Unit Roof	12.9	6.2	6.2	6.2	
Solar Turbine T70 SCR-SCR Unit NE	7.2	0.5	0.5	0.5	
Solar Turbine T70 SCR-SCR Unit North	13.5	6.8	6.8	6.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 SCR-SCR Unit NW	8.4	1.7	1.7	1.7	
Solar Turbine T70 SCR-SCR Unit SE	5.6	-1.0	-1.0	-1.0	
Solar Turbine T70 SCR-SCR Unit South	11.3	4.6	4.6	4.6	
Solar Turbine T70 SCR-SCR Unit SW	6.3	-0.4	-0.4	-0.4	
xxxx xxxx xxxx xxxx	24.0	22.5	20.8	14.9	
xxxx xxxx xxxx xxxx	24.5	23.0	21.2	15.3	
Tank Farm Pump 1	28.0	21.3	21.3	21.3	
Tank Farm Pump 2	27.7	21.1	21.1	21.1	
Tank Farm Pump 3	27.8	21.1	21.1	21.1	
UP Train Locomotive Delivery and Pickup	29.9	32.9			
Vaporizer Blower 1	20.1	13.5	13.5	13.5	
Vaporizer Blower 2	20.5	13.8	13.8	13.8	
Vaporizer Inlet Silencer	8.4	1.8	1.8	1.8	
Vaporizer Motor 1	14.4	7.7	7.7	7.7	
Vaporizer Motor 2	14.8	8.1	8.1	8.1	
Water Treatment Pumps P-056A&B	21.5	14.9	14.9	14.9	
XF-1502 Splitter Area 1	54.9	48.2	48.2	48.2	
XF-1502 Splitter Area 2	54.6	47.9	47.9	47.9	
XF-1504 Splitter Area 1	55.4	48.7	48.7	48.7	
XF-1504 Splitter Area 2	55.1	48.4	48.4	48.4	
XF - 1601	41.3	34.6	34.6	34.6	
XF - 1602	40.6	34.0	34.0	34.0	
XF 304, XF 321	57.0	50.3	50.3	50.3	
XF 313, XF 314	57.3	50.6	50.6	50.6	
XF 335-1, XF 335-2	59.5	52.9	52.9	52.9	
XF 503	56.8	50.2	50.2	50.2	
XF Module 1510	57.9	51.2	51.2	51.2	
XF Module 1519	59.0	52.4	52.4	52.4	
Receiver MH-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.7 dB(A) Ld 7-19 dB(A) Leq,N 61.6 dB(A) Le 19-					
2.8-Open Intake	38.3	31.6	31.6	31.6	
2011 Track Mobile switch moving rail cars 33 cars per day	31.5	34.6			
Air Compressor C 1	55.0	48.4	48.4	48.4	
Air Compressor Pump, Motor Fan CMXF -055	26.3	19.7	19.7	19.7	
Asphalt Production	42.8	36.1	36.1	36.1	
BFW Pumps P-073A&B	23.7	17.0	17.0	17.0	
Blower F 401	54.4	47.7	47.7	47.7	
Boiler Crude Unit-Heater Opening	31.8	25.2	25.2	25.2	
Brine Transfer P-085	27.7	21.0	21.0	21.0	
Burner H301 North	52.2	45.5	45.5	45.5	
Burner H301 South	36.6	29.9	29.9	29.9	
Burner H302 North	51.8	45.1	45.1	45.1	
Burner H302 South	39.7	33.1	33.1	33.1	
Burner H303 North	46.2	39.5	39.5	39.5	
Burner H303 South	39.8	33.1	33.1	33.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H304 North	39.3	32.7	32.7	32.7	
Burner H304 South	43.9	37.2	37.2	37.2	
Burner H305 North	41.8	35.2	35.2	35.2	
Burner H305 South	34.1	27.5	27.5	27.5	
Burner H306 North	49.7	43.0	43.0	43.0	
Burner H306 South	33.7	27.0	27.0	27.0	
Compressor House C301, C302, C 124-Comp House East 1	48.1	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House East 2	47.0	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House North	54.7	48.0	48.0	48.0	
Compressor House C301, C302, C 124-Comp House South 1	37.0	30.3	30.3	30.3	
Compressor House C301, C302, C 124-Comp House South 2	33.0	26.3	26.3	26.3	
Compressor House C301, C302, C 124-Comp House West	25.9	19.2	19.2	19.2	
Cooling Tower CT 510-CT 510 East Side	38.6	31.9	31.9	31.9	
Cooling Tower CT 510-CT 510 West Side	32.6	25.9	25.9	25.9	
Cooling Tower CT 511-CT 511 East Side	48.6	41.9	41.9	41.9	
Cooling Tower CT 511-CT 511 West Side	28.9	22.2	22.2	22.2	
Cooling Tower M 512	27.1	20.4	20.4	20.4	
Cooling Tower M 513	27.0	20.3	20.3	20.3	
Cooling Tower M 514	27.2	20.5	20.5	20.5	
Crude Plant Operation 80 dB/m^2 at 1 m	53.4	46.7	46.7	46.7	
xxxx xxxx xxxx xxxx	35.9	29.2	29.2	29.2	
xxxx xxxx xxxx xxxx	46.3	39.6	39.6	39.6	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	55.7	49.0	49.0	49.0	
xxxx xxxx xxxx xxxx	36.5	29.6	31.9	29.6	
CT Y-600-CT Y-600 North	31.1	24.4	24.4	24.4	
CT Y-600-CT Y-600 South	24.9	18.2	18.2	18.2	
Deaerator Skid P-058A&B	24.3	17.7	17.7	17.7	
xxxx xxxx xxxx xxxx	37.9	36.4	34.7	28.8	
xxxx xxxx xxxx xxxx	37.8	36.3	34.6	28.7	
Exhaust Stack	51.9	45.3	45.3	45.3	
F.G. After Cooler XF-083ABC	32.7	26.0	26.0	26.0	
Fan Y-600	32.4	25.7	25.7	25.7	
FG Compressor Enclosure-FG Enclosure Roof	19.3	12.6	12.6	12.6	
FG Compressor Enclosure-FG Enclosure East	14.6	7.9	7.9	7.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	1.2	-5.5	-5.5	-5.5	
FG Compressor Enclosure-FG Enclosure North	20.4	13.7	13.7	13.7	
FG Compressor Enclosure-FG Enclosure South	8.1	1.4	1.4	1.4	
FG Compressor Enclosure-FG Enclosure West	17.8	11.1	11.1	11.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FG Compressor Enclosure-FG Enclosure West Louver 3	2.5	-4.1	-4.1	-4.1	
Fin Fan XF 616 - Above	28.0	21.4	21.4	21.4	
Fin Fan XF 616 - Below	42.2	35.5	35.5	35.5	
Fin Fan XF 617 - Above	26.6	20.0	20.0	20.0	
Fin Fan XF 617 - Below	39.8	33.1	33.1	33.1	
Heater # 5-Heater	26.8	20.2	20.2	20.2	
Heater # 5-Heater	24.1	17.4	17.4	17.4	
Heater # 5-Heater	23.2	16.6	16.6	16.6	
Heater H 601	26.2	19.5	19.5	19.5	
Hydro Heater H-402	41.9	35.2	35.2	35.2	
ID Fan	52.9	46.2	46.2	46.2	
ID Fan 200 HP Motor	42.3	35.6	35.6	35.6	
Incinirator Compressor & Motor	32.6	26.0	26.0	26.0	
Incinirator Fin Fan	34.3	27.6	27.6	27.6	
xxxx xxxx xxxx xxxx	32.1	30.6	28.9	23.0	
xxxx xxxx xxxx xxxx	32.4	30.9	29.2	23.3	
Lub Oil Cooler XF-061	32.0	25.4	25.4	25.4	
Misc pumps motors	47.4	40.8	40.8	40.8	
Motor & Pump P - 1502 Splitter Reflux Pu	32.1	25.5	25.5	25.5	
Motor & Pump P - 1503 Splitter Bottoms P	32.7	26.1	26.1	26.1	
Motor & Pump P - 1504 Splitter Bottoms P	33.4	26.8	26.8	26.8	
Motor & Pump P - 1507 Reactor Pump	35.2	28.5	28.5	28.5	
Motor & Pump P - 1508 Reactor Pump	35.6	28.9	28.9	28.9	
Motor & Pump P - 1511 Stabilizer Reflux	31.4	24.7	24.7	24.7	
Motor & Pump P - 1512 Stabilizer Reflux	31.5	24.9	24.9	24.9	
Motor & Pump P - 1513 Caustic Circulatin	32.4	25.8	25.8	25.8	
Motor & Pump P - 1514 Caustic Circulatin	32.1	25.5	25.5	25.5	
Motor & Pump P 120/121	46.7	40.0	40.0	40.0	
Motor & Pump P 1505 FRESH FEED PUMPS	34.0	27.4	27.4	27.4	
Motor & Pump P 1506 FRESH FEED PUMPS	38.3	31.6	31.6	31.6	
Motor & Pump P 1509 Chloride Injection P	41.8	35.2	35.2	35.2	
Motor & Pump P 1510 Chloride Injection P	42.4	35.7	35.7	35.7	
Motor & Pump P 1601 A	31.0	24.3	24.3	24.3	
Motor & Pump P 1601 B	33.0	26.4	26.4	26.4	
Motor & Pump P 1602 A	38.2	31.5	31.5	31.5	
Motor & Pump P 1602 B	35.4	28.8	28.8	28.8	
Motor & Pump P 211/212	37.0	30.3	30.3	30.3	
Motor & Pump P 215/214	40.1	33.4	33.4	33.4	
Motor & Pump P 216	40.5	33.8	33.8	33.8	
Motor & Pump P 217/218	37.1	30.5	30.5	30.5	
Motor & Pump P 300	45.8	39.2	39.2	39.2	
Motor & Pump P 301	51.4	44.7	44.7	44.7	
Motor & Pump P 302	44.5	37.8	37.8	37.8	
Motor & Pump P 303	44.4	37.7	37.7	37.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 305	43.3	36.6	36.6	36.6	
Motor & Pump P 306	49.9	43.2	43.2	43.2	
Motor & Pump P 307	58.3	51.6	51.6	51.6	
Motor & Pump P 309	44.2	37.6	37.6	37.6	
Motor & Pump P 312	46.5	39.8	39.8	39.8	
Motor & Pump P 313	42.3	35.6	35.6	35.6	
Motor & Pump P 315	43.7	37.1	37.1	37.1	
Motor & Pump P 316	43.0	36.3	36.3	36.3	
Motor & Pump P 317	42.5	35.8	35.8	35.8	
Motor & Pump P 318	38.2	31.5	31.5	31.5	
Motor & Pump P 319	37.1	30.4	30.4	30.4	
Motor & Pump P 327	52.6	45.9	45.9	45.9	
Motor & Pump P 328	55.9	49.2	49.2	49.2	
Motor & Pump P 329	50.5	43.9	43.9	43.9	
Motor & Pump P 451	29.3	22.7	22.7	22.7	
Motor & Pump P 453	27.8	21.1	21.1	21.1	
Motor & Pump P 454	29.9	23.2	23.2	23.2	
Motor & Pump P 457	27.7	21.0	21.0	21.0	
Motor & Pump P 458	30.8	24.1	24.1	24.1	
Motor & Pump P 459	30.6	23.9	23.9	23.9	
Motor & Pump P 56A/B	41.3	34.6	34.6	34.6	
P602 100 HP	23.1	16.5	16.5	16.5	
P603 60 HP	21.7	15.1	15.1	15.1	
P605 40 HP	21.7	15.0	15.0	15.0	
P607 15 HP	17.1	10.4	10.4	10.4	
P608 15 HP	17.2	10.5	10.5	10.5	
P611 15 HP	17.1	10.4	10.4	10.4	
P614/615 20 HP	24.2	17.5	17.5	17.5	
Rail Cars Bumping 6 times in during delivery	31.9	34.9			
Scanner Blower C-084A/B	23.1	16.5	16.5	16.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	11.7	5.0	5.0	5.0	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	11.7	5.0	5.0	5.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	9.7	3.0	3.0	3.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	8.6	1.9	1.9	1.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	10.5	3.8	3.8	3.8	
Solar Turbine T70 Boiler-Boiler East 1	11.5	4.8	4.8	4.8	
Solar Turbine T70 Boiler-Boiler East 2	9.9	3.2	3.2	3.2	
Solar Turbine T70 Boiler-Boiler North 1	24.5	17.8	17.8	17.8	
Solar Turbine T70 Boiler-Boiler North 2	15.7	9.0	9.0	9.0	
Solar Turbine T70 Boiler-Boiler Roof	19.8	13.1	13.1	13.1	
Solar Turbine T70 Boiler-Boiler South	21.7	15.0	15.0	15.0	
Solar Turbine T70 Boiler-Boiler South 2	12.8	6.1	6.1	6.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	27.6	20.9	20.9	20.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	34.2	27.5	27.5	27.5	
Solar Turbine T70 Enclosure-T70 Encl. Roof	30.5	23.8	23.8	23.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	32.6	26.0	26.0	26.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	25.1	18.4	18.4	18.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.4	14.7	14.7	14.7	
Solar Turbine T70 SCR-SCR Unit Roof	13.6	6.9	6.9	6.9	
Solar Turbine T70 SCR-SCR Unit NE	8.3	1.6	1.6	1.6	
Solar Turbine T70 SCR-SCR Unit North	15.1	8.4	8.4	8.4	
Solar Turbine T70 SCR-SCR Unit NW	10.9	4.2	4.2	4.2	
Solar Turbine T70 SCR-SCR Unit SE	6.0	-0.6	-0.6	-0.6	
Solar Turbine T70 SCR-SCR Unit South	12.1	5.5	5.5	5.5	
Solar Turbine T70 SCR-SCR Unit SW	7.9	1.2	1.2	1.2	
xxxx xxxx xxxx xxxx	25.2	23.7	22.0	16.1	
xxxx xxxx xxxx xxxx	26.0	24.5	22.7	16.8	
Tank Farm Pump 1	28.2	21.6	21.6	21.6	
Tank Farm Pump 2	27.7	21.0	21.0	21.0	
Tank Farm Pump 3	27.7	21.0	21.0	21.0	
UP Train Locomotive Delivery and Pickup	29.1	32.2			
Vaporizer Blower 1	20.1	13.4	13.4	13.4	
Vaporizer Blower 2	20.1	13.4	13.4	13.4	
Vaporizer Inlet Silencer	8.7	2.0	2.0	2.0	
Vaporizer Motor 1	14.3	7.6	7.6	7.6	
Vaporizer Motor 2	14.3	7.6	7.6	7.6	
Water Treatment Pumps P-056A&B	22.6	15.9	15.9	15.9	
XF-1502 Splitter Area 1	38.2	31.5	31.5	31.5	
XF-1502 Splitter Area 2	36.9	30.2	30.2	30.2	
XF-1504 Splitter Area 1	37.4	30.7	30.7	30.7	
XF-1504 Splitter Area 2	37.1	30.5	30.5	30.5	
XF - 1601	38.0	31.4	31.4	31.4	
XF - 1602	38.3	31.6	31.6	31.6	
XF 304, XF 321	56.1	49.4	49.4	49.4	
XF 313, XF 314	56.2	49.5	49.5	49.5	
XF 335-1, XF 335-2	58.0	51.4	51.4	51.4	
XF 503	56.1	49.4	49.4	49.4	
XF Module 1510	42.0	35.4	35.4	35.4	
XF Module 1519	43.6	37.0	37.0	37.0	
Receiver MH-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.0 dB(A) Ld 7-19 dB(A) Leq,N 58.9 dB(A) Le 19-					
2.8-Open Intake	44.5	37.8	37.8	37.8	
2011 Track Mobile switch moving rail cars 33 cars per day	27.6	30.6			
Air Compressor C 1	51.9	45.2	45.2	45.2	
Air Compressor Pump, Motor Fan CMXF -055	31.7	25.0	25.0	25.0	
Asphalt Production	55.1	48.4	48.4	48.4	
BFW Pumps P-073A&B	27.1	20.4	20.4	20.4	
Blower F 401	49.2	42.5	42.5	42.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Crude Unit-Heater Opening	27.2	20.5	20.5	20.5	
Brine Transfer P-085	25.4	18.7	18.7	18.7	
Burner H301 North	50.6	43.9	43.9	43.9	
Burner H301 South	40.3	33.6	33.6	33.6	
Burner H302 North	51.8	45.1	45.1	45.1	
Burner H302 South	38.7	32.0	32.0	32.0	
Burner H303 North	45.6	38.9	38.9	38.9	
Burner H303 South	31.7	25.0	25.0	25.0	
Burner H304 North	37.3	30.6	30.6	30.6	
Burner H304 South	40.5	33.8	33.8	33.8	
Burner H305 North	40.1	33.4	33.4	33.4	
Burner H305 South	31.1	24.5	24.5	24.5	
Burner H306 North	45.7	39.0	39.0	39.0	
Burner H306 South	28.7	22.0	22.0	22.0	
Compressor House C301, C302, C 124-Comp House East 1	41.2	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House East 2	38.2	31.5	31.5	31.5	
Compressor House C301, C302, C 124-Comp House North	45.6	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House South 1	33.8	27.2	27.2	27.2	
Compressor House C301, C302, C 124-Comp House South 2	28.3	21.6	21.6	21.6	
Compressor House C301, C302, C 124-Comp House West	22.5	15.9	15.9	15.9	
Cooling Tower CT 510-CT 510 East Side	37.2	30.5	30.5	30.5	
Cooling Tower CT 510-CT 510 West Side	22.9	16.3	16.3	16.3	
Cooling Tower CT 511-CT 511 East Side	45.5	38.8	38.8	38.8	
Cooling Tower CT 511-CT 511 West Side	28.2	21.6	21.6	21.6	
Cooling Tower M 512	27.2	20.5	20.5	20.5	
Cooling Tower M 513	27.1	20.4	20.4	20.4	
Cooling Tower M 514	27.5	20.8	20.8	20.8	
Crude Plant Operation 80 dB/m^2 at 1 m	43.1	36.4	36.4	36.4	
xxxx xxxx xxxx xxxx	37.7	31.0	31.0	31.0	
xxxx xxxx xxxx xxxx	46.6	39.9	39.9	39.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	45.1	38.5	38.5	38.5	
xxxx xxxx xxxx xxxx	39.8	32.9	35.0	32.9	
CT Y-600-CT Y-600 North	40.6	34.0	34.0	34.0	
CT Y-600-CT Y-600 South	26.3	19.7	19.7	19.7	
Deaerator Skid P-058A&B	41.8	35.1	35.1	35.1	
xxxx xxxx xxxx xxxx	36.8	35.3	33.6	27.7	
xxxx xxxx xxxx xxxx	36.8	35.3	33.6	27.7	
Exhaust Stack	43.7	37.1	37.1	37.1	
F.G. After Cooler XF-083ABC	39.2	32.5	32.5	32.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Fan Y-600	42.2	35.5	35.5	35.5	
FG Compressor Enclosure-FG Enclosure Roof	27.3	20.6	20.6	20.6	
FG Compressor Enclosure-FG Enclosure East	17.8	11.1	11.1	11.1	
FG Compressor Enclosure-FG Enclosure East Louver 1	3.4	-3.3	-3.3	-3.3	
FG Compressor Enclosure-FG Enclosure North	26.7	20.0	20.0	20.0	
FG Compressor Enclosure-FG Enclosure South	11.2	4.6	4.6	4.6	
FG Compressor Enclosure-FG Enclosure West	25.5	18.8	18.8	18.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	10.9	4.2	4.2	4.2	
Fin Fan XF 616 - Above	25.7	19.0	19.0	19.0	
Fin Fan XF 616 - Below	39.9	33.3	33.3	33.3	
Fin Fan XF 617 - Above	21.0	14.3	14.3	14.3	
Fin Fan XF 617 - Below	34.2	27.6	27.6	27.6	
Heater # 5-Heater	22.6	15.9	15.9	15.9	
Heater # 5-Heater	21.5	14.8	14.8	14.8	
Heater # 5-Heater	20.2	13.5	13.5	13.5	
Heater H 601	25.0	18.3	18.3	18.3	
Hydro Heater H-402	36.5	29.9	29.9	29.9	
ID Fan	51.2	44.5	44.5	44.5	
ID Fan 200 HP Motor	39.5	32.8	32.8	32.8	
Incinirator Compressor & Motor	26.0	19.3	19.3	19.3	
Incinirator Fin Fan	29.5	22.8	22.8	22.8	
xxxx xxxx xxxx xxxx	35.2	33.7	32.0	26.1	
xxxx xxxx xxxx xxxx	35.1	33.5	31.8	25.9	
Lub Oil Cooler XF-061	37.8	31.2	31.2	31.2	
Misc pumps motors	42.6	35.9	35.9	35.9	
Motor & Pump P - 1502 Splitter Reflux Pu	30.3	23.6	23.6	23.6	
Motor & Pump P - 1503 Splitter Bottoms P	31.5	24.9	24.9	24.9	
Motor & Pump P - 1504 Splitter Bottoms P	31.1	24.4	24.4	24.4	
Motor & Pump P - 1507 Reactor Pump	30.9	24.2	24.2	24.2	
Motor & Pump P - 1508 Reactor Pump	30.8	24.1	24.1	24.1	
Motor & Pump P - 1511 Stabilizer Reflux	30.6	23.9	23.9	23.9	
Motor & Pump P - 1512 Stabilizer Reflux	31.2	24.5	24.5	24.5	
Motor & Pump P - 1513 Caustic Circulatin	30.6	24.0	24.0	24.0	
Motor & Pump P - 1514 Caustic Circulatin	31.8	25.1	25.1	25.1	
Motor & Pump P 120/121	34.5	27.9	27.9	27.9	
Motor & Pump P 1505 FRESH FEED PUMPS	31.3	24.7	24.7	24.7	
Motor & Pump P 1506 FRESH FEED PUMPS	30.4	23.8	23.8	23.8	
Motor & Pump P 1509 Chloride Injection P	32.4	25.7	25.7	25.7	
Motor & Pump P 1510 Chloride Injection P	32.8	26.1	26.1	26.1	
Motor & Pump P 1601 A	31.4	24.8	24.8	24.8	
Motor & Pump P 1601 B	31.9	25.2	25.2	25.2	
Motor & Pump P 1602 A	32.6	25.9	25.9	25.9	
Motor & Pump P 1602 B	35.9	29.2	29.2	29.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 211/212	26.3	19.6	19.6	19.6	
Motor & Pump P 215/214	26.5	19.8	19.8	19.8	
Motor & Pump P 216	29.0	22.3	22.3	22.3	
Motor & Pump P 217/218	27.4	20.7	20.7	20.7	
Motor & Pump P 300	41.5	34.8	34.8	34.8	
Motor & Pump P 301	46.5	39.8	39.8	39.8	
Motor & Pump P 302	41.7	35.1	35.1	35.1	
Motor & Pump P 303	41.9	35.3	35.3	35.3	
Motor & Pump P 305	38.9	32.2	32.2	32.2	
Motor & Pump P 306	49.1	42.4	42.4	42.4	
Motor & Pump P 307	51.6	44.9	44.9	44.9	
Motor & Pump P 309	37.6	30.9	30.9	30.9	
Motor & Pump P 312	34.8	28.1	28.1	28.1	
Motor & Pump P 313	35.4	28.8	28.8	28.8	
Motor & Pump P 315	35.4	28.8	28.8	28.8	
Motor & Pump P 316	35.7	29.0	29.0	29.0	
Motor & Pump P 317	36.1	29.4	29.4	29.4	
Motor & Pump P 318	32.9	26.2	26.2	26.2	
Motor & Pump P 319	35.0	28.4	28.4	28.4	
Motor & Pump P 327	52.0	45.3	45.3	45.3	
Motor & Pump P 328	52.3	45.6	45.6	45.6	
Motor & Pump P 329	51.9	45.3	45.3	45.3	
Motor & Pump P 451	26.8	20.2	20.2	20.2	
Motor & Pump P 453	25.1	18.4	18.4	18.4	
Motor & Pump P 454	26.0	19.4	19.4	19.4	
Motor & Pump P 457	25.0	18.4	18.4	18.4	
Motor & Pump P 458	26.8	20.2	20.2	20.2	
Motor & Pump P 459	25.5	18.9	18.9	18.9	
Motor & Pump P 56A/B	28.2	21.5	21.5	21.5	
P602 100 HP	23.1	16.4	16.4	16.4	
P603 60 HP	23.7	17.1	17.1	17.1	
P605 40 HP	23.6	17.0	17.0	17.0	
P607 15 HP	19.4	12.7	12.7	12.7	
P608 15 HP	19.3	12.6	12.6	12.6	
P611 15 HP	19.6	13.0	13.0	13.0	
P614/615 20 HP	28.1	21.4	21.4	21.4	
Rail Cars Bumping 6 times in during delivery	28.1	31.1			
Scanner Blower C-084A/B	24.1	17.5	17.5	17.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	8.7	2.1	2.1	2.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	6.5	-0.2	-0.2	-0.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	6.3	-0.4	-0.4	-0.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	6.6	-0.1	-0.1	-0.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	6.0	-0.7	-0.7	-0.7	
Solar Turbine T70 Boiler-Boiler East 1	14.7	8.1	8.1	8.1	
Solar Turbine T70 Boiler-Boiler East 2	19.5	12.8	12.8	12.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Boiler-Boiler North 1	30.6	23.9	23.9	23.9	
Solar Turbine T70 Boiler-Boiler North 2	22.1	15.4	15.4	15.4	
Solar Turbine T70 Boiler-Boiler Roof	29.5	22.8	22.8	22.8	
Solar Turbine T70 Boiler-Boiler South	24.6	17.9	17.9	17.9	
Solar Turbine T70 Boiler-Boiler South 2	15.8	9.1	9.1	9.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	30.3	23.6	23.6	23.6	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	41.4	34.8	34.8	34.8	
Solar Turbine T70 Enclosure-T70 Encl. Roof	40.3	33.7	33.7	33.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	35.8	29.1	29.1	29.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	31.7	25.1	25.1	25.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	22.7	16.0	16.0	16.0	
Solar Turbine T70 SCR-SCR Unit Roof	21.1	14.4	14.4	14.4	
Solar Turbine T70 SCR-SCR Unit NE	16.2	9.5	9.5	9.5	
Solar Turbine T70 SCR-SCR Unit North	19.2	12.5	12.5	12.5	
Solar Turbine T70 SCR-SCR Unit NW	9.3	2.6	2.6	2.6	
Solar Turbine T70 SCR-SCR Unit SE	10.1	3.4	3.4	3.4	
Solar Turbine T70 SCR-SCR Unit South	13.6	6.9	6.9	6.9	
Solar Turbine T70 SCR-SCR Unit SW	6.6	0.0	0.0	0.0	
xxxx xxxx xxxx xxxx	24.2	22.7	21.0	15.1	
xxxx xxxx xxxx xxxx	24.9	23.4	21.7	15.8	
Tank Farm Pump 1	27.3	20.6	20.6	20.6	
Tank Farm Pump 2	34.3	27.6	27.6	27.6	
Tank Farm Pump 3	34.7	28.1	28.1	28.1	
UP Train Locomotive Delivery and Pickup	27.0	30.0			
Vaporizer Blower 1	25.6	18.9	18.9	18.9	
Vaporizer Blower 2	26.2	19.6	19.6	19.6	
Vaporizer Inlet Silencer	16.0	9.3	9.3	9.3	
Vaporizer Motor 1	19.7	13.1	13.1	13.1	
Vaporizer Motor 2	20.5	13.8	13.8	13.8	
Water Treatment Pumps P-056A&B	21.7	15.0	15.0	15.0	
XF-1502 Splitter Area 1	36.5	29.8	29.8	29.8	
XF-1502 Splitter Area 2	35.6	28.9	28.9	28.9	
XF-1504 Splitter Area 1	36.0	29.3	29.3	29.3	
XF-1504 Splitter Area 2	35.8	29.1	29.1	29.1	
XF - 1601	35.2	28.6	28.6	28.6	
XF - 1602	38.6	31.9	31.9	31.9	
XF 304, XF 321	55.1	48.4	48.4	48.4	
XF 313, XF 314	55.2	48.5	48.5	48.5	
XF 335-1, XF 335-2	57.0	50.3	50.3	50.3	
XF 503	44.7	38.0	38.0	38.0	
XF Module 1510	41.7	35.0	35.0	35.0	
XF Module 1519	42.5	35.8	35.8	35.8	
Receiver MH-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 55.8 dB(A) Ld 7-19 dB(A) Leq,N 55.7 dB(A) Le 19-					

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
2.8-Open Intake	43.8	37.1	37.1	37.1	
2011 Track Mobile switch moving rail cars 33 cars per day	29.0	32.0			
Air Compressor C 1	45.0	38.3	38.3	38.3	
Air Compressor Pump, Motor Fan CMXF -055	31.4	24.8	24.8	24.8	
Asphalt Production	42.3	35.6	35.6	35.6	
BFW Pumps P-073A&B	28.3	21.6	21.6	21.6	
Blower F 401	46.0	39.3	39.3	39.3	
Boiler Crude Unit-Heater Opening	26.7	20.0	20.0	20.0	
Brine Transfer P-085	26.8	20.2	20.2	20.2	
Burner H301 North	48.9	42.2	42.2	42.2	
Burner H301 South	39.5	32.8	32.8	32.8	
Burner H302 North	49.0	42.4	42.4	42.4	
Burner H302 South	36.9	30.2	30.2	30.2	
Burner H303 North	34.0	27.4	27.4	27.4	
Burner H303 South	30.2	23.5	23.5	23.5	
Burner H304 North	31.8	25.1	25.1	25.1	
Burner H304 South	29.8	23.1	23.1	23.1	
Burner H305 North	40.4	33.7	33.7	33.7	
Burner H305 South	27.8	21.1	21.1	21.1	
Burner H306 North	40.1	33.4	33.4	33.4	
Burner H306 South	28.9	22.2	22.2	22.2	
Compressor House C301, C302, C 124-Comp House East 1	39.2	32.6	32.6	32.6	
Compressor House C301, C302, C 124-Comp House East 2	38.5	31.8	31.8	31.8	
Compressor House C301, C302, C 124-Comp House North	45.3	38.7	38.7	38.7	
Compressor House C301, C302, C 124-Comp House South 1	32.5	25.8	25.8	25.8	
Compressor House C301, C302, C 124-Comp House South 2	25.8	19.1	19.1	19.1	
Compressor House C301, C302, C 124-Comp House West	21.7	15.0	15.0	15.0	
Cooling Tower CT 510-CT 510 East Side	41.1	34.4	34.4	34.4	
Cooling Tower CT 510-CT 510 West Side	21.9	15.2	15.2	15.2	
Cooling Tower CT 511-CT 511 East Side	42.8	36.1	36.1	36.1	
Cooling Tower CT 511-CT 511 West Side	28.1	21.4	21.4	21.4	
Cooling Tower M 512	25.6	18.9	18.9	18.9	
Cooling Tower M 513	25.7	19.0	19.0	19.0	
Cooling Tower M 514	25.3	18.7	18.7	18.7	
Crude Plant Operation 80 dB/m^2 at 1 m	41.4	34.7	34.7	34.7	
xxxx xxxx xxxx xxxx	35.8	29.1	29.1	29.1	
xxxx xxxx xxxx xxxx	46.2	39.5	39.5	39.5	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	42.6	35.9	35.9	35.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	38.9	32.0	34.3	32.0	
CT Y-600-CT Y-600 North	29.3	22.6	22.6	22.6	
CT Y-600-CT Y-600 South	25.2	18.5	18.5	18.5	
Deaerator Skid P-058A&B	41.5	34.8	34.8	34.8	
xxxx xxxx xxxx xxxx	36.3	34.8	33.1	27.2	
xxxx xxxx xxxx xxxx	36.3	34.8	33.0	27.1	
Exhaust Stack	51.1	44.5	44.5	44.5	
F.G. After Cooler XF-083ABC	40.3	33.7	33.7	33.7	
Fan Y-600	33.8	27.1	27.1	27.1	
FG Compressor Enclosure-FG Enclosure Roof	27.0	20.4	20.4	20.4	
FG Compressor Enclosure-FG Enclosure East	15.5	8.9	8.9	8.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	1.6	-5.1	-5.1	-5.1	
FG Compressor Enclosure-FG Enclosure North	27.1	20.4	20.4	20.4	
FG Compressor Enclosure-FG Enclosure South	11.3	4.6	4.6	4.6	
FG Compressor Enclosure-FG Enclosure West	26.6	20.0	20.0	20.0	
FG Compressor Enclosure-FG Enclosure West Louver 3	12.5	5.8	5.8	5.8	
Fin Fan XF 616 - Above	17.3	10.6	10.6	10.6	
Fin Fan XF 616 - Below	31.1	24.5	24.5	24.5	
Fin Fan XF 617 - Above	14.1	7.4	7.4	7.4	
Fin Fan XF 617 - Below	27.1	20.4	20.4	20.4	
Heater # 5-Heater	22.2	15.5	15.5	15.5	
Heater # 5-Heater	21.1	14.5	14.5	14.5	
Heater # 5-Heater	19.8	13.2	13.2	13.2	
Heater H 601	22.0	15.3	15.3	15.3	
Hydro Heater H-402	36.5	29.8	29.8	29.8	
ID Fan	44.4	37.7	37.7	37.7	
ID Fan 200 HP Motor	35.6	28.9	28.9	28.9	
Incinirator Compressor & Motor	26.2	19.6	19.6	19.6	
Incinirator Fin Fan	29.1	22.4	22.4	22.4	
xxxx xxxx xxxx xxxx	34.9	33.4	31.6	25.7	
xxxx xxxx xxxx xxxx	34.8	33.3	31.6	25.7	
Lub Oil Cooler XF-061	37.4	30.7	30.7	30.7	
Misc pumps motors	32.4	25.8	25.8	25.8	
Motor & Pump P - 1502 Splitter Reflux Pu	34.5	27.8	27.8	27.8	
Motor & Pump P - 1503 Splitter Bottoms P	33.6	26.9	26.9	26.9	
Motor & Pump P - 1504 Splitter Bottoms P	33.0	26.3	26.3	26.3	
Motor & Pump P - 1507 Reactor Pump	31.9	25.2	25.2	25.2	
Motor & Pump P - 1508 Reactor Pump	31.6	25.0	25.0	25.0	
Motor & Pump P - 1511 Stabilizer Reflux	34.8	28.2	28.2	28.2	
Motor & Pump P - 1512 Stabilizer Reflux	33.7	27.0	27.0	27.0	
Motor & Pump P - 1513 Caustic Circulatin	31.6	24.9	24.9	24.9	
Motor & Pump P - 1514 Caustic Circulatin	32.7	26.0	26.0	26.0	
Motor & Pump P 120/121	30.6	24.0	24.0	24.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1505 FRESH FEED PUMPS	31.5	24.8	24.8	24.8	
Motor & Pump P 1506 FRESH FEED PUMPS	31.4	24.8	24.8	24.8	
Motor & Pump P 1509 Chloride Injection P	33.8	27.1	27.1	27.1	
Motor & Pump P 1510 Chloride Injection P	33.9	27.2	27.2	27.2	
Motor & Pump P 1601 A	34.4	27.7	27.7	27.7	
Motor & Pump P 1601 B	34.4	27.7	27.7	27.7	
Motor & Pump P 1602 A	34.1	27.4	27.4	27.4	
Motor & Pump P 1602 B	34.1	27.5	27.5	27.5	
Motor & Pump P 211/212	25.1	18.5	18.5	18.5	
Motor & Pump P 215/214	26.8	20.1	20.1	20.1	
Motor & Pump P 216	29.3	22.7	22.7	22.7	
Motor & Pump P 217/218	25.2	18.5	18.5	18.5	
Motor & Pump P 300	32.3	25.6	25.6	25.6	
Motor & Pump P 301	39.1	32.5	32.5	32.5	
Motor & Pump P 302	32.7	26.1	26.1	26.1	
Motor & Pump P 303	33.7	27.0	27.0	27.0	
Motor & Pump P 305	31.5	24.8	24.8	24.8	
Motor & Pump P 306	51.7	45.0	45.0	45.0	
Motor & Pump P 307	38.4	31.7	31.7	31.7	
Motor & Pump P 309	30.6	23.9	23.9	23.9	
Motor & Pump P 312	39.3	32.6	32.6	32.6	
Motor & Pump P 313	34.0	27.3	27.3	27.3	
Motor & Pump P 315	34.0	27.3	27.3	27.3	
Motor & Pump P 316	33.9	27.2	27.2	27.2	
Motor & Pump P 317	34.1	27.5	27.5	27.5	
Motor & Pump P 318	31.8	25.1	25.1	25.1	
Motor & Pump P 319	33.0	26.4	26.4	26.4	
Motor & Pump P 327	50.4	43.8	43.8	43.8	
Motor & Pump P 328	43.3	36.6	36.6	36.6	
Motor & Pump P 329	47.2	40.6	40.6	40.6	
Motor & Pump P 451	29.6	23.0	23.0	23.0	
Motor & Pump P 453	23.6	17.0	17.0	17.0	
Motor & Pump P 454	29.0	22.4	22.4	22.4	
Motor & Pump P 457	24.1	17.4	17.4	17.4	
Motor & Pump P 458	31.5	24.8	24.8	24.8	
Motor & Pump P 459	29.1	22.4	22.4	22.4	
Motor & Pump P 56A/B	26.2	19.5	19.5	19.5	
P602 100 HP	21.8	15.1	15.1	15.1	
P603 60 HP	21.5	14.8	14.8	14.8	
P605 40 HP	21.4	14.8	14.8	14.8	
P607 15 HP	18.4	11.8	11.8	11.8	
P608 15 HP	19.0	12.3	12.3	12.3	
P611 15 HP	17.7	11.0	11.0	11.0	
P614/615 20 HP	22.0	15.4	15.4	15.4	
Rail Cars Bumping 6 times in during delivery	28.6	31.6			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Scanner Blower C-084A/B	24.0	17.3	17.3	17.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	13.1	6.4	6.4	6.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	11.7	5.1	5.1	5.1	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	12.0	5.3	5.3	5.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	8.5	1.9	1.9	1.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	8.8	2.1	2.1	2.1	
Solar Turbine T70 Boiler-Boiler East 1	13.9	7.2	7.2	7.2	
Solar Turbine T70 Boiler-Boiler East 2	20.8	14.1	14.1	14.1	
Solar Turbine T70 Boiler-Boiler North 1	32.7	26.0	26.0	26.0	
Solar Turbine T70 Boiler-Boiler North 2	22.2	15.5	15.5	15.5	
Solar Turbine T70 Boiler-Boiler Roof	30.5	23.8	23.8	23.8	
Solar Turbine T70 Boiler-Boiler South	25.3	18.6	18.6	18.6	
Solar Turbine T70 Boiler-Boiler South 2	15.7	9.0	9.0	9.0	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	33.7	27.0	27.0	27.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	41.1	34.4	34.4	34.4	
Solar Turbine T70 Enclosure-T70 Encl. Roof	39.9	33.2	33.2	33.2	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	35.6	28.9	28.9	28.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	24.4	17.7	17.7	17.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	24.5	17.8	17.8	17.8	
Solar Turbine T70 SCR-SCR Unit Roof	22.6	15.9	15.9	15.9	
Solar Turbine T70 SCR-SCR Unit NE	16.1	9.4	9.4	9.4	
Solar Turbine T70 SCR-SCR Unit North	20.0	13.3	13.3	13.3	
Solar Turbine T70 SCR-SCR Unit NW	14.2	7.5	7.5	7.5	
Solar Turbine T70 SCR-SCR Unit SE	9.9	3.3	3.3	3.3	
Solar Turbine T70 SCR-SCR Unit South	14.2	7.6	7.6	7.6	
Solar Turbine T70 SCR-SCR Unit SW	8.6	1.9	1.9	1.9	
xxxx xxxx xxxx xxxx	23.5	22.0	20.3	14.3	
xxxx xxxx xxxx xxxx	24.0	22.5	20.8	14.9	
Tank Farm Pump 1	33.1	26.4	26.4	26.4	
Tank Farm Pump 2	35.0	28.3	28.3	28.3	
Tank Farm Pump 3	36.1	29.4	29.4	29.4	
UP Train Locomotive Delivery and Pickup	27.5	30.5			
Vaporizer Blower 1	28.6	21.9	21.9	21.9	
Vaporizer Blower 2	28.6	21.9	21.9	21.9	
Vaporizer Inlet Silencer	15.9	9.3	9.3	9.3	
Vaporizer Motor 1	22.8	16.1	16.1	16.1	
Vaporizer Motor 2	22.8	16.1	16.1	16.1	
Water Treatment Pumps P-056A&B	23.0	16.3	16.3	16.3	
XF-1502 Splitter Area 1	39.0	32.3	32.3	32.3	
XF-1502 Splitter Area 2	39.9	33.2	33.2	33.2	
XF-1504 Splitter Area 1	35.7	29.0	29.0	29.0	
XF-1504 Splitter Area 2	35.7	29.0	29.0	29.0	
XF - 1601	39.5	32.8	32.8	32.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF - 1602	38.1	31.4	31.4	31.4	
XF 304, XF 321	44.2	37.5	37.5	37.5	
XF 313, XF 314	54.2	47.6	47.6	47.6	
XF 335-1, XF 335-2	52.3	45.6	45.6	45.6	
XF 503	43.5	36.9	36.9	36.9	
XF Module 1510	42.0	35.4	35.4	35.4	
XF Module 1519	41.8	35.1	35.1	35.1	
Receiver MH-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 55.5 dB(A)	Ld 7-19 dB(A)	Leq,N 55.4 dB(A)	Le 19-
2.8-Open Intake	38.6	31.9	31.9	31.9	
2011 Track Mobile switch moving rail cars 33 cars per day	29.3	32.3			
Air Compressor C 1	44.4	37.7	37.7	37.7	
Air Compressor Pump, Motor Fan CMXF -055	26.9	20.3	20.3	20.3	
Asphalt Production	42.4	35.7	35.7	35.7	
BFW Pumps P-073A&B	23.7	17.0	17.0	17.0	
Blower F 401	50.2	43.5	43.5	43.5	
Boiler Crude Unit-Heater Opening	28.8	22.2	22.2	22.2	
Brine Transfer P-085	24.4	17.8	17.8	17.8	
Burner H301 North	48.0	41.3	41.3	41.3	
Burner H301 South	39.5	32.8	32.8	32.8	
Burner H302 North	47.9	41.2	41.2	41.2	
Burner H302 South	32.5	25.8	25.8	25.8	
Burner H303 North	31.9	25.2	25.2	25.2	
Burner H303 South	29.6	22.9	22.9	22.9	
Burner H304 North	31.8	25.1	25.1	25.1	
Burner H304 South	28.4	21.7	21.7	21.7	
Burner H305 North	32.8	26.1	26.1	26.1	
Burner H305 South	27.6	20.9	20.9	20.9	
Burner H306 North	33.6	27.0	27.0	27.0	
Burner H306 South	27.1	20.5	20.5	20.5	
Compressor House C301, C302, C 124-Comp House East 1	38.7	32.0	32.0	32.0	
Compressor House C301, C302, C 124-Comp House East 2	34.2	27.5	27.5	27.5	
Compressor House C301, C302, C 124-Comp House North	43.7	37.0	37.0	37.0	
Compressor House C301, C302, C 124-Comp House South 1	32.6	26.0	26.0	26.0	
Compressor House C301, C302, C 124-Comp House South 2	25.8	19.1	19.1	19.1	
Compressor House C301, C302, C 124-Comp House West	22.2	15.5	15.5	15.5	
Cooling Tower CT 510-CT 510 East Side	39.1	32.5	32.5	32.5	
Cooling Tower CT 510-CT 510 West Side	22.3	15.7	15.7	15.7	
Cooling Tower CT 511-CT 511 East Side	48.3	41.7	41.7	41.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 West Side	27.7	21.1	21.1	21.1	
Cooling Tower M 512	25.5	18.8	18.8	18.8	
Cooling Tower M 513	25.2	18.6	18.6	18.6	
Cooling Tower M 514	25.6	18.9	18.9	18.9	
Crude Plant Operation 80 dB/m^2 at 1 m	50.2	43.5	43.5	43.5	
xxxx xxxx xxxx xxxx	34.4	27.7	27.7	27.7	
xxxx xxxx xxxx xxxx	46.5	39.8	39.8	39.8	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	52.2	45.5	45.5	45.5	
xxxx xxxx xxxx xxxx	43.3	36.4	38.8	36.4	
CT Y-600-CT Y-600 North	30.9	24.2	24.2	24.2	
CT Y-600-CT Y-600 South	25.2	18.6	18.6	18.6	
Deaerator Skid P-058A&B	29.5	22.8	22.8	22.8	
xxxx xxxx xxxx xxxx	35.8	34.3	32.6	26.7	
xxxx xxxx xxxx xxxx	35.7	34.2	32.5	26.6	
Exhaust Stack	50.9	44.2	44.2	44.2	
F.G. After Cooler XF-083ABC	31.8	25.1	25.1	25.1	
Fan Y-600	33.8	27.1	27.1	27.1	
FG Compressor Enclosure-FG Enclosure Roof	20.3	13.6	13.6	13.6	
FG Compressor Enclosure-FG Enclosure East	18.3	11.7	11.7	11.7	
FG Compressor Enclosure-FG Enclosure East Louver 1	3.1	-3.5	-3.5	-3.5	
FG Compressor Enclosure-FG Enclosure North	21.4	14.7	14.7	14.7	
FG Compressor Enclosure-FG Enclosure South	8.7	2.0	2.0	2.0	
FG Compressor Enclosure-FG Enclosure West	15.3	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.6	-5.1	-5.1	-5.1	
Fin Fan XF 616 - Above	20.2	13.6	13.6	13.6	
Fin Fan XF 616 - Below	34.5	27.8	27.8	27.8	
Fin Fan XF 617 - Above	17.9	11.2	11.2	11.2	
Fin Fan XF 617 - Below	31.4	24.7	24.7	24.7	
Heater # 5-Heater	22.9	16.2	16.2	16.2	
Heater # 5-Heater	22.1	15.4	15.4	15.4	
Heater # 5-Heater	20.7	14.1	14.1	14.1	
Heater H 601	21.9	15.3	15.3	15.3	
Hydro Heater H-402	36.0	29.3	29.3	29.3	
ID Fan	41.1	34.4	34.4	34.4	
ID Fan 200 HP Motor	33.6	26.9	26.9	26.9	
Incinirator Compressor & Motor	35.6	28.9	28.9	28.9	
Incinirator Fin Fan	36.6	29.9	29.9	29.9	
xxxx xxxx xxxx xxxx	34.0	32.5	30.8	24.9	
xxxx xxxx xxxx xxxx	34.0	32.5	30.8	24.8	
Lub Oil Cooler XF-061	34.5	27.8	27.8	27.8	
Misc pumps motors	30.9	24.2	24.2	24.2	
Motor & Pump P - 1502 Splitter Reflux Pu	29.2	22.6	22.6	22.6	
Motor & Pump P - 1503 Splitter Bottoms P	31.3	24.6	24.6	24.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	31.5	24.9	24.9	24.9	
Motor & Pump P - 1507 Reactor Pump	30.5	23.8	23.8	23.8	
Motor & Pump P - 1508 Reactor Pump	28.4	21.7	21.7	21.7	
Motor & Pump P - 1511 Stabilizer Reflux	32.2	25.5	25.5	25.5	
Motor & Pump P - 1512 Stabilizer Reflux	32.2	25.5	25.5	25.5	
Motor & Pump P - 1513 Caustic Circulatin	30.0	23.4	23.4	23.4	
Motor & Pump P - 1514 Caustic Circulatin	30.3	23.7	23.7	23.7	
Motor & Pump P 120/121	29.6	22.9	22.9	22.9	
Motor & Pump P 1505 FRESH FEED PUMPS	31.3	24.6	24.6	24.6	
Motor & Pump P 1506 FRESH FEED PUMPS	31.4	24.8	24.8	24.8	
Motor & Pump P 1509 Chloride Injection P	27.6	21.0	21.0	21.0	
Motor & Pump P 1510 Chloride Injection P	26.2	19.6	19.6	19.6	
Motor & Pump P 1601 A	30.2	23.5	23.5	23.5	
Motor & Pump P 1601 B	30.2	23.6	23.6	23.6	
Motor & Pump P 1602 A	31.2	24.5	24.5	24.5	
Motor & Pump P 1602 B	31.6	24.9	24.9	24.9	
Motor & Pump P 211/212	23.8	17.1	17.1	17.1	
Motor & Pump P 215/214	24.5	17.8	17.8	17.8	
Motor & Pump P 216	28.2	21.5	21.5	21.5	
Motor & Pump P 217/218	23.3	16.6	16.6	16.6	
Motor & Pump P 300	32.1	25.4	25.4	25.4	
Motor & Pump P 301	36.1	29.4	29.4	29.4	
Motor & Pump P 302	32.4	25.7	25.7	25.7	
Motor & Pump P 303	32.0	25.3	25.3	25.3	
Motor & Pump P 305	30.1	23.4	23.4	23.4	
Motor & Pump P 306	50.2	43.5	43.5	43.5	
Motor & Pump P 307	36.5	29.9	29.9	29.9	
Motor & Pump P 309	28.2	21.5	21.5	21.5	
Motor & Pump P 312	34.3	27.6	27.6	27.6	
Motor & Pump P 313	35.0	28.3	28.3	28.3	
Motor & Pump P 315	33.9	27.2	27.2	27.2	
Motor & Pump P 316	33.4	26.7	26.7	26.7	
Motor & Pump P 317	33.5	26.9	26.9	26.9	
Motor & Pump P 318	32.9	26.3	26.3	26.3	
Motor & Pump P 319	33.0	26.3	26.3	26.3	
Motor & Pump P 327	42.5	35.9	35.9	35.9	
Motor & Pump P 328	40.4	33.7	33.7	33.7	
Motor & Pump P 329	42.6	36.0	36.0	36.0	
Motor & Pump P 451	25.4	18.7	18.7	18.7	
Motor & Pump P 453	23.9	17.2	17.2	17.2	
Motor & Pump P 454	26.9	20.3	20.3	20.3	
Motor & Pump P 457	23.9	17.2	17.2	17.2	
Motor & Pump P 458	25.4	18.7	18.7	18.7	
Motor & Pump P 459	27.0	20.3	20.3	20.3	
Motor & Pump P 56A/B	24.0	17.3	17.3	17.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P602 100 HP	23.5	16.8	16.8	16.8	
P603 60 HP	21.2	14.5	14.5	14.5	
P605 40 HP	21.3	14.7	14.7	14.7	
P607 15 HP	18.7	12.0	12.0	12.0	
P608 15 HP	18.8	12.1	12.1	12.1	
P611 15 HP	18.1	11.5	11.5	11.5	
P614/615 20 HP	22.4	15.7	15.7	15.7	
Rail Cars Bumping 6 times in during delivery	28.0	31.0			
Scanner Blower C-084A/B	22.9	16.2	16.2	16.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	10.2	3.5	3.5	3.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	13.7	7.0	7.0	7.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	10.2	3.6	3.6	3.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	5.9	-0.8	-0.8	-0.8	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	8.0	1.4	1.4	1.4	
Solar Turbine T70 Boiler-Boiler East 1	12.0	5.4	5.4	5.4	
Solar Turbine T70 Boiler-Boiler East 2	14.6	7.9	7.9	7.9	
Solar Turbine T70 Boiler-Boiler North 1	24.6	18.0	18.0	18.0	
Solar Turbine T70 Boiler-Boiler North 2	16.0	9.3	9.3	9.3	
Solar Turbine T70 Boiler-Boiler Roof	21.1	14.5	14.5	14.5	
Solar Turbine T70 Boiler-Boiler South	21.8	15.1	15.1	15.1	
Solar Turbine T70 Boiler-Boiler South 2	13.1	6.4	6.4	6.4	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	29.5	22.8	22.8	22.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	34.8	28.1	28.1	28.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	31.5	24.9	24.9	24.9	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	33.0	26.3	26.3	26.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	21.9	15.2	15.2	15.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.8	15.2	15.2	15.2	
Solar Turbine T70 SCR-SCR Unit Roof	15.2	8.5	8.5	8.5	
Solar Turbine T70 SCR-SCR Unit NE	7.9	1.2	1.2	1.2	
Solar Turbine T70 SCR-SCR Unit North	14.2	7.5	7.5	7.5	
Solar Turbine T70 SCR-SCR Unit NW	9.0	2.3	2.3	2.3	
Solar Turbine T70 SCR-SCR Unit SE	5.9	-0.8	-0.8	-0.8	
Solar Turbine T70 SCR-SCR Unit South	11.3	4.7	4.7	4.7	
Solar Turbine T70 SCR-SCR Unit SW	6.1	-0.6	-0.6	-0.6	
xxxx xxxx xxxx xxxx	27.1	25.5	23.8	17.9	
xxxx xxxx xxxx xxxx	26.9	25.4	23.7	17.8	
Tank Farm Pump 1	33.8	27.1	27.1	27.1	
Tank Farm Pump 2	31.2	24.5	24.5	24.5	
Tank Farm Pump 3	31.3	24.7	24.7	24.7	
UP Train Locomotive Delivery and Pickup	27.0	30.0			
Vaporizer Blower 1	20.3	13.7	13.7	13.7	
Vaporizer Blower 2	21.0	14.3	14.3	14.3	
Vaporizer Inlet Silencer	9.7	3.0	3.0	3.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Vaporizer Motor 1	15.2	8.6	8.6	8.6	
Vaporizer Motor 2	15.3	8.7	8.7	8.7	
Water Treatment Pumps P-056A&B	20.7	14.0	14.0	14.0	
XF-1502 Splitter Area 1	41.4	34.8	34.8	34.8	
XF-1502 Splitter Area 2	41.1	34.5	34.5	34.5	
XF-1504 Splitter Area 1	40.8	34.1	34.1	34.1	
XF-1504 Splitter Area 2	41.0	34.3	34.3	34.3	
XF - 1601	41.2	34.5	34.5	34.5	
XF - 1602	40.2	33.6	33.6	33.6	
XF 304, XF 321	43.5	36.8	36.8	36.8	
XF 313, XF 314	53.4	46.7	46.7	46.7	
XF 335-1, XF 335-2	45.8	39.2	39.2	39.2	
XF 503	45.8	39.2	39.2	39.2	
XF Module 1510	44.5	37.8	37.8	37.8	
XF Module 1519	45.4	38.8	38.8	38.8	
Receiver MH-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 56.7 dB(A) Ld 7-19 dB(A) Leq,N 56.6 dB(A) Le 19-					
2.8-Open Intake	36.5	29.8	29.8	29.8	
2011 Track Mobile switch moving rail cars 33 cars per day	24.7	27.7			
Air Compressor C 1	43.2	36.6	36.6	36.6	
Air Compressor Pump, Motor Fan CMXF -055	26.3	19.7	19.7	19.7	
Asphalt Production	48.1	41.5	41.5	41.5	
BFW Pumps P-073A&B	23.2	16.5	16.5	16.5	
Blower F 401	48.2	41.5	41.5	41.5	
Boiler Crude Unit-Heater Opening	37.2	30.6	30.6	30.6	
Brine Transfer P-085	24.1	17.4	17.4	17.4	
Burner H301 North	46.9	40.2	40.2	40.2	
Burner H301 South	38.7	32.1	32.1	32.1	
Burner H302 North	40.0	33.4	33.4	33.4	
Burner H302 South	28.0	21.3	21.3	21.3	
Burner H303 North	33.0	26.3	26.3	26.3	
Burner H303 South	29.3	22.6	22.6	22.6	
Burner H304 North	30.8	24.1	24.1	24.1	
Burner H304 South	28.6	21.9	21.9	21.9	
Burner H305 North	30.6	23.9	23.9	23.9	
Burner H305 South	26.9	20.2	20.2	20.2	
Burner H306 North	30.1	23.4	23.4	23.4	
Burner H306 South	25.9	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House East 1	37.5	30.9	30.9	30.9	
Compressor House C301, C302, C 124-Comp House East 2	34.1	27.4	27.4	27.4	
Compressor House C301, C302, C 124-Comp House North	45.0	38.4	38.4	38.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	31.9	25.2	25.2	25.2	
Compressor House C301, C302, C 124-Comp House South 2	26.1	19.5	19.5	19.5	
Compressor House C301, C302, C 124-Comp House West	21.2	14.5	14.5	14.5	
Cooling Tower CT 510-CT 510 East Side	39.1	32.5	32.5	32.5	
Cooling Tower CT 510-CT 510 West Side	23.1	16.4	16.4	16.4	
Cooling Tower CT 511-CT 511 East Side	52.2	45.5	45.5	45.5	
Cooling Tower CT 511-CT 511 West Side	26.1	19.5	19.5	19.5	
Cooling Tower M 512	26.4	19.8	19.8	19.8	
Cooling Tower M 513	26.1	19.4	19.4	19.4	
Cooling Tower M 514	26.9	20.2	20.2	20.2	
Crude Plant Operation 80 dB/m^2 at 1 m	55.5	48.8	48.8	48.8	
xxxx xxxx xxxx xxxx	34.3	27.6	27.6	27.6	
xxxx xxxx xxxx xxxx	47.5	40.8	40.8	40.8	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	56.5	49.8	49.8	49.8	
xxxx xxxx xxxx xxxx	47.4	40.5	42.9	40.5	
CT Y-600-CT Y-600 North	39.5	32.9	32.9	32.9	
CT Y-600-CT Y-600 South	29.3	22.6	22.6	22.6	
Deaerator Skid P-058A&B	24.8	18.1	18.1	18.1	
xxxx xxxx xxxx xxxx	34.2	32.7	31.0	25.1	
xxxx xxxx xxxx xxxx	34.2	32.7	31.0	25.0	
Exhaust Stack	40.2	33.5	33.5	33.5	
F.G. After Cooler XF-083ABC	31.8	25.2	25.2	25.2	
Fan Y-600	39.2	32.5	32.5	32.5	
FG Compressor Enclosure-FG Enclosure Roof	20.5	13.8	13.8	13.8	
FG Compressor Enclosure-FG Enclosure East	18.6	12.0	12.0	12.0	
FG Compressor Enclosure-FG Enclosure East Louver 1	5.0	-1.7	-1.7	-1.7	
FG Compressor Enclosure-FG Enclosure North	21.6	14.9	14.9	14.9	
FG Compressor Enclosure-FG Enclosure South	9.1	2.4	2.4	2.4	
FG Compressor Enclosure-FG Enclosure West	15.1	8.4	8.4	8.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.9	-4.8	-4.8	-4.8	
Fin Fan XF 616 - Above	29.8	23.1	23.1	23.1	
Fin Fan XF 616 - Below	45.0	38.3	38.3	38.3	
Fin Fan XF 617 - Above	26.8	20.1	20.1	20.1	
Fin Fan XF 617 - Below	41.1	34.4	34.4	34.4	
Heater # 5-Heater	30.1	23.4	23.4	23.4	
Heater # 5-Heater	29.0	22.4	22.4	22.4	
Heater # 5-Heater	26.9	20.2	20.2	20.2	
Heater H 601	33.6	26.9	26.9	26.9	
Hydro Heater H-402	35.6	28.9	28.9	28.9	
ID Fan	40.2	33.5	33.5	33.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan 200 HP Motor	33.0	26.3	26.3	26.3	
Incinirator Compressor & Motor	34.0	27.4	27.4	27.4	
Incinirator Fin Fan	36.0	29.3	29.3	29.3	
xxxx xxxx xxxx xxxx	35.1	33.6	31.9	26.0	
xxxx xxxx xxxx xxxx	35.1	33.6	31.8	25.9	
Lub Oil Cooler XF-061	34.6	27.9	27.9	27.9	
Misc pumps motors	31.7	25.0	25.0	25.0	
Motor & Pump P - 1502 Splitter Reflux Pu	27.6	20.9	20.9	20.9	
Motor & Pump P - 1503 Splitter Bottoms P	28.8	22.1	22.1	22.1	
Motor & Pump P - 1504 Splitter Bottoms P	31.5	24.8	24.8	24.8	
Motor & Pump P - 1507 Reactor Pump	31.2	24.5	24.5	24.5	
Motor & Pump P - 1508 Reactor Pump	29.4	22.8	22.8	22.8	
Motor & Pump P - 1511 Stabilizer Reflux	30.4	23.7	23.7	23.7	
Motor & Pump P - 1512 Stabilizer Reflux	32.5	25.9	25.9	25.9	
Motor & Pump P - 1513 Caustic Circulatin	28.9	22.3	22.3	22.3	
Motor & Pump P - 1514 Caustic Circulatin	30.7	24.1	24.1	24.1	
Motor & Pump P 120/121	31.1	24.5	24.5	24.5	
Motor & Pump P 1505 FRESH FEED PUMPS	31.3	24.7	24.7	24.7	
Motor & Pump P 1506 FRESH FEED PUMPS	31.2	24.6	24.6	24.6	
Motor & Pump P 1509 Chloride Injection P	25.0	18.3	18.3	18.3	
Motor & Pump P 1510 Chloride Injection P	25.0	18.4	18.4	18.4	
Motor & Pump P 1601 A	42.2	35.5	35.5	35.5	
Motor & Pump P 1601 B	42.2	35.6	35.6	35.6	
Motor & Pump P 1602 A	42.3	35.6	35.6	35.6	
Motor & Pump P 1602 B	42.3	35.7	35.7	35.7	
Motor & Pump P 211/212	23.8	17.1	17.1	17.1	
Motor & Pump P 215/214	26.9	20.3	20.3	20.3	
Motor & Pump P 216	29.0	22.3	22.3	22.3	
Motor & Pump P 217/218	23.0	16.3	16.3	16.3	
Motor & Pump P 300	31.2	24.6	24.6	24.6	
Motor & Pump P 301	37.7	31.0	31.0	31.0	
Motor & Pump P 302	30.5	23.9	23.9	23.9	
Motor & Pump P 303	30.5	23.9	23.9	23.9	
Motor & Pump P 305	29.8	23.1	23.1	23.1	
Motor & Pump P 306	49.9	43.2	43.2	43.2	
Motor & Pump P 307	36.8	30.1	30.1	30.1	
Motor & Pump P 309	28.9	22.2	22.2	22.2	
Motor & Pump P 312	33.2	26.5	26.5	26.5	
Motor & Pump P 313	32.0	25.4	25.4	25.4	
Motor & Pump P 315	33.4	26.7	26.7	26.7	
Motor & Pump P 316	33.1	26.4	26.4	26.4	
Motor & Pump P 317	33.3	26.7	26.7	26.7	
Motor & Pump P 318	31.9	25.2	25.2	25.2	
Motor & Pump P 319	32.0	25.3	25.3	25.3	
Motor & Pump P 327	41.7	35.0	35.0	35.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 328	40.2	33.6	33.6	33.6	
Motor & Pump P 329	40.2	33.5	33.5	33.5	
Motor & Pump P 451	22.2	15.5	15.5	15.5	
Motor & Pump P 453	23.0	16.3	16.3	16.3	
Motor & Pump P 454	25.1	18.4	18.4	18.4	
Motor & Pump P 457	24.1	17.5	17.5	17.5	
Motor & Pump P 458	22.3	15.6	15.6	15.6	
Motor & Pump P 459	25.2	18.5	18.5	18.5	
Motor & Pump P 56A/B	24.3	17.6	17.6	17.6	
P602 100 HP	37.8	31.1	31.1	31.1	
P603 60 HP	37.3	30.6	30.6	30.6	
P605 40 HP	37.2	30.6	30.6	30.6	
P607 15 HP	34.4	27.7	27.7	27.7	
P608 15 HP	34.4	27.7	27.7	27.7	
P611 15 HP	33.3	26.7	26.7	26.7	
P614/615 20 HP	38.3	31.7	31.7	31.7	
Rail Cars Bumping 6 times in during delivery	25.1	28.1			
Scanner Blower C-084A/B	22.7	16.0	16.0	16.0	
Solar Turbine T70 2nd Boiler-2nd Boiler North	7.1	0.4	0.4	0.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	5.4	-1.2	-1.2	-1.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	5.0	-1.7	-1.7	-1.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	4.8	-1.9	-1.9	-1.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	4.4	-2.3	-2.3	-2.3	
Solar Turbine T70 Boiler-Boiler East 1	11.8	5.2	5.2	5.2	
Solar Turbine T70 Boiler-Boiler East 2	14.2	7.5	7.5	7.5	
Solar Turbine T70 Boiler-Boiler North 1	24.1	17.4	17.4	17.4	
Solar Turbine T70 Boiler-Boiler North 2	15.6	8.9	8.9	8.9	
Solar Turbine T70 Boiler-Boiler Roof	20.4	13.7	13.7	13.7	
Solar Turbine T70 Boiler-Boiler South	21.5	14.8	14.8	14.8	
Solar Turbine T70 Boiler-Boiler South 2	12.9	6.2	6.2	6.2	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	29.1	22.5	22.5	22.5	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	34.8	28.2	28.2	28.2	
Solar Turbine T70 Enclosure-T70 Encl. Roof	32.4	25.7	25.7	25.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	32.9	26.3	26.3	26.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	23.6	16.9	16.9	16.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.9	15.2	15.2	15.2	
Solar Turbine T70 SCR-SCR Unit Roof	13.0	6.3	6.3	6.3	
Solar Turbine T70 SCR-SCR Unit NE	7.1	0.4	0.4	0.4	
Solar Turbine T70 SCR-SCR Unit North	13.2	6.6	6.6	6.6	
Solar Turbine T70 SCR-SCR Unit NW	7.8	1.1	1.1	1.1	
Solar Turbine T70 SCR-SCR Unit SE	5.5	-1.2	-1.2	-1.2	
Solar Turbine T70 SCR-SCR Unit South	10.7	4.0	4.0	4.0	
Solar Turbine T70 SCR-SCR Unit SW	5.2	-1.5	-1.5	-1.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	28.1	26.6	24.9	18.9	
xxxx xxxx xxxx xxxx	28.4	26.9	25.2	19.3	
Tank Farm Pump 1	35.7	29.0	29.0	29.0	
Tank Farm Pump 2	32.9	26.2	26.2	26.2	
Tank Farm Pump 3	34.3	27.6	27.6	27.6	
UP Train Locomotive Delivery and Pickup	25.8	28.8			
Vaporizer Blower 1	20.0	13.3	13.3	13.3	
Vaporizer Blower 2	20.6	14.0	14.0	14.0	
Vaporizer Inlet Silencer	9.3	2.6	2.6	2.6	
Vaporizer Motor 1	14.0	7.4	7.4	7.4	
Vaporizer Motor 2	14.9	8.2	8.2	8.2	
Water Treatment Pumps P-056A&B	20.2	13.5	13.5	13.5	
XF-1502 Splitter Area 1	43.8	37.1	37.1	37.1	
XF-1502 Splitter Area 2	45.6	39.0	39.0	39.0	
XF-1504 Splitter Area 1	46.0	39.4	39.4	39.4	
XF-1504 Splitter Area 2	37.2	30.5	30.5	30.5	
XF - 1601	40.0	33.4	33.4	33.4	
XF - 1602	41.1	34.4	34.4	34.4	
XF 304, XF 321	43.1	36.4	36.4	36.4	
XF 313, XF 314	43.0	36.3	36.3	36.3	
XF 335-1, XF 335-2	44.7	38.1	38.1	38.1	
XF 503	45.5	38.9	38.9	38.9	
XF Module 1510	48.0	41.3	41.3	41.3	
XF Module 1519	46.8	40.1	40.1	40.1	
Receiver MH-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 57.1 dB(A) Ld 7-19 dB(A) Leq,N 57.0 dB(A) Le 19-					
2.8-Open Intake	38.3	31.7	31.7	31.7	
2011 Track Mobile switch moving rail cars 33 cars per day	25.2	28.2			
Air Compressor C 1	42.7	36.1	36.1	36.1	
Air Compressor Pump, Motor Fan CMXF -055	26.5	19.8	19.8	19.8	
Asphalt Production	55.5	48.8	48.8	48.8	
BFW Pumps P-073A&B	23.2	16.5	16.5	16.5	
Blower F 401	45.1	38.4	38.4	38.4	
Boiler Crude Unit-Heater Opening	35.5	28.8	28.8	28.8	
Brine Transfer P-085	23.4	16.7	16.7	16.7	
Burner H301 North	45.0	38.3	38.3	38.3	
Burner H301 South	27.9	21.3	21.3	21.3	
Burner H302 North	37.3	30.6	30.6	30.6	
Burner H302 South	26.6	19.9	19.9	19.9	
Burner H303 North	30.8	24.1	24.1	24.1	
Burner H303 South	29.3	22.6	22.6	22.6	
Burner H304 North	31.3	24.6	24.6	24.6	
Burner H304 South	26.2	19.6	19.6	19.6	
Burner H305 North	30.3	23.6	23.6	23.6	
Burner H305 South	27.2	20.5	20.5	20.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H306 North	29.1	22.4	22.4	22.4	
Burner H306 South	25.8	19.1	19.1	19.1	
Compressor House C301, C302, C 124-Comp House East 1	39.6	33.0	33.0	33.0	
Compressor House C301, C302, C 124-Comp House East 2	35.2	28.6	28.6	28.6	
Compressor House C301, C302, C 124-Comp House North	44.9	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House South 1	32.5	25.9	25.9	25.9	
Compressor House C301, C302, C 124-Comp House South 2	28.7	22.0	22.0	22.0	
Compressor House C301, C302, C 124-Comp House West	20.2	13.5	13.5	13.5	
Cooling Tower CT 510-CT 510 East Side	35.8	29.1	29.1	29.1	
Cooling Tower CT 510-CT 510 West Side	24.7	18.1	18.1	18.1	
Cooling Tower CT 511-CT 511 East Side	40.0	33.3	33.3	33.3	
Cooling Tower CT 511-CT 511 West Side	26.8	20.1	20.1	20.1	
Cooling Tower M 512	23.6	16.9	16.9	16.9	
Cooling Tower M 513	23.4	16.7	16.7	16.7	
Cooling Tower M 514	23.6	16.9	16.9	16.9	
Crude Plant Operation 80 dB/m^2 at 1 m	55.5	48.8	48.8	48.8	
xxxx xxxx xxxx xxxx	39.8	33.1	33.1	33.1	
xxxx xxxx xxxx xxxx	47.7	41.0	41.0	41.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	55.7	49.0	49.0	49.0	
xxxx xxxx xxxx xxxx	48.3	41.4	43.8	41.4	
CT Y-600-CT Y-600 North	43.7	37.0	37.0	37.0	
CT Y-600-CT Y-600 South	30.8	24.1	24.1	24.1	
Deaerator Skid P-058A&B	25.4	18.7	18.7	18.7	
xxxx xxxx xxxx xxxx	33.2	31.7	30.0	24.1	
xxxx xxxx xxxx xxxx	33.0	31.4	29.7	23.8	
Exhaust Stack	40.2	33.5	33.5	33.5	
F.G. After Cooler XF-083ABC	33.4	26.8	26.8	26.8	
Fan Y-600	46.1	39.4	39.4	39.4	
FG Compressor Enclosure-FG Enclosure Roof	22.0	15.4	15.4	15.4	
FG Compressor Enclosure-FG Enclosure East	21.0	14.3	14.3	14.3	
FG Compressor Enclosure-FG Enclosure East Louver 1	5.3	-1.4	-1.4	-1.4	
FG Compressor Enclosure-FG Enclosure North	23.2	16.6	16.6	16.6	
FG Compressor Enclosure-FG Enclosure South	9.8	3.1	3.1	3.1	
FG Compressor Enclosure-FG Enclosure West	15.5	8.8	8.8	8.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.5	-5.2	-5.2	-5.2	
Fin Fan XF 616 - Above	30.8	24.1	24.1	24.1	
Fin Fan XF 616 - Below	45.9	39.2	39.2	39.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Fin Fan XF 617 - Above	28.4	21.7	21.7	21.7	
Fin Fan XF 617 - Below	42.9	36.2	36.2	36.2	
Heater # 5-Heater	28.6	21.9	21.9	21.9	
Heater # 5-Heater	28.1	21.5	21.5	21.5	
Heater # 5-Heater	28.6	21.9	21.9	21.9	
Heater H 601	33.0	26.4	26.4	26.4	
Hydro Heater H-402	31.6	24.9	24.9	24.9	
ID Fan	39.4	32.7	32.7	32.7	
ID Fan 200 HP Motor	32.4	25.8	25.8	25.8	
Incinirator Compressor & Motor	33.6	27.0	27.0	27.0	
Incinirator Fin Fan	36.5	29.8	29.8	29.8	
xxxx xxxx xxxx xxxx	37.2	35.7	34.0	28.1	
xxxx xxxx xxxx xxxx	37.4	35.9	34.2	28.3	
Lub Oil Cooler XF-061	34.5	27.8	27.8	27.8	
Misc pumps motors	37.2	30.6	30.6	30.6	
Motor & Pump P - 1502 Splitter Reflux Pu	27.1	20.4	20.4	20.4	
Motor & Pump P - 1503 Splitter Bottoms P	28.2	21.6	21.6	21.6	
Motor & Pump P - 1504 Splitter Bottoms P	29.2	22.6	22.6	22.6	
Motor & Pump P - 1507 Reactor Pump	42.9	36.2	36.2	36.2	
Motor & Pump P - 1508 Reactor Pump	28.2	21.5	21.5	21.5	
Motor & Pump P - 1511 Stabilizer Reflux	29.0	22.3	22.3	22.3	
Motor & Pump P - 1512 Stabilizer Reflux	41.1	34.4	34.4	34.4	
Motor & Pump P - 1513 Caustic Circulatin	27.8	21.1	21.1	21.1	
Motor & Pump P - 1514 Caustic Circulatin	40.0	33.3	33.3	33.3	
Motor & Pump P 120/121	26.6	19.9	19.9	19.9	
Motor & Pump P 1505 FRESH FEED PUMPS	28.6	22.0	22.0	22.0	
Motor & Pump P 1506 FRESH FEED PUMPS	30.2	23.5	23.5	23.5	
Motor & Pump P 1509 Chloride Injection P	24.2	17.6	17.6	17.6	
Motor & Pump P 1510 Chloride Injection P	24.3	17.6	17.6	17.6	
Motor & Pump P 1601 A	28.3	21.6	21.6	21.6	
Motor & Pump P 1601 B	28.3	21.6	21.6	21.6	
Motor & Pump P 1602 A	28.2	21.5	21.5	21.5	
Motor & Pump P 1602 B	26.1	19.5	19.5	19.5	
Motor & Pump P 211/212	22.3	15.7	15.7	15.7	
Motor & Pump P 215/214	27.3	20.6	20.6	20.6	
Motor & Pump P 216	29.3	22.7	22.7	22.7	
Motor & Pump P 217/218	22.2	15.6	15.6	15.6	
Motor & Pump P 300	28.5	21.8	21.8	21.8	
Motor & Pump P 301	34.2	27.5	27.5	27.5	
Motor & Pump P 302	29.4	22.7	22.7	22.7	
Motor & Pump P 303	28.9	22.2	22.2	22.2	
Motor & Pump P 305	27.0	20.3	20.3	20.3	
Motor & Pump P 306	42.1	35.4	35.4	35.4	
Motor & Pump P 307	34.6	27.9	27.9	27.9	
Motor & Pump P 309	25.8	19.1	19.1	19.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 312	31.4	24.7	24.7	24.7	
Motor & Pump P 313	31.3	24.6	24.6	24.6	
Motor & Pump P 315	32.8	26.1	26.1	26.1	
Motor & Pump P 316	32.4	25.7	25.7	25.7	
Motor & Pump P 317	33.1	26.4	26.4	26.4	
Motor & Pump P 318	31.0	24.3	24.3	24.3	
Motor & Pump P 319	30.7	24.0	24.0	24.0	
Motor & Pump P 327	40.5	33.8	33.8	33.8	
Motor & Pump P 328	38.4	31.7	31.7	31.7	
Motor & Pump P 329	38.4	31.8	31.8	31.8	
Motor & Pump P 451	26.1	19.4	19.4	19.4	
Motor & Pump P 453	22.8	16.1	16.1	16.1	
Motor & Pump P 454	21.1	14.5	14.5	14.5	
Motor & Pump P 457	22.3	15.7	15.7	15.7	
Motor & Pump P 458	24.1	17.4	17.4	17.4	
Motor & Pump P 459	21.2	14.5	14.5	14.5	
Motor & Pump P 56A/B	23.3	16.6	16.6	16.6	
P602 100 HP	39.2	32.5	32.5	32.5	
P603 60 HP	37.8	31.1	31.1	31.1	
P605 40 HP	38.0	31.4	31.4	31.4	
P607 15 HP	34.6	27.9	27.9	27.9	
P608 15 HP	34.8	28.1	28.1	28.1	
P611 15 HP	34.5	27.8	27.8	27.8	
P614/615 20 HP	37.0	30.3	30.3	30.3	
Rail Cars Bumping 6 times in during delivery	25.6	28.6			
Scanner Blower C-084A/B	22.7	16.0	16.0	16.0	
Solar Turbine T70 2nd Boiler-2nd Boiler North	7.2	0.6	0.6	0.6	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	5.5	-1.1	-1.1	-1.1	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	5.1	-1.6	-1.6	-1.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	4.6	-2.1	-2.1	-2.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	4.1	-2.6	-2.6	-2.6	
Solar Turbine T70 Boiler-Boiler East 1	12.0	5.3	5.3	5.3	
Solar Turbine T70 Boiler-Boiler East 2	14.7	8.0	8.0	8.0	
Solar Turbine T70 Boiler-Boiler North 1	24.5	17.8	17.8	17.8	
Solar Turbine T70 Boiler-Boiler North 2	15.8	9.2	9.2	9.2	
Solar Turbine T70 Boiler-Boiler Roof	20.9	14.2	14.2	14.2	
Solar Turbine T70 Boiler-Boiler South	21.6	14.9	14.9	14.9	
Solar Turbine T70 Boiler-Boiler South 2	13.0	6.3	6.3	6.3	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	29.8	23.1	23.1	23.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	35.0	28.4	28.4	28.4	
Solar Turbine T70 Enclosure-T70 Encl. Roof	31.8	25.1	25.1	25.1	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	32.9	26.2	26.2	26.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	21.3	14.6	14.6	14.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.6	15.0	15.0	15.0	
Solar Turbine T70 SCR-SCR Unit Roof	13.5	6.8	6.8	6.8	
Solar Turbine T70 SCR-SCR Unit NE	7.5	0.8	0.8	0.8	
Solar Turbine T70 SCR-SCR Unit North	13.5	6.9	6.9	6.9	
Solar Turbine T70 SCR-SCR Unit NW	8.0	1.3	1.3	1.3	
Solar Turbine T70 SCR-SCR Unit SE	5.5	-1.1	-1.1	-1.1	
Solar Turbine T70 SCR-SCR Unit South	10.7	4.0	4.0	4.0	
Solar Turbine T70 SCR-SCR Unit SW	5.1	-1.6	-1.6	-1.6	
xxxx xxxx xxxx xxxx	28.4	26.9	25.2	19.3	
xxxx xxxx xxxx xxxx	28.6	27.1	25.4	19.5	
Tank Farm Pump 1	32.3	25.6	25.6	25.6	
Tank Farm Pump 2	34.7	28.0	28.0	28.0	
Tank Farm Pump 3	39.3	32.6	32.6	32.6	
UP Train Locomotive Delivery and Pickup	24.0	27.0			
Vaporizer Blower 1	20.1	13.4	13.4	13.4	
Vaporizer Blower 2	20.7	14.1	14.1	14.1	
Vaporizer Inlet Silencer	9.3	2.7	2.7	2.7	
Vaporizer Motor 1	14.1	7.4	7.4	7.4	
Vaporizer Motor 2	14.9	8.3	8.3	8.3	
Water Treatment Pumps P-056A&B	20.1	13.4	13.4	13.4	
XF-1502 Splitter Area 1	46.3	39.6	39.6	39.6	
XF-1502 Splitter Area 2	43.6	37.0	37.0	37.0	
XF-1504 Splitter Area 1	43.8	37.1	37.1	37.1	
XF-1504 Splitter Area 2	41.8	35.1	35.1	35.1	
XF - 1601	34.4	27.7	27.7	27.7	
XF - 1602	33.8	27.1	27.1	27.1	
XF 304, XF 321	42.7	36.0	36.0	36.0	
XF 313, XF 314	42.9	36.2	36.2	36.2	
XF 335-1, XF 335-2	44.6	37.9	37.9	37.9	
XF 503	49.1	42.4	42.4	42.4	
XF Module 1510	47.6	40.9	40.9	40.9	
XF Module 1519	54.4	47.7	47.7	47.7	
Receiver CA-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 56.0 dB(A) Ld 7-19 dB(A) Leq,N 55.7 dB(A) Le 19-2					
2.8-Open Intake	40.0	33.4	33.4	33.4	
2011 Track Mobile switch moving rail cars 33 cars per day	28.4	31.4			
Air Compressor C 1	42.2	35.5	35.5	35.5	
Air Compressor Pump, Motor Fan CMXF -055	33.9	27.2	27.2	27.2	
Asphalt Production	55.6	48.9	48.9	48.9	
BFW Pumps P-073A&B	28.0	21.4	21.4	21.4	
Blower F 401	46.8	40.2	40.2	40.2	
Boiler Crude Unit-Heater Opening	30.4	23.7	23.7	23.7	
Brine Transfer P-085	23.5	16.8	16.8	16.8	
Burner H301 North	39.8	33.1	33.1	33.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H301 South	27.4	20.7	20.7	20.7	
Burner H302 North	35.6	28.9	28.9	28.9	
Burner H302 South	25.6	18.9	18.9	18.9	
Burner H303 North	32.7	26.0	26.0	26.0	
Burner H303 South	28.4	21.8	21.8	21.8	
Burner H304 North	29.8	23.1	23.1	23.1	
Burner H304 South	25.7	19.0	19.0	19.0	
Burner H305 North	31.1	24.4	24.4	24.4	
Burner H305 South	25.2	18.5	18.5	18.5	
Burner H306 North	29.2	22.5	22.5	22.5	
Burner H306 South	25.0	18.3	18.3	18.3	
Compressor House C301, C302, C 124-Comp House East 1	47.5	40.8	40.8	40.8	
Compressor House C301, C302, C 124-Comp House East 2	41.3	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House North	48.8	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House South 1	36.0	29.3	29.3	29.3	
Compressor House C301, C302, C 124-Comp House South 2	33.5	26.8	26.8	26.8	
Compressor House C301, C302, C 124-Comp House West	19.8	13.1	13.1	13.1	
Cooling Tower CT 510-CT 510 East Side	34.8	28.1	28.1	28.1	
Cooling Tower CT 510-CT 510 West Side	18.8	12.1	12.1	12.1	
Cooling Tower CT 511-CT 511 East Side	36.7	30.0	30.0	30.0	
Cooling Tower CT 511-CT 511 West Side	27.7	21.1	21.1	21.1	
Cooling Tower M 512	23.1	16.5	16.5	16.5	
Cooling Tower M 513	23.0	16.3	16.3	16.3	
Cooling Tower M 514	22.9	16.2	16.2	16.2	
Crude Plant Operation 80 dB/m^2 at 1 m	49.7	43.0	43.0	43.0	
xxxx xxxx xxxx xxxx	40.5	33.9	33.9	33.9	
xxxx xxxx xxxx xxxx	47.6	40.9	40.9	40.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	50.3	43.6	43.6	43.6	
xxxx xxxx xxxx xxxx	47.6	40.6	43.0	40.6	
CT Y-600-CT Y-600 North	46.3	39.6	39.6	39.6	
CT Y-600-CT Y-600 South	32.7	26.0	26.0	26.0	
Deaerator Skid P-058A&B	40.3	33.6	33.6	33.6	
xxxx xxxx xxxx xxxx	39.4	37.9	36.1	30.2	
xxxx xxxx xxxx xxxx	39.4	37.9	36.2	30.2	
Exhaust Stack	44.3	37.7	37.7	37.7	
F.G. After Cooler XF-083ABC	43.5	36.8	36.8	36.8	
Fan Y-600	46.3	39.6	39.6	39.6	
FG Compressor Enclosure-FG Enclosure Roof	28.5	21.8	21.8	21.8	
FG Compressor Enclosure-FG Enclosure East	26.6	19.9	19.9	19.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FG Compressor Enclosure-FG Enclosure East Louver 1	13.0	6.4	6.4	6.4	
FG Compressor Enclosure-FG Enclosure North	27.9	21.2	21.2	21.2	
FG Compressor Enclosure-FG Enclosure South	12.6	5.9	5.9	5.9	
FG Compressor Enclosure-FG Enclosure West	18.9	12.2	12.2	12.2	
FG Compressor Enclosure-FG Enclosure West Louver 3	3.6	-3.1	-3.1	-3.1	
Fin Fan XF 616 - Above	29.5	22.9	22.9	22.9	
Fin Fan XF 616 - Below	43.6	36.9	36.9	36.9	
Fin Fan XF 617 - Above	23.4	16.7	16.7	16.7	
Fin Fan XF 617 - Below	35.6	28.9	28.9	28.9	
Heater # 5-Heater	24.6	17.9	17.9	17.9	
Heater # 5-Heater	24.8	18.1	18.1	18.1	
Heater # 5-Heater	23.2	16.5	16.5	16.5	
Heater H 601	27.6	20.9	20.9	20.9	
Hydro Heater H-402	27.0	20.4	20.4	20.4	
ID Fan	39.4	32.8	32.8	32.8	
ID Fan 200 HP Motor	29.7	23.0	23.0	23.0	
Incinirator Compressor & Motor	27.1	20.4	20.4	20.4	
Incinirator Fin Fan	30.9	24.3	24.3	24.3	
xxxx xxxx xxxx xxxx	42.4	40.9	39.2	33.3	
xxxx xxxx xxxx xxxx	42.5	41.0	39.2	33.3	
Lub Oil Cooler XF-061	42.4	35.8	35.8	35.8	
Misc pumps motors	48.1	41.5	41.5	41.5	
Motor & Pump P - 1502 Splitter Reflux Pu	24.9	18.2	18.2	18.2	
Motor & Pump P - 1503 Splitter Bottoms P	27.2	20.5	20.5	20.5	
Motor & Pump P - 1504 Splitter Bottoms P	27.2	20.5	20.5	20.5	
Motor & Pump P - 1507 Reactor Pump	25.1	18.4	18.4	18.4	
Motor & Pump P - 1508 Reactor Pump	25.2	18.5	18.5	18.5	
Motor & Pump P - 1511 Stabilizer Reflux	27.0	20.3	20.3	20.3	
Motor & Pump P - 1512 Stabilizer Reflux	27.1	20.4	20.4	20.4	
Motor & Pump P - 1513 Caustic Circulatin	26.5	19.8	19.8	19.8	
Motor & Pump P - 1514 Caustic Circulatin	27.5	20.8	20.8	20.8	
Motor & Pump P 120/121	26.8	20.1	20.1	20.1	
Motor & Pump P 1505 FRESH FEED PUMPS	26.9	20.2	20.2	20.2	
Motor & Pump P 1506 FRESH FEED PUMPS	26.9	20.2	20.2	20.2	
Motor & Pump P 1509 Chloride Injection P	22.6	15.9	15.9	15.9	
Motor & Pump P 1510 Chloride Injection P	23.1	16.5	16.5	16.5	
Motor & Pump P 1601 A	27.6	21.0	21.0	21.0	
Motor & Pump P 1601 B	27.5	20.8	20.8	20.8	
Motor & Pump P 1602 A	26.3	19.6	19.6	19.6	
Motor & Pump P 1602 B	26.5	19.8	19.8	19.8	
Motor & Pump P 211/212	21.2	14.6	14.6	14.6	
Motor & Pump P 215/214	36.4	29.8	29.8	29.8	
Motor & Pump P 216	28.2	21.6	21.6	21.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 217/218	21.7	15.0	15.0	15.0	
Motor & Pump P 300	27.3	20.6	20.6	20.6	
Motor & Pump P 301	33.5	26.9	26.9	26.9	
Motor & Pump P 302	28.2	21.5	21.5	21.5	
Motor & Pump P 303	28.0	21.3	21.3	21.3	
Motor & Pump P 305	27.5	20.8	20.8	20.8	
Motor & Pump P 306	41.4	34.8	34.8	34.8	
Motor & Pump P 307	35.0	28.4	28.4	28.4	
Motor & Pump P 309	25.2	18.6	18.6	18.6	
Motor & Pump P 312	30.4	23.7	23.7	23.7	
Motor & Pump P 313	30.4	23.7	23.7	23.7	
Motor & Pump P 315	33.4	26.7	26.7	26.7	
Motor & Pump P 316	31.7	25.1	25.1	25.1	
Motor & Pump P 317	33.3	26.6	26.6	26.6	
Motor & Pump P 318	30.1	23.5	23.5	23.5	
Motor & Pump P 319	30.1	23.4	23.4	23.4	
Motor & Pump P 327	39.6	32.9	32.9	32.9	
Motor & Pump P 328	38.9	32.3	32.3	32.3	
Motor & Pump P 329	38.3	31.6	31.6	31.6	
Motor & Pump P 451	20.0	13.4	13.4	13.4	
Motor & Pump P 453	21.6	15.0	15.0	15.0	
Motor & Pump P 454	22.1	15.5	15.5	15.5	
Motor & Pump P 457	28.7	22.0	22.0	22.0	
Motor & Pump P 458	20.1	13.5	13.5	13.5	
Motor & Pump P 459	22.1	15.5	15.5	15.5	
Motor & Pump P 56A/B	22.6	15.9	15.9	15.9	
P602 100 HP	39.8	33.1	33.1	33.1	
P603 60 HP	39.1	32.4	32.4	32.4	
P605 40 HP	40.0	33.4	33.4	33.4	
P607 15 HP	29.8	23.1	23.1	23.1	
P608 15 HP	27.7	21.1	21.1	21.1	
P611 15 HP	33.2	26.5	26.5	26.5	
P614/615 20 HP	40.5	33.8	33.8	33.8	
Rail Cars Bumping 6 times in during delivery	29.0	32.1			
Scanner Blower C-084A/B	24.1	17.4	17.4	17.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	8.0	1.3	1.3	1.3	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	6.2	-0.4	-0.4	-0.4	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	5.7	-1.0	-1.0	-1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	4.6	-2.1	-2.1	-2.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	4.1	-2.6	-2.6	-2.6	
Solar Turbine T70 Boiler-Boiler East 1	16.4	9.7	9.7	9.7	
Solar Turbine T70 Boiler-Boiler East 2	23.6	16.9	16.9	16.9	
Solar Turbine T70 Boiler-Boiler North 1	32.1	25.5	25.5	25.5	
Solar Turbine T70 Boiler-Boiler North 2	23.4	16.7	16.7	16.7	
Solar Turbine T70 Boiler-Boiler Roof	30.3	23.7	23.7	23.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Boiler-Boiler South	24.8	18.1	18.1	18.1	
Solar Turbine T70 Boiler-Boiler South 2	16.3	9.6	9.6	9.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	38.5	31.8	31.8	31.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	43.5	36.8	36.8	36.8	
Solar Turbine T70 Enclosure-T70 Encl. Roof	43.2	36.5	36.5	36.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	36.1	29.4	29.4	29.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	24.6	17.9	17.9	17.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	24.9	18.2	18.2	18.2	
Solar Turbine T70 SCR-SCR Unit Roof	16.1	9.4	9.4	9.4	
Solar Turbine T70 SCR-SCR Unit NE	8.5	1.8	1.8	1.8	
Solar Turbine T70 SCR-SCR Unit North	14.6	7.9	7.9	7.9	
Solar Turbine T70 SCR-SCR Unit NW	8.9	2.2	2.2	2.2	
Solar Turbine T70 SCR-SCR Unit SE	5.9	-0.8	-0.8	-0.8	
Solar Turbine T70 SCR-SCR Unit South	10.8	4.2	4.2	4.2	
Solar Turbine T70 SCR-SCR Unit SW	5.1	-1.6	-1.6	-1.6	
xxxx xxxx xxxx xxxx	28.4	26.9	25.2	19.3	
xxxx xxxx xxxx xxxx	28.4	26.9	25.2	19.3	
Tank Farm Pump 1	33.2	26.5	26.5	26.5	
Tank Farm Pump 2	33.0	26.3	26.3	26.3	
Tank Farm Pump 3	30.2	23.6	23.6	23.6	
UP Train Locomotive Delivery and Pickup	24.8	27.8			
Vaporizer Blower 1	27.0	20.4	20.4	20.4	
Vaporizer Blower 2	27.0	20.3	20.3	20.3	
Vaporizer Inlet Silencer	18.5	11.9	11.9	11.9	
Vaporizer Motor 1	20.9	14.2	14.2	14.2	
Vaporizer Motor 2	20.9	14.2	14.2	14.2	
Water Treatment Pumps P-056A&B	20.1	13.5	13.5	13.5	
XF-1502 Splitter Area 1	38.9	32.2	32.2	32.2	
XF-1502 Splitter Area 2	37.4	30.7	30.7	30.7	
XF-1504 Splitter Area 1	37.6	30.9	30.9	30.9	
XF-1504 Splitter Area 2	36.5	29.8	29.8	29.8	
XF - 1601	37.7	31.0	31.0	31.0	
XF - 1602	37.3	30.6	30.6	30.6	
XF 304, XF 321	42.6	35.9	35.9	35.9	
XF 313, XF 314	41.8	35.1	35.1	35.1	
XF 335-1, XF 335-2	44.6	37.9	37.9	37.9	
XF 503	51.8	45.1	45.1	45.1	
XF Module 1510	40.9	34.2	34.2	34.2	
XF Module 1519	44.0	37.3	37.3	37.3	
Receiver CA-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 55.7 dB(A) Ld 7-19 dB(A) Leq,N 55.6 dB(A) Le 19-2					
2.8-Open Intake	39.2	32.6	32.6	32.6	
2011 Track Mobile switch moving rail cars 33 cars per day	28.4	31.5			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	41.3	34.6	34.6	34.6	
Air Compressor Pump, Motor Fan CMXF -055	34.0	27.3	27.3	27.3	
Asphalt Production	45.9	39.2	39.2	39.2	
BFW Pumps P-073A&B	27.8	21.1	21.1	21.1	
Blower F 401	46.9	40.2	40.2	40.2	
Boiler Crude Unit-Heater Opening	41.0	34.3	34.3	34.3	
Brine Transfer P-085	26.5	19.8	19.8	19.8	
Burner H301 North	30.2	23.6	23.6	23.6	
Burner H301 South	26.8	20.1	20.1	20.1	
Burner H302 North	34.1	27.4	27.4	27.4	
Burner H302 South	25.7	19.1	19.1	19.1	
Burner H303 North	33.9	27.3	27.3	27.3	
Burner H303 South	29.0	22.3	22.3	22.3	
Burner H304 North	30.0	23.3	23.3	23.3	
Burner H304 South	26.3	19.6	19.6	19.6	
Burner H305 North	28.7	22.1	22.1	22.1	
Burner H305 South	24.4	17.7	17.7	17.7	
Burner H306 North	30.4	23.7	23.7	23.7	
Burner H306 South	24.6	18.0	18.0	18.0	
Compressor House C301, C302, C 124-Comp House East 1	38.4	31.7	31.7	31.7	
Compressor House C301, C302, C 124-Comp House East 2	35.4	28.8	28.8	28.8	
Compressor House C301, C302, C 124-Comp House North	48.1	41.4	41.4	41.4	
Compressor House C301, C302, C 124-Comp House South 1	30.5	23.8	23.8	23.8	
Compressor House C301, C302, C 124-Comp House South 2	22.9	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House West	20.0	13.3	13.3	13.3	
Cooling Tower CT 510-CT 510 East Side	33.4	26.7	26.7	26.7	
Cooling Tower CT 510-CT 510 West Side	19.4	12.7	12.7	12.7	
Cooling Tower CT 511-CT 511 East Side	37.3	30.6	30.6	30.6	
Cooling Tower CT 511-CT 511 West Side	29.8	23.2	23.2	23.2	
Cooling Tower M 512	24.6	17.9	17.9	17.9	
Cooling Tower M 513	24.8	18.1	18.1	18.1	
Cooling Tower M 514	24.4	17.7	17.7	17.7	
Crude Plant Operation 80 dB/m^2 at 1 m	56.6	49.9	49.9	49.9	
xxxx xxxx xxxx xxxx	37.1	30.5	30.5	30.5	
xxxx xxxx xxxx xxxx	44.7	38.0	38.0	38.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	56.8	50.1	50.1	50.1	
xxxx xxxx xxxx xxxx	42.2	35.3	37.6	35.3	
CT Y-600-CT Y-600 North	31.9	25.2	25.2	25.2	
CT Y-600-CT Y-600 South	27.0	20.3	20.3	20.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Deaerator Skid P-058A&B	39.7	33.0	33.0	33.0	
xxxx xxxx xxxx xxxx	26.5	25.0	23.3	17.4	
xxxx xxxx xxxx xxxx	26.6	25.1	23.3	17.4	
Exhaust Stack	49.7	43.0	43.0	43.0	
F.G. After Cooler XF-083ABC	42.8	36.2	36.2	36.2	
Fan Y-600	34.4	27.7	27.7	27.7	
FG Compressor Enclosure-FG Enclosure Roof	27.4	20.7	20.7	20.7	
FG Compressor Enclosure-FG Enclosure East	25.4	18.7	18.7	18.7	
FG Compressor Enclosure-FG Enclosure East Louver 1	10.3	3.7	3.7	3.7	
FG Compressor Enclosure-FG Enclosure North	27.2	20.6	20.6	20.6	
FG Compressor Enclosure-FG Enclosure South	12.2	5.5	5.5	5.5	
FG Compressor Enclosure-FG Enclosure West	18.1	11.4	11.4	11.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.9	-4.8	-4.8	-4.8	
Fin Fan XF 616 - Above	25.0	18.4	18.4	18.4	
Fin Fan XF 616 - Below	38.4	31.7	31.7	31.7	
Fin Fan XF 617 - Above	23.5	16.8	16.8	16.8	
Fin Fan XF 617 - Below	37.1	30.4	30.4	30.4	
Heater # 5-Heater	33.7	27.1	27.1	27.1	
Heater # 5-Heater	29.7	23.1	23.1	23.1	
Heater # 5-Heater	24.2	17.5	17.5	17.5	
Heater H 601	30.3	23.6	23.6	23.6	
Hydro Heater H-402	26.4	19.8	19.8	19.8	
ID Fan	37.3	30.6	30.6	30.6	
ID Fan 200 HP Motor	28.4	21.7	21.7	21.7	
Incinirator Compressor & Motor	27.6	20.9	20.9	20.9	
Incinirator Fin Fan	29.9	23.3	23.3	23.3	
xxxx xxxx xxxx xxxx	34.9	33.4	31.7	25.8	
xxxx xxxx xxxx xxxx	35.2	33.7	32.0	26.1	
Lub Oil Cooler XF-061	42.6	35.9	35.9	35.9	
Misc pumps motors	46.8	40.1	40.1	40.1	
Motor & Pump P - 1502 Splitter Reflux Pu	29.1	22.4	22.4	22.4	
Motor & Pump P - 1503 Splitter Bottoms P	28.8	22.1	22.1	22.1	
Motor & Pump P - 1504 Splitter Bottoms P	28.9	22.3	22.3	22.3	
Motor & Pump P - 1507 Reactor Pump	26.7	20.1	20.1	20.1	
Motor & Pump P - 1508 Reactor Pump	27.4	20.7	20.7	20.7	
Motor & Pump P - 1511 Stabilizer Reflux	25.7	19.0	19.0	19.0	
Motor & Pump P - 1512 Stabilizer Reflux	25.7	19.1	19.1	19.1	
Motor & Pump P - 1513 Caustic Circulatin	28.1	21.5	21.5	21.5	
Motor & Pump P - 1514 Caustic Circulatin	27.7	21.0	21.0	21.0	
Motor & Pump P 120/121	27.6	20.9	20.9	20.9	
Motor & Pump P 1505 FRESH FEED PUMPS	27.6	20.9	20.9	20.9	
Motor & Pump P 1506 FRESH FEED PUMPS	26.5	19.9	19.9	19.9	
Motor & Pump P 1509 Chloride Injection P	23.1	16.5	16.5	16.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1510 Chloride Injection P	23.8	17.2	17.2	17.2	
Motor & Pump P 1601 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.0	21.3	21.3	21.3	
Motor & Pump P 1602 A	28.2	21.5	21.5	21.5	
Motor & Pump P 1602 B	28.5	21.8	21.8	21.8	
Motor & Pump P 211/212	22.9	16.2	16.2	16.2	
Motor & Pump P 215/214	22.9	16.2	16.2	16.2	
Motor & Pump P 216	26.8	20.1	20.1	20.1	
Motor & Pump P 217/218	22.6	15.9	15.9	15.9	
Motor & Pump P 300	27.6	21.0	21.0	21.0	
Motor & Pump P 301	33.2	26.5	26.5	26.5	
Motor & Pump P 302	28.1	21.5	21.5	21.5	
Motor & Pump P 303	27.4	20.7	20.7	20.7	
Motor & Pump P 305	27.4	20.7	20.7	20.7	
Motor & Pump P 306	41.0	34.3	34.3	34.3	
Motor & Pump P 307	35.9	29.2	29.2	29.2	
Motor & Pump P 309	24.4	17.8	17.8	17.8	
Motor & Pump P 312	31.2	24.6	24.6	24.6	
Motor & Pump P 313	31.2	24.6	24.6	24.6	
Motor & Pump P 315	34.6	27.9	27.9	27.9	
Motor & Pump P 316	31.9	25.2	25.2	25.2	
Motor & Pump P 317	32.8	26.2	26.2	26.2	
Motor & Pump P 318	30.8	24.1	24.1	24.1	
Motor & Pump P 319	30.8	24.1	24.1	24.1	
Motor & Pump P 327	39.8	33.1	33.1	33.1	
Motor & Pump P 328	37.4	30.8	30.8	30.8	
Motor & Pump P 329	37.7	31.0	31.0	31.0	
Motor & Pump P 451	23.2	16.5	16.5	16.5	
Motor & Pump P 453	24.1	17.4	17.4	17.4	
Motor & Pump P 454	23.3	16.6	16.6	16.6	
Motor & Pump P 457	24.2	17.6	17.6	17.6	
Motor & Pump P 458	23.1	16.4	16.4	16.4	
Motor & Pump P 459	21.9	15.2	15.2	15.2	
Motor & Pump P 56A/B	21.5	14.8	14.8	14.8	
P602 100 HP	28.2	21.5	21.5	21.5	
P603 60 HP	25.1	18.4	18.4	18.4	
P605 40 HP	25.4	18.7	18.7	18.7	
P607 15 HP	28.2	21.5	21.5	21.5	
P608 15 HP	29.0	22.3	22.3	22.3	
P611 15 HP	25.2	18.5	18.5	18.5	
P614/615 20 HP	25.5	18.8	18.8	18.8	
Rail Cars Bumping 6 times in during delivery	28.3	31.4			
Scanner Blower C-084A/B	23.2	16.5	16.5	16.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	14.3	7.6	7.6	7.6	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	12.6	6.0	6.0	6.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	12.7	6.1	6.1	6.1	
Solar Turbine T70 2nd Boiler-2nd Boiler South	7.1	0.4	0.4	0.4	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	7.1	0.4	0.4	0.4	
Solar Turbine T70 Boiler-Boiler East 1	16.2	9.5	9.5	9.5	
Solar Turbine T70 Boiler-Boiler East 2	23.0	16.4	16.4	16.4	
Solar Turbine T70 Boiler-Boiler North 1	32.8	26.1	26.1	26.1	
Solar Turbine T70 Boiler-Boiler North 2	23.4	16.8	16.8	16.8	
Solar Turbine T70 Boiler-Boiler Roof	30.4	23.7	23.7	23.7	
Solar Turbine T70 Boiler-Boiler South	24.5	17.8	17.8	17.8	
Solar Turbine T70 Boiler-Boiler South 2	15.9	9.2	9.2	9.2	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	38.2	31.5	31.5	31.5	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	43.5	36.9	36.9	36.9	
Solar Turbine T70 Enclosure-T70 Encl. Roof	43.2	36.5	36.5	36.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	35.6	28.9	28.9	28.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	24.0	17.4	17.4	17.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	24.3	17.7	17.7	17.7	
Solar Turbine T70 SCR-SCR Unit Roof	22.9	16.3	16.3	16.3	
Solar Turbine T70 SCR-SCR Unit NE	15.1	8.5	8.5	8.5	
Solar Turbine T70 SCR-SCR Unit North	21.5	14.9	14.9	14.9	
Solar Turbine T70 SCR-SCR Unit NW	16.1	9.4	9.4	9.4	
Solar Turbine T70 SCR-SCR Unit SE	8.6	1.9	1.9	1.9	
Solar Turbine T70 SCR-SCR Unit South	13.5	6.8	6.8	6.8	
Solar Turbine T70 SCR-SCR Unit SW	7.8	1.1	1.1	1.1	
xxxx xxxx xxxx xxxx	24.6	23.1	21.4	15.5	
xxxx xxxx xxxx xxxx	25.1	23.5	21.8	15.9	
Tank Farm Pump 1	34.9	28.2	28.2	28.2	
Tank Farm Pump 2	32.6	25.9	25.9	25.9	
Tank Farm Pump 3	31.2	24.5	24.5	24.5	
UP Train Locomotive Delivery and Pickup	23.2	26.3			
Vaporizer Blower 1	26.9	20.3	20.3	20.3	
Vaporizer Blower 2	26.9	20.2	20.2	20.2	
Vaporizer Inlet Silencer	18.4	11.7	11.7	11.7	
Vaporizer Motor 1	20.8	14.1	14.1	14.1	
Vaporizer Motor 2	20.8	14.1	14.1	14.1	
Water Treatment Pumps P-056A&B	22.6	15.9	15.9	15.9	
XF-1502 Splitter Area 1	35.1	28.5	28.5	28.5	
XF-1502 Splitter Area 2	34.9	28.2	28.2	28.2	
XF-1504 Splitter Area 1	34.9	28.2	28.2	28.2	
XF-1504 Splitter Area 2	34.7	28.1	28.1	28.1	
XF - 1601	38.0	31.3	31.3	31.3	
XF - 1602	38.1	31.4	31.4	31.4	
XF 304, XF 321	43.2	36.5	36.5	36.5	
XF 313, XF 314	42.4	35.7	35.7	35.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	44.1	37.4	37.4	37.4	
XF 503	42.7	36.0	36.0	36.0	
XF Module 1510	38.0	31.3	31.3	31.3	
XF Module 1519	39.1	32.4	32.4	32.4	
Receiver CA-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 54.6 dB(A) Ld 7-19 dB(A) Leq,N 54.4 dB(A) Le 19-					
2.8-Open Intake	39.1	32.4	32.4	32.4	
2011 Track Mobile switch moving rail cars 33 cars per day	26.3	29.3			
Air Compressor C 1	41.0	34.3	34.3	34.3	
Air Compressor Pump, Motor Fan CMXF -055	26.3	19.6	19.6	19.6	
Asphalt Production	44.9	38.2	38.2	38.2	
BFW Pumps P-073A&B	22.9	16.2	16.2	16.2	
Blower F 401	47.1	40.4	40.4	40.4	
Boiler Crude Unit-Heater Opening	36.2	29.6	29.6	29.6	
Brine Transfer P-085	22.7	16.0	16.0	16.0	
Burner H301 North	27.7	21.1	21.1	21.1	
Burner H301 South	26.0	19.4	19.4	19.4	
Burner H302 North	31.9	25.2	25.2	25.2	
Burner H302 South	24.7	18.0	18.0	18.0	
Burner H303 North	31.7	25.0	25.0	25.0	
Burner H303 South	27.6	20.9	20.9	20.9	
Burner H304 North	29.6	22.9	22.9	22.9	
Burner H304 South	25.9	19.3	19.3	19.3	
Burner H305 North	29.3	22.7	22.7	22.7	
Burner H305 South	24.4	17.7	17.7	17.7	
Burner H306 North	30.4	23.8	23.8	23.8	
Burner H306 South	22.8	16.1	16.1	16.1	
Compressor House C301, C302, C 124-Comp House East 1	35.7	29.0	29.0	29.0	
Compressor House C301, C302, C 124-Comp House East 2	32.3	25.6	25.6	25.6	
Compressor House C301, C302, C 124-Comp House North	45.8	39.1	39.1	39.1	
Compressor House C301, C302, C 124-Comp House South 1	29.6	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House South 2	22.7	16.0	16.0	16.0	
Compressor House C301, C302, C 124-Comp House West	19.3	12.7	12.7	12.7	
Cooling Tower CT 510-CT 510 East Side	32.0	25.3	25.3	25.3	
Cooling Tower CT 510-CT 510 West Side	17.9	11.2	11.2	11.2	
Cooling Tower CT 511-CT 511 East Side	37.0	30.3	30.3	30.3	
Cooling Tower CT 511-CT 511 West Side	28.5	21.9	21.9	21.9	
Cooling Tower M 512	22.1	15.5	15.5	15.5	
Cooling Tower M 513	24.1	17.4	17.4	17.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	22.8	16.2	16.2	16.2	
Crude Plant Operation 80 dB/m^2 at 1 m	55.3	48.6	48.6	48.6	
xxxx xxxx xxxx xxxx	39.3	32.6	32.6	32.6	
xxxx xxxx xxxx xxxx	42.4	35.7	35.7	35.7	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	55.7	49.1	49.1	49.1	
xxxx xxxx xxxx xxxx	43.0	36.0	38.4	36.0	
CT Y-600-CT Y-600 North	40.2	33.5	33.5	33.5	
CT Y-600-CT Y-600 South	29.8	23.1	23.1	23.1	
Deaerator Skid P-058A&B	33.7	27.0	27.0	27.0	
xxxx xxxx xxxx xxxx	24.3	22.8	21.0	15.1	
xxxx xxxx xxxx xxxx	24.4	22.9	21.2	15.3	
Exhaust Stack	45.9	39.2	39.2	39.2	
F.G. After Cooler XF-083ABC	32.5	25.8	25.8	25.8	
Fan Y-600	38.7	32.1	32.1	32.1	
FG Compressor Enclosure-FG Enclosure Roof	20.3	13.6	13.6	13.6	
FG Compressor Enclosure-FG Enclosure East	19.9	13.2	13.2	13.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	11.1	4.5	4.5	4.5	
FG Compressor Enclosure-FG Enclosure North	21.3	14.7	14.7	14.7	
FG Compressor Enclosure-FG Enclosure South	8.8	2.1	2.1	2.1	
FG Compressor Enclosure-FG Enclosure West	14.9	8.2	8.2	8.2	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.5	-5.1	-5.1	-5.1	
Fin Fan XF 616 - Above	32.0	25.4	25.4	25.4	
Fin Fan XF 616 - Below	46.9	40.2	40.2	40.2	
Fin Fan XF 617 - Above	28.9	22.2	22.2	22.2	
Fin Fan XF 617 - Below	43.0	36.3	36.3	36.3	
Heater # 5-Heater	25.4	18.7	18.7	18.7	
Heater # 5-Heater	25.7	19.1	19.1	19.1	
Heater # 5-Heater	28.5	21.9	21.9	21.9	
Heater H 601	34.7	28.0	28.0	28.0	
Hydro Heater H-402	25.8	19.2	19.2	19.2	
ID Fan	37.1	30.4	30.4	30.4	
ID Fan 200 HP Motor	27.9	21.2	21.2	21.2	
Incinirator Compressor & Motor	24.6	17.9	17.9	17.9	
Incinirator Fin Fan	28.0	21.3	21.3	21.3	
xxxx xxxx xxxx xxxx	38.3	36.8	35.1	29.2	
xxxx xxxx xxxx xxxx	38.3	36.8	35.1	29.2	
Lub Oil Cooler XF-061	34.2	27.6	27.6	27.6	
Misc pumps motors	36.9	30.3	30.3	30.3	
Motor & Pump P - 1502 Splitter Reflux Pu	26.9	20.2	20.2	20.2	
Motor & Pump P - 1503 Splitter Bottoms P	26.8	20.1	20.1	20.1	
Motor & Pump P - 1504 Splitter Bottoms P	27.0	20.4	20.4	20.4	
Motor & Pump P - 1507 Reactor Pump	25.7	19.1	19.1	19.1	
Motor & Pump P - 1508 Reactor Pump	26.7	20.1	20.1	20.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	24.0	17.3	17.3	17.3	
Motor & Pump P - 1512 Stabilizer Reflux	24.0	17.3	17.3	17.3	
Motor & Pump P - 1513 Caustic Circulatin	25.3	18.6	18.6	18.6	
Motor & Pump P - 1514 Caustic Circulatin	23.9	17.2	17.2	17.2	
Motor & Pump P 120/121	25.0	18.3	18.3	18.3	
Motor & Pump P 1505 FRESH FEED PUMPS	23.8	17.1	17.1	17.1	
Motor & Pump P 1506 FRESH FEED PUMPS	25.2	18.5	18.5	18.5	
Motor & Pump P 1509 Chloride Injection P	22.3	15.6	15.6	15.6	
Motor & Pump P 1510 Chloride Injection P	21.7	15.0	15.0	15.0	
Motor & Pump P 1601 A	26.4	19.7	19.7	19.7	
Motor & Pump P 1601 B	26.4	19.7	19.7	19.7	
Motor & Pump P 1602 A	26.4	19.7	19.7	19.7	
Motor & Pump P 1602 B	26.6	19.9	19.9	19.9	
Motor & Pump P 211/212	21.3	14.7	14.7	14.7	
Motor & Pump P 215/214	19.6	12.9	12.9	12.9	
Motor & Pump P 216	25.8	19.1	19.1	19.1	
Motor & Pump P 217/218	21.0	14.3	14.3	14.3	
Motor & Pump P 300	27.2	20.6	20.6	20.6	
Motor & Pump P 301	32.3	25.6	25.6	25.6	
Motor & Pump P 302	27.3	20.6	20.6	20.6	
Motor & Pump P 303	27.7	21.0	21.0	21.0	
Motor & Pump P 305	27.3	20.6	20.6	20.6	
Motor & Pump P 306	40.3	33.7	33.7	33.7	
Motor & Pump P 307	33.3	26.6	26.6	26.6	
Motor & Pump P 309	24.1	17.4	17.4	17.4	
Motor & Pump P 312	28.5	21.8	21.8	21.8	
Motor & Pump P 313	28.4	21.8	21.8	21.8	
Motor & Pump P 315	31.8	25.1	25.1	25.1	
Motor & Pump P 316	31.1	24.5	24.5	24.5	
Motor & Pump P 317	31.0	24.4	24.4	24.4	
Motor & Pump P 318	28.4	21.8	21.8	21.8	
Motor & Pump P 319	28.0	21.3	21.3	21.3	
Motor & Pump P 327	37.9	31.2	31.2	31.2	
Motor & Pump P 328	36.7	30.0	30.0	30.0	
Motor & Pump P 329	36.6	29.9	29.9	29.9	
Motor & Pump P 451	21.4	14.7	14.7	14.7	
Motor & Pump P 453	21.9	15.2	15.2	15.2	
Motor & Pump P 454	21.4	14.7	14.7	14.7	
Motor & Pump P 457	22.3	15.6	15.6	15.6	
Motor & Pump P 458	21.3	14.6	14.6	14.6	
Motor & Pump P 459	21.4	14.8	14.8	14.8	
Motor & Pump P 56A/B	20.3	13.6	13.6	13.6	
P602 100 HP	40.0	33.4	33.4	33.4	
P603 60 HP	38.3	31.7	31.7	31.7	
P605 40 HP	38.9	32.2	32.2	32.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P607 15 HP	35.7	29.0	29.0	29.0	
P608 15 HP	35.7	29.0	29.0	29.0	
P611 15 HP	36.0	29.4	29.4	29.4	
P614/615 20 HP	39.2	32.5	32.5	32.5	
Rail Cars Bumping 6 times in during delivery	26.1	29.1			
Scanner Blower C-084A/B	21.9	15.3	15.3	15.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	7.0	0.4	0.4	0.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	5.4	-1.3	-1.3	-1.3	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	4.8	-1.8	-1.8	-1.8	
Solar Turbine T70 2nd Boiler-2nd Boiler South	4.0	-2.7	-2.7	-2.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	3.6	-3.0	-3.0	-3.0	
Solar Turbine T70 Boiler-Boiler East 1	11.5	4.8	4.8	4.8	
Solar Turbine T70 Boiler-Boiler East 2	13.9	7.2	7.2	7.2	
Solar Turbine T70 Boiler-Boiler North 1	24.2	17.5	17.5	17.5	
Solar Turbine T70 Boiler-Boiler North 2	14.7	8.1	8.1	8.1	
Solar Turbine T70 Boiler-Boiler Roof	21.2	14.5	14.5	14.5	
Solar Turbine T70 Boiler-Boiler South	21.0	14.3	14.3	14.3	
Solar Turbine T70 Boiler-Boiler South 2	12.4	5.7	5.7	5.7	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	29.3	22.7	22.7	22.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	34.6	27.9	27.9	27.9	
Solar Turbine T70 Enclosure-T70 Encl. Roof	31.4	24.7	24.7	24.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	32.4	25.7	25.7	25.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	20.5	13.8	13.8	13.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.1	14.4	14.4	14.4	
Solar Turbine T70 SCR-SCR Unit Roof	12.6	6.0	6.0	6.0	
Solar Turbine T70 SCR-SCR Unit NE	7.1	0.5	0.5	0.5	
Solar Turbine T70 SCR-SCR Unit North	13.4	6.7	6.7	6.7	
Solar Turbine T70 SCR-SCR Unit NW	7.9	1.2	1.2	1.2	
Solar Turbine T70 SCR-SCR Unit SE	5.0	-1.7	-1.7	-1.7	
Solar Turbine T70 SCR-SCR Unit South	10.1	3.4	3.4	3.4	
Solar Turbine T70 SCR-SCR Unit SW	4.5	-2.2	-2.2	-2.2	
xxxx xxxx xxxx xxxx	26.4	24.8	23.1	17.2	
xxxx xxxx xxxx xxxx	26.5	25.0	23.3	17.4	
Tank Farm Pump 1	36.4	29.7	29.7	29.7	
Tank Farm Pump 2	30.4	23.7	23.7	23.7	
Tank Farm Pump 3	33.3	26.7	26.7	26.7	
UP Train Locomotive Delivery and Pickup	21.6	24.6			
Vaporizer Blower 1	19.7	13.0	13.0	13.0	
Vaporizer Blower 2	19.6	13.0	13.0	13.0	
Vaporizer Inlet Silencer	8.9	2.3	2.3	2.3	
Vaporizer Motor 1	13.6	6.9	6.9	6.9	
Vaporizer Motor 2	13.6	6.9	6.9	6.9	
Water Treatment Pumps P-056A&B	19.4	12.7	12.7	12.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 1	33.6	26.9	26.9	26.9	
XF-1502 Splitter Area 2	33.5	26.8	26.8	26.8	
XF-1504 Splitter Area 1	33.5	26.8	26.8	26.8	
XF-1504 Splitter Area 2	33.5	26.8	26.8	26.8	
XF - 1601	37.0	30.4	30.4	30.4	
XF - 1602	37.2	30.6	30.6	30.6	
XF 304, XF 321	42.9	36.2	36.2	36.2	
XF 313, XF 314	41.5	34.8	34.8	34.8	
XF 335-1, XF 335-2	44.1	37.4	37.4	37.4	
XF 503	40.5	33.9	33.9	33.9	
XF Module 1510	36.6	29.9	29.9	29.9	
XF Module 1519	37.4	30.8	30.8	30.8	
Receiver CA-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 54.4 dB(A) Ld 7-19 dB(A) Leq,N 54.2 dB(A) Le 19-2					
2.8-Open Intake	39.3	32.7	32.7	32.7	
2011 Track Mobile switch moving rail cars 33 cars per day	23.6	26.6			
Air Compressor C 1	40.8	34.2	34.2	34.2	
Air Compressor Pump, Motor Fan CMXF -055	28.1	21.4	21.4	21.4	
Asphalt Production	44.6	37.9	37.9	37.9	
BFW Pumps P-073A&B	24.7	18.0	18.0	18.0	
Blower F 401	46.3	39.6	39.6	39.6	
Boiler Crude Unit-Heater Opening	35.4	28.7	28.7	28.7	
Brine Transfer P-085	23.0	16.3	16.3	16.3	
Burner H301 North	34.6	27.9	27.9	27.9	
Burner H301 South	26.8	20.1	20.1	20.1	
Burner H302 North	32.1	25.4	25.4	25.4	
Burner H302 South	24.6	17.9	17.9	17.9	
Burner H303 North	30.5	23.9	23.9	23.9	
Burner H303 South	23.7	17.0	17.0	17.0	
Burner H304 North	28.8	22.1	22.1	22.1	
Burner H304 South	25.9	19.2	19.2	19.2	
Burner H305 North	29.6	22.9	22.9	22.9	
Burner H305 South	24.4	17.7	17.7	17.7	
Burner H306 North	29.2	22.5	22.5	22.5	
Burner H306 South	22.5	15.8	15.8	15.8	
Compressor House C301, C302, C 124-Comp House East 1	34.6	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House East 2	31.4	24.8	24.8	24.8	
Compressor House C301, C302, C 124-Comp House North	44.6	37.9	37.9	37.9	
Compressor House C301, C302, C 124-Comp House South 1	29.6	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House South 2	22.8	16.2	16.2	16.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	18.9	12.2	12.2	12.2	
Cooling Tower CT 510-CT 510 East Side	32.7	26.0	26.0	26.0	
Cooling Tower CT 510-CT 510 West Side	17.6	10.9	10.9	10.9	
Cooling Tower CT 511-CT 511 East Side	34.0	27.3	27.3	27.3	
Cooling Tower CT 511-CT 511 West Side	29.2	22.6	22.6	22.6	
Cooling Tower M 512	22.1	15.5	15.5	15.5	
Cooling Tower M 513	22.2	15.5	15.5	15.5	
Cooling Tower M 514	22.5	15.9	15.9	15.9	
Crude Plant Operation 80 dB/m^2 at 1 m	55.0	48.3	48.3	48.3	
xxxx xxxx xxxx xxxx	39.0	32.3	32.3	32.3	
xxxx xxxx xxxx xxxx	43.3	36.6	36.6	36.6	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	54.8	48.1	48.1	48.1	
xxxx xxxx xxxx xxxx	45.7	38.8	41.2	38.8	
CT Y-600-CT Y-600 North	33.1	26.4	26.4	26.4	
CT Y-600-CT Y-600 South	26.8	20.1	20.1	20.1	
Deaerator Skid P-058A&B	28.2	21.5	21.5	21.5	
xxxx xxxx xxxx xxxx	33.7	32.2	30.4	24.5	
xxxx xxxx xxxx xxxx	33.6	32.1	30.4	24.5	
Exhaust Stack	43.9	37.2	37.2	37.2	
F.G. After Cooler XF-083ABC	34.5	27.8	27.8	27.8	
Fan Y-600	35.3	28.6	28.6	28.6	
FG Compressor Enclosure-FG Enclosure Roof	23.4	16.7	16.7	16.7	
FG Compressor Enclosure-FG Enclosure East	22.5	15.9	15.9	15.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	6.5	-0.1	-0.1	-0.1	
FG Compressor Enclosure-FG Enclosure North	23.8	17.1	17.1	17.1	
FG Compressor Enclosure-FG Enclosure South	10.1	3.4	3.4	3.4	
FG Compressor Enclosure-FG Enclosure West	15.3	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.5	-5.2	-5.2	-5.2	
Fin Fan XF 616 - Above	24.2	17.5	17.5	17.5	
Fin Fan XF 616 - Below	38.1	31.4	31.4	31.4	
Fin Fan XF 617 - Above	23.1	16.4	16.4	16.4	
Fin Fan XF 617 - Below	35.2	28.6	28.6	28.6	
Heater # 5-Heater	26.1	19.4	19.4	19.4	
Heater # 5-Heater	27.0	20.4	20.4	20.4	
Heater # 5-Heater	24.5	17.8	17.8	17.8	
Heater H 601	27.6	21.0	21.0	21.0	
Hydro Heater H-402	25.5	18.8	18.8	18.8	
ID Fan	36.0	29.4	29.4	29.4	
ID Fan 200 HP Motor	27.4	20.7	20.7	20.7	
Incinirator Compressor & Motor	30.5	23.9	23.9	23.9	
Incinirator Fin Fan	33.4	26.7	26.7	26.7	
xxxx xxxx xxxx xxxx	38.2	36.7	35.0	29.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	38.2	36.7	35.0	29.1	
Lub Oil Cooler XF-061	35.5	28.9	28.9	28.9	
Misc pumps motors	34.4	27.7	27.7	27.7	
Motor & Pump P - 1502 Splitter Reflux Pu	27.7	21.0	21.0	21.0	
Motor & Pump P - 1503 Splitter Bottoms P	26.9	20.2	20.2	20.2	
Motor & Pump P - 1504 Splitter Bottoms P	26.9	20.2	20.2	20.2	
Motor & Pump P - 1507 Reactor Pump	26.0	19.4	19.4	19.4	
Motor & Pump P - 1508 Reactor Pump	27.3	20.7	20.7	20.7	
Motor & Pump P - 1511 Stabilizer Reflux	23.6	16.9	16.9	16.9	
Motor & Pump P - 1512 Stabilizer Reflux	23.6	16.9	16.9	16.9	
Motor & Pump P - 1513 Caustic Circulatin	23.2	16.5	16.5	16.5	
Motor & Pump P - 1514 Caustic Circulatin	23.5	16.9	16.9	16.9	
Motor & Pump P 120/121	25.4	18.8	18.8	18.8	
Motor & Pump P 1505 FRESH FEED PUMPS	23.6	17.0	17.0	17.0	
Motor & Pump P 1506 FRESH FEED PUMPS	25.2	18.5	18.5	18.5	
Motor & Pump P 1509 Chloride Injection P	21.9	15.3	15.3	15.3	
Motor & Pump P 1510 Chloride Injection P	23.5	16.8	16.8	16.8	
Motor & Pump P 1601 A	28.0	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 A	28.2	21.5	21.5	21.5	
Motor & Pump P 1602 B	28.4	21.8	21.8	21.8	
Motor & Pump P 211/212	23.5	16.8	16.8	16.8	
Motor & Pump P 215/214	23.3	16.6	16.6	16.6	
Motor & Pump P 216	28.7	22.0	22.0	22.0	
Motor & Pump P 217/218	22.9	16.2	16.2	16.2	
Motor & Pump P 300	26.5	19.9	19.9	19.9	
Motor & Pump P 301	31.5	24.8	24.8	24.8	
Motor & Pump P 302	24.8	18.2	18.2	18.2	
Motor & Pump P 303	27.6	21.0	21.0	21.0	
Motor & Pump P 305	27.9	21.2	21.2	21.2	
Motor & Pump P 306	40.1	33.4	33.4	33.4	
Motor & Pump P 307	33.7	27.1	27.1	27.1	
Motor & Pump P 309	23.8	17.1	17.1	17.1	
Motor & Pump P 312	29.2	22.5	22.5	22.5	
Motor & Pump P 313	28.8	22.2	22.2	22.2	
Motor & Pump P 315	31.5	24.8	24.8	24.8	
Motor & Pump P 316	31.5	24.9	24.9	24.9	
Motor & Pump P 317	31.4	24.7	24.7	24.7	
Motor & Pump P 318	27.5	20.9	20.9	20.9	
Motor & Pump P 319	27.3	20.6	20.6	20.6	
Motor & Pump P 327	37.2	30.5	30.5	30.5	
Motor & Pump P 328	37.0	30.3	30.3	30.3	
Motor & Pump P 329	36.6	29.9	29.9	29.9	
Motor & Pump P 451	22.4	15.7	15.7	15.7	
Motor & Pump P 453	22.4	15.7	15.7	15.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 454	22.6	16.0	16.0	16.0	
Motor & Pump P 457	22.1	15.4	15.4	15.4	
Motor & Pump P 458	22.0	15.4	15.4	15.4	
Motor & Pump P 459	22.3	15.6	15.6	15.6	
Motor & Pump P 56A/B	20.1	13.4	13.4	13.4	
P602 100 HP	28.1	21.4	21.4	21.4	
P603 60 HP	26.6	20.0	20.0	20.0	
P605 40 HP	27.1	20.4	20.4	20.4	
P607 15 HP	24.7	18.1	18.1	18.1	
P608 15 HP	25.2	18.6	18.6	18.6	
P611 15 HP	24.3	17.7	17.7	17.7	
P614/615 20 HP	25.9	19.3	19.3	19.3	
Rail Cars Bumping 6 times in during delivery	24.4	27.4			
Scanner Blower C-084A/B	22.1	15.4	15.4	15.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	7.3	0.6	0.6	0.6	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	5.6	-1.0	-1.0	-1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	4.9	-1.7	-1.7	-1.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	3.8	-2.9	-2.9	-2.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	3.5	-3.2	-3.2	-3.2	
Solar Turbine T70 Boiler-Boiler East 1	12.2	5.5	5.5	5.5	
Solar Turbine T70 Boiler-Boiler East 2	15.1	8.4	8.4	8.4	
Solar Turbine T70 Boiler-Boiler North 1	25.0	18.3	18.3	18.3	
Solar Turbine T70 Boiler-Boiler North 2	16.1	9.4	9.4	9.4	
Solar Turbine T70 Boiler-Boiler Roof	22.6	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler South	21.3	14.6	14.6	14.6	
Solar Turbine T70 Boiler-Boiler South 2	13.0	6.3	6.3	6.3	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	30.7	24.0	24.0	24.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	36.2	29.6	29.6	29.6	
Solar Turbine T70 Enclosure-T70 Encl. Roof	33.7	27.1	27.1	27.1	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	33.0	26.3	26.3	26.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	21.0	14.3	14.3	14.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.5	14.9	14.9	14.9	
Solar Turbine T70 SCR-SCR Unit Roof	15.0	8.3	8.3	8.3	
Solar Turbine T70 SCR-SCR Unit NE	7.8	1.1	1.1	1.1	
Solar Turbine T70 SCR-SCR Unit North	13.8	7.2	7.2	7.2	
Solar Turbine T70 SCR-SCR Unit NW	8.3	1.6	1.6	1.6	
Solar Turbine T70 SCR-SCR Unit SE	5.2	-1.5	-1.5	-1.5	
Solar Turbine T70 SCR-SCR Unit South	10.2	3.5	3.5	3.5	
Solar Turbine T70 SCR-SCR Unit SW	4.4	-2.2	-2.2	-2.2	
xxxx xxxx xxxx xxxx	26.0	24.5	22.7	16.8	
xxxx xxxx xxxx xxxx	26.2	24.7	23.0	17.1	
Tank Farm Pump 1	51.4	44.7	44.7	44.7	
Tank Farm Pump 2	34.7	28.0	28.0	28.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 3	34.9	28.2	28.2	28.2	
UP Train Locomotive Delivery and Pickup	22.5	25.5			
Vaporizer Blower 1	20.5	13.8	13.8	13.8	
Vaporizer Blower 2	20.4	13.8	13.8	13.8	
Vaporizer Inlet Silencer	9.9	3.2	3.2	3.2	
Vaporizer Motor 1	14.3	7.7	7.7	7.7	
Vaporizer Motor 2	14.3	7.6	7.6	7.6	
Water Treatment Pumps P-056A&B	19.7	13.0	13.0	13.0	
XF-1502 Splitter Area 1	33.9	27.2	27.2	27.2	
XF-1502 Splitter Area 2	34.1	27.4	27.4	27.4	
XF-1504 Splitter Area 1	33.9	27.3	27.3	27.3	
XF-1504 Splitter Area 2	35.7	29.1	29.1	29.1	
XF - 1601	37.5	30.8	30.8	30.8	
XF - 1602	37.7	31.0	31.0	31.0	
XF 304, XF 321	42.5	35.8	35.8	35.8	
XF 313, XF 314	41.5	34.9	34.9	34.9	
XF 335-1, XF 335-2	44.3	37.7	37.7	37.7	
XF 503	41.6	35.0	35.0	35.0	
XF Module 1510	37.2	30.6	30.6	30.6	
XF Module 1519	37.7	31.0	31.0	31.0	
Receiver HWES Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.7 dB(A) Ld 7-19 dB(A) Leq,N 58.9 dB(A) Le 19					
2.8-Open Intake	35.8	29.1	29.1	29.1	
2011 Track Mobile switch moving rail cars 33 cars per day	29.9	32.9			
Air Compressor C 1	51.7	45.1	45.1	45.1	
Air Compressor Pump, Motor Fan CMXF -055	27.5	20.8	20.8	20.8	
Asphalt Production	50.6	44.0	44.0	44.0	
BFW Pumps P-073A&B	22.7	16.1	16.1	16.1	
Blower F 401	51.8	45.2	45.2	45.2	
Boiler Crude Unit-Heater Opening	25.6	19.0	19.0	19.0	
Brine Transfer P-085	24.4	17.7	17.7	17.7	
Burner H301 North	37.6	30.9	30.9	30.9	
Burner H301 South	36.0	29.4	29.4	29.4	
Burner H302 North	38.7	32.1	32.1	32.1	
Burner H302 South	34.9	28.2	28.2	28.2	
Burner H303 North	37.3	30.7	30.7	30.7	
Burner H303 South	37.0	30.3	30.3	30.3	
Burner H304 North	43.4	36.7	36.7	36.7	
Burner H304 South	32.5	25.9	25.9	25.9	
Burner H305 North	37.0	30.3	30.3	30.3	
Burner H305 South	40.7	34.0	34.0	34.0	
Burner H306 North	34.7	28.0	28.0	28.0	
Burner H306 South	34.6	27.9	27.9	27.9	
Compressor House C301, C302, C 124-Comp House East 1	28.9	22.2	22.2	22.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	29.2	22.5	22.5	22.5	
Compressor House C301, C302, C 124-Comp House North	46.7	40.1	40.1	40.1	
Compressor House C301, C302, C 124-Comp House South 1	32.5	25.8	25.8	25.8	
Compressor House C301, C302, C 124-Comp House South 2	22.9	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House West	39.2	32.6	32.6	32.6	
Cooling Tower CT 510-CT 510 East Side	24.8	18.1	18.1	18.1	
Cooling Tower CT 510-CT 510 West Side	39.5	32.8	32.8	32.8	
Cooling Tower CT 511-CT 511 East Side	28.5	21.8	21.8	21.8	
Cooling Tower CT 511-CT 511 West Side	44.4	37.7	37.7	37.7	
Cooling Tower M 512	22.0	15.4	15.4	15.4	
Cooling Tower M 513	29.3	22.7	22.7	22.7	
Cooling Tower M 514	22.3	15.7	15.7	15.7	
Crude Plant Operation 80 dB/m^2 at 1 m	45.5	38.8	38.8	38.8	
xxxx xxxx xxxx xxxx	28.8	22.2	22.2	22.2	
xxxx xxxx xxxx xxxx	31.0	24.3	24.3	24.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	46.6	40.0	40.0	40.0	
xxxx xxxx xxxx xxxx	29.4	22.5	24.5	22.5	
CT Y-600-CT Y-600 North	33.2	26.5	26.5	26.5	
CT Y-600-CT Y-600 South	23.5	16.8	16.8	16.8	
Deaerator Skid P-058A&B	35.9	29.2	29.2	29.2	
xxxx xxxx xxxx xxxx	51.6	50.1	48.3	42.4	
xxxx xxxx xxxx xxxx	51.2	49.7	48.0	42.1	
Exhaust Stack	46.2	39.5	39.5	39.5	
F.G. After Cooler XF-083ABC	40.6	34.0	34.0	34.0	
Fan Y-600	42.7	36.1	36.1	36.1	
FG Compressor Enclosure-FG Enclosure Roof	24.7	18.0	18.0	18.0	
FG Compressor Enclosure-FG Enclosure East	15.3	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure East Louver 1	-1.3	-8.0	-8.0	-8.0	
FG Compressor Enclosure-FG Enclosure North	25.6	18.9	18.9	18.9	
FG Compressor Enclosure-FG Enclosure South	8.9	2.3	2.3	2.3	
FG Compressor Enclosure-FG Enclosure West	23.2	16.5	16.5	16.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	10.5	3.8	3.8	3.8	
Fin Fan XF 616 - Above	26.9	20.3	20.3	20.3	
Fin Fan XF 616 - Below	37.1	30.5	30.5	30.5	
Fin Fan XF 617 - Above	25.4	18.7	18.7	18.7	
Fin Fan XF 617 - Below	35.0	28.3	28.3	28.3	
Heater # 5-Heater	21.1	14.5	14.5	14.5	
Heater # 5-Heater	17.1	10.5	10.5	10.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	17.2	10.5	10.5	10.5	
Heater H 601	27.7	21.0	21.0	21.0	
Hydro Heater H-402	37.5	30.9	30.9	30.9	
ID Fan	59.0	52.3	52.3	52.3	
ID Fan 200 HP Motor	45.3	38.7	38.7	38.7	
Incinirator Compressor & Motor	24.0	17.3	17.3	17.3	
Incinirator Fin Fan	27.0	20.3	20.3	20.3	
xxxx xxxx xxxx xxxx	29.1	27.6	25.8	19.9	
xxxx xxxx xxxx xxxx	29.2	27.7	26.0	20.1	
Lub Oil Cooler XF-061	39.7	33.0	33.0	33.0	
Misc pumps motors	30.1	23.4	23.4	23.4	
Motor & Pump P - 1502 Splitter Reflux Pu	32.2	25.5	25.5	25.5	
Motor & Pump P - 1503 Splitter Bottoms P	36.7	30.1	30.1	30.1	
Motor & Pump P - 1504 Splitter Bottoms P	35.2	28.5	28.5	28.5	
Motor & Pump P - 1507 Reactor Pump	30.2	23.5	23.5	23.5	
Motor & Pump P - 1508 Reactor Pump	31.9	25.2	25.2	25.2	
Motor & Pump P - 1511 Stabilizer Reflux	42.9	36.2	36.2	36.2	
Motor & Pump P - 1512 Stabilizer Reflux	41.9	35.3	35.3	35.3	
Motor & Pump P - 1513 Caustic Circulatin	39.5	32.8	32.8	32.8	
Motor & Pump P - 1514 Caustic Circulatin	41.1	34.5	34.5	34.5	
Motor & Pump P 120/121	36.8	30.1	30.1	30.1	
Motor & Pump P 1505 FRESH FEED PUMPS	29.8	23.2	23.2	23.2	
Motor & Pump P 1506 FRESH FEED PUMPS	30.0	23.3	23.3	23.3	
Motor & Pump P 1509 Chloride Injection P	41.7	35.0	35.0	35.0	
Motor & Pump P 1510 Chloride Injection P	41.8	35.1	35.1	35.1	
Motor & Pump P 1601 A	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 B	41.3	34.6	34.6	34.6	
Motor & Pump P 1602 A	40.3	33.7	33.7	33.7	
Motor & Pump P 1602 B	39.4	32.7	32.7	32.7	
Motor & Pump P 211/212	32.6	26.0	26.0	26.0	
Motor & Pump P 215/214	24.9	18.2	18.2	18.2	
Motor & Pump P 216	25.2	18.6	18.6	18.6	
Motor & Pump P 217/218	25.2	18.5	18.5	18.5	
Motor & Pump P 300	38.2	31.5	31.5	31.5	
Motor & Pump P 301	43.3	36.6	36.6	36.6	
Motor & Pump P 302	38.1	31.5	31.5	31.5	
Motor & Pump P 303	38.3	31.6	31.6	31.6	
Motor & Pump P 305	38.5	31.9	31.9	31.9	
Motor & Pump P 306	49.9	43.2	43.2	43.2	
Motor & Pump P 307	43.5	36.8	36.8	36.8	
Motor & Pump P 309	38.4	31.7	31.7	31.7	
Motor & Pump P 312	34.3	27.6	27.6	27.6	
Motor & Pump P 313	34.4	27.7	27.7	27.7	
Motor & Pump P 315	35.9	29.2	29.2	29.2	
Motor & Pump P 316	39.7	33.0	33.0	33.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 317	41.2	34.5	34.5	34.5	
Motor & Pump P 318	33.7	27.0	27.0	27.0	
Motor & Pump P 319	33.3	26.6	26.6	26.6	
Motor & Pump P 327	48.7	42.0	42.0	42.0	
Motor & Pump P 328	50.9	44.2	44.2	44.2	
Motor & Pump P 329	49.4	42.8	42.8	42.8	
Motor & Pump P 451	28.0	21.3	21.3	21.3	
Motor & Pump P 453	24.7	18.1	18.1	18.1	
Motor & Pump P 454	27.9	21.2	21.2	21.2	
Motor & Pump P 457	25.4	18.7	18.7	18.7	
Motor & Pump P 458	28.9	22.3	22.3	22.3	
Motor & Pump P 459	27.8	21.2	21.2	21.2	
Motor & Pump P 56A/B	25.6	18.9	18.9	18.9	
P602 100 HP	26.6	19.9	19.9	19.9	
P603 60 HP	21.6	14.9	14.9	14.9	
P605 40 HP	21.8	15.2	15.2	15.2	
P607 15 HP	29.2	22.5	22.5	22.5	
P608 15 HP	24.2	17.5	17.5	17.5	
P611 15 HP	22.2	15.5	15.5	15.5	
P614/615 20 HP	31.3	24.7	24.7	24.7	
Rail Cars Bumping 6 times in during delivery	31.2	34.2			
Scanner Blower C-084A/B	18.4	11.7	11.7	11.7	
Solar Turbine T70 2nd Boiler-2nd Boiler North	12.3	5.6	5.6	5.6	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	10.6	4.0	4.0	4.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	11.6	4.9	4.9	4.9	
Solar Turbine T70 2nd Boiler-2nd Boiler South	5.3	-1.3	-1.3	-1.3	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	5.4	-1.3	-1.3	-1.3	
Solar Turbine T70 Boiler-Boiler East 1	8.1	1.5	1.5	1.5	
Solar Turbine T70 Boiler-Boiler East 2	9.7	3.0	3.0	3.0	
Solar Turbine T70 Boiler-Boiler North 1	27.8	21.1	21.1	21.1	
Solar Turbine T70 Boiler-Boiler North 2	20.8	14.2	14.2	14.2	
Solar Turbine T70 Boiler-Boiler Roof	25.3	18.6	18.6	18.6	
Solar Turbine T70 Boiler-Boiler South	20.3	13.6	13.6	13.6	
Solar Turbine T70 Boiler-Boiler South 2	10.8	4.1	4.1	4.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	26.7	20.1	20.1	20.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	41.0	34.3	34.3	34.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	40.2	33.5	33.5	33.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	31.8	25.1	25.1	25.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	31.3	24.6	24.6	24.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	18.7	12.1	12.1	12.1	
Solar Turbine T70 SCR-SCR Unit Roof	18.0	11.4	11.4	11.4	
Solar Turbine T70 SCR-SCR Unit NE	11.7	5.0	5.0	5.0	
Solar Turbine T70 SCR-SCR Unit North	17.3	10.6	10.6	10.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 SCR-SCR Unit NW	13.7	7.0	7.0	7.0	
Solar Turbine T70 SCR-SCR Unit SE	3.2	-3.5	-3.5	-3.5	
Solar Turbine T70 SCR-SCR Unit South	10.5	3.8	3.8	3.8	
Solar Turbine T70 SCR-SCR Unit SW	5.6	-1.1	-1.1	-1.1	
xxxx xxxx xxxx xxxx	23.2	21.7	20.0	14.1	
xxxx xxxx xxxx xxxx	23.4	21.9	20.2	14.3	
Tank Farm Pump 1	24.5	17.8	17.8	17.8	
Tank Farm Pump 2	25.3	18.7	18.7	18.7	
Tank Farm Pump 3	25.8	19.1	19.1	19.1	
UP Train Locomotive Delivery and Pickup	30.9	33.9			
Vaporizer Blower 1	20.7	14.0	14.0	14.0	
Vaporizer Blower 2	20.8	14.1	14.1	14.1	
Vaporizer Inlet Silencer	10.6	3.9	3.9	3.9	
Vaporizer Motor 1	14.6	7.9	7.9	7.9	
Vaporizer Motor 2	14.7	8.0	8.0	8.0	
Water Treatment Pumps P-056A&B	20.8	14.2	14.2	14.2	
XF-1502 Splitter Area 1	46.1	39.5	39.5	39.5	
XF-1502 Splitter Area 2	46.0	39.3	39.3	39.3	
XF-1504 Splitter Area 1	42.8	36.2	36.2	36.2	
XF-1504 Splitter Area 2	42.8	36.1	36.1	36.1	
XF - 1601	41.1	34.4	34.4	34.4	
XF - 1602	41.0	34.3	34.3	34.3	
XF 304, XF 321	53.3	46.7	46.7	46.7	
XF 313, XF 314	52.1	45.4	45.4	45.4	
XF 335-1, XF 335-2	56.1	49.5	49.5	49.5	
XF 503	48.3	41.6	41.6	41.6	
XF Module 1510	48.3	41.6	41.6	41.6	
XF Module 1519	50.2	43.6	43.6	43.6	
Receiver PHS Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 68.1 dB(A)	Ld 7-19 dB(A)	Leq,N 66.1 dB(A)	Le 19-2
2.8-Open Intake	38.2	31.5	31.5	31.5	
2011 Track Mobile switch moving rail cars 33 cars per day	32.0	35.0			
Air Compressor C 1	46.7	40.0	40.0	40.0	
Air Compressor Pump, Motor Fan CMXF -055	27.5	20.8	20.8	20.8	
Asphalt Production	49.5	42.9	42.9	42.9	
BFW Pumps P-073A&B	21.3	14.6	14.6	14.6	
Blower F 401	51.6	44.9	44.9	44.9	
Boiler Crude Unit-Heater Opening	23.6	16.9	16.9	16.9	
Brine Transfer P-085	23.4	16.7	16.7	16.7	
Burner H301 North	54.7	48.0	48.0	48.0	
Burner H301 South	42.9	36.3	36.3	36.3	
Burner H302 North	50.6	43.9	43.9	43.9	
Burner H302 South	33.7	27.0	27.0	27.0	
Burner H303 North	45.8	39.2	39.2	39.2	
Burner H303 South	30.6	23.9	23.9	23.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Burner H304 North	40.5	33.8	33.8	33.8	
Burner H304 South	43.1	36.4	36.4	36.4	
Burner H305 North	47.8	41.1	41.1	41.1	
Burner H305 South	39.3	32.6	32.6	32.6	
Burner H306 North	46.8	40.1	40.1	40.1	
Burner H306 South	34.6	27.9	27.9	27.9	
Compressor House C301, C302, C 124-Comp House East 1	27.8	21.2	21.2	21.2	
Compressor House C301, C302, C 124-Comp House East 2	32.7	26.0	26.0	26.0	
Compressor House C301, C302, C 124-Comp House North	48.5	41.9	41.9	41.9	
Compressor House C301, C302, C 124-Comp House South 1	33.6	26.9	26.9	26.9	
Compressor House C301, C302, C 124-Comp House South 2	27.3	20.6	20.6	20.6	
Compressor House C301, C302, C 124-Comp House West	39.0	32.3	32.3	32.3	
Cooling Tower CT 510-CT 510 East Side	32.4	25.7	25.7	25.7	
Cooling Tower CT 510-CT 510 West Side	42.3	35.6	35.6	35.6	
Cooling Tower CT 511-CT 511 East Side	22.4	15.7	15.7	15.7	
Cooling Tower CT 511-CT 511 West Side	43.0	36.4	36.4	36.4	
Cooling Tower M 512	26.4	19.7	19.7	19.7	
Cooling Tower M 513	39.4	32.7	32.7	32.7	
Cooling Tower M 514	27.8	21.2	21.2	21.2	
Crude Plant Operation 80 dB/m^2 at 1 m	45.8	39.2	39.2	39.2	
xxxx xxxx xxxx xxxx	27.9	21.3	21.3	21.3	
xxxx xxxx xxxx xxxx	32.2	25.5	25.5	25.5	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	47.2	40.6	40.6	40.6	
xxxx xxxx xxxx xxxx	31.5	24.6	26.4	24.6	
CT Y-600-CT Y-600 North	29.1	22.4	22.4	22.4	
CT Y-600-CT Y-600 South	22.4	15.7	15.7	15.7	
Deaerator Skid P-058A&B	36.2	29.5	29.5	29.5	
xxxx xxxx xxxx xxxx	62.1	60.6	58.8	52.9	
xxxx xxxx xxxx xxxx	64.7	63.2	61.5	55.6	
Exhaust Stack	43.3	36.6	36.6	36.6	
F.G. After Cooler XF-083ABC	40.6	33.9	33.9	33.9	
Fan Y-600	37.6	30.9	30.9	30.9	
FG Compressor Enclosure-FG Enclosure Roof	24.6	17.9	17.9	17.9	
FG Compressor Enclosure-FG Enclosure East	13.8	7.2	7.2	7.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	-1.7	-8.4	-8.4	-8.4	
FG Compressor Enclosure-FG Enclosure North	24.7	18.0	18.0	18.0	
FG Compressor Enclosure-FG Enclosure South	7.6	0.9	0.9	0.9	
FG Compressor Enclosure-FG Enclosure West	21.9	15.3	15.3	15.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FG Compressor Enclosure-FG Enclosure West Louver 3	5.6	-1.1	-1.1	-1.1	
Fin Fan XF 616 - Above	23.6	16.9	16.9	16.9	
Fin Fan XF 616 - Below	34.0	27.4	27.4	27.4	
Fin Fan XF 617 - Above	21.7	15.0	15.0	15.0	
Fin Fan XF 617 - Below	31.3	24.6	24.6	24.6	
Heater # 5-Heater	17.6	10.9	10.9	10.9	
Heater # 5-Heater	16.9	10.2	10.2	10.2	
Heater # 5-Heater	16.8	10.1	10.1	10.1	
Heater H 601	21.0	14.4	14.4	14.4	
Hydro Heater H-402	34.7	28.0	28.0	28.0	
ID Fan	54.1	47.5	47.5	47.5	
ID Fan 200 HP Motor	44.7	38.1	38.1	38.1	
Incinirator Compressor & Motor	30.9	24.3	24.3	24.3	
Incinirator Fin Fan	32.8	26.2	26.2	26.2	
xxxx xxxx xxxx xxxx	28.3	26.8	25.1	19.2	
xxxx xxxx xxxx xxxx	28.5	27.0	25.3	19.4	
Lub Oil Cooler XF-061	42.3	35.6	35.6	35.6	
Misc pumps motors	38.3	31.6	31.6	31.6	
Motor & Pump P - 1502 Splitter Reflux Pu	35.4	28.7	28.7	28.7	
Motor & Pump P - 1503 Splitter Bottoms P	32.2	25.5	25.5	25.5	
Motor & Pump P - 1504 Splitter Bottoms P	32.2	25.5	25.5	25.5	
Motor & Pump P - 1507 Reactor Pump	35.5	28.8	28.8	28.8	
Motor & Pump P - 1508 Reactor Pump	36.6	29.9	29.9	29.9	
Motor & Pump P - 1511 Stabilizer Reflux	37.3	30.6	30.6	30.6	
Motor & Pump P - 1512 Stabilizer Reflux	39.2	32.5	32.5	32.5	
Motor & Pump P - 1513 Caustic Circulatin	39.8	33.1	33.1	33.1	
Motor & Pump P - 1514 Caustic Circulatin	40.0	33.4	33.4	33.4	
Motor & Pump P 120/121	40.3	33.7	33.7	33.7	
Motor & Pump P 1505 FRESH FEED PUMPS	36.4	29.8	29.8	29.8	
Motor & Pump P 1506 FRESH FEED PUMPS	37.4	30.7	30.7	30.7	
Motor & Pump P 1509 Chloride Injection P	33.9	27.3	27.3	27.3	
Motor & Pump P 1510 Chloride Injection P	37.3	30.6	30.6	30.6	
Motor & Pump P 1601 A	38.5	31.9	31.9	31.9	
Motor & Pump P 1601 B	38.8	32.2	32.2	32.2	
Motor & Pump P 1602 A	38.5	31.8	31.8	31.8	
Motor & Pump P 1602 B	39.3	32.6	32.6	32.6	
Motor & Pump P 211/212	24.1	17.4	17.4	17.4	
Motor & Pump P 215/214	24.8	18.2	18.2	18.2	
Motor & Pump P 216	29.6	22.9	22.9	22.9	
Motor & Pump P 217/218	23.7	17.0	17.0	17.0	
Motor & Pump P 300	43.2	36.6	36.6	36.6	
Motor & Pump P 301	49.7	43.0	43.0	43.0	
Motor & Pump P 302	42.5	35.9	35.9	35.9	
Motor & Pump P 303	41.8	35.1	35.1	35.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 305	42.3	35.6	35.6	35.6	
Motor & Pump P 306	64.2	57.5	57.5	57.5	
Motor & Pump P 307	46.6	39.9	39.9	39.9	
Motor & Pump P 309	48.1	41.4	41.4	41.4	
Motor & Pump P 312	44.2	37.5	37.5	37.5	
Motor & Pump P 313	46.7	40.0	40.0	40.0	
Motor & Pump P 315	44.9	38.3	38.3	38.3	
Motor & Pump P 316	41.6	34.9	34.9	34.9	
Motor & Pump P 317	39.2	32.5	32.5	32.5	
Motor & Pump P 318	39.7	33.0	33.0	33.0	
Motor & Pump P 319	41.0	34.4	34.4	34.4	
Motor & Pump P 327	65.6	58.9	58.9	58.9	
Motor & Pump P 328	63.0	56.3	56.3	56.3	
Motor & Pump P 329	65.5	58.8	58.8	58.8	
Motor & Pump P 451	33.5	26.8	26.8	26.8	
Motor & Pump P 453	29.8	23.1	23.1	23.1	
Motor & Pump P 454	30.8	24.1	24.1	24.1	
Motor & Pump P 457	30.9	24.2	24.2	24.2	
Motor & Pump P 458	33.6	26.9	26.9	26.9	
Motor & Pump P 459	30.8	24.1	24.1	24.1	
Motor & Pump P 56A/B	32.7	26.0	26.0	26.0	
P602 100 HP	23.0	16.4	16.4	16.4	
P603 60 HP	18.9	12.2	12.2	12.2	
P605 40 HP	19.3	12.6	12.6	12.6	
P607 15 HP	17.4	10.7	10.7	10.7	
P608 15 HP	17.5	10.9	10.9	10.9	
P611 15 HP	16.3	9.6	9.6	9.6	
P614/615 20 HP	20.8	14.1	14.1	14.1	
Rail Cars Bumping 6 times in during delivery	33.1	36.1			
Scanner Blower C-084A/B	20.4	13.8	13.8	13.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	8.4	1.7	1.7	1.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	7.6	1.0	1.0	1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	7.8	1.1	1.1	1.1	
Solar Turbine T70 2nd Boiler-2nd Boiler South	1.8	-4.8	-4.8	-4.8	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	3.9	-2.7	-2.7	-2.7	
Solar Turbine T70 Boiler-Boiler East 1	10.7	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler East 2	14.3	7.7	7.7	7.7	
Solar Turbine T70 Boiler-Boiler North 1	32.9	26.3	26.3	26.3	
Solar Turbine T70 Boiler-Boiler North 2	22.2	15.6	15.6	15.6	
Solar Turbine T70 Boiler-Boiler Roof	27.4	20.7	20.7	20.7	
Solar Turbine T70 Boiler-Boiler South	20.5	13.8	13.8	13.8	
Solar Turbine T70 Boiler-Boiler South 2	12.3	5.6	5.6	5.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	26.6	19.9	19.9	19.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	41.4	34.7	34.7	34.7	
Solar Turbine T70 Enclosure-T70 Encl. Roof	39.7	33.1	33.1	33.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	31.2	24.6	24.6	24.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	33.8	27.2	27.2	27.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	19.2	12.5	12.5	12.5	
Solar Turbine T70 SCR-SCR Unit Roof	16.5	9.8	9.8	9.8	
Solar Turbine T70 SCR-SCR Unit NE	8.0	1.3	1.3	1.3	
Solar Turbine T70 SCR-SCR Unit North	20.8	14.2	14.2	14.2	
Solar Turbine T70 SCR-SCR Unit NW	9.0	2.3	2.3	2.3	
Solar Turbine T70 SCR-SCR Unit SE	3.6	-3.1	-3.1	-3.1	
Solar Turbine T70 SCR-SCR Unit South	5.9	-0.8	-0.8	-0.8	
Solar Turbine T70 SCR-SCR Unit SW	1.3	-5.4	-5.4	-5.4	
xxxx xxxx xxxx xxxx	31.2	29.7	28.0	22.1	
xxxx xxxx xxxx xxxx	31.2	29.7	28.0	22.1	
Tank Farm Pump 1	25.5	18.9	18.9	18.9	
Tank Farm Pump 2	27.6	21.0	21.0	21.0	
Tank Farm Pump 3	28.9	22.2	22.2	22.2	
UP Train Locomotive Delivery and Pickup	36.2	39.2			
Vaporizer Blower 1	30.4	23.7	23.7	23.7	
Vaporizer Blower 2	30.4	23.7	23.7	23.7	
Vaporizer Inlet Silencer	18.0	11.3	11.3	11.3	
Vaporizer Motor 1	24.5	17.8	17.8	17.8	
Vaporizer Motor 2	24.5	17.8	17.8	17.8	
Water Treatment Pumps P-056A&B	24.3	17.6	17.6	17.6	
XF-1502 Splitter Area 1	45.9	39.2	39.2	39.2	
XF-1502 Splitter Area 2	46.5	39.9	39.9	39.9	
XF-1504 Splitter Area 1	45.7	39.0	39.0	39.0	
XF-1504 Splitter Area 2	45.3	38.6	38.6	38.6	
XF - 1601	41.5	34.8	34.8	34.8	
XF - 1602	40.9	34.2	34.2	34.2	
XF 304, XF 321	54.8	48.1	48.1	48.1	
XF 313, XF 314	59.6	52.9	52.9	52.9	
XF 335-1, XF 335-2	59.3	52.6	52.6	52.6	
XF 503	48.1	41.5	41.5	41.5	
XF Module 1510	46.9	40.3	40.3	40.3	
XF Module 1519	46.9	40.3	40.3	40.3	
Receiver RMHP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.0 dB(A) Ld 7-19 dB(A) Leq,N 62.2 dB(A) Le 19					
2.8-Open Intake	35.3	28.6	28.6	28.6	
2011 Track Mobile switch moving rail cars 33 cars per day	21.0	24.0			
Air Compressor C 1	37.4	30.7	30.7	30.7	
Air Compressor Pump, Motor Fan CMXF -055	25.5	18.8	18.8	18.8	
Asphalt Production	42.5	35.9	35.9	35.9	
BFW Pumps P-073A&B	23.4	16.7	16.7	16.7	
Blower F 401	40.7	34.0	34.0	34.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Crude Unit-Heater Opening	30.7	24.0	24.0	24.0	
Brine Transfer P-085	23.2	16.5	16.5	16.5	
Burner H301 North	24.4	17.8	17.8	17.8	
Burner H301 South	15.9	9.2	9.2	9.2	
Burner H302 North	18.2	11.5	11.5	11.5	
Burner H302 South	16.8	10.1	10.1	10.1	
Burner H303 North	16.2	9.6	9.6	9.6	
Burner H303 South	16.0	9.3	9.3	9.3	
Burner H304 North	22.1	15.4	15.4	15.4	
Burner H304 South	16.0	9.3	9.3	9.3	
Burner H305 North	28.8	22.1	22.1	22.1	
Burner H305 South	15.2	8.6	8.6	8.6	
Burner H306 North	27.7	21.0	21.0	21.0	
Burner H306 South	13.9	7.3	7.3	7.3	
Compressor House C301, C302, C 124-Comp House East 1	29.7	23.1	23.1	23.1	
Compressor House C301, C302, C 124-Comp House East 2	28.5	21.8	21.8	21.8	
Compressor House C301, C302, C 124-Comp House North	37.3	30.6	30.6	30.6	
Compressor House C301, C302, C 124-Comp House South 1	27.4	20.7	20.7	20.7	
Compressor House C301, C302, C 124-Comp House South 2	20.9	14.2	14.2	14.2	
Compressor House C301, C302, C 124-Comp House West	11.0	4.3	4.3	4.3	
Cooling Tower CT 510-CT 510 East Side	21.8	15.1	15.1	15.1	
Cooling Tower CT 510-CT 510 West Side	10.8	4.1	4.1	4.1	
Cooling Tower CT 511-CT 511 East Side	28.5	21.8	21.8	21.8	
Cooling Tower CT 511-CT 511 West Side	20.9	14.3	14.3	14.3	
Cooling Tower M 512	15.6	8.9	8.9	8.9	
Cooling Tower M 513	15.9	9.2	9.2	9.2	
Cooling Tower M 514	15.3	8.6	8.6	8.6	
Crude Plant Operation 80 dB/m^2 at 1 m	44.1	37.5	37.5	37.5	
xxxx xxxx xxxx xxxx	58.8	52.1	52.1	52.1	
xxxx xxxx xxxx xxxx	38.0	31.3	31.3	31.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	44.6	38.0	38.0	38.0	
xxxx xxxx xxxx xxxx	49.8	43.1	43.8	43.1	
CT Y-600-CT Y-600 North	32.4	25.7	25.7	25.7	
CT Y-600-CT Y-600 South	23.7	17.0	17.0	17.0	
Deaerator Skid P-058A&B	33.9	27.2	27.2	27.2	
xxxx xxxx xxxx xxxx	32.7	31.2	29.5	23.6	
xxxx xxxx xxxx xxxx	32.7	31.2	29.5	23.6	
Exhaust Stack	38.9	32.2	32.2	32.2	
F.G. After Cooler XF-083ABC	27.9	21.3	21.3	21.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Fan Y-600	37.8	31.2	31.2	31.2	
FG Compressor Enclosure-FG Enclosure Roof	20.4	13.7	13.7	13.7	
FG Compressor Enclosure-FG Enclosure East	16.5	9.8	9.8	9.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	0.1	-6.6	-6.6	-6.6	
FG Compressor Enclosure-FG Enclosure North	23.3	16.7	16.7	16.7	
FG Compressor Enclosure-FG Enclosure South	4.6	-2.1	-2.1	-2.1	
FG Compressor Enclosure-FG Enclosure West	10.9	4.3	4.3	4.3	
FG Compressor Enclosure-FG Enclosure West Louver 3	-5.1	-11.8	-11.8	-11.8	
Fin Fan XF 616 - Above	26.1	19.4	19.4	19.4	
Fin Fan XF 616 - Below	38.1	31.5	31.5	31.5	
Fin Fan XF 617 - Above	23.0	16.3	16.3	16.3	
Fin Fan XF 617 - Below	34.2	27.6	27.6	27.6	
Heater # 5-Heater	19.7	13.0	13.0	13.0	
Heater # 5-Heater	23.3	16.6	16.6	16.6	
Heater # 5-Heater	19.5	12.8	12.8	12.8	
Heater H 601	20.2	13.6	13.6	13.6	
Hydro Heater H-402	18.6	11.9	11.9	11.9	
ID Fan	28.4	21.7	21.7	21.7	
ID Fan 200 HP Motor	21.4	14.7	14.7	14.7	
Incinirator Compressor & Motor	16.7	10.0	10.0	10.0	
Incinirator Fin Fan	20.0	13.4	13.4	13.4	
xxxx xxxx xxxx xxxx	68.5	67.0	65.3	59.4	
xxxx xxxx xxxx xxxx	66.6	65.1	63.4	57.5	
Lub Oil Cooler XF-061	37.7	31.0	31.0	31.0	
Misc pumps motors	25.4	18.7	18.7	18.7	
Motor & Pump P - 1502 Splitter Reflux Pu	20.3	13.6	13.6	13.6	
Motor & Pump P - 1503 Splitter Bottoms P	23.3	16.6	16.6	16.6	
Motor & Pump P - 1504 Splitter Bottoms P	26.0	19.3	19.3	19.3	
Motor & Pump P - 1507 Reactor Pump	23.9	17.2	17.2	17.2	
Motor & Pump P - 1508 Reactor Pump	24.0	17.3	17.3	17.3	
Motor & Pump P - 1511 Stabilizer Reflux	25.8	19.1	19.1	19.1	
Motor & Pump P - 1512 Stabilizer Reflux	25.8	19.1	19.1	19.1	
Motor & Pump P - 1513 Caustic Circulatin	25.7	19.0	19.0	19.0	
Motor & Pump P - 1514 Caustic Circulatin	25.7	19.0	19.0	19.0	
Motor & Pump P 120/121	22.7	16.0	16.0	16.0	
Motor & Pump P 1505 FRESH FEED PUMPS	13.0	6.4	6.4	6.4	
Motor & Pump P 1506 FRESH FEED PUMPS	16.7	10.1	10.1	10.1	
Motor & Pump P 1509 Chloride Injection P	12.9	6.3	6.3	6.3	
Motor & Pump P 1510 Chloride Injection P	15.1	8.4	8.4	8.4	
Motor & Pump P 1601 A	19.7	13.0	13.0	13.0	
Motor & Pump P 1601 B	19.6	12.9	12.9	12.9	
Motor & Pump P 1602 A	19.5	12.8	12.8	12.8	
Motor & Pump P 1602 B	19.6	13.0	13.0	13.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 211/212	16.6	9.9	9.9	9.9	
Motor & Pump P 215/214	10.4	3.7	3.7	3.7	
Motor & Pump P 216	21.5	14.8	14.8	14.8	
Motor & Pump P 217/218	16.2	9.6	9.6	9.6	
Motor & Pump P 300	24.3	17.7	17.7	17.7	
Motor & Pump P 301	29.3	22.6	22.6	22.6	
Motor & Pump P 302	24.3	17.7	17.7	17.7	
Motor & Pump P 303	19.4	12.8	12.8	12.8	
Motor & Pump P 305	25.2	18.5	18.5	18.5	
Motor & Pump P 306	34.2	27.5	27.5	27.5	
Motor & Pump P 307	26.2	19.5	19.5	19.5	
Motor & Pump P 309	17.7	11.0	11.0	11.0	
Motor & Pump P 312	23.1	16.4	16.4	16.4	
Motor & Pump P 313	23.0	16.4	16.4	16.4	
Motor & Pump P 315	33.8	27.2	27.2	27.2	
Motor & Pump P 316	33.8	27.2	27.2	27.2	
Motor & Pump P 317	33.9	27.2	27.2	27.2	
Motor & Pump P 318	20.8	14.2	14.2	14.2	
Motor & Pump P 319	20.7	14.1	14.1	14.1	
Motor & Pump P 327	29.6	22.9	22.9	22.9	
Motor & Pump P 328	30.4	23.8	23.8	23.8	
Motor & Pump P 329	30.1	23.5	23.5	23.5	
Motor & Pump P 451	16.3	9.6	9.6	9.6	
Motor & Pump P 453	23.4	16.7	16.7	16.7	
Motor & Pump P 454	16.1	9.4	9.4	9.4	
Motor & Pump P 457	23.4	16.7	16.7	16.7	
Motor & Pump P 458	16.3	9.6	9.6	9.6	
Motor & Pump P 459	15.9	9.2	9.2	9.2	
Motor & Pump P 56A/B	9.8	3.2	3.2	3.2	
P602 100 HP	27.2	20.6	20.6	20.6	
P603 60 HP	26.1	19.5	19.5	19.5	
P605 40 HP	26.1	19.5	19.5	19.5	
P607 15 HP	20.5	13.8	13.8	13.8	
P608 15 HP	20.4	13.7	13.7	13.7	
P611 15 HP	20.6	13.9	13.9	13.9	
P614/615 20 HP	23.0	16.4	16.4	16.4	
Rail Cars Bumping 6 times in during delivery	21.6	24.6			
Scanner Blower C-084A/B	20.0	13.3	13.3	13.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	1.3	-5.4	-5.4	-5.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-1.7	-8.4	-8.4	-8.4	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	1.7	-5.0	-5.0	-5.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	0.5	-6.2	-6.2	-6.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-0.9	-7.6	-7.6	-7.6	
Solar Turbine T70 Boiler-Boiler East 1	14.3	7.6	7.6	7.6	
Solar Turbine T70 Boiler-Boiler East 2	14.3	7.6	7.6	7.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Solar Turbine T70 Boiler-Boiler North 1	28.5	21.9	21.9	21.9	
Solar Turbine T70 Boiler-Boiler North 2	16.9	10.3	10.3	10.3	
Solar Turbine T70 Boiler-Boiler Roof	25.4	18.7	18.7	18.7	
Solar Turbine T70 Boiler-Boiler South	18.5	11.8	11.8	11.8	
Solar Turbine T70 Boiler-Boiler South 2	10.2	3.5	3.5	3.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	35.3	28.7	28.7	28.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	39.1	32.5	32.5	32.5	
Solar Turbine T70 Enclosure-T70 Encl. Roof	38.4	31.7	31.7	31.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	31.6	24.9	24.9	24.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	18.5	11.9	11.9	11.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	16.7	10.0	10.0	10.0	
Solar Turbine T70 SCR-SCR Unit Roof	17.7	11.0	11.0	11.0	
Solar Turbine T70 SCR-SCR Unit NE	11.5	4.8	4.8	4.8	
Solar Turbine T70 SCR-SCR Unit North	16.4	9.7	9.7	9.7	
Solar Turbine T70 SCR-SCR Unit NW	0.4	-6.3	-6.3	-6.3	
Solar Turbine T70 SCR-SCR Unit SE	5.9	-0.8	-0.8	-0.8	
Solar Turbine T70 SCR-SCR Unit South	7.7	1.1	1.1	1.1	
Solar Turbine T70 SCR-SCR Unit SW	2.0	-4.7	-4.7	-4.7	
xxxx xxxx xxxx xxxx	38.9	37.4	35.7	29.8	
xxxx xxxx xxxx xxxx	39.0	37.5	35.8	29.9	
Tank Farm Pump 1	27.1	20.4	20.4	20.4	
Tank Farm Pump 2	24.2	17.5	17.5	17.5	
Tank Farm Pump 3	24.3	17.6	17.6	17.6	
UP Train Locomotive Delivery and Pickup	17.8	20.8			
Vaporizer Blower 1	21.7	15.0	15.0	15.0	
Vaporizer Blower 2	23.9	17.3	17.3	17.3	
Vaporizer Inlet Silencer	12.8	6.1	6.1	6.1	
Vaporizer Motor 1	15.7	9.0	9.0	9.0	
Vaporizer Motor 2	16.5	9.9	9.9	9.9	
Water Treatment Pumps P-056A&B	19.6	13.0	13.0	13.0	
XF-1502 Splitter Area 1	33.7	27.1	27.1	27.1	
XF-1502 Splitter Area 2	31.6	24.9	24.9	24.9	
XF-1504 Splitter Area 1	33.7	27.1	27.1	27.1	
XF-1504 Splitter Area 2	31.6	24.9	24.9	24.9	
XF - 1601	30.6	23.9	23.9	23.9	
XF - 1602	30.6	24.0	24.0	24.0	
XF 304, XF 321	39.5	32.8	32.8	32.8	
XF 313, XF 314	37.4	30.7	30.7	30.7	
XF 335-1, XF 335-2	41.0	34.3	34.3	34.3	
XF 503	39.1	32.5	32.5	32.5	
XF Module 1510	28.4	21.7	21.7	21.7	
XF Module 1519	37.8	31.1	31.1	31.1	
Receiver RLCTP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.4 dB(A) Ld 7-19 dB(A) Leq,N 58.7 dB(A) Le 1					

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
2.8-Open Intake	33.4	26.7	26.7	26.7	
2011 Track Mobile switch moving rail cars 33 cars per day	21.3	24.3			
Air Compressor C 1	37.9	31.2	31.2	31.2	
Air Compressor Pump, Motor Fan CMXF -055	25.1	18.5	18.5	18.5	
Asphalt Production	41.3	34.6	34.6	34.6	
BFW Pumps P-073A&B	24.5	17.8	17.8	17.8	
Blower F 401	41.2	34.5	34.5	34.5	
Boiler Crude Unit-Heater Opening	29.6	22.9	22.9	22.9	
Brine Transfer P-085	22.9	16.2	16.2	16.2	
Burner H301 North	15.0	8.3	8.3	8.3	
Burner H301 South	22.7	16.0	16.0	16.0	
Burner H302 North	16.0	9.4	9.4	9.4	
Burner H302 South	26.6	19.9	19.9	19.9	
Burner H303 North	16.3	9.6	9.6	9.6	
Burner H303 South	23.6	16.9	16.9	16.9	
Burner H304 North	16.2	9.5	9.5	9.5	
Burner H304 South	19.8	13.1	13.1	13.1	
Burner H305 North	15.3	8.6	8.6	8.6	
Burner H305 South	23.9	17.2	17.2	17.2	
Burner H306 North	14.1	7.4	7.4	7.4	
Burner H306 South	21.1	14.4	14.4	14.4	
Compressor House C301, C302, C 124-Comp House East 1	26.0	19.3	19.3	19.3	
Compressor House C301, C302, C 124-Comp House East 2	28.9	22.2	22.2	22.2	
Compressor House C301, C302, C 124-Comp House North	24.2	17.5	17.5	17.5	
Compressor House C301, C302, C 124-Comp House South 1	37.4	30.8	30.8	30.8	
Compressor House C301, C302, C 124-Comp House South 2	30.1	23.5	23.5	23.5	
Compressor House C301, C302, C 124-Comp House West	11.4	4.7	4.7	4.7	
Cooling Tower CT 510-CT 510 East Side	21.8	15.1	15.1	15.1	
Cooling Tower CT 510-CT 510 West Side	12.6	6.0	6.0	6.0	
Cooling Tower CT 511-CT 511 East Side	32.9	26.3	26.3	26.3	
Cooling Tower CT 511-CT 511 West Side	17.4	10.7	10.7	10.7	
Cooling Tower M 512	24.2	17.6	17.6	17.6	
Cooling Tower M 513	24.3	17.6	17.6	17.6	
Cooling Tower M 514	24.2	17.6	17.6	17.6	
Crude Plant Operation 80 dB/m^2 at 1 m	41.5	34.9	34.9	34.9	
xxxx xxxx xxxx xxxx	50.2	43.6	43.6	43.6	
xxxx xxxx xxxx xxxx	25.9	19.2	19.2	19.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	41.8	35.2	35.2	35.2	

AltAir Paramount - WorldEnergy
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Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	55.5	48.9	48.9	48.9	
CT Y-600-CT Y-600 North	31.2	24.5	24.5	24.5	
CT Y-600-CT Y-600 South	23.3	16.6	16.6	16.6	
Deaerator Skid P-058A&B	26.1	19.4	19.4	19.4	
xxxx xxxx xxxx xxxx	14.8	13.2	11.5	5.6	
xxxx xxxx xxxx xxxx	14.8	13.3	11.6	5.7	
Exhaust Stack	37.3	30.6	30.6	30.6	
F.G. After Cooler XF-083ABC	28.2	21.6	21.6	21.6	
Fan Y-600	34.0	27.3	27.3	27.3	
FG Compressor Enclosure-FG Enclosure Roof	18.4	11.7	11.7	11.7	
FG Compressor Enclosure-FG Enclosure East	19.5	12.9	12.9	12.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	2.8	-3.9	-3.9	-3.9	
FG Compressor Enclosure-FG Enclosure North	25.4	18.7	18.7	18.7	
FG Compressor Enclosure-FG Enclosure South	5.3	-1.4	-1.4	-1.4	
FG Compressor Enclosure-FG Enclosure West	13.4	6.7	6.7	6.7	
FG Compressor Enclosure-FG Enclosure West Louver 3	-3.9	-10.6	-10.6	-10.6	
Fin Fan XF 616 - Above	23.2	16.5	16.5	16.5	
Fin Fan XF 616 - Below	35.9	29.2	29.2	29.2	
Fin Fan XF 617 - Above	20.6	13.9	13.9	13.9	
Fin Fan XF 617 - Below	32.7	26.0	26.0	26.0	
Heater # 5-Heater	20.5	13.8	13.8	13.8	
Heater # 5-Heater	20.9	14.3	14.3	14.3	
Heater # 5-Heater	19.0	12.3	12.3	12.3	
Heater H 601	18.5	11.9	11.9	11.9	
Hydro Heater H-402	20.5	13.8	13.8	13.8	
ID Fan	28.9	22.2	22.2	22.2	
ID Fan 200 HP Motor	23.6	16.9	16.9	16.9	
Incinirator Compressor & Motor	18.8	12.2	12.2	12.2	
Incinirator Fin Fan	22.4	15.7	15.7	15.7	
xxxx xxxx xxxx xxxx	64.2	62.7	61.0	55.0	
xxxx xxxx xxxx xxxx	63.7	62.2	60.5	54.6	
Lub Oil Cooler XF-061	33.3	26.6	26.6	26.6	
Misc pumps motors	24.2	17.5	17.5	17.5	
Motor & Pump P - 1502 Splitter Reflux Pu	21.3	14.6	14.6	14.6	
Motor & Pump P - 1503 Splitter Bottoms P	21.1	14.5	14.5	14.5	
Motor & Pump P - 1504 Splitter Bottoms P	17.0	10.4	10.4	10.4	
Motor & Pump P - 1507 Reactor Pump	21.4	14.7	14.7	14.7	
Motor & Pump P - 1508 Reactor Pump	21.3	14.6	14.6	14.6	
Motor & Pump P - 1511 Stabilizer Reflux	20.3	13.6	13.6	13.6	
Motor & Pump P - 1512 Stabilizer Reflux	20.3	13.6	13.6	13.6	
Motor & Pump P - 1513 Caustic Circulatin	20.3	13.7	13.7	13.7	
Motor & Pump P - 1514 Caustic Circulatin	20.3	13.7	13.7	13.7	
Motor & Pump P 120/121	23.1	16.5	16.5	16.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1505 FRESH FEED PUMPS	17.6	10.9	10.9	10.9	
Motor & Pump P 1506 FRESH FEED PUMPS	17.3	10.6	10.6	10.6	
Motor & Pump P 1509 Chloride Injection P	20.4	13.7	13.7	13.7	
Motor & Pump P 1510 Chloride Injection P	17.9	11.2	11.2	11.2	
Motor & Pump P 1601 A	20.8	14.2	14.2	14.2	
Motor & Pump P 1601 B	20.8	14.1	14.1	14.1	
Motor & Pump P 1602 A	20.8	14.1	14.1	14.1	
Motor & Pump P 1602 B	20.9	14.2	14.2	14.2	
Motor & Pump P 211/212	16.3	9.7	9.7	9.7	
Motor & Pump P 215/214	22.1	15.4	15.4	15.4	
Motor & Pump P 216	21.1	14.4	14.4	14.4	
Motor & Pump P 217/218	18.6	12.0	12.0	12.0	
Motor & Pump P 300	24.1	17.5	17.5	17.5	
Motor & Pump P 301	29.2	22.5	22.5	22.5	
Motor & Pump P 302	24.1	17.4	17.4	17.4	
Motor & Pump P 303	24.1	17.5	17.5	17.5	
Motor & Pump P 305	24.5	17.9	17.9	17.9	
Motor & Pump P 306	33.9	27.2	27.2	27.2	
Motor & Pump P 307	21.5	14.9	14.9	14.9	
Motor & Pump P 309	19.6	12.9	12.9	12.9	
Motor & Pump P 312	23.3	16.6	16.6	16.6	
Motor & Pump P 313	23.7	17.0	17.0	17.0	
Motor & Pump P 315	28.2	21.5	21.5	21.5	
Motor & Pump P 316	27.6	20.9	20.9	20.9	
Motor & Pump P 317	27.6	20.9	20.9	20.9	
Motor & Pump P 318	22.7	16.0	16.0	16.0	
Motor & Pump P 319	22.3	15.7	15.7	15.7	
Motor & Pump P 327	29.3	22.6	22.6	22.6	
Motor & Pump P 328	31.0	24.3	24.3	24.3	
Motor & Pump P 329	30.3	23.7	23.7	23.7	
Motor & Pump P 451	21.6	14.9	14.9	14.9	
Motor & Pump P 453	12.9	6.2	6.2	6.2	
Motor & Pump P 454	21.6	14.9	14.9	14.9	
Motor & Pump P 457	12.6	5.9	5.9	5.9	
Motor & Pump P 458	21.6	14.9	14.9	14.9	
Motor & Pump P 459	21.6	14.9	14.9	14.9	
Motor & Pump P 56A/B	17.0	10.4	10.4	10.4	
P602 100 HP	26.4	19.7	19.7	19.7	
P603 60 HP	25.3	18.7	18.7	18.7	
P605 40 HP	25.3	18.7	18.7	18.7	
P607 15 HP	22.2	15.6	15.6	15.6	
P608 15 HP	22.2	15.6	15.6	15.6	
P611 15 HP	22.3	15.6	15.6	15.6	
P614/615 20 HP	24.9	18.2	18.2	18.2	
Rail Cars Bumping 6 times in during delivery	22.0	25.0			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Scanner Blower C-084A/B	23.3	16.6	16.6	16.6	
Solar Turbine T70 2nd Boiler-2nd Boiler North	1.0	-5.7	-5.7	-5.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-0.9	-7.6	-7.6	-7.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	0.9	-5.8	-5.8	-5.8	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-0.2	-6.9	-6.9	-6.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-0.6	-7.3	-7.3	-7.3	
Solar Turbine T70 Boiler-Boiler East 1	10.3	3.6	3.6	3.6	
Solar Turbine T70 Boiler-Boiler East 2	10.0	3.3	3.3	3.3	
Solar Turbine T70 Boiler-Boiler North 1	22.1	15.5	15.5	15.5	
Solar Turbine T70 Boiler-Boiler North 2	10.7	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler Roof	18.6	11.9	11.9	11.9	
Solar Turbine T70 Boiler-Boiler South	17.1	10.4	10.4	10.4	
Solar Turbine T70 Boiler-Boiler South 2	9.3	2.7	2.7	2.7	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	26.9	20.2	20.2	20.2	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	31.2	24.5	24.5	24.5	
Solar Turbine T70 Enclosure-T70 Encl. Roof	30.5	23.8	23.8	23.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	28.9	22.3	22.3	22.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	16.7	10.1	10.1	10.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	15.9	9.2	9.2	9.2	
Solar Turbine T70 SCR-SCR Unit Roof	13.2	6.5	6.5	6.5	
Solar Turbine T70 SCR-SCR Unit NE	6.4	-0.3	-0.3	-0.3	
Solar Turbine T70 SCR-SCR Unit North	9.2	2.6	2.6	2.6	
Solar Turbine T70 SCR-SCR Unit NW	1.3	-5.4	-5.4	-5.4	
Solar Turbine T70 SCR-SCR Unit SE	6.8	0.1	0.1	0.1	
Solar Turbine T70 SCR-SCR Unit South	6.2	-0.5	-0.5	-0.5	
Solar Turbine T70 SCR-SCR Unit SW	0.2	-6.5	-6.5	-6.5	
xxxx xxxx xxxx xxxx	44.4	42.9	41.1	35.2	
xxxx xxxx xxxx xxxx	44.4	42.9	41.2	35.2	
Tank Farm Pump 1	28.1	21.4	21.4	21.4	
Tank Farm Pump 2	28.0	21.3	21.3	21.3	
Tank Farm Pump 3	29.0	22.3	22.3	22.3	
UP Train Locomotive Delivery and Pickup	16.8	19.8			
Vaporizer Blower 1	17.1	10.4	10.4	10.4	
Vaporizer Blower 2	18.6	12.0	12.0	12.0	
Vaporizer Inlet Silencer	8.2	1.6	1.6	1.6	
Vaporizer Motor 1	10.9	4.2	4.2	4.2	
Vaporizer Motor 2	12.4	5.8	5.8	5.8	
Water Treatment Pumps P-056A&B	23.1	16.5	16.5	16.5	
XF-1502 Splitter Area 1	29.6	23.0	23.0	23.0	
XF-1502 Splitter Area 2	32.1	25.5	25.5	25.5	
XF-1504 Splitter Area 1	29.6	22.9	22.9	22.9	
XF-1504 Splitter Area 2	32.1	25.5	25.5	25.5	
XF - 1601	29.2	22.5	22.5	22.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF - 1602	29.2	22.6	22.6	22.6	
XF 304, XF 321	36.5	29.8	29.8	29.8	
XF 313, XF 314	35.9	29.3	29.3	29.3	
XF 335-1, XF 335-2	37.9	31.2	31.2	31.2	
XF 503	41.1	34.4	34.4	34.4	
XF Module 1510	35.7	29.0	29.0	29.0	
XF Module 1519	36.4	29.7	29.7	29.7	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.5 dB(A)			Ld 7-19 dB(A)		Leq,N 66.3 dB(A)		Le 19-22 dB(A)		CNEL 73.0 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	156.7	-54.9	2.3	-0.3	0.0		0.0	0.0	40.5	0.0	6.7	47.2
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	90.6	-50.1	1.3	-0.1	-1.8		0.0	0.5	58.7	-10.8	0.0	47.9
Air Compressor C 1	CNEL	110.0	5	194.1	-56.8	3.2	-13.9	-0.3	-1.12	0.0	2.8	43.9	0.0	6.7	50.6
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		143.3	-54.1	2.4	-15.6	-1.2		0.0	7.9	39.6	0.0	6.7	46.3
Asphalt Production	CNEL	113.8	1206	199.8	-57.0	1.9	-3.0	-2.2		0.0	0.6	54.2	0.0	6.7	60.8
BFW Pumps P-073A&B	CNEL	95.8		134.1	-53.5	2.5	-12.3	-0.6		0.0	0.1	32.0	0.0	6.7	38.7
Blower F 401	CNEL	113.0		84.1	-49.5	0.5	-13.1	-0.1		0.0	0.2	51.0	0.0	6.7	57.7
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.4	-1.9	-1.8		0.0	0.0	37.0	0.0	6.7	43.7
Brine Transfer P-085	CNEL	96.2		121.6	-52.7	2.8	0.0	-1.2		0.0	0.1	45.2	0.0	6.7	51.9
Burner H301 North	CNEL	96.1	10	215.0	-57.6	3.1	-22.7	-1.3		0.0	7.8	28.3	0.0	6.7	35.0
Burner H301 South	CNEL	95.9	10	211.5	-57.5	3.0	-13.4	-0.9		0.0	0.6	30.9	0.0	6.7	37.5
Burner H302 North	CNEL	97.0	13	200.4	-57.0	2.9	-22.5	-1.2		0.0	7.6	29.8	0.0	6.7	36.5
Burner H302 South	CNEL	97.0	13	197.6	-56.9	2.9	-14.7	-0.8		0.0	2.4	32.7	0.0	6.7	39.4
Burner H303 North	CNEL	97.0	13	162.8	-55.2	2.3	-19.9	-0.8		0.0	7.8	34.2	0.0	6.7	40.8
Burner H303 South	CNEL	97.0	13	159.4	-55.0	2.3	-1.2	-1.4		0.0	0.0	44.6	0.0	6.7	51.3
Burner H304 North	CNEL	97.0	13	172.5	-55.7	2.5	-21.0	-0.9		0.0	5.1	30.0	0.0	6.7	36.6
Burner H304 South	CNEL	97.0	13	169.0	-55.5	2.4	-11.4	-0.9		0.0	1.8	36.3	0.0	6.7	43.0
Burner H305 North	CNEL	96.3	11	181.1	-56.2	2.6	-21.8	-1.0		0.0	6.9	29.8	0.0	6.7	36.5
Burner H305 South	CNEL	96.3	11	177.6	-56.0	2.6	-14.4	-0.8		0.0	1.4	32.2	0.0	6.7	38.8
Burner H306 North	CNEL	95.0	8	190.3	-56.6	2.8	-22.6	-1.1		0.0	8.9	29.5	0.0	6.7	36.1
Burner H306 South	CNEL	95.1	8	187.2	-56.4	2.7	-15.7	-0.8		0.0	2.0	29.8	0.0	6.7	36.5
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.1	-52.9	1.7	-11.1	-0.6	-0.56	3.5	1.9	46.8	0.0	6.7	53.5
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	128.9	-53.2	1.9	-1.0	-1.1	-0.59	0.0	0.0	46.5	0.0	6.7	53.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	132.9	-53.5	1.7	-17.0	-0.3	-0.22	-7.8	5.5	34.9	0.0	6.7	41.6
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.0	-52.8	1.6	-11.0	-0.7		0.0	0.0	47.8	0.0	6.7	54.4
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.4	-53.0	1.7	-9.5	-0.5	-0.59	-0.5	0.0	41.5	0.0	6.7	48.1
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.8	-53.3	1.6	-11.9	-0.4		-4.0	6.4	39.0	0.0	6.7	45.6
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.0	-54.0	2.3	-14.1	-0.4		-6.2	15.3	40.7	0.0	6.7	47.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	135.9	-53.7	2.0	0.0	-1.0		4.1	0.0	49.3	0.0	6.7	55.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.1	-13.8	-0.5		-7.2	2.5	29.1	0.0	6.7	35.8
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.0	-54.1	2.2	-4.9	-0.8		3.4	0.2	46.6	0.0	6.7	53.3
Cooling Tower M 512	CNEL	95.7		132.5	-53.4	2.4	-6.0	-0.6		0.0	5.9	44.0	0.0	6.7	50.7
Cooling Tower M 513	CNEL	95.7		131.8	-53.4	2.4	-5.0	-0.6		0.0	6.6	45.7	0.0	6.7	52.4
Cooling Tower M 514	CNEL	95.7		133.0	-53.5	2.4	-6.4	-0.5		0.0	6.2	43.9	0.0	6.7	50.6
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	291.9	-60.3	3.4	-4.4	-2.6		0.0	0.3	50.2	0.0	6.7	56.8
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	291.9	-60.3	2.7	-3.9	-2.6		0.0	0.3	50.0	0.0	6.7	56.7
CT Y-600-CT Y-600 North	CNEL	96.4	51	234.8	-58.4	1.5	-1.9	-1.6		0.0	0.0	39.0	0.0	6.7	45.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	237.5	-58.5	1.5	-8.0	-0.9		0.0	0.0	33.4	0.0	6.7	40.1
Deaerator Skid P-058A&B	CNEL	96.2		141.0	-54.0	1.8	0.0	-1.3		0.0	0.4	43.1	0.0	6.7	49.8
Exhaust Stack	CNEL	100.6		123.1	-52.8	1.5	0.0	-0.2		-0.1	0.0	49.1	0.0	6.7	55.7
F.G. After Cooler XF-083ABC	CNEL	100.2		158.2	-55.0	1.9	-7.9	-0.4		0.0	6.4	45.3	0.0	6.7	51.9
Fan Y-600	CNEL	107.5		236.1	-58.5	0.7	-9.1	-0.6		0.0	0.0	40.1	0.0	6.7	46.8
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	167.8	-55.5	1.0	-4.3	-0.1		0.0	0.1	23.6	0.0	6.7	30.2
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	173.9	-55.8	1.9	-7.4	0.0		0.0	0.0	19.3	0.0	6.7	26.0
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	173.1	-55.8	2.3	-14.6	-0.7		0.0	0.3	5.6	0.0	6.7	12.3
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	168.7	-55.5	1.8	-9.2	-0.1		0.0	0.8	21.5	0.0	6.7	28.2
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	166.5	-55.4	1.3	0.0	-0.1		0.0	0.0	20.8	0.0	6.7	27.4
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	161.6	-55.2	1.7	-4.5	-0.1		0.0	0.2	22.9	0.0	6.7	29.6
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	161.0	-55.1	2.3	-12.5	-0.9		0.0	7.7	15.7	0.0	6.7	22.4
Fin Fan XF 616 - Above	CNEL	96.0	75	264.6	-59.4	0.7	-0.1	-0.7		-12.3	0.0	24.2	0.0	6.7	30.8
Fin Fan XF 616 - Below	CNEL	108.0	75	264.5	-59.4	0.8	0.0	-1.0		-7.4	0.0	40.9	0.0	6.7	47.5
Fin Fan XF 617 - Above	CNEL	93.0	21	272.6	-59.7	0.7	-0.1	-0.7		-12.4	0.0	20.9	0.0	6.7	27.6
Fin Fan XF 617 - Below	CNEL	104.0	21	272.6	-59.7	0.8	0.0	-1.0		-7.4	0.0	36.6	0.0	6.7	43.3
Heater # 5-Heater	CNEL	91.1	13	293.0	-60.3	2.5	-13.8	-0.6		0.0	0.0	21.8	0.0	6.7	28.5
Heater # 5-Heater	CNEL	91.1	13	288.2	-60.2	2.5	-11.6	-0.6		0.0	0.0	24.1	0.0	6.7	30.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	283.2	-60.0	2.4	-7.3	-0.9		0.0	0.0	28.2	0.0	6.7	34.9
Heater H 601	CNEL	89.1	13	276.5	-59.8	2.2	-1.6	-1.9		0.0	0.4	28.4	0.0	6.7	35.1
Hydro Heater H-402	CNEL	98.1		123.5	-52.8	1.9	-10.6	-0.2	-0.75	0.0	0.0	35.6	0.0	6.7	42.2
ID Fan	CNEL	110.3		188.7	-56.5	1.7	-16.7	-0.3		0.0	3.4	41.7	0.0	6.7	48.4
ID Fan 200 HP Motor	CNEL	104.4		187.0	-56.4	2.8	-18.4	-1.3		0.0	1.7	32.6	0.0	6.7	39.3
Incinirator Compressor & Motor	CNEL	92.5		367.8	-62.3	3.0	-4.3	-1.4		0.0	0.0	27.4	0.0	6.7	34.1
Incinirator Fin Fan	CNEL	94.8		366.9	-62.3	3.2	-3.9	-1.2		0.0	0.0	30.5	0.0	6.7	37.2
Lub Oil Cooler XF-061	CNEL	100.5		147.3	-54.4	2.0	-14.6	-0.2		0.0	13.9	47.3	0.0	6.7	54.0
Misc pumps motors	CNEL	100.2	332	229.8	-58.2	3.3	-15.3	-1.0		0.0	5.7	34.8	0.0	6.7	41.4
Motor & Pump P 56A/B	CNEL	93.7		137.6	-53.8	2.4	-4.9	-1.0	-1.13	0.0	0.0	35.2	0.0	6.7	41.9
Motor & Pump P 120/121	CNEL	96.2	2	181.2	-56.2	3.2	-20.1	-0.6	-1.16	0.0	6.0	27.3	0.0	6.7	34.0
Motor & Pump P 211/212	CNEL	93.7		111.0	-51.9	2.3	-5.9	-0.7	-0.20	0.0	0.0	37.2	0.0	6.7	43.9
Motor & Pump P 215/214	CNEL	94.6		116.1	-52.3	2.3	-4.2	-0.9	-0.20	0.0	0.4	39.7	0.0	6.7	46.4
Motor & Pump P 216	CNEL	98.3		111.5	-51.9	2.3	0.0	-1.1	-0.46	0.0	0.0	47.0	0.0	6.7	53.7
Motor & Pump P 217/218	CNEL	93.7		112.9	-52.0	2.5	-5.0	-0.8	-0.22	0.0	0.0	38.1	0.0	6.7	44.8
Motor & Pump P 300	CNEL	97.1	2	183.4	-56.3	3.3	0.0	-1.0	-1.05	0.0	0.0	42.1	0.0	6.7	48.7
Motor & Pump P 301	CNEL	102.1	2	181.7	-56.2	3.2	0.0	-1.0	-1.05	0.0	0.0	47.1	0.0	6.7	53.8
Motor & Pump P 302	CNEL	97.1	2	185.2	-56.3	3.3	0.0	-1.0	-1.05	0.0	0.0	42.0	0.0	6.7	48.7
Motor & Pump P 303	CNEL	97.1	2	186.7	-56.4	3.2	0.0	-1.0	-1.05	0.0	0.0	41.9	0.0	6.7	48.5
Motor & Pump P 305	CNEL	97.5	2	188.2	-56.5	3.2	0.0	-1.0	-1.05	0.0	0.0	42.2	0.0	6.7	48.9
Motor & Pump P 306	CNEL	112.6	4	197.3	-56.9	3.0	-1.0	-1.7	-1.11	0.0	0.6	55.5	0.0	6.7	62.2
Motor & Pump P 307	CNEL	102.1	2	176.8	-55.9	3.2	0.0	-0.9	-1.04	0.0	0.0	47.3	0.0	6.7	54.0
Motor & Pump P 309	CNEL	97.5	2	189.7	-56.6	3.3	0.0	-1.0	-1.05	0.0	0.0	42.2	0.0	6.7	48.8
Motor & Pump P 312	CNEL	101.5	2	154.7	-54.8	3.1	0.0	-0.8	-1.04	0.0	0.0	47.9	0.0	6.7	54.6
Motor & Pump P 313	CNEL	101.5	2	152.9	-54.7	3.0	0.0	-0.8	-1.04	0.0	0.0	48.0	0.0	6.7	54.6
Motor & Pump P 315	CNEL	102.9	2	146.4	-54.3	2.7	0.0	-0.8	-1.03	0.0	0.0	49.5	0.0	6.7	56.2
Motor & Pump P 316	CNEL	102.9	2	144.4	-54.2	2.7	0.0	-0.8	-1.03	0.0	0.0	49.6	0.0	6.7	56.3
Motor & Pump P 317	CNEL	102.9	2	142.4	-54.1	2.6	0.0	-0.8	-1.03	0.0	0.0	49.6	0.0	6.7	56.3
Motor & Pump P 318	CNEL	100.2	1	148.4	-54.4	3.1	0.0	-0.8	-1.04	0.0	0.0	47.0	0.0	6.7	53.7
Motor & Pump P 319	CNEL	100.2	1	149.9	-54.5	3.1	0.0	-0.8	-1.04	0.0	0.0	46.9	0.0	6.7	53.6
Motor & Pump P 327	CNEL	111.2	3	205.3	-57.2	3.5	-14.0	-1.0	-1.06	0.0	0.1	41.5	0.0	6.7	48.2
Motor & Pump P 328	CNEL	109.9	5	191.5	-56.6	3.1	-1.0	-1.0	-1.05	0.0	0.1	53.4	0.0	6.7	60.1
Motor & Pump P 329	CNEL	110.2	5	194.4	-56.8	3.1	-1.0	-1.0	-1.02	0.0	0.2	53.7	0.0	6.7	60.4
Motor & Pump P 451	CNEL	93.7		117.1	-52.4	2.4	-8.0	-0.8	-0.44	0.0	0.0	34.5	0.0	6.7	41.1
Motor & Pump P 453	CNEL	93.7		106.7	-51.6	2.4	-4.8	-0.8	-0.04	0.0	0.5	39.3	0.0	6.7	46.0
Motor & Pump P 454	CNEL	93.7		117.2	-52.4	2.4	-14.2	-0.6	-0.58	0.0	0.9	29.1	0.0	6.7	35.8
Motor & Pump P 457	CNEL	93.7		105.2	-51.4	2.4	-3.7	-1.0	-0.01	0.0	0.7	40.6	0.0	6.7	47.2
Motor & Pump P 458	CNEL	93.7		117.4	-52.4	2.4	-15.1	-0.6	-0.36	0.0	0.0	27.6	0.0	6.7	34.3
Motor & Pump P 459	CNEL	93.7		118.1	-52.4	2.4	-14.3	-0.6	-0.60	0.0	0.9	29.0	0.0	6.7	35.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		148.8	-54.4	2.8	-17.7	-0.8	-0.10	0.0	0.8	26.7	0.0	6.7	33.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.4	-54.5	2.8	-7.8	-1.0		0.0	4.5	40.3	0.0	6.7	46.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.1	-56.3	3.3	-8.0	-1.1	-0.41	0.0	0.0	32.8	0.0	6.7	39.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.2	-56.4	3.4	-8.3	-1.1	-0.41	0.0	0.0	32.6	0.0	6.7	39.3
Motor & Pump P 1601 A	CNEL	96.3	2	160.0	-55.1	2.6	-8.6	-0.9		0.0	0.6	35.0	0.0	6.7	41.7
Motor & Pump P 1601 B	CNEL	96.3	2	160.7	-55.1	2.6	-6.3	-1.0		0.0	0.3	36.8	0.0	6.7	43.5
Motor & Pump P 1602 A	CNEL	96.3	2	161.0	-55.1	2.6	-4.4	-1.3		0.0	0.2	38.2	0.0	6.7	44.9
Motor & Pump P 1602 B	CNEL	96.5	2	161.7	-55.2	2.6	-8.2	-1.1		0.0	0.4	35.1	0.0	6.7	41.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.4	-54.6	3.0	0.0	-1.5	-0.07	0.0	0.0	43.4	0.0	6.7	50.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	156.9	-54.9	3.0	0.0	-1.5	-0.18	0.0	0.0	43.0	0.0	6.7	49.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.2	-55.0	3.0	0.0	-1.5	-0.23	0.0	0.0	42.9	0.0	6.7	49.5
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.0	-54.6	2.9	-10.0	-1.0	-0.01	0.0	0.1	34.1	0.0	6.7	40.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.7	-54.7	2.9	-8.5	-1.0	-0.03	0.0	0.0	35.4	0.0	6.7	42.1
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.4	-55.4	3.2	-5.9	-1.2	-0.36	0.0	0.9	37.5	0.0	6.7	44.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.6	-55.4	3.2	0.0	-1.6	-0.35	0.0	0.1	42.2	0.0	6.7	48.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.2	-55.3	3.1	0.0	-1.6	-0.34	0.0	0.1	42.3	0.0	6.7	48.9
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.7	-55.3	3.2	0.0	-1.6	-0.35	0.0	0.6	42.8	0.0	6.7	49.4
P602 100 HP	CNEL	94.1		260.8	-59.3	2.8	-14.1	-0.7		0.0	0.0	22.7	0.0	6.7	29.4
P603 60 HP	CNEL	95.0		255.3	-59.1	2.9	-17.2	-1.1		0.0	0.0	20.5	0.0	6.7	27.1
P605 40 HP	CNEL	95.0		256.7	-59.2	2.9	-17.1	-1.1		0.0	0.0	20.5	0.0	6.7	27.2
P607 15 HP	CNEL	90.5		266.3	-59.5	3.0	-14.9	-0.8		0.0	0.0	18.3	0.0	6.7	25.0
P608 15 HP	CNEL	90.5		269.0	-59.6	3.1	-14.5	-0.8		0.0	0.0	18.6	0.0	6.7	25.3
P611 15 HP	CNEL	90.5		263.5	-59.4	3.0	-15.1	-0.8		0.0	0.0	18.2	0.0	6.7	24.9
P614/615 20 HP	CNEL	93.0		257.7	-59.2	2.5	-11.6	-0.9		0.0	0.0	23.8	0.0	6.7	30.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.2	-50.0	0.7	-0.6	-0.3		0.0	0.5	85.0	-38.6	0.0	46.5
Scanner Blower C-084A/B	CNEL	95.5		142.4	-54.1	2.2	-3.7	-0.6		0.0	1.0	40.4	0.0	6.7	47.1
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	126.9	-53.1	2.0	-7.0	-0.1		0.0	0.6	14.0	0.0	6.7	20.6
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	124.6	-52.9	2.0	-1.6	-0.1		0.0	0.1	17.3	0.0	6.7	24.0
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	125.6	-53.0	1.5	-4.1	-0.1		0.0	1.2	15.0	0.0	6.7	21.6
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	125.3	-52.9	2.0	-1.7	-0.1		0.0	0.0	18.7	0.0	6.7	25.4
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	123.6	-52.8	1.9	-0.8	-0.2		0.0	0.0	20.0	0.0	6.7	26.6
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	144.5	-54.2	2.0	-9.2	-0.1		0.0	0.3	19.0	0.0	6.7	25.6
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	145.4	-54.2	2.0	-14.2	-0.1		0.0	0.2	12.8	0.0	6.7	19.5
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	141.6	-54.0	2.0	-12.8	-0.1		0.0	2.9	28.1	0.0	6.7	34.8
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	145.8	-54.3	2.1	-14.1	-0.1		0.0	3.4	18.7	0.0	6.7	25.4
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	141.2	-54.0	1.4	-4.6	-0.3		0.0	0.8	28.8	0.0	6.7	35.5
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	140.3	-53.9	2.0	-1.6	-0.2		0.0	0.1	36.4	0.0	6.7	43.1
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	145.2	-54.2	2.0	-8.4	-0.1		0.0	0.1	20.9	0.0	6.7	27.5
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	156.6	-54.9	2.4	-17.1	-0.6		0.0	1.2	30.3	0.0	6.7	36.9
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	151.9	-54.6	2.3	-17.2	-0.6		0.0	13.6	48.3	0.0	6.7	54.9
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	151.3	-54.6	1.8	-4.1	-1.1		0.0	1.3	44.7	0.0	6.7	51.4
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	150.6	-54.5	2.2	-1.7	-1.1		0.0	0.1	49.6	0.0	6.7	56.3
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	146.6	-54.3	2.3	-19.8	-0.5		0.0	15.6	36.7	0.0	6.7	43.3
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	145.5	-54.3	2.3	-4.4	-0.8		0.0	0.1	36.5	0.0	6.7	43.2
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	132.1	-53.4	1.4	-4.5	-0.2		0.0	0.8	22.1	0.0	6.7	28.8
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	137.4	-53.7	2.0	-11.0	-0.1		0.0	0.6	9.6	0.0	6.7	16.3
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	133.6	-53.5	1.9	-9.3	-0.1		0.0	0.4	18.4	0.0	6.7	25.1
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	129.3	-53.2	1.9	-5.3	-0.2		0.0	0.2	16.8	0.0	6.7	23.5
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	135.4	-53.6	1.9	-4.8	-0.2		0.0	0.1	17.2	0.0	6.7	23.9
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	130.8	-53.3	1.9	-1.7	-0.2		0.0	0.0	25.7	0.0	6.7	32.4
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	127.0	-53.1	1.8	-2.7	-0.2		0.0	1.0	20.2	0.0	6.7	26.9
Tank Farm Pump 1	CNEL	99.0	3	341.5	-61.7	4.2	-4.2	-2.3		0.0	0.0	35.0	0.0	6.7	41.7
Tank Farm Pump 2	CNEL	99.0	3	361.8	-62.2	4.2	-4.1	-2.4		0.0	0.0	34.5	0.0	6.7	41.1
Tank Farm Pump 3	CNEL	99.0	3	367.4	-62.3	4.2	-4.6	-2.3		0.0	0.0	34.0	0.0	6.7	40.7
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	120.8	-52.6	1.2	-0.1	-1.8		0.0	0.6	59.6	-16.8	0.0	42.8
Vaporizer Blower 1	CNEL	88.7		142.6	-54.1	2.7	-19.0	-0.4		0.0	16.6	34.5	0.0	6.7	41.2
Vaporizer Blower 2	CNEL	88.7		142.7	-54.1	2.7	-17.9	-0.4		0.0	15.6	34.5	0.0	6.7	41.2
Vaporizer Inlet Silencer	CNEL	73.7		144.0	-54.2	1.8	-10.3	-0.2		0.0	6.1	17.0	0.0	6.7	23.7
Vaporizer Motor 1	CNEL	83.6		142.1	-54.0	2.8	-20.0	-0.6		0.0	17.7	29.4	0.0	6.7	36.1
Vaporizer Motor 2	CNEL	83.6		142.2	-54.0	2.8	-19.1	-0.6		0.0	16.8	29.5	0.0	6.7	36.2
Water Treatment Pumps P-056A&B	CNEL	93.0		125.0	-52.9	2.7	-4.7	-1.1		0.0	0.2	37.2	0.0	6.7	43.9
XF-1502 Splitter Area 1	CNEL	104.5		161.6	-55.2	2.1	0.0	-1.2	-0.27	-4.3	0.0	45.6	0.0	6.7	52.3
XF-1502 Splitter Area 2	CNEL	104.5		158.0	-55.0	2.0	0.0	-1.2	-0.10	-4.3	0.0	46.0	0.0	6.7	52.7
XF-1504 Splitter Area 1	CNEL	104.5		163.1	-55.2	2.1	0.0	-1.2	-0.27	-4.4	0.0	45.5	0.0	6.7	52.1
XF-1504 Splitter Area 2	CNEL	104.5		159.6	-55.1	2.1	-4.6	-1.0		-4.0	0.0	41.9	0.0	6.7	48.6
XF 304, XF 321	CNEL	110.5	56	180.9	-56.1	1.6	-0.5	-0.9	-1.30	-3.4	0.1	50.0	0.0	6.7	56.7
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	1.9	-3.9	-1.1	-1.71	-4.1	0.0	46.7	0.0	6.7	53.3
XF 335-1, XF 335-2	CNEL	113.4	54	193.1	-56.7	1.7	-4.5	-0.8	-1.44	-3.0	0.3	49.0	0.0	6.7	55.6
XF 503	CNEL	113.0	21	129.9	-53.3	1.8	0.0	-2.1	-0.99	-4.0	0.4	54.9	0.0	6.7	61.6
XF - 1601	CNEL	96.6		160.2	-55.1	1.8	0.0	-0.6		-2.8	0.0	39.9	0.0	6.7	46.5
XF - 1602	CNEL	96.6		163.1	-55.2	1.8	-0.4	-0.6		-3.3	0.0	38.8	0.0	6.7	45.5
XF Module 1510	CNEL	108.3		152.5	-54.7	2.0	0.0	-1.1	-0.10	-4.3	0.0	50.1	0.0	6.7	56.8
XF Module 1519	CNEL	109.0		157.6	-54.9	2.0	0.0	-1.2	-0.13	-4.4	0.0	50.5	0.0	6.7	57.1
xxxx xxxx xxxx xxxx	CNEL		606								3.2				24.6
xxxx xxxx xxxx xxxx	CNEL		606								3.3				24.6
xxxx xxxx xxxx xxxx	CNEL		917								1.8				33.4
xxxx xxxx xxxx xxxx	CNEL		917								0.9				32.6
xxxx xxxx xxxx xxxx	CNEL		608								2.7				36.0
xxxx xxxx xxxx xxxx	CNEL		608								2.7				35.5
xxxx xxxx xxxx xxxx	CNEL		1172								2.3				42.4
xxxx xxxx xxxx xxxx	CNEL		520								3.4				26.6
xxxx xxxx xxxx xxxx	CNEL		572								3.1				40.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-1 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 66.4 dB(A) Le 19-22 dB(A) CNEL 73.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	156.7	-54.9	2.5	-0.4	0.0		0.0	0.0	40.7	0.0	6.7	47.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	90.7	-50.1	1.4	-0.1	-1.8		0.0	0.3	58.6	-10.8	0.0	47.8
Air Compressor C 1	CNEL	110.0	5	194.2	-56.8	2.6	-13.3	-0.3	-1.13	0.0	3.1	44.1	0.0	6.7	50.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		143.3	-54.1	2.5	-15.3	-1.2		0.0	7.7	39.9	0.0	6.7	46.6
Asphalt Production	CNEL	113.8	1206	199.8	-57.0	2.5	-2.8	-2.2		0.0	0.5	54.8	0.0	6.7	61.5
BFW Pumps P-073A&B	CNEL	95.8		134.2	-53.5	2.5	-12.0	-0.6		0.0	0.1	32.3	0.0	6.7	38.9
Blower F 401	CNEL	113.0		84.2	-49.5	0.9	-13.1	-0.1		0.0	0.2	51.4	0.0	6.7	58.1
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.6	-0.5	-1.4		0.0	0.0	39.0	0.0	6.7	45.6
Brine Transfer P-085	CNEL	96.2		121.7	-52.7	2.5	0.0	-1.2		0.0	0.1	45.0	0.0	6.7	51.6
Burner H301 North	CNEL	96.1	10	215.0	-57.6	2.6	-22.6	-1.3		0.0	8.9	29.1	0.0	6.7	35.8
Burner H301 South	CNEL	95.9	10	211.5	-57.5	2.6	-11.2	-1.2		0.0	0.6	32.2	0.0	6.7	38.9
Burner H302 North	CNEL	97.0	13	200.5	-57.0	2.6	-22.5	-1.1		0.0	9.3	31.3	0.0	6.7	37.9
Burner H302 South	CNEL	97.0	13	197.6	-56.9	2.6	-12.5	-1.1		0.0	2.0	34.1	0.0	6.7	40.8
Burner H303 North	CNEL	97.0	13	162.9	-55.2	2.5	-18.2	-0.8		0.0	7.0	35.4	0.0	6.7	42.1
Burner H303 South	CNEL	97.0	13	159.4	-55.0	2.5	-1.0	-1.5		0.0	0.1	45.0	0.0	6.7	51.7
Burner H304 North	CNEL	97.0	13	172.5	-55.7	2.6	-20.8	-0.9		0.0	6.3	31.4	0.0	6.7	38.1
Burner H304 South	CNEL	97.0	13	169.0	-55.6	2.6	-9.8	-1.2		0.0	1.6	37.6	0.0	6.7	44.3
Burner H305 North	CNEL	96.3	11	181.1	-56.2	2.6	-21.8	-1.0		0.0	8.5	31.4	0.0	6.7	38.1
Burner H305 South	CNEL	96.3	11	177.7	-56.0	2.6	-13.5	-0.8		0.0	1.6	33.2	0.0	6.7	39.8
Burner H306 North	CNEL	95.0	8	190.3	-56.6	2.6	-22.4	-1.1		0.0	11.3	31.8	0.0	6.7	38.4
Burner H306 South	CNEL	95.1	8	187.3	-56.4	2.6	-14.1	-0.9		0.0	2.2	31.4	0.0	6.7	38.1
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.1	-52.9	2.1	-10.7	-0.6	-0.56	3.5	2.1	47.7	0.0	6.7	54.4
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	128.9	-53.2	2.3	-1.0	-1.1	-0.60	0.0	0.0	47.0	0.0	6.7	53.7
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	133.0	-53.5	2.2	-15.0	-0.4	-0.18	-7.8	6.4	38.2	0.0	6.7	44.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.0	-52.8	2.1	-11.0	-0.6		0.0	0.0	48.3	0.0	6.7	55.0
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.4	-53.0	2.1	-9.0	-0.5	-0.59	-0.5	0.0	42.3	0.0	6.7	49.0
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.8	-53.3	2.1	-11.0	-0.4		-4.0	5.7	39.5	0.0	6.7	46.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.1	-54.0	2.5	-11.6	-0.5		-6.2	11.2	39.3	0.0	6.7	45.9
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	136.0	-53.7	2.4	0.0	-1.0		4.1	0.0	49.7	0.0	6.7	56.3
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.4	-13.6	-0.4		-7.2	0.1	27.3	0.0	6.7	33.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.1	-54.1	2.4	-4.5	-0.8		3.4	0.1	47.2	0.0	6.7	53.8
Cooling Tower M 512	CNEL	95.7		132.6	-53.4	2.6	-3.7	-0.6		0.0	3.0	43.5	0.0	6.7	50.2
Cooling Tower M 513	CNEL	95.7		131.8	-53.4	2.6	-3.1	-0.6		0.0	4.1	45.3	0.0	6.7	51.9
Cooling Tower M 514	CNEL	95.7		133.1	-53.5	2.6	-3.9	-0.6		0.0	3.1	43.4	0.0	6.7	50.1
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	291.9	-60.3	3.2	-4.0	-2.5		0.0	0.3	50.4	0.0	6.7	57.0
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	291.9	-60.3	2.6	-3.6	-2.5		0.0	0.4	50.3	0.0	6.7	57.0
CT Y-600-CT Y-600 North	CNEL	96.4	51	234.8	-58.4	2.0	-1.6	-1.5		0.0	0.0	39.9	0.0	6.7	46.6
CT Y-600-CT Y-600 South	CNEL	96.4	52	237.5	-58.5	1.8	-7.8	-0.9		0.0	0.0	34.0	0.0	6.7	40.7
Deaerator Skid P-058A&B	CNEL	96.2		140.9	-54.0	2.1	0.0	-1.3		0.0	0.4	43.5	0.0	6.7	50.2
Exhaust Stack	CNEL	100.6		122.9	-52.8	2.0	0.0	-0.2		-0.1	0.0	49.6	0.0	6.7	56.3
F.G. After Cooler XF-083ABC	CNEL	100.2		158.2	-55.0	2.5	-7.3	-0.3		0.0	5.9	46.0	0.0	6.7	52.7
Fan Y-600	CNEL	107.5		236.0	-58.5	1.4	-9.0	-0.6		0.0	0.0	40.9	0.0	6.7	47.6
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	167.8	-55.5	1.8	-4.8	-0.1		0.0	0.1	23.9	0.0	6.7	30.6
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	173.9	-55.8	2.3	-7.4	-0.1		0.0	0.0	19.8	0.0	6.7	26.4
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	173.1	-55.8	2.6	-14.0	-0.9		0.0	0.4	6.5	0.0	6.7	13.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	168.7	-55.5	2.3	-8.7	-0.1		0.0	0.5	22.2	0.0	6.7	28.8
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	166.5	-55.4	2.0	0.0	-0.1		0.0	0.0	21.5	0.0	6.7	28.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	161.7	-55.2	2.2	-4.5	-0.1		0.0	0.1	23.4	0.0	6.7	30.0
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	161.1	-55.1	2.6	-12.3	-0.9		0.0	7.9	16.2	0.0	6.7	22.9
Fin Fan XF 616 - Above	CNEL	96.0	75	264.5	-59.4	1.5	0.0	-0.6		-11.7	0.0	25.7	0.0	6.7	32.4
Fin Fan XF 616 - Below	CNEL	108.0	75	264.4	-59.4	1.6	0.0	-0.9		-7.8	0.0	41.4	0.0	6.7	48.1
Fin Fan XF 617 - Above	CNEL	93.0	21	272.5	-59.7	1.6	0.0	-0.7		-11.8	0.0	22.4	0.0	6.7	29.1
Fin Fan XF 617 - Below	CNEL	104.0	21	272.5	-59.7	1.6	0.0	-1.0		-7.7	0.0	37.2	0.0	6.7	43.9
Heater # 5-Heater	CNEL	91.1	13	293.1	-60.3	2.7	-13.3	-0.6		0.0	0.0	22.6	0.0	6.7	29.3
Heater # 5-Heater	CNEL	91.1	13	288.2	-60.2	2.6	-11.0	-0.6		0.0	0.0	25.0	0.0	6.7	31.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	283.2	-60.0	2.6	-7.0	-0.9		0.0	0.0	28.8	0.0	6.7	35.5
Heater H 601	CNEL	89.1	13	276.5	-59.8	2.3	-0.6	-1.5		0.0	0.5	29.9	0.0	6.7	36.6
Hydro Heater H-402	CNEL	98.1		123.6	-52.8	2.5	-10.1	-0.2	-0.76	0.0	0.0	36.7	0.0	6.7	43.3
ID Fan	CNEL	110.3		188.7	-56.5	2.5	-16.1	-0.3		0.0	3.5	43.3	0.0	6.7	49.9
ID Fan 200 HP Motor	CNEL	104.4		187.0	-56.4	2.5	-17.9	-1.2		0.0	1.6	33.0	0.0	6.7	39.7
Incinirator Compressor & Motor	CNEL	92.5		367.8	-62.3	3.2	-4.0	-1.4		0.0	0.0	27.9	0.0	6.7	34.6
Incinirator Fin Fan	CNEL	94.8		366.9	-62.3	3.2	-3.8	-1.3		0.0	0.0	30.7	0.0	6.7	37.4
Lub Oil Cooler XF-061	CNEL	100.5		147.4	-54.4	2.5	-12.9	-0.2		0.0	10.8	46.3	0.0	6.7	53.0
Misc pumps motors	CNEL	100.2	332	229.8	-58.2	2.7	-13.4	-1.3		0.0	5.5	35.5	0.0	6.7	42.2
Motor & Pump P 56A/B	CNEL	93.7		137.7	-53.8	2.6	-3.7	-1.2	-1.11	0.0	0.0	36.5	0.0	6.7	43.2
Motor & Pump P 120/121	CNEL	96.2	2	181.3	-56.2	2.7	-19.8	-0.6	-1.17	0.0	6.3	27.5	0.0	6.7	34.2
Motor & Pump P 211/212	CNEL	93.7		111.1	-51.9	2.5	-5.8	-0.7	-0.20	0.0	0.0	37.5	0.0	6.7	44.1
Motor & Pump P 215/214	CNEL	94.6		116.2	-52.3	2.5	-4.1	-0.9	-0.20	0.0	0.3	39.9	0.0	6.7	46.6
Motor & Pump P 216	CNEL	98.3		111.6	-51.9	2.4	0.0	-1.1	-0.46	0.0	0.0	47.2	0.0	6.7	53.9
Motor & Pump P 217/218	CNEL	93.7		113.0	-52.1	2.5	-4.9	-0.8	-0.22	0.0	0.0	38.1	0.0	6.7	44.8
Motor & Pump P 300	CNEL	97.1	2	183.4	-56.3	2.6	0.0	-1.0	-1.05	0.0	0.0	41.5	0.0	6.7	48.2
Motor & Pump P 301	CNEL	102.1	2	181.7	-56.2	2.6	0.0	-0.9	-1.05	0.0	0.0	46.6	0.0	6.7	53.2
Motor & Pump P 302	CNEL	97.1	2	185.2	-56.3	2.6	0.0	-1.0	-1.05	0.0	0.0	41.4	0.0	6.7	48.1
Motor & Pump P 303	CNEL	97.1	2	186.7	-56.4	2.6	0.0	-1.0	-1.05	0.0	0.0	41.3	0.0	6.7	48.0
Motor & Pump P 305	CNEL	97.5	2	188.2	-56.5	2.6	0.0	-1.0	-1.05	0.0	0.0	41.6	0.0	6.7	48.3
Motor & Pump P 306	CNEL	112.6	4	197.4	-56.9	2.6	-1.0	-1.6	-1.12	0.0	0.5	55.2	0.0	6.7	61.9
Motor & Pump P 307	CNEL	102.1	2	176.9	-55.9	2.6	0.0	-0.9	-1.05	0.0	0.0	46.8	0.0	6.7	53.5
Motor & Pump P 309	CNEL	97.5	2	189.7	-56.6	2.6	0.0	-1.0	-1.05	0.0	0.0	41.6	0.0	6.7	48.2
Motor & Pump P 312	CNEL	101.5	2	154.8	-54.8	2.6	0.0	-0.8	-1.04	0.0	0.0	47.4	0.0	6.7	54.1
Motor & Pump P 313	CNEL	101.5	2	153.0	-54.7	2.6	0.0	-0.8	-1.04	0.0	0.0	47.6	0.0	6.7	54.2
Motor & Pump P 315	CNEL	102.9	2	146.5	-54.3	2.6	0.0	-0.8	-1.04	0.0	0.0	49.3	0.0	6.7	56.0
Motor & Pump P 316	CNEL	102.9	2	144.5	-54.2	2.6	0.0	-0.8	-1.04	0.0	0.0	49.5	0.0	6.7	56.1
Motor & Pump P 317	CNEL	102.9	2	142.5	-54.1	2.6	0.0	-0.8	-1.04	0.0	0.0	49.6	0.0	6.7	56.3
Motor & Pump P 318	CNEL	100.2	1	148.5	-54.4	2.6	0.0	-0.8	-1.04	0.0	0.0	46.5	0.0	6.7	53.2
Motor & Pump P 319	CNEL	100.2	1	150.0	-54.5	2.6	0.0	-0.8	-1.04	0.0	0.0	46.4	0.0	6.7	53.1
Motor & Pump P 327	CNEL	111.2	3	205.4	-57.2	2.7	-13.9	-1.0	-0.98	0.0	0.1	40.9	0.0	6.7	47.5
Motor & Pump P 328	CNEL	109.9	5	191.5	-56.6	2.6	-1.0	-1.0	-1.05	0.0	0.1	53.0	0.0	6.7	59.7
Motor & Pump P 329	CNEL	110.2	5	194.4	-56.8	2.7	-1.0	-0.9	-1.03	0.0	0.2	53.3	0.0	6.7	59.9
Motor & Pump P 451	CNEL	93.7		117.2	-52.4	2.5	-6.0	-0.9	-0.43	0.0	0.0	36.6	0.0	6.7	43.2
Motor & Pump P 453	CNEL	93.7		106.8	-51.6	2.5	-4.4	-0.8	-0.04	0.0	0.0	39.3	0.0	6.7	46.0
Motor & Pump P 454	CNEL	93.7		117.3	-52.4	2.5	-14.1	-0.6	-0.58	0.0	0.9	29.4	0.0	6.7	36.1
Motor & Pump P 457	CNEL	93.7		105.3	-51.4	2.5	-3.5	-1.0	-0.01	0.0	0.4	40.7	0.0	6.7	47.4
Motor & Pump P 458	CNEL	93.7		117.5	-52.4	2.5	-14.5	-0.6	-0.36	0.0	0.0	28.4	0.0	6.7	35.1
Motor & Pump P 459	CNEL	93.7		118.2	-52.4	2.5	-14.1	-0.6	-0.60	0.0	0.9	29.3	0.0	6.7	36.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		148.9	-54.4	2.6	-17.6	-0.8	-0.10	0.0	0.0	25.9	0.0	6.7	32.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.5	-54.5	2.6	-7.7	-1.0		0.0	4.3	40.0	0.0	6.7	46.7
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.1	-56.3	2.7	-7.1	-1.1	-0.41	0.0	0.0	33.1	0.0	6.7	39.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.2	-56.4	2.7	-7.5	-1.1	-0.42	0.0	0.0	32.6	0.0	6.7	39.3
Motor & Pump P 1601 A	CNEL	96.3	2	160.0	-55.1	2.7	-6.6	-1.0		0.0	0.6	36.9	0.0	6.7	43.6
Motor & Pump P 1601 B	CNEL	96.3	2	160.7	-55.1	2.7	-4.9	-1.1		0.0	0.4	38.3	0.0	6.7	44.9
Motor & Pump P 1602 A	CNEL	96.3	2	161.1	-55.1	2.7	-3.4	-1.4		0.0	0.3	39.3	0.0	6.7	46.0
Motor & Pump P 1602 B	CNEL	96.5	2	161.8	-55.2	2.7	-8.1	-1.1		0.0	0.8	35.7	0.0	6.7	42.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.4	-54.7	2.7	0.0	-1.5	-0.07	0.0	0.0	43.1	0.0	6.7	49.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	157.0	-54.9	2.7	0.0	-1.5	-0.18	0.0	0.0	42.7	0.0	6.7	49.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.3	-55.0	2.7	0.0	-1.5	-0.24	0.0	0.0	42.5	0.0	6.7	49.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.1	-54.6	2.6	-8.3	-1.0	-0.02	0.0	0.0	35.4	0.0	6.7	42.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.8	-54.7	2.7	-6.6	-1.1	-0.03	0.0	0.0	36.8	0.0	6.7	43.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.5	-55.4	2.7	-5.4	-1.2	-0.37	0.0	1.4	38.0	0.0	6.7	44.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.6	-55.4	2.7	0.0	-1.6	-0.35	0.0	0.2	41.9	0.0	6.7	48.5
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.2	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.1	41.9	0.0	6.7	48.5
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.8	-55.3	2.7	0.0	-1.6	-0.35	0.0	0.7	42.4	0.0	6.7	49.1
P602 100 HP	CNEL	94.1		260.8	-59.3	2.6	-13.8	-0.7		0.0	0.0	22.9	0.0	6.7	29.6
P603 60 HP	CNEL	95.0		255.4	-59.1	2.6	-17.1	-1.1		0.0	0.0	20.4	0.0	6.7	27.0
P605 40 HP	CNEL	95.0		256.8	-59.2	2.6	-17.0	-1.1		0.0	0.0	20.4	0.0	6.7	27.1
P607 15 HP	CNEL	90.5		266.3	-59.5	2.8	-14.6	-0.8		0.0	0.0	18.4	0.0	6.7	25.0
P608 15 HP	CNEL	90.5		269.1	-59.6	2.8	-14.3	-0.8		0.0	0.0	18.6	0.0	6.7	25.3
P611 15 HP	CNEL	90.5		263.6	-59.4	2.8	-14.8	-0.8		0.0	0.0	18.2	0.0	6.7	24.9
P614/615 20 HP	CNEL	93.0		257.8	-59.2	2.2	-11.4	-0.8		0.0	0.0	23.8	0.0	6.7	30.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.4	-50.0	0.9	-0.3	-0.3		0.0	0.3	85.4	-38.6	0.0	46.8
Scanner Blower C-084A/B	CNEL	95.5		142.5	-54.1	2.6	-3.2	-0.6		0.0	1.3	41.6	0.0	6.7	48.2
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	127.0	-53.1	2.4	-7.0	-0.1		0.0	0.7	14.4	0.0	6.7	21.1
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	124.7	-52.9	2.4	-1.5	-0.1		0.0	0.1	17.8	0.0	6.7	24.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	125.7	-53.0	1.9	-4.1	-0.1		0.0	1.3	15.5	0.0	6.7	22.2
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	125.3	-53.0	2.3	-2.0	-0.1		0.0	0.0	18.7	0.0	6.7	25.4
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	123.7	-52.8	2.4	-0.8	-0.2		0.0	0.0	20.4	0.0	6.7	27.1
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	144.5	-54.2	2.3	-9.1	-0.1		0.0	0.4	19.4	0.0	6.7	26.1
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	145.5	-54.2	2.4	-14.1	-0.1		0.0	0.2	13.3	0.0	6.7	20.0
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	141.7	-54.0	2.3	-12.0	-0.1		0.0	2.9	29.1	0.0	6.7	35.8
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	145.9	-54.3	2.4	-13.9	-0.1		0.0	3.1	18.9	0.0	6.7	25.5
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	141.2	-54.0	1.9	-2.9	-0.3		0.0	0.5	30.7	0.0	6.7	37.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	140.3	-53.9	2.3	-1.4	-0.2		0.0	0.1	37.0	0.0	6.7	43.6
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	145.3	-54.2	2.3	-8.3	-0.2		0.0	0.3	21.4	0.0	6.7	28.1
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	156.7	-54.9	2.6	-16.4	-0.5		0.0	0.6	30.6	0.0	6.7	37.3
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	152.0	-54.6	2.6	-16.5	-0.5		0.0	10.6	46.2	0.0	6.7	52.9
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	151.3	-54.6	2.4	-3.8	-1.1		0.0	0.8	45.1	0.0	6.7	51.8
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	150.6	-54.5	2.6	-1.5	-1.1		0.0	0.1	50.3	0.0	6.7	57.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	146.7	-54.3	2.5	-19.3	-0.5		0.0	14.1	36.0	0.0	6.7	42.7
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	145.6	-54.3	2.5	-3.8	-0.8		0.0	0.1	37.4	0.0	6.7	44.1
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	132.1	-53.4	1.9	-4.8	-0.2		0.0	0.5	22.1	0.0	6.7	28.8
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	137.4	-53.8	2.3	-10.5	-0.1		0.0	1.0	10.8	0.0	6.7	17.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	133.7	-53.5	2.3	-9.0	-0.1		0.0	0.6	19.2	0.0	6.7	25.9
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	129.3	-53.2	2.3	-5.1	-0.2		0.0	0.3	17.5	0.0	6.7	24.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	135.5	-53.6	2.3	-4.8	-0.2		0.0	0.1	17.6	0.0	6.7	24.3
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	130.9	-53.3	2.3	-1.5	-0.2		0.0	0.0	26.3	0.0	6.7	32.9
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	127.1	-53.1	2.2	-2.5	-0.2		0.0	1.0	20.8	0.0	6.7	27.4
Tank Farm Pump 1	CNEL	99.0	3	341.5	-61.7	3.8	-2.9	-2.2		0.0	0.0	36.0	0.0	6.7	42.7
Tank Farm Pump 2	CNEL	99.0	3	361.8	-62.2	3.9	-3.7	-2.3		0.0	0.0	34.7	0.0	6.7	41.4
Tank Farm Pump 3	CNEL	99.0	3	367.5	-62.3	3.9	-3.3	-2.3		0.0	0.0	35.0	0.0	6.7	41.7
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.0	-52.6	1.3	-0.1	-1.8		0.0	0.3	59.5	-16.8	0.0	42.6
Vaporizer Blower 1	CNEL	88.7		142.7	-54.1	2.6	-16.5	-0.5		0.0	14.1	34.2	0.0	6.7	40.9
Vaporizer Blower 2	CNEL	88.7		142.7	-54.1	2.6	-15.4	-0.5		0.0	13.0	34.3	0.0	6.7	41.0
Vaporizer Inlet Silencer	CNEL	73.7		144.1	-54.2	2.5	-8.8	-0.2		0.0	4.9	17.9	0.0	6.7	24.6
Vaporizer Motor 1	CNEL	83.6		142.2	-54.1	2.6	-17.3	-0.7		0.0	15.0	29.2	0.0	6.7	35.8
Vaporizer Motor 2	CNEL	83.6		142.3	-54.1	2.6	-16.4	-0.6		0.0	14.1	29.2	0.0	6.7	35.9
Water Treatment Pumps P-056A&B	CNEL	93.0		125.2	-52.9	2.5	-4.6	-1.0		0.0	0.0	36.9	0.0	6.7	43.6
XF-1502 Splitter Area 1	CNEL	104.5		161.5	-55.2	2.4	0.0	-1.2	-0.01	-4.3	0.0	46.3	0.0	6.7	52.9
XF-1502 Splitter Area 2	CNEL	104.5		158.0	-55.0	2.3	0.0	-1.2		-4.3	0.0	46.5	0.0	6.7	53.1
XF-1504 Splitter Area 1	CNEL	104.5		163.0	-55.2	2.4	0.0	-1.2	-0.07	-4.3	0.0	46.1	0.0	6.7	52.8
XF-1504 Splitter Area 2	CNEL	104.5		159.5	-55.0	2.3	-4.6	-1.0		-3.9	0.0	42.4	0.0	6.7	49.0
XF 304, XF 321	CNEL	110.5	56	180.8	-56.1	2.2	-0.2	-0.8	-1.27	-3.3	0.2	51.2	0.0	6.7	57.9
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	2.3	-4.4	-0.9	-1.71	-3.9	0.0	46.9	0.0	6.7	53.6
XF 335-1, XF 335-2	CNEL	113.4	54	193.1	-56.7	2.3	-4.2	-0.8	-1.45	-3.0	0.5	50.0	0.0	6.7	56.7
XF 503	CNEL	113.0	21	129.8	-53.3	2.1	0.0	-2.0	-1.00	-4.0	0.0	54.9	0.0	6.7	61.6
XF - 1601	CNEL	96.6		160.0	-55.1	2.3	0.0	-0.6		-2.6	0.0	40.7	0.0	6.7	47.3
XF - 1602	CNEL	96.6		162.9	-55.2	2.3	-0.1	-0.6		-2.7	0.0	40.3	0.0	6.7	46.9
XF Module 1510	CNEL	108.3		152.4	-54.7	2.3	0.0	-1.1	-0.10	-4.3	0.0	50.5	0.0	6.7	57.1
XF Module 1519	CNEL	109.0		157.5	-54.9	2.3	0.0	-1.2	-0.13	-4.3	0.0	50.8	0.0	6.7	57.5
xxxx xxxx xxxx xxxx	CNEL		606								2.8				24.7
xxxx xxxx xxxx xxxx	CNEL		606								2.7				24.6
xxxx xxxx xxxx xxxx	CNEL		917								1.8				35.0
xxxx xxxx xxxx xxxx	CNEL		917								0.6				33.9
xxxx xxxx xxxx xxxx	CNEL		608								1.9				38.1
xxxx xxxx xxxx xxxx	CNEL		608								1.9				37.8
xxxx xxxx xxxx xxxx	CNEL		1172								2.6				43.0
xxxx xxxx xxxx xxxx	CNEL		520								3.0				26.1
xxxx xxxx xxxx xxxx	CNEL		572								2.9				40.1

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	Ls dB(A)	dLw dB	ZR dB	Lr dB(A)
Receiver SS-1 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.9 dB(A)			Ld 7-19 dB(A)			Leq,N 66.7 dB(A)		Le 19-22 dB(A)		CNEL 73.4 dB(A)		Lmax day hr dB(A)	Ld 7-1
2.8-Open Intake	CNEL	90.5	8	156.7	-54.9	2.6	-0.4	0.0		0.0	0.0	40.8	0.0	6.7	47.5
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	91.0	-50.2	1.4	-0.1	-1.8		0.0	0.3	58.6	-10.8	0.0	47.8
Air Compressor C 1	CNEL	110.0	5	194.3	-56.8	2.7	-12.0	-0.4	-1.14	0.0	3.8	46.2	0.0	6.7	52.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		143.5	-54.1	2.5	-15.1	-1.1		0.0	8.4	40.9	0.0	6.7	47.6
Asphalt Production	CNEL	113.8	1206	199.8	-57.0	2.5	-2.8	-2.3		0.0	0.0	54.2	0.0	6.7	60.9
BFW Pumps P-073A&B	CNEL	95.8		134.3	-53.6	2.5	-11.8	-0.6		0.0	0.1	32.5	0.0	6.7	39.1
Blower F 401	CNEL	113.0		84.4	-49.5	1.1	-12.8	-0.1		0.0	0.3	51.9	0.0	6.7	58.6
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.9	-60.3	2.3	-0.1	-1.3		0.0	0.0	39.3	0.0	6.7	45.9
Brine Transfer P-085	CNEL	96.2		121.9	-52.7	2.5	0.0	-1.2		0.0	0.3	45.1	0.0	6.7	51.8
Burner H301 North	CNEL	96.1	10	215.1	-57.6	2.7	-22.6	-1.3		0.0	8.8	29.1	0.0	6.7	35.8
Burner H301 South	CNEL	95.9	10	211.6	-57.5	2.7	-10.0	-1.3		0.0	0.6	33.4	0.0	6.7	40.1
Burner H302 North	CNEL	97.0	13	200.6	-57.0	2.6	-21.4	-1.2		0.0	8.8	31.9	0.0	6.7	38.5
Burner H302 South	CNEL	97.0	13	197.7	-56.9	2.6	-11.8	-1.3		0.0	2.3	35.0	0.0	6.7	41.6
Burner H303 North	CNEL	97.0	13	163.0	-55.2	2.5	-18.1	-0.8		0.0	8.2	36.5	0.0	6.7	43.2
Burner H303 South	CNEL	97.0	13	159.5	-55.0	2.5	-0.4	-1.5		0.0	0.1	45.6	0.0	6.7	52.3
Burner H304 North	CNEL	97.0	13	172.6	-55.7	2.6	-20.8	-0.9		0.0	6.7	31.8	0.0	6.7	38.5
Burner H304 South	CNEL	97.0	13	169.1	-55.6	2.6	-9.1	-1.3		0.0	1.8	38.4	0.0	6.7	45.1
Burner H305 North	CNEL	96.3	11	181.2	-56.2	2.6	-21.8	-1.0		0.0	9.0	32.0	0.0	6.7	38.7
Burner H305 South	CNEL	96.3	11	177.7	-56.0	2.6	-13.1	-0.9		0.0	1.6	33.5	0.0	6.7	40.2
Burner H306 North	CNEL	95.0	8	190.4	-56.6	2.6	-22.4	-1.1		0.0	12.0	32.6	0.0	6.7	39.3
Burner H306 South	CNEL	95.1	8	187.4	-56.4	2.6	-13.4	-1.0		0.0	2.2	31.9	0.0	6.7	38.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.2	-52.9	2.1	-10.3	-0.6	-0.56	3.5	2.1	48.2	0.0	6.7	54.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	129.1	-53.2	2.3	-0.9	-1.1	-0.60	0.0	0.0	47.1	0.0	6.7	53.7
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	133.1	-53.5	2.2	-14.9	-0.4	-0.18	-7.8	7.2	39.2	0.0	6.7	45.9
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.1	-52.8	2.1	-10.9	-0.6		0.0	0.0	48.5	0.0	6.7	55.1
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.5	-53.0	2.2	-8.6	-0.5	-0.59	-0.5	0.0	42.7	0.0	6.7	49.4
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.9	-53.3	2.1	-10.8	-0.4		-4.0	5.5	39.6	0.0	6.7	46.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.2	-54.0	2.5	-10.7	-0.5		-6.2	10.3	39.3	0.0	6.7	46.0
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	136.1	-53.7	2.4	0.0	-1.0		4.1	0.0	49.7	0.0	6.7	56.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.5	-12.8	-0.5		-7.2	0.1	28.0	0.0	6.7	34.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.1	-54.1	2.4	-3.9	-0.8		3.4	0.0	47.7	0.0	6.7	54.4
Cooling Tower M 512	CNEL	95.7		132.7	-53.4	2.6	-3.0	-0.7		0.0	2.8	44.0	0.0	6.7	50.7
Cooling Tower M 513	CNEL	95.7		132.0	-53.4	2.6	-2.6	-0.7		0.0	3.6	45.3	0.0	6.7	52.0
Cooling Tower M 514	CNEL	95.7		133.2	-53.5	2.6	-3.2	-0.7		0.0	3.0	43.9	0.0	6.7	50.6
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	292.0	-60.3	2.6	-3.6	-2.5		0.0	0.2	50.1	0.0	6.7	56.8
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	291.9	-60.3	2.5	-3.2	-2.6		0.0	0.0	50.2	0.0	6.7	56.9
CT Y-600-CT Y-600 North	CNEL	96.4	51	234.8	-58.4	2.3	-1.5	-1.4		0.0	0.0	40.3	0.0	6.7	47.0
CT Y-600-CT Y-600 South	CNEL	96.4	52	237.5	-58.5	2.0	-7.6	-0.9		0.0	0.1	34.6	0.0	6.7	41.3
Deaerator Skid P-058A&B	CNEL	96.2		141.0	-54.0	2.1	0.0	-1.3		0.0	0.6	43.7	0.0	6.7	50.4
Exhaust Stack	CNEL	100.6		122.7	-52.8	2.1	0.0	-0.2		0.0	0.0	49.7	0.0	6.7	56.4
F.G. After Cooler XF-083ABC	CNEL	100.2		158.3	-55.0	2.6	-6.8	-0.4		0.0	4.2	44.9	0.0	6.7	51.6
Fan Y-600	CNEL	107.5		236.0	-58.5	1.7	-8.7	-0.6		0.0	0.0	41.5	0.0	6.7	48.1
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	167.8	-55.5	2.1	-4.7	-0.1		0.0	0.0	24.1	0.0	6.7	30.8
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	174.0	-55.8	2.6	-7.4	-0.1		0.0	0.0	20.0	0.0	6.7	26.7
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	173.2	-55.8	2.6	-14.0	-0.9		0.0	0.0	6.1	0.0	6.7	12.8
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	168.8	-55.5	2.5	-8.1	-0.1		0.0	0.4	22.9	0.0	6.7	29.5
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	166.6	-55.4	2.5	0.0	-0.1		0.0	0.0	21.9	0.0	6.7	28.6
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	161.8	-55.2	2.5	-4.3	-0.1		0.0	0.1	23.8	0.0	6.7	30.5
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	161.2	-55.1	2.6	-12.1	-0.9		0.0	8.0	16.5	0.0	6.7	23.2
Fin Fan XF 616 - Above	CNEL	96.0	75	264.4	-59.4	1.9	0.0	-0.6		-10.9	0.0	26.9	0.0	6.7	33.6
Fin Fan XF 616 - Below	CNEL	108.0	75	264.4	-59.4	1.9	0.0	-0.9		-8.4	0.0	41.2	0.0	6.7	47.8
Fin Fan XF 617 - Above	CNEL	93.0	21	272.4	-59.7	1.9	0.0	-0.6		-11.0	0.0	23.6	0.0	6.7	30.2
Fin Fan XF 617 - Below	CNEL	104.0	21	272.4	-59.7	1.9	0.0	-0.9		-8.3	0.0	36.9	0.0	6.7	43.6
Heater # 5-Heater	CNEL	91.1	13	293.1	-60.3	2.4	-13.1	-0.6		0.0	0.0	22.5	0.0	6.7	29.2
Heater # 5-Heater	CNEL	91.1	13	288.3	-60.2	2.4	-10.8	-0.5		0.0	0.0	25.0	0.0	6.7	31.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	283.3	-60.0	2.3	-6.9	-0.8		0.0	0.0	28.6	0.0	6.7	35.3
Heater H 601	CNEL	89.1	13	276.6	-59.8	2.3	-0.2	-1.4		0.0	0.4	30.4	0.0	6.7	37.1
Hydro Heater H-402	CNEL	98.1		123.8	-52.8	2.6	-9.7	-0.3	-0.75	0.0	0.1	37.2	0.0	6.7	43.9
ID Fan	CNEL	110.3		188.8	-56.5	2.6	-15.8	-0.3		0.0	3.6	43.8	0.0	6.7	50.5
ID Fan 200 HP Motor	CNEL	104.4		187.1	-56.4	2.6	-17.8	-1.2		0.0	1.7	33.2	0.0	6.7	39.9
Incinirator Compressor & Motor	CNEL	92.5		367.9	-62.3	3.0	-3.9	-1.4		0.0	0.0	27.8	0.0	6.7	34.5
Incinirator Fin Fan	CNEL	94.8		367.0	-62.3	3.0	-3.7	-1.3		0.0	0.0	30.5	0.0	6.7	37.1
Lub Oil Cooler XF-061	CNEL	100.5		147.5	-54.4	2.6	-12.6	-0.2		0.0	10.5	46.3	0.0	6.7	53.0
Misc pumps motors	CNEL	100.2	332	229.9	-58.2	2.8	-11.5	-1.4		0.0	4.4	36.3	0.0	6.7	43.0
Motor & Pump P 56A/B	CNEL	93.7		137.8	-53.8	2.6	-4.3	-1.5	-1.09	0.0	0.0	35.6	0.0	6.7	42.3
Motor & Pump P 120/121	CNEL	96.2	2	181.4	-56.2	2.7	-17.5	-0.7	-1.16	0.0	7.7	31.1	0.0	6.7	37.8
Motor & Pump P 211/212	CNEL	93.7		111.3	-51.9	2.5	-5.8	-0.7	-0.20	0.0	0.0	37.5	0.0	6.7	44.1
Motor & Pump P 215/214	CNEL	94.6		116.4	-52.3	2.5	-4.1	-0.9	-0.20	0.0	0.3	39.9	0.0	6.7	46.5
Motor & Pump P 216	CNEL	98.3		111.8	-52.0	2.4	0.0	-1.1	-0.46	0.0	0.0	47.2	0.0	6.7	53.9
Motor & Pump P 217/218	CNEL	93.7		113.2	-52.1	2.5	-4.9	-0.8	-0.22	0.0	0.0	38.1	0.0	6.7	44.8
Motor & Pump P 300	CNEL	97.1	2	183.6	-56.3	2.7	0.0	-1.0	-1.05	0.0	0.0	41.5	0.0	6.7	48.2
Motor & Pump P 301	CNEL	102.1	2	181.9	-56.2	2.7	0.0	-0.9	-1.05	0.0	0.0	46.6	0.0	6.7	53.3
Motor & Pump P 302	CNEL	97.1	2	185.4	-56.4	2.7	0.0	-1.0	-1.05	0.0	0.0	41.4	0.0	6.7	48.1
Motor & Pump P 303	CNEL	97.1	2	186.8	-56.4	2.7	0.0	-1.0	-1.05	0.0	0.0	41.3	0.0	6.7	48.0
Motor & Pump P 305	CNEL	97.5	2	188.3	-56.5	2.7	0.0	-1.0	-1.05	0.0	0.0	41.7	0.0	6.7	48.3
Motor & Pump P 306	CNEL	112.6	4	197.5	-56.9	2.7	-0.9	-1.6	-1.12	0.0	0.5	55.3	0.0	6.7	62.0
Motor & Pump P 307	CNEL	102.1	2	177.0	-55.9	2.7	0.0	-0.9	-1.05	0.0	0.0	46.8	0.0	6.7	53.5
Motor & Pump P 309	CNEL	97.5	2	189.8	-56.6	2.7	0.0	-1.0	-1.05	0.0	0.0	41.6	0.0	6.7	48.3
Motor & Pump P 312	CNEL	101.5	2	154.9	-54.8	2.6	0.0	-0.8	-1.05	0.0	0.0	47.4	0.0	6.7	54.1
Motor & Pump P 313	CNEL	101.5	2	153.1	-54.7	2.6	0.0	-0.8	-1.04	0.0	0.0	47.6	0.0	6.7	54.2
Motor & Pump P 315	CNEL	102.9	2	146.6	-54.3	2.6	0.0	-0.8	-1.04	0.0	0.0	49.3	0.0	6.7	56.0
Motor & Pump P 316	CNEL	102.9	2	144.6	-54.2	2.6	0.0	-0.8	-1.04	0.0	0.0	49.5	0.0	6.7	56.1
Motor & Pump P 317	CNEL	102.9	2	142.6	-54.1	2.6	0.0	-0.8	-1.04	0.0	0.0	49.6	0.0	6.7	56.3
Motor & Pump P 318	CNEL	100.2	1	148.7	-54.4	2.6	0.0	-0.8	-1.05	0.0	0.0	46.5	0.0	6.7	53.2
Motor & Pump P 319	CNEL	100.2	1	150.1	-54.5	2.6	0.0	-0.8	-1.05	0.0	0.0	46.4	0.0	6.7	53.1
Motor & Pump P 327	CNEL	111.2	3	205.5	-57.2	2.7	-13.9	-1.0		0.0	0.1	41.9	0.0	6.7	48.5
Motor & Pump P 328	CNEL	109.9	5	191.6	-56.6	2.7	-0.9	-1.0	-1.05	0.0	0.1	53.1	0.0	6.7	59.8
Motor & Pump P 329	CNEL	110.2	5	194.5	-56.8	2.7	-1.0	-0.9	-1.03	0.0	0.2	53.3	0.0	6.7	60.0
Motor & Pump P 451	CNEL	93.7		117.4	-52.4	2.5	-4.6	-1.1	-0.43	0.0	0.1	37.8	0.0	6.7	44.5
Motor & Pump P 453	CNEL	93.7		107.0	-51.6	2.5	-4.0	-0.8	-0.04	0.0	0.0	39.8	0.0	6.7	46.4
Motor & Pump P 454	CNEL	93.7		117.4	-52.4	2.5	-13.4	-0.7	-0.58	0.0	1.0	30.1	0.0	6.7	36.7
Motor & Pump P 457	CNEL	93.7		105.5	-51.5	2.5	-3.1	-0.9	-0.01	0.0	0.4	41.0	0.0	6.7	47.7
Motor & Pump P 458	CNEL	93.7		117.7	-52.4	2.5	-11.1	-0.6	-0.36	0.0	0.0	31.7	0.0	6.7	38.4
Motor & Pump P 459	CNEL	93.7		118.4	-52.5	2.5	-13.5	-0.7	-0.60	0.0	1.0	30.0	0.0	6.7	36.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		149.0	-54.5	2.6	-7.9	-0.9	-0.10	0.0	0.0	35.5	0.0	6.7	42.1
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.6	-54.5	2.7	-3.5	-1.1		0.0	2.3	41.9	0.0	6.7	48.6
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.2	-56.3	2.7	-2.0	-1.5	-0.40	0.0	0.0	37.9	0.0	6.7	44.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.3	-56.4	2.7	-2.1	-1.5	-0.41	0.0	0.0	37.7	0.0	6.7	44.4
Motor & Pump P 1601 A	CNEL	96.3	2	160.1	-55.1	2.7	-2.2	-1.2		0.0	0.3	40.7	0.0	6.7	47.4
Motor & Pump P 1601 B	CNEL	96.3	2	160.8	-55.1	2.7	-2.1	-1.3		0.0	0.3	40.8	0.0	6.7	47.4
Motor & Pump P 1602 A	CNEL	96.3	2	161.2	-55.1	2.7	-4.4	-1.6		0.0	0.5	38.3	0.0	6.7	45.0
Motor & Pump P 1602 B	CNEL	96.5	2	161.9	-55.2	2.7	-8.1	-1.1		0.0	1.0	35.8	0.0	6.7	42.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.6	-54.7	2.7	0.0	-1.5	-0.08	0.0	0.0	43.1	0.0	6.7	49.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	157.1	-54.9	2.7	0.0	-1.5	-0.18	0.0	0.0	42.7	0.0	6.7	49.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.4	-55.0	2.7	0.0	-1.5	-0.24	0.0	0.0	42.5	0.0	6.7	49.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.2	-54.6	2.7	-3.9	-1.2	-0.02	0.0	0.0	39.7	0.0	6.7	46.3
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.9	-54.7	2.7	-2.8	-1.3	-0.02	0.0	0.0	40.5	0.0	6.7	47.2
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.6	-55.4	2.7	-5.1	-1.2	-0.37	0.0	1.2	38.2	0.0	6.7	44.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.8	-55.4	2.7	0.0	-1.6	-0.35	0.0	0.2	41.9	0.0	6.7	48.5
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.3	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.1	41.9	0.0	6.7	48.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.9	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.7	42.5	0.0	6.7	49.1
P602 100 HP	CNEL	94.1		260.9	-59.3	2.4	-13.6	-0.7		0.0	0.0	22.9	0.0	6.7	29.5
P603 60 HP	CNEL	95.0		255.4	-59.1	2.4	-17.0	-1.1		0.0	0.0	20.2	0.0	6.7	26.9
P605 40 HP	CNEL	95.0		256.8	-59.2	2.4	-16.8	-1.1		0.0	0.0	20.3	0.0	6.7	27.0
P607 15 HP	CNEL	90.5		266.4	-59.5	2.4	-14.5	-0.8		0.0	0.0	18.1	0.0	6.7	24.8
P608 15 HP	CNEL	90.5		269.1	-59.6	2.4	-14.2	-0.8		0.0	0.0	18.3	0.0	6.7	25.0
P611 15 HP	CNEL	90.5		263.6	-59.4	2.4	-14.7	-0.8		0.0	0.0	18.0	0.0	6.7	24.7
P614/615 20 HP	CNEL	93.0		257.8	-59.2	2.4	-11.2	-0.8		0.0	0.0	24.2	0.0	6.7	30.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.7	-50.0	1.0	-0.1	-0.3		0.0	0.3	85.5	-38.6	0.0	46.9
Scanner Blower C-084A/B	CNEL	95.5		142.6	-54.1	2.6	-2.8	-0.6		0.0	1.5	42.1	0.0	6.7	48.7
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	127.1	-53.1	2.5	-6.9	-0.1		0.0	1.0	14.9	0.0	6.7	21.6
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	124.8	-52.9	2.6	-1.5	-0.1		0.0	0.2	18.1	0.0	6.7	24.8
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	125.8	-53.0	2.0	-4.0	-0.1		0.0	1.5	15.8	0.0	6.7	22.5
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	125.5	-53.0	2.4	-2.2	-0.1		0.0	0.0	18.7	0.0	6.7	25.4
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	123.8	-52.8	2.5	-0.9	-0.2		0.0	0.0	20.4	0.0	6.7	27.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	144.7	-54.2	2.5	-8.3	-0.2		0.0	0.4	20.3	0.0	6.7	27.0
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	145.6	-54.3	2.5	-12.1	-0.1		0.0	0.1	15.3	0.0	6.7	21.9
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	141.8	-54.0	2.4	-11.7	-0.1		0.0	2.8	29.5	0.0	6.7	36.2
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	146.0	-54.3	2.5	-12.0	-0.1		0.0	2.2	19.9	0.0	6.7	26.6
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	141.3	-54.0	2.0	-4.7	-0.3		0.0	0.7	29.2	0.0	6.7	35.9
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	140.4	-53.9	2.4	-1.5	-0.2		0.0	0.1	37.0	0.0	6.7	43.6
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	145.4	-54.2	2.5	-7.3	-0.2		0.0	0.4	22.6	0.0	6.7	29.2
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	156.8	-54.9	2.6	-14.0	-0.6		0.0	0.4	32.8	0.0	6.7	39.4
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	152.1	-54.6	2.6	-15.6	-0.5		0.0	9.7	46.3	0.0	6.7	53.0
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	151.4	-54.6	2.4	-4.0	-1.2		0.0	0.9	44.9	0.0	6.7	51.6
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	150.7	-54.6	2.6	-1.3	-1.1		0.0	0.1	50.5	0.0	6.7	57.1
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	146.8	-54.3	2.6	-16.1	-0.6		0.0	11.1	36.2	0.0	6.7	42.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	145.7	-54.3	2.6	-3.5	-0.8		0.0	0.1	37.7	0.0	6.7	44.4
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	132.2	-53.4	2.0	-4.7	-0.2		0.0	0.7	22.4	0.0	6.7	29.1
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	137.5	-53.8	2.4	-10.4	-0.1		0.0	1.1	11.1	0.0	6.7	17.8
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	133.8	-53.5	2.4	-8.7	-0.1		0.0	0.7	19.7	0.0	6.7	26.4
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	129.5	-53.2	2.4	-4.9	-0.2		0.0	0.6	18.0	0.0	6.7	24.7
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	135.6	-53.6	2.4	-4.8	-0.2		0.0	0.1	17.8	0.0	6.7	24.4
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	131.0	-53.3	2.4	-1.5	-0.2		0.0	0.0	26.4	0.0	6.7	33.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	127.2	-53.1	2.3	-2.3	-0.2		0.0	1.0	21.1	0.0	6.7	27.8
Tank Farm Pump 1	CNEL	99.0	3	341.6	-61.7	3.2	-1.9	-3.1		0.0	0.0	35.5	0.0	6.7	42.2
Tank Farm Pump 2	CNEL	99.0	3	361.9	-62.2	3.3	-4.0	-2.8		0.0	0.0	33.4	0.0	6.7	40.1
Tank Farm Pump 3	CNEL	99.0	3	367.5	-62.3	3.4	-2.4	-2.6		0.0	0.0	35.1	0.0	6.7	41.8
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.3	-52.7	1.3	0.0	-1.8		0.0	0.2	59.3	-16.8	0.0	42.5
Vaporizer Blower 1	CNEL	88.7		142.8	-54.1	2.6	-16.3	-0.5		0.0	13.9	34.3	0.0	6.7	40.9
Vaporizer Blower 2	CNEL	88.7		142.9	-54.1	2.6	-15.2	-0.5		0.0	12.8	34.4	0.0	6.7	41.0
Vaporizer Inlet Silencer	CNEL	73.7		144.2	-54.2	2.6	-8.2	-0.2		0.0	4.5	18.2	0.0	6.7	24.9
Vaporizer Motor 1	CNEL	83.6		142.4	-54.1	2.6	-17.2	-0.7		0.0	14.9	29.2	0.0	6.7	35.9
Vaporizer Motor 2	CNEL	83.6		142.4	-54.1	2.6	-16.2	-0.6		0.0	14.0	29.3	0.0	6.7	35.9
Water Treatment Pumps P-056A&B	CNEL	93.0		125.3	-53.0	2.5	-4.6	-1.0		0.0	0.0	36.9	0.0	6.7	43.6
XF-1502 Splitter Area 1	CNEL	104.5		161.4	-55.2	2.4	0.0	-1.2	0.00	-4.2	0.0	46.3	0.0	6.7	53.0
XF-1502 Splitter Area 2	CNEL	104.5		157.9	-55.0	2.3	0.0	-1.2		-4.2	0.0	46.5	0.0	6.7	53.2
XF-1504 Splitter Area 1	CNEL	104.5		163.0	-55.2	2.4	0.0	-1.2	-0.02	-4.3	0.0	46.2	0.0	6.7	52.8
XF-1504 Splitter Area 2	CNEL	104.5		159.5	-55.0	2.4	-4.6	-1.0		-3.9	0.0	42.4	0.0	6.7	49.1
XF 304, XF 321	CNEL	110.5	56	180.7	-56.1	2.3	-0.1	-0.7	0.00	-3.0	0.1	52.9	0.0	6.7	59.6
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	2.4	-4.7	-0.8	-1.31	-3.7	0.0	47.3	0.0	6.7	53.9
XF 335-1, XF 335-2	CNEL	113.4	54	193.0	-56.7	2.4	-3.9	-0.9	-0.01	-2.9	0.5	51.8	0.0	6.7	58.5
XF 503	CNEL	113.0	21	129.8	-53.3	2.1	0.0	-2.0	-1.00	-3.8	0.0	55.0	0.0	6.7	61.7
XF - 1601	CNEL	96.6		159.9	-55.1	2.4	0.0	-0.5		-2.5	0.0	40.8	0.0	6.7	47.5
XF - 1602	CNEL	96.6		162.8	-55.2	2.4	0.0	-0.6		-2.6	0.0	40.6	0.0	6.7	47.3
XF Module 1510	CNEL	108.3		152.4	-54.7	2.3	0.0	-1.1	-0.10	-4.2	0.0	50.5	0.0	6.7	57.2
XF Module 1519	CNEL	109.0		157.5	-54.9	2.3	0.0	-1.2	-0.13	-4.2	0.0	50.9	0.0	6.7	57.6
xxxx xxxx xxxx xxxx	CNEL		606								2.6				25.3
xxxx xxxx xxxx xxxx	CNEL		606								2.6				25.3
xxxx xxxx xxxx xxxx	CNEL		917								1.6				36.1
xxxx xxxx xxxx xxxx	CNEL		917								0.5				35.3
xxxx xxxx xxxx xxxx	CNEL		608								1.4				39.5
xxxx xxxx xxxx xxxx	CNEL		608								1.2				39.1
xxxx xxxx xxxx xxxx	CNEL		1172								2.6				43.7
xxxx xxxx xxxx xxxx	CNEL		520								2.8				26.7
xxxx xxxx xxxx xxxx	CNEL		572								3.1				41.0

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	Ls dB(A)	dLw dB	ZR dB	Lr dB(A)
Receiver SS-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 65.2 dB(A)			Ld 7-19 dB(A)		Leq,N 64.9 dB(A)		Le 19-22 dB(A)		CNEL 71.7 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	142.9	-54.1	2.3	-0.3	0.0		0.0	0.0	41.4	0.0	6.7	48.0
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	83.9	-49.5	1.3	-0.1	-1.8		0.0	0.2	59.2	-10.8	0.0	48.4
Air Compressor C 1	CNEL	110.0	5	208.3	-57.4	3.3	-14.5	-0.4	-1.15	0.0	3.0	42.8	0.0	6.7	49.5
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		127.7	-53.1	2.3	-17.3	-1.4		0.0	1.6	32.4	0.0	6.7	39.0
Asphalt Production	CNEL	113.8	1206	178.2	-56.0	1.9	-3.3	-2.0		0.0	0.9	55.4	0.0	6.7	62.0
BFW Pumps P-073A&B	CNEL	95.8		119.4	-52.5	2.3	-15.3	-0.6		0.0	13.2	42.8	0.0	6.7	49.5
Blower F 401	CNEL	113.0		96.0	-50.6	0.6	-13.2	-0.1		0.0	0.1	49.6	0.0	6.7	56.3
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.7	-59.4	2.3	-1.5	-1.6		0.0	0.0	38.3	0.0	6.7	45.0
Brine Transfer P-085	CNEL	96.2		108.1	-51.7	2.6	0.0	-1.1		0.0	0.7	46.7	0.0	6.7	53.4
Burner H301 North	CNEL	96.1	10	234.2	-58.4	3.2	-22.3	-1.3	-0.27	0.0	7.5	27.5	0.0	6.7	34.1
Burner H301 South	CNEL	95.9	10	230.8	-58.3	3.1	-11.9	-1.0	-0.41	0.0	0.5	31.0	0.0	6.7	37.7
Burner H302 North	CNEL	97.0	13	220.1	-57.8	3.0	-22.6	-1.3	-0.05	0.0	7.4	28.7	0.0	6.7	35.3
Burner H302 South	CNEL	97.0	13	217.3	-57.7	3.0	-14.4	-0.9	-0.06	0.0	2.5	32.3	0.0	6.7	39.0
Burner H303 North	CNEL	97.0	13	183.7	-56.3	2.5	-21.3	-1.0		0.0	7.6	31.6	0.0	6.7	38.2
Burner H303 South	CNEL	97.0	13	180.3	-56.1	2.5	-1.8	-1.4		0.0	0.0	43.2	0.0	6.7	49.9
Burner H304 North	CNEL	97.0	13	193.0	-56.7	2.7	-22.5	-1.2		0.0	7.3	29.6	0.0	6.7	36.3
Burner H304 South	CNEL	97.0	13	189.6	-56.5	2.6	-15.0	-0.8		0.0	3.0	33.3	0.0	6.7	40.0
Burner H305 North	CNEL	96.3	11	201.2	-57.1	2.8	-23.0	-1.3		0.0	10.4	31.2	0.0	6.7	37.8
Burner H305 South	CNEL	96.3	11	197.8	-56.9	2.7	-17.7	-0.9		0.0	3.2	29.8	0.0	6.7	36.5
Burner H306 North	CNEL	95.0	8	210.0	-57.4	2.9	-22.6	-1.2		0.0	10.0	29.7	0.0	6.7	36.3
Burner H306 South	CNEL	95.1	8	207.1	-57.3	2.9	-14.5	-0.8		0.0	2.7	31.0	0.0	6.7	37.7
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.6	-54.0	1.6	-11.1	-0.6	-0.65	4.4	3.0	47.4	0.0	6.7	54.1
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.7	-54.3	1.7	-0.1	-1.3	-0.81	0.0	0.2	45.9	0.0	6.7	52.6
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.3	-54.6	1.7	-16.9	-0.4	-0.37	-7.8	6.0	34.2	0.0	6.7	40.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.0	-54.0	1.4	-11.0	-0.8	-0.12	0.4	0.0	46.7	0.0	6.7	53.3
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.5	-54.1	1.7	-9.4	-0.5	-0.69	0.2	0.1	41.0	0.0	6.7	47.7
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.0	-54.5	1.6	-13.7	-0.4		-5.5	8.8	36.7	0.0	6.7	43.4
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.6	-54.3	2.3	-17.2	-0.4		-4.3	0.0	23.9	0.0	6.7	30.6
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.7	-54.1	2.0	0.0	-1.1		4.7	0.0	49.4	0.0	6.7	56.1
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.8	-54.7	2.0	-13.4	-0.5		-6.1	0.0	28.0	0.0	6.7	34.6
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.3	-54.3	2.1	-8.8	-0.4		4.3	0.0	43.6	0.0	6.7	50.2
Cooling Tower M 512	CNEL	95.7		137.8	-53.8	2.5	0.0	-0.7		0.0	2.8	46.5	0.0	6.7	53.2
Cooling Tower M 513	CNEL	95.7		137.3	-53.7	2.4	0.0	-0.7		0.0	2.8	46.4	0.0	6.7	53.0
Cooling Tower M 514	CNEL	95.7		138.0	-53.8	2.5	0.0	-0.7		0.0	2.7	46.3	0.0	6.7	53.0
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	267.3	-59.5	3.3	-4.7	-2.5		0.0	0.2	50.5	0.0	6.7	57.2
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	267.3	-59.5	2.6	-4.1	-2.5		0.0	0.2	50.4	0.0	6.7	57.0
CT Y-600-CT Y-600 North	CNEL	96.4	51	209.5	-57.4	1.5	-5.5	-1.0		0.0	0.0	37.0	0.0	6.7	43.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	211.6	-57.5	1.4	-7.3	-0.9		0.0	0.1	35.0	0.0	6.7	41.7
Deaerator Skid P-058A&B	CNEL	96.2		128.0	-53.1	1.8	0.0	-1.2		0.0	1.7	45.4	0.0	6.7	52.0
Exhaust Stack	CNEL	100.6		112.4	-52.0	1.5	0.0	-0.2		-0.1	0.0	49.9	0.0	6.7	56.6
F.G. After Cooler XF-083ABC	CNEL	100.2		141.8	-54.0	1.9	-9.2	-0.3		0.0	6.7	45.2	0.0	6.7	51.9
Fan Y-600	CNEL	107.5		210.5	-57.5	0.7	-9.4	-0.5		0.0	0.0	40.8	0.0	6.7	47.5
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	151.0	-54.6	0.9	-4.4	-0.1		0.0	0.1	24.3	0.0	6.7	31.0
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	156.7	-54.9	1.8	-8.1	-0.1		0.0	0.0	19.5	0.0	6.7	26.2
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	155.6	-54.8	2.3	-14.5	-0.8		0.0	0.2	6.5	0.0	6.7	13.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	152.2	-54.6	1.8	-10.3	0.0		0.0	0.3	20.7	0.0	6.7	27.4
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	149.1	-54.5	1.5	0.0	-0.1		0.0	0.0	21.9	0.0	6.7	28.5
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	145.0	-54.2	1.7	-5.0	-0.1		0.0	0.1	23.2	0.0	6.7	29.9
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	144.2	-54.2	2.3	-13.3	-0.7		0.0	6.4	14.6	0.0	6.7	21.3
Fin Fan XF 616 - Above	CNEL	96.0	75	239.2	-58.6	0.7	-0.1	-0.6		-12.7	0.0	24.6	0.0	6.7	31.3
Fin Fan XF 616 - Below	CNEL	108.0	75	239.2	-58.6	0.7	0.0	-0.9		-7.3	0.0	41.9	0.0	6.7	48.6
Fin Fan XF 617 - Above	CNEL	93.0	21	247.3	-58.9	0.7	-0.1	-0.6		-12.8	0.0	21.3	0.0	6.7	28.0
Fin Fan XF 617 - Below	CNEL	104.0	21	247.2	-58.9	0.8	-0.1	-1.0		-7.3	0.0	37.6	0.0	6.7	44.3
Heater # 5-Heater	CNEL	91.1	13	267.2	-59.5	2.4	-12.8	-0.6		0.0	0.1	23.6	0.0	6.7	30.3
Heater # 5-Heater	CNEL	91.1	13	262.3	-59.4	2.4	-10.9	-0.6		0.0	0.0	25.6	0.0	6.7	32.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	257.3	-59.2	2.3	-6.9	-0.9		0.0	0.0	29.4	0.0	6.7	36.1
Heater H 601	CNEL	89.1	13	250.4	-59.0	2.0	-1.2	-1.7		0.0	0.2	29.4	0.0	6.7	36.1
Hydro Heater H-402	CNEL	98.1		134.0	-53.5	1.8	-3.4	-0.5	-0.04	0.0	0.5	42.9	0.0	6.7	49.6
ID Fan	CNEL	110.3		210.1	-57.4	1.8	-16.9	-0.4		0.0	3.6	40.8	0.0	6.7	47.5
ID Fan 200 HP Motor	CNEL	104.4		208.4	-57.4	2.9	-22.2	-1.3		0.0	4.3	30.7	0.0	6.7	37.3
Incinirator Compressor & Motor	CNEL	92.5		341.5	-61.7	2.9	-3.9	-1.5		0.0	0.1	28.4	0.0	6.7	35.1
Incinirator Fin Fan	CNEL	94.8		340.6	-61.6	3.1	-3.6	-1.3		0.0	0.1	31.5	0.0	6.7	38.1
Lub Oil Cooler XF-061	CNEL	100.5		134.3	-53.6	2.0	-15.7	-0.2		0.0	14.5	47.6	0.0	6.7	54.2
Misc pumps motors	CNEL	100.2	332	221.0	-57.9	3.3	-15.8	-1.0		0.0	5.7	34.6	0.0	6.7	41.3
Motor & Pump P 56A/B	CNEL	93.7		149.8	-54.5	2.6	-5.8	-1.1	-1.12	0.0	0.0	33.8	0.0	6.7	40.4
Motor & Pump P 120/121	CNEL	96.2	2	195.4	-56.8	3.3	-20.4	-0.7	-1.19	0.0	7.1	27.5	0.0	6.7	34.2
Motor & Pump P 211/212	CNEL	93.7		126.7	-53.0	2.3	0.0	-1.3	-0.58	0.0	0.2	41.3	0.0	6.7	47.9
Motor & Pump P 215/214	CNEL	94.6		131.8	-53.4	2.4	0.0	-1.3	-0.68	0.0	0.4	42.1	0.0	6.7	48.7
Motor & Pump P 216	CNEL	98.3		128.4	-53.2	2.1	0.0	-1.3	-0.53	0.0	0.2	45.6	0.0	6.7	52.3
Motor & Pump P 217/218	CNEL	93.7		128.6	-53.2	2.8	0.0	-1.3	-0.62	0.0	0.2	41.5	0.0	6.7	48.2
Motor & Pump P 300	CNEL	97.1	2	199.0	-57.0	3.3	-6.5	-0.9	-1.17	0.0	0.0	35.0	0.0	6.7	41.7
Motor & Pump P 301	CNEL	102.1	2	197.3	-56.9	3.3	-5.6	-0.9	-1.17	0.0	0.0	40.8	0.0	6.7	47.5
Motor & Pump P 302	CNEL	97.1	2	200.8	-57.0	3.4	-7.6	-0.8	-1.17	0.0	0.0	33.9	0.0	6.7	40.5
Motor & Pump P 303	CNEL	97.1	2	202.3	-57.1	3.3	-7.8	-0.8	-1.17	0.0	0.1	33.5	0.0	6.7	40.2
Motor & Pump P 305	CNEL	97.5	2	203.7	-57.2	3.3	-8.5	-0.8	-1.18	0.0	0.1	33.2	0.0	6.7	39.9
Motor & Pump P 306	CNEL	112.6	4	212.8	-57.6	3.0	-10.2	-0.8	-1.26	0.0	0.1	46.0	0.0	6.7	52.6
Motor & Pump P 307	CNEL	102.1	2	192.4	-56.7	3.3	-3.2	-0.9	-1.17	0.0	0.0	43.4	0.0	6.7	50.1
Motor & Pump P 309	CNEL	97.5	2	205.2	-57.2	3.3	-9.1	-0.8	-1.18	0.0	0.0	32.6	0.0	6.7	39.2
Motor & Pump P 312	CNEL	101.5	2	170.6	-55.6	3.2	0.0	-0.9	-1.15	0.0	0.2	47.2	0.0	6.7	53.9
Motor & Pump P 313	CNEL	101.5	2	168.9	-55.5	3.2	0.0	-0.9	-1.15	0.0	0.2	47.3	0.0	6.7	53.9
Motor & Pump P 315	CNEL	102.9	2	162.5	-55.2	2.9	0.0	-0.9	-1.15	0.0	0.2	48.8	0.0	6.7	55.4
Motor & Pump P 316	CNEL	102.9	2	160.5	-55.1	2.9	-0.4	-0.9	-1.02	0.0	0.2	48.6	0.0	6.7	55.3
Motor & Pump P 317	CNEL	102.9	2	158.5	-55.0	2.8	-0.7	-0.8	-0.94	0.0	0.3	48.5	0.0	6.7	55.2
Motor & Pump P 318	CNEL	100.2	1	164.4	-55.3	3.2	0.0	-0.9	-1.15	0.0	0.1	46.2	0.0	6.7	52.9
Motor & Pump P 319	CNEL	100.2	1	165.9	-55.4	3.2	0.0	-0.9	-1.15	0.0	0.1	46.1	0.0	6.7	52.8
Motor & Pump P 327	CNEL	111.2	3	220.8	-57.9	3.6	-19.8	-1.2	-1.15	0.0	0.6	35.3	0.0	6.7	42.0
Motor & Pump P 328	CNEL	109.9	5	207.0	-57.3	3.2	-8.3	-0.9	-1.18	0.0	0.1	45.5	0.0	6.7	52.2
Motor & Pump P 329	CNEL	110.2	5	209.9	-57.4	3.2	-9.6	-0.8	-1.15	0.0	0.2	44.6	0.0	6.7	51.2
Motor & Pump P 451	CNEL	93.7		127.2	-53.1	2.3	-11.9	-0.6		0.0	4.0	34.3	0.0	6.7	41.0
Motor & Pump P 453	CNEL	93.7		115.7	-52.3	2.3	0.0	-1.2		0.0	0.0	42.5	0.0	6.7	49.2
Motor & Pump P 454	CNEL	93.7		127.5	-53.1	2.3	-5.8	-0.8	-0.07	0.0	1.4	37.6	0.0	6.7	44.2
Motor & Pump P 457	CNEL	93.7		114.1	-52.1	2.3	0.0	-1.2		0.0	0.0	42.6	0.0	6.7	49.3
Motor & Pump P 458	CNEL	93.7		127.2	-53.1	2.3	-8.6	-0.8		0.0	0.0	33.4	0.0	6.7	40.1
Motor & Pump P 459	CNEL	93.7		128.5	-53.2	2.3	-5.6	-0.9	-0.08	0.0	1.4	37.6	0.0	6.7	44.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.2	-54.9	2.9	-13.9	-0.8		0.0	0.0	29.6	0.0	6.7	36.2
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		158.9	-55.0	3.0	-12.2	-0.8		0.0	0.0	31.1	0.0	6.7	37.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.2	-56.7	3.4	-4.2	-1.2	-0.75	0.0	0.2	36.1	0.0	6.7	42.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.4	-56.8	3.4	-4.2	-1.2	-0.75	0.0	0.2	36.1	0.0	6.7	42.7
Motor & Pump P 1601 A	CNEL	96.3	2	163.8	-55.3	2.7	-11.5	-0.8		0.0	0.0	31.4	0.0	6.7	38.1
Motor & Pump P 1601 B	CNEL	96.3	2	164.3	-55.3	2.7	-15.8	-0.9		0.0	0.0	27.1	0.0	6.7	33.7
Motor & Pump P 1602 A	CNEL	96.3	2	164.4	-55.3	2.7	-19.3	-0.9		0.0	0.0	23.5	0.0	6.7	30.2
Motor & Pump P 1602 B	CNEL	96.5	2	164.9	-55.3	2.7	-19.9	-0.9		0.0	0.0	23.1	0.0	6.7	29.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.2	-55.0	3.1	-9.2	-1.0	-0.08	0.0	0.0	34.4	0.0	6.7	41.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.0	-55.3	3.1	-4.6	-1.4	-0.18	0.0	0.0	38.3	0.0	6.7	45.0
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.4	-55.4	3.1	-3.3	-1.4	-0.23	0.0	0.0	39.4	0.0	6.7	46.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.4	-55.1	3.0	-10.4	-0.9		0.0	0.0	33.3	0.0	6.7	39.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.2	-55.2	3.0	-9.4	-0.9		0.0	0.0	34.2	0.0	6.7	40.9
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.8	-55.7	3.3	-14.3	-0.9	-0.27	0.0	0.5	29.0	0.0	6.7	35.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.3	-55.7	3.3	-11.1	-0.9	-0.36	0.0	0.4	31.9	0.0	6.7	38.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.5	-55.7	3.2	0.0	-1.6	-0.33	0.0	0.1	41.9	0.0	6.7	48.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.8	-55.7	3.2	-7.5	-1.1	-0.35	0.0	0.3	35.2	0.0	6.7	41.9
P602 100 HP	CNEL	94.1		235.1	-58.4	2.7	-15.3	-0.7		0.0	0.0	22.3	0.0	6.7	29.0
P603 60 HP	CNEL	95.0		229.6	-58.2	2.8	-16.5	-1.0		0.0	0.0	22.2	0.0	6.7	28.8
P605 40 HP	CNEL	95.0		231.0	-58.3	2.8	-17.2	-1.0		0.0	0.0	21.4	0.0	6.7	28.1
P607 15 HP	CNEL	90.5		240.7	-58.6	2.9	-15.6	-0.7		0.0	2.8	21.2	0.0	6.7	27.9
P608 15 HP	CNEL	90.5		243.4	-58.7	3.0	-15.2	-0.7		0.0	0.0	18.8	0.0	6.7	25.5
P611 15 HP	CNEL	90.5		237.9	-58.5	2.9	-15.8	-0.7		0.0	0.0	18.3	0.0	6.7	25.0
P614/615 20 HP	CNEL	93.0		232.4	-58.3	2.4	-15.5	-0.8		0.0	2.6	23.3	0.0	6.7	30.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.0	-49.9	0.6	-0.6	-0.3		0.0	0.3	84.8	-38.6	0.0	46.3
Scanner Blower C-084A/B	CNEL	95.5		128.8	-53.2	2.3	-6.2	-0.5		0.0	2.0	39.9	0.0	6.7	46.6
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	116.0	-52.3	1.9	-8.1	-0.1		0.0	1.9	14.8	0.0	6.7	21.5
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	113.8	-52.1	2.0	-11.0	-0.1		0.0	3.9	12.6	0.0	6.7	19.3
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	114.5	-52.2	1.4	-4.6	-0.1		0.0	1.3	15.3	0.0	6.7	22.0
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	113.8	-52.1	1.9	-1.3	-0.1		0.0	0.0	20.0	0.0	6.7	26.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	112.5	-52.0	1.9	-2.2	-0.1		0.0	0.0	19.3	0.0	6.7	26.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	130.9	-53.3	2.0	-15.1	-0.1		0.0	2.1	15.6	0.0	6.7	22.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	132.2	-53.4	2.0	-15.1	-0.1		0.0	1.2	13.9	0.0	6.7	20.5
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	128.8	-53.2	2.0	-14.0	-0.1		0.0	9.1	33.9	0.0	6.7	40.6
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	132.5	-53.4	2.0	-15.1	-0.1		0.0	8.1	23.2	0.0	6.7	29.8
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	128.2	-53.1	1.4	-4.5	-0.3		0.0	1.3	30.2	0.0	6.7	36.9
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	127.0	-53.1	2.0	-1.7	-0.2		0.0	0.1	37.2	0.0	6.7	43.8
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	131.7	-53.4	2.0	-13.6	-0.1		0.0	1.5	17.8	0.0	6.7	24.5
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	142.2	-54.1	2.3	-18.8	-0.5		0.0	1.7	29.9	0.0	6.7	36.6
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	138.2	-53.8	2.3	-19.3	-0.5		0.0	15.2	48.6	0.0	6.7	55.3
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	138.0	-53.8	1.8	-5.1	-1.0		0.0	2.0	45.3	0.0	6.7	52.0
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	136.3	-53.7	2.2	-7.4	-0.6		0.0	0.9	46.2	0.0	6.7	52.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	133.3	-53.5	2.2	-20.7	-0.6		0.0	18.6	39.5	0.0	6.7	46.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	131.9	-53.4	2.2	-6.4	-0.6		0.0	0.2	35.6	0.0	6.7	42.3
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	120.1	-52.6	1.4	-4.3	-0.2		0.0	0.5	22.9	0.0	6.7	29.6
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	125.2	-52.9	1.9	-11.8	-0.1		0.0	6.3	15.3	0.0	6.7	22.0
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	122.0	-52.7	1.9	-11.0	-0.1		0.0	4.5	21.5	0.0	6.7	28.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	118.1	-52.4	1.9	-8.2	-0.1		0.0	0.4	15.0	0.0	6.7	21.6
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	122.6	-52.8	1.9	-5.7	-0.1		0.0	0.0	17.1	0.0	6.7	23.8
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	118.4	-52.5	1.8	-1.1	-0.2		0.0	0.0	27.1	0.0	6.7	33.8
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	115.2	-52.2	1.8	0.0	-0.2		0.0	0.0	22.8	0.0	6.7	29.5
Tank Farm Pump 1	CNEL	99.0	3	324.7	-61.2	4.1	-6.6	-1.7		0.0	0.0	33.5	0.0	6.7	40.2
Tank Farm Pump 2	CNEL	99.0	3	344.5	-61.7	4.2	-5.6	-1.9		0.0	0.0	34.0	0.0	6.7	40.7
Tank Farm Pump 3	CNEL	99.0	3	350.0	-61.9	4.2	-5.1	-2.0		0.0	0.0	34.3	0.0	6.7	41.0
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.5	-52.7	1.2	-0.1	-1.8		0.0	0.3	59.3	-16.8	0.0	42.5
Vaporizer Blower 1	CNEL	88.7		130.0	-53.3	2.6	-21.1	-0.5		0.0	20.7	37.2	0.0	6.7	43.9
Vaporizer Blower 2	CNEL	88.7		130.2	-53.3	2.6	-20.3	-0.4		0.0	20.0	37.2	0.0	6.7	43.9
Vaporizer Inlet Silencer	CNEL	73.7		131.4	-53.4	1.8	-12.4	-0.1		0.0	9.5	19.1	0.0	6.7	25.7
Vaporizer Motor 1	CNEL	83.6		129.6	-53.2	2.6	-21.9	-0.6		0.0	21.7	32.2	0.0	6.7	38.9
Vaporizer Motor 2	CNEL	83.6		129.8	-53.3	2.6	-21.2	-0.6		0.0	21.0	32.2	0.0	6.7	38.9
Water Treatment Pumps P-056A&B	CNEL	93.0		111.6	-51.9	2.5	0.0	-1.1		0.0	0.0	42.5	0.0	6.7	49.2
XF-1502 Splitter Area 1	CNEL	104.5		168.5	-55.5	2.0	0.0	-1.2	-0.26	-4.4	0.0	45.1	0.0	6.7	51.7
XF-1502 Splitter Area 2	CNEL	104.5		164.8	-55.3	2.0	0.0	-1.2	-0.07	-4.4	0.0	45.5	0.0	6.7	52.2
XF-1504 Splitter Area 1	CNEL	104.5		169.3	-55.6	2.0	-5.0	-0.9	0.00	-3.9	0.0	41.2	0.0	6.7	47.9
XF-1504 Splitter Area 2	CNEL	104.5		165.7	-55.4	2.0	-5.3	-0.9		-3.9	0.0	41.0	0.0	6.7	47.7
XF 304, XF 321	CNEL	110.5	56	197.2	-56.9	1.5	-0.6	-0.8	-1.05	-3.1	0.1	49.7	0.0	6.7	56.4
XF 313, XF 314	CNEL	113.0	18	227.5	-58.1	1.7	-3.2	-1.0	-1.53	-4.0	0.0	46.9	0.0	6.7	53.5
XF 335-1, XF 335-2	CNEL	113.4	54	209.2	-57.4	1.6	-4.2	-0.9	-1.38	-3.1	0.4	48.4	0.0	6.7	55.1
XF 503	CNEL	113.0	21	144.2	-54.2	1.6	-0.7	-2.6	-0.99	-4.3	0.3	52.3	0.0	6.7	58.9
XF - 1601	CNEL	96.6		163.7	-55.3	1.7	-0.3	-0.6		-3.1	0.0	39.0	0.0	6.7	45.7
XF - 1602	CNEL	96.6		165.6	-55.4	1.7	0.0	-0.6		-2.8	0.0	39.5	0.0	6.7	46.2
XF Module 1510	CNEL	108.3		160.0	-55.1	2.0	-0.6	-1.3	-0.10	-4.6	0.0	48.6	0.0	6.7	55.3
XF Module 1519	CNEL	109.0		165.3	-55.4	2.0	-0.8	-1.4	-0.21	-4.6	0.0	48.6	0.0	6.7	55.3
xxxx xxxx xxxx xxxx	CNEL		606								2.0				24.0
xxxx xxxx xxxx xxxx	CNEL		606								2.1				24.1
xxxx xxxx xxxx xxxx	CNEL		917								2.2				36.7
xxxx xxxx xxxx xxxx	CNEL		917								1.5				36.0
xxxx xxxx xxxx xxxx	CNEL		608								1.7				35.4
xxxx xxxx xxxx xxxx	CNEL		608								1.8				35.4
xxxx xxxx xxxx xxxx	CNEL		1172								2.5				42.5
xxxx xxxx xxxx xxxx	CNEL		520								3.3				25.3
xxxx xxxx xxxx xxxx	CNEL		572								2.3				39.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-2 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.7 dB(A) Ld 7-19 dB(A) Leq,N 65.4 dB(A) Le 19-22 dB(A) CNEL 72.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	142.8	-54.1	2.5	-0.4	0.0		0.0	0.0	41.5	0.0	6.7	48.1
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	84.0	-49.5	1.3	-0.1	-1.8		0.0	0.2	59.2	-10.8	0.0	48.4
Air Compressor C 1	CNEL	110.0	5	208.4	-57.4	2.7	-13.9	-0.4	-1.18	0.0	3.2	43.1	0.0	6.7	49.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		127.8	-53.1	2.5	-17.1	-1.3		0.0	1.8	33.1	0.0	6.7	39.8
Asphalt Production	CNEL	113.8	1206	178.2	-56.0	2.4	-3.3	-2.0		0.0	0.8	55.8	0.0	6.7	62.5
BFW Pumps P-073A&B	CNEL	95.8		119.5	-52.5	2.5	-15.0	-0.6		0.0	12.6	42.8	0.0	6.7	49.5
Blower F 401	CNEL	113.0		96.1	-50.6	1.2	-13.2	-0.1		0.0	0.0	50.3	0.0	6.7	56.9
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.8	-59.4	2.5	-0.4	-1.3		0.0	0.0	40.0	0.0	6.7	46.6
Brine Transfer P-085	CNEL	96.2		108.3	-51.7	2.5	0.0	-1.1		0.0	0.6	46.5	0.0	6.7	53.2
Burner H301 North	CNEL	96.1	10	234.2	-58.4	2.6	-22.1	-1.3	-0.26	0.0	8.2	27.8	0.0	6.7	34.5
Burner H301 South	CNEL	95.9	10	230.8	-58.3	2.6	-9.6	-1.4	-0.42	0.0	0.5	32.3	0.0	6.7	39.0
Burner H302 North	CNEL	97.0	13	220.1	-57.8	2.5	-22.5	-1.2	-0.05	0.0	8.9	29.8	0.0	6.7	36.4
Burner H302 South	CNEL	97.0	13	217.3	-57.7	2.5	-11.8	-1.2	-0.07	0.0	2.2	33.9	0.0	6.7	40.6
Burner H303 North	CNEL	97.0	13	183.7	-56.3	2.5	-21.1	-1.0		0.0	9.9	34.0	0.0	6.7	40.7
Burner H303 South	CNEL	97.0	13	180.4	-56.1	2.5	-1.8	-1.4		0.0	0.1	43.2	0.0	6.7	49.9
Burner H304 North	CNEL	97.0	13	193.0	-56.7	2.5	-22.3	-1.1		0.0	8.8	31.2	0.0	6.7	37.8
Burner H304 South	CNEL	97.0	13	189.6	-56.6	2.5	-13.1	-0.8		0.0	3.1	35.1	0.0	6.7	41.8
Burner H305 North	CNEL	96.3	11	201.3	-57.1	2.5	-23.0	-1.2		0.0	12.5	33.1	0.0	6.7	39.7
Burner H305 South	CNEL	96.3	11	197.9	-56.9	2.5	-15.9	-0.9		0.0	3.2	31.3	0.0	6.7	38.0
Burner H306 North	CNEL	95.0	8	210.1	-57.4	2.5	-22.4	-1.2		0.0	12.0	31.5	0.0	6.7	38.1
Burner H306 South	CNEL	95.1	8	207.1	-57.3	2.5	-11.6	-1.1		0.0	2.7	33.2	0.0	6.7	39.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.6	-54.0	2.1	-10.7	-0.6	-0.66	4.4	3.1	48.4	0.0	6.7	55.1
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.7	-54.3	2.2	-0.1	-1.2	-0.82	0.0	0.2	46.6	0.0	6.7	53.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.3	-54.6	2.2	-14.9	-0.4	-0.32	-7.8	6.4	37.0	0.0	6.7	43.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.0	-54.0	2.1	-11.0	-0.7	-0.13	0.4	0.0	47.3	0.0	6.7	54.0
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.6	-54.1	2.2	-8.9	-0.5	-0.70	0.2	0.1	41.9	0.0	6.7	48.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.0	-54.5	2.1	-12.5	-0.5		-5.5	7.8	37.3	0.0	6.7	44.0
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.6	-54.3	2.5	-16.8	-0.4		-4.3	0.0	24.6	0.0	6.7	31.3
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.8	-54.1	2.4	0.0	-1.1		4.7	0.0	49.8	0.0	6.7	56.5
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.5	-13.1	-0.5		-6.1	0.0	28.7	0.0	6.7	35.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.3	-54.3	2.4	-7.9	-0.5		4.3	0.0	44.7	0.0	6.7	51.3
Cooling Tower M 512	CNEL	95.7		137.8	-53.8	2.6	0.0	-0.7		0.0	2.6	46.4	0.0	6.7	53.1
Cooling Tower M 513	CNEL	95.7		137.4	-53.8	2.6	0.0	-0.7		0.0	2.4	46.2	0.0	6.7	52.8
Cooling Tower M 514	CNEL	95.7		138.1	-53.8	2.6	0.0	-0.7		0.0	2.6	46.4	0.0	6.7	53.1
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	267.4	-59.5	3.1	-4.2	-2.4		0.0	0.2	50.8	0.0	6.7	57.4
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	267.4	-59.5	2.5	-3.8	-2.4		0.0	0.2	50.7	0.0	6.7	57.4
CT Y-600-CT Y-600 North	CNEL	96.4	51	209.5	-57.4	2.0	-5.2	-1.0		0.0	0.0	37.8	0.0	6.7	44.4
CT Y-600-CT Y-600 South	CNEL	96.4	52	211.6	-57.5	1.7	-7.1	-0.9		0.0	0.1	35.7	0.0	6.7	42.4
Deaerator Skid P-058A&B	CNEL	96.2		127.9	-53.1	2.1	0.0	-1.2		0.0	0.0	44.0	0.0	6.7	50.7
Exhaust Stack	CNEL	100.6		112.2	-52.0	2.0	0.0	-0.2		-0.1	0.0	50.4	0.0	6.7	57.1
F.G. After Cooler XF-083ABC	CNEL	100.2		141.8	-54.0	2.5	-8.6	-0.3		0.0	6.2	46.0	0.0	6.7	52.7
Fan Y-600	CNEL	107.5		210.5	-57.5	1.5	-9.1	-0.5		0.0	0.0	41.9	0.0	6.7	48.6
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	151.0	-54.6	1.7	-4.8	-0.1		0.0	0.1	24.7	0.0	6.7	31.4
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	156.7	-54.9	2.3	-8.1	-0.1		0.0	0.0	20.0	0.0	6.7	26.6
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	155.6	-54.8	2.6	-13.8	-0.9		0.0	0.4	7.6	0.0	6.7	14.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	152.3	-54.6	2.2	-9.6	-0.1		0.0	0.4	22.0	0.0	6.7	28.6
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	149.2	-54.5	2.0	0.0	-0.1		0.0	0.0	22.4	0.0	6.7	29.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	145.1	-54.2	2.1	-4.8	-0.1		0.0	0.1	23.9	0.0	6.7	30.6
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	144.3	-54.2	2.6	-13.2	-0.8		0.0	7.0	15.6	0.0	6.7	22.2
Fin Fan XF 616 - Above	CNEL	96.0	75	239.1	-58.6	1.6	-0.1	-0.6		-12.1	0.0	26.3	0.0	6.7	33.0
Fin Fan XF 616 - Below	CNEL	108.0	75	239.1	-58.6	1.6	-0.1	-0.9		-7.6	0.0	42.6	0.0	6.7	49.2
Fin Fan XF 617 - Above	CNEL	93.0	21	247.2	-58.9	1.6	-0.1	-0.6		-12.1	0.0	23.0	0.0	6.7	29.7
Fin Fan XF 617 - Below	CNEL	104.0	21	247.1	-58.9	1.7	0.0	-0.9		-7.6	0.0	38.3	0.0	6.7	45.0
Heater # 5-Heater	CNEL	91.1	13	267.2	-59.5	2.6	-12.2	-0.5		0.0	0.0	24.4	0.0	6.7	31.1
Heater # 5-Heater	CNEL	91.1	13	262.3	-59.4	2.5	-10.3	-0.5		0.0	0.0	26.5	0.0	6.7	33.1

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	257.3	-59.2	2.5	-6.6	-0.8		0.0	0.0	30.0	0.0	6.7	36.6
Heater H 601	CNEL	89.1	13	250.4	-59.0	2.1	-0.4	-1.4		0.0	0.2	30.7	0.0	6.7	37.3
Hydro Heater H-402	CNEL	98.1		134.1	-53.5	2.5	-2.8	-0.6	-0.04	0.0	0.5	44.1	0.0	6.7	50.8
ID Fan	CNEL	110.3		210.1	-57.4	2.4	-16.3	-0.3		0.0	3.7	42.2	0.0	6.7	48.9
ID Fan 200 HP Motor	CNEL	104.4		208.5	-57.4	2.5	-21.9	-1.2		0.0	4.3	30.6	0.0	6.7	37.3
Incinirator Compressor & Motor	CNEL	92.5		341.5	-61.7	3.1	-3.9	-1.3		0.0	0.1	28.9	0.0	6.7	35.6
Incinirator Fin Fan	CNEL	94.8		340.7	-61.6	3.2	-3.6	-1.2		0.0	0.1	31.6	0.0	6.7	38.3
Lub Oil Cooler XF-061	CNEL	100.5		134.4	-53.6	2.5	-14.1	-0.2		0.0	12.3	47.4	0.0	6.7	54.1
Misc pumps motors	CNEL	100.2	332	221.1	-57.9	2.7	-13.5	-1.2		0.0	5.9	36.3	0.0	6.7	42.9
Motor & Pump P 56A/B	CNEL	93.7		149.9	-54.5	2.6	-4.4	-1.3	-1.10	0.0	0.0	34.9	0.0	6.7	41.6
Motor & Pump P 120/121	CNEL	96.2	2	195.5	-56.8	2.6	-20.1	-0.6	-1.20	0.0	7.6	27.7	0.0	6.7	34.4
Motor & Pump P 211/212	CNEL	93.7		126.8	-53.1	2.5	0.0	-1.3	-0.58	0.0	0.4	41.6	0.0	6.7	48.3
Motor & Pump P 215/214	CNEL	94.6		131.9	-53.4	2.5	0.0	-1.3	-0.69	0.0	0.7	42.4	0.0	6.7	49.1
Motor & Pump P 216	CNEL	98.3		128.5	-53.2	2.4	0.0	-1.3	-0.53	0.0	0.2	45.9	0.0	6.7	52.6
Motor & Pump P 217/218	CNEL	93.7		128.7	-53.2	2.5	0.0	-1.3	-0.62	0.0	0.4	41.4	0.0	6.7	48.1
Motor & Pump P 300	CNEL	97.1	2	199.0	-57.0	2.6	-6.2	-0.8	-1.18	0.0	0.0	34.6	0.0	6.7	41.2
Motor & Pump P 301	CNEL	102.1	2	197.4	-56.9	2.6	-5.2	-0.9	-1.18	0.0	0.0	40.6	0.0	6.7	47.2
Motor & Pump P 302	CNEL	97.1	2	200.8	-57.0	2.6	-7.5	-0.8	-1.18	0.0	0.0	33.2	0.0	6.7	39.9
Motor & Pump P 303	CNEL	97.1	2	202.3	-57.1	2.6	-7.7	-0.8	-1.18	0.0	0.1	32.9	0.0	6.7	39.6
Motor & Pump P 305	CNEL	97.5	2	203.8	-57.2	2.6	-8.4	-0.8	-1.19	0.0	0.1	32.6	0.0	6.7	39.3
Motor & Pump P 306	CNEL	112.6	4	212.8	-57.6	2.6	-9.0	-0.7	-1.28	0.0	0.1	46.8	0.0	6.7	53.4
Motor & Pump P 307	CNEL	102.1	2	192.5	-56.7	2.6	-2.7	-0.9	-1.17	0.0	0.0	43.3	0.0	6.7	50.0
Motor & Pump P 309	CNEL	97.5	2	205.3	-57.2	2.6	-9.0	-0.8	-1.19	0.0	0.0	32.0	0.0	6.7	38.7
Motor & Pump P 312	CNEL	101.5	2	170.7	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.4	46.8	0.0	6.7	53.4
Motor & Pump P 313	CNEL	101.5	2	168.9	-55.5	2.6	0.0	-0.9	-1.16	0.0	0.3	46.8	0.0	6.7	53.5
Motor & Pump P 315	CNEL	102.9	2	162.6	-55.2	2.6	0.0	-0.9	-1.15	0.0	0.4	48.6	0.0	6.7	55.3
Motor & Pump P 316	CNEL	102.9	2	160.6	-55.1	2.6	-0.4	-0.8	-1.03	0.0	0.4	48.5	0.0	6.7	55.2
Motor & Pump P 317	CNEL	102.9	2	158.6	-55.0	2.6	-0.7	-0.8	-0.95	0.0	0.5	48.5	0.0	6.7	55.2
Motor & Pump P 318	CNEL	100.2	1	164.5	-55.3	2.6	0.0	-0.9	-1.16	0.0	0.3	45.7	0.0	6.7	52.4
Motor & Pump P 319	CNEL	100.2	1	165.9	-55.4	2.6	0.0	-0.9	-1.16	0.0	0.2	45.5	0.0	6.7	52.2
Motor & Pump P 327	CNEL	111.2	3	220.8	-57.9	2.8	-19.5	-1.2	-0.43	0.0	0.6	35.7	0.0	6.7	42.3
Motor & Pump P 328	CNEL	109.9	5	207.0	-57.3	2.6	-7.1	-0.8	-1.18	0.0	0.0	46.1	0.0	6.7	52.8
Motor & Pump P 329	CNEL	110.2	5	209.9	-57.4	2.6	-8.9	-0.8	-1.16	0.0	0.2	44.7	0.0	6.7	51.3
Motor & Pump P 451	CNEL	93.7		127.2	-53.1	2.5	-10.0	-0.7		0.0	2.7	35.2	0.0	6.7	41.9
Motor & Pump P 453	CNEL	93.7		115.8	-52.3	2.5	0.0	-1.2		0.0	0.0	42.7	0.0	6.7	49.4
Motor & Pump P 454	CNEL	93.7		127.6	-53.1	2.5	-4.6	-1.0	-0.06	0.0	1.1	38.5	0.0	6.7	45.2
Motor & Pump P 457	CNEL	93.7		114.2	-52.1	2.5	0.0	-1.2		0.0	0.0	42.8	0.0	6.7	49.5
Motor & Pump P 458	CNEL	93.7		127.3	-53.1	2.5	-7.6	-0.7		0.0	0.0	34.7	0.0	6.7	41.4
Motor & Pump P 459	CNEL	93.7		128.6	-53.2	2.5	-4.5	-1.0	-0.08	0.0	1.1	38.6	0.0	6.7	45.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.3	-54.9	2.6	-13.1	-0.9		0.0	0.0	29.9	0.0	6.7	36.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		158.9	-55.0	2.6	-11.7	-0.9		0.0	0.0	31.2	0.0	6.7	37.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.3	-56.7	2.7	-2.8	-1.5	-0.74	0.0	0.2	36.5	0.0	6.7	43.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.4	-56.8	2.7	-2.8	-1.5	-0.74	0.0	0.2	36.4	0.0	6.7	43.1
Motor & Pump P 1601 A	CNEL	96.3	2	163.9	-55.3	2.7	-11.1	-0.8		0.0	0.0	31.8	0.0	6.7	38.5
Motor & Pump P 1601 B	CNEL	96.3	2	164.3	-55.3	2.7	-15.6	-0.8		0.0	0.0	27.3	0.0	6.7	33.9
Motor & Pump P 1602 A	CNEL	96.3	2	164.5	-55.3	2.7	-19.0	-0.8		0.0	0.0	23.8	0.0	6.7	30.5
Motor & Pump P 1602 B	CNEL	96.5	2	165.0	-55.3	2.7	-19.6	-0.8		0.0	0.0	23.4	0.0	6.7	30.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.3	-55.0	2.7	-8.6	-0.9	-0.08	0.0	0.0	34.6	0.0	6.7	41.2
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.1	-55.3	2.7	-4.4	-1.3	-0.18	0.0	0.0	38.1	0.0	6.7	44.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.5	-55.4	2.7	-3.0	-1.4	-0.23	0.0	0.0	39.2	0.0	6.7	45.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.5	-55.1	2.6	-9.2	-1.0		0.0	0.0	34.0	0.0	6.7	40.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.2	-55.2	2.7	-7.9	-1.1		0.0	0.0	35.1	0.0	6.7	41.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.8	-55.7	2.7	-13.2	-0.9	-0.29	0.0	0.9	29.8	0.0	6.7	36.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.4	-55.7	2.7	-9.3	-0.9	-0.36	0.0	0.5	33.3	0.0	6.7	39.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.6	-55.7	2.7	0.0	-1.6	-0.33	0.0	0.2	41.5	0.0	6.7	48.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.9	-55.7	2.7	-6.6	-1.1	-0.35	0.0	0.5	35.7	0.0	6.7	42.4
P602 100 HP	CNEL	94.1		235.2	-58.4	2.4	-14.9	-0.6		0.0	0.0	22.5	0.0	6.7	29.2
P603 60 HP	CNEL	95.0		229.7	-58.2	2.5	-16.3	-1.0		0.0	0.0	22.0	0.0	6.7	28.7
P605 40 HP	CNEL	95.0		231.1	-58.3	2.5	-17.0	-1.0		0.0	0.0	21.3	0.0	6.7	27.9
P607 15 HP	CNEL	90.5		240.7	-58.6	2.7	-15.3	-0.7		0.0	2.6	21.1	0.0	6.7	27.7
P608 15 HP	CNEL	90.5		243.5	-58.7	2.7	-14.9	-0.7		0.0	0.0	18.9	0.0	6.7	25.5
P611 15 HP	CNEL	90.5		237.9	-58.5	2.6	-15.5	-0.7		0.0	0.0	18.3	0.0	6.7	25.0
P614/615 20 HP	CNEL	93.0		232.4	-58.3	2.2	-15.1	-0.7		0.0	2.3	23.3	0.0	6.7	30.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.2	-49.9	0.8	-0.2	-0.3		0.0	0.3	85.4	-38.6	0.0	46.8
Scanner Blower C-084A/B	CNEL	95.5		128.9	-53.2	2.6	-5.5	-0.5		0.0	2.2	41.1	0.0	6.7	47.8
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	116.1	-52.3	2.3	-8.0	-0.1		0.0	1.6	15.1	0.0	6.7	21.8
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	113.9	-52.1	2.4	-11.1	-0.1		0.0	3.5	12.4	0.0	6.7	19.1
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	114.5	-52.2	1.8	-4.6	-0.1		0.0	1.3	15.7	0.0	6.7	22.4
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	113.9	-52.1	2.3	-1.2	-0.1		0.0	0.0	20.4	0.0	6.7	27.1
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	112.6	-52.0	2.3	-2.0	-0.1		0.0	0.0	19.9	0.0	6.7	26.6
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	131.0	-53.3	2.3	-12.0	-0.2		0.0	1.4	18.3	0.0	6.7	25.0
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	132.2	-53.4	2.3	-12.9	-0.1		0.0	0.8	15.9	0.0	6.7	22.6
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	128.9	-53.2	2.3	-13.5	-0.1		0.0	8.7	34.3	0.0	6.7	41.0
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	132.6	-53.4	2.3	-12.7	-0.1		0.0	6.1	23.9	0.0	6.7	30.6
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	128.2	-53.1	1.9	-2.9	-0.2		0.0	0.8	31.8	0.0	6.7	38.5
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	127.1	-53.1	2.3	-1.6	-0.2		0.0	0.1	37.6	0.0	6.7	44.3
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	131.7	-53.4	2.3	-10.4	-0.2		0.0	1.1	20.9	0.0	6.7	27.6
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	142.3	-54.1	2.6	-18.0	-0.5		0.0	1.4	30.6	0.0	6.7	37.3
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	138.3	-53.8	2.5	-18.0	-0.4		0.0	13.5	48.5	0.0	6.7	55.2
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	138.1	-53.8	2.3	-4.5	-1.0		0.0	1.8	46.1	0.0	6.7	52.8
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	136.4	-53.7	2.5	-6.3	-0.7		0.0	0.9	47.4	0.0	6.7	54.1
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	133.3	-53.5	2.5	-16.8	-0.6		0.0	14.4	39.5	0.0	6.7	46.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	131.9	-53.4	2.5	-5.5	-0.6		0.0	0.2	36.8	0.0	6.7	43.5
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	120.1	-52.6	1.9	-3.6	-0.2		0.0	0.4	24.0	0.0	6.7	30.6
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	125.2	-52.9	2.3	-11.3	-0.1		0.0	6.0	15.8	0.0	6.7	22.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	122.1	-52.7	2.3	-10.5	-0.1		0.0	4.2	22.1	0.0	6.7	28.7
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	118.2	-52.4	2.2	-8.0	-0.1		0.0	0.5	15.6	0.0	6.7	22.2
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	122.6	-52.8	2.2	-5.6	-0.1		0.0	0.1	17.6	0.0	6.7	24.3
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	118.4	-52.5	2.3	-1.0	-0.2		0.0	0.0	27.6	0.0	6.7	34.3
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	115.2	-52.2	2.3	0.0	-0.2		0.0	0.0	23.3	0.0	6.7	29.9
Tank Farm Pump 1	CNEL	99.0	3	324.7	-61.2	3.8	-5.2	-1.9		0.0	0.0	34.5	0.0	6.7	41.1
Tank Farm Pump 2	CNEL	99.0	3	344.6	-61.7	3.9	-4.4	-2.0		0.0	0.0	34.7	0.0	6.7	41.3
Tank Farm Pump 3	CNEL	99.0	3	350.1	-61.9	3.9	-4.0	-2.1		0.0	0.0	34.9	0.0	6.7	41.6
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.6	-52.7	1.2	0.0	-1.8		0.0	0.2	59.3	-16.8	0.0	42.5
Vaporizer Blower 1	CNEL	88.7		130.1	-53.3	2.6	-20.8	-0.4		0.0	20.0	36.7	0.0	6.7	43.4
Vaporizer Blower 2	CNEL	88.7		130.3	-53.3	2.6	-20.0	-0.4		0.0	19.2	36.7	0.0	6.7	43.4
Vaporizer Inlet Silencer	CNEL	73.7		131.4	-53.4	2.4	-12.0	-0.1		0.0	8.9	19.5	0.0	6.7	26.1
Vaporizer Motor 1	CNEL	83.6		129.7	-53.3	2.6	-21.7	-0.6		0.0	21.1	31.7	0.0	6.7	38.3
Vaporizer Motor 2	CNEL	83.6		129.9	-53.3	2.6	-21.0	-0.6		0.0	20.3	31.7	0.0	6.7	38.4
Water Treatment Pumps P-056A&B	CNEL	93.0		111.8	-52.0	2.5	0.0	-1.1		0.0	0.0	42.5	0.0	6.7	49.1
XF-1502 Splitter Area 1	CNEL	104.5		168.4	-55.5	2.4	0.0	-1.2	-0.01	-4.3	0.0	45.8	0.0	6.7	52.5
XF-1502 Splitter Area 2	CNEL	104.5		164.7	-55.3	2.3	0.0	-1.2		-4.3	0.0	46.0	0.0	6.7	52.7
XF-1504 Splitter Area 1	CNEL	104.5		169.3	-55.6	2.4	-4.9	-0.8	0.00	-3.8	0.0	41.7	0.0	6.7	48.4
XF-1504 Splitter Area 2	CNEL	104.5		165.6	-55.4	2.3	-5.3	-0.9		-3.8	0.0	41.5	0.0	6.7	48.2
XF 304, XF 321	CNEL	110.5	56	197.2	-56.9	2.2	-0.5	-0.8	-0.87	-2.9	0.1	50.8	0.0	6.7	57.5
XF 313, XF 314	CNEL	113.0	18	227.4	-58.1	2.3	-3.5	-0.9	-1.39	-3.8	0.0	47.6	0.0	6.7	54.3
XF 335-1, XF 335-2	CNEL	113.4	54	209.2	-57.4	2.2	-3.8	-0.9	-1.05	-3.0	0.4	49.9	0.0	6.7	56.6
XF 503	CNEL	113.0	21	144.2	-54.2	2.1	-0.1	-2.2	-1.03	-4.1	0.0	53.4	0.0	6.7	60.1
XF - 1601	CNEL	96.6		163.5	-55.3	2.3	-0.1	-0.6		-2.7	0.0	40.3	0.0	6.7	46.9
XF - 1602	CNEL	96.6		165.4	-55.4	2.3	0.0	-0.6		-2.6	0.0	40.4	0.0	6.7	47.1
XF Module 1510	CNEL	108.3		159.9	-55.1	2.3	-0.1	-1.2	-0.10	-4.4	0.0	49.8	0.0	6.7	56.4
XF Module 1519	CNEL	109.0		165.2	-55.4	2.3	-0.1	-1.2	-0.21	-4.4	0.0	50.0	0.0	6.7	56.7
xxxx xxxx xxxx xxxx	CNEL		606								1.8				24.5
xxxx xxxx xxxx xxxx	CNEL		606								2.0				24.7
xxxx xxxx xxxx xxxx	CNEL		917								1.9				38.0
xxxx xxxx xxxx xxxx	CNEL		917								1.2				37.3
xxxx xxxx xxxx xxxx	CNEL		608								1.4				36.7
xxxx xxxx xxxx xxxx	CNEL		608								1.5				36.6
xxxx xxxx xxxx xxxx	CNEL		1172								2.6				43.0
xxxx xxxx xxxx xxxx	CNEL		520								2.5				24.7
xxxx xxxx xxxx xxxx	CNEL		572								2.1				40.0

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	Ls dB(A)	dLw dB	ZR dB	Lr dB(A)
Receiver SS-2 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 65.9 dB(A)			Ld 7-19 dB(A)			Leq,N 65.7 dB(A)		Le 19-22 dB(A)		CNEL 72.4 dB(A)		Lmax day hr dB(A)	Ld 7-1
2.8-Open Intake	CNEL	90.5	8	142.8	-54.1	2.6	-0.4	0.0		0.0	0.0	41.6	0.0	6.7	48.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	84.3	-49.5	1.3	0.0	-1.8		0.0	0.2	59.2	-10.8	0.0	48.4
Air Compressor C 1	CNEL	110.0	5	208.5	-57.4	2.7	-10.2	-0.4	-1.18	0.0	2.6	46.1	0.0	6.7	52.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		127.9	-53.1	2.5	-16.9	-1.2		0.0	2.0	33.5	0.0	6.7	40.2
Asphalt Production	CNEL	113.8	1206	178.3	-56.0	2.5	-3.0	-2.3		0.0	0.1	55.0	0.0	6.7	61.7
BFW Pumps P-073A&B	CNEL	95.8		119.7	-52.6	2.5	-14.8	-0.6		0.0	12.4	42.8	0.0	6.7	49.5
Blower F 401	CNEL	113.0		96.3	-50.7	1.3	-13.0	-0.1		0.0	0.1	50.6	0.0	6.7	57.3
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.9	-59.5	2.4	0.0	-1.2		0.0	0.0	40.3	0.0	6.7	47.0
Brine Transfer P-085	CNEL	96.2		108.5	-51.7	2.5	0.0	-1.1		0.0	0.6	46.6	0.0	6.7	53.2
Burner H301 North	CNEL	96.1	10	234.3	-58.4	2.7	-22.1	-1.3	-0.08	0.0	7.7	27.6	0.0	6.7	34.3
Burner H301 South	CNEL	95.9	10	230.9	-58.3	2.7	-8.8	-1.5	-0.41	0.0	0.5	33.2	0.0	6.7	39.8
Burner H302 North	CNEL	97.0	13	220.2	-57.8	2.6	-21.1	-1.3	-0.07	0.0	7.8	30.1	0.0	6.7	36.8
Burner H302 South	CNEL	97.0	13	217.4	-57.7	2.6	-11.0	-1.4	-0.07	0.0	2.4	34.7	0.0	6.7	41.4
Burner H303 North	CNEL	97.0	13	183.8	-56.3	2.5	-21.1	-1.0		0.0	10.6	34.8	0.0	6.7	41.4
Burner H303 South	CNEL	97.0	13	180.5	-56.1	2.5	-1.4	-1.6		0.0	0.1	43.5	0.0	6.7	50.2
Burner H304 North	CNEL	97.0	13	193.1	-56.7	2.6	-22.3	-1.1		0.0	9.1	31.5	0.0	6.7	38.2
Burner H304 South	CNEL	97.0	13	189.7	-56.6	2.6	-12.5	-0.9		0.0	3.1	35.8	0.0	6.7	42.5
Burner H305 North	CNEL	96.3	11	201.3	-57.1	2.6	-23.0	-1.2		0.0	13.0	33.6	0.0	6.7	40.3
Burner H305 South	CNEL	96.3	11	198.0	-56.9	2.6	-15.2	-1.0		0.0	3.0	31.7	0.0	6.7	38.4
Burner H306 North	CNEL	95.0	8	210.1	-57.4	2.6	-22.4	-1.2		0.0	12.6	32.2	0.0	6.7	38.8
Burner H306 South	CNEL	95.1	8	207.2	-57.3	2.6	-10.7	-1.3		0.0	2.6	33.9	0.0	6.7	40.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.7	-54.0	2.2	-10.3	-0.6	-0.66	4.4	3.2	48.9	0.0	6.7	55.6
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.8	-54.3	2.3	-0.1	-1.2	-0.82	0.0	0.2	46.7	0.0	6.7	53.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.4	-54.6	2.2	-14.8	-0.4	-0.32	-7.8	7.3	38.1	0.0	6.7	44.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.1	-54.0	2.1	-10.9	-0.7	-0.13	0.4	0.0	47.5	0.0	6.7	54.2
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.7	-54.1	2.2	-8.6	-0.6	-0.69	0.2	0.1	42.2	0.0	6.7	48.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.1	-54.5	2.2	-12.4	-0.4		-5.5	7.7	37.4	0.0	6.7	44.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.7	-54.3	2.5	-16.5	-0.4		-4.3	0.0	25.0	0.0	6.7	31.6
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.9	-54.1	2.4	0.0	-1.0		4.7	0.0	49.8	0.0	6.7	56.5
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.5	-11.1	-0.5		-6.1	0.0	30.7	0.0	6.7	37.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.4	-54.3	2.4	-6.5	-0.6		4.3	0.0	46.0	0.0	6.7	52.7
Cooling Tower M 512	CNEL	95.7		138.0	-53.8	2.6	0.0	-0.7		0.0	2.4	46.1	0.0	6.7	52.8
Cooling Tower M 513	CNEL	95.7		137.5	-53.8	2.6	0.0	-0.7		0.0	2.4	46.2	0.0	6.7	52.8
Cooling Tower M 514	CNEL	95.7		138.2	-53.8	2.6	0.0	-0.7		0.0	2.4	46.1	0.0	6.7	52.8
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	267.4	-59.5	2.6	-3.8	-2.4		0.0	0.1	50.7	0.0	6.7	57.3
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	267.4	-59.5	2.6	-3.6	-2.5		0.0	0.0	50.7	0.0	6.7	57.3
CT Y-600-CT Y-600 North	CNEL	96.4	51	209.6	-57.4	2.1	-4.8	-1.0		0.0	0.0	38.3	0.0	6.7	45.0
CT Y-600-CT Y-600 South	CNEL	96.4	52	211.7	-57.5	2.0	-6.9	-0.9		0.0	0.3	36.4	0.0	6.7	43.1
Deaerator Skid P-058A&B	CNEL	96.2		128.0	-53.1	2.1	0.0	-1.2		0.0	0.0	44.0	0.0	6.7	50.7
Exhaust Stack	CNEL	100.6		112.0	-52.0	2.1	0.0	-0.2		0.0	0.0	50.5	0.0	6.7	57.2
F.G. After Cooler XF-083ABC	CNEL	100.2		141.9	-54.0	2.6	-8.1	-0.3		0.0	6.0	46.3	0.0	6.7	52.9
Fan Y-600	CNEL	107.5		210.5	-57.5	1.7	-8.8	-0.5		0.0	0.0	42.5	0.0	6.7	49.1
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	151.1	-54.6	1.9	-4.7	-0.1		0.0	0.0	24.9	0.0	6.7	31.6
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	156.8	-54.9	2.5	-8.0	-0.1		0.0	0.0	20.2	0.0	6.7	26.9
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	155.7	-54.8	2.6	-13.8	-0.9		0.0	0.0	7.2	0.0	6.7	13.9
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	152.4	-54.7	2.5	-9.2	-0.1		0.0	0.4	22.7	0.0	6.7	29.4
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	149.3	-54.5	2.5	0.0	-0.1		0.0	0.0	22.9	0.0	6.7	29.5
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	145.2	-54.2	2.4	-5.0	-0.1		0.0	0.1	24.0	0.0	6.7	30.7
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	144.4	-54.2	2.6	-13.1	-0.8		0.0	7.1	15.8	0.0	6.7	22.5
Fin Fan XF 616 - Above	CNEL	96.0	75	239.1	-58.6	1.9	0.0	-0.6		-11.3	0.0	27.5	0.0	6.7	34.1
Fin Fan XF 616 - Below	CNEL	108.0	75	239.0	-58.6	1.9	0.0	-0.8		-8.1	0.0	42.3	0.0	6.7	49.0
Fin Fan XF 617 - Above	CNEL	93.0	21	247.1	-58.8	2.0	0.0	-0.6		-11.4	0.0	24.1	0.0	6.7	30.8
Fin Fan XF 617 - Below	CNEL	104.0	21	247.1	-58.8	2.0	0.0	-0.9		-8.1	0.0	38.1	0.0	6.7	44.8
Heater # 5-Heater	CNEL	91.1	13	267.3	-59.5	2.4	-12.0	-0.5		0.0	0.0	24.5	0.0	6.7	31.1
Heater # 5-Heater	CNEL	91.1	13	262.4	-59.4	2.4	-10.1	-0.5		0.0	0.0	26.5	0.0	6.7	33.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	257.4	-59.2	2.4	-6.5	-0.8		0.0	0.0	30.0	0.0	6.7	36.6
Heater H 601	CNEL	89.1	13	250.5	-59.0	2.4	-0.2	-1.3		0.0	0.2	31.3	0.0	6.7	37.9
Hydro Heater H-402	CNEL	98.1		134.2	-53.5	2.6	-2.7	-0.6	-0.04	0.0	0.6	44.3	0.0	6.7	51.0
ID Fan	CNEL	110.3		210.2	-57.4	2.6	-16.0	-0.3		0.0	4.0	43.0	0.0	6.7	49.7
ID Fan 200 HP Motor	CNEL	104.4		208.6	-57.4	2.6	-21.8	-1.2		0.0	4.4	30.9	0.0	6.7	37.6
Incinirator Compressor & Motor	CNEL	92.5		341.6	-61.7	2.9	-3.8	-1.3		0.0	0.0	28.7	0.0	6.7	35.3
Incinirator Fin Fan	CNEL	94.8		340.7	-61.6	2.9	-3.5	-1.2		0.0	0.0	31.3	0.0	6.7	37.9
Lub Oil Cooler XF-061	CNEL	100.5		134.5	-53.6	2.6	-13.9	-0.2		0.0	12.0	47.5	0.0	6.7	54.1
Misc pumps motors	CNEL	100.2	332	221.1	-57.9	2.8	-11.9	-1.3		0.0	5.1	37.0	0.0	6.7	43.6
Motor & Pump P 56A/B	CNEL	93.7		150.0	-54.5	2.6	-4.8	-1.4	-1.09	0.0	0.0	34.5	0.0	6.7	41.1
Motor & Pump P 120/121	CNEL	96.2	2	195.6	-56.8	2.7	-16.1	-0.7	-1.19	0.0	7.3	31.4	0.0	6.7	38.1
Motor & Pump P 211/212	CNEL	93.7		126.9	-53.1	2.5	0.0	-1.3	-0.58	0.0	0.4	41.6	0.0	6.7	48.3
Motor & Pump P 215/214	CNEL	94.6		132.0	-53.4	2.5	0.0	-1.3	-0.69	0.0	0.7	42.5	0.0	6.7	49.1
Motor & Pump P 216	CNEL	98.3		128.6	-53.2	2.4	0.0	-1.3	-0.53	0.0	0.2	45.9	0.0	6.7	52.6
Motor & Pump P 217/218	CNEL	93.7		128.9	-53.2	2.5	0.0	-1.3	-0.62	0.0	0.4	41.4	0.0	6.7	48.1
Motor & Pump P 300	CNEL	97.1	2	199.1	-57.0	2.7	-4.9	-0.9	-1.17	0.0	0.0	35.8	0.0	6.7	42.5
Motor & Pump P 301	CNEL	102.1	2	197.5	-56.9	2.7	-3.6	-0.9	-1.17	0.0	0.0	42.2	0.0	6.7	48.8
Motor & Pump P 302	CNEL	97.1	2	200.9	-57.1	2.7	-7.0	-0.8	-1.18	0.0	0.0	33.7	0.0	6.7	40.4
Motor & Pump P 303	CNEL	97.1	2	202.4	-57.1	2.7	-7.2	-0.8	-1.18	0.0	0.1	33.5	0.0	6.7	40.2
Motor & Pump P 305	CNEL	97.5	2	203.9	-57.2	2.7	-7.8	-0.8	-1.19	0.0	0.0	33.3	0.0	6.7	39.9
Motor & Pump P 306	CNEL	112.6	4	212.9	-57.6	2.7	-8.0	-0.7	-1.28	0.0	0.2	47.9	0.0	6.7	54.6
Motor & Pump P 307	CNEL	102.1	2	192.6	-56.7	2.7	-1.4	-0.9	-1.17	0.0	0.0	44.6	0.0	6.7	51.3
Motor & Pump P 309	CNEL	97.5	2	205.4	-57.2	2.7	-8.2	-0.7	-1.19	0.0	0.0	32.8	0.0	6.7	39.5
Motor & Pump P 312	CNEL	101.5	2	170.8	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.6	47.0	0.0	6.7	53.7
Motor & Pump P 313	CNEL	101.5	2	169.1	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.6	47.1	0.0	6.7	53.7
Motor & Pump P 315	CNEL	102.9	2	162.7	-55.2	2.6	0.0	-0.9	-1.15	0.0	0.6	48.8	0.0	6.7	55.5
Motor & Pump P 316	CNEL	102.9	2	160.7	-55.1	2.6	-0.4	-0.8	-1.03	0.0	0.6	48.7	0.0	6.7	55.3
Motor & Pump P 317	CNEL	102.9	2	158.7	-55.0	2.6	-0.7	-0.8	-0.95	0.0	0.6	48.6	0.0	6.7	55.3
Motor & Pump P 318	CNEL	100.2	1	164.6	-55.3	2.6	0.0	-0.9	-1.16	0.0	0.5	45.9	0.0	6.7	52.6
Motor & Pump P 319	CNEL	100.2	1	166.1	-55.4	2.6	0.0	-0.9	-1.16	0.0	0.4	45.7	0.0	6.7	52.4
Motor & Pump P 327	CNEL	111.2	3	220.9	-57.9	2.7	-19.4	-1.2		0.0	0.5	35.9	0.0	6.7	42.6
Motor & Pump P 328	CNEL	109.9	5	207.1	-57.3	2.7	-6.4	-0.9	-1.18	0.0	0.1	46.9	0.0	6.7	53.6
Motor & Pump P 329	CNEL	110.2	5	210.0	-57.4	2.7	-8.0	-0.8	-1.16	0.0	0.3	45.7	0.0	6.7	52.4
Motor & Pump P 451	CNEL	93.7		127.4	-53.1	2.5	-9.7	-0.7		0.0	2.7	35.5	0.0	6.7	42.2
Motor & Pump P 453	CNEL	93.7		115.9	-52.3	2.5	0.0	-1.2		0.0	0.0	42.7	0.0	6.7	49.4
Motor & Pump P 454	CNEL	93.7		127.7	-53.1	2.5	-3.9	-1.1	-0.06	0.0	0.9	38.9	0.0	6.7	45.6
Motor & Pump P 457	CNEL	93.7		114.4	-52.2	2.5	0.0	-1.2		0.0	0.0	42.8	0.0	6.7	49.5
Motor & Pump P 458	CNEL	93.7		127.4	-53.1	2.5	-7.5	-0.7		0.0	0.0	34.9	0.0	6.7	41.6
Motor & Pump P 459	CNEL	93.7		128.7	-53.2	2.5	-3.9	-1.1	-0.08	0.0	0.9	38.8	0.0	6.7	45.5
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.4	-54.9	2.6	-13.1	-0.9		0.0	0.0	29.9	0.0	6.7	36.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		159.0	-55.0	2.7	-11.7	-0.9		0.0	0.0	31.3	0.0	6.7	37.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.4	-56.7	2.7	-4.2	-1.9	-0.72	0.0	0.3	34.8	0.0	6.7	41.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.5	-56.8	2.7	-4.2	-2.0	-0.73	0.0	0.3	34.8	0.0	6.7	41.4
Motor & Pump P 1601 A	CNEL	96.3	2	164.0	-55.3	2.7	-9.5	-0.8		0.0	0.0	33.4	0.0	6.7	40.1
Motor & Pump P 1601 B	CNEL	96.3	2	164.4	-55.3	2.7	-15.5	-0.8		0.0	0.0	27.4	0.0	6.7	34.0
Motor & Pump P 1602 A	CNEL	96.3	2	164.6	-55.3	2.7	-18.9	-0.8		0.0	0.0	24.0	0.0	6.7	30.7
Motor & Pump P 1602 B	CNEL	96.5	2	165.1	-55.3	2.7	-19.4	-0.8		0.0	0.0	23.7	0.0	6.7	30.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.4	-55.0	2.7	-8.5	-0.9	-0.08	0.0	0.0	34.7	0.0	6.7	41.3
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.2	-55.3	2.7	-4.3	-1.3	-0.18	0.0	0.0	38.2	0.0	6.7	44.9
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.6	-55.4	2.7	-3.3	-1.4	-0.23	0.0	0.0	38.9	0.0	6.7	45.6
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.6	-55.1	2.7	-9.0	-1.1		0.0	0.0	34.2	0.0	6.7	40.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.4	-55.2	2.7	-7.7	-1.2		0.0	0.0	35.3	0.0	6.7	42.0
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.9	-55.8	2.7	-12.8	-0.9	-0.30	0.0	1.8	31.0	0.0	6.7	37.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.5	-55.7	2.7	-8.7	-0.9	-0.36	0.0	1.0	34.3	0.0	6.7	41.0
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.7	-55.7	2.7	0.0	-1.6	-0.33	0.0	0.3	41.7	0.0	6.7	48.3
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	172.0	-55.7	2.7	-6.3	-1.0	-0.35	0.0	1.0	36.5	0.0	6.7	43.2
P602 100 HP	CNEL	94.1		235.3	-58.4	2.4	-14.7	-0.6		0.0	0.0	22.7	0.0	6.7	29.4
P603 60 HP	CNEL	95.0		229.8	-58.2	2.4	-14.8	-1.0		0.0	0.0	23.4	0.0	6.7	30.0
P605 40 HP	CNEL	95.0		231.2	-58.3	2.4	-16.9	-1.0		0.0	0.0	21.3	0.0	6.7	28.0
P607 15 HP	CNEL	90.5		240.8	-58.6	2.4	-15.0	-0.7		0.0	0.0	18.6	0.0	6.7	25.2
P608 15 HP	CNEL	90.5		243.5	-58.7	2.4	-14.7	-0.7		0.0	0.0	18.8	0.0	6.7	25.5
P611 15 HP	CNEL	90.5		238.0	-58.5	2.4	-15.3	-0.7		0.0	0.0	18.4	0.0	6.7	25.1
P614/615 20 HP	CNEL	93.0		232.5	-58.3	2.4	-14.8	-0.7		0.0	0.0	21.7	0.0	6.7	28.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.5	-49.9	0.9	-0.1	-0.3		0.0	0.3	85.5	-38.6	0.0	46.9
Scanner Blower C-084A/B	CNEL	95.5		129.0	-53.2	2.6	-4.7	-0.5		0.0	2.4	42.1	0.0	6.7	48.7
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	116.2	-52.3	2.4	-7.8	-0.1		0.0	1.8	15.6	0.0	6.7	22.2
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	114.1	-52.1	2.6	-8.2	-0.1		0.0	2.1	14.0	0.0	6.7	20.7
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	114.6	-52.2	1.9	-4.5	-0.1		0.0	1.3	15.9	0.0	6.7	22.6
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	114.0	-52.1	2.4	-1.5	-0.1		0.0	0.0	20.2	0.0	6.7	26.9
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	112.7	-52.0	2.4	-2.5	-0.2		0.0	0.0	19.6	0.0	6.7	26.2
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	131.1	-53.3	2.4	-11.0	-0.2		0.0	1.2	19.3	0.0	6.7	25.9
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	132.4	-53.4	2.5	-12.6	-0.1		0.0	0.7	16.2	0.0	6.7	22.9
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	129.0	-53.2	2.4	-12.3	-0.1		0.0	7.6	34.5	0.0	6.7	41.1
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	132.7	-53.4	2.4	-12.3	-0.1		0.0	5.7	24.1	0.0	6.7	30.7
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	128.3	-53.2	2.0	-4.7	-0.3		0.0	1.1	30.4	0.0	6.7	37.1
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	127.2	-53.1	2.4	-1.6	-0.2		0.0	0.1	37.7	0.0	6.7	44.4
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	131.8	-53.4	2.4	-9.2	-0.2		0.0	1.1	22.2	0.0	6.7	28.8
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	142.4	-54.1	2.6	-14.8	-0.6		0.0	0.7	33.1	0.0	6.7	39.8
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	138.4	-53.8	2.6	-15.4	-0.5		0.0	11.1	48.7	0.0	6.7	55.3
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	138.2	-53.8	2.3	-5.0	-1.1		0.0	2.0	45.8	0.0	6.7	52.4
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	136.5	-53.7	2.5	-5.6	-0.8		0.0	1.0	48.2	0.0	6.7	54.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	133.5	-53.5	2.5	-16.6	-0.6		0.0	14.3	39.5	0.0	6.7	46.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	132.1	-53.4	2.5	-4.9	-0.7		0.0	0.2	37.4	0.0	6.7	44.0
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	120.2	-52.6	2.0	-4.7	-0.2		0.0	0.5	23.1	0.0	6.7	29.8
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	125.4	-53.0	2.4	-11.1	-0.1		0.0	5.7	15.9	0.0	6.7	22.6
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	122.2	-52.7	2.4	-10.2	-0.1		0.0	3.9	22.2	0.0	6.7	28.9
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	118.3	-52.5	2.3	-7.9	-0.1		0.0	0.6	15.8	0.0	6.7	22.5
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	122.8	-52.8	2.3	-5.2	-0.1		0.0	0.1	18.1	0.0	6.7	24.8
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	118.6	-52.5	2.4	-1.0	-0.2		0.0	0.0	27.8	0.0	6.7	34.4
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	115.4	-52.2	2.4	0.0	-0.2		0.0	0.0	23.4	0.0	6.7	30.0
Tank Farm Pump 1	CNEL	99.0	3	324.8	-61.2	3.1	-3.3	-2.1		0.0	0.0	35.5	0.0	6.7	42.2
Tank Farm Pump 2	CNEL	99.0	3	344.6	-61.7	3.3	-3.7	-2.2		0.0	0.0	34.6	0.0	6.7	41.3
Tank Farm Pump 3	CNEL	99.0	3	350.1	-61.9	3.3	-3.5	-2.2		0.0	0.0	34.7	0.0	6.7	41.4
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.9	-52.7	1.3	0.0	-1.8		0.0	0.1	59.2	-16.8	0.0	42.4
Vaporizer Blower 1	CNEL	88.7		130.3	-53.3	2.6	-17.5	-0.5		0.0	16.8	36.7	0.0	6.7	43.4
Vaporizer Blower 2	CNEL	88.7		130.5	-53.3	2.6	-16.7	-0.5		0.0	16.0	36.8	0.0	6.7	43.5
Vaporizer Inlet Silencer	CNEL	73.7		131.6	-53.4	2.5	-9.4	-0.2		0.0	6.7	20.0	0.0	6.7	26.7
Vaporizer Motor 1	CNEL	83.6		129.9	-53.3	2.6	-18.2	-0.7		0.0	17.7	31.7	0.0	6.7	38.4
Vaporizer Motor 2	CNEL	83.6		130.1	-53.3	2.6	-17.5	-0.6		0.0	16.9	31.7	0.0	6.7	38.4
Water Treatment Pumps P-056A&B	CNEL	93.0		111.9	-52.0	2.5	0.0	-1.1		0.0	0.0	42.5	0.0	6.7	49.1
XF-1502 Splitter Area 1	CNEL	104.5		168.4	-55.5	2.4	0.0	-1.2	0.00	-4.2	0.0	45.9	0.0	6.7	52.6
XF-1502 Splitter Area 2	CNEL	104.5		164.7	-55.3	2.3	0.0	-1.2		-4.2	0.0	46.1	0.0	6.7	52.8
XF-1504 Splitter Area 1	CNEL	104.5		169.2	-55.6	2.4	-4.9	-0.8	0.00	-3.8	0.0	41.8	0.0	6.7	48.5
XF-1504 Splitter Area 2	CNEL	104.5		165.6	-55.4	2.4	-5.3	-0.9		-3.7	0.0	41.6	0.0	6.7	48.3
XF 304, XF 321	CNEL	110.5	56	197.1	-56.9	2.3	-0.5	-0.7		-2.8	0.1	52.0	0.0	6.7	58.6
XF 313, XF 314	CNEL	113.0	18	227.4	-58.1	2.4	-4.9	-0.9	-0.72	-3.6	0.0	47.2	0.0	6.7	53.8
XF 335-1, XF 335-2	CNEL	113.4	54	209.1	-57.4	2.4	-3.6	-1.0	-0.01	-2.9	0.5	51.4	0.0	6.7	58.1
XF 503	CNEL	113.0	21	144.2	-54.2	2.1	0.0	-2.2	-1.03	-3.9	0.0	53.8	0.0	6.7	60.5
XF - 1601	CNEL	96.6		163.4	-55.3	2.4	0.0	-0.6		-2.6	0.0	40.6	0.0	6.7	47.2
XF - 1602	CNEL	96.6		165.3	-55.4	2.4	0.0	-0.6		-2.5	0.0	40.5	0.0	6.7	47.2
XF Module 1510	CNEL	108.3		159.9	-55.1	2.3	0.0	-1.2	-0.10	-4.3	0.0	50.0	0.0	6.7	56.7
XF Module 1519	CNEL	109.0		165.2	-55.4	2.3	0.0	-1.2	-0.21	-4.3	0.0	50.3	0.0	6.7	57.0
xxxx xxxx xxxx xxxx	CNEL		606								2.3				25.8
xxxx xxxx xxxx xxxx	CNEL		606								2.3				25.9
xxxx xxxx xxxx xxxx	CNEL		917								1.8				39.0
xxxx xxxx xxxx xxxx	CNEL		917								1.1				38.4
xxxx xxxx xxxx xxxx	CNEL		608								1.3				37.8
xxxx xxxx xxxx xxxx	CNEL		608								1.5				38.0
xxxx xxxx xxxx xxxx	CNEL		1172								2.6				43.6
xxxx xxxx xxxx xxxx	CNEL		520								2.4				25.7
xxxx xxxx xxxx xxxx	CNEL		572								2.6				41.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.1 dB(A)			Ld 7-19 dB(A)		Leq,N 63.7 dB(A)		Le 19-22 dB(A)		CNEL 70.4 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	136.5	-53.7	2.3	-0.3	0.0		0.0	0.0	41.8	0.0	6.7	48.4
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	81.8	-49.3	1.3	-0.1	-1.8		0.0	0.1	59.3	-10.8	0.0	48.5
Air Compressor C 1	CNEL	110.0	5	221.5	-57.9	3.3	-12.1	-0.5	-1.19	0.0	1.8	43.4	0.0	6.7	50.1
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		120.1	-52.6	2.3	-18.0	-1.5		0.0	6.8	37.3	0.0	6.7	43.9
Asphalt Production	CNEL	113.8	1206	164.3	-55.3	1.8	-3.8	-1.8		0.0	1.1	55.9	0.0	6.7	62.5
BFW Pumps P-073A&B	CNEL	95.8		112.9	-52.0	2.3	-16.7	-0.7		0.0	4.9	33.6	0.0	6.7	40.2
Blower F 401	CNEL	113.0		109.4	-51.8	0.5	-13.1	-0.2		0.0	0.0	48.5	0.0	6.7	55.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.0	-58.8	2.2	-1.2	-1.5		0.0	0.0	39.3	0.0	6.7	46.0
Brine Transfer P-085	CNEL	96.2		103.0	-51.2	2.6	-5.1	-0.9		0.0	0.0	41.5	0.0	6.7	48.1
Burner H301 North	CNEL	96.1	10	250.3	-59.0	3.2	-21.8	-1.3	-0.69	0.0	1.8	21.3	0.0	6.7	27.9
Burner H301 South	CNEL	95.9	10	247.0	-58.8	3.2	-10.6	-1.1	-1.05	0.0	0.5	31.0	0.0	6.7	37.7
Burner H302 North	CNEL	97.0	13	236.5	-58.5	3.1	-22.2	-1.3	-0.47	0.0	5.9	26.5	0.0	6.7	33.2
Burner H302 South	CNEL	97.0	13	233.7	-58.4	3.0	-13.5	-1.0	-0.66	0.0	1.6	31.1	0.0	6.7	37.8
Burner H303 North	CNEL	97.0	13	200.9	-57.1	2.6	-21.7	-1.1		0.0	8.0	30.8	0.0	6.7	37.4
Burner H303 South	CNEL	97.0	13	197.7	-56.9	2.6	-3.1	-1.4		0.0	0.0	41.1	0.0	6.7	47.8
Burner H304 North	CNEL	97.0	13	210.0	-57.4	2.7	-22.9	-1.3	-0.01	0.0	7.2	28.3	0.0	6.7	34.9
Burner H304 South	CNEL	97.0	13	206.7	-57.3	2.7	-15.7	-0.8		0.0	3.4	32.3	0.0	6.7	39.0
Burner H305 North	CNEL	96.3	11	218.0	-57.8	2.8	-22.9	-1.3	-0.08	0.0	10.6	30.8	0.0	6.7	37.4
Burner H305 South	CNEL	96.3	11	214.7	-57.6	2.8	-17.9	-0.9	-0.09	0.0	2.7	28.4	0.0	6.7	35.0
Burner H306 North	CNEL	95.0	8	226.5	-58.1	3.0	-22.3	-1.3	-0.29	0.0	9.3	28.4	0.0	6.7	35.0
Burner H306 South	CNEL	95.1	8	223.6	-58.0	2.9	-13.3	-0.9	-0.32	0.0	2.5	30.9	0.0	6.7	37.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.3	-54.9	1.6	-11.0	-0.7	-0.72	4.1	3.1	46.2	0.0	6.7	52.8
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	160.9	-55.1	1.7	-0.1	-1.4	-0.90	0.0	0.0	44.7	0.0	6.7	51.4
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.4	-55.5	1.6	-16.9	-0.4	-0.55	-7.8	8.6	35.6	0.0	6.7	42.3
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.5	-55.0	1.4	-11.1	-0.8	-0.20	0.7	0.0	45.7	0.0	6.7	52.4
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.0	-55.0	1.6	-9.4	-0.6	-0.78	0.4	0.2	40.2	0.0	6.7	46.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.0	-55.4	1.5	-14.5	-0.4		-6.1	2.8	28.3	0.0	6.7	34.9
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.3	-54.7	2.2	-14.4	-0.4		-2.5	9.4	37.5	0.0	6.7	44.1
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	151.9	-54.6	2.1	0.0	-1.2		1.6	0.0	45.8	0.0	6.7	52.5
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.5	-54.9	2.0	-11.2	-0.6		-4.9	11.9	43.0	0.0	6.7	49.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.2	-54.7	2.0	-1.1	-1.1		4.7	0.0	50.5	0.0	6.7	57.2
Cooling Tower M 512	CNEL	95.7		146.1	-54.3	2.6	-5.8	-0.7		0.0	0.2	37.8	0.0	6.7	44.5
Cooling Tower M 513	CNEL	95.7		145.8	-54.3	2.5	0.0	-0.8		0.0	2.4	45.6	0.0	6.7	52.3
Cooling Tower M 514	CNEL	95.7		146.1	-54.3	2.6	-9.3	-0.6		0.0	0.2	34.4	0.0	6.7	41.0
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	250.1	-59.0	3.3	-4.9	-2.5		0.0	0.2	50.8	0.0	6.7	57.5
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	250.1	-59.0	2.5	-4.5	-2.4		0.0	0.2	50.6	0.0	6.7	57.3
CT Y-600-CT Y-600 North	CNEL	96.4	51	191.7	-56.6	1.4	-7.4	-0.7		0.0	0.0	36.0	0.0	6.7	42.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	193.1	-56.7	1.3	-6.5	-1.0		0.0	0.0	36.5	0.0	6.7	43.2
Deaerator Skid P-058A&B	CNEL	96.2		122.6	-52.8	1.8	-0.4	-1.3		0.0	1.7	45.2	0.0	6.7	51.9
Exhaust Stack	CNEL	100.6		109.6	-51.8	1.5	0.0	-0.2		-0.1	0.0	50.1	0.0	6.7	56.7
F.G. After Cooler XF-083ABC	CNEL	100.2		133.1	-53.5	1.8	-10.0	-0.3		0.0	4.8	43.1	0.0	6.7	49.7
Fan Y-600	CNEL	107.5		192.4	-56.7	0.7	-9.5	-0.5		0.0	0.0	41.5	0.0	6.7	48.2
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	141.8	-54.0	0.9	-4.4	-0.1		0.0	0.1	24.9	0.0	6.7	31.6
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	147.1	-54.3	1.8	-7.9	-0.1		0.0	0.0	20.2	0.0	6.7	26.9
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	145.7	-54.3	2.3	-14.0	-0.7		0.0	0.2	7.6	0.0	6.7	14.3
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	143.4	-54.1	1.7	-10.3	0.0		0.0	0.3	21.2	0.0	6.7	27.9
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	139.5	-53.9	1.5	0.0	-0.1		0.0	0.0	22.5	0.0	6.7	29.2
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	136.1	-53.7	1.7	-5.2	-0.1		0.0	0.1	23.5	0.0	6.7	30.2
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	135.2	-53.6	2.3	-13.5	-0.7		0.0	6.1	14.7	0.0	6.7	21.4
Fin Fan XF 616 - Above	CNEL	96.0	75	221.1	-57.9	0.6	-0.1	-0.6		-13.0	0.0	25.0	0.0	6.7	31.7
Fin Fan XF 616 - Below	CNEL	108.0	75	221.1	-57.9	0.7	-0.1	-0.9		-7.1	0.0	42.8	0.0	6.7	49.4
Fin Fan XF 617 - Above	CNEL	93.0	21	229.3	-58.2	0.6	-0.1	-0.6		-13.1	0.0	21.7	0.0	6.7	28.3
Fin Fan XF 617 - Below	CNEL	104.0	21	229.2	-58.2	0.7	-0.1	-0.9		-7.1	0.0	38.4	0.0	6.7	45.1
Heater # 5-Heater	CNEL	91.1	13	248.5	-58.9	2.3	-11.9	-0.6		0.0	0.0	25.1	0.0	6.7	31.7
Heater # 5-Heater	CNEL	91.1	13	243.6	-58.7	2.3	-10.1	-0.6		0.0	0.0	27.0	0.0	6.7	33.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	238.6	-58.5	2.2	-6.4	-0.9		0.0	0.0	30.5	0.0	6.7	37.2
Heater H 601	CNEL	89.1	13	231.6	-58.3	1.9	-1.0	-1.6		0.0	0.0	30.2	0.0	6.7	36.8
Hydro Heater H-402	CNEL	98.1		145.7	-54.3	1.9	-2.5	-0.6		0.0	0.0	42.7	0.0	6.7	49.3
ID Fan	CNEL	110.3		227.6	-58.1	1.7	-18.1	-0.4		0.0	4.0	39.3	0.0	6.7	46.0
ID Fan 200 HP Motor	CNEL	104.4		225.9	-58.1	2.9	-23.0	-1.6		0.0	1.4	26.1	0.0	6.7	32.8
Incinirator Compressor & Motor	CNEL	92.5		322.4	-61.2	2.8	-3.8	-1.4		0.0	0.0	29.1	0.0	6.7	35.7
Incinirator Fin Fan	CNEL	94.8		321.5	-61.1	3.1	-3.5	-1.2		0.0	0.0	32.1	0.0	6.7	38.8
Lub Oil Cooler XF-061	CNEL	100.5		128.8	-53.2	2.0	-18.1	-0.2		0.0	12.2	43.2	0.0	6.7	49.9
Misc pumps motors	CNEL	100.2	332	217.9	-57.8	3.3	-15.2	-1.0		0.0	3.6	33.1	0.0	6.7	39.8
Motor & Pump P 56A/B	CNEL	93.7		162.4	-55.2	2.8	-8.6	-0.9	-1.16	0.0	0.0	30.6	0.0	6.7	37.3
Motor & Pump P 120/121	CNEL	96.2	2	208.7	-57.4	3.4	-17.5	-0.7	-1.20	0.0	2.9	25.6	0.0	6.7	32.3
Motor & Pump P 211/212	CNEL	93.7		141.6	-54.0	2.5	-4.6	-1.3	-0.61	0.0	0.2	35.8	0.0	6.7	42.4
Motor & Pump P 215/214	CNEL	94.6		146.6	-54.3	2.6	-7.5	-0.9	-0.74	0.0	1.2	35.0	0.0	6.7	41.7
Motor & Pump P 216	CNEL	98.3		143.9	-54.2	2.3	0.0	-1.4	-0.58	0.0	0.2	44.7	0.0	6.7	51.3
Motor & Pump P 217/218	CNEL	93.7		143.5	-54.1	2.9	-5.0	-1.3	-0.65	0.0	0.2	35.7	0.0	6.7	42.4
Motor & Pump P 300	CNEL	97.1	2	213.1	-57.6	3.4	-15.8	-0.7	-1.22	0.0	0.0	25.2	0.0	6.7	31.9
Motor & Pump P 301	CNEL	102.1	2	211.4	-57.5	3.4	-15.4	-0.7	-1.22	0.0	0.0	30.6	0.0	6.7	37.3
Motor & Pump P 302	CNEL	97.1	2	214.8	-57.6	3.4	-16.5	-0.7	-1.22	0.0	0.2	24.6	0.0	6.7	31.3
Motor & Pump P 303	CNEL	97.1	2	216.3	-57.7	3.3	-16.4	-0.7	-1.22	0.0	0.4	24.9	0.0	6.7	31.5
Motor & Pump P 305	CNEL	97.5	2	217.8	-57.8	3.4	-16.2	-0.7	-1.22	0.0	0.2	25.3	0.0	6.7	31.9
Motor & Pump P 306	CNEL	112.6	4	226.7	-58.1	3.0	-15.3	-0.7	-0.93	0.0	0.6	41.2	0.0	6.7	47.9
Motor & Pump P 307	CNEL	102.1	2	206.6	-57.3	3.3	-10.6	-0.7	-1.21	0.0	0.0	35.5	0.0	6.7	42.2
Motor & Pump P 309	CNEL	97.5	2	219.3	-57.8	3.4	-15.9	-0.7	-1.22	0.0	0.3	25.5	0.0	6.7	32.2
Motor & Pump P 312	CNEL	101.5	2	185.1	-56.3	3.3	-5.9	-0.7	-1.21	0.0	1.0	41.7	0.0	6.7	48.3
Motor & Pump P 313	CNEL	101.5	2	183.4	-56.3	3.2	-5.9	-0.7	-1.21	0.0	1.1	41.8	0.0	6.7	48.4
Motor & Pump P 315	CNEL	102.9	2	177.2	-56.0	3.0	-4.1	-0.8	-1.19	0.0	0.7	44.6	0.0	6.7	51.3
Motor & Pump P 316	CNEL	102.9	2	175.2	-55.9	3.0	-4.4	-0.8	-1.20	0.0	0.6	44.2	0.0	6.7	50.9
Motor & Pump P 317	CNEL	102.9	2	173.3	-55.8	2.9	-4.7	-0.7	-1.20	0.0	0.4	43.9	0.0	6.7	50.5
Motor & Pump P 318	CNEL	100.2	1	179.0	-56.0	3.3	-5.3	-0.7	-1.20	0.0	0.8	41.0	0.0	6.7	47.6
Motor & Pump P 319	CNEL	100.2	1	180.4	-56.1	3.3	-6.0	-0.7	-1.21	0.0	0.9	40.4	0.0	6.7	47.0
Motor & Pump P 327	CNEL	111.2	3	234.7	-58.4	3.6	-21.5	-1.4	-1.16	0.0	1.2	33.6	0.0	6.7	40.3
Motor & Pump P 328	CNEL	109.9	5	221.0	-57.9	3.2	-15.7	-0.7	-0.97	0.0	0.3	38.2	0.0	6.7	44.9
Motor & Pump P 329	CNEL	110.2	5	223.8	-58.0	3.3	-16.0	-0.7	-0.93	0.0	0.5	38.3	0.0	6.7	45.0
Motor & Pump P 451	CNEL	93.7		138.7	-53.8	2.4	-9.5	-0.8		0.0	0.0	31.9	0.0	6.7	38.5
Motor & Pump P 453	CNEL	93.7		126.9	-53.1	2.2	-7.8	-0.7		0.0	0.0	34.2	0.0	6.7	40.9
Motor & Pump P 454	CNEL	93.7		139.3	-53.9	2.4	0.0	-1.4		0.0	0.0	40.8	0.0	6.7	47.5
Motor & Pump P 457	CNEL	93.7		125.4	-53.0	2.2	-7.8	-0.8		0.0	0.0	34.3	0.0	6.7	41.0
Motor & Pump P 458	CNEL	93.7		138.7	-53.8	2.4	-12.5	-0.6		0.0	0.0	29.1	0.0	6.7	35.8
Motor & Pump P 459	CNEL	93.7		140.3	-53.9	2.4	0.0	-1.4		0.0	0.0	40.8	0.0	6.7	47.4
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.2	-55.5	3.0	-9.3	-0.9		0.0	0.1	33.7	0.0	6.7	40.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		168.9	-55.5	3.1	-7.4	-1.0		0.0	0.0	35.3	0.0	6.7	42.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.7	-57.1	3.5	-4.9	-1.5	-0.81	0.0	0.0	34.6	0.0	6.7	41.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		203.8	-57.2	3.5	-4.8	-1.5	-0.83	0.0	0.0	34.6	0.0	6.7	41.3
Motor & Pump P 1601 A	CNEL	96.3	2	170.7	-55.6	2.8	-9.2	-1.0		0.0	0.0	33.2	0.0	6.7	39.9
Motor & Pump P 1601 B	CNEL	96.3	2	171.0	-55.7	2.8	-13.2	-0.9		0.0	0.0	29.3	0.0	6.7	36.0
Motor & Pump P 1602 A	CNEL	96.3	2	171.0	-55.7	2.8	-15.2	-0.9		0.0	0.0	27.3	0.0	6.7	34.0
Motor & Pump P 1602 B	CNEL	96.5	2	171.4	-55.7	2.8	-16.8	-0.9		0.0	0.0	25.9	0.0	6.7	32.6
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.2	-55.5	3.2	-13.2	-0.8	-0.08	0.0	0.0	30.1	0.0	6.7	36.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.1	-55.8	3.2	-11.3	-0.9	-0.19	0.0	0.0	31.6	0.0	6.7	38.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.5	-55.9	3.2	-10.6	-0.9	-0.24	0.0	0.0	32.2	0.0	6.7	38.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.4	-55.6	3.1	-4.9	-1.2		0.0	0.0	38.0	0.0	6.7	44.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.2	-55.7	3.1	-4.6	-1.3		0.0	0.0	38.3	0.0	6.7	44.9
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.3	-56.2	3.3	-17.2	-1.0	-0.21	0.0	0.0	25.0	0.0	6.7	31.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.0	-56.1	3.3	-13.2	-0.8	-0.35	0.0	1.0	30.1	0.0	6.7	36.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.6	-56.1	3.3	-10.0	-1.0	-0.35	0.0	0.0	32.2	0.0	6.7	38.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	3.3	-12.1	-0.9	-0.35	0.0	2.2	32.4	0.0	6.7	39.1
P602 100 HP	CNEL	94.1		216.8	-57.7	2.6	-13.6	-0.6		0.0	0.0	24.8	0.0	6.7	31.5
P603 60 HP	CNEL	95.0		211.3	-57.5	2.8	-15.5	-0.9		0.0	0.1	24.0	0.0	6.7	30.7
P605 40 HP	CNEL	95.0		212.7	-57.5	2.7	-15.5	-0.9		0.0	0.1	23.9	0.0	6.7	30.6
P607 15 HP	CNEL	90.5		222.4	-57.9	2.9	-13.9	-0.7		0.0	0.8	21.7	0.0	6.7	28.4
P608 15 HP	CNEL	90.5		225.1	-58.0	2.9	-14.8	-0.7		0.0	0.0	19.9	0.0	6.7	26.6
P611 15 HP	CNEL	90.5		219.6	-57.8	2.8	-14.1	-0.7		0.0	0.1	20.8	0.0	6.7	27.5
P614/615 20 HP	CNEL	93.0		214.3	-57.6	2.2	-16.4	-0.7		0.0	2.8	23.4	0.0	6.7	30.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.6	-49.9	0.5	-0.6	-0.3		0.0	0.3	84.6	-38.6	0.0	46.0
Scanner Blower C-084A/B	CNEL	95.5		122.9	-52.8	2.2	-9.2	-0.4		0.0	2.3	37.7	0.0	6.7	44.4
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	112.8	-52.0	1.9	-7.9	-0.1		0.0	0.1	13.5	0.0	6.7	20.2
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	110.9	-51.9	1.8	-5.8	-0.1		0.0	0.0	13.8	0.0	6.7	20.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	111.1	-51.9	1.4	-4.7	-0.1		0.0	0.6	14.7	0.0	6.7	21.4
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	110.2	-51.8	2.0	0.0	-0.1		0.0	0.0	21.5	0.0	6.7	28.2
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	109.3	-51.8	2.0	0.0	-0.2		0.0	0.0	21.9	0.0	6.7	28.5
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	125.0	-52.9	1.9	-14.8	-0.1		0.0	0.4	14.6	0.0	6.7	21.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	126.5	-53.0	2.0	-15.2	-0.1		0.0	0.9	13.7	0.0	6.7	20.4
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	123.7	-52.8	1.9	-14.5	-0.1		0.0	6.2	30.7	0.0	6.7	37.4
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	126.8	-53.1	1.9	-15.1	-0.1		0.0	6.0	21.4	0.0	6.7	28.1
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	122.8	-52.8	1.4	-4.6	-0.2		0.0	1.1	30.3	0.0	6.7	37.0
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	121.5	-52.7	1.9	-4.7	-0.2		0.0	0.0	34.5	0.0	6.7	41.2
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	125.8	-53.0	1.9	-9.9	-0.2		0.0	0.2	20.6	0.0	6.7	27.3
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	135.3	-53.6	2.2	-18.8	-0.5		0.0	3.4	32.0	0.0	6.7	38.7
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	132.0	-53.4	2.2	-19.4	-0.5		0.0	11.2	44.8	0.0	6.7	51.5
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	131.0	-53.3	1.7	-5.6	-0.9		0.0	2.5	45.6	0.0	6.7	52.3
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	129.8	-53.3	2.2	-8.7	-0.6		0.0	1.1	45.5	0.0	6.7	52.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	127.5	-53.1	2.2	-21.2	-0.6		0.0	15.2	36.0	0.0	6.7	42.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	125.8	-53.0	2.1	-8.4	-0.6		0.0	0.1	33.9	0.0	6.7	40.6
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	115.9	-52.3	1.4	-4.4	-0.2		0.0	0.9	23.5	0.0	6.7	30.2
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	120.7	-52.6	1.9	-12.5	-0.1		0.0	6.6	15.2	0.0	6.7	21.9
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	118.2	-52.4	1.8	-11.8	-0.1		0.0	6.9	23.3	0.0	6.7	30.0
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	114.7	-52.2	1.8	-8.6	-0.1		0.0	2.6	17.0	0.0	6.7	23.6
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	117.6	-52.4	1.8	-2.9	-0.2		0.0	0.0	20.1	0.0	6.7	26.8
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	113.8	-52.1	1.8	-1.8	-0.1		0.0	0.0	26.8	0.0	6.7	33.4
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	111.2	-51.9	1.7	0.0	-0.2		0.0	0.0	23.0	0.0	6.7	29.7
Tank Farm Pump 1	CNEL	99.0	3	314.2	-60.9	4.1	-5.9	-1.7		0.0	0.0	34.6	0.0	6.7	41.2
Tank Farm Pump 2	CNEL	99.0	3	333.6	-61.5	4.2	-5.8	-1.8		0.0	0.0	34.0	0.0	6.7	40.7
Tank Farm Pump 3	CNEL	99.0	3	339.0	-61.6	4.2	-5.8	-1.9		0.0	0.0	33.9	0.0	6.7	40.6
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	124.5	-52.9	1.2	-0.1	-1.8		0.0	0.2	59.0	-16.8	0.0	42.2
Vaporizer Blower 1	CNEL	88.7		125.0	-52.9	2.5	-21.9	-0.5		0.0	16.7	32.6	0.0	6.7	39.2
Vaporizer Blower 2	CNEL	88.7		125.4	-53.0	2.5	-21.4	-0.4		0.0	16.2	32.6	0.0	6.7	39.3
Vaporizer Inlet Silencer	CNEL	73.7		126.3	-53.0	1.6	-13.1	-0.1		0.0	6.1	15.3	0.0	6.7	21.9
Vaporizer Motor 1	CNEL	83.6		124.7	-52.9	2.6	-22.7	-0.7		0.0	17.6	27.5	0.0	6.7	34.2
Vaporizer Motor 2	CNEL	83.6		125.0	-52.9	2.6	-22.2	-0.6		0.0	17.1	27.6	0.0	6.7	34.2
Water Treatment Pumps P-056A&B	CNEL	93.0		106.4	-51.5	2.5	-8.1	-0.6		0.0	0.0	35.3	0.0	6.7	41.9
XF-1502 Splitter Area 1	CNEL	104.5		177.4	-56.0	1.9	0.0	-1.3	-0.25	-4.4	0.0	44.5	0.0	6.7	51.2
XF-1502 Splitter Area 2	CNEL	104.5		173.6	-55.8	1.9	0.0	-1.3	-0.02	-4.4	0.0	44.9	0.0	6.7	51.6
XF-1504 Splitter Area 1	CNEL	104.5		177.8	-56.0	1.9	-13.5	-0.7	0.00	-3.3	0.0	33.0	0.0	6.7	39.6
XF-1504 Splitter Area 2	CNEL	104.5		174.1	-55.8	1.9	-3.0	-1.1	-0.09	-4.2	0.0	42.2	0.0	6.7	48.8
XF 304, XF 321	CNEL	110.5	56	211.8	-57.5	1.3	-0.9	-1.0	-1.33	-3.7	0.2	47.6	0.0	6.7	54.3
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	1.6	-4.7	-1.1	-1.44	-3.9	0.1	44.9	0.0	6.7	51.6
XF 335-1, XF 335-2	CNEL	113.4	54	223.7	-58.0	1.5	-3.9	-1.1	-1.30	-3.2	0.4	47.9	0.0	6.7	54.5
XF 503	CNEL	113.0	21	158.1	-55.0	1.5	-0.5	-2.7	-1.01	-4.3	0.1	51.1	0.0	6.7	57.8
XF - 1601	CNEL	96.6		170.3	-55.6	1.6	0.0	-0.6		-2.9	0.0	39.1	0.0	6.7	45.8
XF - 1602	CNEL	96.6		171.6	-55.7	1.6	0.0	-0.6		-2.9	0.0	39.1	0.0	6.7	45.7
XF Module 1510	CNEL	108.3		169.4	-55.6	1.9	0.0	-1.3	-0.10	-4.4	0.0	48.9	0.0	6.7	55.6
XF Module 1519	CNEL	109.0		174.8	-55.8	1.9	0.0	-1.3	-0.20	-4.4	0.0	49.2	0.0	6.7	55.9
xxxx xxxx xxxx xxxx	CNEL		606								2.2				25.1
xxxx xxxx xxxx xxxx	CNEL		606								2.0				24.8
xxxx xxxx xxxx xxxx	CNEL		917								1.6				36.5
xxxx xxxx xxxx xxxx	CNEL		917								0.9				35.8
xxxx xxxx xxxx xxxx	CNEL		608								2.1				35.0
xxxx xxxx xxxx xxxx	CNEL		608								2.1				34.9
xxxx xxxx xxxx xxxx	CNEL		1172								2.7				43.0
xxxx xxxx xxxx xxxx	CNEL		520								3.7				25.4
xxxx xxxx xxxx xxxx	CNEL		572								1.4				40.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-3 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.8 dB(A)			Ld 7-19 dB(A)			Leq,N 64.5 dB(A)		Le 19-22 dB(A)		CNEL 71.2 dB(A)		Lmax day hr dB(A)	Ld 7-1
2.8-Open Intake	CNEL	90.5	8	136.5	-53.7	2.5	-0.4	0.0		0.0	0.0	41.8	0.0	6.7	48.5
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	82.0	-49.3	1.3	-0.1	-1.7		0.0	0.1	59.3	-10.8	0.0	48.5
Air Compressor C 1	CNEL	110.0	5	221.5	-57.9	2.9	-9.6	-0.5	-1.23	0.0	1.4	45.0	0.0	6.7	51.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		120.2	-52.6	2.5	-17.8	-1.4		0.0	8.1	39.1	0.0	6.7	45.8
Asphalt Production	CNEL	113.8	1206	164.3	-55.3	2.4	-3.5	-1.9		0.0	0.9	56.4	0.0	6.7	63.1
BFW Pumps P-073A&B	CNEL	95.8		113.0	-52.1	2.5	-16.4	-0.7		0.0	6.0	35.3	0.0	6.7	41.9
Blower F 401	CNEL	113.0		109.5	-51.8	1.5	-13.1	-0.1		0.0	0.0	49.5	0.0	6.7	56.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.0	-58.8	2.4	-0.3	-1.2		0.0	0.0	40.7	0.0	6.7	47.4
Brine Transfer P-085	CNEL	96.2		103.2	-51.3	2.5	-5.1	-0.9		0.0	0.0	41.4	0.0	6.7	48.1
Burner H301 North	CNEL	96.1	10	250.3	-59.0	2.8	-21.6	-1.3	-0.60	0.0	1.9	21.3	0.0	6.7	28.0
Burner H301 South	CNEL	95.9	10	247.0	-58.8	2.7	-8.6	-1.5	-1.05	0.0	0.7	32.4	0.0	6.7	39.1
Burner H302 North	CNEL	97.0	13	236.5	-58.5	2.6	-22.1	-1.2	-0.46	0.0	7.2	27.5	0.0	6.7	34.1
Burner H302 South	CNEL	97.0	13	233.8	-58.4	2.6	-11.0	-1.3	-0.64	0.0	1.6	32.8	0.0	6.7	39.5
Burner H303 North	CNEL	97.0	13	200.9	-57.1	2.4	-21.5	-1.1		0.0	10.6	33.4	0.0	6.7	40.1
Burner H303 South	CNEL	97.0	13	197.7	-56.9	2.4	-3.0	-1.4		0.0	0.1	41.1	0.0	6.7	47.8
Burner H304 North	CNEL	97.0	13	210.0	-57.4	2.5	-22.7	-1.3	-0.01	0.0	9.1	30.2	0.0	6.7	36.9
Burner H304 South	CNEL	97.0	13	206.7	-57.3	2.4	-13.2	-0.9		0.0	3.3	34.4	0.0	6.7	41.1
Burner H305 North	CNEL	96.3	11	218.0	-57.8	2.5	-22.8	-1.3	-0.03	0.0	12.8	32.8	0.0	6.7	39.4
Burner H305 South	CNEL	96.3	11	214.7	-57.6	2.5	-15.8	-1.0	-0.07	0.0	2.9	30.2	0.0	6.7	36.8
Burner H306 North	CNEL	95.0	8	226.6	-58.1	2.5	-22.1	-1.3	-0.28	0.0	11.3	30.1	0.0	6.7	36.8
Burner H306 South	CNEL	95.1	8	223.7	-58.0	2.5	-10.4	-1.2	-0.31	0.0	2.4	33.0	0.0	6.7	39.7
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.3	-54.9	2.2	-10.6	-0.7	-0.73	4.1	3.3	47.4	0.0	6.7	54.0
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	161.0	-55.1	2.3	-0.1	-1.3	-0.91	0.0	0.0	45.4	0.0	6.7	52.0
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.4	-55.5	2.2	-14.9	-0.5	-0.52	-7.8	7.3	36.9	0.0	6.7	43.6
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.5	-55.0	2.1	-11.0	-0.8	-0.20	0.7	0.0	46.5	0.0	6.7	53.2
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.0	-55.0	2.2	-9.0	-0.6	-0.79	0.4	0.2	41.2	0.0	6.7	47.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.1	-55.5	2.1	-13.1	-0.5		-6.1	1.9	29.2	0.0	6.7	35.9
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.3	-54.7	2.5	-14.0	-0.4		-2.5	8.5	37.3	0.0	6.7	44.0
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.0	-54.6	2.4	0.0	-1.1		1.6	0.0	46.2	0.0	6.7	52.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.5	-54.9	2.4	-10.1	-0.6		-4.9	10.7	43.3	0.0	6.7	50.0
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.2	-54.7	2.5	-0.9	-1.1		4.7	0.0	51.1	0.0	6.7	57.8
Cooling Tower M 512	CNEL	95.7		146.2	-54.3	2.6	-5.7	-0.7		0.0	0.3	37.8	0.0	6.7	44.5
Cooling Tower M 513	CNEL	95.7		145.9	-54.3	2.6	0.0	-0.8		0.0	2.4	45.6	0.0	6.7	52.3
Cooling Tower M 514	CNEL	95.7		146.2	-54.3	2.6	-9.2	-0.6		0.0	0.3	34.5	0.0	6.7	41.2
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	250.2	-59.0	3.0	-4.5	-2.3		0.0	0.2	51.2	0.0	6.7	57.8
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	250.1	-59.0	2.4	-4.1	-2.3		0.0	0.2	51.1	0.0	6.7	57.7
CT Y-600-CT Y-600 North	CNEL	96.4	51	191.7	-56.6	2.0	-7.0	-0.7		0.0	0.0	37.0	0.0	6.7	43.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	193.1	-56.7	1.7	-6.4	-0.9		0.0	0.0	37.2	0.0	6.7	43.9
Deaerator Skid P-058A&B	CNEL	96.2		122.6	-52.8	2.1	-0.1	-1.2		0.0	0.0	44.3	0.0	6.7	50.9
Exhaust Stack	CNEL	100.6		109.4	-51.8	2.0	0.0	-0.2		-0.1	0.0	50.6	0.0	6.7	57.3
F.G. After Cooler XF-083ABC	CNEL	100.2		133.2	-53.5	2.4	-9.5	-0.3		0.0	4.7	44.1	0.0	6.7	50.8
Fan Y-600	CNEL	107.5		192.3	-56.7	1.5	-9.2	-0.5		0.0	0.0	42.7	0.0	6.7	49.4
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	141.8	-54.0	1.6	-4.8	-0.1		0.0	0.1	25.2	0.0	6.7	31.9
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	147.1	-54.3	2.2	-7.9	-0.1		0.0	0.0	20.6	0.0	6.7	27.3
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	145.7	-54.3	2.6	-13.4	-0.9		0.0	0.3	8.5	0.0	6.7	15.1
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	143.4	-54.1	2.2	-9.8	-0.1		0.0	0.3	22.2	0.0	6.7	28.9
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	139.6	-53.9	2.0	0.0	-0.1		0.0	0.0	23.0	0.0	6.7	29.7
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	136.2	-53.7	2.1	-5.2	-0.1		0.0	0.1	24.1	0.0	6.7	30.7
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	135.2	-53.6	2.6	-13.5	-0.7		0.0	6.8	15.7	0.0	6.7	22.4
Fin Fan XF 616 - Above	CNEL	96.0	75	221.0	-57.9	1.6	-0.1	-0.5		-12.3	0.0	26.8	0.0	6.7	33.5
Fin Fan XF 616 - Below	CNEL	108.0	75	221.0	-57.9	1.7	-0.1	-0.8		-7.5	0.0	43.4	0.0	6.7	50.1
Fin Fan XF 617 - Above	CNEL	93.0	21	229.1	-58.2	1.7	-0.1	-0.6		-12.4	0.0	23.5	0.0	6.7	30.2
Fin Fan XF 617 - Below	CNEL	104.0	21	229.1	-58.2	1.7	-0.1	-0.8		-7.5	0.0	39.1	0.0	6.7	45.8
Heater # 5-Heater	CNEL	91.1	13	248.6	-58.9	2.5	-11.3	-0.5		0.0	0.0	25.9	0.0	6.7	32.6
Heater # 5-Heater	CNEL	91.1	13	243.7	-58.7	2.4	-9.5	-0.5		0.0	0.0	27.8	0.0	6.7	34.5

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	238.6	-58.5	2.3	-6.1	-0.8		0.0	0.0	31.0	0.0	6.7	37.6
Heater H 601	CNEL	89.1	13	231.6	-58.3	2.0	-0.4	-1.3		0.0	0.0	31.2	0.0	6.7	37.9
Hydro Heater H-402	CNEL	98.1		145.8	-54.3	2.5	-2.1	-0.5		0.0	0.0	43.8	0.0	6.7	50.4
ID Fan	CNEL	110.3		227.6	-58.1	2.3	-17.6	-0.4		0.0	4.1	40.6	0.0	6.7	47.3
ID Fan 200 HP Motor	CNEL	104.4		226.0	-58.1	2.5	-22.8	-1.4		0.0	1.5	26.0	0.0	6.7	32.7
Incinirator Compressor & Motor	CNEL	92.5		322.5	-61.2	3.1	-3.7	-1.3		0.0	0.1	29.5	0.0	6.7	36.2
Incinirator Fin Fan	CNEL	94.8		321.6	-61.1	3.1	-3.4	-1.2		0.0	0.1	32.3	0.0	6.7	39.0
Lub Oil Cooler XF-061	CNEL	100.5		128.9	-53.2	2.5	-14.8	-0.2		0.0	9.2	43.9	0.0	6.7	50.6
Misc pumps motors	CNEL	100.2	332	217.9	-57.8	2.7	-12.7	-1.3		0.0	4.1	35.2	0.0	6.7	41.9
Motor & Pump P 56A/B	CNEL	93.7		162.4	-55.2	2.6	-8.4	-0.8	-1.17	0.0	0.1	30.7	0.0	6.7	37.4
Motor & Pump P 120/121	CNEL	96.2	2	208.7	-57.4	2.7	-17.3	-0.7	-1.22	0.0	3.3	25.7	0.0	6.7	32.3
Motor & Pump P 211/212	CNEL	93.7		141.6	-54.0	2.5	-4.5	-1.3	-0.61	0.0	0.4	36.1	0.0	6.7	42.8
Motor & Pump P 215/214	CNEL	94.6		146.6	-54.3	2.5	-7.3	-0.8	-0.75	0.0	1.6	35.6	0.0	6.7	42.2
Motor & Pump P 216	CNEL	98.3		144.0	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.3	44.9	0.0	6.7	51.6
Motor & Pump P 217/218	CNEL	93.7		143.6	-54.1	2.5	-4.9	-1.2	-0.66	0.0	0.5	35.7	0.0	6.7	42.4
Motor & Pump P 300	CNEL	97.1	2	213.1	-57.6	2.8	-15.5	-0.7	-1.23	0.0	0.0	25.0	0.0	6.7	31.6
Motor & Pump P 301	CNEL	102.1	2	211.5	-57.5	2.7	-15.2	-0.7	-1.23	0.0	0.0	30.3	0.0	6.7	37.0
Motor & Pump P 302	CNEL	97.1	2	214.9	-57.6	2.8	-16.2	-0.6	-1.23	0.0	0.2	24.4	0.0	6.7	31.1
Motor & Pump P 303	CNEL	97.1	2	216.4	-57.7	2.7	-16.0	-0.6	-1.23	0.0	0.4	24.7	0.0	6.7	31.3
Motor & Pump P 305	CNEL	97.5	2	217.8	-57.8	2.8	-15.7	-0.6	-1.23	0.0	0.2	25.1	0.0	6.7	31.8
Motor & Pump P 306	CNEL	112.6	4	226.8	-58.1	2.7	-14.5	-0.6	-0.90	0.0	0.5	41.7	0.0	6.7	48.3
Motor & Pump P 307	CNEL	102.1	2	206.7	-57.3	2.7	-8.1	-0.9	-1.20	0.0	0.0	37.3	0.0	6.7	44.0
Motor & Pump P 309	CNEL	97.5	2	219.3	-57.8	2.8	-15.5	-0.6	-1.23	0.0	0.3	25.4	0.0	6.7	32.1
Motor & Pump P 312	CNEL	101.5	2	185.2	-56.3	2.6	-3.9	-0.9	-1.19	0.0	1.5	43.3	0.0	6.7	49.9
Motor & Pump P 313	CNEL	101.5	2	183.5	-56.3	2.6	-3.9	-0.9	-1.19	0.0	1.5	43.4	0.0	6.7	50.0
Motor & Pump P 315	CNEL	102.9	2	177.2	-56.0	2.5	-3.4	-0.8	-1.20	0.0	1.0	45.0	0.0	6.7	51.7
Motor & Pump P 316	CNEL	102.9	2	175.3	-55.9	2.5	-3.7	-0.8	-1.20	0.0	0.8	44.7	0.0	6.7	51.4
Motor & Pump P 317	CNEL	102.9	2	173.4	-55.8	2.5	-3.8	-0.8	-1.20	0.0	0.5	44.4	0.0	6.7	51.0
Motor & Pump P 318	CNEL	100.2	1	179.1	-56.1	2.6	-3.8	-0.8	-1.20	0.0	1.3	42.2	0.0	6.7	48.9
Motor & Pump P 319	CNEL	100.2	1	180.5	-56.1	2.6	-3.9	-0.8	-1.20	0.0	1.4	42.1	0.0	6.7	48.7
Motor & Pump P 327	CNEL	111.2	3	234.7	-58.4	3.0	-21.4	-1.4	-0.09	0.0	1.2	34.1	0.0	6.7	40.8
Motor & Pump P 328	CNEL	109.9	5	221.0	-57.9	2.6	-15.2	-0.6	-0.98	0.0	0.3	38.1	0.0	6.7	44.8
Motor & Pump P 329	CNEL	110.2	5	223.9	-58.0	2.7	-15.5	-0.7	-0.88	0.0	0.4	38.2	0.0	6.7	44.9
Motor & Pump P 451	CNEL	93.7		138.8	-53.8	2.5	-9.3	-0.8		0.0	0.0	32.3	0.0	6.7	39.0
Motor & Pump P 453	CNEL	93.7		127.0	-53.1	2.5	-6.5	-0.8		0.0	0.0	35.8	0.0	6.7	42.5
Motor & Pump P 454	CNEL	93.7		139.4	-53.9	2.5	0.0	-1.4		0.0	0.0	41.0	0.0	6.7	47.6
Motor & Pump P 457	CNEL	93.7		125.5	-53.0	2.5	-6.6	-0.7		0.0	0.0	35.8	0.0	6.7	42.5
Motor & Pump P 458	CNEL	93.7		138.7	-53.8	2.5	-12.0	-0.6		0.0	0.0	29.8	0.0	6.7	36.4
Motor & Pump P 459	CNEL	93.7		140.4	-53.9	2.5	0.0	-1.4		0.0	0.0	40.9	0.0	6.7	47.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.3	-55.5	2.6	-9.0	-0.9		0.0	0.1	33.6	0.0	6.7	40.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		169.0	-55.5	2.6	-7.2	-1.0		0.0	0.0	35.2	0.0	6.7	41.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.7	-57.1	2.7	-3.8	-1.5	-0.81	0.0	0.0	34.9	0.0	6.7	41.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		203.9	-57.2	2.7	-3.6	-1.5	-0.83	0.0	0.0	34.9	0.0	6.7	41.6
Motor & Pump P 1601 A	CNEL	96.3	2	170.8	-55.6	2.7	-9.1	-1.0		0.0	0.0	33.2	0.0	6.7	39.8
Motor & Pump P 1601 B	CNEL	96.3	2	171.1	-55.7	2.7	-13.0	-0.9		0.0	0.0	29.4	0.0	6.7	36.1
Motor & Pump P 1602 A	CNEL	96.3	2	171.1	-55.7	2.7	-15.0	-0.8		0.0	0.0	27.5	0.0	6.7	34.2
Motor & Pump P 1602 B	CNEL	96.5	2	171.4	-55.7	2.7	-16.6	-0.8		0.0	0.0	26.1	0.0	6.7	32.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.3	-55.5	2.6	-11.9	-0.8	-0.08	0.0	0.0	30.9	0.0	6.7	37.6
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.2	-55.8	2.6	-10.1	-0.9	-0.19	0.0	0.0	32.3	0.0	6.7	39.0
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.6	-55.9	2.6	-9.3	-0.9	-0.24	0.0	0.0	32.9	0.0	6.7	39.5
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.4	-55.6	2.6	-4.8	-1.2		0.0	0.0	37.7	0.0	6.7	44.4
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.2	-55.7	2.6	-4.4	-1.2		0.0	0.0	38.0	0.0	6.7	44.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.3	-56.2	2.7	-17.1	-0.9	-0.21	0.0	0.0	24.6	0.0	6.7	31.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.1	-56.2	2.7	-10.6	-0.9	-0.35	0.0	0.3	31.2	0.0	6.7	37.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.7	-56.1	2.6	-8.6	-1.0	-0.35	0.0	0.0	33.0	0.0	6.7	39.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	2.7	-10.0	-0.9	-0.35	0.0	0.0	31.6	0.0	6.7	38.3
P602 100 HP	CNEL	94.1		216.9	-57.7	2.3	-13.2	-0.6		0.0	0.0	24.9	0.0	6.7	31.6
P603 60 HP	CNEL	95.0		211.3	-57.5	2.3	-15.3	-0.9		0.0	0.1	23.8	0.0	6.7	30.4
P605 40 HP	CNEL	95.0		212.7	-57.5	2.3	-15.3	-0.9		0.0	0.1	23.7	0.0	6.7	30.4
P607 15 HP	CNEL	90.5		222.4	-57.9	2.5	-13.6	-0.7		0.0	0.9	21.7	0.0	6.7	28.4
P608 15 HP	CNEL	90.5		225.2	-58.0	2.6	-14.4	-0.7		0.0	0.0	19.9	0.0	6.7	26.6
P611 15 HP	CNEL	90.5		219.6	-57.8	2.5	-13.8	-0.7		0.0	0.1	20.7	0.0	6.7	27.4
P614/615 20 HP	CNEL	93.0		214.4	-57.6	2.3	-15.9	-0.7		0.0	2.4	23.5	0.0	6.7	30.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.8	-50.0	0.8	-0.2	-0.3		0.0	0.2	85.2	-38.6	0.0	46.6
Scanner Blower C-084A/B	CNEL	95.5		123.0	-52.8	2.6	-8.1	-0.4		0.0	2.4	39.2	0.0	6.7	45.9
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	112.9	-52.0	2.3	-8.0	-0.1		0.0	0.1	13.8	0.0	6.7	20.5
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	111.0	-51.9	2.2	-5.8	-0.1		0.0	0.0	14.2	0.0	6.7	20.9
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	111.2	-51.9	1.8	-4.7	-0.1		0.0	0.6	15.1	0.0	6.7	21.8
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	110.3	-51.8	2.4	0.0	-0.1		0.0	0.0	21.9	0.0	6.7	28.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	109.4	-51.8	2.4	0.0	-0.2		0.0	0.0	22.3	0.0	6.7	29.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	125.1	-52.9	2.3	-12.3	-0.1		0.0	0.4	17.4	0.0	6.7	24.1
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	126.6	-53.0	2.3	-13.1	-0.1		0.0	0.6	15.9	0.0	6.7	22.6
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	123.8	-52.8	2.3	-12.9	-0.1		0.0	5.9	32.4	0.0	6.7	39.0
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	126.8	-53.1	2.3	-13.0	-0.1		0.0	5.0	22.9	0.0	6.7	29.5
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	122.8	-52.8	1.9	-4.8	-0.3		0.0	1.1	30.6	0.0	6.7	37.3
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	121.6	-52.7	2.2	-4.5	-0.2		0.0	0.0	35.0	0.0	6.7	41.7
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	125.8	-53.0	2.3	-8.7	-0.2		0.0	0.3	22.1	0.0	6.7	28.8
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	135.4	-53.6	2.5	-18.0	-0.5		0.0	3.2	32.9	0.0	6.7	39.6
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	132.1	-53.4	2.5	-18.2	-0.4		0.0	9.9	45.0	0.0	6.7	51.7
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	131.0	-53.3	2.2	-4.9	-1.0		0.0	2.2	46.5	0.0	6.7	53.1
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	129.8	-53.3	2.5	-7.5	-0.6		0.0	1.1	46.9	0.0	6.7	53.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	127.6	-53.1	2.5	-17.1	-0.6		0.0	12.2	37.3	0.0	6.7	44.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	125.9	-53.0	2.5	-7.3	-0.6		0.0	0.2	35.4	0.0	6.7	42.1
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	115.9	-52.3	1.9	-2.8	-0.2		0.0	0.5	25.3	0.0	6.7	31.9
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	120.7	-52.6	2.2	-12.4	-0.1		0.0	6.6	15.6	0.0	6.7	22.3
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	118.2	-52.4	2.2	-11.5	-0.1		0.0	6.6	23.8	0.0	6.7	30.5
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	114.8	-52.2	2.2	-8.5	-0.1		0.0	2.6	17.4	0.0	6.7	24.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	117.6	-52.4	2.2	-3.0	-0.2		0.0	0.0	20.5	0.0	6.7	27.2
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	113.9	-52.1	2.2	-1.7	-0.2		0.0	0.0	27.3	0.0	6.7	33.9
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	111.3	-51.9	2.2	0.0	-0.2		0.0	0.0	23.5	0.0	6.7	30.1
Tank Farm Pump 1	CNEL	99.0	3	314.3	-60.9	3.7	-4.7	-1.8		0.0	0.0	35.3	0.0	6.7	41.9
Tank Farm Pump 2	CNEL	99.0	3	333.7	-61.5	3.8	-4.6	-2.0		0.0	0.0	34.8	0.0	6.7	41.5
Tank Farm Pump 3	CNEL	99.0	3	339.0	-61.6	3.9	-4.6	-2.0		0.0	0.0	34.6	0.0	6.7	41.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	124.6	-52.9	1.2	0.0	-1.8		0.0	0.2	59.1	-16.8	0.0	42.3
Vaporizer Blower 1	CNEL	88.7		125.1	-52.9	2.6	-18.2	-0.5		0.0	12.7	32.3	0.0	6.7	39.0
Vaporizer Blower 2	CNEL	88.7		125.5	-53.0	2.6	-17.6	-0.5		0.0	12.2	32.4	0.0	6.7	39.0
Vaporizer Inlet Silencer	CNEL	73.7		126.4	-53.0	2.2	-10.5	-0.2		0.0	6.2	18.5	0.0	6.7	25.1
Vaporizer Motor 1	CNEL	83.6		124.8	-52.9	2.6	-18.7	-0.7		0.0	13.5	27.3	0.0	6.7	34.0
Vaporizer Motor 2	CNEL	83.6		125.1	-52.9	2.6	-18.3	-0.7		0.0	13.0	27.3	0.0	6.7	34.0
Water Treatment Pumps P-056A&B	CNEL	93.0		106.6	-51.5	2.5	-8.0	-0.6		0.0	0.0	35.4	0.0	6.7	42.1
XF-1502 Splitter Area 1	CNEL	104.5		177.3	-56.0	2.3	0.0	-1.3	-0.01	-4.3	0.0	45.3	0.0	6.7	52.0
XF-1502 Splitter Area 2	CNEL	104.5		173.6	-55.8	2.3	0.0	-1.3		-4.3	0.0	45.5	0.0	6.7	52.2
XF-1504 Splitter Area 1	CNEL	104.5		177.7	-56.0	2.3	-4.0	-1.1	0.00	-4.0	0.0	41.8	0.0	6.7	48.4
XF-1504 Splitter Area 2	CNEL	104.5		174.0	-55.8	2.3	-4.3	-1.4		-4.3	0.0	41.1	0.0	6.7	47.7
XF 304, XF 321	CNEL	110.5	56	211.7	-57.5	2.1	-0.5	-0.9	-1.03	-3.2	0.2	49.7	0.0	6.7	56.4
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	2.2	-4.9	-1.0	-1.05	-3.7	0.1	46.0	0.0	6.7	52.7
XF 335-1, XF 335-2	CNEL	113.4	54	223.6	-58.0	2.2	-3.5	-1.0	-0.37	-3.1	0.4	50.0	0.0	6.7	56.7
XF 503	CNEL	113.0	21	158.1	-55.0	2.1	-0.1	-2.3	-1.05	-4.1	0.0	52.6	0.0	6.7	59.2
XF - 1601	CNEL	96.6		170.1	-55.6	2.3	0.0	-0.6		-2.6	0.0	40.1	0.0	6.7	46.8
XF - 1602	CNEL	96.6		171.4	-55.7	2.3	0.0	-0.6		-2.6	0.0	40.1	0.0	6.7	46.7
XF Module 1510	CNEL	108.3		169.4	-55.6	2.3	0.0	-1.2	-0.10	-4.3	0.0	49.5	0.0	6.7	56.1
XF Module 1519	CNEL	109.0		174.7	-55.8	2.3	0.0	-1.3	-0.21	-4.3	0.0	49.8	0.0	6.7	56.4
xxxx xxxx xxxx xxxx	CNEL		606								2.1				25.7
xxxx xxxx xxxx xxxx	CNEL		606								1.8				25.5
xxxx xxxx xxxx xxxx	CNEL		917								1.6				38.3
xxxx xxxx xxxx xxxx	CNEL		917								0.8				37.4
xxxx xxxx xxxx xxxx	CNEL		608								1.9				36.2
xxxx xxxx xxxx xxxx	CNEL		608								1.9				36.1
xxxx xxxx xxxx xxxx	CNEL		1172								3.0				43.6
xxxx xxxx xxxx xxxx	CNEL		520								2.6				24.3
xxxx xxxx xxxx xxxx	CNEL		572								1.5				40.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-3 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.2 dB(A) Ld 7-19 dB(A) Leq,N 64.9 dB(A) Le 19-22 dB(A) CNEL 71.6 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	136.4	-53.7	2.6	-0.4	0.0		0.0	0.0	42.0	0.0	6.7	48.6
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	82.3	-49.3	1.3	0.0	-1.7		0.0	0.1	59.3	-10.8	0.0	48.5
Air Compressor C 1	CNEL	110.0	5	221.6	-57.9	2.7	-8.8	-0.5	-1.23	0.0	1.8	46.0	0.0	6.7	52.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		120.4	-52.6	2.5	-17.7	-1.3		0.0	9.4	40.6	0.0	6.7	47.3
Asphalt Production	CNEL	113.8	1206	164.3	-55.3	2.4	-2.9	-2.2		0.0	0.3	56.2	0.0	6.7	62.9
BFW Pumps P-073A&B	CNEL	95.8		113.2	-52.1	2.5	-16.2	-0.6		0.0	6.9	36.3	0.0	6.7	43.0
Blower F 401	CNEL	113.0		109.7	-51.8	1.6	-12.8	-0.1		0.0	0.0	49.9	0.0	6.7	56.5
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.1	-58.8	2.4	0.0	-1.1		0.0	0.0	41.0	0.0	6.7	47.7
Brine Transfer P-085	CNEL	96.2		103.4	-51.3	2.5	-5.1	-0.9		0.0	0.0	41.4	0.0	6.7	48.1
Burner H301 North	CNEL	96.1	10	250.4	-59.0	2.7	-21.6	-1.3	-0.29	0.0	1.7	21.4	0.0	6.7	28.0
Burner H301 South	CNEL	95.9	10	247.1	-58.8	2.7	-8.2	-1.6	-1.05	0.0	0.6	32.5	0.0	6.7	39.2
Burner H302 North	CNEL	97.0	13	236.6	-58.5	2.6	-22.0	-1.2	-0.41	0.0	7.0	27.5	0.0	6.7	34.2
Burner H302 South	CNEL	97.0	13	233.8	-58.4	2.6	-10.4	-1.5	-0.65	0.0	1.6	33.3	0.0	6.7	40.0
Burner H303 North	CNEL	97.0	13	201.0	-57.1	2.5	-21.5	-1.1		0.0	11.3	34.2	0.0	6.7	40.9
Burner H303 South	CNEL	97.0	13	197.8	-56.9	2.5	-2.5	-1.6		0.0	0.1	41.5	0.0	6.7	48.2
Burner H304 North	CNEL	97.0	13	210.1	-57.4	2.6	-22.7	-1.3	-0.01	0.0	9.4	30.6	0.0	6.7	37.3
Burner H304 South	CNEL	97.0	13	206.8	-57.3	2.6	-12.5	-0.9		0.0	3.3	35.1	0.0	6.7	41.8
Burner H305 North	CNEL	96.3	11	218.1	-57.8	2.6	-22.7	-1.3	-0.02	0.0	13.1	33.2	0.0	6.7	39.9
Burner H305 South	CNEL	96.3	11	214.8	-57.6	2.6	-15.1	-1.1	-0.08	0.0	2.7	30.7	0.0	6.7	37.3
Burner H306 North	CNEL	95.0	8	226.6	-58.1	2.6	-22.0	-1.3	-0.28	0.0	11.5	30.5	0.0	6.7	37.2
Burner H306 South	CNEL	95.1	8	223.7	-58.0	2.6	-9.6	-1.4	-0.31	0.0	2.2	33.6	0.0	6.7	40.3
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.4	-54.9	2.3	-10.3	-0.7	-0.73	4.1	3.4	47.8	0.0	6.7	54.5
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	161.1	-55.1	2.3	-0.1	-1.3	-0.91	0.0	0.0	45.4	0.0	6.7	52.1
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.5	-55.5	2.3	-14.7	-0.5	-0.52	-7.8	9.0	38.7	0.0	6.7	45.4
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.6	-55.0	2.2	-10.9	-0.8	-0.20	0.7	0.0	46.6	0.0	6.7	53.3
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.1	-55.0	2.3	-8.7	-0.6	-0.79	0.4	0.2	41.5	0.0	6.7	48.2
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.2	-55.5	2.2	-13.0	-0.5		-6.1	1.8	29.4	0.0	6.7	36.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.4	-54.7	2.5	-13.7	-0.3		-2.5	0.0	29.1	0.0	6.7	35.7
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.1	-54.6	2.5	0.0	-1.1		1.6	0.0	46.2	0.0	6.7	52.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.6	-54.9	2.5	-9.2	-0.6		-4.9	5.7	39.2	0.0	6.7	45.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.5	-0.9	-1.1		4.7	0.0	51.2	0.0	6.7	57.9
Cooling Tower M 512	CNEL	95.7		146.3	-54.3	2.6	-5.5	-0.7		0.0	0.4	38.2	0.0	6.7	44.8
Cooling Tower M 513	CNEL	95.7		146.0	-54.3	2.6	0.0	-0.8		0.0	2.4	45.6	0.0	6.7	52.3
Cooling Tower M 514	CNEL	95.7		146.3	-54.3	2.6	-8.7	-0.6		0.0	0.7	35.3	0.0	6.7	42.0
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	250.2	-59.0	2.6	-4.1	-2.3		0.0	0.4	51.4	0.0	6.7	58.1
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	250.2	-59.0	2.6	-3.6	-2.4		0.0	0.1	51.4	0.0	6.7	58.1
CT Y-600-CT Y-600 North	CNEL	96.4	51	191.8	-56.6	2.1	-6.4	-0.7		0.0	0.0	37.7	0.0	6.7	44.4
CT Y-600-CT Y-600 South	CNEL	96.4	52	193.2	-56.7	1.9	-6.2	-0.9		0.0	0.0	37.6	0.0	6.7	44.3
Deaerator Skid P-058A&B	CNEL	96.2		122.7	-52.8	2.1	0.0	-1.2		0.0	0.0	44.4	0.0	6.7	51.0
Exhaust Stack	CNEL	100.6		109.2	-51.8	2.1	0.0	-0.2		0.0	0.0	50.7	0.0	6.7	57.4
F.G. After Cooler XF-083ABC	CNEL	100.2		133.3	-53.5	2.5	-9.0	-0.3		0.0	4.5	44.4	0.0	6.7	51.1
Fan Y-600	CNEL	107.5		192.3	-56.7	1.7	-8.9	-0.5		0.0	0.0	43.2	0.0	6.7	49.9
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	141.9	-54.0	1.9	-4.7	-0.1		0.0	0.1	25.5	0.0	6.7	32.2
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	147.2	-54.4	2.5	-7.9	-0.1		0.0	0.0	20.9	0.0	6.7	27.6
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	145.8	-54.3	2.6	-13.4	-0.9		0.0	0.0	8.2	0.0	6.7	14.9
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	143.5	-54.1	2.4	-9.5	-0.1		0.0	0.3	22.8	0.0	6.7	29.4
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	139.7	-53.9	2.5	0.0	-0.1		0.0	0.0	23.4	0.0	6.7	30.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	136.3	-53.7	2.4	-5.2	-0.1		0.0	0.1	24.3	0.0	6.7	31.0
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	135.3	-53.6	2.6	-13.3	-0.7		0.0	7.1	16.1	0.0	6.7	22.8
Fin Fan XF 616 - Above	CNEL	96.0	75	220.9	-57.9	1.9	0.0	-0.5		-11.6	0.0	27.9	0.0	6.7	34.6
Fin Fan XF 616 - Below	CNEL	108.0	75	220.9	-57.9	1.9	0.0	-0.8		-8.0	0.0	43.3	0.0	6.7	49.9
Fin Fan XF 617 - Above	CNEL	93.0	21	229.0	-58.2	1.9	0.0	-0.5		-11.7	0.0	24.5	0.0	6.7	31.2
Fin Fan XF 617 - Below	CNEL	104.0	21	229.0	-58.2	2.0	0.0	-0.8		-7.9	0.0	39.0	0.0	6.7	45.7
Heater # 5-Heater	CNEL	91.1	13	248.7	-58.9	2.4	-11.1	-0.5		0.0	0.0	26.0	0.0	6.7	32.7
Heater # 5-Heater	CNEL	91.1	13	243.7	-58.7	2.4	-9.3	-0.5		0.0	0.0	27.9	0.0	6.7	34.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	238.7	-58.5	2.4	-6.1	-0.8		0.0	0.0	31.1	0.0	6.7	37.8
Heater H 601	CNEL	89.1	13	231.7	-58.3	2.4	-0.1	-1.2		0.0	0.0	31.8	0.0	6.7	38.5
Hydro Heater H-402	CNEL	98.1		145.9	-54.3	2.6	-1.8	-0.5		0.0	0.0	44.0	0.0	6.7	50.7
ID Fan	CNEL	110.3		227.6	-58.1	2.6	-17.2	-0.4		0.0	4.2	41.4	0.0	6.7	48.0
ID Fan 200 HP Motor	CNEL	104.4		226.0	-58.1	2.6	-22.7	-1.4		0.0	1.4	26.2	0.0	6.7	32.8
Incinirator Compressor & Motor	CNEL	92.5		322.5	-61.2	2.8	-3.6	-1.2		0.0	0.0	29.3	0.0	6.7	36.0
Incinirator Fin Fan	CNEL	94.8		321.6	-61.1	2.8	-3.4	-1.1		0.0	0.0	31.9	0.0	6.7	38.6
Lub Oil Cooler XF-061	CNEL	100.5		129.0	-53.2	2.6	-14.6	-0.2		0.0	11.9	47.0	0.0	6.7	53.7
Misc pumps motors	CNEL	100.2	332	218.0	-57.8	2.8	-11.4	-1.4		0.0	3.9	36.3	0.0	6.7	42.9
Motor & Pump P 56A/B	CNEL	93.7		162.5	-55.2	2.6	-4.9	-1.0	-1.15	0.0	0.0	33.9	0.0	6.7	40.6
Motor & Pump P 120/121	CNEL	96.2	2	208.8	-57.4	2.7	-15.7	-0.7	-1.21	0.0	4.0	27.8	0.0	6.7	34.5
Motor & Pump P 211/212	CNEL	93.7		141.8	-54.0	2.5	-4.4	-1.3	-0.61	0.0	0.4	36.2	0.0	6.7	42.9
Motor & Pump P 215/214	CNEL	94.6		146.8	-54.3	2.5	-6.8	-0.9	-0.75	0.0	1.4	35.8	0.0	6.7	42.5
Motor & Pump P 216	CNEL	98.3		144.1	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.3	44.9	0.0	6.7	51.6
Motor & Pump P 217/218	CNEL	93.7		143.7	-54.1	2.5	-4.7	-1.2	-0.66	0.0	0.4	35.8	0.0	6.7	42.4
Motor & Pump P 300	CNEL	97.1	2	213.2	-57.6	2.7	-10.6	-0.7	-1.22	0.0	0.0	29.7	0.0	6.7	36.4
Motor & Pump P 301	CNEL	102.1	2	211.6	-57.5	2.7	-9.6	-0.8	-1.21	0.0	0.0	35.7	0.0	6.7	42.3
Motor & Pump P 302	CNEL	97.1	2	215.0	-57.6	2.7	-11.3	-0.7	-1.22	0.0	0.1	29.0	0.0	6.7	35.6
Motor & Pump P 303	CNEL	97.1	2	216.5	-57.7	2.7	-11.4	-0.7	-1.22	0.0	0.1	28.9	0.0	6.7	35.6
Motor & Pump P 305	CNEL	97.5	2	217.9	-57.8	2.7	-11.4	-0.7	-1.22	0.0	0.0	29.1	0.0	6.7	35.8
Motor & Pump P 306	CNEL	112.6	4	226.8	-58.1	2.7	-11.8	-0.7	-0.97	0.0	0.2	43.9	0.0	6.7	50.6
Motor & Pump P 307	CNEL	102.1	2	206.8	-57.3	2.7	-4.2	-1.0	-1.19	0.0	0.0	41.1	0.0	6.7	47.8
Motor & Pump P 309	CNEL	97.5	2	219.4	-57.8	2.7	-11.5	-0.7	-1.22	0.0	0.0	28.9	0.0	6.7	35.6
Motor & Pump P 312	CNEL	101.5	2	185.3	-56.4	2.6	-3.7	-0.9	-1.19	0.0	1.5	43.5	0.0	6.7	50.1
Motor & Pump P 313	CNEL	101.5	2	183.6	-56.3	2.6	-3.7	-0.9	-1.19	0.0	1.5	43.6	0.0	6.7	50.2
Motor & Pump P 315	CNEL	102.9	2	177.4	-56.0	2.6	-3.4	-0.8	-1.20	0.0	1.0	45.1	0.0	6.7	51.8
Motor & Pump P 316	CNEL	102.9	2	175.4	-55.9	2.6	-3.4	-0.8	-1.20	0.0	0.7	44.9	0.0	6.7	51.6
Motor & Pump P 317	CNEL	102.9	2	173.5	-55.8	2.6	-3.4	-0.8	-1.20	0.0	0.4	44.7	0.0	6.7	51.4
Motor & Pump P 318	CNEL	100.2	1	179.2	-56.1	2.6	-3.6	-0.9	-1.19	0.0	1.3	42.4	0.0	6.7	49.0
Motor & Pump P 319	CNEL	100.2	1	180.6	-56.1	2.6	-3.6	-0.9	-1.19	0.0	1.3	42.3	0.0	6.7	49.0
Motor & Pump P 327	CNEL	111.2	3	234.8	-58.4	2.7	-20.6	-1.3		0.0	1.0	34.7	0.0	6.7	41.3
Motor & Pump P 328	CNEL	109.9	5	221.1	-57.9	2.7	-11.5	-0.7	-1.07	0.0	0.0	41.6	0.0	6.7	48.2
Motor & Pump P 329	CNEL	110.2	5	224.0	-58.0	2.7	-12.1	-0.8	-0.97	0.0	0.1	41.1	0.0	6.7	47.8
Motor & Pump P 451	CNEL	93.7		139.0	-53.8	2.5	-9.1	-0.8		0.0	0.0	32.5	0.0	6.7	39.1
Motor & Pump P 453	CNEL	93.7		127.1	-53.1	2.5	-5.9	-0.8		0.0	0.0	36.4	0.0	6.7	43.1
Motor & Pump P 454	CNEL	93.7		139.5	-53.9	2.5	0.0	-1.4		0.0	0.0	41.0	0.0	6.7	47.6
Motor & Pump P 457	CNEL	93.7		125.6	-53.0	2.5	-6.0	-0.8		0.0	0.0	36.4	0.0	6.7	43.1
Motor & Pump P 458	CNEL	93.7		138.9	-53.8	2.5	-11.7	-0.6		0.0	0.0	30.1	0.0	6.7	36.8
Motor & Pump P 459	CNEL	93.7		140.5	-53.9	2.5	0.0	-1.4		0.0	0.0	40.9	0.0	6.7	47.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.4	-55.5	2.6	-8.9	-0.9		0.0	0.0	33.6	0.0	6.7	40.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		169.1	-55.6	2.6	-7.1	-1.0		0.0	0.0	35.2	0.0	6.7	41.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.8	-57.1	2.7	-3.2	-1.5	-0.81	0.0	0.0	35.4	0.0	6.7	42.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		204.0	-57.2	2.7	-3.1	-1.5	-0.83	0.0	0.0	35.5	0.0	6.7	42.1
Motor & Pump P 1601 A	CNEL	96.3	2	170.9	-55.6	2.7	-8.8	-1.0		0.0	0.0	33.5	0.0	6.7	40.2
Motor & Pump P 1601 B	CNEL	96.3	2	171.2	-55.7	2.7	-12.2	-0.9		0.0	0.0	30.2	0.0	6.7	36.9
Motor & Pump P 1602 A	CNEL	96.3	2	171.2	-55.7	2.7	-13.8	-0.9		0.0	0.0	28.6	0.0	6.7	35.3
Motor & Pump P 1602 B	CNEL	96.5	2	171.5	-55.7	2.7	-14.9	-0.9		0.0	0.0	27.6	0.0	6.7	34.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.4	-55.5	2.7	-11.7	-0.8	-0.08	0.0	0.0	31.1	0.0	6.7	37.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.3	-55.8	2.7	-9.8	-0.9	-0.19	0.0	0.0	32.6	0.0	6.7	39.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.7	-55.9	2.7	-9.0	-0.9	-0.24	0.0	0.0	33.2	0.0	6.7	39.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.6	-55.6	2.7	-4.7	-1.2		0.0	0.0	37.8	0.0	6.7	44.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.4	-55.7	2.7	-4.4	-1.2		0.0	0.0	38.0	0.0	6.7	44.7
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.4	-56.2	2.7	-17.1	-0.9	-0.21	0.0	0.0	24.6	0.0	6.7	31.3
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.2	-56.2	2.7	-9.9	-0.9	-0.35	0.0	0.0	31.6	0.0	6.7	38.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	2.7	-8.2	-1.0	-0.35	0.0	0.0	33.4	0.0	6.7	40.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.9	-56.1	2.7	-9.4	-0.9	-0.35	0.0	0.0	32.2	0.0	6.7	38.9
P602 100 HP	CNEL	94.1		216.9	-57.7	2.4	-11.8	-0.6		0.0	0.0	26.4	0.0	6.7	33.1
P603 60 HP	CNEL	95.0		211.4	-57.5	2.4	-14.1	-1.0		0.0	0.1	25.0	0.0	6.7	31.6
P605 40 HP	CNEL	95.0		212.8	-57.6	2.4	-14.0	-0.9		0.0	0.1	25.0	0.0	6.7	31.7
P607 15 HP	CNEL	90.5		222.5	-57.9	2.4	-11.8	-0.7		0.0	0.6	23.0	0.0	6.7	29.7
P608 15 HP	CNEL	90.5		225.3	-58.0	2.4	-14.1	-0.7		0.0	0.0	20.1	0.0	6.7	26.7
P611 15 HP	CNEL	90.5		219.7	-57.8	2.4	-12.2	-0.7		0.0	0.1	22.2	0.0	6.7	28.9
P614/615 20 HP	CNEL	93.0		214.4	-57.6	2.4	-15.5	-0.7		0.0	0.2	21.8	0.0	6.7	28.5

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.2	-50.0	0.8	-0.1	-0.3		0.0	0.2	85.3	-38.6	0.0	46.7
Scanner Blower C-084A/B	CNEL	95.5		123.1	-52.8	2.6	-7.1	-0.5		0.0	2.5	40.3	0.0	6.7	47.0
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	113.1	-52.1	2.4	-7.9	-0.1		0.0	0.1	14.0	0.0	6.7	20.7
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	111.2	-51.9	2.4	-5.8	-0.1		0.0	0.0	14.4	0.0	6.7	21.1
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	111.3	-51.9	1.9	-4.7	-0.1		0.0	0.6	15.3	0.0	6.7	22.0
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	110.5	-51.9	2.6	0.0	-0.1		0.0	0.0	22.1	0.0	6.7	28.8
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	109.5	-51.8	2.5	0.0	-0.2		0.0	0.0	22.4	0.0	6.7	29.1
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	125.2	-52.9	2.4	-11.3	-0.2		0.0	0.3	18.5	0.0	6.7	25.1
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	126.7	-53.1	2.4	-12.8	-0.1		0.0	0.8	16.5	0.0	6.7	23.1
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	123.9	-52.9	2.4	-12.6	-0.1		0.0	7.6	34.5	0.0	6.7	41.2
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	127.0	-53.1	2.4	-12.5	-0.1		0.0	6.1	24.5	0.0	6.7	31.2
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	122.9	-52.8	2.0	-4.7	-0.3		0.0	1.0	30.7	0.0	6.7	37.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	121.7	-52.7	2.3	-4.3	-0.2		0.0	0.0	35.3	0.0	6.7	42.0
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	126.0	-53.0	2.4	-7.9	-0.2		0.0	0.3	23.1	0.0	6.7	29.7
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	135.5	-53.6	2.6	-17.8	-0.5		0.0	3.4	33.4	0.0	6.7	40.1
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	132.2	-53.4	2.5	-15.4	-0.5		0.0	9.1	47.0	0.0	6.7	53.7
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	131.1	-53.3	2.2	-4.0	-1.0		0.0	1.8	47.0	0.0	6.7	53.7
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	130.0	-53.3	2.5	-6.6	-0.7		0.0	1.2	47.7	0.0	6.7	54.4
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	127.8	-53.1	2.5	-17.0	-0.6		0.0	14.0	39.3	0.0	6.7	45.9
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	126.1	-53.0	2.5	-6.4	-0.7		0.0	0.2	36.2	0.0	6.7	42.9
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	116.0	-52.3	2.0	-4.7	-0.2		0.0	0.8	23.7	0.0	6.7	30.3
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	120.9	-52.6	2.4	-11.4	-0.1		0.0	5.7	15.8	0.0	6.7	22.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	118.4	-52.5	2.3	-11.0	-0.1		0.0	6.2	23.9	0.0	6.7	30.6
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	115.0	-52.2	2.3	-8.5	-0.1		0.0	2.5	17.5	0.0	6.7	24.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	117.8	-52.4	2.3	-3.1	-0.2		0.0	0.0	20.5	0.0	6.7	27.2
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	114.0	-52.1	2.3	-1.6	-0.1		0.0	0.0	27.5	0.0	6.7	34.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	111.4	-51.9	2.3	0.0	-0.2		0.0	0.0	23.6	0.0	6.7	30.2
Tank Farm Pump 1	CNEL	99.0	3	314.3	-60.9	3.1	-3.6	-2.0		0.0	0.0	35.5	0.0	6.7	42.2
Tank Farm Pump 2	CNEL	99.0	3	333.7	-61.5	3.2	-3.7	-2.2		0.0	0.0	34.8	0.0	6.7	41.5
Tank Farm Pump 3	CNEL	99.0	3	339.1	-61.6	3.3	-3.9	-2.2		0.0	0.0	34.6	0.0	6.7	41.2
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	125.0	-52.9	1.2	0.0	-1.8		0.0	0.2	59.1	-16.8	0.0	42.2
Vaporizer Blower 1	CNEL	88.7		125.3	-53.0	2.6	-18.1	-0.5		0.0	15.9	35.7	0.0	6.7	42.3
Vaporizer Blower 2	CNEL	88.7		125.6	-53.0	2.6	-17.4	-0.5		0.0	15.3	35.7	0.0	6.7	42.4
Vaporizer Inlet Silencer	CNEL	73.7		126.5	-53.0	2.4	-10.1	-0.2		0.0	7.1	19.9	0.0	6.7	26.6
Vaporizer Motor 1	CNEL	83.6		125.0	-52.9	2.6	-18.7	-0.7		0.0	16.9	30.8	0.0	6.7	37.4
Vaporizer Motor 2	CNEL	83.6		125.3	-52.9	2.6	-18.1	-0.7		0.0	16.4	30.8	0.0	6.7	37.5
Water Treatment Pumps P-056A&B	CNEL	93.0		106.8	-51.6	2.5	-7.9	-0.6		0.0	0.0	35.4	0.0	6.7	42.1
XF-1502 Splitter Area 1	CNEL	104.5		177.3	-56.0	2.4	0.0	-1.3	0.00	-4.2	0.0	45.4	0.0	6.7	52.0
XF-1502 Splitter Area 2	CNEL	104.5		173.5	-55.8	2.3	0.0	-1.3		-4.2	0.0	45.6	0.0	6.7	52.2
XF-1504 Splitter Area 1	CNEL	104.5		177.7	-56.0	2.4	-4.0	-1.1	0.00	-3.9	0.0	41.8	0.0	6.7	48.5
XF-1504 Splitter Area 2	CNEL	104.5		173.9	-55.8	2.3	-1.2	-1.5		-4.5	0.0	43.8	0.0	6.7	50.5
XF 304, XF 321	CNEL	110.5	56	211.7	-57.5	2.3	-0.3	-0.8		-2.9	0.2	51.4	0.0	6.7	58.1
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	2.4	-4.9	-0.9	-0.50	-3.6	0.0	46.8	0.0	6.7	53.5
XF 335-1, XF 335-2	CNEL	113.4	54	223.6	-58.0	2.3	-3.3	-1.0	0.00	-2.9	0.4	50.9	0.0	6.7	57.6
XF 503	CNEL	113.0	21	158.1	-55.0	2.1	0.0	-2.3	-1.05	-3.9	0.0	52.9	0.0	6.7	59.6
XF - 1601	CNEL	96.6		170.0	-55.6	2.4	0.0	-0.6		-2.5	0.0	40.2	0.0	6.7	46.9
XF - 1602	CNEL	96.6		171.3	-55.7	2.4	0.0	-0.6		-2.5	0.0	40.2	0.0	6.7	46.8
XF Module 1510	CNEL	108.3		169.3	-55.6	2.3	0.0	-1.2	-0.10	-4.2	0.0	49.5	0.0	6.7	56.2
XF Module 1519	CNEL	109.0		174.7	-55.8	2.3	0.0	-1.3	-0.21	-4.2	0.0	49.8	0.0	6.7	56.5
xxxx xxxx xxxx xxxx	CNEL		606								2.2				26.8
xxxx xxxx xxxx xxxx	CNEL		606								1.9				26.6
xxxx xxxx xxxx xxxx	CNEL		917								1.5				39.2
xxxx xxxx xxxx xxxx	CNEL		917								0.6				38.5
xxxx xxxx xxxx xxxx	CNEL		608								1.7				37.2
xxxx xxxx xxxx xxxx	CNEL		608								1.9				37.5
xxxx xxxx xxxx xxxx	CNEL		1172								3.2				44.5
xxxx xxxx xxxx xxxx	CNEL		520								2.4				25.3
xxxx xxxx xxxx xxxx	CNEL		572								1.9				41.5

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 63.4 dB(A)			Ld 7-19 dB(A)		Leq,N 63.0 dB(A)		Le 19-22 dB(A)		CNEL 69.7 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	130.1	-53.3	2.3	-1.0	0.0		0.0	0.0	41.4	0.0	6.7	48.1
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	79.7	-49.0	1.2	-0.2	-1.8		0.0	0.1	59.4	-10.8	0.0	48.6
Air Compressor C 1	CNEL	110.0	5	248.8	-58.9	3.1	-5.3	-1.0	-0.60	0.0	0.7	47.8	0.0	6.7	54.5
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		112.2	-52.0	2.2	-18.8	-1.6		0.0	7.5	37.7	0.0	6.7	44.3
Asphalt Production	CNEL	113.8	1206	139.3	-53.9	1.6	-2.4	-1.9		0.0	0.7	58.0	0.0	6.7	64.7
BFW Pumps P-073A&B	CNEL	95.8		107.9	-51.7	2.3	-18.1	-0.8		0.0	0.6	28.1	0.0	6.7	34.8
Blower F 401	CNEL	113.0		139.7	-53.9	0.1	-12.6	-0.2		0.0	0.0	46.4	0.0	6.7	53.1
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.7	-57.4	1.9	-1.1	-1.3		0.0	0.0	40.7	0.0	6.7	47.4
Brine Transfer P-085	CNEL	96.2		102.1	-51.2	2.7	-12.8	-0.6		0.0	0.2	34.6	0.0	6.7	41.3
Burner H301 North	CNEL	96.1	10	282.5	-60.0	3.1	-22.0	-1.5	-1.14	0.0	1.3	18.9	0.0	6.7	25.5
Burner H301 South	CNEL	95.9	10	279.3	-59.9	3.1	-13.1	-1.2	-1.07	0.0	0.4	27.2	0.0	6.7	33.8
Burner H302 North	CNEL	97.0	13	269.3	-59.6	3.0	-22.3	-1.5	-0.92	0.0	1.8	20.4	0.0	6.7	27.1
Burner H302 South	CNEL	97.0	13	266.7	-59.5	3.0	-14.4	-1.1	-1.08	0.0	1.1	28.0	0.0	6.7	34.7
Burner H303 North	CNEL	97.0	13	235.4	-58.4	2.7	-22.8	-1.4	-0.14	0.0	8.2	28.1	0.0	6.7	34.8
Burner H303 South	CNEL	97.0	13	232.3	-58.3	2.6	-7.3	-1.3	-0.04	0.0	0.1	35.8	0.0	6.7	42.4
Burner H304 North	CNEL	97.0	13	244.0	-58.7	2.8	-22.8	-1.4	-0.25	0.0	6.8	26.4	0.0	6.7	33.0
Burner H304 South	CNEL	97.0	13	240.9	-58.6	2.7	-15.4	-1.0	-0.40	0.0	2.9	30.2	0.0	6.7	36.9
Burner H305 North	CNEL	96.3	11	251.6	-59.0	2.8	-22.3	-1.4	-0.68	0.0	8.4	27.2	0.0	6.7	33.9
Burner H305 South	CNEL	96.3	11	248.4	-58.9	2.8	-17.3	-1.1	-0.42	0.0	2.3	26.8	0.0	6.7	33.5
Burner H306 North	CNEL	95.0	8	259.6	-59.3	2.9	-22.2	-1.4	-0.93	0.0	7.6	24.7	0.0	6.7	31.4
Burner H306 South	CNEL	95.1	8	256.8	-59.2	2.9	-12.5	-1.1	-1.02	0.0	0.7	28.0	0.0	6.7	34.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.7	-56.6	1.4	-11.8	-0.8	-0.82	3.3	1.7	41.2	0.0	6.7	47.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	1.6	-4.6	-1.4	-1.02	0.0	0.8	39.3	0.0	6.7	46.0
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.3	-57.0	1.5	-18.1	-0.5	-0.69	-7.8	10.6	34.5	0.0	6.7	41.2
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.1	-56.7	1.3	-11.2	-1.0	-0.40	1.2	0.0	44.0	0.0	6.7	50.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	1.4	-12.7	-0.7	-0.76	0.9	0.5	35.9	0.0	6.7	42.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	1.5	-15.6	-0.5	-0.04	-6.9	0.2	22.0	0.0	6.7	28.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.7	-55.7	2.2	0.0	-1.3		2.3	0.0	45.2	0.0	6.7	51.9
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.0	-55.8	2.0	-10.2	-0.6		-2.8	0.0	30.4	0.0	6.7	37.1
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.4	-55.7	1.9	-5.6	-1.0		-1.4	0.0	38.8	0.0	6.7	45.5
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.1	-55.7	1.9	-4.7	-1.2		-0.6	0.0	40.4	0.0	6.7	47.1
Cooling Tower M 512	CNEL	95.7		166.9	-55.4	2.9	-14.6	-0.6		0.0	0.7	28.6	0.0	6.7	35.3
Cooling Tower M 513	CNEL	95.7		166.9	-55.4	2.8	-14.6	-0.6		0.0	0.7	28.5	0.0	6.7	35.2
Cooling Tower M 514	CNEL	95.7		166.6	-55.4	2.9	-11.8	-0.7		0.0	0.4	31.1	0.0	6.7	37.8
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	216.3	-57.7	3.1	-6.0	-2.4		0.0	0.2	50.9	0.0	6.7	57.6
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	216.3	-57.7	2.3	-5.4	-2.3		0.0	0.3	50.9	0.0	6.7	57.6
CT Y-600-CT Y-600 North	CNEL	96.4	51	156.7	-54.9	1.2	-12.4	-0.5		0.0	0.0	32.8	0.0	6.7	39.5
CT Y-600-CT Y-600 South	CNEL	96.4	52	156.6	-54.9	1.0	-4.8	-1.2		0.0	0.0	39.5	0.0	6.7	46.2
Deaerator Skid P-058A&B	CNEL	96.2		119.5	-52.5	1.7	-0.2	-1.3		0.0	0.6	44.4	0.0	6.7	51.1
Exhaust Stack	CNEL	100.6		112.7	-52.0	1.1	0.0	-0.2		-0.1	0.0	49.4	0.0	6.7	56.1
F.G. After Cooler XF-083ABC	CNEL	100.2		121.9	-52.7	1.5	-11.0	-0.2		0.0	2.0	39.8	0.0	6.7	46.5
Fan Y-600	CNEL	107.5		156.7	-54.9	0.5	-9.6	-0.4		0.0	0.0	43.1	0.0	6.7	49.8
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	129.5	-53.2	0.9	-4.2	-0.1		0.0	0.1	25.8	0.0	6.7	32.5
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	132.8	-53.5	1.7	-7.1	0.0		0.0	0.0	21.8	0.0	6.7	28.5
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	130.8	-53.3	2.3	-12.7	-0.8		0.0	0.1	9.7	0.0	6.7	16.4
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	131.0	-53.3	1.6	-9.9	0.0		0.0	0.1	22.2	0.0	6.7	28.9
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	125.7	-53.0	1.6	0.0	-0.1		0.0	0.0	23.5	0.0	6.7	30.2
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	124.2	-52.9	1.5	-5.1	-0.1		0.0	0.0	24.3	0.0	6.7	31.0
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	122.9	-52.8	2.2	-12.8	-0.7		0.0	3.4	13.5	0.0	6.7	20.2
Fin Fan XF 616 - Above	CNEL	96.0	75	185.5	-56.4	0.3	-0.1	-0.5		-14.0	0.0	25.4	0.0	6.7	32.1
Fin Fan XF 616 - Below	CNEL	108.0	75	185.5	-56.4	0.4	-0.3	-0.8		-6.7	0.0	44.3	0.0	6.7	51.0
Fin Fan XF 617 - Above	CNEL	93.0	21	193.6	-56.7	0.3	-0.1	-0.5		-14.0	0.0	22.0	0.0	6.7	28.7
Fin Fan XF 617 - Below	CNEL	104.0	21	193.6	-56.7	0.5	-0.4	-0.9		-6.7	0.0	39.7	0.0	6.7	46.4
Heater # 5-Heater	CNEL	91.1	13	211.5	-57.5	2.0	-9.2	-0.6		0.0	0.0	28.8	0.0	6.7	35.5
Heater # 5-Heater	CNEL	91.1	13	206.5	-57.3	2.0	-7.9	-0.6		0.0	0.0	30.3	0.0	6.7	36.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	201.5	-57.1	1.9	-5.3	-0.9		0.0	0.0	32.7	0.0	6.7	39.4
Heater H 601	CNEL	89.1	13	194.2	-56.8	1.6	-0.9	-1.4		0.0	0.1	31.7	0.0	6.7	38.4
Hydro Heater H-402	CNEL	98.1		172.0	-55.7	1.7	-3.9	-0.6		0.0	0.7	40.3	0.0	6.7	47.0
ID Fan	CNEL	110.3		262.3	-59.4	1.7	-18.5	-0.5		0.0	5.5	39.1	0.0	6.7	45.7
ID Fan 200 HP Motor	CNEL	104.4		260.7	-59.3	3.0	-23.2	-1.8		0.0	3.7	26.7	0.0	6.7	33.4
Incinirator Compressor & Motor	CNEL	92.5		284.2	-60.1	2.7	-4.6	-1.4		0.0	0.0	29.0	0.0	6.7	35.7
Incinirator Fin Fan	CNEL	94.8		283.3	-60.0	2.9	-4.6	-1.2		0.0	0.0	31.8	0.0	6.7	38.5
Lub Oil Cooler XF-061	CNEL	100.5		124.8	-52.9	1.8	-18.5	-0.2		0.0	5.8	36.5	0.0	6.7	43.1
Misc pumps motors	CNEL	100.2	332	214.7	-57.6	3.3	-14.7	-1.0		0.0	2.7	32.8	0.0	6.7	39.5
Motor & Pump P 56A/B	CNEL	93.7		189.6	-56.5	2.9	-3.9	-1.4	-0.47	0.0	0.0	34.2	0.0	6.7	40.9
Motor & Pump P 120/121	CNEL	96.2	2	236.3	-58.5	3.3	-16.4	-0.8	-0.80	0.0	0.0	23.1	0.0	6.7	29.7
Motor & Pump P 211/212	CNEL	93.7		173.0	-55.8	2.7	-8.1	-1.1	-0.65	0.0	0.0	30.7	0.0	6.7	37.4
Motor & Pump P 215/214	CNEL	94.6		177.8	-56.0	2.8	-11.7	-0.9	-0.78	0.0	0.0	28.0	0.0	6.7	34.7
Motor & Pump P 216	CNEL	98.3		176.3	-55.9	2.5	-5.1	-1.5	-0.67	0.0	0.9	38.6	0.0	6.7	45.3
Motor & Pump P 217/218	CNEL	93.7		174.8	-55.8	3.1	-8.9	-1.0	-0.70	0.0	0.0	30.2	0.0	6.7	36.9
Motor & Pump P 300	CNEL	97.1	2	242.1	-58.7	3.3	-17.7	-0.9	-1.03	0.0	0.3	22.5	0.0	6.7	29.2
Motor & Pump P 301	CNEL	102.1	2	240.5	-58.6	3.3	-17.5	-0.9	-1.05	0.0	0.1	27.5	0.0	6.7	34.1
Motor & Pump P 302	CNEL	97.1	2	243.8	-58.7	3.3	-17.6	-0.8	-1.00	0.0	0.8	23.0	0.0	6.7	29.7
Motor & Pump P 303	CNEL	97.1	2	245.3	-58.8	3.3	-17.4	-0.8	-0.98	0.0	1.0	23.4	0.0	6.7	30.0
Motor & Pump P 305	CNEL	97.5	2	246.7	-58.8	3.3	-17.3	-0.8	-0.96	0.0	1.4	24.3	0.0	6.7	31.0
Motor & Pump P 306	CNEL	112.6	4	255.3	-59.1	2.8	-15.8	-0.8	-0.88	0.0	0.9	39.8	0.0	6.7	46.4
Motor & Pump P 307	CNEL	102.1	2	235.9	-58.4	3.2	-16.0	-0.8	-1.13	0.0	0.0	29.0	0.0	6.7	35.7
Motor & Pump P 309	CNEL	97.5	2	248.1	-58.9	3.3	-17.1	-0.8	-0.94	0.0	1.5	24.5	0.0	6.7	31.2
Motor & Pump P 312	CNEL	101.5	2	215.2	-57.7	3.2	-3.0	-1.0	-1.23	0.0	0.2	42.0	0.0	6.7	48.7
Motor & Pump P 313	CNEL	101.5	2	213.6	-57.6	3.2	-3.4	-1.0	-1.24	0.0	0.3	41.8	0.0	6.7	48.4
Motor & Pump P 315	CNEL	102.9	2	207.6	-57.3	3.0	-4.4	-0.9	-1.24	0.0	0.7	42.7	0.0	6.7	49.3
Motor & Pump P 316	CNEL	102.9	2	205.8	-57.3	3.0	-4.6	-0.9	-1.25	0.0	0.8	42.7	0.0	6.7	49.3
Motor & Pump P 317	CNEL	102.9	2	203.9	-57.2	2.9	-4.7	-0.9	-1.25	0.0	0.9	42.7	0.0	6.7	49.3
Motor & Pump P 318	CNEL	100.2	1	209.3	-57.4	3.2	-4.2	-0.9	-1.24	0.0	0.2	39.9	0.0	6.7	46.5
Motor & Pump P 319	CNEL	100.2	1	210.7	-57.5	3.2	-4.0	-0.9	-1.24	0.0	0.3	40.1	0.0	6.7	46.8
Motor & Pump P 327	CNEL	111.2	3	263.1	-59.4	3.6	-21.7	-1.5	-0.74	0.0	2.8	34.3	0.0	6.7	40.9
Motor & Pump P 328	CNEL	109.9	5	249.7	-58.9	3.2	-16.5	-0.8	-0.91	0.0	0.4	36.4	0.0	6.7	43.0
Motor & Pump P 329	CNEL	110.2	5	252.5	-59.0	3.3	-16.7	-0.9	-0.84	0.0	0.8	36.7	0.0	6.7	43.4
Motor & Pump P 451	CNEL	93.7		165.1	-55.3	2.7	-6.8	-1.1		0.0	0.0	33.0	0.0	6.7	39.7
Motor & Pump P 453	CNEL	93.7		153.1	-54.7	2.5	0.0	-1.5		0.0	0.0	40.0	0.0	6.7	46.6
Motor & Pump P 454	CNEL	93.7		165.9	-55.4	2.7	-6.3	-1.0		0.0	2.5	36.1	0.0	6.7	42.8
Motor & Pump P 457	CNEL	93.7		151.6	-54.6	2.5	0.0	-1.5		0.0	0.0	40.0	0.0	6.7	46.7
Motor & Pump P 458	CNEL	93.7		164.8	-55.3	2.7	-3.9	-1.2		0.0	0.0	35.8	0.0	6.7	42.5
Motor & Pump P 459	CNEL	93.7		166.9	-55.4	2.7	-6.3	-1.0		0.0	2.5	36.1	0.0	6.7	42.8
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.1	-56.6	3.2	-10.3	-0.9		0.0	0.0	31.6	0.0	6.7	38.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.8	-56.6	3.2	-6.7	-1.2		0.0	0.0	34.8	0.0	6.7	41.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.8	-58.0	3.5	-11.8	-1.2	-0.83	0.0	0.0	27.1	0.0	6.7	33.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		224.9	-58.0	3.5	-11.6	-1.2	-0.86	0.0	0.0	27.2	0.0	6.7	33.9
Motor & Pump P 1601 A	CNEL	96.3	2	188.2	-56.5	3.0	-18.2	-0.9		0.0	0.0	23.7	0.0	6.7	30.4
Motor & Pump P 1601 B	CNEL	96.3	2	188.1	-56.5	3.0	-19.3	-0.9		0.0	0.1	22.6	0.0	6.7	29.3
Motor & Pump P 1602 A	CNEL	96.3	2	187.9	-56.5	3.0	-19.9	-0.9		0.0	0.1	22.1	0.0	6.7	28.8
Motor & Pump P 1602 B	CNEL	96.5	2	187.9	-56.5	3.0	-20.2	-1.0		0.0	0.0	21.9	0.0	6.7	28.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.4	-56.5	3.3	-17.5	-1.0	-0.08	0.0	0.0	24.8	0.0	6.7	31.5
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.3	-56.8	3.3	-16.2	-1.0	-0.18	0.0	0.0	25.8	0.0	6.7	32.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.7	-56.9	3.3	-15.7	-1.0	-0.24	0.0	0.0	26.2	0.0	6.7	32.8
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.2	-56.7	3.2	-2.8	-1.7		0.0	0.0	38.7	0.0	6.7	45.3
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	194.9	-56.8	3.2	-2.8	-1.7		0.0	0.0	38.6	0.0	6.7	45.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.2	-57.1	3.4	0.0	-1.9	-0.27	0.0	0.0	40.5	0.0	6.7	47.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.4	-57.1	3.4	-8.8	-1.2	-0.35	0.0	0.0	32.3	0.0	6.7	39.0
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.7	-57.1	3.4	-14.4	-1.0	-0.35	0.0	0.0	26.8	0.0	6.7	33.5
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.5	-57.1	3.4	-12.9	-1.0	-0.35	0.0	0.0	28.4	0.0	6.7	35.0
P602 100 HP	CNEL	94.1		180.5	-56.1	2.3	-9.9	-0.6		0.0	0.0	29.8	0.0	6.7	36.5
P603 60 HP	CNEL	95.0		174.9	-55.8	2.6	-11.2	-0.8		0.0	0.0	29.8	0.0	6.7	36.4
P605 40 HP	CNEL	95.0		176.3	-55.9	2.5	-11.2	-0.8		0.0	0.4	30.0	0.0	6.7	36.7
P607 15 HP	CNEL	90.5		186.1	-56.4	2.7	-10.3	-0.6		0.0	0.3	26.2	0.0	6.7	32.9
P608 15 HP	CNEL	90.5		188.9	-56.5	2.7	-10.4	-0.6		0.0	0.1	25.7	0.0	6.7	32.4
P611 15 HP	CNEL	90.5		183.3	-56.3	2.6	-10.4	-0.6		0.0	0.0	25.9	0.0	6.7	32.6
P614/615 20 HP	CNEL	93.0		178.7	-56.0	1.9	-18.0	-0.6		0.0	0.3	20.6	0.0	6.7	27.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.3	-49.9	0.3	-0.9	-0.3		0.0	0.2	84.2	-38.6	0.0	45.6
Scanner Blower C-084A/B	CNEL	95.5		118.5	-52.5	2.1	-11.1	-0.4		0.0	2.6	36.2	0.0	6.7	42.9
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	114.9	-52.2	1.7	-9.2	-0.1		0.0	4.1	15.9	0.0	6.7	22.6
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	113.6	-52.1	1.7	-5.8	-0.1		0.0	1.3	14.8	0.0	6.7	21.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	113.1	-52.1	1.1	-3.3	-0.1		0.0	0.6	15.7	0.0	6.7	22.3
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	111.7	-52.0	1.7	-1.3	-0.1		0.0	0.0	19.9	0.0	6.7	26.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	111.6	-51.9	1.6	0.0	-0.2		0.0	0.0	21.4	0.0	6.7	28.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	120.4	-52.6	1.7	-14.4	-0.1		0.0	0.2	15.0	0.0	6.7	21.6
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	122.4	-52.7	1.8	-15.1	-0.1		0.0	0.2	13.3	0.0	6.7	19.9
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	120.8	-52.6	1.7	-14.9	-0.1		0.0	5.1	29.3	0.0	6.7	36.0
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	122.4	-52.7	1.8	-15.2	-0.1		0.0	3.7	19.2	0.0	6.7	25.9
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	119.6	-52.5	1.2	-4.5	-0.2		0.0	0.9	30.3	0.0	6.7	36.9
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	118.0	-52.4	1.7	-6.6	-0.2		0.0	0.0	32.7	0.0	6.7	39.4
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	121.1	-52.7	1.7	-8.2	-0.2		0.0	0.1	22.3	0.0	6.7	29.0
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	127.8	-53.1	2.1	-18.7	-0.5		0.0	6.8	35.9	0.0	6.7	42.5
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	126.2	-53.0	2.1	-19.6	-0.5		0.0	7.1	40.8	0.0	6.7	47.5
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	124.9	-52.9	1.5	-6.5	-0.8		0.0	1.9	44.4	0.0	6.7	51.1
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	123.4	-52.8	2.0	-10.1	-0.5		0.0	0.3	43.6	0.0	6.7	50.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	123.1	-52.8	2.0	-21.5	-0.6		0.0	10.5	31.1	0.0	6.7	37.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	120.9	-52.6	2.0	-10.1	-0.5		0.0	1.8	34.1	0.0	6.7	40.8
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	115.6	-52.2	1.1	-4.4	-0.2		0.0	0.7	23.0	0.0	6.7	29.6
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	119.3	-52.5	1.7	-13.1	-0.1		0.0	3.6	11.5	0.0	6.7	18.2
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	118.3	-52.5	1.6	-13.3	-0.1		0.0	6.2	20.9	0.0	6.7	27.6
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	116.1	-52.3	1.6	-11.1	-0.1		0.0	6.1	17.6	0.0	6.7	24.2
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	115.4	-52.2	1.6	-6.3	-0.1		0.0	0.0	16.8	0.0	6.7	23.4
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	112.9	-52.0	1.5	-4.9	-0.1		0.0	0.0	23.4	0.0	6.7	30.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	111.9	-52.0	1.5	-2.2	-0.1		0.0	0.0	20.6	0.0	6.7	27.3
Tank Farm Pump 1	CNEL	99.0	3	294.4	-60.4	4.0	-8.5	-1.5		0.0	0.0	32.6	0.0	6.7	39.3
Tank Farm Pump 2	CNEL	99.0	3	312.7	-60.9	4.1	-3.5	-2.0		0.0	0.0	36.6	0.0	6.7	43.3
Tank Farm Pump 3	CNEL	99.0	3	317.7	-61.0	4.1	-2.6	-2.2		0.0	0.0	37.3	0.0	6.7	44.0
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	131.7	-53.4	1.1	-0.1	-1.8		0.0	0.1	58.4	-16.8	0.0	41.6
Vaporizer Blower 1	CNEL	88.7		122.3	-52.7	2.6	-22.7	-0.5		0.0	10.4	25.7	0.0	6.7	32.4
Vaporizer Blower 2	CNEL	88.7		122.9	-52.8	2.6	-22.3	-0.5		0.0	10.1	25.7	0.0	6.7	32.4
Vaporizer Inlet Silencer	CNEL	73.7		123.3	-52.8	1.4	-13.7	-0.1		0.0	4.2	12.7	0.0	6.7	19.3
Vaporizer Motor 1	CNEL	83.6		122.1	-52.7	2.7	-23.4	-0.7		0.0	10.9	20.4	0.0	6.7	27.0
Vaporizer Motor 2	CNEL	83.6		122.7	-52.8	2.7	-23.1	-0.7		0.0	16.3	26.1	0.0	6.7	32.7
Water Treatment Pumps P-056A&B	CNEL	93.0		105.0	-51.4	2.6	-15.1	-0.6		0.0	0.8	29.3	0.0	6.7	36.0
XF-1502 Splitter Area 1	CNEL	104.5		198.1	-56.9	1.7	-2.9	-1.3	-0.25	-4.2	0.0	40.5	0.0	6.7	47.2
XF-1502 Splitter Area 2	CNEL	104.5		194.4	-56.8	1.6	-3.1	-1.3		-4.2	0.0	40.8	0.0	6.7	47.4
XF-1504 Splitter Area 1	CNEL	104.5		197.7	-56.9	1.7	0.0	-1.4	-0.25	-4.4	0.0	43.1	0.0	6.7	49.8
XF-1504 Splitter Area 2	CNEL	104.5		194.0	-56.7	1.7	0.0	-1.4	-0.06	-4.4	0.0	43.5	0.0	6.7	50.2
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	0.7	-1.1	-1.1	-1.23	-3.5	0.1	45.7	0.0	6.7	52.4
XF 313, XF 314	CNEL	113.0	18	270.5	-59.6	1.3	-3.4	-1.0	-1.10	-3.8	0.0	45.4	0.0	6.7	52.1
XF 335-1, XF 335-2	CNEL	113.4	54	253.1	-59.1	1.0	-4.4	-1.2	-0.95	-3.1	0.5	46.1	0.0	6.7	52.8
XF 503	CNEL	113.0	21	187.6	-56.5	1.0	-0.3	-3.0	-1.07	-4.2	0.0	49.0	0.0	6.7	55.7
XF - 1601	CNEL	96.6		187.3	-56.4	1.2	0.0	-0.7		-3.0	0.0	37.7	0.0	6.7	44.4
XF - 1602	CNEL	96.6		187.4	-56.4	1.2	0.0	-0.7		-3.0	0.0	37.7	0.0	6.7	44.4
XF Module 1510	CNEL	108.3		191.3	-56.6	1.6	-4.1	-1.3	-0.10	-4.2	0.0	43.7	0.0	6.7	50.4
XF Module 1519	CNEL	109.0		196.6	-56.9	1.6	-4.0	-1.3	-0.20	-4.2	0.0	44.1	0.0	6.7	50.8
xxxx xxxx xxxx xxxx	CNEL		606								2.1				26.9
xxxx xxxx xxxx xxxx	CNEL		606								2.3				27.1
xxxx xxxx xxxx xxxx	CNEL		917								2.0				39.6
xxxx xxxx xxxx xxxx	CNEL		917								1.8				39.3
xxxx xxxx xxxx xxxx	CNEL		608								1.1				31.9
xxxx xxxx xxxx xxxx	CNEL		608								1.1				31.8
xxxx xxxx xxxx xxxx	CNEL		1172								1.7				44.3
xxxx xxxx xxxx xxxx	CNEL		520								3.6				27.4
xxxx xxxx xxxx xxxx	CNEL		572								1.8				39.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-4 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.4 dB(A)			Ld 7-19 dB(A)			Leq,N 64.0 dB(A)		Le 19-22 dB(A)		CNEL 70.7 dB(A)		Lmax day hr dB(A)	Ld 7-1
2.8-Open Intake	CNEL	90.5	8	130.0	-53.3	2.5	-1.2	0.0		0.0	0.0	41.5	0.0	6.7	48.2
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	79.8	-49.0	1.3	-0.1	-1.7		0.0	0.1	59.5	-10.8	0.0	48.7
Air Compressor C 1	CNEL	110.0	5	248.9	-58.9	3.2	-5.1	-0.9	-0.62	0.0	0.8	48.5	0.0	6.7	55.2
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		112.3	-52.0	2.5	-18.6	-1.5		0.0	8.5	39.2	0.0	6.7	45.9
Asphalt Production	CNEL	113.8	1206	139.3	-53.9	2.2	-2.1	-1.8		0.0	0.6	58.8	0.0	6.7	65.5
BFW Pumps P-073A&B	CNEL	95.8		108.0	-51.7	2.5	-17.8	-0.7		0.0	1.0	29.1	0.0	6.7	35.8
Blower F 401	CNEL	113.0		139.7	-53.9	2.1	-12.8	-0.2		0.0	0.0	48.2	0.0	6.7	54.9
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.7	-57.4	2.1	-0.2	-1.0		0.0	0.0	42.1	0.0	6.7	48.8
Brine Transfer P-085	CNEL	96.2		102.2	-51.2	2.5	-12.6	-0.5		0.0	0.4	34.8	0.0	6.7	41.5
Burner H301 North	CNEL	96.1	10	282.6	-60.0	3.1	-21.9	-1.4	-0.41	0.0	1.1	19.5	0.0	6.7	26.2
Burner H301 South	CNEL	95.9	10	279.3	-59.9	3.1	-11.9	-1.3	-1.17	0.0	0.4	28.2	0.0	6.7	34.8
Burner H302 North	CNEL	97.0	13	269.4	-59.6	3.0	-22.2	-1.4	-0.72	0.0	1.9	20.9	0.0	6.7	27.6
Burner H302 South	CNEL	97.0	13	266.7	-59.5	2.9	-12.4	-1.2	-0.99	0.0	1.2	30.0	0.0	6.7	36.7
Burner H303 North	CNEL	97.0	13	235.4	-58.4	2.5	-22.3	-1.2	-0.14	0.0	9.2	29.7	0.0	6.7	36.3
Burner H303 South	CNEL	97.0	13	232.3	-58.3	2.5	-7.2	-1.2	-0.04	0.0	0.1	35.8	0.0	6.7	42.4
Burner H304 North	CNEL	97.0	13	244.0	-58.7	2.6	-22.6	-1.3	-0.26	0.0	8.0	27.7	0.0	6.7	34.4
Burner H304 South	CNEL	97.0	13	240.9	-58.6	2.6	-14.4	-0.9	-0.41	0.0	3.4	31.7	0.0	6.7	38.3
Burner H305 North	CNEL	96.3	11	251.6	-59.0	2.8	-22.1	-1.3	-0.14	0.0	9.5	29.0	0.0	6.7	35.6
Burner H305 South	CNEL	96.3	11	248.4	-58.9	2.7	-16.3	-1.0	-0.45	0.0	2.6	28.0	0.0	6.7	34.7
Burner H306 North	CNEL	95.0	8	259.6	-59.3	2.9	-22.0	-1.3	-0.56	0.0	9.0	26.7	0.0	6.7	33.4
Burner H306 South	CNEL	95.1	8	256.8	-59.2	2.8	-11.0	-1.1	-0.96	0.0	0.8	29.5	0.0	6.7	36.2
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.8	-56.6	2.1	-10.8	-0.7	-0.84	3.3	1.8	43.0	0.0	6.7	49.7
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	2.3	-3.6	-1.5	-1.02	0.0	0.6	40.6	0.0	6.7	47.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.3	-57.0	2.2	-17.2	-0.5	-0.73	-7.8	9.8	35.3	0.0	6.7	42.0
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.1	-56.7	2.0	-11.0	-0.9	-0.41	1.2	0.0	44.8	0.0	6.7	51.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	2.2	-11.4	-0.7	-0.76	0.9	0.5	37.8	0.0	6.7	44.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	2.1	-15.0	-0.5	-0.04	-6.9	0.2	23.1	0.0	6.7	29.8
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.8	-55.7	2.5	0.0	-1.2		2.3	0.0	45.7	0.0	6.7	52.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.0	-55.8	2.4	-9.8	-0.5		-2.8	0.0	31.3	0.0	6.7	38.0
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.4	-55.7	2.4	-5.5	-0.9		-1.4	0.0	39.5	0.0	6.7	46.2
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.1	-55.7	2.4	-4.7	-1.1		-0.6	0.0	41.1	0.0	6.7	47.7
Cooling Tower M 512	CNEL	95.7		166.9	-55.4	2.6	-14.3	-0.6		0.0	0.8	28.7	0.0	6.7	35.4
Cooling Tower M 513	CNEL	95.7		167.0	-55.4	2.6	-14.3	-0.6		0.0	0.8	28.7	0.0	6.7	35.4
Cooling Tower M 514	CNEL	95.7		166.6	-55.4	2.6	-11.6	-0.6		0.0	0.5	31.1	0.0	6.7	37.8
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	216.3	-57.7	2.8	-5.5	-2.1		0.0	0.3	51.5	0.0	6.7	58.2
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	216.3	-57.7	2.4	-5.0	-2.1		0.0	0.2	51.6	0.0	6.7	58.3
CT Y-600-CT Y-600 North	CNEL	96.4	51	156.7	-54.9	2.0	-11.9	-0.5		0.0	0.0	34.1	0.0	6.7	40.8
CT Y-600-CT Y-600 South	CNEL	96.4	52	156.6	-54.9	1.7	-4.8	-1.0		0.0	0.0	40.4	0.0	6.7	47.1
Deaerator Skid P-058A&B	CNEL	96.2		119.4	-52.5	2.1	-0.1	-1.2		0.0	0.0	44.5	0.0	6.7	51.2
Exhaust Stack	CNEL	100.6		112.5	-52.0	2.0	0.0	-0.2		-0.1	0.0	50.3	0.0	6.7	57.0
F.G. After Cooler XF-083ABC	CNEL	100.2		121.9	-52.7	2.2	-10.6	-0.2		0.0	2.1	41.0	0.0	6.7	47.7
Fan Y-600	CNEL	107.5		156.6	-54.9	1.6	-9.4	-0.4		0.0	0.0	44.5	0.0	6.7	51.2
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	129.5	-53.2	1.6	-4.8	-0.1		0.0	0.1	26.0	0.0	6.7	32.7
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	132.8	-53.5	2.2	-7.3	-0.1		0.0	0.0	22.1	0.0	6.7	28.8
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	130.9	-53.3	2.6	-12.2	-0.9		0.0	0.2	10.5	0.0	6.7	17.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	131.1	-53.3	2.1	-9.7	-0.1		0.0	0.2	22.9	0.0	6.7	29.6
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	125.7	-53.0	2.0	0.0	-0.1		0.0	0.0	23.9	0.0	6.7	30.6
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	124.3	-52.9	2.0	-5.1	-0.1		0.0	0.0	24.8	0.0	6.7	31.5
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	122.9	-52.8	2.5	-12.8	-0.7		0.0	4.6	15.0	0.0	6.7	21.6
Fin Fan XF 616 - Above	CNEL	96.0	75	185.4	-56.4	1.7	-0.1	-0.5		-13.1	0.0	27.7	0.0	6.7	34.4
Fin Fan XF 616 - Below	CNEL	108.0	75	185.4	-56.4	1.7	-0.1	-0.7		-7.1	0.0	45.4	0.0	6.7	52.1
Fin Fan XF 617 - Above	CNEL	93.0	21	193.5	-56.7	1.7	-0.1	-0.5		-13.1	0.0	24.3	0.0	6.7	31.0
Fin Fan XF 617 - Below	CNEL	104.0	21	193.4	-56.7	1.8	-0.2	-0.7		-7.1	0.0	41.0	0.0	6.7	47.7
Heater # 5-Heater	CNEL	91.1	13	211.5	-57.5	2.3	-8.7	-0.5		0.0	0.0	29.7	0.0	6.7	36.4
Heater # 5-Heater	CNEL	91.1	13	206.6	-57.3	2.3	-7.4	-0.6		0.0	0.0	31.1	0.0	6.7	37.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	201.5	-57.1	2.1	-5.1	-0.8		0.0	0.0	33.2	0.0	6.7	39.9
Heater H 601	CNEL	89.1	13	194.2	-56.8	2.1	-0.3	-1.1		0.0	0.1	33.1	0.0	6.7	39.7
Hydro Heater H-402	CNEL	98.1		172.1	-55.7	2.4	-3.5	-0.5		0.0	0.5	41.3	0.0	6.7	47.9
ID Fan	CNEL	110.3		262.3	-59.4	2.3	-18.1	-0.4		0.0	5.8	40.4	0.0	6.7	47.1
ID Fan 200 HP Motor	CNEL	104.4		260.7	-59.3	2.9	-22.9	-1.6		0.0	3.7	27.1	0.0	6.7	33.8
Incinirator Compressor & Motor	CNEL	92.5		284.3	-60.1	3.0	-3.2	-1.1		0.0	0.0	31.1	0.0	6.7	37.8
Incinirator Fin Fan	CNEL	94.8		283.4	-60.0	3.0	-2.9	-1.1		0.0	0.0	33.9	0.0	6.7	40.5
Lub Oil Cooler XF-061	CNEL	100.5		124.8	-52.9	2.5	-15.3	-0.2		0.0	5.8	40.3	0.0	6.7	47.0
Misc pumps motors	CNEL	100.2	332	214.8	-57.6	2.7	-11.6	-1.3		0.0	3.1	35.4	0.0	6.7	42.1
Motor & Pump P 56A/B	CNEL	93.7		189.6	-56.5	2.5	-2.5	-1.5	-0.48	0.0	0.0	35.1	0.0	6.7	41.8
Motor & Pump P 120/121	CNEL	96.2	2	236.4	-58.5	3.1	-15.9	-0.7	-0.82	0.0	0.0	23.3	0.0	6.7	30.0
Motor & Pump P 211/212	CNEL	93.7		173.0	-55.8	2.4	-6.8	-1.1	-0.66	0.0	0.0	31.7	0.0	6.7	38.4
Motor & Pump P 215/214	CNEL	94.6		177.8	-56.0	2.4	-8.2	-1.0	-0.78	0.0	0.0	31.0	0.0	6.7	37.7
Motor & Pump P 216	CNEL	98.3		176.3	-55.9	2.4	-4.9	-1.4	-0.68	0.0	0.9	38.6	0.0	6.7	45.3
Motor & Pump P 217/218	CNEL	93.7		174.9	-55.8	2.5	-7.7	-1.1	-0.71	0.0	0.0	30.8	0.0	6.7	37.5
Motor & Pump P 300	CNEL	97.1	2	242.2	-58.7	3.1	-17.2	-0.8	-1.05	0.0	0.3	22.8	0.0	6.7	29.5
Motor & Pump P 301	CNEL	102.1	2	240.5	-58.6	3.1	-17.1	-0.8	-1.07	0.0	0.1	27.7	0.0	6.7	34.4
Motor & Pump P 302	CNEL	97.1	2	243.9	-58.7	3.2	-17.2	-0.8	-1.02	0.0	1.0	23.6	0.0	6.7	30.2
Motor & Pump P 303	CNEL	97.1	2	245.3	-58.8	3.1	-16.9	-0.8	-1.00	0.0	1.3	24.0	0.0	6.7	30.7
Motor & Pump P 305	CNEL	97.5	2	246.7	-58.8	3.1	-16.7	-0.8	-0.98	0.0	1.8	25.2	0.0	6.7	31.8
Motor & Pump P 306	CNEL	112.6	4	255.3	-59.1	3.1	-14.7	-0.7	-0.90	0.0	0.7	41.1	0.0	6.7	47.7
Motor & Pump P 307	CNEL	102.1	2	235.9	-58.4	3.1	-15.5	-0.7	-1.16	0.0	0.0	29.3	0.0	6.7	36.0
Motor & Pump P 309	CNEL	97.5	2	248.1	-58.9	3.2	-16.5	-0.8	-0.96	0.0	1.8	25.3	0.0	6.7	32.0
Motor & Pump P 312	CNEL	101.5	2	215.3	-57.7	3.0	-2.5	-1.0	-1.25	0.0	0.3	42.3	0.0	6.7	49.0
Motor & Pump P 313	CNEL	101.5	2	213.6	-57.6	2.9	-2.9	-1.0	-1.25	0.0	0.4	42.1	0.0	6.7	48.8
Motor & Pump P 315	CNEL	102.9	2	207.7	-57.3	2.7	-3.7	-1.0	-1.26	0.0	0.9	43.2	0.0	6.7	49.9
Motor & Pump P 316	CNEL	102.9	2	205.9	-57.3	2.7	-3.9	-1.0	-1.26	0.0	1.1	43.3	0.0	6.7	50.0
Motor & Pump P 317	CNEL	102.9	2	204.0	-57.2	2.6	-4.0	-1.0	-1.26	0.0	1.3	43.4	0.0	6.7	50.1
Motor & Pump P 318	CNEL	100.2	1	209.4	-57.4	3.0	-3.5	-0.9	-1.25	0.0	0.3	40.4	0.0	6.7	47.0
Motor & Pump P 319	CNEL	100.2	1	210.7	-57.5	3.0	-3.3	-1.0	-1.25	0.0	0.4	40.6	0.0	6.7	47.3
Motor & Pump P 327	CNEL	111.2	3	263.1	-59.4	3.3	-21.6	-1.5	-0.13	0.0	2.8	34.8	0.0	6.7	41.5
Motor & Pump P 328	CNEL	109.9	5	249.8	-58.9	3.0	-15.8	-0.7	-0.93	0.0	0.4	36.9	0.0	6.7	43.6
Motor & Pump P 329	CNEL	110.2	5	252.5	-59.0	3.1	-16.0	-0.8	-0.86	0.0	0.7	37.2	0.0	6.7	43.9
Motor & Pump P 451	CNEL	93.7		165.1	-55.3	2.5	-6.7	-1.1		0.0	0.0	33.0	0.0	6.7	39.7
Motor & Pump P 453	CNEL	93.7		153.1	-54.7	2.5	0.0	-1.5		0.0	0.0	40.0	0.0	6.7	46.7
Motor & Pump P 454	CNEL	93.7		166.0	-55.4	2.5	-6.0	-0.9		0.0	2.2	35.9	0.0	6.7	42.6
Motor & Pump P 457	CNEL	93.7		151.7	-54.6	2.5	0.0	-1.5		0.0	0.0	40.1	0.0	6.7	46.7
Motor & Pump P 458	CNEL	93.7		164.8	-55.3	2.5	-3.8	-1.1		0.0	0.0	35.9	0.0	6.7	42.6
Motor & Pump P 459	CNEL	93.7		166.9	-55.4	2.5	-6.0	-0.9		0.0	2.2	36.0	0.0	6.7	42.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.2	-56.6	2.6	-10.0	-0.9		0.0	0.0	31.4	0.0	6.7	38.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.8	-56.7	2.6	-6.6	-1.1		0.0	0.0	34.4	0.0	6.7	41.1
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.8	-58.0	3.0	-11.5	-1.1	-0.85	0.0	0.0	27.0	0.0	6.7	33.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		225.0	-58.0	3.0	-11.2	-1.1	-0.87	0.0	0.0	27.2	0.0	6.7	33.9
Motor & Pump P 1601 A	CNEL	96.3	2	188.2	-56.5	2.6	-17.7	-0.8		0.0	0.0	23.9	0.0	6.7	30.6
Motor & Pump P 1601 B	CNEL	96.3	2	188.2	-56.5	2.6	-18.8	-0.8		0.0	0.1	22.8	0.0	6.7	29.5
Motor & Pump P 1602 A	CNEL	96.3	2	188.0	-56.5	2.6	-19.4	-0.8		0.0	0.1	22.3	0.0	6.7	29.0
Motor & Pump P 1602 B	CNEL	96.5	2	188.0	-56.5	2.6	-19.7	-0.9		0.0	0.0	22.1	0.0	6.7	28.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.5	-56.5	2.6	-17.0	-0.9	-0.08	0.0	0.0	24.7	0.0	6.7	31.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.3	-56.8	2.6	-15.7	-0.9	-0.19	0.0	0.0	25.7	0.0	6.7	32.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.7	-56.9	2.7	-15.1	-0.9	-0.24	0.0	0.0	26.2	0.0	6.7	32.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.2	-56.7	2.6	-2.8	-1.6		0.0	0.0	38.1	0.0	6.7	44.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	195.0	-56.8	2.6	-2.8	-1.7		0.0	0.0	38.1	0.0	6.7	44.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.2	-57.1	2.8	0.0	-1.8	-0.27	0.0	0.0	39.9	0.0	6.7	46.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.4	-57.1	2.8	-7.6	-1.1	-0.35	0.0	0.0	32.9	0.0	6.7	39.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.7	-57.1	2.7	-13.8	-0.9	-0.35	0.0	0.0	26.9	0.0	6.7	33.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.5	-57.1	2.8	-12.4	-1.0	-0.35	0.0	0.0	28.3	0.0	6.7	35.0
P602 100 HP	CNEL	94.1		180.6	-56.1	2.3	-9.5	-0.5		0.0	0.0	30.2	0.0	6.7	36.9
P603 60 HP	CNEL	95.0		175.0	-55.9	2.3	-11.0	-0.8		0.0	0.0	29.7	0.0	6.7	36.4
P605 40 HP	CNEL	95.0		176.4	-55.9	2.3	-11.0	-0.8		0.0	0.8	30.4	0.0	6.7	37.1
P607 15 HP	CNEL	90.5		186.2	-56.4	2.3	-10.0	-0.6		0.0	0.3	26.2	0.0	6.7	32.8
P608 15 HP	CNEL	90.5		188.9	-56.5	2.3	-10.1	-0.6		0.0	0.0	25.6	0.0	6.7	32.3
P611 15 HP	CNEL	90.5		183.4	-56.3	2.3	-10.1	-0.6		0.0	0.0	25.9	0.0	6.7	32.5
P614/615 20 HP	CNEL	93.0		178.8	-56.0	2.4	-17.5	-0.5		0.0	0.2	21.5	0.0	6.7	28.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.5	-49.9	0.6	-0.3	-0.3		0.0	0.2	85.0	-38.6	0.0	46.4
Scanner Blower C-084A/B	CNEL	95.5		118.5	-52.5	2.5	-10.1	-0.4		0.0	2.7	37.8	0.0	6.7	44.5
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	114.9	-52.2	2.3	-9.3	-0.1		0.0	4.1	16.3	0.0	6.7	23.0
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	113.6	-52.1	2.2	-5.9	-0.1		0.0	1.2	15.2	0.0	6.7	21.9
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	113.1	-52.1	1.7	-3.4	-0.1		0.0	0.6	16.3	0.0	6.7	23.0
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	111.8	-52.0	2.3	-1.3	-0.1		0.0	0.0	20.5	0.0	6.7	27.2
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	111.7	-52.0	2.4	0.0	-0.2		0.0	0.0	22.1	0.0	6.7	28.8
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	120.5	-52.6	2.3	-12.4	-0.1		0.0	0.3	17.5	0.0	6.7	24.2
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	122.4	-52.7	2.3	-13.2	-0.1		0.0	0.4	15.7	0.0	6.7	22.4
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	120.8	-52.6	2.2	-13.2	-0.1		0.0	4.7	31.0	0.0	6.7	37.7
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	122.4	-52.7	2.2	-13.1	-0.1		0.0	3.8	21.7	0.0	6.7	28.4
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	119.6	-52.5	1.9	-4.8	-0.2		0.0	1.0	30.7	0.0	6.7	37.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	118.1	-52.4	2.2	-6.3	-0.2		0.0	0.1	33.5	0.0	6.7	40.2
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	121.1	-52.7	2.2	-7.5	-0.2		0.0	0.1	23.5	0.0	6.7	30.1
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	127.9	-53.1	2.5	-17.9	-0.4		0.0	6.9	37.2	0.0	6.7	43.8
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	126.3	-53.0	2.5	-18.6	-0.4		0.0	8.7	43.9	0.0	6.7	50.5
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	124.9	-52.9	2.1	-5.4	-0.9		0.0	1.7	46.0	0.0	6.7	52.6
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	123.4	-52.8	2.5	-8.9	-0.5		0.0	0.2	45.2	0.0	6.7	51.9
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	123.1	-52.8	2.5	-17.5	-0.6		0.0	9.5	34.5	0.0	6.7	41.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	121.0	-52.6	2.5	-8.8	-0.5		0.0	1.7	35.8	0.0	6.7	42.5
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	115.6	-52.2	1.9	-3.9	-0.2		0.0	0.6	24.3	0.0	6.7	30.9
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	119.3	-52.5	2.2	-11.9	-0.1		0.0	3.1	12.6	0.0	6.7	19.2
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	118.3	-52.5	2.2	-12.3	-0.1		0.0	5.5	21.8	0.0	6.7	28.4
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	116.2	-52.3	2.2	-11.2	-0.1		0.0	6.1	18.1	0.0	6.7	24.8
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	115.4	-52.2	2.2	-6.0	-0.1		0.0	0.1	17.7	0.0	6.7	24.3
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	113.0	-52.1	2.2	-4.7	-0.1		0.0	0.0	24.3	0.0	6.7	30.9
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	111.9	-52.0	2.1	-2.1	-0.1		0.0	0.0	21.3	0.0	6.7	28.0
Tank Farm Pump 1	CNEL	99.0	3	294.4	-60.4	3.7	-6.7	-1.6		0.0	0.0	34.1	0.0	6.7	40.7
Tank Farm Pump 2	CNEL	99.0	3	312.7	-60.9	3.8	-1.9	-2.1		0.0	0.0	37.9	0.0	6.7	44.6
Tank Farm Pump 3	CNEL	99.0	3	317.8	-61.0	3.9	-2.5	-2.3		0.0	0.0	37.1	0.0	6.7	43.8
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	131.8	-53.4	1.2	-0.1	-1.8		0.0	0.1	58.5	-16.8	0.0	41.7
Vaporizer Blower 1	CNEL	88.7		122.4	-52.7	2.6	-18.6	-0.5		0.0	8.8	28.1	0.0	6.7	34.8
Vaporizer Blower 2	CNEL	88.7		123.0	-52.8	2.6	-18.2	-0.5		0.0	8.5	28.2	0.0	6.7	34.8
Vaporizer Inlet Silencer	CNEL	73.7		123.4	-52.8	2.2	-11.3	-0.2		0.0	4.1	15.7	0.0	6.7	22.3
Vaporizer Motor 1	CNEL	83.6		122.2	-52.7	2.6	-19.1	-0.8		0.0	9.2	22.8	0.0	6.7	29.5
Vaporizer Motor 2	CNEL	83.6		122.8	-52.8	2.6	-18.8	-0.7		0.0	12.5	26.4	0.0	6.7	33.0
Water Treatment Pumps P-056A&B	CNEL	93.0		105.1	-51.4	2.5	-14.8	-0.6		0.0	1.5	30.2	0.0	6.7	36.9
XF-1502 Splitter Area 1	CNEL	104.5		198.0	-56.9	2.3	-4.6	-1.5	-0.01	-4.3	0.0	39.5	0.0	6.7	46.2
XF-1502 Splitter Area 2	CNEL	104.5		194.3	-56.8	2.2	-4.5	-1.5		-4.3	0.0	39.8	0.0	6.7	46.5
XF-1504 Splitter Area 1	CNEL	104.5		197.6	-56.9	2.3	0.0	-1.4	-0.05	-4.3	0.0	44.1	0.0	6.7	50.8
XF-1504 Splitter Area 2	CNEL	104.5		193.9	-56.7	2.3	0.0	-1.4		-4.3	0.0	44.4	0.0	6.7	51.0
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	2.0	-0.9	-0.9	-0.20	-3.1	0.1	48.8	0.0	6.7	55.5
XF 313, XF 314	CNEL	113.0	18	270.4	-59.6	2.2	-3.2	-0.9	-0.88	-3.6	0.0	47.0	0.0	6.7	53.7
XF 335-1, XF 335-2	CNEL	113.4	54	253.0	-59.1	2.1	-4.4	-1.1	-0.02	-3.0	0.6	48.5	0.0	6.7	55.1
XF 503	CNEL	113.0	21	187.6	-56.5	2.0	-0.1	-2.6	-1.11	-4.1	0.0	50.8	0.0	6.7	57.4
XF - 1601	CNEL	96.6		187.1	-56.4	2.2	0.0	-0.6		-2.6	0.0	39.1	0.0	6.7	45.8
XF - 1602	CNEL	96.6		187.2	-56.4	2.2	0.0	-0.6		-2.6	0.0	39.2	0.0	6.7	45.8
XF Module 1510	CNEL	108.3		191.2	-56.6	2.2	-4.0	-1.2	-0.10	-4.0	0.0	44.6	0.0	6.7	51.2
XF Module 1519	CNEL	109.0		196.5	-56.9	2.2	-3.9	-1.3	-0.21	-4.0	0.0	45.0	0.0	6.7	51.6
xxxx xxxx xxxx xxxx	CNEL		606								1.6				27.5
xxxx xxxx xxxx xxxx	CNEL		606								2.1				27.9
xxxx xxxx xxxx xxxx	CNEL		917								2.0				41.3
xxxx xxxx xxxx xxxx	CNEL		917								1.5				40.7
xxxx xxxx xxxx xxxx	CNEL		608								0.8				33.0
xxxx xxxx xxxx xxxx	CNEL		608								0.8				32.8
xxxx xxxx xxxx xxxx	CNEL		1172								1.7				44.6
xxxx xxxx xxxx xxxx	CNEL		520								1.8				26.9
xxxx xxxx xxxx xxxx	CNEL		572								1.8				39.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-4 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.7 dB(A)			Ld 7-19 dB(A)			Leq,N 64.3 dB(A)		Le 19-22 dB(A)		CNEL 71.0 dB(A)		Lmax day hr dB(A)	Ld 7-1
2.8-Open Intake	CNEL	90.5	8	130.0	-53.3	2.6	-1.3	0.0		0.0	0.0	41.5	0.0	6.7	48.2
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	80.1	-49.1	1.3	-0.1	-1.7		0.0	0.1	59.5	-10.8	0.0	48.7
Air Compressor C 1	CNEL	110.0	5	248.9	-58.9	2.7	-5.0	-0.9	-0.62	0.0	0.9	48.3	0.0	6.7	54.9
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		112.4	-52.0	2.5	-18.5	-1.5		0.0	9.8	40.7	0.0	6.7	47.3
Asphalt Production	CNEL	113.8	1206	139.4	-53.9	2.2	-1.9	-1.9		0.0	0.5	58.9	0.0	6.7	65.5
BFW Pumps P-073A&B	CNEL	95.8		108.2	-51.7	2.5	-17.6	-0.7		0.0	1.1	29.4	0.0	6.7	36.1
Blower F 401	CNEL	113.0		139.8	-53.9	2.3	-12.6	-0.2		0.0	0.0	48.6	0.0	6.7	55.3
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.8	-57.4	2.4	0.0	-0.9		0.0	0.0	42.6	0.0	6.7	49.3
Brine Transfer P-085	CNEL	96.2		102.4	-51.2	2.5	-12.6	-0.5		0.0	0.5	34.9	0.0	6.7	41.6
Burner H301 North	CNEL	96.1	10	282.6	-60.0	2.6	-20.0	-1.2	-0.78	0.0	1.8	21.4	0.0	6.7	28.0
Burner H301 South	CNEL	95.9	10	279.4	-59.9	2.6	-9.0	-1.3	-0.90	0.0	0.3	30.7	0.0	6.7	37.4
Burner H302 North	CNEL	97.0	13	269.4	-59.6	2.6	-21.4	-1.3	-0.81	0.0	2.5	22.0	0.0	6.7	28.6
Burner H302 South	CNEL	97.0	13	266.8	-59.5	2.6	-10.2	-1.5	-0.96	0.0	0.9	31.4	0.0	6.7	38.0
Burner H303 North	CNEL	97.0	13	235.5	-58.4	2.5	-22.1	-1.3	-0.14	0.0	11.0	31.6	0.0	6.7	38.3
Burner H303 South	CNEL	97.0	13	232.4	-58.3	2.5	-5.7	-1.4	-0.06	0.0	0.1	37.2	0.0	6.7	43.9
Burner H304 North	CNEL	97.0	13	244.1	-58.7	2.6	-22.4	-1.4	-0.27	0.0	9.0	28.7	0.0	6.7	35.4
Burner H304 South	CNEL	97.0	13	241.0	-58.6	2.5	-11.8	-1.1	-0.45	0.0	3.1	33.7	0.0	6.7	40.3
Burner H305 North	CNEL	96.3	11	251.6	-59.0	2.6	-22.0	-1.3	-0.16	0.0	10.7	30.2	0.0	6.7	36.8
Burner H305 South	CNEL	96.3	11	248.5	-58.9	2.6	-14.5	-1.2	-0.52	0.0	2.4	29.2	0.0	6.7	35.8
Burner H306 North	CNEL	95.0	8	259.7	-59.3	2.6	-20.9	-1.3	-0.57	0.0	8.8	27.4	0.0	6.7	34.1
Burner H306 South	CNEL	95.1	8	256.9	-59.2	2.6	-8.8	-1.4	-0.99	0.0	0.9	31.2	0.0	6.7	37.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.8	-56.6	2.3	-10.3	-0.7	-0.83	3.3	2.4	44.4	0.0	6.7	51.0
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	2.4	-2.7	-1.6	-1.01	0.0	0.7	41.6	0.0	6.7	48.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.4	-57.0	2.4	-15.3	-0.5	-0.69	-7.8	9.5	37.1	0.0	6.7	43.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.2	-56.7	2.2	-11.0	-0.9	-0.41	1.2	0.0	45.2	0.0	6.7	51.8
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	2.4	-10.3	-0.6	-0.67	0.9	0.4	39.2	0.0	6.7	45.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	2.3	-13.7	-0.6	-0.04	-6.9	0.1	24.4	0.0	6.7	31.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.8	-55.7	2.6	0.0	-1.2		2.3	0.0	45.8	0.0	6.7	52.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.1	-55.8	2.5	-9.7	-0.5		-2.8	0.0	31.5	0.0	6.7	38.2
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.5	-55.7	2.5	-5.4	-0.9		-1.4	0.0	39.7	0.0	6.7	46.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.2	-55.7	2.5	-4.6	-1.1		-0.6	0.0	41.2	0.0	6.7	47.9
Cooling Tower M 512	CNEL	95.7		167.0	-55.4	2.6	-13.1	-0.6		0.0	1.5	30.7	0.0	6.7	37.4
Cooling Tower M 513	CNEL	95.7		167.1	-55.5	2.6	-13.0	-0.6		0.0	1.5	30.8	0.0	6.7	37.5
Cooling Tower M 514	CNEL	95.7		166.7	-55.4	2.6	-10.8	-0.7		0.0	1.0	32.4	0.0	6.7	39.1
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	216.4	-57.7	2.6	-5.0	-2.0		0.0	0.2	51.8	0.0	6.7	58.4
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	216.4	-57.7	2.6	-4.4	-2.1		0.0	0.1	52.3	0.0	6.7	58.9
CT Y-600-CT Y-600 North	CNEL	96.4	51	156.8	-54.9	2.0	-11.7	-0.5		0.0	0.0	34.4	0.0	6.7	41.1
CT Y-600-CT Y-600 South	CNEL	96.4	52	156.6	-54.9	1.9	-4.7	-1.0		0.0	0.0	40.7	0.0	6.7	47.4
Deaerator Skid P-058A&B	CNEL	96.2		119.4	-52.5	2.1	0.0	-1.2		0.0	0.0	44.6	0.0	6.7	51.3
Exhaust Stack	CNEL	100.6		112.3	-52.0	2.0	0.0	-0.2		0.0	0.0	50.5	0.0	6.7	57.1
F.G. After Cooler XF-083ABC	CNEL	100.2		122.0	-52.7	2.3	-10.2	-0.2		0.0	2.1	41.4	0.0	6.7	48.1
Fan Y-600	CNEL	107.5		156.6	-54.9	1.7	-9.0	-0.4		0.0	0.0	44.9	0.0	6.7	51.6
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	129.5	-53.2	1.9	-4.7	-0.1		0.0	0.1	26.3	0.0	6.7	32.9
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	132.9	-53.5	2.4	-7.2	-0.1		0.0	0.0	22.4	0.0	6.7	29.0
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	131.0	-53.3	2.6	-12.2	-0.9		0.0	0.2	10.5	0.0	6.7	17.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	131.2	-53.3	2.4	-9.6	-0.1		0.0	0.2	23.3	0.0	6.7	29.9
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	125.9	-53.0	2.4	0.0	-0.1		0.0	0.0	24.3	0.0	6.7	31.0
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	124.4	-52.9	2.3	-5.2	-0.1		0.0	0.1	25.0	0.0	6.7	31.7
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	123.0	-52.8	2.5	-12.7	-0.7		0.0	4.7	15.1	0.0	6.7	21.8
Fin Fan XF 616 - Above	CNEL	96.0	75	185.3	-56.3	1.9	0.0	-0.4		-12.2	0.0	28.8	0.0	6.7	35.5
Fin Fan XF 616 - Below	CNEL	108.0	75	185.3	-56.3	1.9	0.0	-0.7		-7.5	0.0	45.3	0.0	6.7	52.0
Fin Fan XF 617 - Above	CNEL	93.0	21	193.4	-56.7	1.9	0.0	-0.5		-12.3	0.0	25.4	0.0	6.7	32.1
Fin Fan XF 617 - Below	CNEL	104.0	21	193.3	-56.7	1.9	0.0	-0.7		-7.5	0.0	41.0	0.0	6.7	47.6
Heater # 5-Heater	CNEL	91.1	13	211.6	-57.5	2.4	-8.6	-0.5		0.0	0.0	29.9	0.0	6.7	36.6
Heater # 5-Heater	CNEL	91.1	13	206.7	-57.3	2.4	-7.4	-0.5		0.0	0.0	31.3	0.0	6.7	38.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	201.6	-57.1	2.4	-5.1	-0.8		0.0	0.0	33.5	0.0	6.7	40.2
Heater H 601	CNEL	89.1	13	194.3	-56.8	2.4	-0.1	-1.0		0.0	0.1	33.6	0.0	6.7	40.3
Hydro Heater H-402	CNEL	98.1		172.2	-55.7	2.6	-3.5	-0.5		0.0	0.5	41.4	0.0	6.7	48.1
ID Fan	CNEL	110.3		262.3	-59.4	2.5	-17.7	-0.4		0.0	5.6	40.8	0.0	6.7	47.5
ID Fan 200 HP Motor	CNEL	104.4		260.8	-59.3	2.5	-22.8	-1.6		0.0	3.7	26.8	0.0	6.7	33.5
Incinirator Compressor & Motor	CNEL	92.5		284.3	-60.1	2.6	-3.1	-1.1		0.0	0.0	30.8	0.0	6.7	37.5
Incinirator Fin Fan	CNEL	94.8		283.4	-60.0	2.6	-2.8	-1.0		0.0	0.0	33.4	0.0	6.7	40.1
Lub Oil Cooler XF-061	CNEL	100.5		125.0	-52.9	2.6	-15.0	-0.2		0.0	6.1	41.0	0.0	6.7	47.6
Misc pumps motors	CNEL	100.2	332	214.8	-57.6	2.8	-10.4	-1.5		0.0	2.9	36.3	0.0	6.7	43.0
Motor & Pump P 56A/B	CNEL	93.7		189.7	-56.6	2.6	-2.0	-1.6	-0.47	0.0	0.0	35.6	0.0	6.7	42.3
Motor & Pump P 120/121	CNEL	96.2	2	236.4	-58.5	2.7	-14.8	-0.8	-0.81	0.0	0.0	24.0	0.0	6.7	30.7
Motor & Pump P 211/212	CNEL	93.7		173.1	-55.8	2.5	-5.7	-1.3	-0.65	0.0	0.0	32.8	0.0	6.7	39.4
Motor & Pump P 215/214	CNEL	94.6		177.9	-56.0	2.5	-7.4	-1.1	-0.78	0.0	0.0	31.9	0.0	6.7	38.6
Motor & Pump P 216	CNEL	98.3		176.4	-55.9	2.4	-4.8	-1.4	-0.68	0.0	1.1	39.1	0.0	6.7	45.8
Motor & Pump P 217/218	CNEL	93.7		175.0	-55.9	2.5	-6.5	-1.2	-0.70	0.0	0.0	31.9	0.0	6.7	38.6
Motor & Pump P 300	CNEL	97.1	2	242.2	-58.7	2.7	-17.1	-0.8	-1.05	0.0	0.2	22.4	0.0	6.7	29.0
Motor & Pump P 301	CNEL	102.1	2	240.6	-58.6	2.7	-17.1	-0.8	-1.07	0.0	0.0	27.3	0.0	6.7	34.0
Motor & Pump P 302	CNEL	97.1	2	243.9	-58.7	2.7	-17.0	-0.8	-1.02	0.0	1.2	23.5	0.0	6.7	30.1
Motor & Pump P 303	CNEL	97.1	2	245.4	-58.8	2.7	-16.7	-0.8	-1.00	0.0	1.8	24.3	0.0	6.7	31.0
Motor & Pump P 305	CNEL	97.5	2	246.8	-58.8	2.7	-16.5	-0.8	-0.98	0.0	2.4	25.5	0.0	6.7	32.1
Motor & Pump P 306	CNEL	112.6	4	255.4	-59.1	2.7	-13.7	-0.7	-0.90	0.0	0.7	41.5	0.0	6.7	48.2
Motor & Pump P 307	CNEL	102.1	2	236.0	-58.5	2.7	-14.7	-0.8	-1.15	0.0	0.0	29.6	0.0	6.7	36.3
Motor & Pump P 309	CNEL	97.5	2	248.2	-58.9	2.7	-16.2	-0.8	-0.96	0.0	2.1	25.4	0.0	6.7	32.1
Motor & Pump P 312	CNEL	101.5	2	215.4	-57.7	2.6	-2.5	-1.0	-1.25	0.0	0.4	42.1	0.0	6.7	48.8
Motor & Pump P 313	CNEL	101.5	2	213.7	-57.6	2.6	-2.8	-1.0	-1.25	0.0	0.4	41.9	0.0	6.7	48.6
Motor & Pump P 315	CNEL	102.9	2	207.8	-57.3	2.6	-3.6	-1.0	-1.25	0.0	1.2	43.5	0.0	6.7	50.2
Motor & Pump P 316	CNEL	102.9	2	205.9	-57.3	2.6	-3.8	-1.0	-1.26	0.0	1.4	43.6	0.0	6.7	50.3
Motor & Pump P 317	CNEL	102.9	2	204.1	-57.2	2.6	-3.9	-1.0	-1.26	0.0	1.5	43.6	0.0	6.7	50.3
Motor & Pump P 318	CNEL	100.2	1	209.5	-57.4	2.6	-3.3	-1.0	-1.25	0.0	0.4	40.2	0.0	6.7	46.9
Motor & Pump P 319	CNEL	100.2	1	210.8	-57.5	2.6	-3.1	-1.0	-1.25	0.0	0.4	40.4	0.0	6.7	47.1
Motor & Pump P 327	CNEL	111.2	3	263.2	-59.4	2.7	-21.5	-1.5	-0.13	0.0	3.0	34.4	0.0	6.7	41.1
Motor & Pump P 328	CNEL	109.9	5	249.8	-58.9	2.7	-14.9	-0.8	-0.91	0.0	0.4	37.5	0.0	6.7	44.2
Motor & Pump P 329	CNEL	110.2	5	252.6	-59.0	2.7	-14.9	-0.8	-0.85	0.0	0.9	38.1	0.0	6.7	44.8
Motor & Pump P 451	CNEL	93.7		165.2	-55.4	2.5	-6.6	-1.1		0.0	0.0	33.2	0.0	6.7	39.8
Motor & Pump P 453	CNEL	93.7		153.3	-54.7	2.5	0.0	-1.5		0.0	0.0	40.0	0.0	6.7	46.7
Motor & Pump P 454	CNEL	93.7		166.1	-55.4	2.5	-5.9	-0.9		0.0	2.1	36.0	0.0	6.7	42.7
Motor & Pump P 457	CNEL	93.7		151.8	-54.6	2.5	0.0	-1.5		0.0	0.0	40.1	0.0	6.7	46.8
Motor & Pump P 458	CNEL	93.7		164.9	-55.3	2.5	-3.8	-1.1		0.0	0.0	35.9	0.0	6.7	42.6
Motor & Pump P 459	CNEL	93.7		167.0	-55.4	2.5	-5.8	-0.9		0.0	2.1	36.1	0.0	6.7	42.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.3	-56.6	2.6	-9.7	-0.9		0.0	0.0	31.7	0.0	6.7	38.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.9	-56.7	2.6	-6.5	-1.1		0.0	0.0	34.6	0.0	6.7	41.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.9	-58.0	2.7	-11.3	-1.1	-0.85	0.0	0.0	26.9	0.0	6.7	33.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		225.1	-58.0	2.7	-11.1	-1.1	-0.87	0.0	0.0	27.1	0.0	6.7	33.7
Motor & Pump P 1601 A	CNEL	96.3	2	188.3	-56.5	2.7	-15.7	-1.0		0.0	0.0	25.8	0.0	6.7	32.5
Motor & Pump P 1601 B	CNEL	96.3	2	188.3	-56.5	2.7	-16.4	-1.0		0.0	0.1	25.1	0.0	6.7	31.8
Motor & Pump P 1602 A	CNEL	96.3	2	188.1	-56.5	2.7	-16.7	-1.0		0.0	0.1	24.8	0.0	6.7	31.5
Motor & Pump P 1602 B	CNEL	96.5	2	188.1	-56.5	2.7	-16.9	-1.1		0.0	0.0	24.8	0.0	6.7	31.4
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.6	-56.5	2.7	-16.7	-0.9	-0.08	0.0	0.0	25.1	0.0	6.7	31.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.4	-56.8	2.7	-15.2	-0.9	-0.19	0.0	0.0	26.2	0.0	6.7	32.9
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.8	-56.9	2.7	-14.6	-0.9	-0.24	0.0	0.0	26.7	0.0	6.7	33.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.3	-56.7	2.6	-2.7	-1.6		0.0	0.0	38.3	0.0	6.7	45.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	195.1	-56.8	2.7	-2.6	-1.6		0.0	0.0	38.3	0.0	6.7	45.0
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.3	-57.1	2.7	0.0	-1.8	-0.27	0.0	0.0	39.8	0.0	6.7	46.5
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.5	-57.1	2.7	-7.3	-1.1	-0.35	0.0	0.0	33.1	0.0	6.7	39.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.8	-57.1	2.7	-13.2	-0.9	-0.35	0.0	0.0	27.4	0.0	6.7	34.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.6	-57.1	2.7	-12.0	-1.0	-0.35	0.0	0.0	28.6	0.0	6.7	35.3
P602 100 HP	CNEL	94.1		180.7	-56.1	2.4	-8.9	-0.5		0.0	0.0	30.9	0.0	6.7	37.6
P603 60 HP	CNEL	95.0		175.1	-55.9	2.4	-10.5	-0.8		0.0	0.0	30.3	0.0	6.7	36.9
P605 40 HP	CNEL	95.0		176.5	-55.9	2.4	-10.5	-0.8		0.0	0.0	30.2	0.0	6.7	36.9
P607 15 HP	CNEL	90.5		186.3	-56.4	2.4	-9.2	-0.6		0.0	0.3	27.0	0.0	6.7	33.7
P608 15 HP	CNEL	90.5		189.0	-56.5	2.4	-9.2	-0.6		0.0	0.0	26.7	0.0	6.7	33.3
P611 15 HP	CNEL	90.5		183.5	-56.3	2.4	-9.4	-0.6		0.0	0.0	26.7	0.0	6.7	33.4
P614/615 20 HP	CNEL	93.0		178.8	-56.0	2.4	-17.3	-0.5		0.0	0.2	21.8	0.0	6.7	28.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.8	-50.0	0.7	-0.2	-0.3		0.0	0.2	85.1	-38.6	0.0	46.6
Scanner Blower C-084A/B	CNEL	95.5		118.7	-52.5	2.6	-9.1	-0.4		0.0	2.8	38.8	0.0	6.7	45.5
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	115.1	-52.2	2.4	-9.2	-0.1		0.0	3.9	16.4	0.0	6.7	23.0
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	113.8	-52.1	2.4	-5.8	-0.1		0.0	1.4	15.6	0.0	6.7	22.3
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	113.2	-52.1	1.9	-3.3	-0.1		0.0	0.6	16.5	0.0	6.7	23.2
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	111.9	-52.0	2.4	-1.2	-0.1		0.0	0.0	20.7	0.0	6.7	27.3
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	111.8	-52.0	2.5	0.0	-0.2		0.0	0.0	22.3	0.0	6.7	28.9
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	120.6	-52.6	2.4	-11.0	-0.2		0.0	0.2	18.9	0.0	6.7	25.6
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	122.5	-52.8	2.4	-12.9	-0.1		0.0	0.3	16.1	0.0	6.7	22.8
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	121.0	-52.6	2.3	-13.0	-0.1		0.0	4.9	31.5	0.0	6.7	38.2
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	122.5	-52.8	2.4	-12.7	-0.1		0.0	3.7	22.1	0.0	6.7	28.8
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	119.6	-52.5	2.0	-4.7	-0.2		0.0	0.9	30.9	0.0	6.7	37.5
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	118.2	-52.4	2.3	-5.8	-0.2		0.0	0.1	34.1	0.0	6.7	40.8
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	121.2	-52.7	2.4	-7.0	-0.2		0.0	0.1	24.1	0.0	6.7	30.8
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	128.0	-53.1	2.5	-17.6	-0.4		0.0	7.5	38.2	0.0	6.7	44.8
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	126.4	-53.0	2.5	-18.3	-0.4		0.0	9.1	44.6	0.0	6.7	51.3
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	125.0	-52.9	2.2	-4.9	-1.0		0.0	1.6	46.3	0.0	6.7	52.9
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	123.5	-52.8	2.5	-8.0	-0.6		0.0	0.3	46.1	0.0	6.7	52.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	123.3	-52.8	2.5	-17.3	-0.6		0.0	9.9	35.1	0.0	6.7	41.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	121.1	-52.7	2.5	-7.9	-0.6		0.0	1.8	36.8	0.0	6.7	43.4
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	115.6	-52.3	2.0	-4.7	-0.2		0.0	0.7	23.6	0.0	6.7	30.3
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	119.5	-52.5	2.4	-11.8	-0.1		0.0	3.1	12.8	0.0	6.7	19.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	118.5	-52.5	2.3	-12.0	-0.1		0.0	5.2	21.9	0.0	6.7	28.6
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	116.3	-52.3	2.3	-10.3	-0.1		0.0	5.4	18.4	0.0	6.7	25.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	115.6	-52.2	2.3	-5.7	-0.1		0.0	0.0	18.1	0.0	6.7	24.7
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	113.1	-52.1	2.3	-4.6	-0.1		0.0	0.0	24.4	0.0	6.7	31.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	112.0	-52.0	2.3	-2.0	-0.1		0.0	0.0	21.5	0.0	6.7	28.2
Tank Farm Pump 1	CNEL	99.0	3	294.5	-60.4	3.0	-4.2	-1.9		0.0	0.0	35.5	0.0	6.7	42.2
Tank Farm Pump 2	CNEL	99.0	3	312.8	-60.9	3.2	-2.5	-2.2		0.0	0.0	36.5	0.0	6.7	43.2
Tank Farm Pump 3	CNEL	99.0	3	317.8	-61.0	3.2	-3.8	-2.6		0.0	0.0	34.8	0.0	6.7	41.4
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	132.1	-53.4	1.2	0.0	-1.8		0.0	0.1	58.5	-16.8	0.0	41.7
Vaporizer Blower 1	CNEL	88.7		122.6	-52.8	2.6	-18.5	-0.5		0.0	12.0	31.4	0.0	6.7	38.1
Vaporizer Blower 2	CNEL	88.7		123.1	-52.8	2.6	-18.1	-0.5		0.0	11.6	31.4	0.0	6.7	38.1
Vaporizer Inlet Silencer	CNEL	73.7		123.5	-52.8	2.3	-11.0	-0.2		0.0	4.1	16.1	0.0	6.7	22.7
Vaporizer Motor 1	CNEL	83.6		122.4	-52.7	2.6	-19.1	-0.7		0.0	12.6	26.3	0.0	6.7	32.9
Vaporizer Motor 2	CNEL	83.6		122.9	-52.8	2.6	-18.7	-0.7		0.0	14.2	28.2	0.0	6.7	34.9
Water Treatment Pumps P-056A&B	CNEL	93.0		105.3	-51.4	2.5	-14.7	-0.6		0.0	1.7	30.6	0.0	6.7	37.2
XF-1502 Splitter Area 1	CNEL	104.5		198.0	-56.9	2.4	-1.8	-1.8	0.00	-4.4	0.0	41.8	0.0	6.7	48.5
XF-1502 Splitter Area 2	CNEL	104.5		194.3	-56.8	2.3	-1.7	-1.8		-4.5	0.0	42.1	0.0	6.7	48.8
XF-1504 Splitter Area 1	CNEL	104.5		197.6	-56.9	2.4	0.0	-1.4	-0.02	-4.2	0.0	44.3	0.0	6.7	51.0
XF-1504 Splitter Area 2	CNEL	104.5		193.9	-56.7	2.3	0.0	-1.4		-4.2	0.0	44.5	0.0	6.7	51.2
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	2.3	-0.8	-0.9		-2.9	0.1	49.7	0.0	6.7	56.3
XF 313, XF 314	CNEL	113.0	18	270.4	-59.6	2.5	-3.1	-0.9	-0.41	-3.5	0.0	47.9	0.0	6.7	54.6
XF 335-1, XF 335-2	CNEL	113.4	54	253.0	-59.1	2.3	-4.1	-1.2	0.00	-2.9	0.6	49.2	0.0	6.7	55.8
XF 503	CNEL	113.0	21	187.6	-56.5	2.1	0.0	-2.5	-1.11	-3.9	0.0	51.2	0.0	6.7	57.9
XF - 1601	CNEL	96.6		187.0	-56.4	2.3	0.0	-0.6		-2.5	0.0	39.4	0.0	6.7	46.0
XF - 1602	CNEL	96.6		187.1	-56.4	2.4	0.0	-0.6		-2.5	0.0	39.4	0.0	6.7	46.0
XF Module 1510	CNEL	108.3		191.2	-56.6	2.3	-4.3	-1.5	-0.10	-4.3	0.0	43.9	0.0	6.7	50.5
XF Module 1519	CNEL	109.0		196.5	-56.9	2.3	-4.3	-1.5	-0.21	-4.2	0.0	44.2	0.0	6.7	50.9
xxxx xxxx xxxx xxxx	CNEL		606								2.0				29.2
xxxx xxxx xxxx xxxx	CNEL		606								2.1				29.3
xxxx xxxx xxxx xxxx	CNEL		917								1.8				42.2
xxxx xxxx xxxx xxxx	CNEL		917								1.3				41.5
xxxx xxxx xxxx xxxx	CNEL		608								0.8				34.2
xxxx xxxx xxxx xxxx	CNEL		608								0.7				34.1
xxxx xxxx xxxx xxxx	CNEL		1172								2.3				45.5
xxxx xxxx xxxx xxxx	CNEL		520								2.0				27.9
xxxx xxxx xxxx xxxx	CNEL		572								2.6				41.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.5 dB(A)			Ld 7-19 dB(A)		Leq,N 64.2 dB(A)		Le 19-22 dB(A)		CNEL 70.9 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	143.3	-54.1	2.3	-1.1	0.0		0.0	0.0	40.5	0.0	6.7	47.2
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	89.1	-50.0	1.2	-0.3	-1.9		0.0	0.1	58.1	-10.8	0.0	47.3
Air Compressor C 1	CNEL	110.0	5	294.8	-60.4	3.1	-3.6	-1.2	-0.56	0.0	1.7	49.1	0.0	6.7	55.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		126.4	-53.0	2.2	-19.0	-1.8		0.0	6.3	35.1	0.0	6.7	41.7
Asphalt Production	CNEL	113.8	1206	120.3	-52.6	1.8	-1.5	-1.9		0.0	0.1	59.7	0.0	6.7	66.4
BFW Pumps P-073A&B	CNEL	95.8		126.9	-53.1	2.5	-18.5	-0.9		0.0	5.7	31.5	0.0	6.7	38.2
Blower F 401	CNEL	113.0		191.0	-56.6	0.7	-12.5	-0.3		0.0	1.1	45.3	0.0	6.7	52.0
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.5	-54.9	1.7	-4.8	-0.8		0.0	0.0	39.8	0.0	6.7	46.5
Brine Transfer P-085	CNEL	96.2		127.2	-53.1	2.9	-16.3	-0.8		0.0	0.2	29.2	0.0	6.7	35.9
Burner H301 North	CNEL	96.1	10	333.2	-61.4	3.3	-20.6	-1.5	-1.71	0.0	2.3	19.4	0.0	6.7	26.1
Burner H301 South	CNEL	95.9	10	330.2	-61.4	3.3	-6.9	-1.8	-1.70	0.0	0.2	30.7	0.0	6.7	37.4
Burner H302 North	CNEL	97.0	13	320.8	-61.1	3.2	-20.1	-1.4	-0.87	0.0	1.7	21.5	0.0	6.7	28.2
Burner H302 South	CNEL	97.0	13	318.3	-61.0	3.2	-9.8	-1.3	-1.26	0.0	0.5	30.3	0.0	6.7	37.0
Burner H303 North	CNEL	97.0	13	288.8	-60.2	2.9	-22.7	-1.6	-0.44	0.0	8.3	26.4	0.0	6.7	33.0
Burner H303 South	CNEL	97.0	13	285.9	-60.1	2.9	-10.8	-1.0	-0.49	0.0	0.3	30.7	0.0	6.7	37.4
Burner H304 North	CNEL	97.0	13	296.9	-60.4	3.0	-22.2	-1.5	-0.40	0.0	4.4	22.8	0.0	6.7	29.5
Burner H304 South	CNEL	97.0	13	294.0	-60.4	3.0	-14.5	-1.1	-0.77	0.0	2.3	28.5	0.0	6.7	35.2
Burner H305 North	CNEL	96.3	11	303.9	-60.6	3.1	-21.2	-1.5	-0.40	0.0	8.7	27.4	0.0	6.7	34.0
Burner H305 South	CNEL	96.3	11	301.0	-60.6	3.1	-17.2	-1.2	-0.44	0.0	0.9	23.9	0.0	6.7	30.5
Burner H306 North	CNEL	95.0	8	311.4	-60.9	3.2	-20.6	-1.4	-0.36	0.0	6.5	24.4	0.0	6.7	31.1
Burner H306 South	CNEL	95.1	8	308.7	-60.8	3.1	-9.0	-1.3	-1.39	0.0	0.1	28.8	0.0	6.7	35.5
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.8	-58.7	1.8	-13.3	-1.0	-0.74	2.9	3.6	39.3	0.0	6.7	45.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	1.9	-4.0	-1.6	-1.14	0.0	0.4	37.5	0.0	6.7	44.1
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.6	-59.0	1.8	-17.7	-0.6	-0.89	-7.8	13.6	36.0	0.0	6.7	42.6
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.4	-58.8	1.7	-11.6	-1.2	-0.58	1.8	0.0	42.1	0.0	6.7	48.7
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.7	-58.7	1.8	-10.1	-0.9	-0.99	1.5	0.7	37.2	0.0	6.7	43.8
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.3	-59.1	1.9	-16.3	-0.6	-0.35	-7.4	0.1	18.6	0.0	6.7	25.3
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.3	-3.1	-1.7		4.3	0.0	42.1	0.0	6.7	48.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.6	-57.7	2.2	-18.4	-0.7		-5.4	0.0	17.9	0.0	6.7	24.6
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.5	-57.2	2.0	-0.5	-1.6		4.7	0.0	47.9	0.0	6.7	54.6
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.6	-57.4	2.1	-11.3	-0.8		-4.5	0.0	28.7	0.0	6.7	35.4
Cooling Tower M 512	CNEL	95.7		208.5	-57.4	3.1	-0.3	-1.2		0.0	2.4	42.4	0.0	6.7	49.1
Cooling Tower M 513	CNEL	95.7		208.8	-57.4	3.0	-5.6	-1.0		0.0	5.5	40.2	0.0	6.7	46.8
Cooling Tower M 514	CNEL	95.7		207.9	-57.3	3.1	-0.3	-1.1		0.0	2.4	42.4	0.0	6.7	49.1
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	173.3	-55.8	3.0	-4.9	-2.1		0.0	0.1	54.0	0.0	6.7	60.7
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	173.3	-55.8	2.1	-4.6	-2.1		0.0	0.1	53.5	0.0	6.7	60.2
CT Y-600-CT Y-600 North	CNEL	96.4	51	113.2	-52.1	1.4	-17.8	-0.4		0.0	0.1	30.6	0.0	6.7	37.3
CT Y-600-CT Y-600 South	CNEL	96.4	52	108.8	-51.7	1.0	-0.1	-1.0		0.0	0.0	47.7	0.0	6.7	54.4
Deaerator Skid P-058A&B	CNEL	96.2		138.7	-53.8	1.7	-0.1	-1.3		0.0	0.0	42.6	0.0	6.7	49.3
Exhaust Stack	CNEL	100.6		140.6	-54.0	1.0	0.0	-0.2		-0.1	0.0	47.4	0.0	6.7	54.1
F.G. After Cooler XF-083ABC	CNEL	100.2		129.5	-53.2	1.7	-11.3	-0.3		0.0	2.2	39.3	0.0	6.7	46.0
Fan Y-600	CNEL	107.5		111.1	-51.9	1.1	-10.1	-0.3		0.0	0.0	46.3	0.0	6.7	53.0
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	132.1	-53.4	1.0	-5.1	-0.1		0.0	0.1	24.8	0.0	6.7	31.5
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	133.9	-53.5	1.7	-7.6	0.0		0.0	0.0	21.2	0.0	6.7	27.9
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	131.4	-53.4	2.4	-16.3	-0.6		0.0	0.2	6.5	0.0	6.7	13.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	135.4	-53.6	1.7	-9.8	0.0		0.0	0.1	22.0	0.0	6.7	28.7
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	128.7	-53.2	1.6	-2.6	-0.1		0.0	0.0	20.6	0.0	6.7	27.3
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	130.4	-53.3	1.6	-3.7	-0.1		0.0	0.0	25.4	0.0	6.7	32.1
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	128.7	-53.2	2.3	-7.9	-1.1		0.0	1.8	16.1	0.0	6.7	22.8
Fin Fan XF 616 - Above	CNEL	96.0	75	139.0	-53.9	0.9	0.0	-0.4		-15.4	0.0	27.3	0.0	6.7	34.0
Fin Fan XF 616 - Below	CNEL	108.0	75	138.9	-53.8	1.0	0.0	-0.6		-6.1	0.0	48.5	0.0	6.7	55.2
Fin Fan XF 617 - Above	CNEL	93.0	21	146.7	-54.3	0.9	0.0	-0.4		-15.3	0.0	23.8	0.0	6.7	30.5
Fin Fan XF 617 - Below	CNEL	104.0	21	146.6	-54.3	1.0	0.0	-0.6		-6.1	0.0	44.0	0.0	6.7	50.6
Heater # 5-Heater	CNEL	91.1	13	160.9	-55.1	1.9	-0.4	-0.9		0.0	0.0	39.6	0.0	6.7	46.2
Heater # 5-Heater	CNEL	91.1	13	156.0	-54.9	1.8	-0.6	-0.9		0.0	0.0	39.5	0.0	6.7	46.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	150.9	-54.6	1.7	-0.6	-0.9		0.0	0.0	39.7	0.0	6.7	46.4
Heater H 601	CNEL	89.1	13	143.0	-54.1	1.2	-0.5	-1.0		0.0	1.0	35.7	0.0	6.7	42.3
Hydro Heater H-402	CNEL	98.1		218.8	-57.8	1.9	-1.0	-1.8		0.0	0.0	39.5	0.0	6.7	46.1
ID Fan	CNEL	110.3		315.7	-61.0	2.0	-18.7	-0.6		0.0	4.6	36.7	0.0	6.7	43.3
ID Fan 200 HP Motor	CNEL	104.4		314.2	-60.9	3.1	-23.3	-2.1		0.0	1.5	22.6	0.0	6.7	29.3
Incinirator Compressor & Motor	CNEL	92.5		230.3	-58.2	2.6	-4.7	-1.2		0.0	0.0	30.9	0.0	6.7	37.6
Incinirator Fin Fan	CNEL	94.8		229.4	-58.2	2.8	-4.7	-1.1		0.0	0.0	33.5	0.0	6.7	40.2
Lub Oil Cooler XF-061	CNEL	100.5		142.1	-54.0	2.0	-18.4	-0.2		0.0	7.6	37.4	0.0	6.7	44.0
Misc pumps motors	CNEL	100.2	332	224.9	-58.0	3.3	-13.2	-1.1		0.0	0.7	31.9	0.0	6.7	38.6
Motor & Pump P 56A/B	CNEL	93.7		236.7	-58.5	3.1	-0.2	-2.2	-0.30	0.0	0.1	35.6	0.0	6.7	42.2
Motor & Pump P 120/121	CNEL	96.2	2	282.8	-60.0	3.4	-16.9	-1.0	-0.35	0.0	0.0	21.4	0.0	6.7	28.1
Motor & Pump P 211/212	CNEL	93.7		224.4	-58.0	2.9	-11.6	-1.1	-0.72	0.0	0.3	25.3	0.0	6.7	32.0
Motor & Pump P 215/214	CNEL	94.6		228.9	-58.2	3.0	-6.1	-1.5	-0.83	0.0	0.0	31.0	0.0	6.7	37.7
Motor & Pump P 216	CNEL	98.3		228.5	-58.2	2.7	-6.4	-1.5	-0.73	0.0	2.5	36.7	0.0	6.7	43.4
Motor & Pump P 217/218	CNEL	93.7		226.2	-58.1	3.2	-11.7	-1.1	-0.77	0.0	1.0	26.1	0.0	6.7	32.8
Motor & Pump P 300	CNEL	97.1	2	290.0	-60.2	3.4	-18.3	-0.9	-0.51	0.0	8.2	28.7	0.0	6.7	35.4
Motor & Pump P 301	CNEL	102.1	2	288.4	-60.2	3.4	-19.2	-1.0	-0.51	0.0	9.6	34.3	0.0	6.7	40.9
Motor & Pump P 302	CNEL	97.1	2	291.6	-60.3	3.4	-17.6	-0.9	-0.52	0.0	4.2	25.4	0.0	6.7	32.0
Motor & Pump P 303	CNEL	97.1	2	293.0	-60.3	3.4	-16.6	-0.9	-0.52	0.0	2.2	24.3	0.0	6.7	31.0
Motor & Pump P 305	CNEL	97.5	2	294.3	-60.4	3.4	-15.5	-0.9	-0.52	0.0	1.5	25.2	0.0	6.7	31.8
Motor & Pump P 306	CNEL	112.6	4	302.5	-60.6	3.0	-16.8	-1.0	-0.30	0.0	1.2	38.1	0.0	6.7	44.8
Motor & Pump P 307	CNEL	102.1	2	284.1	-60.1	3.4	-17.7	-1.0	-0.53	0.0	5.1	31.3	0.0	6.7	37.9
Motor & Pump P 309	CNEL	97.5	2	295.6	-60.4	3.4	-14.7	-0.9	-0.52	0.0	0.6	24.9	0.0	6.7	31.6
Motor & Pump P 312	CNEL	101.5	2	264.6	-59.4	3.3	-5.7	-1.1	-0.96	0.0	1.8	39.4	0.0	6.7	46.1
Motor & Pump P 313	CNEL	101.5	2	263.0	-59.4	3.3	-5.5	-1.0	-0.99	0.0	3.5	41.4	0.0	6.7	48.1
Motor & Pump P 315	CNEL	102.9	2	257.5	-59.2	3.2	-5.3	-1.0	-1.14	0.0	0.5	40.0	0.0	6.7	46.6
Motor & Pump P 316	CNEL	102.9	2	255.8	-59.2	3.2	-5.5	-1.0	-1.18	0.0	1.1	40.3	0.0	6.7	47.0
Motor & Pump P 317	CNEL	102.9	2	254.0	-59.1	3.1	-5.4	-1.0	-1.22	0.0	1.0	40.3	0.0	6.7	47.0
Motor & Pump P 318	CNEL	100.2	1	259.0	-59.3	3.4	-4.8	-1.0	-1.08	0.0	0.1	37.6	0.0	6.7	44.3
Motor & Pump P 319	CNEL	100.2	1	260.3	-59.3	3.4	-6.2	-1.0	-1.06	0.0	2.1	38.1	0.0	6.7	44.8
Motor & Pump P 327	CNEL	111.2	3	310.0	-60.8	3.6	-21.6	-1.7	-0.17	0.0	3.2	33.8	0.0	6.7	40.4
Motor & Pump P 328	CNEL	109.9	5	297.2	-60.5	3.3	-15.4	-1.0	-0.36	0.0	0.8	36.8	0.0	6.7	43.5
Motor & Pump P 329	CNEL	110.2	5	299.8	-60.5	3.4	-16.5	-1.0	-0.29	0.0	1.1	36.3	0.0	6.7	43.0
Motor & Pump P 451	CNEL	93.7		212.1	-57.5	2.9	-3.6	-1.6		0.0	0.0	33.9	0.0	6.7	40.6
Motor & Pump P 453	CNEL	93.7		200.4	-57.0	2.8	-0.2	-2.0		0.0	0.0	37.2	0.0	6.7	43.9
Motor & Pump P 454	CNEL	93.7		213.2	-57.6	2.9	-5.3	-1.4		0.0	0.0	32.3	0.0	6.7	39.0
Motor & Pump P 457	CNEL	93.7		199.1	-57.0	2.7	-0.2	-2.0		0.0	0.0	37.2	0.0	6.7	43.9
Motor & Pump P 458	CNEL	93.7		211.6	-57.5	2.9	-0.2	-2.1		0.0	0.0	36.7	0.0	6.7	43.4
Motor & Pump P 459	CNEL	93.7		214.1	-57.6	2.9	-3.6	-1.7		0.0	0.0	33.6	0.0	6.7	40.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		232.9	-58.3	3.3	-19.8	-1.3		0.0	0.0	20.1	0.0	6.7	26.7
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.5	-58.4	3.3	-15.8	-1.1		0.0	0.0	24.2	0.0	6.7	30.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.5	-59.4	3.6	-11.3	-1.2	-0.64	0.0	4.4	30.9	0.0	6.7	37.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.6	-59.4	3.6	-14.6	-1.4	-0.25	0.0	6.7	30.0	0.0	6.7	36.7
Motor & Pump P 1601 A	CNEL	96.3	2	225.2	-58.0	3.1	-19.0	-1.1		0.0	0.0	21.4	0.0	6.7	28.0
Motor & Pump P 1601 B	CNEL	96.3	2	224.9	-58.0	3.1	-18.9	-1.1		0.0	0.0	21.5	0.0	6.7	28.1
Motor & Pump P 1602 A	CNEL	96.3	2	224.4	-58.0	3.1	-18.7	-1.1		0.0	0.0	21.7	0.0	6.7	28.3
Motor & Pump P 1602 B	CNEL	96.5	2	224.1	-58.0	3.1	-18.1	-1.1		0.0	0.0	22.4	0.0	6.7	29.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.4	-58.2	3.4	-17.7	-1.0	-0.08	0.0	0.0	23.0	0.0	6.7	29.6
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.1	-58.4	3.4	-14.8	-1.0	-0.19	0.0	0.0	25.6	0.0	6.7	32.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.4	-58.5	3.5	-14.3	-1.1	-0.25	0.0	0.0	26.0	0.0	6.7	32.6
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.7	-58.4	3.3	-16.5	-1.1		0.0	0.0	24.1	0.0	6.7	30.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.4	-58.5	3.4	-15.3	-1.1	-0.01	0.0	0.0	25.1	0.0	6.7	31.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.4	-58.6	3.5	-14.1	-1.1	-0.08	0.0	0.0	26.0	0.0	6.7	32.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.0	-58.6	3.5	-6.3	-1.4	-0.25	0.0	0.0	33.3	0.0	6.7	39.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.1	-58.7	3.5	-15.1	-1.3	-0.21	0.0	0.0	24.5	0.0	6.7	31.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.6	-58.7	3.5	-3.8	-1.9	-0.35	0.0	0.0	35.0	0.0	6.7	41.7
P602 100 HP	CNEL	94.1		132.5	-53.4	2.0	-0.1	-0.7		0.0	0.0	41.8	0.0	6.7	48.5
P603 60 HP	CNEL	95.0		127.0	-53.1	2.2	-0.1	-0.9		0.0	0.0	43.2	0.0	6.7	49.8
P605 40 HP	CNEL	95.0		128.4	-53.2	2.2	-0.1	-0.9		0.0	0.0	43.1	0.0	6.7	49.7
P607 15 HP	CNEL	90.5		138.1	-53.8	2.4	-0.2	-0.7		0.0	0.0	38.3	0.0	6.7	44.9
P608 15 HP	CNEL	90.5		140.8	-54.0	2.5	-0.2	-0.7		0.0	0.0	38.1	0.0	6.7	44.8
P611 15 HP	CNEL	90.5		135.3	-53.6	2.4	-0.2	-0.7		0.0	0.0	38.4	0.0	6.7	45.1
P614/615 20 HP	CNEL	93.0		132.5	-53.4	1.8	-12.7	-0.4		0.0	0.1	28.3	0.0	6.7	35.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	92.9	-50.3	0.3	-1.1	-0.3		0.0	0.1	83.4	-38.6	0.0	44.8
Scanner Blower C-084A/B	CNEL	95.5		136.2	-53.7	2.1	-11.6	-0.5		0.0	2.9	34.8	0.0	6.7	41.4
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	141.2	-54.0	1.9	-11.6	-0.1		0.0	1.9	9.7	0.0	6.7	16.4
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	140.9	-54.0	1.9	-9.1	-0.1		0.0	1.1	9.7	0.0	6.7	16.4
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	139.6	-53.9	1.2	-3.5	-0.1		0.0	0.6	13.8	0.0	6.7	20.5
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	137.9	-53.8	1.8	-4.9	-0.1		0.0	0.0	14.6	0.0	6.7	21.3
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	138.8	-53.8	1.8	-6.1	-0.1		0.0	0.0	13.6	0.0	6.7	20.2
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	137.6	-53.8	1.8	-7.3	-0.2		0.0	0.0	20.7	0.0	6.7	27.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	139.9	-53.9	1.9	-14.7	-0.1		0.0	4.2	16.6	0.0	6.7	23.3
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	140.2	-53.9	1.9	-15.1	-0.1		0.0	4.5	27.3	0.0	6.7	34.0
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	139.6	-53.9	1.9	-15.2	-0.1		0.0	4.4	18.9	0.0	6.7	25.6
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	138.6	-53.8	1.2	-4.6	-0.3		0.0	1.0	29.0	0.0	6.7	35.6
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	137.1	-53.7	1.8	-7.0	-0.2		0.0	0.0	31.0	0.0	6.7	37.7
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	138.1	-53.8	1.9	-7.0	-0.2		0.0	0.0	22.3	0.0	6.7	29.0
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	139.9	-53.9	2.2	-17.4	-0.5		0.0	1.3	30.9	0.0	6.7	37.6
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	140.9	-54.0	2.2	-19.3	-0.5		0.0	9.1	42.2	0.0	6.7	48.9
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	139.3	-53.9	1.6	-6.4	-0.8		0.0	1.7	43.6	0.0	6.7	50.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	137.6	-53.8	2.2	-10.5	-0.6		0.0	0.1	42.1	0.0	6.7	48.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	140.1	-53.9	2.1	-21.5	-0.6		0.0	11.1	30.6	0.0	6.7	37.3
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	137.7	-53.8	2.1	-10.5	-0.6		0.0	2.4	33.3	0.0	6.7	40.0
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	138.9	-53.8	1.1	-4.5	-0.2		0.0	1.0	21.5	0.0	6.7	28.2
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	140.8	-54.0	1.9	-13.4	-0.1		0.0	2.9	9.2	0.0	6.7	15.8
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	141.8	-54.0	1.8	-14.4	-0.1		0.0	4.0	16.3	0.0	6.7	22.9
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	141.5	-54.0	1.7	-13.4	-0.1		0.0	3.5	11.2	0.0	6.7	17.9
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	136.6	-53.7	1.7	-6.8	-0.2		0.0	0.0	14.9	0.0	6.7	21.5
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	136.1	-53.7	1.7	-6.7	-0.2		0.0	0.0	20.2	0.0	6.7	26.8
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	137.0	-53.7	1.7	-5.9	-0.2		0.0	0.0	15.2	0.0	6.7	21.9
Tank Farm Pump 1	CNEL	99.0	3	274.9	-59.8	4.0	-5.8	-1.5		0.0	0.5	36.4	0.0	6.7	43.1
Tank Farm Pump 2	CNEL	99.0	3	290.7	-60.3	4.1	-11.0	-1.4		0.0	0.0	30.5	0.0	6.7	37.1
Tank Farm Pump 3	CNEL	99.0	3	295.1	-60.4	4.1	-17.3	-1.4		0.0	0.1	24.0	0.0	6.7	30.7
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	176.5	-55.9	1.2	-0.2	-2.3		0.0	0.1	55.2	-16.8	0.0	38.4
Vaporizer Blower 1	CNEL	88.7		141.7	-54.0	2.7	-23.0	-0.6		0.0	12.8	26.6	0.0	6.7	33.3
Vaporizer Blower 2	CNEL	88.7		142.5	-54.1	2.7	-22.7	-0.6		0.0	12.3	26.5	0.0	6.7	33.2
Vaporizer Inlet Silencer	CNEL	73.7		142.2	-54.1	1.6	-14.0	-0.1		0.0	5.8	12.9	0.0	6.7	19.6
Vaporizer Motor 1	CNEL	83.6		141.8	-54.0	2.8	-23.7	-0.8		0.0	13.5	21.4	0.0	6.7	28.1
Vaporizer Motor 2	CNEL	83.6		142.5	-54.1	2.8	-23.4	-0.8		0.0	13.1	21.3	0.0	6.7	28.0
Water Treatment Pumps P-056A&B	CNEL	93.0		128.9	-53.2	2.8	-17.3	-0.8		0.0	4.1	28.6	0.0	6.7	35.3
XF-1502 Splitter Area 1	CNEL	104.5		238.3	-58.5	1.6	-4.1	-1.5	0.00	-4.1	0.0	37.9	0.0	6.7	44.6
XF-1502 Splitter Area 2	CNEL	104.5		234.7	-58.4	1.6	-5.7	-1.1		-3.9	0.0	36.9	0.0	6.7	43.6
XF-1504 Splitter Area 1	CNEL	104.5		237.1	-58.5	1.6	-1.3	-2.1	-0.08	-4.6	0.0	39.6	0.0	6.7	46.3
XF-1504 Splitter Area 2	CNEL	104.5		233.5	-58.4	1.6	0.0	-1.7		-4.5	0.0	41.6	0.0	6.7	48.3
XF 304, XF 321	CNEL	110.5	56	290.4	-60.3	0.7	-1.2	-1.1	-0.24	-3.3	0.1	45.2	0.0	6.7	51.8
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	1.5	-5.3	-1.1	-0.21	-3.7	0.2	43.3	0.0	6.7	50.0
XF 335-1, XF 335-2	CNEL	113.4	54	301.2	-60.6	1.0	-3.5	-1.4	-0.01	-3.2	0.3	46.0	0.0	6.7	52.7
XF 503	CNEL	113.0	21	237.0	-58.5	1.1	-2.1	-3.0	-0.86	-4.0	0.0	45.6	0.0	6.7	52.3
XF - 1601	CNEL	96.6		223.8	-58.0	1.2	0.0	-0.8		-3.0	0.0	35.9	0.0	6.7	42.6
XF - 1602	CNEL	96.6		222.6	-57.9	1.2	0.0	-0.8		-3.0	0.0	36.0	0.0	6.7	42.7
XF Module 1510	CNEL	108.3		232.9	-58.3	1.5	0.0	-1.6	-0.10	-4.5	0.0	45.2	0.0	6.7	51.9
XF Module 1519	CNEL	109.0		238.0	-58.5	1.5	0.0	-1.7	-0.22	-4.5	0.0	45.6	0.0	6.7	52.3
xxxx xxxx xxxx xxxx	CNEL		606								1.1				27.9
xxxx xxxx xxxx xxxx	CNEL		606								1.1				27.9
xxxx xxxx xxxx xxxx	CNEL		917								1.7				44.4
xxxx xxxx xxxx xxxx	CNEL		917								1.7				44.2
xxxx xxxx xxxx xxxx	CNEL		608								1.1				29.7
xxxx xxxx xxxx xxxx	CNEL		608								1.2				29.6
xxxx xxxx xxxx xxxx	CNEL		1172								2.4				46.5
xxxx xxxx xxxx xxxx	CNEL		520								2.3				22.7
xxxx xxxx xxxx xxxx	CNEL		572								2.6				35.2

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-5 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.1 dB(A) Ld 7-19 dB(A) Leq,N 64.8 dB(A) Le 19-22 dB(A) CNEL 71.5 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	143.2	-54.1	2.5	-1.2	0.0		0.0	0.0	40.6	0.0	6.7	47.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	89.2	-50.0	1.2	-0.2	-1.9		0.0	0.1	58.3	-10.8	0.0	47.5
Air Compressor C 1	CNEL	110.0	5	294.8	-60.4	3.4	-3.4	-1.1	-0.57	0.0	1.7	49.7	0.0	6.7	56.3
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		126.5	-53.0	2.5	-18.8	-1.7		0.0	6.8	36.0	0.0	6.7	42.7
Asphalt Production	CNEL	113.8	1206	120.3	-52.6	2.1	-1.5	-1.8		0.0	0.1	60.1	0.0	6.7	66.8
BFW Pumps P-073A&B	CNEL	95.8		126.9	-53.1	2.5	-18.2	-0.9		0.0	6.2	32.3	0.0	6.7	39.0
Blower F 401	CNEL	113.0		191.0	-56.6	2.0	-12.5	-0.3		0.0	1.5	47.1	0.0	6.7	53.8
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.6	-54.9	2.3	-4.7	-0.7		0.0	0.0	40.5	0.0	6.7	47.2
Brine Transfer P-085	CNEL	96.2		127.3	-53.1	2.5	-16.1	-0.7		0.0	0.6	29.4	0.0	6.7	36.0
Burner H301 North	CNEL	96.1	10	333.3	-61.4	3.3	-20.5	-1.4	-1.73	0.0	2.8	20.2	0.0	6.7	26.8
Burner H301 South	CNEL	95.9	10	330.2	-61.4	3.3	-5.9	-1.7	-1.71	0.0	0.2	31.7	0.0	6.7	38.4
Burner H302 North	CNEL	97.0	13	320.8	-61.1	3.2	-19.9	-1.3	-0.87	0.0	1.8	21.7	0.0	6.7	28.3
Burner H302 South	CNEL	97.0	13	318.3	-61.0	3.2	-9.1	-1.4	-1.30	0.0	0.5	30.8	0.0	6.7	37.5
Burner H303 North	CNEL	97.0	13	288.8	-60.2	2.8	-22.5	-1.5	-0.45	0.0	9.7	27.8	0.0	6.7	34.5
Burner H303 South	CNEL	97.0	13	286.0	-60.1	2.8	-10.1	-1.0	-0.49	0.0	0.3	31.4	0.0	6.7	38.0
Burner H304 North	CNEL	97.0	13	297.0	-60.4	2.9	-22.0	-1.5	-0.41	0.0	5.0	23.6	0.0	6.7	30.3
Burner H304 South	CNEL	97.0	13	294.0	-60.4	2.9	-13.3	-1.1	-0.80	0.0	2.5	29.8	0.0	6.7	36.5
Burner H305 North	CNEL	96.3	11	304.0	-60.6	3.0	-21.0	-1.4	-0.42	0.0	9.6	28.5	0.0	6.7	35.1
Burner H305 South	CNEL	96.3	11	301.0	-60.6	3.0	-16.4	-1.2	-0.51	0.0	0.8	24.4	0.0	6.7	31.1
Burner H306 North	CNEL	95.0	8	311.4	-60.9	3.1	-20.5	-1.4	-0.36	0.0	7.0	25.0	0.0	6.7	31.7
Burner H306 South	CNEL	95.1	8	308.8	-60.8	3.1	-8.1	-1.3	-1.40	0.0	0.1	29.6	0.0	6.7	36.2
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.8	-58.7	2.2	-12.9	-0.9	-0.75	2.9	3.6	40.2	0.0	6.7	46.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	2.4	-3.4	-1.8	-1.14	0.0	0.4	38.3	0.0	6.7	44.9
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.7	-59.0	2.3	-16.9	-0.5	-0.92	-7.8	12.7	36.2	0.0	6.7	42.9
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.4	-58.8	2.1	-11.2	-1.1	-0.60	1.8	0.0	43.0	0.0	6.7	49.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.7	-58.7	2.3	-9.4	-0.8	-1.01	1.5	0.6	38.2	0.0	6.7	44.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.4	-59.1	2.2	-15.7	-0.6	-0.36	-7.4	0.1	19.5	0.0	6.7	26.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.5	-2.2	-1.5		4.3	0.0	43.4	0.0	6.7	50.1
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.6	-57.7	2.5	-17.8	-0.6		-5.4	0.0	18.9	0.0	6.7	25.5
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.5	-57.2	2.4	0.0	-1.4		4.7	0.0	49.0	0.0	6.7	55.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.6	-57.4	2.4	-10.3	-0.7		-4.5	0.0	30.2	0.0	6.7	36.8
Cooling Tower M 512	CNEL	95.7		208.5	-57.4	2.5	0.0	-1.1		0.0	2.5	42.2	0.0	6.7	48.8
Cooling Tower M 513	CNEL	95.7		208.9	-57.4	2.5	-5.6	-1.0		0.0	5.6	39.8	0.0	6.7	46.5
Cooling Tower M 514	CNEL	95.7		207.9	-57.3	2.5	0.0	-1.1		0.0	2.4	42.2	0.0	6.7	48.9
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	173.3	-55.8	2.6	-4.6	-2.0		0.0	0.1	54.1	0.0	6.7	60.7
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	173.3	-55.8	2.5	-4.3	-2.0		0.0	0.1	54.3	0.0	6.7	61.0
CT Y-600-CT Y-600 North	CNEL	96.4	51	113.2	-52.1	1.9	-17.5	-0.3		0.0	0.1	31.4	0.0	6.7	38.1
CT Y-600-CT Y-600 South	CNEL	96.4	52	108.8	-51.7	1.5	0.0	-0.9		0.0	0.0	48.3	0.0	6.7	55.0
Deaerator Skid P-058A&B	CNEL	96.2		138.6	-53.8	2.1	-0.1	-1.3		0.0	0.0	43.1	0.0	6.7	49.8
Exhaust Stack	CNEL	100.6		140.4	-53.9	2.0	0.0	-0.2		0.0	0.0	48.4	0.0	6.7	55.1
F.G. After Cooler XF-083ABC	CNEL	100.2		129.5	-53.2	2.3	-10.8	-0.2		0.0	1.9	40.1	0.0	6.7	46.8
Fan Y-600	CNEL	107.5		111.0	-51.9	1.6	-9.6	-0.3		0.0	0.0	47.3	0.0	6.7	54.0
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	132.1	-53.4	1.6	-2.8	-0.1		0.0	0.0	27.7	0.0	6.7	34.4
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	133.9	-53.5	2.1	-7.1	-0.1		0.0	0.0	22.2	0.0	6.7	28.8
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	131.4	-53.4	2.6	-15.0	-0.7		0.0	0.3	8.0	0.0	6.7	14.6
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	135.5	-53.6	2.1	-9.9	-0.1		0.0	0.1	22.4	0.0	6.7	29.1
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	128.8	-53.2	1.8	-1.1	-0.1		0.0	0.0	22.5	0.0	6.7	29.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	130.5	-53.3	2.1	-3.6	-0.1		0.0	0.0	25.9	0.0	6.7	32.6
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	128.7	-53.2	2.5	-7.9	-1.1		0.0	1.8	16.4	0.0	6.7	23.0
Fin Fan XF 616 - Above	CNEL	96.0	75	138.8	-53.8	1.8	0.0	-0.3		-14.2	0.0	29.4	0.0	6.7	36.1
Fin Fan XF 616 - Below	CNEL	108.0	75	138.7	-53.8	1.8	0.0	-0.5		-6.6	0.0	48.9	0.0	6.7	55.6
Fin Fan XF 617 - Above	CNEL	93.0	21	146.5	-54.3	1.9	0.0	-0.4		-14.3	0.0	25.9	0.0	6.7	32.6
Fin Fan XF 617 - Below	CNEL	104.0	21	146.5	-54.3	1.9	0.0	-0.6		-6.6	0.0	44.4	0.0	6.7	51.1
Heater # 5-Heater	CNEL	91.1	13	161.0	-55.1	2.4	0.0	-0.8		0.0	0.0	40.5	0.0	6.7	47.2
Heater # 5-Heater	CNEL	91.1	13	156.0	-54.9	2.3	-0.1	-0.8		0.0	0.0	40.7	0.0	6.7	47.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	150.9	-54.6	2.3	-0.1	-0.8		0.0	0.0	41.0	0.0	6.7	47.6
Heater H 601	CNEL	89.1	13	143.0	-54.1	2.2	-0.2	-0.9		0.0	0.9	37.0	0.0	6.7	43.7
Hydro Heater H-402	CNEL	98.1		218.9	-57.8	2.4	0.0	-1.1		0.0	0.0	41.6	0.0	6.7	48.3
ID Fan	CNEL	110.3		315.7	-61.0	2.6	-18.2	-0.5		0.0	5.0	38.2	0.0	6.7	44.9
ID Fan 200 HP Motor	CNEL	104.4		314.2	-60.9	3.1	-23.2	-2.0		0.0	1.5	22.8	0.0	6.7	29.5
Incinirator Compressor & Motor	CNEL	92.5		230.4	-58.2	2.7	-2.8	-1.7		0.0	0.0	32.4	0.0	6.7	39.1
Incinirator Fin Fan	CNEL	94.8		229.4	-58.2	2.7	-3.0	-1.6		0.0	0.0	34.7	0.0	6.7	41.4
Lub Oil Cooler XF-061	CNEL	100.5		142.1	-54.0	2.5	-15.2	-0.3		0.0	6.7	40.2	0.0	6.7	46.9
Misc pumps motors	CNEL	100.2	332	224.9	-58.0	2.7	-9.9	-1.5		0.0	0.7	34.2	0.0	6.7	40.9
Motor & Pump P 56A/B	CNEL	93.7		236.7	-58.5	2.8	0.0	-2.1	-0.30	0.0	0.1	35.7	0.0	6.7	42.3
Motor & Pump P 120/121	CNEL	96.2	2	282.9	-60.0	3.3	-16.5	-0.9	-0.36	0.0	0.0	21.7	0.0	6.7	28.4
Motor & Pump P 211/212	CNEL	93.7		224.5	-58.0	2.6	-10.9	-1.1	-0.73	0.0	0.3	25.8	0.0	6.7	32.5
Motor & Pump P 215/214	CNEL	94.6		229.0	-58.2	2.7	-5.2	-1.5	-0.84	0.0	0.0	31.5	0.0	6.7	38.2
Motor & Pump P 216	CNEL	98.3		228.5	-58.2	2.5	-5.5	-1.6	-0.73	0.0	2.1	36.9	0.0	6.7	43.6
Motor & Pump P 217/218	CNEL	93.7		226.2	-58.1	2.9	-11.1	-1.1	-0.78	0.0	1.2	26.7	0.0	6.7	33.4
Motor & Pump P 300	CNEL	97.1	2	290.0	-60.2	3.4	-17.9	-0.9	-0.52	0.0	7.7	28.7	0.0	6.7	35.4
Motor & Pump P 301	CNEL	102.1	2	288.5	-60.2	3.3	-18.8	-0.9	-0.52	0.0	9.1	34.1	0.0	6.7	40.8
Motor & Pump P 302	CNEL	97.1	2	291.6	-60.3	3.4	-17.1	-0.8	-0.53	0.0	3.9	25.6	0.0	6.7	32.3
Motor & Pump P 303	CNEL	97.1	2	293.0	-60.3	3.3	-16.1	-0.8	-0.53	0.0	2.3	25.0	0.0	6.7	31.6
Motor & Pump P 305	CNEL	97.5	2	294.3	-60.4	3.4	-14.9	-0.8	-0.53	0.0	1.6	25.8	0.0	6.7	32.5
Motor & Pump P 306	CNEL	112.6	4	302.5	-60.6	3.3	-15.9	-0.9	-0.32	0.0	0.9	39.1	0.0	6.7	45.8
Motor & Pump P 307	CNEL	102.1	2	284.1	-60.1	3.3	-17.4	-0.9	-0.54	0.0	1.6	28.1	0.0	6.7	34.8
Motor & Pump P 309	CNEL	97.5	2	295.7	-60.4	3.4	-14.1	-0.9	-0.53	0.0	0.6	25.6	0.0	6.7	32.3
Motor & Pump P 312	CNEL	101.5	2	264.7	-59.4	3.2	-5.5	-1.0	-0.97	0.0	2.1	39.9	0.0	6.7	46.6
Motor & Pump P 313	CNEL	101.5	2	263.1	-59.4	3.2	-5.2	-1.0	-1.01	0.0	3.6	41.7	0.0	6.7	48.4
Motor & Pump P 315	CNEL	102.9	2	257.6	-59.2	3.0	-3.8	-1.1	-1.14	0.0	0.5	41.2	0.0	6.7	47.9
Motor & Pump P 316	CNEL	102.9	2	255.9	-59.2	3.0	-3.9	-1.1	-1.18	0.0	1.1	41.6	0.0	6.7	48.3
Motor & Pump P 317	CNEL	102.9	2	254.1	-59.1	2.9	-3.9	-1.1	-1.22	0.0	0.9	41.5	0.0	6.7	48.2
Motor & Pump P 318	CNEL	100.2	1	259.1	-59.3	3.2	-3.3	-1.1	-1.08	0.0	0.1	38.8	0.0	6.7	45.4
Motor & Pump P 319	CNEL	100.2	1	260.4	-59.3	3.2	-5.4	-1.0	-1.06	0.0	2.1	38.8	0.0	6.7	45.5
Motor & Pump P 327	CNEL	111.2	3	310.0	-60.8	3.5	-21.5	-1.7	-0.18	0.0	3.4	34.0	0.0	6.7	40.6
Motor & Pump P 328	CNEL	109.9	5	297.2	-60.5	3.3	-14.8	-0.9	-0.38	0.0	0.7	37.5	0.0	6.7	44.1
Motor & Pump P 329	CNEL	110.2	5	299.8	-60.5	3.3	-15.8	-1.0	-0.31	0.0	1.0	36.8	0.0	6.7	43.5
Motor & Pump P 451	CNEL	93.7		212.2	-57.5	2.4	-3.4	-1.5		0.0	0.0	33.6	0.0	6.7	40.3
Motor & Pump P 453	CNEL	93.7		200.5	-57.0	2.4	0.0	-1.8		0.0	0.0	37.2	0.0	6.7	43.8
Motor & Pump P 454	CNEL	93.7		213.2	-57.6	2.4	-5.1	-1.3		0.0	0.0	32.1	0.0	6.7	38.8
Motor & Pump P 457	CNEL	93.7		199.1	-57.0	2.4	0.0	-1.8		0.0	0.0	37.2	0.0	6.7	43.9
Motor & Pump P 458	CNEL	93.7		211.7	-57.5	2.4	0.0	-1.9		0.0	0.0	36.7	0.0	6.7	43.4
Motor & Pump P 459	CNEL	93.7		214.1	-57.6	2.5	-3.5	-1.7		0.0	0.0	33.4	0.0	6.7	40.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		233.0	-58.3	2.9	-19.6	-1.3		0.0	0.0	19.9	0.0	6.7	26.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.5	-58.4	2.9	-15.4	-1.0		0.0	0.0	24.3	0.0	6.7	31.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.6	-59.4	3.3	-10.5	-1.1	-0.65	0.0	3.9	30.9	0.0	6.7	37.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.7	-59.4	3.3	-14.4	-1.3	-0.25	0.0	6.5	29.8	0.0	6.7	36.5
Motor & Pump P 1601 A	CNEL	96.3	2	225.3	-58.0	2.6	-18.5	-1.0		0.0	0.0	21.3	0.0	6.7	28.0
Motor & Pump P 1601 B	CNEL	96.3	2	224.9	-58.0	2.6	-18.5	-1.0		0.0	0.0	21.4	0.0	6.7	28.1
Motor & Pump P 1602 A	CNEL	96.3	2	224.4	-58.0	2.6	-18.3	-1.0		0.0	0.0	21.6	0.0	6.7	28.2
Motor & Pump P 1602 B	CNEL	96.5	2	224.1	-58.0	2.6	-17.8	-1.0		0.0	0.0	22.3	0.0	6.7	29.0
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.5	-58.2	2.9	-14.7	-1.1	-0.08	0.0	0.0	25.4	0.0	6.7	32.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.1	-58.4	3.0	-12.3	-1.1	-0.20	0.0	0.0	27.6	0.0	6.7	34.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.4	-58.5	3.0	-11.8	-1.1	-0.25	0.0	0.0	27.9	0.0	6.7	34.6
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.7	-58.4	2.9	-15.9	-1.0		0.0	0.0	24.3	0.0	6.7	30.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.4	-58.5	2.9	-14.5	-1.1	-0.01	0.0	0.0	25.6	0.0	6.7	32.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.4	-58.6	3.1	-13.6	-1.0	-0.08	0.0	0.0	26.1	0.0	6.7	32.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.0	-58.6	3.1	-4.9	-1.7	-0.25	0.0	0.0	33.9	0.0	6.7	40.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.1	-58.7	3.0	-14.9	-1.2	-0.21	0.0	0.0	24.4	0.0	6.7	31.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.6	-58.7	3.1	-3.7	-1.9	-0.35	0.0	0.0	34.7	0.0	6.7	41.4
P602 100 HP	CNEL	94.1		132.6	-53.4	2.4	0.0	-0.7		0.0	0.0	42.3	0.0	6.7	49.0
P603 60 HP	CNEL	95.0		127.1	-53.1	2.4	0.0	-0.9		0.0	0.0	43.4	0.0	6.7	50.1
P605 40 HP	CNEL	95.0		128.5	-53.2	2.4	0.0	-0.9		0.0	0.0	43.3	0.0	6.7	50.0
P607 15 HP	CNEL	90.5		138.1	-53.8	2.4	0.0	-0.7		0.0	0.0	38.4	0.0	6.7	45.1
P608 15 HP	CNEL	90.5		140.9	-54.0	2.4	0.0	-0.7		0.0	0.0	38.3	0.0	6.7	44.9
P611 15 HP	CNEL	90.5		135.4	-53.6	2.4	0.0	-0.6		0.0	0.0	38.7	0.0	6.7	45.3
P614/615 20 HP	CNEL	93.0		132.6	-53.4	2.3	-12.4	-0.4		0.0	0.0	29.1	0.0	6.7	35.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	93.1	-50.4	0.6	-0.4	-0.3		0.0	0.1	84.2	-38.6	0.0	45.7
Scanner Blower C-084A/B	CNEL	95.5		136.3	-53.7	2.5	-10.7	-0.5		0.0	3.0	36.2	0.0	6.7	42.9
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	141.3	-54.0	2.3	-11.6	-0.1		0.0	2.7	10.8	0.0	6.7	17.5
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	140.9	-54.0	2.3	-9.2	-0.1		0.0	1.7	10.6	0.0	6.7	17.2
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	139.6	-53.9	2.0	-3.4	-0.1		0.0	0.6	14.6	0.0	6.7	21.3
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	138.0	-53.8	2.3	-4.7	-0.1		0.0	0.0	15.2	0.0	6.7	21.9
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	138.9	-53.8	2.3	-5.8	-0.1		0.0	0.0	14.4	0.0	6.7	21.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	137.7	-53.8	2.4	-6.7	-0.2		0.0	0.1	22.0	0.0	6.7	28.7
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	139.9	-53.9	2.3	-12.9	-0.2		0.0	4.1	18.6	0.0	6.7	25.3
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	140.2	-53.9	2.3	-13.3	-0.2		0.0	4.4	29.4	0.0	6.7	36.1
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	139.6	-53.9	2.3	-13.1	-0.2		0.0	4.1	21.0	0.0	6.7	27.7
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	138.6	-53.8	1.9	-4.8	-0.3		0.0	1.0	29.4	0.0	6.7	36.1
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	137.1	-53.7	2.3	-6.6	-0.2		0.0	0.1	31.9	0.0	6.7	38.6
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	138.1	-53.8	2.3	-6.6	-0.2		0.0	0.1	23.2	0.0	6.7	29.9
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	140.0	-53.9	2.5	-16.6	-0.4		0.0	1.2	32.0	0.0	6.7	38.7
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	141.0	-54.0	2.5	-18.5	-0.5		0.0	8.9	43.2	0.0	6.7	49.9
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	139.3	-53.9	2.2	-5.5	-0.9		0.0	1.4	44.8	0.0	6.7	51.4
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	137.7	-53.8	2.5	-9.4	-0.6		0.0	0.1	43.5	0.0	6.7	50.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	140.1	-53.9	2.5	-17.5	-0.7		0.0	9.7	33.5	0.0	6.7	40.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	137.7	-53.8	2.5	-9.4	-0.6		0.0	2.5	34.9	0.0	6.7	41.6
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	138.9	-53.8	1.8	-4.8	-0.2		0.0	1.0	22.1	0.0	6.7	28.7
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	140.9	-54.0	2.3	-12.2	-0.1		0.0	3.1	11.0	0.0	6.7	17.6
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	141.9	-54.0	2.3	-12.8	-0.1		0.0	4.0	18.3	0.0	6.7	25.0
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	141.6	-54.0	2.3	-11.9	-0.1		0.0	3.5	13.1	0.0	6.7	19.8
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	136.7	-53.7	2.3	-6.5	-0.2		0.0	0.1	15.8	0.0	6.7	22.5
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	136.1	-53.7	2.2	-6.4	-0.2		0.0	0.1	21.0	0.0	6.7	27.7
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	137.1	-53.7	2.2	-5.7	-0.2		0.0	0.1	16.1	0.0	6.7	22.7
Tank Farm Pump 1	CNEL	99.0	3	274.9	-59.8	3.5	-5.6	-1.5		0.0	0.8	36.5	0.0	6.7	43.2
Tank Farm Pump 2	CNEL	99.0	3	290.8	-60.3	3.6	-8.3	-1.5		0.0	0.0	32.7	0.0	6.7	39.3
Tank Farm Pump 3	CNEL	99.0	3	295.2	-60.4	3.7	-17.1	-1.4		0.0	0.1	23.9	0.0	6.7	30.5
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	176.6	-55.9	1.2	-0.1	-2.2		0.0	0.1	55.4	-16.8	0.0	38.6
Vaporizer Blower 1	CNEL	88.7		141.8	-54.0	2.6	-18.8	-0.6		0.0	12.1	29.9	0.0	6.7	36.6
Vaporizer Blower 2	CNEL	88.7		142.5	-54.1	2.6	-18.5	-0.6		0.0	11.6	29.7	0.0	6.7	36.4
Vaporizer Inlet Silencer	CNEL	73.7		142.2	-54.1	2.4	-11.6	-0.2		0.0	4.8	15.1	0.0	6.7	21.7
Vaporizer Motor 1	CNEL	83.6		141.8	-54.0	2.6	-19.3	-0.9		0.0	12.6	24.7	0.0	6.7	31.4
Vaporizer Motor 2	CNEL	83.6		142.6	-54.1	2.6	-19.0	-0.8		0.0	12.3	24.6	0.0	6.7	31.2
Water Treatment Pumps P-056A&B	CNEL	93.0		129.0	-53.2	2.5	-17.0	-0.8		0.0	4.5	29.1	0.0	6.7	35.8
XF-1502 Splitter Area 1	CNEL	104.5		238.3	-58.5	2.2	-4.0	-1.4	0.00	-3.9	0.0	38.8	0.0	6.7	45.5
XF-1502 Splitter Area 2	CNEL	104.5		234.7	-58.4	2.2	-5.7	-1.1		-3.7	0.0	37.9	0.0	6.7	44.5
XF-1504 Splitter Area 1	CNEL	104.5		237.0	-58.5	2.2	-0.5	-1.8	-0.03	-4.5	0.0	41.3	0.0	6.7	48.0
XF-1504 Splitter Area 2	CNEL	104.5		233.4	-58.4	2.2	0.0	-1.6		-4.3	0.0	42.5	0.0	6.7	49.1
XF 304, XF 321	CNEL	110.5	56	290.3	-60.3	1.9	-1.1	-1.0		-2.9	0.1	47.3	0.0	6.7	53.9
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	2.4	-5.0	-1.1	-0.21	-3.5	0.1	44.7	0.0	6.7	51.4
XF 335-1, XF 335-2	CNEL	113.4	54	301.1	-60.6	2.0	-3.2	-1.3	0.00	-3.0	0.2	47.5	0.0	6.7	54.2
XF 503	CNEL	113.0	21	237.0	-58.5	1.9	-1.6	-2.7	-0.88	-3.9	0.0	47.5	0.0	6.7	54.1
XF - 1601	CNEL	96.6		223.7	-58.0	2.1	0.0	-0.7		-2.6	0.0	37.4	0.0	6.7	44.1
XF - 1602	CNEL	96.6		222.4	-57.9	2.2	0.0	-0.7		-2.6	0.0	37.5	0.0	6.7	44.2
XF Module 1510	CNEL	108.3		232.9	-58.3	2.1	0.0	-1.6	-0.10	-4.3	0.0	46.1	0.0	6.7	52.8
XF Module 1519	CNEL	109.0		237.9	-58.5	2.2	0.0	-1.6	-0.22	-4.3	0.0	46.5	0.0	6.7	53.2
xxxx xxxx xxxx xxxx	CNEL		606								1.4				29.5
xxxx xxxx xxxx xxxx	CNEL		606								1.4				29.6
xxxx xxxx xxxx xxxx	CNEL		917								1.8				45.8
xxxx xxxx xxxx xxxx	CNEL		917								2.0				45.7
xxxx xxxx xxxx xxxx	CNEL		608								0.9				30.8
xxxx xxxx xxxx xxxx	CNEL		608								1.0				30.7
xxxx xxxx xxxx xxxx	CNEL		1172								3.0				47.2
xxxx xxxx xxxx xxxx	CNEL		520								2.5				24.9
xxxx xxxx xxxx xxxx	CNEL		572								2.9				35.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-5 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.4 dB(A) Ld 7-19 dB(A) Leq,N 65.1 dB(A) Le 19-22 dB(A) CNEL 71.8 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	143.2	-54.1	2.6	-1.3	0.0		0.0	0.0	40.6	0.0	6.7	47.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	89.5	-50.0	1.3	-0.1	-1.8		0.0	0.1	58.4	-10.8	0.0	47.6
Air Compressor C 1	CNEL	110.0	5	294.9	-60.4	2.8	-3.3	-1.1	-0.57	0.0	1.7	49.2	0.0	6.7	55.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		126.6	-53.0	2.5	-18.8	-1.7		0.0	8.2	37.6	0.0	6.7	44.3
Asphalt Production	CNEL	113.8	1206	120.4	-52.6	2.1	-1.4	-1.8		0.0	0.2	60.3	0.0	6.7	66.9
BFW Pumps P-073A&B	CNEL	95.8		127.1	-53.1	2.5	-18.1	-0.9		0.0	7.0	33.2	0.0	6.7	39.9
Blower F 401	CNEL	113.0		191.1	-56.6	2.3	-12.3	-0.2		0.0	1.6	47.8	0.0	6.7	54.5
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.7	-54.9	2.4	-4.7	-0.7		0.0	0.0	40.6	0.0	6.7	47.3
Brine Transfer P-085	CNEL	96.2		127.5	-53.1	2.5	-16.0	-0.7		0.0	0.6	29.4	0.0	6.7	36.1
Burner H301 North	CNEL	96.1	10	333.3	-61.4	2.8	-19.4	-1.4	-1.30	0.0	2.8	21.2	0.0	6.7	27.8
Burner H301 South	CNEL	95.9	10	330.2	-61.4	2.7	-5.6	-1.9	-1.35	0.0	0.2	31.7	0.0	6.7	38.3
Burner H302 North	CNEL	97.0	13	320.9	-61.1	2.6	-19.5	-1.3	-0.95	0.0	1.7	21.4	0.0	6.7	28.0
Burner H302 South	CNEL	97.0	13	318.4	-61.1	2.6	-7.9	-1.5	-1.30	0.0	0.4	31.3	0.0	6.7	38.0
Burner H303 North	CNEL	97.0	13	288.9	-60.2	2.4	-22.3	-1.5	-0.46	0.0	11.3	29.2	0.0	6.7	35.9
Burner H303 South	CNEL	97.0	13	286.0	-60.1	2.4	-7.3	-1.2	-0.49	0.0	0.3	33.6	0.0	6.7	40.3
Burner H304 North	CNEL	97.0	13	297.0	-60.4	2.5	-21.8	-1.5	-0.58	0.0	5.6	23.8	0.0	6.7	30.4
Burner H304 South	CNEL	97.0	13	294.1	-60.4	2.5	-10.5	-1.3	-0.81	0.0	2.1	31.5	0.0	6.7	38.2
Burner H305 North	CNEL	96.3	11	304.0	-60.6	2.5	-20.7	-1.4	-0.45	0.0	10.1	28.7	0.0	6.7	35.4
Burner H305 South	CNEL	96.3	11	301.0	-60.6	2.5	-14.6	-1.4	-0.57	0.0	0.6	25.2	0.0	6.7	31.9
Burner H306 North	CNEL	95.0	8	311.4	-60.9	2.5	-19.0	-1.3	-0.36	0.0	6.0	25.0	0.0	6.7	31.7
Burner H306 South	CNEL	95.1	8	308.8	-60.8	2.5	-6.2	-1.6	-1.41	0.0	0.1	30.7	0.0	6.7	37.4
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.9	-58.7	2.4	-11.9	-0.9	-0.63	2.9	3.2	41.1	0.0	6.7	47.8
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	2.5	-2.9	-1.9	-1.13	0.0	0.4	38.7	0.0	6.7	45.4
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.7	-59.0	2.4	-15.0	-0.6	-0.89	-7.8	11.0	36.5	0.0	6.7	43.2
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.5	-58.8	2.3	-11.0	-1.0	-0.59	1.8	0.0	43.4	0.0	6.7	50.1
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.8	-58.7	2.4	-8.9	-0.8	-1.00	1.5	0.6	38.9	0.0	6.7	45.6
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.4	-59.1	2.4	-14.2	-0.7	-0.36	-7.4	0.1	21.0	0.0	6.7	27.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.6	-1.9	-1.5		4.3	0.0	43.8	0.0	6.7	50.5
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.7	-57.7	2.6	-17.5	-0.6		-5.4	0.0	19.3	0.0	6.7	26.0
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.6	-57.3	2.5	0.0	-1.3		4.7	0.0	49.2	0.0	6.7	55.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.7	-57.4	2.5	-9.2	-0.8		-4.5	0.0	31.4	0.0	6.7	38.1
Cooling Tower M 512	CNEL	95.7		208.6	-57.4	2.6	0.0	-1.1		0.0	2.4	42.3	0.0	6.7	48.9
Cooling Tower M 513	CNEL	95.7		209.0	-57.4	2.6	-5.4	-1.0		0.0	5.5	40.0	0.0	6.7	46.7
Cooling Tower M 514	CNEL	95.7		208.0	-57.4	2.6	0.0	-1.1		0.0	2.4	42.3	0.0	6.7	49.0
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	173.4	-55.8	2.6	-4.2	-1.9		0.0	0.1	54.5	0.0	6.7	61.2
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	173.3	-55.8	2.6	-3.8	-1.9		0.0	0.1	54.9	0.0	6.7	61.6
CT Y-600-CT Y-600 North	CNEL	96.4	51	113.3	-52.1	1.9	-17.0	-0.3		0.0	0.1	32.0	0.0	6.7	38.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	108.9	-51.7	1.6	0.0	-0.9		0.0	0.0	48.4	0.0	6.7	55.1
Deaerator Skid P-058A&B	CNEL	96.2		138.7	-53.8	2.1	0.0	-1.3		0.0	0.0	43.2	0.0	6.7	49.9
Exhaust Stack	CNEL	100.6		140.2	-53.9	2.0	0.0	-0.2		0.0	0.0	48.5	0.0	6.7	55.2
F.G. After Cooler XF-083ABC	CNEL	100.2		129.6	-53.2	2.4	-10.5	-0.2		0.0	1.8	40.4	0.0	6.7	47.1
Fan Y-600	CNEL	107.5		111.0	-51.9	1.7	-9.2	-0.3		0.0	0.0	47.8	0.0	6.7	54.5
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	132.1	-53.4	1.9	-2.7	-0.1		0.0	0.0	28.1	0.0	6.7	34.8
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	134.1	-53.5	2.4	-6.5	-0.1		0.0	0.0	23.0	0.0	6.7	29.7
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	131.5	-53.4	2.6	-14.0	-0.7		0.0	0.3	8.9	0.0	6.7	15.5
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	135.6	-53.6	2.4	-9.7	-0.1		0.0	0.1	22.8	0.0	6.7	29.5
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	128.9	-53.2	2.3	-1.0	-0.1		0.0	0.0	23.0	0.0	6.7	29.7
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	130.6	-53.3	2.3	-3.7	-0.1		0.0	0.0	26.1	0.0	6.7	32.8
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	128.8	-53.2	2.5	-7.9	-1.1		0.0	1.9	16.4	0.0	6.7	23.1
Fin Fan XF 616 - Above	CNEL	96.0	75	138.6	-53.8	1.9	0.0	-0.3		-13.0	0.0	30.7	0.0	6.7	37.3
Fin Fan XF 616 - Below	CNEL	108.0	75	138.6	-53.8	1.9	0.0	-0.5		-7.2	0.0	48.4	0.0	6.7	55.0
Fin Fan XF 617 - Above	CNEL	93.0	21	146.4	-54.3	1.9	0.0	-0.4		-13.2	0.0	27.1	0.0	6.7	33.8
Fin Fan XF 617 - Below	CNEL	104.0	21	146.3	-54.3	1.9	0.0	-0.6		-7.2	0.0	43.9	0.0	6.7	50.6
Heater # 5-Heater	CNEL	91.1	13	161.1	-55.1	2.4	0.0	-0.8		0.0	0.0	40.6	0.0	6.7	47.3
Heater # 5-Heater	CNEL	91.1	13	156.1	-54.9	2.4	0.0	-0.7		0.0	0.0	40.9	0.0	6.7	47.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	151.0	-54.6	2.4	0.0	-0.7		0.0	0.0	41.2	0.0	6.7	47.8
Heater H 601	CNEL	89.1	13	143.1	-54.1	2.3	-0.1	-0.8		0.0	0.8	37.1	0.0	6.7	43.8
Hydro Heater H-402	CNEL	98.1		219.0	-57.8	2.6	0.0	-1.1		0.0	0.0	41.7	0.0	6.7	48.4
ID Fan	CNEL	110.3		315.7	-61.0	2.4	-17.9	-0.5		0.0	4.8	38.1	0.0	6.7	44.8
ID Fan 200 HP Motor	CNEL	104.4		314.3	-60.9	2.6	-23.1	-1.9		0.0	1.3	22.2	0.0	6.7	28.9
Incinirator Compressor & Motor	CNEL	92.5		230.4	-58.2	2.5	-1.1	-1.4		0.0	0.0	34.3	0.0	6.7	40.9
Incinirator Fin Fan	CNEL	94.8		229.5	-58.2	2.5	-1.2	-1.4		0.0	0.0	36.5	0.0	6.7	43.2
Lub Oil Cooler XF-061	CNEL	100.5		142.2	-54.1	2.6	-15.0	-0.3		0.0	7.0	40.8	0.0	6.7	47.5
Misc pumps motors	CNEL	100.2	332	224.9	-58.0	2.8	-8.7	-1.7		0.0	0.8	35.3	0.0	6.7	42.0
Motor & Pump P 56A/B	CNEL	93.7		236.8	-58.5	2.6	0.0	-2.0	-0.30	0.0	0.3	35.7	0.0	6.7	42.4
Motor & Pump P 120/121	CNEL	96.2	2	282.9	-60.0	2.6	-15.5	-1.0	-0.40	0.0	0.0	21.9	0.0	6.7	28.6
Motor & Pump P 211/212	CNEL	93.7		224.6	-58.0	2.5	-8.2	-1.2	-0.73	0.0	0.2	28.1	0.0	6.7	34.8
Motor & Pump P 215/214	CNEL	94.6		229.0	-58.2	2.5	-4.5	-1.7	-0.83	0.0	0.0	31.9	0.0	6.7	38.6
Motor & Pump P 216	CNEL	98.3		228.6	-58.2	2.4	-4.8	-1.7	-0.73	0.0	1.8	37.1	0.0	6.7	43.7
Motor & Pump P 217/218	CNEL	93.7		226.3	-58.1	2.5	-8.8	-1.2	-0.78	0.0	0.9	28.3	0.0	6.7	34.9
Motor & Pump P 300	CNEL	97.1	2	290.1	-60.2	2.7	-16.1	-0.9	-0.52	0.0	6.4	28.4	0.0	6.7	35.0
Motor & Pump P 301	CNEL	102.1	2	288.5	-60.2	2.7	-18.0	-0.9	-0.51	0.0	8.4	33.5	0.0	6.7	40.2
Motor & Pump P 302	CNEL	97.1	2	291.7	-60.3	2.7	-15.1	-0.9	-0.52	0.0	2.9	25.9	0.0	6.7	32.6
Motor & Pump P 303	CNEL	97.1	2	293.1	-60.3	2.7	-14.1	-0.9	-0.52	0.0	2.0	25.9	0.0	6.7	32.6
Motor & Pump P 305	CNEL	97.5	2	294.4	-60.4	2.7	-13.1	-0.9	-0.53	0.0	1.3	26.6	0.0	6.7	33.2
Motor & Pump P 306	CNEL	112.6	4	302.6	-60.6	2.7	-15.6	-0.8	-0.33	0.0	0.4	38.4	0.0	6.7	45.0
Motor & Pump P 307	CNEL	102.1	2	284.2	-60.1	2.6	-17.1	-0.9	-0.54	0.0	1.6	27.7	0.0	6.7	34.3
Motor & Pump P 309	CNEL	97.5	2	295.7	-60.4	2.7	-12.4	-0.9	-0.53	0.0	0.4	26.4	0.0	6.7	33.0
Motor & Pump P 312	CNEL	101.5	2	264.7	-59.4	2.6	-5.2	-1.0	-0.97	0.0	2.2	39.7	0.0	6.7	46.3
Motor & Pump P 313	CNEL	101.5	2	263.2	-59.4	2.6	-4.7	-1.0	-1.01	0.0	3.4	41.4	0.0	6.7	48.1
Motor & Pump P 315	CNEL	102.9	2	257.6	-59.2	2.6	-3.5	-1.2	-1.14	0.0	0.5	41.0	0.0	6.7	47.6
Motor & Pump P 316	CNEL	102.9	2	255.9	-59.2	2.6	-3.7	-1.1	-1.18	0.0	1.1	41.4	0.0	6.7	48.1
Motor & Pump P 317	CNEL	102.9	2	254.1	-59.1	2.6	-3.6	-1.1	-1.22	0.0	1.0	41.4	0.0	6.7	48.0
Motor & Pump P 318	CNEL	100.2	1	259.1	-59.3	2.6	-3.0	-1.1	-1.08	0.0	0.1	38.3	0.0	6.7	45.0
Motor & Pump P 319	CNEL	100.2	1	260.4	-59.3	2.6	-4.9	-1.0	-1.06	0.0	2.1	38.5	0.0	6.7	45.2
Motor & Pump P 327	CNEL	111.2	3	310.1	-60.8	2.9	-21.4	-1.7	-0.19	0.0	3.6	33.6	0.0	6.7	40.3
Motor & Pump P 328	CNEL	109.9	5	297.3	-60.5	2.6	-13.4	-0.9	-0.41	0.0	0.5	37.9	0.0	6.7	44.6
Motor & Pump P 329	CNEL	110.2	5	299.9	-60.5	2.6	-15.0	-1.0	-0.34	0.0	0.3	36.3	0.0	6.7	43.0
Motor & Pump P 451	CNEL	93.7		212.3	-57.5	2.5	-3.4	-1.5		0.0	0.0	33.8	0.0	6.7	40.4
Motor & Pump P 453	CNEL	93.7		200.6	-57.0	2.5	0.0	-1.8		0.0	0.0	37.3	0.0	6.7	44.0
Motor & Pump P 454	CNEL	93.7		213.3	-57.6	2.5	-5.0	-1.3		0.0	0.0	32.3	0.0	6.7	39.0
Motor & Pump P 457	CNEL	93.7		199.2	-57.0	2.5	0.0	-1.8		0.0	0.0	37.4	0.0	6.7	44.0
Motor & Pump P 458	CNEL	93.7		211.7	-57.5	2.5	0.0	-1.9		0.0	0.0	36.8	0.0	6.7	43.5
Motor & Pump P 459	CNEL	93.7		214.2	-57.6	2.5	-3.4	-1.7		0.0	0.0	33.5	0.0	6.7	40.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		233.0	-58.3	2.6	-19.5	-1.2		0.0	0.0	19.8	0.0	6.7	26.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.6	-58.4	2.6	-15.1	-1.0		0.0	0.0	24.3	0.0	6.7	31.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.6	-59.4	2.7	-5.9	-1.5	-0.63	0.0	2.0	32.6	0.0	6.7	39.3
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.7	-59.4	2.7	-8.3	-1.5	-0.25	0.0	2.9	31.5	0.0	6.7	38.1
Motor & Pump P 1601 A	CNEL	96.3	2	225.3	-58.0	2.7	-16.2	-1.2		0.0	0.0	23.6	0.0	6.7	30.3
Motor & Pump P 1601 B	CNEL	96.3	2	225.0	-58.0	2.7	-16.1	-1.2		0.0	0.0	23.7	0.0	6.7	30.3
Motor & Pump P 1602 A	CNEL	96.3	2	224.5	-58.0	2.7	-16.0	-1.2		0.0	0.0	23.7	0.0	6.7	30.4
Motor & Pump P 1602 B	CNEL	96.5	2	224.2	-58.0	2.7	-15.7	-1.2		0.0	0.0	24.3	0.0	6.7	31.0
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.5	-58.2	2.7	-14.4	-1.1	-0.08	0.0	0.0	25.4	0.0	6.7	32.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.2	-58.4	2.7	-11.9	-1.1	-0.20	0.0	0.0	27.7	0.0	6.7	34.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.5	-58.5	2.7	-11.4	-1.1	-0.25	0.0	0.0	28.0	0.0	6.7	34.7
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.8	-58.4	2.6	-15.6	-1.0		0.0	0.0	24.4	0.0	6.7	31.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.5	-58.5	2.6	-14.1	-1.0	-0.01	0.0	0.0	25.7	0.0	6.7	32.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.5	-58.6	2.7	-12.1	-1.1	-0.08	0.0	0.0	27.1	0.0	6.7	33.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.1	-58.6	2.7	-3.2	-1.8	-0.25	0.0	0.0	35.1	0.0	6.7	41.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.2	-58.7	2.7	-10.2	-1.6	-0.21	0.0	0.0	28.3	0.0	6.7	35.0
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.7	-58.7	2.7	-4.8	-2.1	-0.35	0.0	0.0	33.1	0.0	6.7	39.8
P602 100 HP	CNEL	94.1		132.7	-53.5	2.4	0.0	-0.7		0.0	0.0	42.4	0.0	6.7	49.0
P603 60 HP	CNEL	95.0		127.2	-53.1	2.4	0.0	-0.9		0.0	0.0	43.4	0.0	6.7	50.1
P605 40 HP	CNEL	95.0		128.6	-53.2	2.4	0.0	-0.9		0.0	0.0	43.3	0.0	6.7	50.0
P607 15 HP	CNEL	90.5		138.3	-53.8	2.4	0.0	-0.7		0.0	0.0	38.4	0.0	6.7	45.1
P608 15 HP	CNEL	90.5		141.0	-54.0	2.4	0.0	-0.7		0.0	0.0	38.3	0.0	6.7	44.9
P611 15 HP	CNEL	90.5		135.5	-53.6	2.4	0.0	-0.6		0.0	0.0	38.6	0.0	6.7	45.3
P614/615 20 HP	CNEL	93.0		132.7	-53.4	2.3	-10.9	-0.4		0.0	0.1	30.6	0.0	6.7	37.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	93.4	-50.4	0.6	-0.3	-0.3		0.0	0.1	84.4	-38.6	0.0	45.8
Scanner Blower C-084A/B	CNEL	95.5		136.4	-53.7	2.6	-9.9	-0.5		0.0	3.1	37.0	0.0	6.7	43.7
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	141.4	-54.0	2.5	-11.5	-0.1		0.0	2.7	11.2	0.0	6.7	17.9
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	141.0	-54.0	2.5	-9.1	-0.1		0.0	1.7	10.9	0.0	6.7	17.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	139.7	-53.9	2.1	-3.2	-0.1		0.0	0.6	14.9	0.0	6.7	21.6
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	138.1	-53.8	2.5	-4.4	-0.1		0.0	0.0	15.7	0.0	6.7	22.3
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	139.0	-53.9	2.5	-5.6	-0.1		0.0	0.1	14.8	0.0	6.7	21.5
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	137.8	-53.8	2.6	-6.2	-0.2		0.0	0.1	22.6	0.0	6.7	29.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	140.0	-53.9	2.4	-12.5	-0.2		0.0	4.0	19.0	0.0	6.7	25.7
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	140.3	-53.9	2.4	-13.1	-0.1		0.0	4.4	29.7	0.0	6.7	36.3
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	139.7	-53.9	2.4	-12.6	-0.1		0.0	3.9	21.5	0.0	6.7	28.1
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	138.7	-53.8	2.0	-4.7	-0.3		0.0	1.0	29.6	0.0	6.7	36.2
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	137.2	-53.7	2.4	-6.3	-0.2		0.0	0.1	32.3	0.0	6.7	39.0
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	138.2	-53.8	2.4	-6.3	-0.2		0.0	0.1	23.6	0.0	6.7	30.3
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	140.1	-53.9	2.6	-16.2	-0.4		0.0	1.6	32.8	0.0	6.7	39.5
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	141.1	-54.0	2.6	-18.2	-0.4		0.0	8.9	43.5	0.0	6.7	50.2
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	139.4	-53.9	2.3	-4.9	-1.1		0.0	1.3	45.2	0.0	6.7	51.8
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	137.8	-53.8	2.5	-8.7	-0.6		0.0	0.1	44.3	0.0	6.7	51.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	140.2	-53.9	2.5	-17.4	-0.7		0.0	10.2	34.1	0.0	6.7	40.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	137.8	-53.8	2.5	-8.6	-0.6		0.0	2.5	35.6	0.0	6.7	42.3
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	139.0	-53.9	2.0	-4.7	-0.2		0.0	1.0	22.2	0.0	6.7	28.9
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	141.0	-54.0	2.4	-12.1	-0.1		0.0	3.1	11.2	0.0	6.7	17.9
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	142.0	-54.0	2.4	-12.7	-0.1		0.0	4.0	18.6	0.0	6.7	25.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	141.7	-54.0	2.4	-11.7	-0.1		0.0	3.5	13.4	0.0	6.7	20.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	136.8	-53.7	2.4	-6.2	-0.2		0.0	0.1	16.1	0.0	6.7	22.8
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	136.2	-53.7	2.4	-6.2	-0.2		0.0	0.1	21.4	0.0	6.7	28.0
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	137.2	-53.7	2.3	-5.5	-0.2		0.0	0.0	16.3	0.0	6.7	23.0
Tank Farm Pump 1	CNEL	99.0	3	275.0	-59.8	2.8	-4.4	-1.5		0.0	1.1	37.2	0.0	6.7	43.8
Tank Farm Pump 2	CNEL	99.0	3	290.8	-60.3	2.9	-4.9	-1.9		0.0	0.0	34.8	0.0	6.7	41.5
Tank Farm Pump 3	CNEL	99.0	3	295.2	-60.4	2.9	-16.8	-1.3		0.0	0.1	23.5	0.0	6.7	30.1
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	176.9	-55.9	1.3	-0.1	-2.1		0.0	0.1	55.6	-16.8	0.0	38.8
Vaporizer Blower 1	CNEL	88.7		141.9	-54.0	2.6	-18.7	-0.6		0.0	12.9	30.8	0.0	6.7	37.5
Vaporizer Blower 2	CNEL	88.7		142.7	-54.1	2.6	-18.4	-0.6		0.0	12.4	30.6	0.0	6.7	37.3
Vaporizer Inlet Silencer	CNEL	73.7		142.3	-54.1	2.6	-11.4	-0.2		0.0	4.6	15.3	0.0	6.7	22.0
Vaporizer Motor 1	CNEL	83.6		142.0	-54.0	2.6	-19.2	-0.9		0.0	13.7	25.8	0.0	6.7	32.4
Vaporizer Motor 2	CNEL	83.6		142.7	-54.1	2.6	-18.9	-0.8		0.0	13.1	25.5	0.0	6.7	32.1
Water Treatment Pumps P-056A&B	CNEL	93.0		129.2	-53.2	2.5	-16.8	-0.8		0.0	4.9	29.7	0.0	6.7	36.4
XF-1502 Splitter Area 1	CNEL	104.5		238.2	-58.5	2.3	-4.0	-1.4	0.00	-3.9	0.0	39.0	0.0	6.7	45.7
XF-1502 Splitter Area 2	CNEL	104.5		234.6	-58.4	2.3	-5.6	-1.1		-3.6	0.0	38.1	0.0	6.7	44.8
XF-1504 Splitter Area 1	CNEL	104.5		237.0	-58.5	2.4	-0.2	-1.7	-0.02	-4.5	0.0	42.0	0.0	6.7	48.6
XF-1504 Splitter Area 2	CNEL	104.5		233.4	-58.4	2.3	0.0	-1.6		-4.2	0.0	42.7	0.0	6.7	49.4
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	2.2	-1.0	-1.0		-2.8	0.1	47.8	0.0	6.7	54.5
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	2.6	-4.8	-1.1	-0.18	-3.4	0.0	45.1	0.0	6.7	51.8
XF 335-1, XF 335-2	CNEL	113.4	54	301.1	-60.6	2.3	-3.0	-1.3	0.00	-2.9	0.3	48.2	0.0	6.7	54.9
XF 503	CNEL	113.0	21	237.0	-58.5	2.1	-1.0	-2.6	-0.89	-3.8	0.0	48.4	0.0	6.7	55.0
XF - 1601	CNEL	96.6		223.6	-58.0	2.3	0.0	-0.7		-2.5	0.0	37.7	0.0	6.7	44.4
XF - 1602	CNEL	96.6		222.4	-57.9	2.4	0.0	-0.7		-2.5	0.0	37.8	0.0	6.7	44.5
XF Module 1510	CNEL	108.3		232.8	-58.3	2.3	0.0	-1.6	-0.10	-4.2	0.0	46.4	0.0	6.7	53.0
XF Module 1519	CNEL	109.0		237.9	-58.5	2.3	0.0	-1.6	-0.22	-4.2	0.0	46.7	0.0	6.7	53.4
xxxx xxxx xxxx xxxx	CNEL		606								1.5				31.3
xxxx xxxx xxxx xxxx	CNEL		606								1.5				31.4
xxxx xxxx xxxx xxxx	CNEL		917								1.7				46.7
xxxx xxxx xxxx xxxx	CNEL		917								1.5				46.5
xxxx xxxx xxxx xxxx	CNEL		608								0.8				32.0
xxxx xxxx xxxx xxxx	CNEL		608								0.9				31.9
xxxx xxxx xxxx xxxx	CNEL		1172								3.3				48.0
xxxx xxxx xxxx xxxx	CNEL		520								3.1				27.0
xxxx xxxx xxxx xxxx	CNEL		572								3.2				36.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 64.4 dB(A)		Ld 7-19 dB(A)		Leq,N 64.1 dB(A)		Le 19-22 dB(A)		CNEL 70.9 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	155.2	-54.8	2.2	-1.0	0.0		0.0	0.0	39.9	0.0	6.7	46.5
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	97.8	-50.8	1.2	-0.4	-2.0		0.0	0.1	57.2	-10.8	0.0	46.4
Air Compressor C 1	CNEL	110.0	5	314.8	-61.0	3.1	-7.0	-0.8	-0.51	0.0	1.3	45.1	0.0	6.7	51.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		139.4	-53.9	2.4	-18.9	-1.9		0.0	6.5	34.5	0.0	6.7	41.2
Asphalt Production	CNEL	113.8	1206	120.8	-52.6	1.8	-2.7	-1.8		0.0	0.2	58.6	0.0	6.7	65.3
BFW Pumps P-073A&B	CNEL	95.8		141.3	-54.0	2.6	-18.5	-1.0		0.0	5.9	30.8	0.0	6.7	37.5
Blower F 401	CNEL	113.0		213.0	-57.6	0.8	-12.5	-0.3		0.0	1.0	44.5	0.0	6.7	51.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.0	-53.9	1.7	-8.5	-0.5		0.0	0.0	37.5	0.0	6.7	44.1
Brine Transfer P-085	CNEL	96.2		143.4	-54.1	3.0	-16.7	-0.9		0.0	3.6	31.1	0.0	6.7	37.8
Burner H301 North	CNEL	96.1	10	354.6	-62.0	3.3	-19.7	-1.5	-0.89	0.0	3.0	21.4	0.0	6.7	28.1
Burner H301 South	CNEL	95.9	10	351.6	-61.9	3.3	-5.3	-1.8	-1.71	0.0	0.1	31.7	0.0	6.7	38.4
Burner H302 North	CNEL	97.0	13	342.4	-61.7	3.3	-20.5	-1.5	-1.23	0.0	0.1	18.4	0.0	6.7	25.1
Burner H302 South	CNEL	97.0	13	340.0	-61.6	3.2	-11.3	-1.3	-0.88	0.0	0.0	28.2	0.0	6.7	34.8
Burner H303 North	CNEL	97.0	13	311.1	-60.8	3.0	-22.5	-1.6	-0.42	0.0	9.1	26.6	0.0	6.7	33.3
Burner H303 South	CNEL	97.0	13	308.2	-60.8	2.9	-11.1	-1.1	-0.62	0.0	0.3	29.6	0.0	6.7	36.2
Burner H304 North	CNEL	97.0	13	319.0	-61.1	3.1	-21.8	-1.6	-0.40	0.0	5.6	23.8	0.0	6.7	30.5
Burner H304 South	CNEL	97.0	13	316.1	-61.0	3.0	-13.7	-1.2	-0.83	0.0	1.9	28.2	0.0	6.7	34.9
Burner H305 North	CNEL	96.3	11	325.9	-61.3	3.1	-20.5	-1.5	-0.53	0.0	8.4	27.1	0.0	6.7	33.8
Burner H305 South	CNEL	96.3	11	323.0	-61.2	3.1	-15.3	-1.3	-0.69	0.0	0.6	24.6	0.0	6.7	31.2
Burner H306 North	CNEL	95.0	8	333.1	-61.4	3.2	-19.6	-1.4	-0.29	0.0	1.1	19.6	0.0	6.7	26.2
Burner H306 South	CNEL	95.1	8	330.5	-61.4	3.2	-7.3	-1.4	-1.50	0.0	0.1	29.8	0.0	6.7	36.4
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	1.9	-12.9	-1.0	-0.85	2.8	3.2	38.4	0.0	6.7	45.0
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.6	-59.5	2.0	-3.0	-1.8	-1.17	0.0	0.4	37.6	0.0	6.7	44.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	1.9	-17.4	-0.7	-0.95	-7.8	12.2	34.1	0.0	6.7	40.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	1.8	-11.8	-1.2	-0.63	2.0	0.0	41.3	0.0	6.7	48.0
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.6	-59.4	1.9	-9.7	-0.9	-1.03	1.7	0.9	37.2	0.0	6.7	43.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.0	-16.4	-0.7	-0.44	-7.5	0.0	17.5	0.0	6.7	24.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.4	-58.3	2.4	-3.5	-1.7		4.1	0.0	40.8	0.0	6.7	47.5
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.0	-58.5	2.3	-17.7	-0.7		-5.9	0.0	17.4	0.0	6.7	24.1
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.6	-57.9	2.0	-1.9	-1.3		4.5	0.0	46.0	0.0	6.7	52.6
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.1	-11.8	-0.8		-5.2	0.0	26.8	0.0	6.7	33.5
Cooling Tower M 512	CNEL	95.7		227.7	-58.1	3.1	-1.2	-1.4		0.0	1.3	39.4	0.0	6.7	46.1
Cooling Tower M 513	CNEL	95.7		228.2	-58.2	3.1	-1.1	-1.4		0.0	1.2	39.4	0.0	6.7	46.1
Cooling Tower M 514	CNEL	95.7		227.0	-58.1	3.1	-2.0	-1.2		0.0	1.4	39.0	0.0	6.7	45.6
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	159.5	-55.0	2.9	-4.4	-2.0		0.0	0.5	55.7	0.0	6.7	62.4
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	159.5	-55.0	2.1	-4.0	-2.0		0.0	0.5	55.2	0.0	6.7	61.9
CT Y-600-CT Y-600 North	CNEL	96.4	51	100.6	-51.0	1.4	-17.6	-0.3		0.0	1.2	33.0	0.0	6.7	39.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	93.7	-50.4	1.1	0.0	-0.8		0.0	0.4	49.6	0.0	6.7	56.3
Deaerator Skid P-058A&B	CNEL	96.2		152.7	-54.7	1.6	-0.1	-1.4		0.0	0.0	41.6	0.0	6.7	48.3
Exhaust Stack	CNEL	100.6		157.1	-54.9	0.9	0.0	-0.3		-0.1	0.0	46.2	0.0	6.7	52.9
F.G. After Cooler XF-083ABC	CNEL	100.2		140.2	-53.9	1.7	-11.0	-0.3		0.0	2.2	38.9	0.0	6.7	45.6
Fan Y-600	CNEL	107.5		97.4	-50.8	1.2	-10.6	-0.3		0.0	0.0	47.1	0.0	6.7	53.8
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	141.2	-54.0	0.9	-5.0	-0.1		0.0	0.0	24.2	0.0	6.7	30.8
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	141.9	-54.0	1.7	-5.0	-0.1		0.0	0.0	23.3	0.0	6.7	30.0
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	139.3	-53.9	2.3	-17.3	-0.5		0.0	0.0	4.8	0.0	6.7	11.4
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	144.7	-54.2	1.7	-9.6	0.0		0.0	0.1	21.6	0.0	6.7	28.3
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	137.7	-53.8	1.5	-2.3	-0.1		0.0	0.0	20.3	0.0	6.7	26.9
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	140.6	-54.0	1.6	-3.1	-0.1		0.0	0.0	25.2	0.0	6.7	31.9
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	138.7	-53.8	2.3	-4.9	-1.3		0.0	1.1	17.5	0.0	6.7	24.2
Fin Fan XF 616 - Above	CNEL	96.0	75	123.0	-52.8	1.1	0.0	-0.3		-16.0	0.2	28.2	0.0	6.7	34.8
Fin Fan XF 616 - Below	CNEL	108.0	75	122.9	-52.8	1.1	0.0	-0.5		-5.8	0.3	50.4	0.0	6.7	57.0
Fin Fan XF 617 - Above	CNEL	93.0	21	131.1	-53.3	1.1	0.0	-0.3		-16.0	0.0	24.4	0.0	6.7	31.1
Fin Fan XF 617 - Below	CNEL	104.0	21	131.0	-53.3	1.1	0.0	-0.5		-5.8	0.0	45.5	0.0	6.7	52.1
Heater # 5-Heater	CNEL	91.1	13	142.7	-54.1	1.8	-0.5	-0.8		0.0	0.0	40.4	0.0	6.7	47.1
Heater # 5-Heater	CNEL	91.1	13	137.8	-53.8	1.7	-0.5	-0.8		0.0	0.0	40.6	0.0	6.7	47.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	132.8	-53.5	1.6	-0.5	-0.8		0.0	0.0	40.9	0.0	6.7	47.6
Heater H 601	CNEL	89.1	13	124.7	-52.9	1.2	-1.6	-0.9		0.0	0.8	35.8	0.0	6.7	42.4
Hydro Heater H-402	CNEL	98.1		239.5	-58.6	2.0	-1.7	-2.1		0.0	0.0	37.7	0.0	6.7	44.4
ID Fan	CNEL	110.3		337.9	-61.6	2.1	-19.6	-0.7	-0.77	0.0	5.3	35.1	0.0	6.7	41.7
ID Fan 200 HP Motor	CNEL	104.4		336.5	-61.5	3.2	-23.4	-2.2	-0.72	0.0	0.1	19.8	0.0	6.7	26.4
Incinirator Compressor & Motor	CNEL	92.5		209.6	-57.4	2.6	-4.7	-1.1		0.0	0.0	31.8	0.0	6.7	38.5
Incinirator Fin Fan	CNEL	94.8		208.7	-57.4	2.7	-4.7	-1.1		0.0	0.0	34.4	0.0	6.7	41.0
Lub Oil Cooler XF-061	CNEL	100.5		155.4	-54.8	2.1	-18.3	-0.2		0.0	9.0	38.2	0.0	6.7	44.9
Misc pumps motors	CNEL	100.2	332	233.5	-58.4	3.3	-12.0	-1.2		0.0	0.3	32.4	0.0	6.7	39.0
Motor & Pump P 56A/B	CNEL	93.7		257.3	-59.2	3.1	-0.7	-2.6	-0.27	0.0	0.1	34.1	0.0	6.7	40.8
Motor & Pump P 120/121	CNEL	96.2	2	303.1	-60.6	3.4	-18.6	-1.0	-0.50	0.0	0.0	18.9	0.0	6.7	25.5
Motor & Pump P 211/212	CNEL	93.7		246.3	-58.8	3.0	-10.7	-1.2	-0.74	0.0	0.0	25.1	0.0	6.7	31.8
Motor & Pump P 215/214	CNEL	94.6		250.7	-59.0	3.0	-4.8	-1.6	-0.85	0.0	0.4	31.8	0.0	6.7	38.4
Motor & Pump P 216	CNEL	98.3		250.6	-59.0	2.8	-6.3	-1.7	-0.75	0.0	0.0	33.5	0.0	6.7	40.2
Motor & Pump P 217/218	CNEL	93.7		248.0	-58.9	3.2	-10.2	-1.3	-0.79	0.0	0.8	26.6	0.0	6.7	33.3
Motor & Pump P 300	CNEL	97.1	2	310.6	-60.8	3.4	-18.8	-1.1	-0.47	0.0	2.0	21.4	0.0	6.7	28.0
Motor & Pump P 301	CNEL	102.1	2	309.1	-60.8	3.4	-19.0	-1.0	-0.47	0.0	2.0	26.2	0.0	6.7	32.9
Motor & Pump P 302	CNEL	97.1	2	312.2	-60.9	3.4	-16.7	-1.1	-0.09	0.0	1.4	23.2	0.0	6.7	29.8
Motor & Pump P 303	CNEL	97.1	2	313.5	-60.9	3.4	-15.8	-1.0	-0.15	0.0	1.2	23.8	0.0	6.7	30.4
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.4	-15.3	-1.0	-0.34	0.0	1.0	24.4	0.0	6.7	31.0
Motor & Pump P 306	CNEL	112.6	4	322.9	-61.2	3.0	-17.2	-1.1	-0.34	0.0	0.9	36.8	0.0	6.7	43.5
Motor & Pump P 307	CNEL	102.1	2	304.8	-60.7	3.4	-17.6	-1.0	-0.47	0.0	1.0	26.7	0.0	6.7	33.4
Motor & Pump P 309	CNEL	97.5	2	316.2	-61.0	3.4	-15.4	-1.0	-0.27	0.0	0.6	23.8	0.0	6.7	30.5
Motor & Pump P 312	CNEL	101.5	2	285.8	-60.1	3.4	-4.8	-1.2	-0.86	0.0	0.4	38.3	0.0	6.7	45.0
Motor & Pump P 313	CNEL	101.5	2	284.2	-60.1	3.4	-2.9	-1.4	-0.88	0.0	0.7	40.4	0.0	6.7	47.0
Motor & Pump P 315	CNEL	102.9	2	278.9	-59.9	3.2	-3.8	-1.2	-1.04	0.0	0.0	40.2	0.0	6.7	46.9
Motor & Pump P 316	CNEL	102.9	2	277.2	-59.8	3.2	-2.6	-1.2	-1.08	0.0	0.3	41.6	0.0	6.7	48.3
Motor & Pump P 317	CNEL	102.9	2	275.4	-59.8	3.1	-3.6	-1.1	-1.13	0.0	0.8	41.2	0.0	6.7	47.9
Motor & Pump P 318	CNEL	100.2	1	280.3	-59.9	3.4	-3.5	-1.2	-0.99	0.0	0.0	38.0	0.0	6.7	44.7
Motor & Pump P 319	CNEL	100.2	1	281.6	-60.0	3.4	-3.3	-1.2	-0.95	0.0	0.0	38.2	0.0	6.7	44.8
Motor & Pump P 327	CNEL	111.2	3	330.3	-61.4	3.7	-21.6	-1.8	-0.22	0.0	3.6	33.5	0.0	6.7	40.2
Motor & Pump P 328	CNEL	109.9	5	317.7	-61.0	3.3	-15.9	-1.1	-0.19	0.0	0.7	35.7	0.0	6.7	42.4
Motor & Pump P 329	CNEL	110.2	5	320.2	-61.1	3.4	-17.3	-1.1	-0.10	0.0	1.1	34.9	0.0	6.7	41.6
Motor & Pump P 451	CNEL	93.7		232.9	-58.3	3.0	-3.3	-1.9		0.0	0.0	33.1	0.0	6.7	39.8
Motor & Pump P 453	CNEL	93.7		221.3	-57.9	2.8	-0.6	-2.3		0.0	0.0	35.7	0.0	6.7	42.4
Motor & Pump P 454	CNEL	93.7		234.0	-58.4	3.0	-4.1	-1.8		0.0	0.0	32.4	0.0	6.7	39.0
Motor & Pump P 457	CNEL	93.7		220.0	-57.8	2.8	-0.6	-2.3		0.0	0.0	35.8	0.0	6.7	42.4
Motor & Pump P 458	CNEL	93.7		232.3	-58.3	3.0	-0.7	-2.4		0.0	0.0	35.2	0.0	6.7	41.9
Motor & Pump P 459	CNEL	93.7		234.9	-58.4	3.0	-3.2	-1.7		0.0	0.0	33.3	0.0	6.7	40.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.3	-59.0	3.3	-18.1	-1.3		0.0	0.0	21.2	0.0	6.7	27.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		253.9	-59.1	3.3	-11.9	-1.3		0.0	0.0	27.3	0.0	6.7	34.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.8	-60.0	3.6	-10.9	-1.5	-0.24	0.0	3.4	29.7	0.0	6.7	36.4
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		282.9	-60.0	3.6	-11.3	-1.5	-0.25	0.0	3.6	29.5	0.0	6.7	36.2
Motor & Pump P 1601 A	CNEL	96.3	2	243.0	-58.7	3.2	-18.8	-1.2		0.0	0.0	20.8	0.0	6.7	27.5
Motor & Pump P 1601 B	CNEL	96.3	2	242.5	-58.7	3.2	-18.5	-1.2		0.0	0.0	21.1	0.0	6.7	27.8
Motor & Pump P 1602 A	CNEL	96.3	2	242.0	-58.7	3.2	-18.2	-1.2		0.0	0.0	21.5	0.0	6.7	28.1
Motor & Pump P 1602 B	CNEL	96.5	2	241.6	-58.7	3.2	-17.4	-1.2		0.0	0.0	22.5	0.0	6.7	29.2
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.3	-58.9	3.4	-16.9	-1.1	-0.08	0.0	0.0	23.0	0.0	6.7	29.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	253.9	-59.1	3.4	-12.9	-1.2	-0.20	0.0	0.0	26.7	0.0	6.7	33.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.2	-59.2	3.5	-13.1	-1.2	-0.25	0.0	0.0	26.3	0.0	6.7	33.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.0	-59.1	3.4	-12.9	-1.2		0.0	0.0	26.8	0.0	6.7	33.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.7	-59.2	3.4	-13.2	-1.2	-0.01	0.0	0.0	26.5	0.0	6.7	33.1
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.7	-59.2	3.5	-11.0	-1.4	-0.06	0.0	0.0	28.2	0.0	6.7	34.9
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.4	-59.3	3.5	-15.1	-1.1	-0.22	0.0	0.0	24.1	0.0	6.7	30.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.7	-59.3	3.5	-5.6	-1.9	-0.34	0.0	0.0	32.6	0.0	6.7	39.3
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.1	-59.3	3.5	-4.2	-1.8	-0.34	0.0	0.0	34.2	0.0	6.7	40.9
P602 100 HP	CNEL	94.1		116.5	-52.3	2.0	0.0	-0.6		0.0	0.0	43.1	0.0	6.7	49.8
P603 60 HP	CNEL	95.0		111.2	-51.9	2.1	0.0	-0.8		0.0	1.5	45.9	0.0	6.7	52.6
P605 40 HP	CNEL	95.0		112.5	-52.0	2.1	0.0	-0.8		0.0	0.0	44.3	0.0	6.7	51.0
P607 15 HP	CNEL	90.5		121.9	-52.7	2.2	0.0	-0.6		0.0	0.0	39.4	0.0	6.7	46.1
P608 15 HP	CNEL	90.5		124.5	-52.9	2.3	0.0	-0.6		0.0	0.0	39.3	0.0	6.7	45.9
P611 15 HP	CNEL	90.5		119.2	-52.5	2.2	0.0	-0.6		0.0	0.0	39.5	0.0	6.7	46.2
P614/615 20 HP	CNEL	93.0		117.6	-52.4	1.8	-5.7	-0.5		0.0	3.0	39.3	0.0	6.7	45.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	98.8	-50.9	0.3	-1.1	-0.3		0.0	0.1	82.8	-38.6	0.0	44.2
Scanner Blower C-084A/B	CNEL	95.5		149.9	-54.5	2.2	-11.5	-0.5		0.0	2.6	33.8	0.0	6.7	40.5
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	157.3	-54.9	1.9	-11.8	-0.1		0.0	2.1	8.7	0.0	6.7	15.4
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	157.2	-54.9	1.9	-9.3	-0.1		0.0	1.3	8.7	0.0	6.7	15.4
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	155.8	-54.8	1.2	-3.8	-0.2		0.0	0.6	12.6	0.0	6.7	19.2
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	154.1	-54.7	1.9	-5.6	-0.1		0.0	0.0	12.9	0.0	6.7	19.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	155.2	-54.8	1.8	-4.9	-0.2		0.0	0.0	13.8	0.0	6.7	20.4
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	151.1	-54.6	1.8	-6.9	-0.2		0.0	0.0	20.3	0.0	6.7	26.9
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	153.3	-54.7	1.6	-16.2	-0.1		0.0	8.8	18.7	0.0	6.7	25.3
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	154.2	-54.8	1.9	-15.1	-0.1		0.0	5.1	27.2	0.0	6.7	33.9
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	152.9	-54.7	1.9	-15.1	-0.1		0.0	5.5	19.3	0.0	6.7	25.9
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	152.6	-54.7	1.1	-4.5	-0.3		0.0	1.1	28.1	0.0	6.7	34.8
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	151.1	-54.6	1.8	-7.0	-0.2		0.0	0.0	30.2	0.0	6.7	36.9
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	151.5	-54.6	1.9	-7.0	-0.2		0.0	0.0	21.6	0.0	6.7	28.2
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	151.6	-54.6	2.1	-10.6	-0.5		0.0	3.2	38.8	0.0	6.7	45.4
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	153.5	-54.7	2.3	-19.2	-0.6		0.0	9.6	42.1	0.0	6.7	48.7
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	151.8	-54.6	1.6	-6.2	-0.9		0.0	1.7	42.9	0.0	6.7	49.6
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	150.1	-54.5	2.2	-10.5	-0.6		0.0	0.1	41.4	0.0	6.7	48.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	153.4	-54.7	2.2	-21.6	-0.7		0.0	1.2	19.9	0.0	6.7	26.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	151.0	-54.6	2.1	-18.5	-0.5		0.0	1.8	24.0	0.0	6.7	30.7
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	154.3	-54.8	0.9	-4.4	-0.2		0.0	1.0	20.6	0.0	6.7	27.3
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	155.5	-54.8	1.9	-13.4	-0.1		0.0	3.1	8.5	0.0	6.7	15.2
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	157.1	-54.9	1.8	-14.4	-0.1		0.0	4.4	15.7	0.0	6.7	22.4
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	157.3	-54.9	1.7	-13.7	-0.1		0.0	3.9	10.3	0.0	6.7	17.0
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	151.3	-54.6	1.7	-6.9	-0.2		0.0	0.0	13.9	0.0	6.7	20.5
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	151.4	-54.6	1.7	-6.7	-0.2		0.0	0.0	19.2	0.0	6.7	25.9
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	152.9	-54.7	1.6	-6.2	-0.2		0.0	0.0	13.9	0.0	6.7	20.6
Tank Farm Pump 1	CNEL	99.0	3	270.9	-59.6	4.0	-11.5	-1.3		0.0	1.6	32.3	0.0	6.7	38.9
Tank Farm Pump 2	CNEL	99.0	3	285.5	-60.1	4.1	-15.6	-1.4		0.0	0.0	25.9	0.0	6.7	32.6
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	4.1	-18.1	-1.4		0.0	0.0	23.4	0.0	6.7	30.0
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	209.4	-57.4	1.2	-0.3	-2.6		0.0	0.2	53.5	-16.8	0.0	36.7
Vaporizer Blower 1	CNEL	88.7		155.7	-54.8	2.8	-23.0	-0.6		0.0	13.2	26.2	0.0	6.7	32.9
Vaporizer Blower 2	CNEL	88.7		156.5	-54.9	2.9	-22.6	-0.6		0.0	14.0	27.4	0.0	6.7	34.0
Vaporizer Inlet Silencer	CNEL	73.7		156.0	-54.9	1.4	-14.0	-0.2		0.0	6.6	12.8	0.0	6.7	19.5
Vaporizer Motor 1	CNEL	83.6		155.8	-54.8	2.9	-23.6	-0.9		0.0	13.8	21.1	0.0	6.7	27.7
Vaporizer Motor 2	CNEL	83.6		156.6	-54.9	2.9	-23.4	-0.9		0.0	14.8	22.3	0.0	6.7	28.9
Water Treatment Pumps P-056A&B	CNEL	93.0		144.7	-54.2	2.9	-17.5	-0.9		0.0	4.4	27.7	0.0	6.7	34.4
XF-1502 Splitter Area 1	CNEL	104.5		256.9	-59.2	1.5	0.0	-1.8	-0.01	-4.5	0.0	40.5	0.0	6.7	47.2
XF-1502 Splitter Area 2	CNEL	104.5		253.4	-59.1	1.5	-6.0	-1.2		-3.9	0.0	35.9	0.0	6.7	42.5
XF-1504 Splitter Area 1	CNEL	104.5		255.4	-59.1	1.5	-1.2	-2.2	-0.06	-4.6	0.0	38.9	0.0	6.7	45.6
XF-1504 Splitter Area 2	CNEL	104.5		251.9	-59.0	1.5	-0.8	-2.0		-4.6	0.0	39.5	0.0	6.7	46.2
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	0.8	-1.6	-1.2		-3.2	0.2	44.6	0.0	6.7	51.2
XF 313, XF 314	CNEL	113.0	18	338.1	-61.6	1.6	-4.8	-1.1	-0.10	-3.6	0.2	43.5	0.0	6.7	50.2
XF 335-1, XF 335-2	CNEL	113.4	54	321.8	-61.1	1.0	-3.5	-1.7	0.00	-3.3	0.1	44.9	0.0	6.7	51.6
XF 503	CNEL	113.0	21	258.2	-59.2	1.2	-1.7	-2.6	-0.81	-4.0	0.0	45.9	0.0	6.7	52.5
XF - 1601	CNEL	96.6		241.5	-58.6	1.0	0.0	-0.9		-3.0	0.0	35.0	0.0	6.7	41.7
XF - 1602	CNEL	96.6		239.8	-58.6	1.1	0.0	-0.9		-3.0	0.0	35.2	0.0	6.7	41.8
XF Module 1510	CNEL	108.3		252.0	-59.0	1.4	0.0	-1.8	-0.11	-4.5	0.0	44.3	0.0	6.7	51.0
XF Module 1519	CNEL	109.0		257.0	-59.2	1.4	0.0	-1.8	-0.22	-4.5	0.0	44.7	0.0	6.7	51.4
xxxx xxxx xxxx xxxx	CNEL		606								0.8				29.1
xxxx xxxx xxxx xxxx	CNEL		606								0.7				29.2
xxxx xxxx xxxx xxxx	CNEL		917								1.4				46.6
xxxx xxxx xxxx xxxx	CNEL		917								1.6				46.4
xxxx xxxx xxxx xxxx	CNEL		608								1.3				28.4
xxxx xxxx xxxx xxxx	CNEL		608								1.4				28.3
xxxx xxxx xxxx xxxx	CNEL		1172								2.5				47.9
xxxx xxxx xxxx xxxx	CNEL		520								2.6				23.2
xxxx xxxx xxxx xxxx	CNEL		572								5.0				34.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-6 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.0 dB(A) Ld 7-19 dB(A) Leq,N 64.7 dB(A) Le 19-22 dB(A) CNEL 71.5 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	155.2	-54.8	2.5	-1.2	0.0		0.0	0.0	39.9	0.0	6.7	46.6
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	98.0	-50.8	1.3	-0.2	-1.9		0.0	0.1	57.4	-10.8	0.0	46.6
Air Compressor C 1	CNEL	110.0	5	314.8	-61.0	3.5	-5.9	-0.7	-0.53	0.0	1.4	46.8	0.0	6.7	53.4
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		139.5	-53.9	2.5	-18.8	-1.8		0.0	6.9	35.2	0.0	6.7	41.9
Asphalt Production	CNEL	113.8	1206	120.8	-52.6	2.1	-2.6	-1.8		0.0	0.1	59.1	0.0	6.7	65.7
BFW Pumps P-073A&B	CNEL	95.8		141.4	-54.0	2.5	-18.3	-0.9		0.0	6.4	31.5	0.0	6.7	38.2
Blower F 401	CNEL	113.0		213.0	-57.6	1.9	-12.4	-0.3		0.0	1.4	46.1	0.0	6.7	52.8
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.1	-53.9	2.3	-8.9	-0.4		0.0	0.0	37.7	0.0	6.7	44.4
Brine Transfer P-085	CNEL	96.2		143.5	-54.1	2.5	-16.5	-0.8		0.0	4.0	31.2	0.0	6.7	37.9
Burner H301 North	CNEL	96.1	10	354.7	-62.0	3.4	-19.5	-1.4	-0.89	0.0	3.6	22.2	0.0	6.7	28.8
Burner H301 South	CNEL	95.9	10	351.6	-61.9	3.3	-4.5	-1.8	-1.71	0.0	0.1	32.4	0.0	6.7	39.1
Burner H302 North	CNEL	97.0	13	342.5	-61.7	3.3	-20.3	-1.4	-1.26	0.0	0.1	18.7	0.0	6.7	25.4
Burner H302 South	CNEL	97.0	13	340.0	-61.6	3.2	-10.3	-1.4	-0.98	0.0	0.0	28.9	0.0	6.7	35.6
Burner H303 North	CNEL	97.0	13	311.1	-60.9	2.9	-22.4	-1.6	-0.44	0.0	10.1	27.8	0.0	6.7	34.4
Burner H303 South	CNEL	97.0	13	308.3	-60.8	2.9	-10.4	-1.1	-0.63	0.0	0.4	30.4	0.0	6.7	37.0
Burner H304 North	CNEL	97.0	13	319.1	-61.1	3.0	-21.7	-1.5	-0.42	0.0	6.3	24.6	0.0	6.7	31.3
Burner H304 South	CNEL	97.0	13	316.2	-61.0	3.0	-12.8	-1.2	-0.85	0.0	2.0	29.2	0.0	6.7	35.9
Burner H305 North	CNEL	96.3	11	325.9	-61.3	3.1	-20.4	-1.4	-0.55	0.0	9.4	28.2	0.0	6.7	34.9
Burner H305 South	CNEL	96.3	11	323.0	-61.2	3.1	-14.5	-1.3	-0.74	0.0	0.5	25.2	0.0	6.7	31.8
Burner H306 North	CNEL	95.0	8	333.1	-61.4	3.2	-19.5	-1.4	-0.29	0.0	1.5	20.2	0.0	6.7	26.8
Burner H306 South	CNEL	95.1	8	330.6	-61.4	3.2	-6.5	-1.4	-1.52	0.0	0.1	30.4	0.0	6.7	37.1
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	2.3	-12.5	-1.0	-0.85	2.8	3.1	39.2	0.0	6.7	45.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.7	-59.5	2.4	-2.6	-1.8	-1.18	0.0	0.4	38.3	0.0	6.7	44.9
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	2.3	-16.7	-0.6	-0.98	-7.8	11.9	34.9	0.0	6.7	41.5
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	2.2	-11.3	-1.2	-0.66	2.0	0.0	42.2	0.0	6.7	48.9
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.6	-59.4	2.3	-9.2	-0.9	-1.05	1.7	0.8	38.1	0.0	6.7	44.8
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.2	-15.9	-0.6	-0.46	-7.5	0.0	18.3	0.0	6.7	25.0
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.4	-58.3	2.6	-2.7	-1.6		4.1	0.0	41.9	0.0	6.7	48.6
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.1	-58.5	2.5	-16.8	-0.7		-5.9	0.0	18.6	0.0	6.7	25.2
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.6	-57.9	2.4	-1.7	-1.5		4.5	0.0	46.4	0.0	6.7	53.1
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.4	-11.1	-0.7		-5.2	0.0	27.9	0.0	6.7	34.6
Cooling Tower M 512	CNEL	95.7		227.8	-58.1	2.7	0.0	-1.2		0.0	1.0	40.0	0.0	6.7	46.7
Cooling Tower M 513	CNEL	95.7		228.2	-58.2	2.6	0.0	-1.2		0.0	1.0	40.0	0.0	6.7	46.6
Cooling Tower M 514	CNEL	95.7		227.1	-58.1	2.7	-2.0	-1.1		0.0	1.4	38.6	0.0	6.7	45.3
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	159.6	-55.1	2.5	-4.0	-1.9		0.0	0.5	55.7	0.0	6.7	62.4
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	159.6	-55.1	2.5	-3.7	-1.9		0.0	0.4	56.1	0.0	6.7	62.7
CT Y-600-CT Y-600 North	CNEL	96.4	51	100.7	-51.0	1.8	-17.3	-0.3		0.0	1.0	33.6	0.0	6.7	40.3
CT Y-600-CT Y-600 South	CNEL	96.4	52	93.7	-50.4	1.4	0.0	-0.8		0.0	0.4	50.0	0.0	6.7	56.7
Deaerator Skid P-058A&B	CNEL	96.2		152.7	-54.7	2.1	-0.1	-1.4		0.0	0.0	42.2	0.0	6.7	48.8
Exhaust Stack	CNEL	100.6		156.9	-54.9	2.0	0.0	-0.3		0.0	0.0	47.4	0.0	6.7	54.1
F.G. After Cooler XF-083ABC	CNEL	100.2		140.2	-53.9	2.5	-10.6	-0.3		0.0	1.8	39.7	0.0	6.7	46.3
Fan Y-600	CNEL	107.5		97.3	-50.8	1.6	-9.7	-0.2		0.0	0.0	48.4	0.0	6.7	55.1
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	141.2	-54.0	1.6	-2.8	-0.1		0.0	0.0	27.2	0.0	6.7	33.8
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	142.0	-54.0	2.1	-5.0	-0.1		0.0	0.0	23.8	0.0	6.7	30.5
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	139.4	-53.9	2.6	-15.9	-0.7		0.0	0.0	6.3	0.0	6.7	12.9
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	144.7	-54.2	2.2	-9.5	-0.1		0.0	0.1	22.2	0.0	6.7	28.8
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	137.8	-53.8	1.8	-1.4	-0.1		0.0	0.0	21.5	0.0	6.7	28.2
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	140.6	-54.0	2.1	-3.1	-0.1		0.0	0.0	25.7	0.0	6.7	32.4
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	138.8	-53.8	2.6	-4.9	-1.3		0.0	1.1	17.8	0.0	6.7	24.4
Fin Fan XF 616 - Above	CNEL	96.0	75	122.8	-52.8	1.8	0.0	-0.3		-14.7	0.2	30.2	0.0	6.7	36.9
Fin Fan XF 616 - Below	CNEL	108.0	75	122.7	-52.8	1.8	0.0	-0.5		-6.4	0.3	50.5	0.0	6.7	57.1
Fin Fan XF 617 - Above	CNEL	93.0	21	130.9	-53.3	1.9	0.0	-0.3		-14.8	0.0	26.4	0.0	6.7	33.1
Fin Fan XF 617 - Below	CNEL	104.0	21	130.8	-53.3	1.9	0.0	-0.5		-6.4	0.0	45.7	0.0	6.7	52.3
Heater # 5-Heater	CNEL	91.1	13	142.8	-54.1	2.4	-0.1	-0.7		0.0	0.0	41.6	0.0	6.7	48.3
Heater # 5-Heater	CNEL	91.1	13	137.9	-53.8	2.3	-0.1	-0.7		0.0	0.0	41.9	0.0	6.7	48.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	132.9	-53.5	2.3	-0.1	-0.7		0.0	0.0	42.2	0.0	6.7	48.9
Heater H 601	CNEL	89.1	13	124.8	-52.9	1.9	-0.9	-0.9		0.0	1.1	37.4	0.0	6.7	44.1
Hydro Heater H-402	CNEL	98.1		239.5	-58.6	2.6	-0.4	-1.3		0.0	0.0	40.4	0.0	6.7	47.1
ID Fan	CNEL	110.3		337.9	-61.6	2.7	-19.2	-0.6		0.0	5.2	36.8	0.0	6.7	43.5
ID Fan 200 HP Motor	CNEL	104.4		336.5	-61.5	3.1	-23.2	-2.1	-0.73	0.0	0.1	20.0	0.0	6.7	26.7
Incinirator Compressor & Motor	CNEL	92.5		209.7	-57.4	2.5	-2.7	-1.6		0.0	0.0	33.3	0.0	6.7	40.0
Incinirator Fin Fan	CNEL	94.8		208.7	-57.4	2.5	-2.9	-1.5		0.0	0.0	35.5	0.0	6.7	42.2
Lub Oil Cooler XF-061	CNEL	100.5		155.4	-54.8	2.5	-15.2	-0.3		0.0	6.4	39.1	0.0	6.7	45.8
Misc pumps motors	CNEL	100.2	332	233.5	-58.4	2.7	-8.4	-1.6		0.0	0.2	34.8	0.0	6.7	41.5
Motor & Pump P 56A/B	CNEL	93.7		257.3	-59.2	2.9	0.0	-2.2	-0.28	0.0	0.1	35.0	0.0	6.7	41.6
Motor & Pump P 120/121	CNEL	96.2	2	303.1	-60.6	3.4	-18.2	-0.9	-0.51	0.0	0.0	19.4	0.0	6.7	26.1
Motor & Pump P 211/212	CNEL	93.7		246.4	-58.8	2.7	-10.1	-1.2	-0.75	0.0	0.0	25.5	0.0	6.7	32.2
Motor & Pump P 215/214	CNEL	94.6		250.7	-59.0	2.8	-4.2	-1.7	-0.86	0.0	0.4	32.2	0.0	6.7	38.8
Motor & Pump P 216	CNEL	98.3		250.6	-59.0	2.6	-5.4	-1.7	-0.75	0.0	0.0	34.0	0.0	6.7	40.7
Motor & Pump P 217/218	CNEL	93.7		248.1	-58.9	3.0	-9.7	-1.2	-0.80	0.0	1.0	27.1	0.0	6.7	33.8
Motor & Pump P 300	CNEL	97.1	2	310.6	-60.8	3.4	-17.7	-0.9	-0.48	0.0	1.0	21.7	0.0	6.7	28.3
Motor & Pump P 301	CNEL	102.1	2	309.1	-60.8	3.4	-18.3	-0.9	-0.48	0.0	1.6	26.6	0.0	6.7	33.3
Motor & Pump P 302	CNEL	97.1	2	312.2	-60.9	3.5	-16.2	-1.0	-0.11	0.0	1.2	23.6	0.0	6.7	30.3
Motor & Pump P 303	CNEL	97.1	2	313.6	-60.9	3.4	-15.4	-1.0	-0.16	0.0	1.1	24.1	0.0	6.7	30.8
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.4	-14.8	-0.9	-0.35	0.0	0.9	24.7	0.0	6.7	31.4
Motor & Pump P 306	CNEL	112.6	4	322.9	-61.2	3.4	-16.4	-0.9	-0.35	0.0	0.8	37.9	0.0	6.7	44.6
Motor & Pump P 307	CNEL	102.1	2	304.9	-60.7	3.4	-17.3	-1.0	-0.47	0.0	1.3	27.4	0.0	6.7	34.1
Motor & Pump P 309	CNEL	97.5	2	316.2	-61.0	3.4	-15.0	-1.0	-0.28	0.0	0.5	24.3	0.0	6.7	30.9
Motor & Pump P 312	CNEL	101.5	2	285.8	-60.1	3.3	-4.4	-1.1	-0.87	0.0	0.4	38.7	0.0	6.7	45.4
Motor & Pump P 313	CNEL	101.5	2	284.3	-60.1	3.3	-2.3	-1.3	-0.90	0.0	0.7	41.0	0.0	6.7	47.6
Motor & Pump P 315	CNEL	102.9	2	278.9	-59.9	3.1	-3.5	-1.2	-1.06	0.0	0.0	40.4	0.0	6.7	47.1
Motor & Pump P 316	CNEL	102.9	2	277.2	-59.8	3.1	-2.1	-1.3	-1.08	0.0	0.3	42.1	0.0	6.7	48.7
Motor & Pump P 317	CNEL	102.9	2	275.5	-59.8	3.1	-2.7	-1.2	-1.13	0.0	0.9	42.1	0.0	6.7	48.7
Motor & Pump P 318	CNEL	100.2	1	280.3	-59.9	3.3	-3.3	-1.1	-1.00	0.0	0.0	38.2	0.0	6.7	44.9
Motor & Pump P 319	CNEL	100.2	1	281.6	-60.0	3.3	-3.1	-1.1	-0.97	0.0	0.0	38.3	0.0	6.7	45.0
Motor & Pump P 327	CNEL	111.2	3	330.3	-61.4	3.6	-21.4	-1.7	-0.22	0.0	3.8	33.9	0.0	6.7	40.5
Motor & Pump P 328	CNEL	109.9	5	317.7	-61.0	3.3	-15.5	-1.0	-0.20	0.0	0.6	36.1	0.0	6.7	42.8
Motor & Pump P 329	CNEL	110.2	5	320.3	-61.1	3.4	-17.0	-1.1	-0.11	0.0	1.0	35.2	0.0	6.7	41.9
Motor & Pump P 451	CNEL	93.7		232.9	-58.3	2.6	-3.2	-1.8		0.0	0.0	33.0	0.0	6.7	39.6
Motor & Pump P 453	CNEL	93.7		221.4	-57.9	2.5	0.0	-2.0		0.0	0.0	36.2	0.0	6.7	42.9
Motor & Pump P 454	CNEL	93.7		234.0	-58.4	2.6	-4.0	-1.7		0.0	0.0	32.2	0.0	6.7	38.9
Motor & Pump P 457	CNEL	93.7		220.1	-57.8	2.5	0.0	-2.0		0.0	0.0	36.3	0.0	6.7	42.9
Motor & Pump P 458	CNEL	93.7		232.4	-58.3	2.6	0.0	-2.0		0.0	0.0	35.9	0.0	6.7	42.6
Motor & Pump P 459	CNEL	93.7		234.9	-58.4	2.7	-3.1	-1.7		0.0	0.0	33.2	0.0	6.7	39.8
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.4	-59.0	3.0	-17.7	-1.2		0.0	0.0	21.3	0.0	6.7	28.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		253.9	-59.1	3.0	-10.6	-1.2		0.0	0.0	28.4	0.0	6.7	35.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.9	-60.0	3.4	-10.7	-1.4	-0.24	0.0	3.9	30.2	0.0	6.7	36.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		282.9	-60.0	3.4	-11.1	-1.4	-0.25	0.0	4.2	30.1	0.0	6.7	36.8
Motor & Pump P 1601 A	CNEL	96.3	2	243.0	-58.7	2.8	-18.4	-1.1		0.0	0.0	20.9	0.0	6.7	27.6
Motor & Pump P 1601 B	CNEL	96.3	2	242.6	-58.7	2.8	-18.1	-1.1		0.0	0.0	21.2	0.0	6.7	27.9
Motor & Pump P 1602 A	CNEL	96.3	2	242.0	-58.7	2.8	-17.8	-1.1		0.0	0.0	21.5	0.0	6.7	28.2
Motor & Pump P 1602 B	CNEL	96.5	2	241.6	-58.7	2.7	-17.0	-1.1		0.0	0.0	22.5	0.0	6.7	29.2
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.3	-58.9	3.1	-14.2	-1.1	-0.08	0.0	0.0	25.4	0.0	6.7	32.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	253.9	-59.1	3.1	-11.1	-1.2	-0.20	0.0	0.0	28.1	0.0	6.7	34.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.2	-59.2	3.1	-11.8	-1.2	-0.25	0.0	0.0	27.3	0.0	6.7	34.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.0	-59.1	3.1	-11.2	-1.2		0.0	0.0	28.3	0.0	6.7	35.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.7	-59.2	3.1	-11.2	-1.2	-0.01	0.0	0.0	28.2	0.0	6.7	34.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.7	-59.2	3.2	-10.7	-1.3	-0.07	0.0	0.0	28.2	0.0	6.7	34.9
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.5	-59.3	3.2	-14.5	-1.0	-0.22	0.0	0.0	24.5	0.0	6.7	31.2
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.8	-59.3	3.2	-5.5	-1.9	-0.34	0.0	0.0	32.5	0.0	6.7	39.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.1	-59.3	3.2	-3.4	-1.9	-0.34	0.0	0.0	34.6	0.0	6.7	41.2
P602 100 HP	CNEL	94.1		116.6	-52.3	2.4	0.0	-0.6		0.0	0.0	43.5	0.0	6.7	50.2
P603 60 HP	CNEL	95.0		111.3	-51.9	2.4	0.0	-0.8		0.0	1.5	46.1	0.0	6.7	52.8
P605 40 HP	CNEL	95.0		112.6	-52.0	2.4	0.0	-0.8		0.0	0.0	44.6	0.0	6.7	51.3
P607 15 HP	CNEL	90.5		121.9	-52.7	2.4	0.0	-0.6		0.0	0.0	39.6	0.0	6.7	46.3
P608 15 HP	CNEL	90.5		124.6	-52.9	2.4	0.0	-0.6		0.0	0.0	39.4	0.0	6.7	46.1
P611 15 HP	CNEL	90.5		119.3	-52.5	2.4	0.0	-0.6		0.0	0.0	39.8	0.0	6.7	46.5
P614/615 20 HP	CNEL	93.0		117.7	-52.4	2.1	-5.6	-0.5		0.0	3.0	39.7	0.0	6.7	46.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	99.0	-50.9	0.6	-0.5	-0.3		0.0	0.1	83.6	-38.6	0.0	45.0
Scanner Blower C-084A/B	CNEL	95.5		150.0	-54.5	2.5	-10.7	-0.5		0.0	2.8	35.1	0.0	6.7	41.8
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	157.3	-54.9	2.4	-11.7	-0.1		0.0	2.7	9.9	0.0	6.7	16.6
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	157.3	-54.9	2.4	-9.6	-0.1		0.0	1.9	9.5	0.0	6.7	16.1
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	155.8	-54.8	2.1	-3.7	-0.2		0.0	0.6	13.5	0.0	6.7	20.1
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	154.1	-54.7	2.3	-5.4	-0.1		0.0	0.0	13.6	0.0	6.7	20.3
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	155.3	-54.8	2.4	-4.7	-0.2		0.0	0.0	14.6	0.0	6.7	21.2
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	151.1	-54.6	2.3	-6.5	-0.2		0.0	0.1	21.2	0.0	6.7	27.9
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	153.4	-54.7	2.4	-14.5	-0.2		0.0	7.0	19.3	0.0	6.7	26.0
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	154.2	-54.8	2.3	-13.2	-0.2		0.0	4.4	28.7	0.0	6.7	35.4
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	153.0	-54.7	2.3	-12.9	-0.2		0.0	4.0	20.3	0.0	6.7	27.0
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	152.6	-54.7	1.9	-4.8	-0.3		0.0	1.1	28.6	0.0	6.7	35.3
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	151.2	-54.6	2.3	-6.6	-0.2		0.0	0.1	31.1	0.0	6.7	37.8
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	151.5	-54.6	2.3	-6.5	-0.2		0.0	0.1	22.5	0.0	6.7	29.1
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	151.7	-54.6	2.6	-9.6	-0.5		0.0	2.7	39.7	0.0	6.7	46.4
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	153.5	-54.7	2.5	-18.4	-0.5		0.0	8.9	42.6	0.0	6.7	49.3
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	151.8	-54.6	2.3	-5.4	-1.0		0.0	1.4	44.1	0.0	6.7	50.8
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	150.2	-54.5	2.5	-9.4	-0.6		0.0	0.1	42.8	0.0	6.7	49.5
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	153.4	-54.7	2.5	-18.2	-0.5		0.0	0.6	23.1	0.0	6.7	29.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	151.0	-54.6	2.5	-17.5	-0.5		0.0	1.7	25.3	0.0	6.7	32.0
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	154.3	-54.8	1.9	-4.7	-0.2		0.0	1.0	21.3	0.0	6.7	27.9
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	155.6	-54.8	2.3	-12.2	-0.1		0.0	3.1	10.2	0.0	6.7	16.8
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	157.1	-54.9	2.3	-12.8	-0.1		0.0	4.1	17.5	0.0	6.7	24.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	157.4	-54.9	2.3	-12.1	-0.1		0.0	3.7	12.1	0.0	6.7	18.8
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	151.4	-54.6	2.3	-6.6	-0.2		0.0	0.1	14.8	0.0	6.7	21.5
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	151.4	-54.6	2.3	-6.4	-0.2		0.0	0.1	20.1	0.0	6.7	26.8
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	153.0	-54.7	2.3	-6.0	-0.2		0.0	0.1	14.8	0.0	6.7	21.5
Tank Farm Pump 1	CNEL	99.0	3	270.9	-59.6	3.5	-8.8	-1.3		0.0	2.2	34.9	0.0	6.7	41.6
Tank Farm Pump 2	CNEL	99.0	3	285.5	-60.1	3.6	-15.4	-1.3		0.0	0.0	25.7	0.0	6.7	32.4
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	3.6	-17.8	-1.3		0.0	0.0	23.3	0.0	6.7	30.0
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	209.5	-57.4	1.3	-0.2	-2.5		0.0	0.1	53.6	-16.8	0.0	36.8
Vaporizer Blower 1	CNEL	88.7		155.8	-54.8	2.6	-18.8	-0.7		0.0	12.5	29.4	0.0	6.7	36.1
Vaporizer Blower 2	CNEL	88.7		156.6	-54.9	2.6	-18.4	-0.6		0.0	12.7	30.0	0.0	6.7	36.7
Vaporizer Inlet Silencer	CNEL	73.7		156.1	-54.9	2.4	-11.6	-0.2		0.0	4.9	14.3	0.0	6.7	21.0
Vaporizer Motor 1	CNEL	83.6		155.9	-54.8	2.6	-19.2	-0.9		0.0	13.1	24.3	0.0	6.7	31.0
Vaporizer Motor 2	CNEL	83.6		156.7	-54.9	2.6	-19.0	-0.9		0.0	13.5	24.9	0.0	6.7	31.6
Water Treatment Pumps P-056A&B	CNEL	93.0		144.8	-54.2	2.5	-17.1	-0.9		0.0	4.8	28.1	0.0	6.7	34.8
XF-1502 Splitter Area 1	CNEL	104.5		256.9	-59.2	2.1	0.0	-1.7	0.00	-4.3	0.0	41.4	0.0	6.7	48.1
XF-1502 Splitter Area 2	CNEL	104.5		253.3	-59.1	2.1	-5.9	-1.1		-3.6	0.0	36.9	0.0	6.7	43.6
XF-1504 Splitter Area 1	CNEL	104.5		255.3	-59.1	2.2	-0.5	-1.9	-0.03	-4.5	0.0	40.6	0.0	6.7	47.2
XF-1504 Splitter Area 2	CNEL	104.5		251.8	-59.0	2.1	-0.3	-1.8		-4.5	0.0	41.0	0.0	6.7	47.7
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	1.8	-2.5	-1.1		-2.9	0.2	45.3	0.0	6.7	51.9
XF 313, XF 314	CNEL	113.0	18	338.0	-61.6	2.3	-4.6	-1.1	-0.10	-3.4	0.2	44.7	0.0	6.7	51.3
XF 335-1, XF 335-2	CNEL	113.4	54	321.8	-61.1	2.0	-3.3	-1.5	0.00	-3.2	0.1	46.3	0.0	6.7	53.0
XF 503	CNEL	113.0	21	258.2	-59.2	1.9	-1.4	-2.5	-0.83	-3.8	0.0	47.2	0.0	6.7	53.9
XF - 1601	CNEL	96.6		241.3	-58.6	2.1	0.0	-0.8		-2.6	0.0	36.7	0.0	6.7	43.4
XF - 1602	CNEL	96.6		239.7	-58.6	2.1	0.0	-0.8		-2.6	0.0	36.8	0.0	6.7	43.4
XF Module 1510	CNEL	108.3		251.9	-59.0	2.1	0.0	-1.7	-0.11	-4.3	0.0	45.3	0.0	6.7	51.9
XF Module 1519	CNEL	109.0		256.9	-59.2	2.1	0.0	-1.7	-0.23	-4.3	0.0	45.7	0.0	6.7	52.3
xxxx xxxx xxxx xxxx	CNEL		606								1.0				30.7
xxxx xxxx xxxx xxxx	CNEL		606								1.0				30.8
xxxx xxxx xxxx xxxx	CNEL		917								1.5				47.9
xxxx xxxx xxxx xxxx	CNEL		917								1.7				47.6
xxxx xxxx xxxx xxxx	CNEL		608								1.1				29.4
xxxx xxxx xxxx xxxx	CNEL		608								1.2				29.3
xxxx xxxx xxxx xxxx	CNEL		1172								3.4				48.9
xxxx xxxx xxxx xxxx	CNEL		520								2.5				24.8
xxxx xxxx xxxx xxxx	CNEL		572								6.1				35.0

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver SS-6 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.3 dB(A) Ld 7-19 dB(A) Leq,N 65.0 dB(A) Le 19-22 dB(A) CNEL 71.7 dB(A) Lmax day hr dB(A) Ld 7-1															
2.8-Open Intake	CNEL	90.5	8	155.1	-54.8	2.6	-1.3	0.0		0.0	0.0	40.0	0.0	6.7	46.6
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	98.3	-50.8	1.3	-0.1	-1.9		0.0	0.1	57.5	-10.8	0.0	46.7
Air Compressor C 1	CNEL	110.0	5	314.9	-61.0	3.0	-4.4	-0.9	-0.52	0.0	1.6	47.8	0.0	6.7	54.4
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		139.6	-53.9	2.5	-18.7	-1.8		0.0	8.3	36.7	0.0	6.7	43.4
Asphalt Production	CNEL	113.8	1206	120.9	-52.6	2.1	-2.6	-1.7		0.0	0.3	59.2	0.0	6.7	65.9
BFW Pumps P-073A&B	CNEL	95.8		141.5	-54.0	2.5	-18.2	-0.9		0.0	7.1	32.3	0.0	6.7	38.9
Blower F 401	CNEL	113.0		213.1	-57.6	2.3	-12.2	-0.3		0.0	1.5	46.9	0.0	6.7	53.5
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.2	-53.9	2.4	-8.9	-0.4		0.0	0.0	37.9	0.0	6.7	44.5
Brine Transfer P-085	CNEL	96.2		143.7	-54.1	2.5	-16.5	-0.8		0.0	4.5	31.7	0.0	6.7	38.4
Burner H301 North	CNEL	96.1	10	354.7	-62.0	2.9	-19.4	-1.4	-0.64	0.0	3.9	22.4	0.0	6.7	29.1
Burner H301 South	CNEL	95.9	10	351.7	-61.9	2.9	-4.9	-1.9	-1.55	0.0	0.2	31.7	0.0	6.7	38.4
Burner H302 North	CNEL	97.0	13	342.5	-61.7	2.8	-20.2	-1.4	-1.26	0.0	0.1	18.3	0.0	6.7	24.9
Burner H302 South	CNEL	97.0	13	340.0	-61.6	2.8	-10.1	-1.5	-0.99	0.0	0.0	28.5	0.0	6.7	35.2
Burner H303 North	CNEL	97.0	13	311.2	-60.9	2.4	-22.1	-1.6	-0.53	0.0	11.7	29.0	0.0	6.7	35.7
Burner H303 South	CNEL	97.0	13	308.3	-60.8	2.4	-7.8	-1.3	-0.62	0.0	0.3	32.2	0.0	6.7	38.9
Burner H304 North	CNEL	97.0	13	319.1	-61.1	2.5	-21.5	-1.5	-0.43	0.0	7.1	25.1	0.0	6.7	31.8
Burner H304 South	CNEL	97.0	13	316.2	-61.0	2.5	-10.1	-1.4	-0.87	0.0	1.6	30.8	0.0	6.7	37.4
Burner H305 North	CNEL	96.3	11	325.9	-61.3	2.6	-20.2	-1.4	-0.56	0.0	9.8	28.3	0.0	6.7	35.0
Burner H305 South	CNEL	96.3	11	323.0	-61.2	2.6	-12.9	-1.5	-0.81	0.0	0.4	25.9	0.0	6.7	32.6
Burner H306 North	CNEL	95.0	8	333.2	-61.4	2.7	-19.3	-1.4	-0.31	0.0	1.6	19.8	0.0	6.7	26.5
Burner H306 South	CNEL	95.1	8	330.6	-61.4	2.7	-5.4	-1.6	-1.53	0.0	0.1	30.8	0.0	6.7	37.5
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	2.4	-12.1	-1.0	-0.85	2.8	3.1	39.7	0.0	6.7	46.4
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.7	-59.5	2.5	-2.5	-1.9	-1.17	0.0	0.4	38.3	0.0	6.7	45.0
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	2.4	-14.8	-0.7	-0.95	-7.8	10.0	34.9	0.0	6.7	41.6
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	2.3	-11.0	-1.1	-0.65	2.0	0.0	42.7	0.0	6.7	49.3
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.7	-59.4	2.4	-8.7	-0.9	-1.04	1.7	0.8	38.7	0.0	6.7	45.4
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.3	-14.3	-0.8	-0.46	-7.5	0.0	19.8	0.0	6.7	26.5
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.5	-58.3	2.6	-2.1	-1.6		4.1	0.0	42.6	0.0	6.7	49.3
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.1	-58.5	2.6	-16.5	-0.6		-5.9	0.0	18.9	0.0	6.7	25.6
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.7	-57.9	2.5	-1.5	-1.5		4.5	0.0	46.6	0.0	6.7	53.3
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.6	-9.6	-0.8		-5.2	0.0	29.5	0.0	6.7	36.2
Cooling Tower M 512	CNEL	95.7		227.8	-58.1	2.6	0.0	-1.2		0.0	1.0	39.9	0.0	6.7	46.6
Cooling Tower M 513	CNEL	95.7		228.3	-58.2	2.6	0.0	-1.2		0.0	1.0	39.9	0.0	6.7	46.6
Cooling Tower M 514	CNEL	95.7		227.1	-58.1	2.6	-2.0	-1.1		0.0	1.4	38.5	0.0	6.7	45.2
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	159.7	-55.1	2.6	-3.7	-1.9		0.0	0.4	56.1	0.0	6.7	62.8
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	159.6	-55.1	2.5	-3.3	-1.9		0.0	0.4	56.4	0.0	6.7	63.1
CT Y-600-CT Y-600 North	CNEL	96.4	51	100.8	-51.1	1.9	-16.6	-0.3		0.0	1.4	34.7	0.0	6.7	41.3
CT Y-600-CT Y-600 South	CNEL	96.4	52	93.8	-50.4	1.5	0.0	-0.8		0.0	0.0	49.7	0.0	6.7	56.4
Deaerator Skid P-058A&B	CNEL	96.2		152.7	-54.7	2.1	0.0	-1.4		0.0	0.0	42.3	0.0	6.7	48.9
Exhaust Stack	CNEL	100.6		156.8	-54.9	2.0	0.0	-0.3		0.0	0.0	47.5	0.0	6.7	54.2
F.G. After Cooler XF-083ABC	CNEL	100.2		140.3	-53.9	2.5	-10.3	-0.3		0.0	1.7	39.9	0.0	6.7	46.6
Fan Y-600	CNEL	107.5		97.2	-50.7	1.7	-9.2	-0.2		0.0	0.0	49.0	0.0	6.7	55.6
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	141.2	-54.0	1.8	-2.7	-0.1		0.0	0.0	27.5	0.0	6.7	34.2
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	142.1	-54.0	2.4	-4.9	-0.1		0.0	0.0	24.1	0.0	6.7	30.8
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	139.5	-53.9	2.6	-15.9	-0.7		0.0	0.0	6.3	0.0	6.7	13.0
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	144.8	-54.2	2.4	-9.4	-0.1		0.0	0.1	22.5	0.0	6.7	29.2
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	137.9	-53.8	2.3	-1.4	-0.1		0.0	0.0	22.0	0.0	6.7	28.7
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	140.7	-54.0	2.4	-3.2	-0.1		0.0	0.0	25.9	0.0	6.7	32.6
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	138.9	-53.8	2.6	-4.9	-1.3		0.0	1.1	17.8	0.0	6.7	24.4
Fin Fan XF 616 - Above	CNEL	96.0	75	122.6	-52.8	1.9	0.0	-0.3		-13.4	0.0	31.4	0.0	6.7	38.1
Fin Fan XF 616 - Below	CNEL	108.0	75	122.6	-52.8	1.9	0.0	-0.5		-7.0	0.0	49.6	0.0	6.7	56.3
Fin Fan XF 617 - Above	CNEL	93.0	21	130.7	-53.3	1.9	0.0	-0.3		-13.5	0.0	27.8	0.0	6.7	34.4
Fin Fan XF 617 - Below	CNEL	104.0	21	130.7	-53.3	1.9	0.0	-0.5		-7.0	0.0	45.1	0.0	6.7	51.8
Heater # 5-Heater	CNEL	91.1	13	142.9	-54.1	2.4	0.0	-0.7		0.0	0.0	41.7	0.0	6.7	48.4
Heater # 5-Heater	CNEL	91.1	13	138.0	-53.8	2.4	0.0	-0.7		0.0	0.0	42.0	0.0	6.7	48.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	133.0	-53.5	2.4	0.0	-0.7		0.0	0.0	42.3	0.0	6.7	49.0
Heater H 601	CNEL	89.1	13	124.9	-52.9	2.0	-0.4	-0.8		0.0	1.3	38.3	0.0	6.7	45.0
Hydro Heater H-402	CNEL	98.1		239.6	-58.6	2.5	0.0	-1.2		0.0	0.0	40.9	0.0	6.7	47.6
ID Fan	CNEL	110.3		338.0	-61.6	2.4	-18.9	-0.6	-0.80	0.0	5.7	36.5	0.0	6.7	43.2
ID Fan 200 HP Motor	CNEL	104.4		336.5	-61.5	2.7	-23.1	-2.0	-0.73	0.0	0.1	19.7	0.0	6.7	26.4
Incinirator Compressor & Motor	CNEL	92.5		209.8	-57.4	2.5	-1.0	-1.2		0.0	0.0	35.3	0.0	6.7	42.0
Incinirator Fin Fan	CNEL	94.8		208.8	-57.4	2.5	-1.1	-1.3		0.0	0.0	37.5	0.0	6.7	44.2
Lub Oil Cooler XF-061	CNEL	100.5		155.5	-54.8	2.6	-14.9	-0.3		0.0	6.4	39.4	0.0	6.7	46.1
Misc pumps motors	CNEL	100.2	332	233.6	-58.4	2.8	-7.4	-1.9		0.0	0.3	35.6	0.0	6.7	42.3
Motor & Pump P 56A/B	CNEL	93.7		257.4	-59.2	2.6	0.0	-2.2	-0.28	0.0	0.3	34.9	0.0	6.7	41.6
Motor & Pump P 120/121	CNEL	96.2	2	303.2	-60.6	2.8	-16.3	-1.0	-0.50	0.0	0.0	20.5	0.0	6.7	27.2
Motor & Pump P 211/212	CNEL	93.7		246.4	-58.8	2.5	-7.7	-1.3	-0.75	0.0	0.0	27.5	0.0	6.7	34.2
Motor & Pump P 215/214	CNEL	94.6		250.8	-59.0	2.5	-3.7	-1.8	-0.85	0.0	0.4	32.2	0.0	6.7	38.9
Motor & Pump P 216	CNEL	98.3		250.7	-59.0	2.4	-4.8	-1.9	-0.74	0.0	0.0	34.3	0.0	6.7	41.0
Motor & Pump P 217/218	CNEL	93.7		248.2	-58.9	2.5	-7.7	-1.3	-0.80	0.0	0.9	28.3	0.0	6.7	34.9
Motor & Pump P 300	CNEL	97.1	2	310.7	-60.8	2.9	-15.7	-1.0	-0.48	0.0	0.3	22.3	0.0	6.7	28.9
Motor & Pump P 301	CNEL	102.1	2	309.2	-60.8	2.8	-16.3	-1.0	-0.48	0.0	1.6	27.9	0.0	6.7	34.6
Motor & Pump P 302	CNEL	97.1	2	312.3	-60.9	2.9	-15.6	-1.0	-0.15	0.0	0.3	22.7	0.0	6.7	29.4
Motor & Pump P 303	CNEL	97.1	2	313.6	-60.9	2.8	-14.8	-1.0	-0.19	0.0	0.5	23.6	0.0	6.7	30.3
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	2.9	-13.6	-1.0	-0.38	0.0	0.2	24.7	0.0	6.7	31.3
Motor & Pump P 306	CNEL	112.6	4	323.0	-61.2	2.8	-16.1	-0.9	-0.36	0.0	0.6	37.5	0.0	6.7	44.2
Motor & Pump P 307	CNEL	102.1	2	304.9	-60.7	2.8	-16.0	-1.1	-0.47	0.0	1.8	28.5	0.0	6.7	35.2
Motor & Pump P 309	CNEL	97.5	2	316.3	-61.0	2.9	-13.9	-1.0	-0.32	0.0	0.1	24.3	0.0	6.7	31.0
Motor & Pump P 312	CNEL	101.5	2	285.9	-60.1	2.7	-4.2	-1.1	-0.87	0.0	0.5	38.4	0.0	6.7	45.1
Motor & Pump P 313	CNEL	101.5	2	284.3	-60.1	2.7	-2.2	-1.3	-0.90	0.0	0.8	40.5	0.0	6.7	47.2
Motor & Pump P 315	CNEL	102.9	2	279.0	-59.9	2.5	-3.3	-1.2	-1.06	0.0	0.0	40.0	0.0	6.7	46.7
Motor & Pump P 316	CNEL	102.9	2	277.3	-59.9	2.5	-2.0	-1.3	-1.08	0.0	0.3	41.6	0.0	6.7	48.3
Motor & Pump P 317	CNEL	102.9	2	275.5	-59.8	2.5	-2.5	-1.2	-1.13	0.0	0.9	41.7	0.0	6.7	48.4
Motor & Pump P 318	CNEL	100.2	1	280.4	-59.9	2.7	-3.0	-1.1	-1.00	0.0	0.0	37.9	0.0	6.7	44.5
Motor & Pump P 319	CNEL	100.2	1	281.7	-60.0	2.7	-2.8	-1.1	-0.96	0.0	0.0	38.0	0.0	6.7	44.7
Motor & Pump P 327	CNEL	111.2	3	330.4	-61.4	3.0	-21.3	-1.7	-0.23	0.0	4.0	33.6	0.0	6.7	40.3
Motor & Pump P 328	CNEL	109.9	5	317.8	-61.0	2.8	-14.6	-1.0	-0.24	0.0	0.2	36.1	0.0	6.7	42.7
Motor & Pump P 329	CNEL	110.2	5	320.3	-61.1	2.8	-16.9	-1.1	-0.11	0.0	0.8	34.5	0.0	6.7	41.2
Motor & Pump P 451	CNEL	93.7		233.0	-58.3	2.5	-3.2	-1.8		0.0	0.0	32.9	0.0	6.7	39.6
Motor & Pump P 453	CNEL	93.7		221.5	-57.9	2.5	0.0	-1.9		0.0	0.0	36.3	0.0	6.7	43.0
Motor & Pump P 454	CNEL	93.7		234.1	-58.4	2.5	-3.9	-1.7		0.0	0.0	32.2	0.0	6.7	38.9
Motor & Pump P 457	CNEL	93.7		220.2	-57.8	2.5	0.0	-1.9		0.0	0.0	36.4	0.0	6.7	43.0
Motor & Pump P 458	CNEL	93.7		232.4	-58.3	2.5	0.0	-2.0		0.0	0.0	35.8	0.0	6.7	42.5
Motor & Pump P 459	CNEL	93.7		235.0	-58.4	2.5	-3.1	-1.7		0.0	0.0	33.1	0.0	6.7	39.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.4	-59.0	2.6	-16.5	-1.5		0.0	0.0	21.8	0.0	6.7	28.5
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		254.0	-59.1	2.6	-10.4	-1.2		0.0	0.0	28.1	0.0	6.7	34.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.9	-60.0	2.7	-10.7	-1.4	-0.24	0.0	3.9	29.6	0.0	6.7	36.3
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		283.0	-60.0	2.7	-11.1	-1.4	-0.25	0.0	4.2	29.5	0.0	6.7	36.2
Motor & Pump P 1601 A	CNEL	96.3	2	243.1	-58.7	2.7	-16.0	-1.2		0.0	0.0	23.0	0.0	6.7	29.7
Motor & Pump P 1601 B	CNEL	96.3	2	242.6	-58.7	2.7	-15.9	-1.2		0.0	0.0	23.2	0.0	6.7	29.9
Motor & Pump P 1602 A	CNEL	96.3	2	242.1	-58.7	2.7	-15.7	-1.2		0.0	0.0	23.4	0.0	6.7	30.1
Motor & Pump P 1602 B	CNEL	96.5	2	241.7	-58.7	2.7	-15.2	-1.2		0.0	0.0	24.1	0.0	6.7	30.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.4	-58.9	2.6	-13.9	-1.1	-0.08	0.0	0.0	25.2	0.0	6.7	31.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	254.0	-59.1	2.7	-10.8	-1.2	-0.20	0.0	0.0	28.0	0.0	6.7	34.6
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.3	-59.2	2.7	-11.5	-1.2	-0.25	0.0	0.0	27.1	0.0	6.7	33.8
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.1	-59.1	2.6	-10.9	-1.2		0.0	0.0	28.1	0.0	6.7	34.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.8	-59.2	2.6	-10.9	-1.2	-0.01	0.0	0.0	28.0	0.0	6.7	34.7
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.8	-59.3	2.7	-9.9	-1.3	-0.07	0.0	0.0	28.5	0.0	6.7	35.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.5	-59.3	2.7	-12.6	-1.2	-0.22	0.0	0.0	25.7	0.0	6.7	32.4
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.8	-59.3	2.7	-5.5	-1.9	-0.34	0.0	0.0	32.0	0.0	6.7	38.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.2	-59.3	2.7	-3.2	-1.9	-0.34	0.0	0.0	34.1	0.0	6.7	40.8
P602 100 HP	CNEL	94.1		116.7	-52.3	2.4	0.0	-0.6		0.0	0.0	43.5	0.0	6.7	50.2
P603 60 HP	CNEL	95.0		111.4	-51.9	2.4	0.0	-0.8		0.0	1.5	46.1	0.0	6.7	52.8
P605 40 HP	CNEL	95.0		112.8	-52.0	2.4	0.0	-0.8		0.0	0.0	44.6	0.0	6.7	51.2
P607 15 HP	CNEL	90.5		122.1	-52.7	2.4	0.0	-0.6		0.0	0.0	39.6	0.0	6.7	46.3
P608 15 HP	CNEL	90.5		124.8	-52.9	2.4	0.0	-0.6		0.0	0.0	39.4	0.0	6.7	46.1
P611 15 HP	CNEL	90.5		119.4	-52.5	2.4	0.0	-0.6		0.0	0.0	39.8	0.0	6.7	46.5
P614/615 20 HP	CNEL	93.0		117.8	-52.4	2.1	-5.3	-0.5		0.0	2.9	39.8	0.0	6.7	46.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	99.4	-50.9	0.6	-0.3	-0.3		0.0	0.1	83.8	-38.6	0.0	45.2
Scanner Blower C-084A/B	CNEL	95.5		150.1	-54.5	2.6	-10.0	-0.5		0.0	2.8	35.8	0.0	6.7	42.5
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	157.4	-54.9	2.5	-11.6	-0.1		0.0	2.8	10.2	0.0	6.7	16.9
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	157.4	-54.9	2.5	-9.5	-0.1		0.0	1.9	9.8	0.0	6.7	16.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	155.9	-54.8	2.2	-3.6	-0.2		0.0	0.6	13.7	0.0	6.7	20.4
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	154.2	-54.8	2.5	-5.1	-0.1		0.0	0.0	14.1	0.0	6.7	20.7
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	155.4	-54.8	2.5	-4.4	-0.2		0.0	0.1	15.0	0.0	6.7	21.7
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	151.2	-54.6	2.5	-6.2	-0.2		0.0	0.1	21.6	0.0	6.7	28.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	153.5	-54.7	2.6	-14.3	-0.1		0.0	7.0	19.6	0.0	6.7	26.2
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	154.3	-54.8	2.4	-13.0	-0.2		0.0	4.4	29.0	0.0	6.7	35.6
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	153.1	-54.7	2.5	-12.4	-0.2		0.0	3.7	20.7	0.0	6.7	27.3
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	152.7	-54.7	2.0	-4.7	-0.3		0.0	1.1	28.8	0.0	6.7	35.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	151.3	-54.6	2.4	-6.3	-0.2		0.0	0.1	31.5	0.0	6.7	38.2
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	151.6	-54.6	2.4	-6.3	-0.2		0.0	0.1	22.8	0.0	6.7	29.5
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	151.8	-54.6	2.6	-8.9	-0.5		0.0	2.5	40.3	0.0	6.7	47.0
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	153.6	-54.7	2.6	-18.1	-0.5		0.0	8.9	42.9	0.0	6.7	49.6
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	151.9	-54.6	2.4	-4.9	-1.1		0.0	1.4	44.5	0.0	6.7	51.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	150.3	-54.5	2.6	-8.7	-0.6		0.0	0.1	43.5	0.0	6.7	50.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	153.5	-54.7	2.6	-18.0	-0.5		0.0	1.4	24.1	0.0	6.7	30.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	151.1	-54.6	2.5	-17.1	-0.5		0.0	2.1	26.2	0.0	6.7	32.9
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	154.3	-54.8	2.0	-4.7	-0.2		0.0	1.0	21.4	0.0	6.7	28.1
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	155.7	-54.8	2.5	-12.0	-0.1		0.0	3.1	10.4	0.0	6.7	17.1
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	157.2	-54.9	2.5	-12.7	-0.1		0.0	4.1	17.8	0.0	6.7	24.4
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	157.5	-54.9	2.4	-11.9	-0.1		0.0	3.6	12.5	0.0	6.7	19.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	151.5	-54.6	2.4	-6.4	-0.2		0.0	0.1	15.1	0.0	6.7	21.8
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	151.5	-54.6	2.4	-6.2	-0.2		0.0	0.1	20.5	0.0	6.7	27.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	153.1	-54.7	2.4	-5.8	-0.2		0.0	0.1	15.1	0.0	6.7	21.8
Tank Farm Pump 1	CNEL	99.0	3	271.0	-59.7	2.8	-5.4	-1.7		0.0	2.0	37.0	0.0	6.7	43.7
Tank Farm Pump 2	CNEL	99.0	3	285.6	-60.1	2.8	-15.3	-1.3		0.0	0.0	25.2	0.0	6.7	31.8
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	2.9	-17.8	-1.3		0.0	0.1	22.6	0.0	6.7	29.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	209.7	-57.4	1.3	-0.1	-2.5		0.0	0.1	53.8	-16.8	0.0	37.0
Vaporizer Blower 1	CNEL	88.7		155.9	-54.8	2.6	-18.7	-0.7		0.0	13.4	30.4	0.0	6.7	37.0
Vaporizer Blower 2	CNEL	88.7		156.7	-54.9	2.6	-18.3	-0.6		0.0	13.4	30.8	0.0	6.7	37.5
Vaporizer Inlet Silencer	CNEL	73.7		156.1	-54.9	2.5	-11.3	-0.2		0.0	4.7	14.6	0.0	6.7	21.3
Vaporizer Motor 1	CNEL	83.6		156.0	-54.9	2.6	-19.2	-0.9		0.0	14.1	25.3	0.0	6.7	32.0
Vaporizer Motor 2	CNEL	83.6		156.8	-54.9	2.6	-18.9	-0.9		0.0	14.2	25.8	0.0	6.7	32.4
Water Treatment Pumps P-056A&B	CNEL	93.0		145.0	-54.2	2.5	-17.0	-0.8		0.0	5.2	28.7	0.0	6.7	35.3
XF-1502 Splitter Area 1	CNEL	104.5		256.8	-59.2	2.3	0.0	-1.7	0.00	-4.2	0.0	41.7	0.0	6.7	48.4
XF-1502 Splitter Area 2	CNEL	104.5		253.3	-59.1	2.3	-5.8	-1.1		-3.6	0.0	37.2	0.0	6.7	43.9
XF-1504 Splitter Area 1	CNEL	104.5		255.3	-59.1	2.3	-0.2	-1.8	-0.02	-4.5	0.0	41.2	0.0	6.7	47.9
XF-1504 Splitter Area 2	CNEL	104.5		251.8	-59.0	2.3	-0.2	-1.8		-4.5	0.0	41.4	0.0	6.7	48.1
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	2.2	-2.3	-1.1		-2.7	0.2	46.0	0.0	6.7	52.6
XF 313, XF 314	CNEL	113.0	18	338.0	-61.6	2.6	-4.5	-1.1	-0.09	-3.3	0.0	45.1	0.0	6.7	51.7
XF 335-1, XF 335-2	CNEL	113.4	54	321.7	-61.1	2.3	-3.1	-1.5	0.00	-3.0	0.1	47.0	0.0	6.7	53.7
XF 503	CNEL	113.0	21	258.2	-59.2	2.2	-1.1	-2.5	-0.83	-3.7	0.0	47.8	0.0	6.7	54.5
XF - 1601	CNEL	96.6		241.2	-58.6	2.3	0.0	-0.8		-2.5	0.0	37.0	0.0	6.7	43.7
XF - 1602	CNEL	96.6		239.6	-58.6	2.3	0.0	-0.8		-2.5	0.0	37.1	0.0	6.7	43.8
XF Module 1510	CNEL	108.3		251.9	-59.0	2.3	0.0	-1.7	-0.11	-4.2	0.0	45.6	0.0	6.7	52.2
XF Module 1519	CNEL	109.0		256.9	-59.2	2.3	0.0	-1.7	-0.23	-4.2	0.0	45.9	0.0	6.7	52.6
xxxx xxxx xxxx xxxx	CNEL		606								1.1				32.3
xxxx xxxx xxxx xxxx	CNEL		606								1.1				32.3
xxxx xxxx xxxx xxxx	CNEL		917								1.2				48.7
xxxx xxxx xxxx xxxx	CNEL		917								1.2				48.2
xxxx xxxx xxxx xxxx	CNEL		608								0.9				30.6
xxxx xxxx xxxx xxxx	CNEL		608								0.9				30.4
xxxx xxxx xxxx xxxx	CNEL		1172								3.6				49.6
xxxx xxxx xxxx xxxx	CNEL		520								3.3				26.2
xxxx xxxx xxxx xxxx	CNEL		572								5.2				36.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 65.9 dB(A)			Ld 7-19 dB(A)		Leq,N 65.9 dB(A)		Le 19-22 dB(A)		CNEL 72.6 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	230.0	-58.2	2.9	-5.5	0.0		0.0	0.0	32.6	0.0	6.7	39.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	258.8	-59.3	4.4	-7.3	-2.2	-0.34	0.0	0.0	44.4	-10.8	0.0	33.6
Air Compressor C 1	CNEL	110.0	5	98.9	-50.9	2.9	-15.2	-0.3		0.0	1.6	48.0	0.0	6.7	54.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		242.3	-58.7	4.3	-23.4	-2.3		0.0	0.0	20.3	0.0	6.7	26.9
Asphalt Production	CNEL	113.8	1206	297.0	-60.4	3.8	-20.9	-1.4		0.0	0.0	35.0	0.0	6.7	41.6
BFW Pumps P-073A&B	CNEL	95.8		238.5	-58.5	4.5	-22.6	-1.3		0.0	0.0	17.9	0.0	6.7	24.5
Blower F 401	CNEL	113.0		201.0	-57.1	3.7	-4.3	-0.3	-1.02	0.0	0.0	54.0	0.0	6.7	60.7
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	416.1	-63.4	4.9	-20.4	-0.9		0.0	0.2	19.0	0.0	6.7	25.7
Brine Transfer P-085	CNEL	96.2		235.5	-58.4	4.7	-14.9	-0.9		0.0	0.0	26.6	0.0	6.7	33.3
Burner H301 North	CNEL	96.1	10	123.8	-52.8	2.8	0.0	-1.2		0.0	0.3	48.2	0.0	6.7	54.9
Burner H301 South	CNEL	95.9	10	125.9	-53.0	2.9	-15.0	-0.6		0.0	1.3	34.5	0.0	6.7	41.2
Burner H302 North	CNEL	97.0	13	133.6	-53.5	2.9	-3.2	-1.0	0.00	0.0	0.1	45.3	0.0	6.7	51.9
Burner H302 South	CNEL	97.0	13	135.5	-53.6	2.9	-15.5	-0.6	-0.05	0.0	9.8	42.8	0.0	6.7	49.5
Burner H303 North	CNEL	97.0	13	161.5	-55.2	3.2	-12.2	-0.7	-0.26	0.0	0.9	35.8	0.0	6.7	42.4
Burner H303 South	CNEL	97.0	13	164.3	-55.3	3.3	-22.0	-1.0	-0.38	0.0	5.6	30.2	0.0	6.7	36.9
Burner H304 North	CNEL	97.0	13	153.9	-54.7	3.1	-10.0	-0.8	-0.27	0.0	0.2	37.4	0.0	6.7	44.1
Burner H304 South	CNEL	97.0	13	156.7	-54.9	3.1	-20.3	-0.8	-0.37	0.0	5.6	32.4	0.0	6.7	39.1
Burner H305 North	CNEL	96.3	11	146.6	-54.3	3.0	-2.8	-1.2	-0.33	0.0	0.2	43.8	0.0	6.7	50.5
Burner H305 South	CNEL	96.3	11	149.2	-54.5	3.0	-18.8	-0.7	-0.51	0.0	3.3	31.2	0.0	6.7	37.9
Burner H306 North	CNEL	95.0	8	138.8	-53.8	2.9	-0.6	-1.3	-0.20	0.0	0.1	45.1	0.0	6.7	51.8
Burner H306 South	CNEL	95.1	8	140.9	-54.0	2.9	-14.9	-0.6	-0.31	0.0	1.7	32.8	0.0	6.7	39.5
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	170.0	-55.6	3.2	-14.6	-0.4	-0.08	4.0	0.0	41.3	0.0	6.7	48.0
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	163.8	-55.3	3.2	-8.3	-0.6	-0.23	0.0	0.1	39.5	0.0	6.7	46.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	166.4	-55.4	3.2	-7.2	-0.4	-0.33	1.0	0.1	47.5	0.0	6.7	54.1
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	176.6	-55.9	3.3	-18.8	-0.4	-0.18	-7.8	0.0	30.8	0.0	6.7	37.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	167.0	-55.4	3.2	-17.7	-0.4	-0.17	-7.8	0.0	25.5	0.0	6.7	32.1
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	176.5	-55.9	3.2	-15.4	-0.5	-0.68	-6.8	0.0	24.4	0.0	6.7	31.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	152.5	-54.7	3.1	-7.5	-0.6	-0.64	-0.5	0.0	37.1	0.0	6.7	43.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.7	-54.7	3.1	-9.4	-0.7	-0.90	-0.7	0.0	34.5	0.0	6.7	41.2
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	156.3	-54.9	2.9	-21.1	-0.7		-3.3	0.0	23.5	0.0	6.7	30.2
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	154.0	-54.7	3.0	-0.6	-1.3		2.2	0.0	49.3	0.0	6.7	55.9
Cooling Tower M 512	CNEL	95.7		159.0	-55.0	3.5	-20.5	-0.6	-0.89	0.0	0.0	22.2	0.0	6.7	28.9
Cooling Tower M 513	CNEL	95.7		159.2	-55.0	3.4	-20.6	-0.6	-0.89	0.0	0.0	22.0	0.0	6.7	28.7
Cooling Tower M 514	CNEL	95.7		159.1	-55.0	3.5	-21.1	-0.7		0.0	0.0	22.4	0.0	6.7	29.1
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	386.2	-62.7	5.0	-18.6	-1.5		0.0	0.1	35.9	0.0	6.7	42.6
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	386.2	-62.7	4.5	-18.0	-1.4		0.0	0.1	36.2	0.0	6.7	42.8
CT Y-600-CT Y-600 North	CNEL	96.4	51	363.1	-62.2	4.2	-20.6	-1.0		0.0	0.0	19.8	0.0	6.7	26.4
CT Y-600-CT Y-600 South	CNEL	96.4	52	376.4	-62.5	4.3	-22.4	-1.3		0.0	0.0	17.4	0.0	6.7	24.1
Deaerator Skid P-058A&B	CNEL	96.2		227.9	-58.1	2.9	-19.6	-0.9		0.0	0.0	20.5	0.0	6.7	27.2
Exhaust Stack	CNEL	100.6		222.6	-57.9	2.8	-5.2	-0.3		0.0	0.0	40.0	0.0	6.7	46.6
F.G. After Cooler XF-083ABC	CNEL	100.2		246.8	-58.8	3.8	-18.6	-0.4		0.0	0.0	26.2	0.0	6.7	32.8
Fan Y-600	CNEL	107.5		369.4	-62.3	3.0	-19.8	-0.7		0.0	0.0	27.6	0.0	6.7	34.3
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	250.5	-59.0	3.0	-11.1	-0.1		0.0	0.0	15.3	0.0	6.7	22.0
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	253.1	-59.1	4.0	-16.3	-0.1		0.0	0.0	9.2	0.0	6.7	15.9
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	255.6	-59.1	4.0	-22.9	-1.4		0.0	0.0	-5.3	0.0	6.7	1.3
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	247.3	-58.9	3.9	-12.6	-0.1		0.0	0.0	16.1	0.0	6.7	22.7
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	253.7	-59.1	3.9	-17.4	-0.1		0.0	0.0	2.4	0.0	6.7	9.0
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	247.9	-58.9	3.9	-12.8	-0.1		0.0	0.0	12.9	0.0	6.7	19.6
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	249.6	-58.9	3.9	-21.4	-1.0		0.0	0.0	-3.3	0.0	6.7	3.4
Fin Fan XF 616 - Above	CNEL	96.0	75	385.2	-62.7	2.8	-11.1	-0.6		-10.6	0.0	13.8	0.0	6.7	20.5
Fin Fan XF 616 - Below	CNEL	108.0	75	385.2	-62.7	2.8	-11.9	-0.8		-8.5	0.0	26.9	0.0	6.7	33.6
Fin Fan XF 617 - Above	CNEL	93.0	21	389.6	-62.8	2.8	-10.7	-0.6		-10.7	0.0	11.0	0.0	6.7	17.7
Fin Fan XF 617 - Below	CNEL	104.0	21	389.6	-62.8	2.8	-12.0	-0.7		-8.5	0.0	22.8	0.0	6.7	29.5
Heater # 5-Heater	CNEL	91.1	13	414.8	-63.3	4.9	-21.9	-1.1		0.0	2.0	14.6	0.0	6.7	21.3
Heater # 5-Heater	CNEL	91.1	13	412.0	-63.3	4.9	-21.9	-1.1		0.0	0.3	13.0	0.0	6.7	19.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	409.2	-63.2	4.9	-22.1	-1.1		0.0	0.0	12.5	0.0	6.7	19.1
Heater H 601	CNEL	89.1	13	407.9	-63.2	4.8	-18.0	-0.7		0.0	0.4	12.5	0.0	6.7	19.2
Hydro Heater H-402	CNEL	98.1		161.6	-55.2	3.5	-7.7	-0.3		0.0	0.0	38.4	0.0	6.7	45.1
ID Fan	CNEL	110.3		156.2	-54.9	2.8	-13.8	-0.3		0.0	1.4	45.5	0.0	6.7	52.1
ID Fan 200 HP Motor	CNEL	104.4		157.4	-54.9	3.3	-21.3	-0.9	-0.02	0.0	4.0	34.5	0.0	6.7	41.2
Incinirator Compressor & Motor	CNEL	92.5		482.5	-64.7	5.2	-15.9	-0.8		0.0	0.6	16.9	0.0	6.7	23.5
Incinirator Fin Fan	CNEL	94.8		482.1	-64.7	5.2	-15.0	-0.6		0.0	0.3	20.1	0.0	6.7	26.7
Lub Oil Cooler XF-061	CNEL	100.5		226.6	-58.1	4.1	-19.4	-0.4		0.0	0.1	26.7	0.0	6.7	33.4
Misc pumps motors	CNEL	100.2	332	184.9	-56.3	3.5	-22.2	-1.4		0.0	0.8	24.6	0.0	6.7	31.3
Motor & Pump P 56A/B	CNEL	93.7		147.8	-54.4	3.3	-5.6	-1.1	-0.52	0.0	0.0	35.5	0.0	6.7	42.1
Motor & Pump P 120/121	CNEL	96.2	2	110.0	-51.8	2.9	0.0	-0.6		0.0	1.8	48.5	0.0	6.7	55.1
Motor & Pump P 211/212	CNEL	93.7		177.4	-56.0	3.9	-5.5	-1.1	-1.23	0.0	0.3	34.1	0.0	6.7	40.8
Motor & Pump P 215/214	CNEL	94.6		172.7	-55.7	3.9	-11.8	-0.9	-0.31	0.0	0.8	30.5	0.0	6.7	37.2
Motor & Pump P 216	CNEL	98.3		179.3	-56.1	3.8	-9.2	-1.0	-1.01	0.0	0.9	35.7	0.0	6.7	42.4
Motor & Pump P 217/218	CNEL	93.7		175.7	-55.9	4.3	-10.8	-0.9	-0.35	0.0	0.5	30.5	0.0	6.7	37.1
Motor & Pump P 300	CNEL	97.1	2	114.0	-52.1	2.9	-5.0	-0.5		0.0	1.0	43.4	0.0	6.7	50.0
Motor & Pump P 301	CNEL	102.1	2	115.4	-52.2	2.9	-8.0	-0.4		0.0	1.4	45.7	0.0	6.7	52.4
Motor & Pump P 302	CNEL	97.1	2	112.5	-52.0	2.9	-6.2	-0.4		0.0	2.5	43.8	0.0	6.7	50.5
Motor & Pump P 303	CNEL	97.1	2	111.3	-51.9	2.9	-12.1	-0.4		0.0	8.7	44.3	0.0	6.7	51.0
Motor & Pump P 305	CNEL	97.5	2	110.0	-51.8	2.9	-13.7	-0.4		0.0	11.4	46.0	0.0	6.7	52.6
Motor & Pump P 306	CNEL	112.6	4	102.5	-51.2	2.9	-15.1	-0.4		0.0	5.6	54.3	0.0	6.7	61.0
Motor & Pump P 307	CNEL	102.1	2	119.6	-52.5	3.0	-7.8	-0.4		0.0	0.6	45.0	0.0	6.7	51.6
Motor & Pump P 309	CNEL	97.5	2	108.8	-51.7	2.9	-16.2	-0.4		0.0	13.6	45.7	0.0	6.7	52.4
Motor & Pump P 312	CNEL	101.5	2	139.0	-53.9	3.6	-14.9	-0.4		0.0	0.6	36.5	0.0	6.7	43.2
Motor & Pump P 313	CNEL	101.5	2	140.7	-54.0	3.7	-14.7	-0.4		0.0	0.6	36.7	0.0	6.7	43.3
Motor & Pump P 315	CNEL	102.9	2	146.6	-54.3	3.6	-13.2	-0.4		0.0	0.4	38.9	0.0	6.7	45.6
Motor & Pump P 316	CNEL	102.9	2	148.5	-54.4	3.6	-12.6	-0.5		0.0	0.3	39.3	0.0	6.7	46.0
Motor & Pump P 317	CNEL	102.9	2	150.2	-54.5	3.5	-12.6	-0.5	0.00	0.0	0.2	39.0	0.0	6.7	45.7
Motor & Pump P 318	CNEL	100.2	1	144.6	-54.2	3.8	-13.8	-0.4		0.0	0.5	36.1	0.0	6.7	42.8
Motor & Pump P 319	CNEL	100.2	1	143.3	-54.1	3.8	-14.2	-0.4		0.0	0.6	35.9	0.0	6.7	42.5
Motor & Pump P 327	CNEL	111.2	3	96.6	-50.7	2.9	-17.3	-0.6		0.0	3.5	49.1	0.0	6.7	55.7
Motor & Pump P 328	CNEL	109.9	5	107.2	-51.6	2.9	-15.4	-0.4		0.0	11.6	57.0	0.0	6.7	63.7
Motor & Pump P 329	CNEL	110.2	5	104.8	-51.4	2.9	-13.8	-0.4		0.0	7.9	55.4	0.0	6.7	62.1
Motor & Pump P 451	CNEL	93.7		168.3	-55.5	3.7	-14.9	-0.7		0.0	0.0	26.2	0.0	6.7	32.9
Motor & Pump P 453	CNEL	93.7		179.4	-56.1	3.8	-11.3	-0.9		0.0	0.0	29.2	0.0	6.7	35.9
Motor & Pump P 454	CNEL	93.7		168.1	-55.5	3.7	-8.1	-1.0		0.0	0.0	32.7	0.0	6.7	39.4
Motor & Pump P 457	CNEL	93.7		180.9	-56.1	3.8	-8.1	-1.1		0.0	0.0	32.2	0.0	6.7	38.8
Motor & Pump P 458	CNEL	93.7		168.1	-55.5	3.7	-15.7	-0.8		0.0	0.0	25.3	0.0	6.7	32.0
Motor & Pump P 459	CNEL	93.7		167.1	-55.5	3.6	-8.3	-1.0		0.0	0.0	32.6	0.0	6.7	39.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		137.8	-53.8	3.3	-4.0	-0.9	-0.01	0.0	0.0	40.8	0.0	6.7	47.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		136.1	-53.7	3.3	-4.0	-0.9		0.0	0.0	40.9	0.0	6.7	47.6
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		102.1	-51.2	2.9	0.0	-1.1	-0.07	0.0	0.0	46.0	0.0	6.7	52.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		101.0	-51.1	2.9	0.0	-1.0	-0.05	0.0	0.0	46.2	0.0	6.7	52.8
Motor & Pump P 1601 A	CNEL	96.3	2	137.5	-53.8	2.9	-1.0	-1.6		0.0	2.0	44.9	0.0	6.7	51.5
Motor & Pump P 1601 B	CNEL	96.3	2	137.6	-53.8	2.9	-8.5	-0.8		0.0	5.8	42.0	0.0	6.7	48.6
Motor & Pump P 1602 A	CNEL	96.3	2	138.0	-53.8	2.9	-5.2	-1.1		0.0	3.9	42.9	0.0	6.7	49.6
Motor & Pump P 1602 B	CNEL	96.5	2	138.2	-53.8	2.9	-1.0	-1.6		0.0	0.0	43.0	0.0	6.7	49.7
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	136.7	-53.7	3.4	-3.3	-1.2	-0.80	0.0	0.3	41.3	0.0	6.7	48.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	131.8	-53.4	3.3	-2.6	-1.2	-0.69	0.0	0.3	42.2	0.0	6.7	48.9
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	129.3	-53.2	3.2	-2.5	-1.2	-0.64	0.0	0.3	42.6	0.0	6.7	49.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	134.6	-53.6	3.2	-4.6	-0.9	-0.08	0.0	0.0	40.8	0.0	6.7	47.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	132.8	-53.5	3.2	-4.9	-0.9	-0.06	0.0	0.0	40.6	0.0	6.7	47.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	124.2	-52.9	3.2	-0.3	-1.3	-0.52	0.0	0.0	44.5	0.0	6.7	51.1
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	124.1	-52.9	3.2	-5.5	-0.8	-0.55	0.0	0.0	39.8	0.0	6.7	46.4
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	124.3	-52.9	3.1	-7.5	-0.8	-0.56	0.0	0.9	38.5	0.0	6.7	45.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	124.2	-52.9	3.2	-7.7	-0.7	-0.56	0.0	2.3	39.9	0.0	6.7	46.6
P602 100 HP	CNEL	94.1		387.6	-62.8	4.9	-19.7	-1.1		0.0	0.0	15.4	0.0	6.7	22.0
P603 60 HP	CNEL	95.0		384.8	-62.7	5.0	-22.4	-1.9		0.0	0.0	13.1	0.0	6.7	19.7
P605 40 HP	CNEL	95.0		385.5	-62.7	5.0	-22.4	-1.9		0.0	0.0	13.1	0.0	6.7	19.8
P607 15 HP	CNEL	90.5		390.5	-62.8	5.0	-21.6	-1.3		0.0	0.0	9.7	0.0	6.7	16.4
P608 15 HP	CNEL	90.5		391.9	-62.9	5.0	-19.7	-1.2		0.0	0.0	11.7	0.0	6.7	18.3
P611 15 HP	CNEL	90.5		389.0	-62.8	5.0	-21.9	-1.3		0.0	0.0	9.5	0.0	6.7	16.2
P614/615 20 HP	CNEL	93.0		380.1	-62.6	4.6	-21.7	-1.3		0.0	0.0	12.1	0.0	6.7	18.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	249.2	-58.9	4.5	-6.3	-0.6	-0.55	0.0	0.0	72.9	-38.6	0.0	34.3
Scanner Blower C-084A/B	CNEL	95.5		231.1	-58.3	4.0	-23.8	-1.0		0.0	0.0	16.5	0.0	6.7	23.2
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	221.6	-57.9	3.9	-10.4	-0.1		0.0	0.0	7.1	0.0	6.7	13.7
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	221.7	-57.9	4.0	-8.4	-0.2		0.0	0.0	7.3	0.0	6.7	14.0
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	223.1	-58.0	3.2	-9.3	-0.2		0.0	0.0	5.4	0.0	6.7	12.0
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	224.8	-58.0	4.0	-14.6	-0.1		0.0	0.0	2.7	0.0	6.7	9.4
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	223.7	-58.0	4.0	-11.4	-0.2		0.0	0.0	6.3	0.0	6.7	12.9
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	230.4	-58.2	3.8	-20.0	-0.2		0.0	0.0	5.5	0.0	6.7	12.2
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	228.2	-58.2	3.8	-20.7	-0.2		0.0	0.0	4.0	0.0	6.7	10.7
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	226.5	-58.1	3.8	-16.4	-0.2		0.0	0.0	19.2	0.0	6.7	25.9
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	228.8	-58.2	3.8	-17.1	-0.2		0.0	0.0	10.1	0.0	6.7	16.8
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	228.0	-58.2	2.9	-14.1	-0.2		0.0	0.0	15.9	0.0	6.7	22.5
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	229.4	-58.2	3.8	-19.8	-0.2		0.0	0.0	15.7	0.0	6.7	22.4
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	230.2	-58.2	3.8	-20.0	-0.2		0.0	0.0	6.8	0.0	6.7	13.5
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	233.7	-58.4	4.1	-22.9	-1.1		0.0	0.0	21.0	0.0	6.7	27.7
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	230.1	-58.2	4.1	-20.8	-0.8		0.0	0.0	29.0	0.0	6.7	35.6
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	231.6	-58.3	3.3	-20.2	-0.7		0.0	0.0	25.5	0.0	6.7	32.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	233.2	-58.3	4.1	-22.9	-1.1		0.0	0.0	26.4	0.0	6.7	33.1
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	228.5	-58.2	4.0	-20.7	-0.8		0.0	1.1	19.0	0.0	6.7	25.7
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	230.8	-58.3	4.1	-23.3	-1.2		0.0	0.0	15.0	0.0	6.7	21.7
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	225.0	-58.0	2.8	-13.1	-0.2		0.0	0.0	9.6	0.0	6.7	16.3
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	224.3	-58.0	3.8	-14.8	-0.1		0.0	0.0	2.8	0.0	6.7	9.4
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	222.2	-57.9	3.8	-15.0	-0.2		0.0	0.0	9.7	0.0	6.7	16.3
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	221.6	-57.9	3.8	-13.1	-0.2		0.0	0.0	6.0	0.0	6.7	12.7
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	228.4	-58.2	3.8	-19.2	-0.2		0.0	0.0	0.1	0.0	6.7	6.7
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	227.8	-58.1	3.8	-18.3	-0.2		0.0	0.0	6.2	0.0	6.7	12.9
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	226.0	-58.1	3.8	-16.3	-0.2		0.0	0.0	2.6	0.0	6.7	9.3
Tank Farm Pump 1	CNEL	99.0	3	310.9	-60.8	4.7	-23.3	-1.7		0.0	3.3	21.2	0.0	6.7	27.9
Tank Farm Pump 2	CNEL	99.0	3	329.3	-61.3	4.8	-22.1	-1.6		0.0	0.0	18.7	0.0	6.7	25.4
Tank Farm Pump 3	CNEL	99.0	3	334.6	-61.5	4.8	-21.5	-1.6		0.0	0.4	19.6	0.0	6.7	26.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	271.4	-59.7	3.5	-5.8	-2.6	-0.25	0.0	0.4	48.0	-16.8	0.0	31.2
Vaporizer Blower 1	CNEL	88.7		225.1	-58.0	4.4	-21.9	-0.8		0.0	2.3	14.7	0.0	6.7	21.4
Vaporizer Blower 2	CNEL	88.7		224.2	-58.0	4.4	-21.9	-0.8		0.0	2.3	14.7	0.0	6.7	21.4
Vaporizer Inlet Silencer	CNEL	73.7		225.0	-58.0	3.5	-17.3	-0.3		0.0	2.2	3.8	0.0	6.7	10.5
Vaporizer Motor 1	CNEL	83.6		224.9	-58.0	4.4	-22.6	-1.1		0.0	2.4	8.8	0.0	6.7	15.4
Vaporizer Motor 2	CNEL	83.6		224.0	-58.0	4.4	-22.7	-1.1		0.0	2.4	8.8	0.0	6.7	15.4
Water Treatment Pumps P-056A&B	CNEL	93.0		234.2	-58.4	4.6	-20.0	-1.1		0.0	0.0	18.2	0.0	6.7	24.9
XF-1502 Splitter Area 1	CNEL	104.5		127.8	-53.1	2.9	-0.1	-1.0	-0.59	-4.5	0.0	48.1	0.0	6.7	54.7
XF-1502 Splitter Area 2	CNEL	104.5		131.6	-53.4	2.9	-0.1	-1.0	-0.65	-4.5	0.0	47.7	0.0	6.7	54.4
XF-1504 Splitter Area 1	CNEL	104.5		127.9	-53.1	2.9	-3.6	-0.8	0.00	-3.9	0.0	45.8	0.0	6.7	52.5
XF-1504 Splitter Area 2	CNEL	104.5		131.6	-53.4	2.9	-3.4	-0.8		-4.0	0.0	45.8	0.0	6.7	52.5
XF 304, XF 321	CNEL	110.5	56	119.6	-52.6	2.8	-6.9	-0.3	-0.10	-2.4	0.0	51.1	0.0	6.7	57.8
XF 313, XF 314	CNEL	113.0	18	96.0	-50.6	2.8	-10.0	-0.3		-3.1	0.3	52.1	0.0	6.7	58.8
XF 335-1, XF 335-2	CNEL	113.4	54	109.6	-51.8	2.8	-8.5	-0.3	-0.02	-2.4	0.4	53.6	0.0	6.7	60.2
XF 503	CNEL	113.0	21	157.7	-54.9	2.8	-0.9	-2.2	-0.70	-3.9	0.0	53.3	0.0	6.7	60.0
XF - 1601	CNEL	96.6		139.4	-53.9	2.8	-4.4	-0.3		-1.6	0.0	39.2	0.0	6.7	45.8
XF - 1602	CNEL	96.6		140.3	-53.9	2.8	0.0	-0.5		-2.6	0.0	42.4	0.0	6.7	49.1
XF Module 1510	CNEL	108.3		135.5	-53.6	2.9	-0.1	-1.1	-0.75	-4.5	0.0	51.1	0.0	6.7	57.8
XF Module 1519	CNEL	109.0		130.2	-53.3	2.9	-0.1	-1.0	-0.64	-4.5	0.0	52.4	0.0	6.7	59.0
xxxx xxxx xxxx xxxx	CNEL		606								6.8				31.3
xxxx xxxx xxxx xxxx	CNEL		606								6.8				31.6
xxxx xxxx xxxx xxxx	CNEL		917								5.8				22.1
xxxx xxxx xxxx xxxx	CNEL		917								5.1				22.5
xxxx xxxx xxxx xxxx	CNEL		608								4.3				40.9
xxxx xxxx xxxx xxxx	CNEL		608								4.1				40.6
xxxx xxxx xxxx xxxx	CNEL		1172								7.7				30.0
xxxx xxxx xxxx xxxx	CNEL		520								3.5				33.2
xxxx xxxx xxxx xxxx	CNEL		572								19.4				37.5

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	Ls dB(A)	dLw dB	ZR dB	Lr dB(A)
Receiver MH-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 64.0 dB(A)			Ld 7-19 dB(A)		Leq,N 64.0 dB(A)		Le 19-22 dB(A)		CNEL 70.7 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	222.9	-58.0	2.9	-7.1	0.0		0.0	0.0	31.3	0.0	6.7	38.0
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	262.8	-59.4	4.4	-10.9	-1.7	-0.38	0.0	0.1	41.1	-10.8	0.0	30.3
Air Compressor C 1	CNEL	110.0	5	112.8	-52.0	3.0	-14.9	-0.3		0.0	1.3	47.0	0.0	6.7	53.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		236.4	-58.5	4.3	-24.1	-2.6		0.0	0.0	19.5	0.0	6.7	26.1
Asphalt Production	CNEL	113.8	1206	287.1	-60.2	3.8	-20.7	-1.4		0.0	0.1	35.4	0.0	6.7	42.1
BFW Pumps P-073A&B	CNEL	95.8		233.5	-58.4	4.5	-23.6	-1.4		0.0	0.0	16.8	0.0	6.7	23.5
Blower F 401	CNEL	113.0		207.2	-57.3	3.7	-9.1	-0.3	-0.67	0.0	0.0	49.4	0.0	6.7	56.0
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	404.5	-63.1	4.9	-20.7	-0.9		0.0	0.6	19.3	0.0	6.7	25.9
Brine Transfer P-085	CNEL	96.2		231.8	-58.3	4.7	-22.7	-1.3		0.0	0.0	18.7	0.0	6.7	25.3
Burner H301 North	CNEL	96.1	10	143.9	-54.2	2.8	0.0	-1.3		0.0	0.1	46.6	0.0	6.7	53.2
Burner H301 South	CNEL	95.9	10	145.8	-54.3	2.9	-16.2	-0.6		0.0	0.9	31.6	0.0	6.7	38.3
Burner H302 North	CNEL	97.0	13	152.6	-54.7	3.0	-2.7	-1.4	-0.04	0.0	0.1	44.3	0.0	6.7	51.0
Burner H302 South	CNEL	97.0	13	154.2	-54.8	3.1	-14.9	-0.7	-0.14	0.0	7.6	40.2	0.0	6.7	46.9
Burner H303 North	CNEL	97.0	13	177.7	-56.0	3.5	-13.4	-0.7	-0.24	0.0	1.0	34.1	0.0	6.7	40.8
Burner H303 South	CNEL	97.0	13	180.3	-56.1	3.5	-20.7	-0.9	-0.13	0.0	5.8	31.4	0.0	6.7	38.1
Burner H304 North	CNEL	97.0	13	170.8	-55.6	3.4	-15.6	-0.7	-0.43	0.0	0.8	31.8	0.0	6.7	38.5
Burner H304 South	CNEL	97.0	13	173.3	-55.8	3.4	-21.8	-1.0	-0.18	0.0	7.9	32.6	0.0	6.7	39.3
Burner H305 North	CNEL	96.3	11	164.1	-55.3	3.2	-7.3	-0.9	-0.15	0.0	0.3	39.3	0.0	6.7	46.0
Burner H305 South	CNEL	96.3	11	166.4	-55.4	3.3	-20.6	-0.9	-0.53	0.0	2.5	27.6	0.0	6.7	34.3
Burner H306 North	CNEL	95.0	8	156.9	-54.9	3.1	0.0	-1.4	-0.33	0.0	0.2	44.7	0.0	6.7	51.4
Burner H306 South	CNEL	95.1	8	158.8	-55.0	3.2	-15.5	-0.7	-0.45	0.0	2.8	32.4	0.0	6.7	39.0
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	181.1	-56.2	3.3	-12.1	-0.5	-0.52	3.4	0.0	42.2	0.0	6.7	48.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	174.6	-55.8	3.2	-5.5	-1.1	-0.56	0.0	0.3	41.1	0.0	6.7	47.8
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	178.6	-56.0	3.2	-6.3	-0.6	-0.37	1.5	0.1	48.2	0.0	6.7	54.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	188.4	-56.5	3.3	-18.1	-0.4	-0.36	-7.8	0.1	30.8	0.0	6.7	37.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	178.0	-56.0	3.2	-15.5	-0.4	-0.55	-7.8	0.0	26.8	0.0	6.7	33.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	189.6	-56.5	3.3	-17.4	-0.5	-0.47	-7.3	0.1	21.5	0.0	6.7	28.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	154.0	-54.7	3.1	-5.3	-0.9		3.2	0.0	43.3	0.0	6.7	49.9
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	156.1	-54.9	3.1	-8.2	-0.6	-0.93	-3.5	0.0	32.9	0.0	6.7	39.6
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	154.2	-54.8	2.9	-22.0	-0.7		-0.4	0.1	25.8	0.0	6.7	32.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	154.5	-54.8	3.1	-13.6	-0.4		-1.3	0.0	33.6	0.0	6.7	40.3
Cooling Tower M 512	CNEL	95.7		161.4	-55.2	3.6	-19.7	-0.7		0.0	0.0	23.7	0.0	6.7	30.4
Cooling Tower M 513	CNEL	95.7		161.8	-55.2	3.5	-20.1	-0.7		0.0	0.0	23.3	0.0	6.7	30.0
Cooling Tower M 514	CNEL	95.7		161.3	-55.1	3.5	-18.1	-0.6	-0.19	0.0	0.2	25.4	0.0	6.7	32.1
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	373.0	-62.4	5.0	-18.8	-1.4		0.0	0.1	36.1	0.0	6.7	42.8
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	372.9	-62.4	4.5	-16.8	-1.3		0.0	0.1	37.8	0.0	6.7	44.5
CT Y-600-CT Y-600 North	CNEL	96.4	51	353.0	-61.9	4.1	-18.4	-0.9		0.0	0.0	22.3	0.0	6.7	29.0
CT Y-600-CT Y-600 South	CNEL	96.4	52	366.6	-62.3	4.2	-22.4	-1.3		0.0	0.0	17.7	0.0	6.7	24.3
Deaerator Skid P-058A&B	CNEL	96.2		222.4	-57.9	2.9	-21.8	-1.1		0.0	0.0	18.3	0.0	6.7	25.0
Exhaust Stack	CNEL	100.6		219.2	-57.8	2.8	-13.7	-0.3		0.0	0.0	31.7	0.0	6.7	38.3
F.G. After Cooler XF-083ABC	CNEL	100.2		239.5	-58.6	3.7	-20.4	-0.4		0.0	0.0	24.5	0.0	6.7	31.2
Fan Y-600	CNEL	107.5		359.5	-62.1	2.9	-20.2	-0.7		0.0	0.0	27.4	0.0	6.7	34.0
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	242.4	-58.7	2.9	-14.6	-0.1		0.0	0.0	12.0	0.0	6.7	18.6
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	244.5	-58.8	3.9	-17.8	-0.1		0.0	0.0	8.0	0.0	6.7	14.6
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	247.0	-58.8	3.9	-23.4	-1.6		0.0	0.0	-5.8	0.0	6.7	0.9
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	239.1	-58.6	3.8	-15.5	-0.1		0.0	0.0	13.4	0.0	6.7	20.0
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	245.7	-58.8	3.9	-18.5	-0.1		0.0	0.0	1.4	0.0	6.7	8.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	240.3	-58.6	3.8	-15.1	-0.1		0.0	0.0	10.8	0.0	6.7	17.5
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	242.1	-58.7	3.9	-22.1	-1.1		0.0	0.0	-3.9	0.0	6.7	2.8
Fin Fan XF 616 - Above	CNEL	96.0	75	374.0	-62.4	2.8	-9.4	-0.6		-10.8	0.0	15.6	0.0	6.7	22.2
Fin Fan XF 616 - Below	CNEL	108.0	75	374.0	-62.4	2.8	-10.8	-0.7		-8.4	0.0	28.4	0.0	6.7	35.1
Fin Fan XF 617 - Above	CNEL	93.0	21	378.0	-62.5	2.8	-11.5	-0.5		-10.9	0.0	10.4	0.0	6.7	17.0
Fin Fan XF 617 - Below	CNEL	104.0	21	378.0	-62.5	2.8	-12.9	-0.7		-8.4	0.0	22.3	0.0	6.7	29.0
Heater # 5-Heater	CNEL	91.1	13	402.9	-63.1	4.9	-21.0	-1.0		0.0	2.0	15.9	0.0	6.7	22.6
Heater # 5-Heater	CNEL	91.1	13	400.4	-63.0	4.9	-22.2	-1.1		0.0	0.9	13.5	0.0	6.7	20.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	397.8	-63.0	4.9	-22.4	-1.1		0.0	0.3	12.7	0.0	6.7	19.4
Heater H 601	CNEL	89.1	13	396.8	-63.0	4.7	-12.6	-0.5		0.0	0.1	17.8	0.0	6.7	24.4
Hydro Heater H-402	CNEL	98.1		167.8	-55.5	3.5	-10.5	-0.3		0.0	0.9	36.2	0.0	6.7	42.9
ID Fan	CNEL	110.3		174.8	-55.8	2.8	-13.9	-0.3	-0.17	0.0	1.7	44.5	0.0	6.7	51.2
ID Fan 200 HP Motor	CNEL	104.4		176.0	-55.9	3.5	-22.7	-1.2		0.0	5.6	33.7	0.0	6.7	40.3
Incinirator Compressor & Motor	CNEL	92.5		469.0	-64.4	5.2	-16.0	-0.8		0.0	0.3	16.8	0.0	6.7	23.5
Incinirator Fin Fan	CNEL	94.8		468.6	-64.4	5.1	-14.9	-0.6		0.0	0.2	20.3	0.0	6.7	26.9
Lub Oil Cooler XF-061	CNEL	100.5		220.5	-57.9	4.0	-21.2	-0.4		0.0	0.1	25.1	0.0	6.7	31.7
Misc pumps motors	CNEL	100.2	332	170.6	-55.6	3.4	-21.4	-1.2		0.0	2.6	27.9	0.0	6.7	34.6
Motor & Pump P 56A/B	CNEL	93.7		155.7	-54.8	3.5	-13.4	-0.6	-0.35	0.0	3.7	31.6	0.0	6.7	38.3
Motor & Pump P 120/121	CNEL	96.2	2	122.7	-52.8	3.0	0.0	-0.7		0.0	0.4	46.2	0.0	6.7	52.8
Motor & Pump P 211/212	CNEL	93.7		186.5	-56.4	4.0	-5.2	-1.4	-1.08	0.0	1.2	34.8	0.0	6.7	41.5
Motor & Pump P 215/214	CNEL	94.6		182.1	-56.2	4.0	-11.3	-0.9	-0.98	0.0	2.9	32.1	0.0	6.7	38.8
Motor & Pump P 216	CNEL	98.3		189.1	-56.5	3.9	-9.0	-1.1	-1.07	0.0	0.4	34.9	0.0	6.7	41.6
Motor & Pump P 217/218	CNEL	93.7		184.9	-56.3	4.3	-5.8	-1.3	-1.04	0.0	0.9	34.5	0.0	6.7	41.2
Motor & Pump P 300	CNEL	97.1	2	128.4	-53.2	3.2	-8.9	-0.4		0.0	7.9	45.7	0.0	6.7	52.3
Motor & Pump P 301	CNEL	102.1	2	129.7	-53.2	3.2	-8.8	-0.4		0.0	8.0	50.8	0.0	6.7	57.4
Motor & Pump P 302	CNEL	97.1	2	127.0	-53.1	3.2	-6.5	-0.5		0.0	6.0	46.1	0.0	6.7	52.8
Motor & Pump P 303	CNEL	97.1	2	126.0	-53.0	3.1	-8.1	-0.5		0.0	7.1	45.7	0.0	6.7	52.4
Motor & Pump P 305	CNEL	97.5	2	124.9	-52.9	3.0	-10.6	-0.4		0.0	7.7	44.3	0.0	6.7	50.9
Motor & Pump P 306	CNEL	112.6	4	118.2	-52.4	2.8	-17.2	-0.5		0.0	1.6	46.9	0.0	6.7	53.6
Motor & Pump P 307	CNEL	102.1	2	133.4	-53.5	3.3	-6.8	-0.5		0.0	4.4	49.1	0.0	6.7	55.7
Motor & Pump P 309	CNEL	97.5	2	123.7	-52.8	3.0	-15.2	-0.4		0.0	6.5	38.6	0.0	6.7	45.2
Motor & Pump P 312	CNEL	101.5	2	151.2	-54.6	3.8	-14.3	-0.5	-0.10	0.0	0.0	35.9	0.0	6.7	42.6
Motor & Pump P 313	CNEL	101.5	2	152.7	-54.7	3.8	-13.5	-0.5	-0.13	0.0	0.0	36.6	0.0	6.7	43.2
Motor & Pump P 315	CNEL	102.9	2	158.2	-55.0	3.7	-12.9	-0.5	-0.24	0.0	0.1	38.0	0.0	6.7	44.7
Motor & Pump P 316	CNEL	102.9	2	159.9	-55.1	3.7	-14.4	-0.5	-0.29	0.0	0.0	36.4	0.0	6.7	43.1
Motor & Pump P 317	CNEL	102.9	2	161.6	-55.2	3.7	-14.3	-0.5	-0.33	0.0	0.0	36.3	0.0	6.7	42.9
Motor & Pump P 318	CNEL	100.2	1	156.3	-54.9	4.0	-11.1	-0.5	-0.23	0.0	0.0	37.5	0.0	6.7	44.2
Motor & Pump P 319	CNEL	100.2	1	155.0	-54.8	4.0	-11.8	-0.5	-0.20	0.0	0.0	36.9	0.0	6.7	43.6
Motor & Pump P 327	CNEL	111.2	3	113.2	-52.1	2.9	-17.1	-0.7		0.0	2.8	47.0	0.0	6.7	53.7
Motor & Pump P 328	CNEL	109.9	5	122.3	-52.7	2.9	-17.4	-0.4		0.0	7.1	49.4	0.0	6.7	56.0
Motor & Pump P 329	CNEL	110.2	5	120.2	-52.6	2.9	-18.6	-0.4		0.0	5.5	46.9	0.0	6.7	53.6
Motor & Pump P 451	CNEL	93.7		174.0	-55.8	3.7	-14.2	-0.9		0.0	4.0	30.6	0.0	6.7	37.2
Motor & Pump P 453	CNEL	93.7		184.5	-56.3	3.8	-0.4	-1.8	-0.47	0.0	0.0	38.5	0.0	6.7	45.2
Motor & Pump P 454	CNEL	93.7		174.1	-55.8	3.7	-16.1	-0.9		0.0	5.7	30.2	0.0	6.7	36.9
Motor & Pump P 457	CNEL	93.7		186.0	-56.4	3.9	-2.6	-1.5	-0.51	0.0	0.0	36.5	0.0	6.7	43.2
Motor & Pump P 458	CNEL	93.7		173.7	-55.8	3.7	-10.7	-1.0		0.0	2.3	32.2	0.0	6.7	38.9
Motor & Pump P 459	CNEL	93.7		173.1	-55.8	3.7	-17.2	-0.9		0.0	6.1	29.7	0.0	6.7	36.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		142.4	-54.1	3.4	-0.4	-1.5	-0.51	0.0	0.3	43.4	0.0	6.7	50.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		140.7	-54.0	3.4	-0.4	-1.5	-0.48	0.0	0.0	43.2	0.0	6.7	49.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		106.1	-51.5	2.9	-0.8	-1.3	-0.07	0.0	0.3	45.0	0.0	6.7	51.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		105.0	-51.4	2.9	-0.8	-1.3	-0.05	0.0	0.2	45.0	0.0	6.7	51.6
Motor & Pump P 1601 A	CNEL	96.3	2	137.3	-53.7	2.9	-18.0	-0.8		0.0	7.1	33.9	0.0	6.7	40.5
Motor & Pump P 1601 B	CNEL	96.3	2	137.3	-53.7	2.9	-19.9	-0.8		0.0	1.0	25.8	0.0	6.7	32.4
Motor & Pump P 1602 A	CNEL	96.3	2	137.4	-53.8	2.9	-18.3	-0.7		0.0	0.7	27.1	0.0	6.7	33.8
Motor & Pump P 1602 B	CNEL	96.5	2	137.4	-53.8	2.9	-18.9	-0.7		0.0	13.9	39.9	0.0	6.7	46.6
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	139.7	-53.9	3.4	-3.0	-1.7	-0.78	0.0	0.1	40.7	0.0	6.7	47.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	135.0	-53.6	3.3	-2.7	-1.3	-0.70	0.0	0.0	41.6	0.0	6.7	48.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	132.6	-53.4	3.3	-3.2	-1.1	-0.66	0.0	0.4	42.0	0.0	6.7	48.6
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	139.2	-53.9	3.3	-0.5	-1.5	-0.49	0.0	0.0	43.6	0.0	6.7	50.3
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	137.4	-53.8	3.3	-1.0	-1.4	-0.47	0.0	0.0	43.3	0.0	6.7	50.0
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	126.3	-53.0	3.2	-3.3	-1.6	-0.12	0.0	0.0	41.5	0.0	6.7	48.1
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	126.7	-53.0	3.2	-3.9	-1.4	-0.27	0.0	0.0	40.9	0.0	6.7	47.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	127.5	-53.1	3.2	-6.6	-0.8	-0.57	0.0	3.1	41.5	0.0	6.7	48.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	127.1	-53.1	3.2	-3.2	-1.7	-0.52	0.0	0.0	41.0	0.0	6.7	47.7
P602 100 HP	CNEL	94.1		376.7	-62.5	4.9	-19.6	-1.1		0.0	0.0	15.7	0.0	6.7	22.4
P603 60 HP	CNEL	95.0		374.2	-62.5	5.0	-19.3	-1.6		0.0	0.0	16.6	0.0	6.7	23.3
P605 40 HP	CNEL	95.0		374.8	-62.5	4.9	-19.8	-1.7		0.0	0.0	16.0	0.0	6.7	22.7
P607 15 HP	CNEL	90.5		379.4	-62.6	5.0	-16.6	-1.2		0.0	0.0	15.1	0.0	6.7	21.8
P608 15 HP	CNEL	90.5		380.6	-62.6	5.0	-16.8	-1.2		0.0	0.1	15.0	0.0	6.7	21.7
P611 15 HP	CNEL	90.5		378.0	-62.5	5.0	-18.0	-1.2		0.0	0.0	13.7	0.0	6.7	20.4
P614/615 20 HP	CNEL	93.0		369.0	-62.3	4.6	-16.2	-1.1		0.0	0.0	18.0	0.0	6.7	24.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	256.1	-59.2	4.5	-8.2	-0.5	-0.57	0.0	0.0	70.8	-38.6	0.0	32.2
Scanner Blower C-084A/B	CNEL	95.5		225.4	-58.1	4.0	-24.1	-1.0		0.0	0.0	16.3	0.0	6.7	23.0
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	217.8	-57.8	3.9	-16.3	-0.1		0.0	0.0	1.2	0.0	6.7	7.9
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	218.1	-57.8	3.9	-16.1	-0.1		0.0	0.0	-0.2	0.0	6.7	6.4
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	219.4	-57.8	3.2	-15.9	-0.1		0.0	0.0	-1.2	0.0	6.7	5.5
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	221.1	-57.9	3.9	-17.9	-0.1		0.0	0.0	-0.5	0.0	6.7	6.2
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	220.1	-57.8	3.9	-18.3	-0.2		0.0	0.0	-0.5	0.0	6.7	6.1
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	224.5	-58.0	3.8	-21.0	-0.2		0.0	0.0	4.6	0.0	6.7	11.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	222.3	-57.9	3.8	-21.7	-0.2		0.0	0.0	3.1	0.0	6.7	9.8
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	221.0	-57.9	3.7	-18.6	-0.2		0.0	0.0	17.2	0.0	6.7	23.9
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	222.8	-58.0	3.8	-19.0	-0.2		0.0	0.0	8.4	0.0	6.7	15.1
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	222.5	-57.9	2.8	-17.2	-0.2		0.0	0.0	12.9	0.0	6.7	19.6
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	224.0	-58.0	3.8	-20.9	-0.2		0.0	0.0	14.8	0.0	6.7	21.4
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	224.2	-58.0	3.8	-21.1	-0.2		0.0	0.0	5.9	0.0	6.7	12.6
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	226.6	-58.1	4.0	-23.6	-1.2		0.0	0.0	20.4	0.0	6.7	27.1
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	223.5	-58.0	4.0	-22.4	-1.0		0.0	0.0	27.4	0.0	6.7	34.0
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	225.1	-58.0	3.3	-22.2	-0.9		0.0	0.0	23.5	0.0	6.7	30.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	226.7	-58.1	4.0	-23.6	-1.2		0.0	0.0	25.8	0.0	6.7	32.5
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	222.4	-57.9	4.0	-22.3	-1.0		0.0	2.2	18.4	0.0	6.7	25.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	224.8	-58.0	4.0	-23.8	-1.3		0.0	0.0	14.6	0.0	6.7	21.2
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	220.5	-57.9	2.8	-16.7	-0.2		0.0	0.0	6.2	0.0	6.7	12.9
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	219.3	-57.8	3.7	-17.2	-0.1		0.0	0.0	0.5	0.0	6.7	7.2
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	217.7	-57.7	3.7	-17.9	-0.2		0.0	0.0	6.8	0.0	6.7	13.5
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	217.5	-57.7	3.7	-17.5	-0.2		0.0	0.0	1.7	0.0	6.7	8.4
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	223.4	-58.0	3.8	-20.4	-0.2		0.0	0.0	-1.0	0.0	6.7	5.6
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	223.4	-58.0	3.8	-20.0	-0.2		0.0	0.0	4.6	0.0	6.7	11.3
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	222.0	-57.9	3.7	-19.4	-0.2		0.0	0.0	-0.4	0.0	6.7	6.3
Tank Farm Pump 1	CNEL	99.0	3	291.7	-60.3	4.7	-22.9	-1.5		0.0	2.4	21.3	0.0	6.7	28.0
Tank Farm Pump 2	CNEL	99.0	3	309.6	-60.8	4.7	-20.5	-1.4		0.0	0.1	21.1	0.0	6.7	27.7
Tank Farm Pump 3	CNEL	99.0	3	314.8	-61.0	4.7	-20.4	-1.4		0.0	0.1	21.1	0.0	6.7	27.8
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	285.6	-60.1	3.6	-6.5	-2.6	-0.24	0.0	0.1	46.7	-16.8	0.0	29.9
Vaporizer Blower 1	CNEL	88.7		219.5	-57.8	4.4	-23.3	-0.9		0.0	2.4	13.5	0.0	6.7	20.1
Vaporizer Blower 2	CNEL	88.7		218.7	-57.8	4.4	-23.3	-0.9		0.0	2.7	13.8	0.0	6.7	20.5
Vaporizer Inlet Silencer	CNEL	73.7		219.3	-57.8	3.5	-19.5	-0.3		0.0	2.2	1.8	0.0	6.7	8.4
Vaporizer Motor 1	CNEL	83.6		219.3	-57.8	4.4	-23.8	-1.2		0.0	2.5	7.7	0.0	6.7	14.4
Vaporizer Motor 2	CNEL	83.6		218.5	-57.8	4.4	-23.8	-1.2		0.0	2.9	8.1	0.0	6.7	14.8
Water Treatment Pumps P-056A&B	CNEL	93.0		230.2	-58.2	4.6	-23.2	-1.4		0.0	0.0	14.9	0.0	6.7	21.5
XF-1502 Splitter Area 1	CNEL	104.5		130.7	-53.3	2.8	0.0	-1.0	-0.59	-4.3	0.0	48.2	0.0	6.7	54.9
XF-1502 Splitter Area 2	CNEL	104.5		134.4	-53.6	2.8	0.0	-1.0	-0.59	-4.3	0.0	47.9	0.0	6.7	54.6
XF-1504 Splitter Area 1	CNEL	104.5		130.0	-53.3	2.8	0.0	-1.0	-0.14	-4.3	0.0	48.7	0.0	6.7	55.4
XF-1504 Splitter Area 2	CNEL	104.5		133.7	-53.5	2.8	0.0	-1.0	-0.14	-4.3	0.0	48.4	0.0	6.7	55.1
XF 304, XF 321	CNEL	110.5	56	134.5	-53.6	2.7	-6.6	-0.3	-0.08	-2.4	0.1	50.3	0.0	6.7	57.0
XF 313, XF 314	CNEL	113.0	18	113.8	-52.1	2.7	-9.6	-0.3		-3.1	0.1	50.6	0.0	6.7	57.3
XF 335-1, XF 335-2	CNEL	113.4	54	125.6	-53.0	2.7	-8.0	-0.4	-0.03	-2.5	0.7	52.9	0.0	6.7	59.5
XF 503	CNEL	113.0	21	166.9	-55.4	2.8	-2.3	-3.5	-0.51	-4.0	0.0	50.2	0.0	6.7	56.8
XF - 1601	CNEL	96.6		138.9	-53.8	2.8	-9.4	-0.2		-1.3	0.0	34.6	0.0	6.7	41.3
XF - 1602	CNEL	96.6		138.8	-53.8	2.8	-10.1	-0.2		-1.3	0.0	34.0	0.0	6.7	40.6
XF Module 1510	CNEL	108.3		139.2	-53.9	2.8	0.0	-1.0	-0.77	-4.3	0.0	51.2	0.0	6.7	57.9
XF Module 1519	CNEL	109.0		134.0	-53.5	2.8	0.0	-1.0	-0.66	-4.3	0.0	52.4	0.0	6.7	59.0
xxxx xxxx xxxx xxxx	CNEL		606								8.3				31.9
xxxx xxxx xxxx xxxx	CNEL		606								8.4				32.1
xxxx xxxx xxxx xxxx	CNEL		917								8.3				24.0
xxxx xxxx xxxx xxxx	CNEL		917								7.9				24.5
xxxx xxxx xxxx xxxx	CNEL		608								4.2				39.6
xxxx xxxx xxxx xxxx	CNEL		608								4.5				39.7
xxxx xxxx xxxx xxxx	CNEL		1172								8.3				31.6
xxxx xxxx xxxx xxxx	CNEL		520								4.0				34.4
xxxx xxxx xxxx xxxx	CNEL		572								21.3				39.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 61.7 dB(A)			Ld 7-19 dB(A)		Leq,N 61.6 dB(A)		Le 19-22 dB(A)		CNEL 68.3 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	217.5	-57.7	2.9	-7.0	0.0		0.0	0.0	31.6	0.0	6.7	38.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	267.6	-59.5	4.4	-9.1	-2.5	-0.12	0.0	0.1	42.3	-10.8	0.0	31.5
Air Compressor C 1	CNEL	110.0	5	129.3	-53.2	3.3	-14.6	-0.3		0.0	3.3	48.4	0.0	6.7	55.0
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		232.1	-58.3	4.2	-24.1	-2.5		0.0	0.0	19.7	0.0	6.7	26.3
Asphalt Production	CNEL	113.8	1206	278.1	-59.9	3.7	-20.6	-1.4		0.0	0.6	36.1	0.0	6.7	42.8
BFW Pumps P-073A&B	CNEL	95.8		230.2	-58.2	4.4	-23.5	-1.4		0.0	0.0	17.0	0.0	6.7	23.7
Blower F 401	CNEL	113.0		215.4	-57.7	3.8	-10.5	-0.3	-0.62	0.0	0.0	47.7	0.0	6.7	54.4
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	393.2	-62.9	4.8	-15.3	-0.8		0.0	0.8	25.2	0.0	6.7	31.8
Brine Transfer P-085	CNEL	96.2		229.8	-58.2	4.7	-20.6	-1.1		0.0	0.0	21.0	0.0	6.7	27.7
Burner H301 North	CNEL	96.1	10	165.0	-55.3	3.2	0.0	-1.4		0.0	0.1	45.5	0.0	6.7	52.2
Burner H301 South	CNEL	95.9	10	166.6	-55.4	3.2	-16.5	-0.7		0.0	0.4	29.9	0.0	6.7	36.6
Burner H302 North	CNEL	97.0	13	172.6	-55.7	3.3	-0.9	-1.5	-0.11	0.0	0.1	45.1	0.0	6.7	51.8
Burner H302 South	CNEL	97.0	13	174.1	-55.8	3.3	-14.7	-0.7	-0.24	0.0	1.2	33.1	0.0	6.7	39.7
Burner H303 North	CNEL	97.0	13	195.3	-56.8	3.6	-6.0	-1.2	-0.50	0.0	0.5	39.5	0.0	6.7	46.2
Burner H303 South	CNEL	97.0	13	197.6	-56.9	3.7	-19.4	-0.9	-0.10	0.0	6.8	33.1	0.0	6.7	39.8
Burner H304 North	CNEL	97.0	13	189.0	-56.5	3.6	-14.5	-0.7	-0.39	0.0	1.2	32.7	0.0	6.7	39.3
Burner H304 South	CNEL	97.0	13	191.3	-56.6	3.6	-20.1	-0.9	-0.21	0.0	11.6	37.2	0.0	6.7	43.9
Burner H305 North	CNEL	96.3	11	182.8	-56.2	3.5	-10.5	-0.8	-0.34	0.0	0.2	35.2	0.0	6.7	41.8
Burner H305 South	CNEL	96.3	11	184.9	-56.3	3.5	-21.6	-1.0	-0.50	0.0	4.1	27.5	0.0	6.7	34.1
Burner H306 North	CNEL	95.0	8	176.2	-55.9	3.4	-0.7	-1.4	-0.43	0.0	0.0	43.0	0.0	6.7	49.7
Burner H306 South	CNEL	95.1	8	177.9	-56.0	3.4	-18.8	-0.8	-0.49	0.0	1.7	27.0	0.0	6.7	33.7
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	194.1	-56.8	3.3	-11.8	-0.5	-0.52	3.0	0.0	41.5	0.0	6.7	48.1
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	187.5	-56.5	3.3	-5.8	-1.1	-0.53	0.0	0.3	40.3	0.0	6.7	47.0
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	192.6	-56.7	3.3	-6.3	-0.7	-0.46	2.1	0.2	48.0	0.0	6.7	54.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	202.0	-57.1	3.4	-18.1	-0.4	-0.42	-7.8	0.1	30.3	0.0	6.7	37.0
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	190.9	-56.6	3.3	-15.5	-0.4	-0.53	-7.8	0.1	26.3	0.0	6.7	33.0
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	204.3	-57.2	3.4	-18.6	-0.6	-0.58	-7.6	0.0	19.2	0.0	6.7	25.9
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	158.6	-55.0	3.2	-18.1	-0.4		4.4	0.0	31.9	0.0	6.7	38.6
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	162.4	-55.2	3.2	-18.9	-0.5	-0.46	-5.2	5.2	25.9	0.0	6.7	32.6
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	155.0	-54.8	3.0	-10.3	-0.4		3.4	0.5	41.9	0.0	6.7	48.6
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	158.0	-55.0	3.0	-22.0	-0.7		-3.8	0.1	22.2	0.0	6.7	28.9
Cooling Tower M 512	CNEL	95.7		166.6	-55.4	3.6	-22.7	-0.8		0.0	0.0	20.4	0.0	6.7	27.1
Cooling Tower M 513	CNEL	95.7		167.2	-55.5	3.5	-22.6	-0.8	-0.07	0.0	0.0	20.3	0.0	6.7	27.0
Cooling Tower M 514	CNEL	95.7		166.3	-55.4	3.6	-22.6	-0.8		0.0	0.0	20.5	0.0	6.7	27.2
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	360.1	-62.1	4.9	-7.4	-2.6		0.0	0.2	46.7	0.0	6.7	53.4
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	360.1	-62.1	4.4	-4.5	-2.7		0.0	0.1	49.0	0.0	6.7	55.7
CT Y-600-CT Y-600 North	CNEL	96.4	51	343.5	-61.7	4.1	-16.6	-0.9		0.0	0.1	24.4	0.0	6.7	31.1
CT Y-600-CT Y-600 South	CNEL	96.4	52	357.5	-62.1	4.2	-22.2	-1.3		0.0	0.2	18.2	0.0	6.7	24.9
Deaerator Skid P-058A&B	CNEL	96.2		218.7	-57.8	2.9	-22.5	-1.1		0.0	0.0	17.7	0.0	6.7	24.3
Exhaust Stack	CNEL	100.6		217.7	-57.7	2.8	0.0	-0.4		0.0	0.0	45.3	0.0	6.7	51.9
F.G. After Cooler XF-083ABC	CNEL	100.2		233.7	-58.4	3.6	-20.4	-0.4		0.0	1.3	26.0	0.0	6.7	32.7
Fan Y-600	CNEL	107.5		350.2	-61.9	2.9	-22.1	-0.8		0.0	0.2	25.7	0.0	6.7	32.4
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	235.6	-58.4	2.9	-14.2	-0.1		0.0	0.0	12.6	0.0	6.7	19.3
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	237.2	-58.5	3.8	-18.1	-0.1		0.0	0.0	7.9	0.0	6.7	14.6
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	239.8	-58.6	3.9	-23.3	-1.5		0.0	0.0	-5.5	0.0	6.7	1.2
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	232.2	-58.3	3.8	-15.4	-0.1		0.0	0.0	13.7	0.0	6.7	20.4
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	239.0	-58.6	3.8	-18.7	-0.1		0.0	0.0	1.4	0.0	6.7	8.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	234.1	-58.4	3.8	-15.0	-0.1		0.0	0.0	11.1	0.0	6.7	17.8
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	235.9	-58.4	3.8	-22.4	-1.2		0.0	0.0	-4.1	0.0	6.7	2.5
Fin Fan XF 616 - Above	CNEL	96.0	75	363.2	-62.2	2.8	-3.4	-0.9		-11.0	0.0	21.4	0.0	6.7	28.0
Fin Fan XF 616 - Below	CNEL	108.0	75	363.1	-62.2	2.8	-3.5	-1.3		-8.3	0.0	35.5	0.0	6.7	42.2
Fin Fan XF 617 - Above	CNEL	93.0	21	366.8	-62.3	2.8	-1.5	-1.0		-11.1	0.0	20.0	0.0	6.7	26.6
Fin Fan XF 617 - Below	CNEL	104.0	21	366.8	-62.3	2.8	-1.7	-1.5		-8.2	0.0	33.1	0.0	6.7	39.8
Heater # 5-Heater	CNEL	91.1	13	391.4	-62.8	4.8	-19.8	-0.9		0.0	4.7	20.2	0.0	6.7	26.8
Heater # 5-Heater	CNEL	91.1	13	389.1	-62.8	4.8	-19.8	-0.9		0.0	1.9	17.4	0.0	6.7	24.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	386.7	-62.7	4.8	-18.8	-0.9		0.0	0.1	16.6	0.0	6.7	23.2
Heater H 601	CNEL	89.1	13	386.2	-62.7	4.7	-13.2	-0.6		0.0	2.2	19.5	0.0	6.7	26.2
Hydro Heater H-402	CNEL	98.1		176.5	-55.9	3.6	-10.1	-0.3	-0.46	0.0	0.3	35.2	0.0	6.7	41.9
ID Fan	CNEL	110.3		194.5	-56.8	3.0	-10.7	-0.4	-0.36	0.0	1.1	46.2	0.0	6.7	52.9
ID Fan 200 HP Motor	CNEL	104.4		195.5	-56.8	3.7	-21.4	-1.2		0.0	7.0	35.6	0.0	6.7	42.3
Incinirator Compressor & Motor	CNEL	92.5		455.6	-64.2	5.1	-6.6	-1.0		0.0	0.1	26.0	0.0	6.7	32.6
Incinirator Fin Fan	CNEL	94.8		455.3	-64.2	5.1	-7.3	-0.9		0.0	0.1	27.6	0.0	6.7	34.3
Lub Oil Cooler XF-061	CNEL	100.5		216.1	-57.7	4.0	-21.1	-0.4		0.0	0.1	25.4	0.0	6.7	32.0
Misc pumps motors	CNEL	100.2	332	157.5	-54.9	3.1	-5.7	-2.1		0.0	0.1	40.8	0.0	6.7	47.4
Motor & Pump P 56A/B	CNEL	93.7		166.2	-55.4	3.6	-8.2	-0.9	-0.27	0.0	2.1	34.6	0.0	6.7	41.3
Motor & Pump P 120/121	CNEL	96.2	2	137.9	-53.8	3.3	-7.1	-0.5		0.0	1.9	40.0	0.0	6.7	46.7
Motor & Pump P 211/212	CNEL	93.7		197.7	-56.9	4.1	-9.2	-0.9	-1.07	0.0	0.7	30.3	0.0	6.7	37.0
Motor & Pump P 215/214	CNEL	94.6		193.5	-56.7	4.1	-10.1	-0.9	-0.94	0.0	3.4	33.4	0.0	6.7	40.1
Motor & Pump P 216	CNEL	98.3		200.9	-57.0	4.0	-9.4	-1.0	-1.05	0.0	0.0	33.8	0.0	6.7	40.5
Motor & Pump P 217/218	CNEL	93.7		196.2	-56.8	4.4	-10.1	-0.9	-1.03	0.0	1.3	30.5	0.0	6.7	37.1
Motor & Pump P 300	CNEL	97.1	2	145.0	-54.2	3.5	-8.7	-0.5		0.0	1.9	39.2	0.0	6.7	45.8
Motor & Pump P 301	CNEL	102.1	2	146.1	-54.3	3.5	-7.8	-0.5		0.0	1.8	44.7	0.0	6.7	51.4
Motor & Pump P 302	CNEL	97.1	2	143.8	-54.1	3.5	-10.1	-0.5		0.0	2.0	37.8	0.0	6.7	44.5
Motor & Pump P 303	CNEL	97.1	2	142.9	-54.1	3.3	-10.6	-0.5		0.0	2.4	37.7	0.0	6.7	44.4
Motor & Pump P 305	CNEL	97.5	2	141.9	-54.0	3.3	-16.0	-0.4		0.0	6.3	36.6	0.0	6.7	43.3
Motor & Pump P 306	CNEL	112.6	4	136.0	-53.7	2.9	-18.5	-0.5		0.0	0.4	43.2	0.0	6.7	49.9
Motor & Pump P 307	CNEL	102.1	2	149.5	-54.5	3.5	-0.7	-0.9		0.0	2.1	51.6	0.0	6.7	58.3
Motor & Pump P 309	CNEL	97.5	2	140.9	-54.0	3.3	-13.3	-0.5		0.0	4.5	37.6	0.0	6.7	44.2
Motor & Pump P 312	CNEL	101.5	2	165.5	-55.4	4.0	-16.2	-0.5	-0.30	0.0	6.7	39.8	0.0	6.7	46.5
Motor & Pump P 313	CNEL	101.5	2	166.9	-55.4	4.0	-15.7	-0.5	-0.34	0.0	2.1	35.6	0.0	6.7	42.3
Motor & Pump P 315	CNEL	102.9	2	172.0	-55.7	3.9	-13.2	-0.6	-0.35	0.0	0.1	37.1	0.0	6.7	43.7
Motor & Pump P 316	CNEL	102.9	2	173.6	-55.8	3.9	-13.8	-0.6	-0.35	0.0	0.1	36.3	0.0	6.7	43.0
Motor & Pump P 317	CNEL	102.9	2	175.1	-55.9	3.8	-14.2	-0.6	-0.35	0.0	0.1	35.8	0.0	6.7	42.5
Motor & Pump P 318	CNEL	100.2	1	170.2	-55.6	4.1	-16.5	-0.5	-0.34	0.0	0.2	31.5	0.0	6.7	38.2
Motor & Pump P 319	CNEL	100.2	1	169.0	-55.5	4.1	-17.6	-0.5	-0.34	0.0	0.1	30.4	0.0	6.7	37.1
Motor & Pump P 327	CNEL	111.2	3	131.9	-53.4	3.2	-16.8	-0.8		0.0	2.5	45.9	0.0	6.7	52.6
Motor & Pump P 328	CNEL	109.9	5	139.6	-53.9	3.0	-13.4	-0.5		0.0	4.1	49.2	0.0	6.7	55.9
Motor & Pump P 329	CNEL	110.2	5	137.8	-53.8	3.0	-18.0	-0.5		0.0	3.0	43.9	0.0	6.7	50.5
Motor & Pump P 451	CNEL	93.7		182.2	-56.2	3.8	-17.8	-1.0		0.0	0.2	22.7	0.0	6.7	29.3
Motor & Pump P 453	CNEL	93.7		191.9	-56.7	3.9	-18.2	-1.0	-0.59	0.0	0.0	21.1	0.0	6.7	27.8
Motor & Pump P 454	CNEL	93.7		182.5	-56.2	3.8	-17.2	-1.0		0.0	0.2	23.2	0.0	6.7	29.9
Motor & Pump P 457	CNEL	93.7		193.3	-56.7	3.9	-18.3	-1.0	-0.58	0.0	0.0	21.0	0.0	6.7	27.7
Motor & Pump P 458	CNEL	93.7		181.8	-56.2	3.8	-16.0	-0.8	-0.46	0.0	0.1	24.1	0.0	6.7	30.8
Motor & Pump P 459	CNEL	93.7		181.6	-56.2	3.8	-16.6	-1.0		0.0	0.1	23.9	0.0	6.7	30.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		150.1	-54.5	3.5	-16.5	-0.7	-0.72	0.0	0.1	27.4	0.0	6.7	34.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		148.5	-54.4	3.5	-16.2	-0.7	-0.69	0.0	4.0	31.6	0.0	6.7	38.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		114.4	-52.2	2.9	-10.2	-0.7	-0.08	0.0	0.0	35.2	0.0	6.7	41.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		113.3	-52.1	2.9	-9.8	-0.7	-0.06	0.0	0.0	35.7	0.0	6.7	42.4
Motor & Pump P 1601 A	CNEL	96.3	2	140.6	-54.0	2.9	-21.4	-0.9		0.0	1.4	24.3	0.0	6.7	31.0
Motor & Pump P 1601 B	CNEL	96.3	2	140.3	-53.9	2.9	-20.3	-0.8		0.0	2.2	26.4	0.0	6.7	33.0
Motor & Pump P 1602 A	CNEL	96.3	2	140.3	-53.9	2.9	-20.1	-0.8		0.0	7.1	31.5	0.0	6.7	38.2
Motor & Pump P 1602 B	CNEL	96.5	2	140.0	-53.9	2.9	-19.8	-0.8		0.0	3.8	28.8	0.0	6.7	35.4
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	146.1	-54.3	3.5	-20.0	-0.9	-0.27	0.0	0.7	25.5	0.0	6.7	32.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	141.5	-54.0	3.4	-19.5	-0.8	-0.48	0.0	0.8	26.1	0.0	6.7	32.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	139.2	-53.9	3.4	-19.3	-0.8	-0.47	0.0	1.2	26.8	0.0	6.7	33.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	147.0	-54.3	3.4	-16.2	-0.7	-0.69	0.0	0.3	28.5	0.0	6.7	35.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	145.3	-54.2	3.4	-15.9	-0.7	-0.65	0.0	0.3	28.9	0.0	6.7	35.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	132.1	-53.4	3.3	-20.6	-0.8	-0.06	0.0	0.0	24.7	0.0	6.7	31.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	132.8	-53.5	3.3	-20.3	-0.8	-0.20	0.0	0.0	24.9	0.0	6.7	31.5
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	134.3	-53.6	3.3	-19.0	-0.8	-0.43	0.0	0.0	25.8	0.0	6.7	32.4
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	133.7	-53.5	3.3	-19.5	-0.8	-0.35	0.0	0.0	25.5	0.0	6.7	32.1
P602 100 HP	CNEL	94.1		366.3	-62.3	4.8	-19.3	-1.0		0.0	0.2	16.5	0.0	6.7	23.1
P603 60 HP	CNEL	95.0		364.0	-62.2	4.9	-22.4	-1.6		0.0	1.4	15.1	0.0	6.7	21.7
P605 40 HP	CNEL	95.0		364.6	-62.2	4.9	-22.4	-1.6		0.0	1.3	15.0	0.0	6.7	21.7
P607 15 HP	CNEL	90.5		368.7	-62.3	5.0	-21.8	-1.2		0.0	0.3	10.4	0.0	6.7	17.1
P608 15 HP	CNEL	90.5		369.8	-62.4	5.0	-21.7	-1.2		0.0	0.4	10.5	0.0	6.7	17.2
P611 15 HP	CNEL	90.5		367.4	-62.3	4.9	-21.8	-1.3		0.0	0.3	10.4	0.0	6.7	17.1
P614/615 20 HP	CNEL	93.0		358.5	-62.1	4.5	-16.9	-1.1		0.0	0.2	17.5	0.0	6.7	24.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	263.7	-59.4	4.5	-8.4	-0.6	-0.31	0.0	0.0	70.5	-38.6	0.0	31.9
Scanner Blower C-084A/B	CNEL	95.5		221.4	-57.9	4.0	-24.1	-1.0		0.0	0.0	16.5	0.0	6.7	23.1
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	215.8	-57.7	3.9	-12.6	-0.1		0.0	0.0	5.0	0.0	6.7	11.7
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	216.4	-57.7	3.9	-10.9	-0.1		0.0	0.0	5.0	0.0	6.7	11.7
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	217.4	-57.7	3.2	-11.8	-0.1		0.0	0.0	3.0	0.0	6.7	9.7
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	219.1	-57.8	3.9	-15.6	-0.1		0.0	0.0	1.9	0.0	6.7	8.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	218.4	-57.8	3.9	-14.0	-0.2		0.0	0.0	3.8	0.0	6.7	10.5
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	220.3	-57.9	3.8	-21.0	-0.2		0.0	0.0	4.8	0.0	6.7	11.5
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	218.1	-57.8	3.7	-21.8	-0.2		0.0	0.0	3.2	0.0	6.7	9.9
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	217.2	-57.7	3.7	-18.1	-0.2		0.0	0.0	17.8	0.0	6.7	24.5
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	218.5	-57.8	3.7	-18.5	-0.2		0.0	0.0	9.0	0.0	6.7	15.7
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	218.7	-57.8	2.8	-17.2	-0.2		0.0	0.0	13.1	0.0	6.7	19.8
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	220.2	-57.8	3.7	-20.8	-0.2		0.0	0.0	15.0	0.0	6.7	21.7
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	219.9	-57.8	3.7	-21.0	-0.2		0.0	0.0	6.1	0.0	6.7	12.8
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	221.1	-57.9	4.0	-23.6	-1.2		0.0	0.4	20.9	0.0	6.7	27.6
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	218.5	-57.8	3.9	-22.4	-1.0		0.0	0.0	27.5	0.0	6.7	34.2
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	220.2	-57.8	3.2	-22.0	-0.9		0.0	0.0	23.8	0.0	6.7	30.5
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	221.8	-57.9	4.0	-23.6	-1.2		0.0	0.0	26.0	0.0	6.7	32.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	218.1	-57.8	3.9	-22.3	-0.9		0.0	2.0	18.4	0.0	6.7	25.1
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	220.5	-57.9	4.0	-23.8	-1.2		0.0	0.0	14.7	0.0	6.7	21.4
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	217.8	-57.8	2.8	-16.1	-0.1		0.0	0.0	6.9	0.0	6.7	13.6
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	216.0	-57.7	3.7	-16.2	-0.1		0.0	0.0	1.6	0.0	6.7	8.3
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	214.9	-57.6	3.7	-16.4	-0.1		0.0	0.0	8.4	0.0	6.7	15.1
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	215.3	-57.7	3.7	-15.1	-0.1		0.0	0.0	4.2	0.0	6.7	10.9
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	220.3	-57.9	3.7	-20.1	-0.2		0.0	0.0	-0.6	0.0	6.7	6.0
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	220.7	-57.9	3.7	-19.2	-0.2		0.0	0.0	5.5	0.0	6.7	12.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	219.8	-57.8	3.7	-17.8	-0.2		0.0	0.0	1.2	0.0	6.7	7.9
Tank Farm Pump 1	CNEL	99.0	3	272.5	-59.7	4.6	-23.1	-1.5		0.0	2.3	21.6	0.0	6.7	28.2
Tank Farm Pump 2	CNEL	99.0	3	289.8	-60.2	4.6	-21.8	-1.4		0.0	0.7	21.0	0.0	6.7	27.7
Tank Farm Pump 3	CNEL	99.0	3	294.9	-60.4	4.7	-21.1	-1.4		0.0	0.1	21.0	0.0	6.7	27.7
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	300.1	-60.5	3.7	-6.6	-2.9	-0.15	0.0	0.1	46.0	-16.8	0.0	29.1
Vaporizer Blower 1	CNEL	88.7		215.7	-57.7	4.3	-23.2	-0.8		0.0	2.1	13.4	0.0	6.7	20.1
Vaporizer Blower 2	CNEL	88.7		214.9	-57.6	4.3	-23.2	-0.8		0.0	2.1	13.4	0.0	6.7	20.1
Vaporizer Inlet Silencer	CNEL	73.7		215.3	-57.7	3.4	-19.1	-0.3		0.0	2.0	2.0	0.0	6.7	8.7
Vaporizer Motor 1	CNEL	83.6		215.6	-57.7	4.3	-23.7	-1.2		0.0	2.2	7.6	0.0	6.7	14.3
Vaporizer Motor 2	CNEL	83.6		214.8	-57.6	4.3	-23.7	-1.2		0.0	2.1	7.6	0.0	6.7	14.3
Water Treatment Pumps P-056A&B	CNEL	93.0		227.9	-58.1	4.6	-22.3	-1.2		0.0	0.0	15.9	0.0	6.7	22.6
XF-1502 Splitter Area 1	CNEL	104.5		137.1	-53.7	2.8	-18.8	-0.6	0.00	-2.8	0.0	31.5	0.0	6.7	38.2
XF-1502 Splitter Area 2	CNEL	104.5		140.6	-54.0	2.8	-19.6	-0.6		-3.0	0.0	30.2	0.0	6.7	36.9
XF-1504 Splitter Area 1	CNEL	104.5		135.6	-53.6	2.8	-19.7	-0.6	-0.01	-2.7	0.0	30.7	0.0	6.7	37.4
XF-1504 Splitter Area 2	CNEL	104.5		139.2	-53.9	2.8	-19.8	-0.6		-2.7	0.0	30.5	0.0	6.7	37.1
XF 304, XF 321	CNEL	110.5	56	151.4	-54.6	2.7	-6.5	-0.4	-0.07	-2.5	0.2	49.4	0.0	6.7	56.1
XF 313, XF 314	CNEL	113.0	18	133.3	-53.5	2.7	-9.3	-0.4		-3.2	0.1	49.5	0.0	6.7	56.2
XF 335-1, XF 335-2	CNEL	113.4	54	143.5	-54.1	2.7	-7.6	-0.5	-0.04	-2.6	0.2	51.4	0.0	6.7	58.0
XF 503	CNEL	113.0	21	178.4	-56.0	2.8	-2.0	-3.9	-0.53	-4.0	0.0	49.4	0.0	6.7	56.1
XF - 1601	CNEL	96.6		141.9	-54.0	2.8	-14.4	-0.2		-0.8	1.4	31.4	0.0	6.7	38.0
XF - 1602	CNEL	96.6		140.7	-54.0	2.8	-12.8	-0.2		-0.8	0.0	31.6	0.0	6.7	38.3
XF Module 1510	CNEL	108.3		146.2	-54.3	2.8	-17.9	-0.6	-0.18	-2.8	0.0	35.4	0.0	6.7	42.0
XF Module 1519	CNEL	109.0		141.2	-54.0	2.8	-17.3	-0.6	-0.17	-2.9	0.0	37.0	0.0	6.7	43.6
xxxx xxxx xxxx xxxx	CNEL		606								7.2				32.1
xxxx xxxx xxxx xxxx	CNEL		606								7.3				32.4
xxxx xxxx xxxx xxxx	CNEL		917								5.0				25.2
xxxx xxxx xxxx xxxx	CNEL		917								5.1				26.0
xxxx xxxx xxxx xxxx	CNEL		608								3.8				37.9
xxxx xxxx xxxx xxxx	CNEL		608								4.0				37.8
xxxx xxxx xxxx xxxx	CNEL		1172								7.4				36.5
xxxx xxxx xxxx xxxx	CNEL		520								4.8				35.9
xxxx xxxx xxxx xxxx	CNEL		572								3.8				46.3

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 59.0 dB(A)		Ld 7-19 dB(A)		Leq,N 58.9 dB(A)		Le 19-22 dB(A)		CNEL 65.6 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	214.8	-57.6	2.9	-0.8	-0.1		0.0	0.0	37.8	0.0	6.7	44.5
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	273.7	-59.7	4.5	-13.7	-1.5	-0.06	0.0	0.1	38.4	-10.8	0.0	27.6
Air Compressor C 1	CNEL	110.0	5	147.6	-54.4	3.5	-15.1	-0.4		0.0	1.5	45.2	0.0	6.7	51.9
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		230.4	-58.2	4.2	-20.0	-1.3		0.0	0.0	25.0	0.0	6.7	31.7
Asphalt Production	CNEL	113.8	1206	271.1	-59.7	3.6	-7.3	-2.2		0.0	0.1	48.4	0.0	6.7	55.1
BFW Pumps P-073A&B	CNEL	95.8		229.5	-58.2	4.4	-20.6	-1.0		0.0	0.0	20.4	0.0	6.7	27.1
Blower F 401	CNEL	113.0		225.9	-58.1	3.8	-15.6	-0.3	-0.42	0.0	0.0	42.5	0.0	6.7	49.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	383.4	-62.7	4.8	-19.9	-0.8		0.0	0.5	20.5	0.0	6.7	27.2
Brine Transfer P-085	CNEL	96.2		230.5	-58.2	4.7	-22.7	-1.3		0.0	0.0	18.7	0.0	6.7	25.4
Burner H301 North	CNEL	96.1	10	186.4	-56.4	3.4	-0.7	-1.4		0.0	0.0	43.9	0.0	6.7	50.6
Burner H301 South	CNEL	95.9	10	187.8	-56.5	3.4	-12.4	-0.8		0.0	0.9	33.6	0.0	6.7	40.3
Burner H302 North	CNEL	97.0	13	193.3	-56.7	3.5	0.0	-1.6	-0.18	0.0	0.1	45.1	0.0	6.7	51.8
Burner H302 South	CNEL	97.0	13	194.6	-56.8	3.6	-13.7	-0.8	-0.35	0.0	0.1	32.0	0.0	6.7	38.7
Burner H303 North	CNEL	97.0	13	213.8	-57.6	3.8	-5.7	-1.2	-0.50	0.0	0.0	38.9	0.0	6.7	45.6
Burner H303 South	CNEL	97.0	13	216.0	-57.7	3.8	-21.5	-1.1	-0.08	0.0	1.6	25.0	0.0	6.7	31.7
Burner H304 North	CNEL	97.0	13	208.1	-57.4	3.7	-15.2	-0.8	-0.14	0.0	0.3	30.6	0.0	6.7	37.3
Burner H304 South	CNEL	97.0	13	210.2	-57.4	3.8	-20.0	-1.0	-0.14	0.0	8.6	33.8	0.0	6.7	40.5
Burner H305 North	CNEL	96.3	11	202.4	-57.1	3.7	-11.5	-0.7	-0.48	0.0	0.2	33.4	0.0	6.7	40.1
Burner H305 South	CNEL	96.3	11	204.3	-57.2	3.7	-20.5	-1.0	-0.48	0.0	0.6	24.5	0.0	6.7	31.1
Burner H306 North	CNEL	95.0	8	196.3	-56.8	3.6	-4.2	-1.2	-0.36	0.0	0.0	39.0	0.0	6.7	45.7
Burner H306 South	CNEL	95.1	8	197.8	-56.9	3.6	-21.7	-1.1	-0.47	0.0	0.5	22.0	0.0	6.7	28.7
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	208.9	-57.4	3.4	-18.1	-0.5	-0.53	2.7	0.1	34.6	0.0	6.7	41.2
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	202.3	-57.1	3.3	-14.3	-0.6	-0.52	0.0	0.1	31.5	0.0	6.7	38.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	208.3	-57.4	3.4	-15.4	-0.4	-0.39	2.4	0.2	38.9	0.0	6.7	45.6
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	217.3	-57.7	3.5	-20.7	-0.6	-0.35	-7.7	0.2	27.2	0.0	6.7	33.8
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	205.7	-57.3	3.4	-19.6	-0.5	-0.51	-7.8	0.2	21.6	0.0	6.7	28.3
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	220.4	-57.9	3.5	-21.2	-0.8	-0.49	-7.7	0.1	15.9	0.0	6.7	22.5
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	166.4	-55.4	3.2	-18.6	-0.5		3.9	0.0	30.5	0.0	6.7	37.2
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	171.8	-55.7	3.1	-21.9	-0.8	-0.17	-6.3	0.1	16.3	0.0	6.7	22.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	159.5	-55.0	3.0	-16.2	-0.4		4.4	2.4	38.8	0.0	6.7	45.5
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	165.0	-55.3	3.1	-20.8	-0.7		-5.4	0.0	21.6	0.0	6.7	28.2
Cooling Tower M 512	CNEL	95.7		175.0	-55.9	3.7	-22.9	-0.8		0.0	0.7	20.5	0.0	6.7	27.2
Cooling Tower M 513	CNEL	95.7		175.7	-55.9	3.6	-22.9	-0.8		0.0	0.7	20.4	0.0	6.7	27.1
Cooling Tower M 514	CNEL	95.7		174.5	-55.8	3.7	-22.7	-0.8		0.0	0.8	20.8	0.0	6.7	27.5
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	348.8	-61.8	4.9	-19.5	-1.4		0.0	0.5	36.4	0.0	6.7	43.1
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	348.8	-61.8	4.4	-16.9	-1.2		0.0	0.3	38.5	0.0	6.7	45.1
CT Y-600-CT Y-600 North	CNEL	96.4	51	335.8	-61.5	4.0	-6.7	-1.2		0.0	0.0	34.0	0.0	6.7	40.6
CT Y-600-CT Y-600 South	CNEL	96.4	52	350.1	-61.9	4.1	-20.9	-1.1		0.0	0.0	19.7	0.0	6.7	26.3
Deaerator Skid P-058A&B	CNEL	96.2		217.7	-57.7	2.9	-5.3	-1.0		0.0	0.0	35.1	0.0	6.7	41.8
Exhaust Stack	CNEL	100.6		218.9	-57.8	2.8	-8.2	-0.3		0.0	0.0	37.1	0.0	6.7	43.7
F.G. After Cooler XF-083ABC	CNEL	100.2		230.4	-58.2	3.6	-12.6	-0.4		0.0	0.0	32.5	0.0	6.7	39.2
Fan Y-600	CNEL	107.5		342.6	-61.7	2.9	-12.5	-0.7		0.0	0.0	35.5	0.0	6.7	42.2
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	231.4	-58.3	2.8	-6.2	-0.1		0.0	0.0	20.6	0.0	6.7	27.3
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	232.3	-58.3	3.8	-15.0	-0.1		0.0	0.0	11.1	0.0	6.7	17.8
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	235.0	-58.4	3.8	-22.4	-1.2		0.0	0.8	-3.3	0.0	6.7	3.4
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	228.0	-58.1	3.7	-9.1	-0.1		0.0	0.0	20.0	0.0	6.7	26.7
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	234.8	-58.4	3.8	-15.7	-0.1		0.0	0.0	4.6	0.0	6.7	11.2
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	230.5	-58.2	3.7	-7.4	-0.1		0.0	0.0	18.8	0.0	6.7	25.5
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	232.4	-58.3	3.8	-14.1	-1.4		0.0	0.1	4.2	0.0	6.7	10.9
Fin Fan XF 616 - Above	CNEL	96.0	75	354.0	-62.0	2.8	-6.0	-0.7		-11.1	0.0	19.0	0.0	6.7	25.7
Fin Fan XF 616 - Below	CNEL	108.0	75	354.0	-62.0	2.8	-6.6	-0.9		-8.2	0.0	33.3	0.0	6.7	39.9
Fin Fan XF 617 - Above	CNEL	93.0	21	357.2	-62.0	2.8	-7.6	-0.6		-11.2	0.0	14.3	0.0	6.7	21.0
Fin Fan XF 617 - Below	CNEL	104.0	21	357.1	-62.0	2.8	-8.3	-0.8		-8.1	0.0	27.6	0.0	6.7	34.2
Heater # 5-Heater	CNEL	91.1	13	381.4	-62.6	4.8	-21.8	-1.0		0.0	2.4	15.9	0.0	6.7	22.6
Heater # 5-Heater	CNEL	91.1	13	379.3	-62.6	4.8	-21.5	-1.0		0.0	1.0	14.8	0.0	6.7	21.5

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	377.2	-62.5	4.8	-21.8	-1.0		0.0	0.0	13.5	0.0	6.7	20.2
Heater H 601	CNEL	89.1	13	377.2	-62.5	4.7	-12.4	-0.5		0.0	0.0	18.3	0.0	6.7	25.0
Hydro Heater H-402	CNEL	98.1		187.7	-56.5	3.7	-14.7	-0.3	-0.50	0.0	0.0	29.9	0.0	6.7	36.5
ID Fan	CNEL	110.3		214.7	-57.6	3.2	-10.7	-0.4	-0.47	0.0	0.3	44.5	0.0	6.7	51.2
ID Fan 200 HP Motor	CNEL	104.4		215.6	-57.7	3.9	-21.5	-1.3		0.0	5.0	32.8	0.0	6.7	39.5
Incinirator Compressor & Motor	CNEL	92.5		443.5	-63.9	5.1	-14.0	-0.6		0.0	0.2	19.3	0.0	6.7	26.0
Incinirator Fin Fan	CNEL	94.8		443.2	-63.9	5.1	-12.9	-0.5		0.0	0.2	22.8	0.0	6.7	29.5
Lub Oil Cooler XF-061	CNEL	100.5		214.5	-57.6	3.9	-15.5	-0.3		0.0	0.2	31.2	0.0	6.7	37.8
Misc pumps motors	CNEL	100.2	332	147.8	-54.4	3.0	-14.0	-1.9		0.0	3.0	35.9	0.0	6.7	42.6
Motor & Pump P 56A/B	CNEL	93.7		179.1	-56.1	3.7	-19.4	-1.0	-0.23	0.0	0.9	21.5	0.0	6.7	28.2
Motor & Pump P 120/121	CNEL	96.2	2	155.1	-54.8	3.5	-17.1	-0.5	-0.01	0.0	0.6	27.9	0.0	6.7	34.5
Motor & Pump P 211/212	CNEL	93.7		210.8	-57.5	4.2	-19.1	-1.1	-0.93	0.0	0.3	19.6	0.0	6.7	26.3
Motor & Pump P 215/214	CNEL	94.6		207.0	-57.3	4.2	-21.0	-1.1	-0.91	0.0	1.4	19.8	0.0	6.7	26.5
Motor & Pump P 216	CNEL	98.3		214.6	-57.6	4.1	-20.7	-1.1	-1.04	0.0	0.5	22.3	0.0	6.7	29.0
Motor & Pump P 217/218	CNEL	93.7		209.5	-57.4	4.5	-18.9	-1.1	-0.93	0.0	0.9	20.7	0.0	6.7	27.4
Motor & Pump P 300	CNEL	97.1	2	163.1	-55.2	3.7	-10.8	-0.5		0.0	0.6	34.8	0.0	6.7	41.5
Motor & Pump P 301	CNEL	102.1	2	164.2	-55.3	3.7	-11.0	-0.5		0.0	0.9	39.8	0.0	6.7	46.5
Motor & Pump P 302	CNEL	97.1	2	162.1	-55.2	3.7	-10.2	-0.5		0.0	0.2	35.1	0.0	6.7	41.7
Motor & Pump P 303	CNEL	97.1	2	161.3	-55.1	3.6	-10.5	-0.5		0.0	0.7	35.3	0.0	6.7	41.9
Motor & Pump P 305	CNEL	97.5	2	160.4	-55.1	3.6	-15.3	-0.5		0.0	2.0	32.2	0.0	6.7	38.9
Motor & Pump P 306	CNEL	112.6	4	155.2	-54.8	3.2	-18.3	-0.6		0.0	0.3	42.4	0.0	6.7	49.1
Motor & Pump P 307	CNEL	102.1	2	167.2	-55.5	3.7	-6.0	-0.6		0.0	1.2	44.9	0.0	6.7	51.6
Motor & Pump P 309	CNEL	97.5	2	159.6	-55.1	3.6	-17.7	-0.5		0.0	3.0	30.9	0.0	6.7	37.6
Motor & Pump P 312	CNEL	101.5	2	181.7	-56.2	4.1	-21.2	-0.7	-0.30	0.0	0.8	28.1	0.0	6.7	34.8
Motor & Pump P 313	CNEL	101.5	2	182.9	-56.2	4.1	-20.7	-0.7	-0.30	0.0	1.0	28.8	0.0	6.7	35.4
Motor & Pump P 315	CNEL	102.9	2	187.7	-56.5	4.0	-21.0	-0.7	-0.31	0.0	0.3	28.8	0.0	6.7	35.4
Motor & Pump P 316	CNEL	102.9	2	189.1	-56.5	4.0	-20.6	-0.7	-0.31	0.0	0.3	29.0	0.0	6.7	35.7
Motor & Pump P 317	CNEL	102.9	2	190.5	-56.6	4.0	-20.2	-0.7	-0.32	0.0	0.4	29.4	0.0	6.7	36.1
Motor & Pump P 318	CNEL	100.2	1	185.9	-56.4	4.2	-21.1	-0.7	-0.31	0.0	0.3	26.2	0.0	6.7	32.9
Motor & Pump P 319	CNEL	100.2	1	184.8	-56.3	4.2	-19.0	-0.6	-0.31	0.0	0.2	28.4	0.0	6.7	35.0
Motor & Pump P 327	CNEL	111.2	3	151.7	-54.6	3.5	-16.6	-0.9		0.0	2.7	45.3	0.0	6.7	52.0
Motor & Pump P 328	CNEL	109.9	5	158.4	-55.0	3.3	-13.8	-0.5		0.0	1.7	45.6	0.0	6.7	52.3
Motor & Pump P 329	CNEL	110.2	5	156.8	-54.9	3.3	-14.4	-0.6		0.0	1.7	45.3	0.0	6.7	51.9
Motor & Pump P 451	CNEL	93.7		193.0	-56.7	3.9	-19.2	-0.9	-0.55	0.0	0.0	20.2	0.0	6.7	26.8
Motor & Pump P 453	CNEL	93.7		201.9	-57.1	4.0	-21.1	-1.1	-0.39	0.0	0.5	18.4	0.0	6.7	25.1
Motor & Pump P 454	CNEL	93.7		193.4	-56.7	3.9	-20.4	-1.1		0.0	0.0	19.4	0.0	6.7	26.0
Motor & Pump P 457	CNEL	93.7		203.2	-57.2	4.0	-21.2	-1.1	-0.37	0.0	0.5	18.4	0.0	6.7	25.0
Motor & Pump P 458	CNEL	93.7		192.5	-56.7	3.9	-19.2	-0.9	-0.58	0.0	0.0	20.2	0.0	6.7	26.8
Motor & Pump P 459	CNEL	93.7		192.6	-56.7	3.9	-20.8	-1.2		0.0	0.0	18.9	0.0	6.7	25.5
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		160.9	-55.1	3.6	-20.1	-0.8	-0.56	0.0	1.5	24.7	0.0	6.7	31.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		159.5	-55.0	3.6	-20.0	-0.8	-0.56	0.0	0.4	23.8	0.0	6.7	30.4
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		126.6	-53.0	3.1	-20.5	-0.8	-0.10	0.0	1.7	25.7	0.0	6.7	32.4
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		125.6	-53.0	3.0	-20.5	-0.8	-0.07	0.0	2.0	26.1	0.0	6.7	32.8
Motor & Pump P 1601 A	CNEL	96.3	2	147.8	-54.4	3.0	-21.8	-1.0		0.0	2.6	24.8	0.0	6.7	31.4
Motor & Pump P 1601 B	CNEL	96.3	2	147.2	-54.4	3.0	-21.1	-0.9		0.0	2.2	25.2	0.0	6.7	31.9
Motor & Pump P 1602 A	CNEL	96.3	2	147.0	-54.3	3.0	-19.4	-0.8		0.0	1.2	25.9	0.0	6.7	32.6
Motor & Pump P 1602 B	CNEL	96.5	2	146.5	-54.3	3.0	-15.5	-0.7		0.0	0.3	29.2	0.0	6.7	35.9
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	155.8	-54.8	3.6	-21.7	-1.0	-0.35	0.0	1.2	23.6	0.0	6.7	30.3
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	151.6	-54.6	3.5	-20.4	-0.8	-0.26	0.0	0.8	24.9	0.0	6.7	31.5
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	149.4	-54.5	3.5	-20.4	-0.8	-0.29	0.0	0.3	24.4	0.0	6.7	31.1
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	157.9	-55.0	3.6	-20.0	-0.8	-0.56	0.0	0.3	24.2	0.0	6.7	30.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	156.4	-54.9	3.6	-20.3	-0.8	-0.55	0.0	0.4	24.1	0.0	6.7	30.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	141.6	-54.0	3.4	-22.2	-1.0	-0.04	0.0	1.3	23.9	0.0	6.7	30.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	142.7	-54.1	3.5	-20.6	-0.8	-0.18	0.0	0.4	24.5	0.0	6.7	31.2
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	144.8	-54.2	3.4	-20.5	-0.8	-0.33	0.0	0.1	24.0	0.0	6.7	30.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	143.9	-54.2	3.5	-20.5	-0.8	-0.24	0.0	1.0	25.1	0.0	6.7	31.8
P602 100 HP	CNEL	94.1		357.5	-62.1	4.8	-19.4	-1.0		0.0	0.0	16.4	0.0	6.7	23.1
P603 60 HP	CNEL	95.0		355.6	-62.0	4.9	-19.3	-1.5		0.0	0.0	17.1	0.0	6.7	23.7
P605 40 HP	CNEL	95.0		356.0	-62.0	4.9	-19.5	-1.5		0.0	0.1	17.0	0.0	6.7	23.6
P607 15 HP	CNEL	90.5		359.6	-62.1	4.9	-19.4	-1.1		0.0	0.0	12.7	0.0	6.7	19.4
P608 15 HP	CNEL	90.5		360.5	-62.1	4.9	-19.6	-1.1		0.0	0.0	12.6	0.0	6.7	19.3
P611 15 HP	CNEL	90.5		358.5	-62.1	4.9	-19.2	-1.1		0.0	0.0	13.0	0.0	6.7	19.6
P614/615 20 HP	CNEL	93.0		349.6	-61.9	4.5	-13.1	-1.1		0.0	0.0	21.4	0.0	6.7	28.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	272.3	-59.7	4.6	-12.3	-0.5	-0.13	0.0	0.0	66.6	-38.6	0.0	28.1
Scanner Blower C-084A/B	CNEL	95.5		220.2	-57.8	3.9	-23.3	-0.8		0.0	0.0	17.5	0.0	6.7	24.1
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	216.6	-57.7	3.9	-15.5	-0.1		0.0	0.0	2.1	0.0	6.7	8.7
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	217.4	-57.7	3.9	-16.0	-0.1		0.0	0.0	-0.2	0.0	6.7	6.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	218.3	-57.8	3.1	-15.1	-0.1		0.0	0.0	-0.4	0.0	6.7	6.3
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	219.9	-57.8	3.9	-17.5	-0.1		0.0	0.0	-0.1	0.0	6.7	6.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	219.5	-57.8	3.9	-18.4	-0.2		0.0	0.0	-0.7	0.0	6.7	6.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	218.9	-57.8	3.7	-17.8	-0.2		0.0	0.0	8.1	0.0	6.7	14.7
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	216.6	-57.7	3.7	-12.2	-0.2		0.0	0.0	12.8	0.0	6.7	19.5
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	216.2	-57.7	3.7	-12.0	-0.2		0.0	0.0	23.9	0.0	6.7	30.6
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	217.0	-57.7	3.7	-12.1	-0.2		0.0	0.0	15.4	0.0	6.7	22.1
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	217.7	-57.8	2.8	-7.4	-0.3		0.0	0.0	22.8	0.0	6.7	29.5
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	219.3	-57.8	3.7	-17.9	-0.2		0.0	0.0	17.9	0.0	6.7	24.6
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	218.4	-57.8	3.7	-18.0	-0.2		0.0	0.0	9.1	0.0	6.7	15.8
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	218.3	-57.8	3.9	-21.1	-0.8		0.0	0.2	23.6	0.0	6.7	30.3
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	216.3	-57.7	3.9	-15.6	-0.6		0.0	0.0	34.8	0.0	6.7	41.4
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	218.0	-57.8	3.2	-12.5	-0.6		0.0	0.1	33.7	0.0	6.7	40.3
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	219.6	-57.8	3.9	-21.0	-0.8		0.0	0.1	29.1	0.0	6.7	35.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	216.5	-57.7	3.9	-16.6	-0.5		0.0	2.6	25.1	0.0	6.7	31.7
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	218.9	-57.8	3.9	-22.7	-1.0		0.0	0.0	16.0	0.0	6.7	22.7
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	217.9	-57.8	2.8	-8.4	-0.3		0.0	0.0	14.4	0.0	6.7	21.1
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	215.6	-57.7	3.7	-8.2	-0.2		0.0	0.0	9.5	0.0	6.7	16.2
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	215.0	-57.6	3.7	-12.2	-0.2		0.0	0.0	12.5	0.0	6.7	19.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	215.9	-57.7	3.7	-16.6	-0.2		0.0	0.0	2.6	0.0	6.7	9.3
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	219.8	-57.8	3.7	-16.1	-0.2		0.0	0.0	3.4	0.0	6.7	10.1
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	220.8	-57.9	3.7	-17.7	-0.2		0.0	0.0	6.9	0.0	6.7	13.6
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	220.4	-57.9	3.7	-19.1	-0.2		0.0	0.0	0.0	0.0	6.7	6.6
Tank Farm Pump 1	CNEL	99.0	3	254.4	-59.1	4.5	-22.9	-1.4		0.0	0.5	20.6	0.0	6.7	27.3
Tank Farm Pump 2	CNEL	99.0	3	271.1	-59.7	4.6	-15.1	-1.2		0.0	0.0	27.6	0.0	6.7	34.3
Tank Farm Pump 3	CNEL	99.0	3	276.0	-59.8	4.6	-14.5	-1.2		0.0	0.0	28.1	0.0	6.7	34.7
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	315.3	-61.0	3.7	-8.3	-3.0	-0.04	0.0	0.1	43.8	-16.8	0.0	27.0
Vaporizer Blower 1	CNEL	88.7		214.6	-57.6	4.3	-18.9	-0.6		0.0	3.1	18.9	0.0	6.7	25.6
Vaporizer Blower 2	CNEL	88.7		213.9	-57.6	4.3	-19.0	-0.6		0.0	3.8	19.6	0.0	6.7	26.2
Vaporizer Inlet Silencer	CNEL	73.7		214.1	-57.6	3.4	-12.6	-0.2		0.0	2.7	9.3	0.0	6.7	16.0
Vaporizer Motor 1	CNEL	83.6		214.6	-57.6	4.3	-19.8	-0.8		0.0	3.4	13.1	0.0	6.7	19.7
Vaporizer Motor 2	CNEL	83.6		213.8	-57.6	4.3	-20.0	-0.8		0.0	4.2	13.8	0.0	6.7	20.5
Water Treatment Pumps P-056A&B	CNEL	93.0		228.3	-58.2	4.6	-23.1	-1.3		0.0	0.0	15.0	0.0	6.7	21.7
XF-1502 Splitter Area 1	CNEL	104.5		147.1	-54.3	2.8	-19.9	-0.6	0.00	-2.7	0.0	29.8	0.0	6.7	36.5
XF-1502 Splitter Area 2	CNEL	104.5		150.4	-54.5	2.8	-20.6	-0.6		-2.6	0.0	28.9	0.0	6.7	35.6
XF-1504 Splitter Area 1	CNEL	104.5		145.0	-54.2	2.8	-20.7	-0.6	-0.01	-2.5	0.0	29.3	0.0	6.7	36.0
XF-1504 Splitter Area 2	CNEL	104.5		148.3	-54.4	2.8	-20.7	-0.6		-2.5	0.0	29.1	0.0	6.7	35.8
XF 304, XF 321	CNEL	110.5	56	169.7	-55.6	2.7	-6.3	-0.4	-0.06	-2.5	0.1	48.4	0.0	6.7	55.1
XF 313, XF 314	CNEL	113.0	18	153.7	-54.7	2.6	-8.9	-0.4		-3.2	0.1	48.5	0.0	6.7	55.2
XF 335-1, XF 335-2	CNEL	113.4	54	162.7	-55.2	2.7	-7.2	-0.6	-0.05	-2.7	0.1	50.3	0.0	6.7	57.0
XF 503	CNEL	113.0	21	192.1	-56.7	2.8	-17.1	-0.8	-0.53	-2.9	0.1	38.0	0.0	6.7	44.7
XF - 1601	CNEL	96.6		148.6	-54.4	2.8	-15.3	-0.2		-0.8	0.0	28.6	0.0	6.7	35.2
XF - 1602	CNEL	96.6		146.6	-54.3	2.8	-11.8	-0.2		-1.1	0.0	31.9	0.0	6.7	38.6
XF Module 1510	CNEL	108.3		156.4	-54.9	2.8	-18.1	-0.5	-0.18	-2.5	0.0	35.0	0.0	6.7	41.7
XF Module 1519	CNEL	109.0		151.8	-54.6	2.8	-18.3	-0.5	-0.16	-2.5	0.0	35.8	0.0	6.7	42.5
xxxx xxxx xxxx xxxx	CNEL		606								10.7				35.2
xxxx xxxx xxxx xxxx	CNEL		606								10.4				35.1
xxxx xxxx xxxx xxxx	CNEL		917								4.7				24.2
xxxx xxxx xxxx xxxx	CNEL		917								5.1				24.9
xxxx xxxx xxxx xxxx	CNEL		608								4.3				36.8
xxxx xxxx xxxx xxxx	CNEL		608								4.4				36.8
xxxx xxxx xxxx xxxx	CNEL		1172								6.5				39.8
xxxx xxxx xxxx xxxx	CNEL		520								5.6				37.7
xxxx xxxx xxxx xxxx	CNEL		572								4.8				46.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 55.8 dB(A)		Ld 7-19 dB(A)		Leq,N 55.7 dB(A)		Le 19-22 dB(A)		CNEL 62.4 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	214.6	-57.6	2.9	-1.5	-0.1		0.0	0.0	37.1	0.0	6.7	43.8
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	281.1	-60.0	4.5	-11.9	-1.8	-0.03	0.0	0.0	39.8	-10.8	0.0	29.0
Air Compressor C 1	CNEL	110.0	5	167.5	-55.5	3.8	-21.3	-0.5		0.0	1.8	38.3	0.0	6.7	45.0
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		231.0	-58.3	4.2	-20.2	-1.4		0.0	0.0	24.8	0.0	6.7	31.4
Asphalt Production	CNEL	113.8	1206	265.9	-59.5	3.6	-20.9	-1.3		0.0	0.0	35.6	0.0	6.7	42.3
BFW Pumps P-073A&B	CNEL	95.8		231.2	-58.3	4.4	-19.5	-0.9		0.0	0.1	21.6	0.0	6.7	28.3
Blower F 401	CNEL	113.0		238.4	-58.5	3.9	-18.4	-0.3	-0.35	0.0	0.0	39.3	0.0	6.7	46.0
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	374.6	-62.5	4.8	-20.6	-0.9		0.0	0.6	20.0	0.0	6.7	26.7
Brine Transfer P-085	CNEL	96.2		233.5	-58.4	4.7	-21.4	-1.0		0.0	0.0	20.2	0.0	6.7	26.8
Burner H301 North	CNEL	96.1	10	208.6	-57.4	3.6	-1.7	-1.4		0.0	0.0	42.2	0.0	6.7	48.9
Burner H301 South	CNEL	95.9	10	209.9	-57.4	3.7	-11.8	-0.9		0.0	0.3	32.8	0.0	6.7	39.5
Burner H302 North	CNEL	97.0	13	214.9	-57.6	3.7	-1.3	-2.2	-0.26	0.0	0.0	42.4	0.0	6.7	49.0
Burner H302 South	CNEL	97.0	13	216.1	-57.7	3.8	-14.6	-0.8	-0.41	0.0	0.1	30.2	0.0	6.7	36.9
Burner H303 North	CNEL	97.0	13	233.6	-58.4	4.0	-17.3	-0.9	-0.49	0.0	0.5	27.4	0.0	6.7	34.0
Burner H303 South	CNEL	97.0	13	235.6	-58.4	4.0	-22.4	-1.3	-0.06	0.0	1.8	23.5	0.0	6.7	30.2
Burner H304 North	CNEL	97.0	13	228.4	-58.2	3.9	-20.4	-1.1	-0.02	0.0	0.9	25.1	0.0	6.7	31.8
Burner H304 South	CNEL	97.0	13	230.3	-58.2	3.9	-22.8	-1.3	-0.20	0.0	1.7	23.1	0.0	6.7	29.8
Burner H305 North	CNEL	96.3	11	223.1	-58.0	3.9	-10.1	-1.0	-0.47	0.0	0.1	33.7	0.0	6.7	40.4
Burner H305 South	CNEL	96.3	11	224.8	-58.0	3.9	-22.6	-1.3	-0.27	0.0	0.1	21.1	0.0	6.7	27.8
Burner H306 North	CNEL	95.0	8	217.4	-57.7	3.8	-9.7	-1.0		0.0	0.1	33.4	0.0	6.7	40.1
Burner H306 South	CNEL	95.1	8	218.8	-57.8	3.8	-21.7	-1.2	-0.39	0.0	1.4	22.2	0.0	6.7	28.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	225.4	-58.1	3.5	-19.1	-0.6	-0.53	2.5	0.0	32.6	0.0	6.7	39.2
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	218.9	-57.8	3.4	-13.3	-0.6	-0.51	0.0	0.0	31.8	0.0	6.7	38.5
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	225.7	-58.1	3.4	-15.0	-0.5	-0.36	2.6	0.0	38.7	0.0	6.7	45.3
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	234.2	-58.4	3.6	-21.6	-0.7	-0.23	-7.7	0.2	25.8	0.0	6.7	32.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	222.2	-57.9	3.5	-21.5	-0.7	-0.47	-7.7	0.0	19.1	0.0	6.7	25.8
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	238.1	-58.5	3.6	-21.6	-0.9	-0.34	-7.8	0.2	15.0	0.0	6.7	21.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	177.2	-56.0	3.2	-13.5	-0.5		3.2	0.0	34.4	0.0	6.7	41.1
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	183.8	-56.3	3.2	-21.7	-0.8	-0.07	-7.1	0.0	15.2	0.0	6.7	21.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	167.3	-55.5	3.0	-15.5	-0.4		3.9	0.0	36.1	0.0	6.7	42.8
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	175.0	-55.9	3.1	-19.5	-0.6		-6.5	0.0	21.4	0.0	6.7	28.1
Cooling Tower M 512	CNEL	95.7		186.1	-56.4	3.8	-23.4	-0.9		0.0	0.0	18.9	0.0	6.7	25.6
Cooling Tower M 513	CNEL	95.7		186.9	-56.4	3.8	-23.2	-0.9		0.0	0.0	19.0	0.0	6.7	25.7
Cooling Tower M 514	CNEL	95.7		185.4	-56.4	3.8	-23.6	-0.9		0.0	0.0	18.7	0.0	6.7	25.3
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	338.5	-61.6	4.9	-21.0	-1.5		0.0	0.2	34.7	0.0	6.7	41.4
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	338.5	-61.6	4.3	-19.4	-1.3		0.0	0.1	35.9	0.0	6.7	42.6
CT Y-600-CT Y-600 North	CNEL	96.4	51	329.3	-61.3	4.0	-18.7	-0.8		0.0	0.0	22.6	0.0	6.7	29.3
CT Y-600-CT Y-600 South	CNEL	96.4	52	343.9	-61.7	4.1	-22.1	-1.2		0.0	0.0	18.5	0.0	6.7	25.2
Deaerator Skid P-058A&B	CNEL	96.2		219.2	-57.8	2.9	-4.8	-1.7		0.0	0.0	34.8	0.0	6.7	41.5
Exhaust Stack	CNEL	100.6		222.7	-57.9	2.8	-0.6	-0.4		0.0	0.0	44.5	0.0	6.7	51.1
F.G. After Cooler XF-083ABC	CNEL	100.2		229.4	-58.2	3.6	-11.6	-0.3		0.0	0.0	33.7	0.0	6.7	40.3
Fan Y-600	CNEL	107.5		336.3	-61.5	2.8	-21.0	-0.7		0.0	0.0	27.1	0.0	6.7	33.8
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	229.4	-58.2	2.8	-6.5	-0.2		0.0	0.0	20.4	0.0	6.7	27.0
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	229.9	-58.2	3.8	-17.3	-0.1		0.0	0.0	8.9	0.0	6.7	15.5
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	232.4	-58.3	3.8	-23.3	-1.4		0.0	0.0	-5.1	0.0	6.7	1.6
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	225.9	-58.1	3.7	-8.8	-0.1		0.0	0.0	20.4	0.0	6.7	27.1
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	232.9	-58.3	3.8	-15.7	-0.1		0.0	0.0	4.6	0.0	6.7	11.3
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	229.1	-58.2	3.7	-6.2	-0.1		0.0	0.0	20.0	0.0	6.7	26.6
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	231.0	-58.3	3.8	-12.4	-1.5		0.0	0.1	5.8	0.0	6.7	12.5
Fin Fan XF 616 - Above	CNEL	96.0	75	345.9	-61.8	2.8	-14.6	-0.5		-11.3	0.0	10.6	0.0	6.7	17.3
Fin Fan XF 616 - Below	CNEL	108.0	75	345.9	-61.8	2.8	-15.8	-0.7		-8.1	0.0	24.5	0.0	6.7	31.1
Fin Fan XF 617 - Above	CNEL	93.0	21	348.8	-61.8	2.8	-14.6	-0.5		-11.4	0.0	7.4	0.0	6.7	14.1
Fin Fan XF 617 - Below	CNEL	104.0	21	348.8	-61.8	2.8	-15.8	-0.7		-8.0	0.0	20.4	0.0	6.7	27.1
Heater # 5-Heater	CNEL	91.1	13	372.3	-62.4	4.8	-22.1	-1.0		0.0	2.2	15.5	0.0	6.7	22.2
Heater # 5-Heater	CNEL	91.1	13	370.5	-62.4	4.8	-22.1	-1.0		0.0	1.1	14.5	0.0	6.7	21.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	368.6	-62.3	4.8	-22.3	-1.1		0.0	0.0	13.2	0.0	6.7	19.8
Heater H 601	CNEL	89.1	13	369.1	-62.3	4.6	-15.6	-0.5		0.0	0.0	15.3	0.0	6.7	22.0
Hydro Heater H-402	CNEL	98.1		201.3	-57.1	3.8	-14.2	-0.4	-0.53	0.0	0.0	29.8	0.0	6.7	36.5
ID Fan	CNEL	110.3		236.0	-58.4	3.4	-17.6	-0.4		0.0	0.6	37.7	0.0	6.7	44.4
ID Fan 200 HP Motor	CNEL	104.4		236.8	-58.5	4.1	-21.8	-1.4		0.0	2.2	28.9	0.0	6.7	35.6
Incinirator Compressor & Motor	CNEL	92.5		432.0	-63.7	5.1	-13.8	-0.7		0.0	0.2	19.6	0.0	6.7	26.2
Incinirator Fin Fan	CNEL	94.8		431.7	-63.7	5.1	-13.6	-0.4		0.0	0.3	22.4	0.0	6.7	29.1
Lub Oil Cooler XF-061	CNEL	100.5		215.4	-57.7	3.9	-15.7	-0.3		0.0	0.0	30.7	0.0	6.7	37.4
Misc pumps motors	CNEL	100.2	332	141.1	-54.0	2.9	-23.6	-1.5		0.0	1.6	25.8	0.0	6.7	32.4
Motor & Pump P 56A/B	CNEL	93.7		194.3	-56.8	3.9	-20.1	-1.0	-0.46	0.0	0.3	19.5	0.0	6.7	26.2
Motor & Pump P 120/121	CNEL	96.2	2	174.2	-55.8	3.8	-19.8	-0.6	-0.07	0.0	0.2	24.0	0.0	6.7	30.6
Motor & Pump P 211/212	CNEL	93.7		225.9	-58.1	4.3	-19.9	-1.1	-0.86	0.0	0.5	18.5	0.0	6.7	25.1
Motor & Pump P 215/214	CNEL	94.6		222.4	-57.9	4.3	-19.7	-1.1	-0.83	0.0	0.8	20.1	0.0	6.7	26.8
Motor & Pump P 216	CNEL	98.3		230.1	-58.2	4.2	-19.6	-1.1	-1.03	0.0	0.1	22.7	0.0	6.7	29.3
Motor & Pump P 217/218	CNEL	93.7		224.7	-58.0	4.6	-20.0	-1.1	-0.90	0.0	0.3	18.5	0.0	6.7	25.2
Motor & Pump P 300	CNEL	97.1	2	182.9	-56.2	3.9	-19.9	-0.6		0.0	1.4	25.6	0.0	6.7	32.3
Motor & Pump P 301	CNEL	102.1	2	183.8	-56.3	3.9	-17.6	-0.6		0.0	0.9	32.5	0.0	6.7	39.1
Motor & Pump P 302	CNEL	97.1	2	181.9	-56.2	3.9	-19.1	-0.6		0.0	0.9	26.1	0.0	6.7	32.7
Motor & Pump P 303	CNEL	97.1	2	181.2	-56.2	3.8	-18.0	-0.6		0.0	0.8	27.0	0.0	6.7	33.7
Motor & Pump P 305	CNEL	97.5	2	180.4	-56.1	3.8	-21.6	-0.7		0.0	2.0	24.8	0.0	6.7	31.5
Motor & Pump P 306	CNEL	112.6	4	175.8	-55.9	3.5	-17.6	-0.7		0.0	3.1	45.0	0.0	6.7	51.7
Motor & Pump P 307	CNEL	102.1	2	186.5	-56.4	3.9	-18.6	-0.6		0.0	1.3	31.7	0.0	6.7	38.4
Motor & Pump P 309	CNEL	97.5	2	179.7	-56.1	3.8	-21.6	-0.7		0.0	1.0	23.9	0.0	6.7	30.6
Motor & Pump P 312	CNEL	101.5	2	199.6	-57.0	4.2	-15.3	-0.6	-0.29	0.0	0.0	32.6	0.0	6.7	39.3
Motor & Pump P 313	CNEL	101.5	2	200.7	-57.0	4.3	-21.3	-0.7	-0.28	0.0	0.9	27.3	0.0	6.7	34.0
Motor & Pump P 315	CNEL	102.9	2	205.1	-57.2	4.2	-21.6	-0.8	-0.29	0.0	0.2	27.3	0.0	6.7	34.0
Motor & Pump P 316	CNEL	102.9	2	206.4	-57.3	4.2	-21.7	-0.8	-0.29	0.0	0.2	27.2	0.0	6.7	33.9
Motor & Pump P 317	CNEL	102.9	2	207.7	-57.3	4.1	-21.6	-0.8	-0.29	0.0	0.4	27.5	0.0	6.7	34.1
Motor & Pump P 318	CNEL	100.2	1	203.4	-57.2	4.4	-21.6	-0.8	-0.29	0.0	0.4	25.1	0.0	6.7	31.8
Motor & Pump P 319	CNEL	100.2	1	202.5	-57.1	4.4	-21.5	-0.8	-0.29	0.0	1.5	26.4	0.0	6.7	33.0
Motor & Pump P 327	CNEL	111.2	3	172.8	-55.7	3.7	-16.4	-0.9		0.0	1.8	43.8	0.0	6.7	50.4
Motor & Pump P 328	CNEL	109.9	5	178.6	-56.0	3.6	-21.6	-0.7		0.0	1.4	36.6	0.0	6.7	43.3
Motor & Pump P 329	CNEL	110.2	5	177.2	-56.0	3.6	-21.7	-0.7		0.0	5.2	40.6	0.0	6.7	47.2
Motor & Pump P 451	CNEL	93.7		206.2	-57.3	4.0	-16.0	-1.0	-0.47	0.0	0.0	23.0	0.0	6.7	29.6
Motor & Pump P 453	CNEL	93.7		214.1	-57.6	4.1	-21.9	-1.3		0.0	0.0	17.0	0.0	6.7	23.6
Motor & Pump P 454	CNEL	93.7		206.7	-57.3	4.0	-16.5	-1.0	-0.49	0.0	0.0	22.4	0.0	6.7	29.0
Motor & Pump P 457	CNEL	93.7		215.4	-57.7	4.1	-21.4	-1.2	-0.11	0.0	0.0	17.4	0.0	6.7	24.1
Motor & Pump P 458	CNEL	93.7		205.5	-57.2	4.0	-14.4	-0.9	-0.44	0.0	0.0	24.8	0.0	6.7	31.5
Motor & Pump P 459	CNEL	93.7		205.9	-57.3	4.0	-17.0	-1.1		0.0	0.0	22.4	0.0	6.7	29.1
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		174.5	-55.8	3.8	-18.7	-0.9	-0.48	0.0	0.7	24.8	0.0	6.7	31.5
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		173.1	-55.8	3.8	-19.0	-0.9	-0.47	0.0	1.0	24.8	0.0	6.7	31.4
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		141.8	-54.0	3.4	-21.3	-0.9	-0.11	0.0	4.7	27.1	0.0	6.7	33.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		141.0	-54.0	3.4	-21.2	-0.9	-0.07	0.0	4.6	27.2	0.0	6.7	33.9
Motor & Pump P 1601 A	CNEL	96.3	2	158.2	-55.0	3.2	-16.4	-0.8		0.0	0.4	27.7	0.0	6.7	34.4
Motor & Pump P 1601 B	CNEL	96.3	2	157.5	-54.9	3.2	-16.4	-0.8		0.0	0.4	27.7	0.0	6.7	34.4
Motor & Pump P 1602 A	CNEL	96.3	2	157.1	-54.9	3.2	-16.8	-0.8		0.0	0.5	27.4	0.0	6.7	34.1
Motor & Pump P 1602 B	CNEL	96.5	2	156.4	-54.9	3.2	-17.2	-0.8		0.0	0.7	27.5	0.0	6.7	34.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.5	-55.5	3.8	-16.3	-0.8	-0.31	0.0	0.3	27.8	0.0	6.7	34.5
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.5	-55.3	3.7	-17.0	-0.9	-0.29	0.0	0.1	26.9	0.0	6.7	33.6
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	162.6	-55.2	3.7	-17.9	-0.9	-0.24	0.0	0.2	26.3	0.0	6.7	33.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	171.6	-55.7	3.8	-19.2	-0.9	-0.47	0.0	1.0	25.2	0.0	6.7	31.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	170.2	-55.6	3.8	-19.6	-0.9	-0.47	0.0	1.1	25.0	0.0	6.7	31.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	154.4	-54.8	3.7	-16.7	-0.8	-0.04	0.0	0.5	28.2	0.0	6.7	34.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	155.8	-54.8	3.7	-17.8	-0.8	-0.13	0.0	0.6	27.0	0.0	6.7	33.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	158.2	-55.0	3.6	-19.2	-0.9	-0.26	0.0	0.3	24.9	0.0	6.7	31.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	157.2	-54.9	3.7	-18.8	-0.9	-0.20	0.0	0.8	26.0	0.0	6.7	32.7
P602 100 HP	CNEL	94.1		349.9	-61.9	4.8	-20.8	-1.0		0.0	0.0	15.1	0.0	6.7	21.8
P603 60 HP	CNEL	95.0		348.2	-61.8	4.9	-21.7	-1.6		0.0	0.0	14.8	0.0	6.7	21.5
P605 40 HP	CNEL	95.0		348.6	-61.8	4.9	-21.7	-1.6		0.0	0.0	14.8	0.0	6.7	21.4
P607 15 HP	CNEL	90.5		351.6	-61.9	4.9	-20.6	-1.1		0.0	0.0	11.8	0.0	6.7	18.4
P608 15 HP	CNEL	90.5		352.4	-61.9	4.9	-20.1	-1.1		0.0	0.0	12.3	0.0	6.7	19.0
P611 15 HP	CNEL	90.5		350.6	-61.9	4.9	-21.3	-1.1		0.0	0.0	11.0	0.0	6.7	17.7
P614/615 20 HP	CNEL	93.0		341.9	-61.7	4.5	-19.4	-1.1		0.0	0.0	15.4	0.0	6.7	22.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	282.0	-60.0	4.6	-11.5	-0.5	-0.06	0.0	0.0	67.2	-38.6	0.0	28.6
Scanner Blower C-084A/B	CNEL	95.5		221.3	-57.9	3.9	-23.4	-0.9		0.0	0.0	17.3	0.0	6.7	24.0
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	220.0	-57.8	3.9	-11.1	-0.1		0.0	0.0	6.4	0.0	6.7	13.1
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	221.0	-57.9	3.9	-10.7	-0.1		0.0	0.0	5.1	0.0	6.7	11.7
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	221.7	-57.9	3.2	-9.3	-0.1		0.0	0.0	5.3	0.0	6.7	12.0
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	223.2	-58.0	3.9	-15.5	-0.1		0.0	0.0	1.9	0.0	6.7	8.5
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	223.0	-58.0	3.9	-15.6	-0.2		0.0	0.0	2.1	0.0	6.7	8.8
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	219.9	-57.8	3.7	-18.6	-0.2		0.0	0.0	7.2	0.0	6.7	13.9
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	217.7	-57.7	3.7	-11.9	-0.2		0.0	1.1	14.1	0.0	6.7	20.8
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	217.7	-57.7	3.7	-9.9	-0.2		0.0	0.0	26.0	0.0	6.7	32.7
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	217.9	-57.8	3.7	-12.0	-0.2		0.0	0.0	15.5	0.0	6.7	22.2
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	219.2	-57.8	2.8	-6.3	-0.3		0.0	0.0	23.8	0.0	6.7	30.5
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	220.7	-57.9	3.7	-17.2	-0.2		0.0	0.0	18.6	0.0	6.7	25.3
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	219.4	-57.8	3.7	-18.1	-0.2		0.0	0.0	9.0	0.0	6.7	15.7
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	218.0	-57.8	3.9	-17.9	-0.6		0.0	0.0	27.0	0.0	6.7	33.7
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	216.6	-57.7	3.9	-16.0	-0.6		0.0	0.0	34.4	0.0	6.7	41.1
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	218.2	-57.8	3.2	-12.9	-0.6		0.0	0.0	33.2	0.0	6.7	39.9
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	219.9	-57.8	3.9	-21.1	-0.8		0.0	0.1	28.9	0.0	6.7	35.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	217.4	-57.7	3.9	-21.2	-0.8		0.0	0.1	17.7	0.0	6.7	24.4
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	219.8	-57.8	3.9	-21.2	-0.8		0.0	0.1	17.8	0.0	6.7	24.5
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	220.4	-57.9	2.8	-6.9	-0.3		0.0	0.0	15.9	0.0	6.7	22.6
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	217.7	-57.7	3.7	-8.3	-0.2		0.0	0.0	9.4	0.0	6.7	16.1
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	217.6	-57.7	3.7	-11.4	-0.2		0.0	0.0	13.3	0.0	6.7	20.0
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	219.0	-57.8	3.7	-11.6	-0.2		0.0	0.0	7.5	0.0	6.7	14.2
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	221.9	-57.9	3.7	-16.2	-0.2		0.0	0.0	3.3	0.0	6.7	9.9
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	223.3	-58.0	3.7	-17.0	-0.2		0.0	0.0	7.6	0.0	6.7	14.2
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	223.4	-58.0	3.7	-17.0	-0.2		0.0	0.0	1.9	0.0	6.7	8.6
Tank Farm Pump 1	CNEL	99.0	3	236.9	-58.5	4.4	-17.5	-1.0		0.0	0.0	26.4	0.0	6.7	33.1
Tank Farm Pump 2	CNEL	99.0	3	252.7	-59.0	4.5	-15.0	-1.1		0.0	0.0	28.3	0.0	6.7	35.0
Tank Farm Pump 3	CNEL	99.0	3	257.5	-59.2	4.5	-13.8	-1.1		0.0	0.0	29.4	0.0	6.7	36.1
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	331.5	-61.4	3.8	-7.4	-3.1	-0.03	0.0	0.1	44.3	-16.8	0.0	27.5
Vaporizer Blower 1	CNEL	88.7		216.1	-57.7	4.3	-16.7	-0.6		0.0	3.9	21.9	0.0	6.7	28.6
Vaporizer Blower 2	CNEL	88.7		215.4	-57.7	4.3	-16.9	-0.6		0.0	4.1	21.9	0.0	6.7	28.6
Vaporizer Inlet Silencer	CNEL	73.7		215.5	-57.7	3.4	-12.7	-0.2		0.0	2.7	9.3	0.0	6.7	15.9
Vaporizer Motor 1	CNEL	83.6		216.1	-57.7	4.3	-17.9	-0.8		0.0	4.4	16.1	0.0	6.7	22.8
Vaporizer Motor 2	CNEL	83.6		215.4	-57.7	4.3	-18.0	-0.8		0.0	4.6	16.1	0.0	6.7	22.8
Water Treatment Pumps P-056A&B	CNEL	93.0		231.1	-58.3	4.6	-21.9	-1.1		0.0	0.0	16.3	0.0	6.7	23.0
XF-1502 Splitter Area 1	CNEL	104.5		160.1	-55.1	2.8	-16.5	-0.6	0.00	-2.9	0.1	32.3	0.0	6.7	39.0
XF-1502 Splitter Area 2	CNEL	104.5		163.1	-55.2	2.8	-15.3	-0.6		-3.0	0.0	33.2	0.0	6.7	39.9
XF-1504 Splitter Area 1	CNEL	104.5		157.5	-54.9	2.8	-20.3	-0.6	-0.01	-2.6	0.1	29.0	0.0	6.7	35.7
XF-1504 Splitter Area 2	CNEL	104.5		160.6	-55.1	2.8	-20.1	-0.6		-2.6	0.1	29.0	0.0	6.7	35.7
XF 304, XF 321	CNEL	110.5	56	189.5	-56.5	2.6	-17.2	-0.3		-1.5	0.0	37.5	0.0	6.7	44.2
XF 313, XF 314	CNEL	113.0	18	175.2	-55.9	2.6	-8.5	-0.5		-3.3	0.2	47.6	0.0	6.7	54.2
XF 335-1, XF 335-2	CNEL	113.4	54	183.2	-56.3	2.6	-10.9	-0.7	-0.03	-2.6	0.0	45.6	0.0	6.7	52.3
XF 503	CNEL	113.0	21	207.8	-57.3	2.8	-17.8	-0.8	-0.50	-2.6	0.2	36.9	0.0	6.7	43.5
XF - 1601	CNEL	96.6		158.7	-55.0	2.8	-10.2	-0.2		-1.1	0.0	32.8	0.0	6.7	39.5
XF - 1602	CNEL	96.6		155.9	-54.9	2.8	-11.8	-0.2		-1.1	0.0	31.4	0.0	6.7	38.1
XF Module 1510	CNEL	108.3		169.5	-55.6	2.8	-16.5	-0.7	-0.20	-2.9	0.0	35.4	0.0	6.7	42.0
XF Module 1519	CNEL	109.0		165.3	-55.4	2.8	-17.8	-0.7	-0.17	-2.8	0.1	35.1	0.0	6.7	41.8
xxxx xxxx xxxx xxxx	CNEL		606								9.0				34.9
xxxx xxxx xxxx xxxx	CNEL		606								8.6				34.8
xxxx xxxx xxxx xxxx	CNEL		917								4.7				23.5
xxxx xxxx xxxx xxxx	CNEL		917								4.9				24.0
xxxx xxxx xxxx xxxx	CNEL		608								4.0				36.3
xxxx xxxx xxxx xxxx	CNEL		608								4.1				36.3
xxxx xxxx xxxx xxxx	CNEL		1172								7.4				38.9
xxxx xxxx xxxx xxxx	CNEL		520								3.2				35.8
xxxx xxxx xxxx xxxx	CNEL		572								4.2				46.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 55.5 dB(A)			Ld 7-19 dB(A)		Leq,N 55.4 dB(A)		Le 19-22 dB(A)		CNEL 62.1 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	216.5	-57.7	2.9	-6.7	0.0		0.0	0.0	31.9	0.0	6.7	38.6
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	289.0	-60.2	4.5	-10.8	-2.5	-0.02	0.0	0.0	40.1	-10.8	0.0	29.3
Air Compressor C 1	CNEL	110.0	5	187.3	-56.4	3.9	-21.0	-0.5		0.0	1.8	37.7	0.0	6.7	44.4
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		233.5	-58.4	4.2	-23.9	-2.4		0.0	0.4	20.3	0.0	6.7	26.9
Asphalt Production	CNEL	113.8	1206	262.5	-59.4	3.5	-20.9	-1.4		0.0	0.0	35.7	0.0	6.7	42.4
BFW Pumps P-073A&B	CNEL	95.8		234.7	-58.4	4.4	-23.6	-1.4		0.0	0.2	17.0	0.0	6.7	23.7
Blower F 401	CNEL	113.0		251.6	-59.0	4.0	-13.8	-0.3	-0.30	0.0	0.0	43.5	0.0	6.7	50.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	367.0	-62.3	4.7	-18.6	-0.8		0.0	0.6	22.2	0.0	6.7	28.8
Brine Transfer P-085	CNEL	96.2		238.3	-58.5	4.7	-23.6	-1.4		0.0	0.4	17.8	0.0	6.7	24.4
Burner H301 North	CNEL	96.1	10	230.1	-58.2	3.8	-2.0	-1.4		0.0	0.0	41.3	0.0	6.7	48.0
Burner H301 South	CNEL	95.9	10	231.2	-58.3	3.8	-11.3	-1.0		0.0	0.5	32.8	0.0	6.7	39.5
Burner H302 North	CNEL	97.0	13	235.9	-58.4	3.9	-1.6	-2.3	-0.34	0.0	0.0	41.2	0.0	6.7	47.9
Burner H302 South	CNEL	97.0	13	237.0	-58.5	3.9	-18.2	-1.0	-0.40	0.0	0.1	25.8	0.0	6.7	32.5
Burner H303 North	CNEL	97.0	13	253.1	-59.1	4.1	-19.0	-1.0	-0.48	0.0	0.7	25.2	0.0	6.7	31.9
Burner H303 South	CNEL	97.0	13	254.9	-59.1	4.1	-22.4	-1.4	-0.07	0.0	1.8	22.9	0.0	6.7	29.6
Burner H304 North	CNEL	97.0	13	248.3	-58.9	4.0	-19.7	-1.1	-0.02	0.0	0.8	25.1	0.0	6.7	31.8
Burner H304 South	CNEL	97.0	13	250.0	-59.0	4.0	-22.4	-1.4	-0.26	0.0	0.7	21.7	0.0	6.7	28.4
Burner H305 North	CNEL	96.3	11	243.3	-58.7	4.0	-17.7	-0.9	-0.46	0.0	0.6	26.1	0.0	6.7	32.8
Burner H305 South	CNEL	96.3	11	244.9	-58.8	4.0	-22.7	-1.4	-0.04	0.0	0.5	20.9	0.0	6.7	27.6
Burner H306 North	CNEL	95.0	8	238.0	-58.5	3.9	-15.8	-0.9	-0.02	0.0	0.3	27.0	0.0	6.7	33.6
Burner H306 South	CNEL	95.1	8	239.2	-58.6	3.9	-21.9	-1.3	-0.23	0.0	0.4	20.5	0.0	6.7	27.1
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	242.1	-58.7	3.6	-18.8	-0.6	-0.64	2.3	0.0	32.0	0.0	6.7	38.7
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	235.7	-58.4	3.5	-17.0	-0.7	-0.53	0.0	0.0	27.5	0.0	6.7	34.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	243.1	-58.7	3.6	-16.4	-0.5	-0.33	2.8	0.0	37.0	0.0	6.7	43.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	251.2	-59.0	3.7	-20.9	-0.7	-0.27	-7.5	0.0	26.0	0.0	6.7	32.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	239.0	-58.6	3.6	-20.9	-0.7	-0.55	-7.6	0.0	19.1	0.0	6.7	25.8
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.7	-59.1	3.7	-20.6	-0.9	-0.11	-7.8	0.0	15.5	0.0	6.7	22.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	189.5	-56.5	3.4	-15.9	-0.5		2.9	1.3	32.5	0.0	6.7	39.1
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	197.1	-56.9	3.3	-20.4	-0.7	-0.04	-7.5	0.0	15.7	0.0	6.7	22.3
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	177.1	-56.0	3.0	-8.5	-0.7		3.2	0.0	41.7	0.0	6.7	48.3
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	186.6	-56.4	3.2	-18.6	-0.6		-7.1	0.0	21.1	0.0	6.7	27.7
Cooling Tower M 512	CNEL	95.7		198.5	-56.9	3.9	-22.9	-0.9		0.0	0.0	18.8	0.0	6.7	25.5
Cooling Tower M 513	CNEL	95.7		199.4	-57.0	3.9	-23.1	-0.9		0.0	0.0	18.6	0.0	6.7	25.2
Cooling Tower M 514	CNEL	95.7		197.7	-56.9	3.9	-22.9	-0.9		0.0	0.0	18.9	0.0	6.7	25.6
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	329.6	-61.4	4.8	-11.2	-2.7		0.0	0.2	43.5	0.0	6.7	50.2
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	329.6	-61.4	4.3	-8.6	-2.6		0.0	0.1	45.5	0.0	6.7	52.2
CT Y-600-CT Y-600 North	CNEL	96.4	51	324.3	-61.2	4.0	-17.2	-0.8		0.0	0.0	24.2	0.0	6.7	30.9
CT Y-600-CT Y-600 South	CNEL	96.4	52	339.1	-61.6	4.1	-22.1	-1.2		0.0	0.0	18.6	0.0	6.7	25.2
Deaerator Skid P-058A&B	CNEL	96.2		222.7	-57.9	2.9	-17.5	-0.9		0.0	0.0	22.8	0.0	6.7	29.5
Exhaust Stack	CNEL	100.6		228.2	-58.2	2.8	-0.6	-0.4		0.0	0.0	44.2	0.0	6.7	50.9
F.G. After Cooler XF-083ABC	CNEL	100.2		230.4	-58.2	3.6	-20.0	-0.4		0.0	0.0	25.1	0.0	6.7	31.8
Fan Y-600	CNEL	107.5		331.3	-61.4	2.8	-21.1	-0.7		0.0	0.0	27.1	0.0	6.7	33.8
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	229.4	-58.2	2.8	-13.3	-0.1		0.0	0.0	13.6	0.0	6.7	20.3
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	229.0	-58.2	3.7	-14.5	-0.1		0.0	0.0	11.7	0.0	6.7	18.3
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	231.8	-58.3	3.8	-22.0	-1.1		0.0	0.0	-3.5	0.0	6.7	3.1
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	226.0	-58.1	3.7	-14.6	-0.1		0.0	0.0	14.7	0.0	6.7	21.4
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	232.9	-58.3	3.7	-18.3	-0.1		0.0	0.0	2.0	0.0	6.7	8.7
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	229.8	-58.2	3.7	-17.5	-0.1		0.0	0.0	8.7	0.0	6.7	15.3
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	231.7	-58.3	3.7	-23.3	-1.4		0.0	0.0	-5.1	0.0	6.7	1.6
Fin Fan XF 616 - Above	CNEL	96.0	75	339.2	-61.6	2.8	-11.8	-0.5		-11.3	0.0	13.6	0.0	6.7	20.2
Fin Fan XF 616 - Below	CNEL	108.0	75	339.2	-61.6	2.8	-12.7	-0.7		-8.0	0.0	27.8	0.0	6.7	34.5
Fin Fan XF 617 - Above	CNEL	93.0	21	341.5	-61.7	2.8	-10.9	-0.5		-11.5	0.0	11.2	0.0	6.7	17.9
Fin Fan XF 617 - Below	CNEL	104.0	21	341.4	-61.7	2.8	-11.8	-0.7		-8.0	0.0	24.7	0.0	6.7	31.4
Heater # 5-Heater	CNEL	91.1	13	364.5	-62.2	4.8	-21.5	-1.0		0.0	2.1	16.2	0.0	6.7	22.9
Heater # 5-Heater	CNEL	91.1	13	362.9	-62.2	4.8	-21.6	-1.0		0.0	1.4	15.4	0.0	6.7	22.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	361.4	-62.2	4.8	-21.8	-1.0		0.0	0.2	14.1	0.0	6.7	20.7
Heater H 601	CNEL	89.1	13	362.3	-62.2	4.6	-15.7	-0.5		0.0	0.0	15.3	0.0	6.7	21.9
Hydro Heater H-402	CNEL	98.1		215.7	-57.7	3.9	-14.2	-0.4	-0.47	0.0	0.0	29.3	0.0	6.7	36.0
ID Fan	CNEL	110.3		256.6	-59.2	3.5	-20.3	-0.5	-0.22	0.0	0.8	34.4	0.0	6.7	41.1
ID Fan 200 HP Motor	CNEL	104.4		257.3	-59.2	4.2	-23.3	-1.8		0.0	2.7	26.9	0.0	6.7	33.6
Incinirator Compressor & Motor	CNEL	92.5		421.6	-63.5	5.1	-3.7	-1.5		0.0	0.1	28.9	0.0	6.7	35.6
Incinirator Fin Fan	CNEL	94.8		421.4	-63.5	5.0	-4.8	-1.7		0.0	0.0	29.9	0.0	6.7	36.6
Lub Oil Cooler XF-061	CNEL	100.5		218.4	-57.8	3.9	-20.7	-0.4		0.0	2.3	27.8	0.0	6.7	34.5
Misc pumps motors	CNEL	100.2	332	137.6	-53.8	2.9	-23.8	-1.5		0.0	0.2	24.2	0.0	6.7	30.9
Motor & Pump P 56A/B	CNEL	93.7		210.1	-57.4	4.0	-21.3	-1.1	-0.55	0.0	0.0	17.3	0.0	6.7	24.0
Motor & Pump P 120/121	CNEL	96.2	2	193.2	-56.7	3.9	-20.4	-0.7	-0.11	0.0	0.7	22.9	0.0	6.7	29.6
Motor & Pump P 211/212	CNEL	93.7		241.5	-58.6	4.4	-20.7	-1.2	-1.00	0.0	0.6	17.1	0.0	6.7	23.8
Motor & Pump P 215/214	CNEL	94.6		238.2	-58.5	4.4	-20.7	-1.2	-0.92	0.0	0.2	17.8	0.0	6.7	24.5
Motor & Pump P 216	CNEL	98.3		246.0	-58.8	4.3	-20.5	-1.2	-0.98	0.0	0.4	21.5	0.0	6.7	28.2
Motor & Pump P 217/218	CNEL	93.7		240.3	-58.6	4.6	-20.8	-1.2	-1.01	0.0	0.0	16.6	0.0	6.7	23.3
Motor & Pump P 300	CNEL	97.1	2	202.4	-57.1	4.1	-18.8	-0.7		0.0	0.9	25.4	0.0	6.7	32.1
Motor & Pump P 301	CNEL	102.1	2	203.2	-57.2	4.1	-19.8	-0.7		0.0	0.9	29.4	0.0	6.7	36.1
Motor & Pump P 302	CNEL	97.1	2	201.6	-57.1	4.0	-18.6	-0.7		0.0	0.9	25.7	0.0	6.7	32.4
Motor & Pump P 303	CNEL	97.1	2	200.9	-57.1	4.0	-18.4	-0.7		0.0	0.4	25.3	0.0	6.7	32.0
Motor & Pump P 305	CNEL	97.5	2	200.2	-57.0	4.0	-20.4	-0.7		0.0	0.2	23.4	0.0	6.7	30.1
Motor & Pump P 306	CNEL	112.6	4	196.1	-56.8	3.6	-21.9	-1.0		0.0	7.0	43.5	0.0	6.7	50.2
Motor & Pump P 307	CNEL	102.1	2	205.7	-57.3	4.1	-19.8	-0.7	0.00	0.0	1.4	29.9	0.0	6.7	36.5
Motor & Pump P 309	CNEL	97.5	2	199.6	-57.0	4.0	-22.3	-0.8		0.0	0.2	21.5	0.0	6.7	28.2
Motor & Pump P 312	CNEL	101.5	2	217.6	-57.7	4.3	-19.4	-0.7	-0.27	0.0	0.0	27.6	0.0	6.7	34.3
Motor & Pump P 313	CNEL	101.5	2	218.7	-57.8	4.4	-19.0	-0.8	-0.27	0.0	0.3	28.3	0.0	6.7	35.0
Motor & Pump P 315	CNEL	102.9	2	222.7	-57.9	4.3	-20.9	-0.8	-0.27	0.0	0.0	27.2	0.0	6.7	33.9
Motor & Pump P 316	CNEL	102.9	2	223.9	-58.0	4.3	-21.3	-0.8	-0.28	0.0	0.0	26.7	0.0	6.7	33.4
Motor & Pump P 317	CNEL	102.9	2	225.1	-58.0	4.2	-21.2	-0.8	-0.28	0.0	0.0	26.9	0.0	6.7	33.5
Motor & Pump P 318	CNEL	100.2	1	221.1	-57.9	4.4	-20.6	-0.8	-0.28	0.0	1.2	26.3	0.0	6.7	32.9
Motor & Pump P 319	CNEL	100.2	1	220.2	-57.8	4.4	-20.1	-0.8	-0.27	0.0	0.7	26.3	0.0	6.7	33.0
Motor & Pump P 327	CNEL	111.2	3	193.4	-56.7	3.9	-22.6	-1.2		0.0	1.3	35.9	0.0	6.7	42.5
Motor & Pump P 328	CNEL	109.9	5	198.6	-57.0	3.8	-22.4	-0.8		0.0	0.2	33.7	0.0	6.7	40.4
Motor & Pump P 329	CNEL	110.2	5	197.3	-56.9	3.7	-22.8	-0.8		0.0	2.6	36.0	0.0	6.7	42.6
Motor & Pump P 451	CNEL	93.7		220.1	-57.8	4.1	-19.9	-1.1	-0.30	0.0	0.0	18.7	0.0	6.7	25.4
Motor & Pump P 453	CNEL	93.7		227.3	-58.1	4.2	-21.3	-1.2		0.0	0.0	17.2	0.0	6.7	23.9
Motor & Pump P 454	CNEL	93.7		220.8	-57.9	4.1	-18.3	-1.0	-0.35	0.0	0.0	20.3	0.0	6.7	26.9
Motor & Pump P 457	CNEL	93.7		228.5	-58.2	4.2	-21.2	-1.2		0.0	0.0	17.2	0.0	6.7	23.9
Motor & Pump P 458	CNEL	93.7		219.4	-57.8	4.1	-19.9	-1.1	-0.27	0.0	0.0	18.7	0.0	6.7	25.4
Motor & Pump P 459	CNEL	93.7		220.0	-57.8	4.1	-18.2	-1.0	-0.37	0.0	0.0	20.3	0.0	6.7	27.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		189.1	-56.5	3.9	-18.7	-1.0	-0.09	0.0	0.8	24.6	0.0	6.7	31.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		187.9	-56.5	3.9	-18.6	-1.0	-0.08	0.0	0.8	24.8	0.0	6.7	31.4
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		158.2	-55.0	3.6	-23.4	-1.2	-0.12	0.0	1.6	21.0	0.0	6.7	27.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		157.5	-54.9	3.6	-23.3	-1.2	-0.08	0.0	0.1	19.6	0.0	6.7	26.2
Motor & Pump P 1601 A	CNEL	96.3	2	170.5	-55.6	3.4	-20.9	-1.0		0.0	1.4	23.5	0.0	6.7	30.2
Motor & Pump P 1601 B	CNEL	96.3	2	169.6	-55.6	3.4	-20.9	-1.0		0.0	1.4	23.6	0.0	6.7	30.2
Motor & Pump P 1602 A	CNEL	96.3	2	169.1	-55.6	3.4	-19.8	-0.9		0.0	1.1	24.5	0.0	6.7	31.2
Motor & Pump P 1602 B	CNEL	96.5	2	168.2	-55.5	3.3	-19.6	-0.9		0.0	1.0	24.9	0.0	6.7	31.6
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	182.4	-56.2	3.9	-20.5	-1.0	-0.26	0.0	0.0	22.6	0.0	6.7	29.2
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	178.8	-56.0	3.9	-18.6	-0.9	-0.25	0.0	0.0	24.6	0.0	6.7	31.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	177.0	-56.0	3.9	-18.5	-0.9	-0.25	0.0	0.0	24.9	0.0	6.7	31.5
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	186.4	-56.4	3.9	-20.2	-1.0	-0.37	0.0	1.1	23.8	0.0	6.7	30.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	185.1	-56.3	3.9	-22.0	-1.1	-0.42	0.0	1.0	21.7	0.0	6.7	28.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	168.6	-55.5	3.8	-18.8	-0.9	-0.03	0.0	0.7	25.5	0.0	6.7	32.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	170.2	-55.6	3.8	-18.6	-0.9	-0.10	0.0	0.6	25.5	0.0	6.7	32.2
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	173.0	-55.8	3.8	-20.8	-1.0	-0.23	0.0	1.1	23.4	0.0	6.7	30.0
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.7	-55.7	3.8	-20.5	-1.1	-0.20	0.0	1.0	23.7	0.0	6.7	30.3
P602 100 HP	CNEL	94.1		343.5	-61.7	4.8	-19.3	-1.0		0.0	0.0	16.8	0.0	6.7	23.5
P603 60 HP	CNEL	95.0		342.3	-61.7	4.8	-22.1	-1.6		0.0	0.0	14.5	0.0	6.7	21.2
P605 40 HP	CNEL	95.0		342.6	-61.7	4.8	-22.0	-1.6		0.0	0.0	14.7	0.0	6.7	21.3
P607 15 HP	CNEL	90.5		344.9	-61.7	4.9	-20.5	-1.1		0.0	0.0	12.0	0.0	6.7	18.7
P608 15 HP	CNEL	90.5		345.6	-61.8	4.9	-20.4	-1.1		0.0	0.0	12.1	0.0	6.7	18.8
P611 15 HP	CNEL	90.5		344.2	-61.7	4.9	-21.1	-1.1		0.0	0.0	11.5	0.0	6.7	18.1
P614/615 20 HP	CNEL	93.0		335.5	-61.5	4.4	-19.1	-1.1		0.0	0.0	15.7	0.0	6.7	22.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	291.9	-60.3	4.6	-11.8	-0.6	-0.06	0.0	0.0	66.5	-38.6	0.0	28.0
Scanner Blower C-084A/B	CNEL	95.5		224.5	-58.0	4.0	-24.2	-1.0		0.0	0.0	16.2	0.0	6.7	22.9
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	225.1	-58.0	3.9	-13.8	-0.1		0.0	0.0	3.5	0.0	6.7	10.2
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	226.4	-58.1	3.9	-8.5	-0.2		0.0	0.0	7.0	0.0	6.7	13.7
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	226.9	-58.1	3.2	-10.9	-0.2		0.0	0.0	3.6	0.0	6.7	10.2
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	228.3	-58.2	3.9	-17.9	-0.1		0.0	0.0	-0.8	0.0	6.7	5.9
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	228.4	-58.2	3.9	-16.1	-0.2		0.0	0.0	1.4	0.0	6.7	8.0
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	222.9	-58.0	3.7	-20.3	-0.2		0.0	0.0	5.4	0.0	6.7	12.0
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	220.7	-57.9	3.7	-17.9	-0.2		0.0	1.0	7.9	0.0	6.7	14.6
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	221.2	-57.9	3.7	-17.8	-0.2		0.0	0.0	18.0	0.0	6.7	24.6
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	220.9	-57.9	3.7	-18.1	-0.2		0.0	0.0	9.3	0.0	6.7	16.0
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	222.6	-57.9	2.8	-15.7	-0.2		0.0	0.0	14.5	0.0	6.7	21.1
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	224.2	-58.0	3.7	-20.5	-0.2		0.0	0.0	15.1	0.0	6.7	21.8
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	222.3	-57.9	3.7	-20.6	-0.2		0.0	0.0	6.4	0.0	6.7	13.1
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	219.7	-57.8	3.9	-21.9	-0.9		0.0	0.2	22.8	0.0	6.7	29.5
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	218.9	-57.8	3.9	-21.9	-0.9		0.0	0.1	28.1	0.0	6.7	34.8
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	220.5	-57.9	3.2	-21.3	-0.8		0.0	0.3	24.9	0.0	6.7	31.5
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	222.2	-57.9	3.9	-23.3	-1.1		0.0	0.1	26.3	0.0	6.7	33.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	220.3	-57.9	3.9	-23.3	-1.1		0.0	0.1	15.2	0.0	6.7	21.9
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	222.7	-57.9	3.9	-23.3	-1.1		0.0	0.0	15.2	0.0	6.7	21.8
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	224.9	-58.0	2.8	-14.2	-0.1		0.0	0.0	8.5	0.0	6.7	15.2
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	221.7	-57.9	3.7	-16.3	-0.1		0.0	0.0	1.2	0.0	6.7	7.9
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	222.1	-57.9	3.7	-17.0	-0.2		0.0	0.0	7.5	0.0	6.7	14.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	223.9	-58.0	3.7	-16.6	-0.2		0.0	0.0	2.3	0.0	6.7	9.0
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	225.8	-58.1	3.7	-20.1	-0.2		0.0	0.0	-0.8	0.0	6.7	5.9
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	227.7	-58.1	3.8	-19.8	-0.2		0.0	0.0	4.7	0.0	6.7	11.3
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	228.3	-58.2	3.8	-19.3	-0.2		0.0	0.0	-0.6	0.0	6.7	6.1
Tank Farm Pump 1	CNEL	99.0	3	221.0	-57.9	4.3	-17.4	-1.0		0.0	0.0	27.1	0.0	6.7	33.8
Tank Farm Pump 2	CNEL	99.0	3	235.8	-58.4	4.4	-19.4	-1.0		0.0	0.0	24.5	0.0	6.7	31.2
Tank Farm Pump 3	CNEL	99.0	3	240.3	-58.6	4.4	-19.1	-1.0		0.0	0.0	24.7	0.0	6.7	31.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	347.5	-61.8	3.9	-7.4	-3.5	-0.03	0.0	0.3	43.8	-16.8	0.0	27.0
Vaporizer Blower 1	CNEL	88.7		219.6	-57.8	4.3	-23.1	-0.8		0.0	2.4	13.7	0.0	6.7	20.3
Vaporizer Blower 2	CNEL	88.7		218.9	-57.8	4.3	-23.1	-0.8		0.0	3.1	14.3	0.0	6.7	21.0
Vaporizer Inlet Silencer	CNEL	73.7		218.8	-57.8	3.4	-18.4	-0.3		0.0	2.4	3.0	0.0	6.7	9.7
Vaporizer Motor 1	CNEL	83.6		219.7	-57.8	4.3	-23.7	-1.1		0.0	3.3	8.6	0.0	6.7	15.2
Vaporizer Motor 2	CNEL	83.6		219.0	-57.8	4.3	-23.7	-1.1		0.0	3.4	8.7	0.0	6.7	15.3
Water Treatment Pumps P-056A&B	CNEL	93.0		235.6	-58.4	4.6	-23.8	-1.4		0.0	0.0	14.0	0.0	6.7	20.7
XF-1502 Splitter Area 1	CNEL	104.5		174.4	-55.8	2.8	-13.0	-0.7	0.00	-3.0	0.0	34.8	0.0	6.7	41.4
XF-1502 Splitter Area 2	CNEL	104.5		177.2	-56.0	2.8	-13.2	-0.7		-3.0	0.0	34.5	0.0	6.7	41.1
XF-1504 Splitter Area 1	CNEL	104.5		171.5	-55.7	2.8	-14.1	-0.6	-0.01	-2.8	0.0	34.1	0.0	6.7	40.8
XF-1504 Splitter Area 2	CNEL	104.5		174.3	-55.8	2.8	-13.7	-0.6		-2.9	0.0	34.3	0.0	6.7	41.0
XF 304, XF 321	CNEL	110.5	56	209.1	-57.4	2.6	-17.0	-0.3		-1.6	0.0	36.8	0.0	6.7	43.5
XF 313, XF 314	CNEL	113.0	18	196.2	-56.8	2.5	-8.2	-0.6		-3.3	0.1	46.7	0.0	6.7	53.4
XF 335-1, XF 335-2	CNEL	113.4	54	203.4	-57.2	2.6	-17.5	-0.4	0.00	-1.7	0.0	39.2	0.0	6.7	45.8
XF 503	CNEL	113.0	21	223.9	-58.0	2.8	-14.3	-0.8	-0.51	-3.0	0.0	39.2	0.0	6.7	45.8
XF - 1601	CNEL	96.6		170.6	-55.6	2.7	-7.7	-0.3		-1.2	0.0	34.5	0.0	6.7	41.2
XF - 1602	CNEL	96.6		167.2	-55.5	2.8	-9.0	-0.3		-1.1	0.0	33.6	0.0	6.7	40.2
XF Module 1510	CNEL	108.3		183.9	-56.3	2.8	-13.1	-0.7	-0.25	-3.0	0.0	37.8	0.0	6.7	44.5
XF Module 1519	CNEL	109.0		179.9	-56.1	2.8	-12.9	-0.7	-0.02	-3.3	0.0	38.8	0.0	6.7	45.4
xxxx xxxx xxxx xxxx	CNEL		606								10.9				34.0
xxxx xxxx xxxx xxxx	CNEL		606								10.7				34.0
xxxx xxxx xxxx xxxx	CNEL		917								3.5				27.1
xxxx xxxx xxxx xxxx	CNEL		917								3.2				26.9
xxxx xxxx xxxx xxxx	CNEL		608								4.4				35.8
xxxx xxxx xxxx xxxx	CNEL		608								4.5				35.7
xxxx xxxx xxxx xxxx	CNEL		1172								5.1				43.3
xxxx xxxx xxxx xxxx	CNEL		520								8.7				34.4
xxxx xxxx xxxx xxxx	CNEL		572								4.0				46.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 56.7 dB(A)			Ld 7-19 dB(A)		Leq,N 56.6 dB(A)		Le 19-22 dB(A)		CNEL 63.3 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	220.4	-57.9	2.9	-8.7	0.0		0.0	0.0	29.8	0.0	6.7	36.5
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	297.8	-60.5	4.6	-16.3	-1.2	-0.12	0.0	0.0	35.5	-10.8	0.0	24.7
Air Compressor C 1	CNEL	110.0	5	207.4	-57.3	4.0	-22.2	-0.7		0.0	2.7	36.6	0.0	6.7	43.2
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		237.9	-58.5	4.3	-23.9	-2.4		0.0	0.0	19.7	0.0	6.7	26.3
Asphalt Production	CNEL	113.8	1206	260.9	-59.3	3.5	-15.3	-1.3		0.0	0.0	41.5	0.0	6.7	48.1
BFW Pumps P-073A&B	CNEL	95.8		240.0	-58.6	4.4	-23.7	-1.4		0.0	0.0	16.5	0.0	6.7	23.2
Blower F 401	CNEL	113.0		265.8	-59.5	4.0	-15.4	-0.3	-0.28	0.0	0.0	41.5	0.0	6.7	48.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	360.6	-62.1	4.7	-10.8	-0.7		0.0	0.9	30.6	0.0	6.7	37.2
Brine Transfer P-085	CNEL	96.2		244.8	-58.8	4.7	-23.9	-1.5		0.0	0.6	17.4	0.0	6.7	24.1
Burner H301 North	CNEL	96.1	10	251.6	-59.0	3.9	-2.2	-1.5		0.0	0.0	40.2	0.0	6.7	46.9
Burner H301 South	CNEL	95.9	10	252.6	-59.0	3.9	-10.9	-1.0		0.0	0.2	32.1	0.0	6.7	38.7
Burner H302 North	CNEL	97.0	13	256.9	-59.2	4.0	-10.1	-1.0	-0.40	0.0	0.0	33.4	0.0	6.7	40.0
Burner H302 South	CNEL	97.0	13	257.9	-59.2	4.0	-21.9	-1.3	-0.33	0.0	0.0	21.3	0.0	6.7	28.0
Burner H303 North	CNEL	97.0	13	272.8	-59.7	4.2	-17.2	-0.9	-0.52	0.0	0.5	26.3	0.0	6.7	33.0
Burner H303 South	CNEL	97.0	13	274.5	-59.8	4.2	-23.1	-1.6	-0.07	0.0	2.9	22.6	0.0	6.7	29.3
Burner H304 North	CNEL	97.0	13	268.4	-59.6	4.1	-19.9	-1.2	-0.08	0.0	0.7	24.1	0.0	6.7	30.8
Burner H304 South	CNEL	97.0	13	269.9	-59.6	4.2	-21.5	-1.3	-0.08	0.0	0.3	21.9	0.0	6.7	28.6
Burner H305 North	CNEL	96.3	11	263.7	-59.4	4.1	-19.4	-1.0	-0.39	0.0	0.8	23.9	0.0	6.7	30.6
Burner H305 South	CNEL	96.3	11	265.1	-59.5	4.1	-22.3	-1.4	-0.09	0.0	0.0	20.2	0.0	6.7	26.9
Burner H306 North	CNEL	95.0	8	258.7	-59.2	4.0	-18.6	-1.1	-0.16	0.0	0.5	23.4	0.0	6.7	30.1
Burner H306 South	CNEL	95.1	8	259.8	-59.3	4.1	-22.7	-1.4	-0.09	0.0	0.5	19.2	0.0	6.7	25.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	259.5	-59.3	3.7	-19.1	-0.6	-0.70	2.1	0.0	30.9	0.0	6.7	37.5
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	253.2	-59.1	3.7	-16.6	-0.6	-0.56	0.0	0.0	27.4	0.0	6.7	34.1
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	261.1	-59.3	3.7	-14.7	-0.5	-0.30	3.0	0.0	38.4	0.0	6.7	45.0
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	268.8	-59.6	3.8	-21.0	-0.7	-0.61	-7.3	0.0	25.2	0.0	6.7	31.9
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	256.4	-59.2	3.7	-20.0	-0.7	-0.82	-7.3	0.0	19.5	0.0	6.7	26.1
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	273.9	-59.7	3.8	-21.0	-0.9	-0.30	-7.8	0.0	14.5	0.0	6.7	21.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	203.3	-57.2	3.4	-13.8	-0.5		2.6	0.0	32.5	0.0	6.7	39.1
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	211.8	-57.5	3.5	-19.1	-0.7	-0.02	-7.7	0.0	16.4	0.0	6.7	23.1
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	188.8	-56.5	3.0	-2.8	-1.7		2.9	0.0	45.5	0.0	6.7	52.2
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	199.8	-57.0	3.2	-21.0	-0.7		-7.6	1.9	19.5	0.0	6.7	26.1
Cooling Tower M 512	CNEL	95.7		212.4	-57.5	4.0	-21.6	-0.9		0.0	0.0	19.8	0.0	6.7	26.4
Cooling Tower M 513	CNEL	95.7		213.4	-57.6	4.0	-21.8	-0.9		0.0	0.0	19.4	0.0	6.7	26.1
Cooling Tower M 514	CNEL	95.7		211.5	-57.5	4.0	-21.2	-0.9		0.0	0.1	20.2	0.0	6.7	26.9
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	322.0	-61.1	4.8	-6.2	-2.6		0.0	0.2	48.8	0.0	6.7	55.5
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	321.9	-61.1	4.2	-4.3	-2.8		0.0	0.2	49.8	0.0	6.7	56.5
CT Y-600-CT Y-600 North	CNEL	96.4	51	320.6	-61.1	4.0	-8.6	-0.8		0.0	0.0	32.9	0.0	6.7	39.5
CT Y-600-CT Y-600 South	CNEL	96.4	52	335.6	-61.5	4.0	-18.4	-0.9		0.0	0.0	22.6	0.0	6.7	29.3
Deaerator Skid P-058A&B	CNEL	96.2		228.1	-58.2	2.9	-21.8	-1.1		0.0	0.0	18.1	0.0	6.7	24.8
Exhaust Stack	CNEL	100.6		235.5	-58.4	2.8	-11.2	-0.3		0.0	0.0	33.5	0.0	6.7	40.2
F.G. After Cooler XF-083ABC	CNEL	100.2		233.4	-58.4	3.6	-19.9	-0.4		0.0	0.0	25.2	0.0	6.7	31.8
Fan Y-600	CNEL	107.5		327.7	-61.3	2.9	-15.9	-0.6		0.0	0.0	32.5	0.0	6.7	39.2
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	231.4	-58.3	2.8	-13.0	-0.1		0.0	0.0	13.8	0.0	6.7	20.5
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	230.4	-58.2	3.7	-14.2	-0.1		0.0	0.0	12.0	0.0	6.7	18.6
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	233.2	-58.3	3.8	-21.1	-1.0		0.0	0.9	-1.7	0.0	6.7	5.0
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	228.0	-58.2	3.7	-14.3	-0.1		0.0	0.0	14.9	0.0	6.7	21.6
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	234.9	-58.4	3.7	-17.8	-0.1		0.0	0.0	2.4	0.0	6.7	9.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	232.5	-58.3	3.7	-17.7	-0.1		0.0	0.0	8.4	0.0	6.7	15.1
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	234.3	-58.4	3.7	-23.3	-1.5		0.0	0.6	-4.8	0.0	6.7	1.9
Fin Fan XF 616 - Above	CNEL	96.0	75	333.8	-61.5	2.8	-1.8	-0.9		-11.4	0.0	23.1	0.0	6.7	29.8
Fin Fan XF 616 - Below	CNEL	108.0	75	333.7	-61.5	2.8	-1.7	-1.4		-8.0	0.0	38.3	0.0	6.7	45.0
Fin Fan XF 617 - Above	CNEL	93.0	21	335.1	-61.5	2.8	-1.7	-0.9		-11.6	0.0	20.1	0.0	6.7	26.8
Fin Fan XF 617 - Below	CNEL	104.0	21	335.1	-61.5	2.8	-1.6	-1.4		-7.9	0.0	34.4	0.0	6.7	41.1
Heater # 5-Heater	CNEL	91.1	13	357.8	-62.1	4.7	-17.0	-0.7		0.0	4.4	23.4	0.0	6.7	30.1
Heater # 5-Heater	CNEL	91.1	13	356.5	-62.0	4.7	-16.6	-0.7		0.0	2.8	22.4	0.0	6.7	29.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	355.3	-62.0	4.7	-16.0	-0.7		0.0	0.0	20.2	0.0	6.7	26.9
Heater H 601	CNEL	89.1	13	356.5	-62.0	4.6	-3.2	-1.5		0.0	0.0	26.9	0.0	6.7	33.6
Hydro Heater H-402	CNEL	98.1		231.2	-58.3	4.0	-14.2	-0.4	-0.41	0.0	0.0	28.9	0.0	6.7	35.6
ID Fan	CNEL	110.3		277.3	-59.9	3.7	-20.3	-0.6		0.0	0.3	33.5	0.0	6.7	40.2
ID Fan 200 HP Motor	CNEL	104.4		278.0	-59.9	4.2	-23.4	-1.9		0.0	2.9	26.3	0.0	6.7	33.0
Incinirator Compressor & Motor	CNEL	92.5		412.0	-63.3	5.1	-6.1	-0.8		0.0	0.0	27.4	0.0	6.7	34.0
Incinirator Fin Fan	CNEL	94.8		411.9	-63.3	5.0	-6.6	-0.6		0.0	0.0	29.3	0.0	6.7	36.0
Lub Oil Cooler XF-061	CNEL	100.5		223.4	-58.0	4.0	-20.9	-0.4		0.0	2.7	27.9	0.0	6.7	34.6
Misc pumps motors	CNEL	100.2	332	137.8	-53.8	2.9	-23.3	-1.4		0.0	0.3	25.0	0.0	6.7	31.7
Motor & Pump P 56A/B	CNEL	93.7		226.8	-58.1	4.1	-20.3	-1.2	-0.55	0.0	0.0	17.6	0.0	6.7	24.3
Motor & Pump P 120/121	CNEL	96.2	2	212.7	-57.5	4.1	-19.8	-0.7	-0.15	0.0	2.4	24.5	0.0	6.7	31.1
Motor & Pump P 211/212	CNEL	93.7		257.8	-59.2	4.4	-19.5	-1.1	-1.12	0.0	0.0	17.1	0.0	6.7	23.8
Motor & Pump P 215/214	CNEL	94.6		254.8	-59.1	4.4	-18.7	-1.1	-1.12	0.0	1.3	20.3	0.0	6.7	26.9
Motor & Pump P 216	CNEL	98.3		262.6	-59.4	4.4	-18.5	-1.1	-1.29	0.0	0.0	22.3	0.0	6.7	29.0
Motor & Pump P 217/218	CNEL	93.7		256.8	-59.2	4.7	-20.6	-1.2	-1.12	0.0	0.0	16.3	0.0	6.7	23.0
Motor & Pump P 300	CNEL	97.1	2	222.3	-57.9	4.2	-20.7	-0.8		0.0	2.7	24.6	0.0	6.7	31.2
Motor & Pump P 301	CNEL	102.1	2	223.1	-58.0	4.2	-18.5	-0.7		0.0	1.9	31.0	0.0	6.7	37.7
Motor & Pump P 302	CNEL	97.1	2	221.6	-57.9	4.2	-21.0	-0.8		0.0	2.3	23.9	0.0	6.7	30.5
Motor & Pump P 303	CNEL	97.1	2	221.0	-57.9	4.1	-20.9	-0.8		0.0	2.2	23.9	0.0	6.7	30.5
Motor & Pump P 305	CNEL	97.5	2	220.4	-57.9	4.1	-22.0	-0.8		0.0	2.3	23.1	0.0	6.7	29.8
Motor & Pump P 306	CNEL	112.6	4	216.6	-57.7	3.8	-21.9	-1.1		0.0	7.5	43.2	0.0	6.7	49.9
Motor & Pump P 307	CNEL	102.1	2	225.3	-58.0	4.2	-19.1	-0.7	-0.07	0.0	1.7	30.1	0.0	6.7	36.8
Motor & Pump P 309	CNEL	97.5	2	219.8	-57.8	4.1	-23.3	-0.9		0.0	2.6	22.2	0.0	6.7	28.9
Motor & Pump P 312	CNEL	101.5	2	236.2	-58.5	4.4	-19.9	-0.7	-0.26	0.0	0.0	26.5	0.0	6.7	33.2
Motor & Pump P 313	CNEL	101.5	2	237.2	-58.5	4.5	-21.2	-0.8	-0.26	0.0	0.2	25.4	0.0	6.7	32.0
Motor & Pump P 315	CNEL	102.9	2	240.9	-58.6	4.3	-21.0	-0.8	-0.27	0.0	0.2	26.7	0.0	6.7	33.4
Motor & Pump P 316	CNEL	102.9	2	242.1	-58.7	4.4	-21.1	-0.8	-0.27	0.0	0.1	26.4	0.0	6.7	33.1
Motor & Pump P 317	CNEL	102.9	2	243.1	-58.7	4.3	-20.7	-0.8	-0.27	0.0	0.0	26.7	0.0	6.7	33.3
Motor & Pump P 318	CNEL	100.2	1	239.4	-58.6	4.5	-21.0	-0.8	-0.26	0.0	1.2	25.2	0.0	6.7	31.9
Motor & Pump P 319	CNEL	100.2	1	238.6	-58.5	4.5	-20.8	-0.8	-0.26	0.0	1.0	25.3	0.0	6.7	32.0
Motor & Pump P 327	CNEL	111.2	3	214.3	-57.6	4.0	-22.7	-1.3		0.0	1.3	35.0	0.0	6.7	41.7
Motor & Pump P 328	CNEL	109.9	5	218.9	-57.8	3.9	-23.1	-0.9		0.0	1.5	33.6	0.0	6.7	40.2
Motor & Pump P 329	CNEL	110.2	5	217.7	-57.8	3.9	-22.8	-0.9		0.0	0.9	33.5	0.0	6.7	40.2
Motor & Pump P 451	CNEL	93.7		235.2	-58.4	4.2	-22.4	-1.5		0.0	0.0	15.5	0.0	6.7	22.2
Motor & Pump P 453	CNEL	93.7		241.7	-58.7	4.3	-21.8	-1.5		0.0	0.3	16.3	0.0	6.7	23.0
Motor & Pump P 454	CNEL	93.7		236.0	-58.4	4.2	-19.7	-1.0	-0.21	0.0	0.0	18.4	0.0	6.7	25.1
Motor & Pump P 457	CNEL	93.7		242.8	-58.7	4.3	-20.6	-1.2		0.0	0.0	17.5	0.0	6.7	24.1
Motor & Pump P 458	CNEL	93.7		234.4	-58.4	4.2	-22.4	-1.5		0.0	0.1	15.6	0.0	6.7	22.3
Motor & Pump P 459	CNEL	93.7		235.3	-58.4	4.2	-19.7	-1.0	-0.24	0.0	0.0	18.5	0.0	6.7	25.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		204.9	-57.2	4.1	-19.6	-1.0	-0.39	0.0	2.7	24.7	0.0	6.7	31.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		203.8	-57.2	4.0	-19.7	-1.0	-0.39	0.0	2.6	24.6	0.0	6.7	31.2
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		175.8	-55.9	3.8	-23.5	-1.3	-0.14	0.0	0.0	18.3	0.0	6.7	25.0
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		175.1	-55.9	3.8	-23.6	-1.3	-0.09	0.0	0.0	18.4	0.0	6.7	25.0
Motor & Pump P 1601 A	CNEL	96.3	2	184.5	-56.3	3.5	-19.1	-1.0		0.0	12.0	35.5	0.0	6.7	42.2
Motor & Pump P 1601 B	CNEL	96.3	2	183.5	-56.3	3.5	-18.9	-1.0		0.0	11.9	35.6	0.0	6.7	42.2
Motor & Pump P 1602 A	CNEL	96.3	2	182.8	-56.2	3.5	-19.1	-1.0		0.0	12.0	35.6	0.0	6.7	42.3
Motor & Pump P 1602 B	CNEL	96.5	2	181.8	-56.2	3.5	-22.1	-1.1		0.0	15.1	35.7	0.0	6.7	42.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	197.7	-56.9	4.1	-21.5	-1.1	-0.24	0.0	0.0	20.9	0.0	6.7	27.6
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.4	-56.8	4.0	-20.9	-1.0	-0.23	0.0	0.4	22.1	0.0	6.7	28.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	192.8	-56.7	4.0	-21.0	-1.0	-0.23	0.0	3.1	24.8	0.0	6.7	31.5
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	202.4	-57.1	4.0	-20.3	-1.1	-0.23	0.0	2.6	24.5	0.0	6.7	31.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	201.2	-57.1	4.0	-21.1	-1.1	-0.28	0.0	1.6	22.8	0.0	6.7	29.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	184.3	-56.3	3.9	-21.2	-1.0	-0.03	0.0	2.0	23.7	0.0	6.7	30.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	186.0	-56.4	4.0	-21.2	-1.0	-0.09	0.0	4.3	25.9	0.0	6.7	32.5
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	189.0	-56.5	3.9	-21.6	-1.1	-0.21	0.0	1.4	22.3	0.0	6.7	28.9
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	187.7	-56.5	4.0	-22.0	-1.2	-0.18	0.0	3.6	24.1	0.0	6.7	30.7
P602 100 HP	CNEL	94.1		338.5	-61.6	4.7	-4.9	-1.3		0.0	0.0	31.1	0.0	6.7	37.8
P603 60 HP	CNEL	95.0		337.6	-61.6	4.8	-5.9	-1.9		0.0	0.0	30.6	0.0	6.7	37.3
P605 40 HP	CNEL	95.0		337.8	-61.6	4.8	-5.9	-1.9		0.0	0.0	30.6	0.0	6.7	37.2
P607 15 HP	CNEL	90.5		339.5	-61.6	4.9	-4.5	-1.5		0.0	0.0	27.7	0.0	6.7	34.4
P608 15 HP	CNEL	90.5		340.0	-61.6	4.9	-4.5	-1.5		0.0	0.0	27.7	0.0	6.7	34.4
P611 15 HP	CNEL	90.5		338.9	-61.6	4.8	-5.8	-1.3		0.0	0.0	26.7	0.0	6.7	33.3
P614/615 20 HP	CNEL	93.0		330.5	-61.4	4.4	-3.1	-1.3		0.0	0.0	31.7	0.0	6.7	38.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	302.4	-60.6	4.7	-14.6	-0.4	-0.12	0.0	0.0	63.7	-38.6	0.0	25.1
Scanner Blower C-084A/B	CNEL	95.5		229.6	-58.2	4.0	-24.2	-1.0		0.0	0.0	16.0	0.0	6.7	22.7
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	232.1	-58.3	4.0	-16.7	-0.1		0.0	0.0	0.4	0.0	6.7	7.1
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	233.6	-58.4	4.0	-16.5	-0.1		0.0	0.0	-1.2	0.0	6.7	5.4
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	233.9	-58.4	3.3	-16.0	-0.1		0.0	0.0	-1.7	0.0	6.7	5.0
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	235.2	-58.4	4.0	-18.8	-0.1		0.0	0.0	-1.9	0.0	6.7	4.8
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	235.5	-58.4	4.0	-19.5	-0.2		0.0	0.0	-2.3	0.0	6.7	4.4
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	227.9	-58.1	3.8	-20.4	-0.2		0.0	0.0	5.2	0.0	6.7	11.8
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	225.7	-58.1	3.7	-18.2	-0.2		0.0	1.0	7.5	0.0	6.7	14.2
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	226.7	-58.1	3.7	-18.2	-0.2		0.0	0.0	17.4	0.0	6.7	24.1
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	225.9	-58.1	3.7	-18.5	-0.2		0.0	0.2	8.9	0.0	6.7	15.6
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	228.0	-58.2	2.8	-16.5	-0.2		0.0	0.2	13.7	0.0	6.7	20.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	229.6	-58.2	3.8	-20.6	-0.2		0.0	0.0	14.8	0.0	6.7	21.5
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	227.3	-58.1	3.8	-20.7	-0.2		0.0	0.0	6.2	0.0	6.7	12.9
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	223.4	-58.0	4.0	-21.9	-0.9		0.0	0.0	22.5	0.0	6.7	29.1
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	223.3	-58.0	3.9	-22.0	-0.9		0.0	0.4	28.2	0.0	6.7	34.8
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	224.9	-58.0	3.2	-21.4	-0.8		0.0	1.5	25.7	0.0	6.7	32.4
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	226.5	-58.1	4.0	-23.3	-1.2		0.0	0.1	26.3	0.0	6.7	32.9
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	225.2	-58.0	4.0	-23.5	-1.2		0.0	2.2	16.9	0.0	6.7	23.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	227.6	-58.1	4.0	-23.4	-1.2		0.0	0.3	15.2	0.0	6.7	21.9
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	231.2	-58.3	2.8	-16.1	-0.2		0.0	0.0	6.3	0.0	6.7	13.0
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	227.7	-58.1	3.8	-16.9	-0.1		0.0	0.0	0.4	0.0	6.7	7.1
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	228.5	-58.2	3.8	-17.8	-0.2		0.0	0.0	6.6	0.0	6.7	13.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	230.7	-58.3	3.8	-17.6	-0.2		0.0	0.0	1.1	0.0	6.7	7.8
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	231.7	-58.3	3.8	-20.3	-0.2		0.0	0.0	-1.2	0.0	6.7	5.5
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	233.9	-58.4	3.8	-20.2	-0.2		0.0	0.0	4.0	0.0	6.7	10.7
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	235.0	-58.4	3.8	-20.0	-0.2		0.0	0.0	-1.5	0.0	6.7	5.2
Tank Farm Pump 1	CNEL	99.0	3	206.2	-57.3	4.2	-16.9	-1.0		0.0	1.0	29.0	0.0	6.7	35.7
Tank Farm Pump 2	CNEL	99.0	3	219.8	-57.8	4.3	-18.2	-1.0		0.0	0.0	26.2	0.0	6.7	32.9
Tank Farm Pump 3	CNEL	99.0	3	224.0	-58.0	4.3	-16.7	-1.0		0.0	0.0	27.6	0.0	6.7	34.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	363.9	-62.2	3.9	-8.5	-3.3	-0.06	0.0	0.3	42.6	-16.8	0.0	25.8
Vaporizer Blower 1	CNEL	88.7		225.1	-58.0	4.3	-23.2	-0.9		0.0	2.4	13.3	0.0	6.7	20.0
Vaporizer Blower 2	CNEL	88.7		224.5	-58.0	4.3	-23.2	-0.9		0.0	3.1	14.0	0.0	6.7	20.6
Vaporizer Inlet Silencer	CNEL	73.7		224.2	-58.0	3.5	-18.8	-0.3		0.0	2.6	2.6	0.0	6.7	9.3
Vaporizer Motor 1	CNEL	83.6		225.2	-58.0	4.4	-23.8	-1.2		0.0	2.4	7.4	0.0	6.7	14.0
Vaporizer Motor 2	CNEL	83.6		224.6	-58.0	4.3	-23.9	-1.2		0.0	3.3	8.2	0.0	6.7	14.9
Water Treatment Pumps P-056A&B	CNEL	93.0		241.9	-58.7	4.6	-23.9	-1.5		0.0	0.0	13.5	0.0	6.7	20.2
XF-1502 Splitter Area 1	CNEL	104.5		190.1	-56.6	2.8	-9.3	-0.8	0.00	-3.5	0.0	37.1	0.0	6.7	43.8
XF-1502 Splitter Area 2	CNEL	104.5		192.7	-56.7	2.8	-6.8	-1.0		-3.8	0.0	39.0	0.0	6.7	45.6
XF-1504 Splitter Area 1	CNEL	104.5		186.9	-56.4	2.8	-6.7	-1.0	-0.01	-3.9	0.0	39.4	0.0	6.7	46.0
XF-1504 Splitter Area 2	CNEL	104.5		189.5	-56.5	2.8	-17.0	-0.6		-2.6	0.0	30.5	0.0	6.7	37.2
XF 304, XF 321	CNEL	110.5	56	229.1	-58.2	2.6	-16.6	-0.4		-1.6	0.1	36.4	0.0	6.7	43.1
XF 313, XF 314	CNEL	113.0	18	217.2	-57.7	2.5	-18.3	-0.5		-2.7	0.0	36.3	0.0	6.7	43.0
XF 335-1, XF 335-2	CNEL	113.4	54	223.8	-58.0	2.6	-17.8	-0.5	0.00	-1.7	0.0	38.1	0.0	6.7	44.7
XF 503	CNEL	113.0	21	240.9	-58.6	2.8	-14.1	-0.8	-0.50	-2.9	0.0	38.9	0.0	6.7	45.5
XF - 1601	CNEL	96.6		184.3	-56.3	2.7	-8.1	-0.3		-1.3	0.0	33.4	0.0	6.7	40.0
XF - 1602	CNEL	96.6		180.5	-56.1	2.7	-7.1	-0.3		-1.4	0.0	34.4	0.0	6.7	41.1
XF Module 1510	CNEL	108.3		199.5	-57.0	2.8	-7.9	-0.9	-0.27	-3.7	0.0	41.3	0.0	6.7	48.0
XF Module 1519	CNEL	109.0		195.9	-56.8	2.8	-10.7	-0.8	-0.27	-3.3	0.2	40.1	0.0	6.7	46.8
xxxx xxxx xxxx xxxx	CNEL		606								12.8				35.1
xxxx xxxx xxxx xxxx	CNEL		606								12.5				35.1
xxxx xxxx xxxx xxxx	CNEL		917								2.1				28.1
xxxx xxxx xxxx xxxx	CNEL		917								2.1				28.4
xxxx xxxx xxxx xxxx	CNEL		608								3.9				34.2
xxxx xxxx xxxx xxxx	CNEL		608								4.2				34.2
xxxx xxxx xxxx xxxx	CNEL		1172								2.2				47.4
xxxx xxxx xxxx xxxx	CNEL		520								11.1				34.3
xxxx xxxx xxxx xxxx	CNEL		572								2.9				47.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver MH-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 57.1 dB(A)			Ld 7-19 dB(A)		Leq,N 57.0 dB(A)		Le 19-22 dB(A)		CNEL 63.7 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	225.2	-58.0	2.9	-6.6	0.0		0.0	0.0	31.7	0.0	6.7	38.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	305.4	-60.7	4.6	-15.3	-1.5	-0.10	0.0	0.0	36.0	-10.8	0.0	25.2
Air Compressor C 1	CNEL	110.0	5	223.1	-58.0	4.1	-22.1	-0.7		0.0	2.6	36.1	0.0	6.7	42.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		242.9	-58.7	4.3	-23.7	-2.4		0.0	0.0	19.8	0.0	6.7	26.5
Asphalt Production	CNEL	113.8	1206	261.2	-59.3	3.5	-7.2	-1.9		0.0	0.0	48.8	0.0	6.7	55.5
BFW Pumps P-073A&B	CNEL	95.8		245.7	-58.8	4.5	-23.5	-1.4		0.0	0.0	16.5	0.0	6.7	23.2
Blower F 401	CNEL	113.0		277.5	-59.9	4.1	-18.2	-0.3	-0.26	0.0	0.0	38.4	0.0	6.7	45.1
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	356.9	-62.0	4.7	-12.9	-0.7		0.0	1.2	28.8	0.0	6.7	35.5
Brine Transfer P-085	CNEL	96.2		251.3	-59.0	4.8	-23.7	-1.5		0.0	0.0	16.7	0.0	6.7	23.4
Burner H301 North	CNEL	96.1	10	268.1	-59.6	4.0	-3.6	-1.6		0.0	0.1	38.3	0.0	6.7	45.0
Burner H301 South	CNEL	95.9	10	269.0	-59.6	4.0	-21.3	-1.3		0.0	0.5	21.3	0.0	6.7	27.9
Burner H302 North	CNEL	97.0	13	273.1	-59.7	4.1	-12.3	-1.0	-0.43	0.0	0.0	30.6	0.0	6.7	37.3
Burner H302 South	CNEL	97.0	13	274.1	-59.7	4.1	-22.7	-1.5	-0.35	0.0	0.1	19.9	0.0	6.7	26.6
Burner H303 North	CNEL	97.0	13	288.1	-60.2	4.3	-18.8	-1.0	-0.61	0.0	0.6	24.1	0.0	6.7	30.8
Burner H303 South	CNEL	97.0	13	289.7	-60.2	4.3	-22.7	-1.6	-0.07	0.0	2.9	22.6	0.0	6.7	29.3
Burner H304 North	CNEL	97.0	13	283.9	-60.1	4.2	-18.8	-1.1	-0.18	0.0	0.6	24.6	0.0	6.7	31.3
Burner H304 South	CNEL	97.0	13	285.4	-60.1	4.2	-22.9	-1.6	-0.14	0.0	0.0	19.6	0.0	6.7	26.2
Burner H305 North	CNEL	96.3	11	279.5	-59.9	4.2	-19.3	-1.1	-0.33	0.0	0.7	23.6	0.0	6.7	30.3
Burner H305 South	CNEL	96.3	11	280.8	-60.0	4.2	-21.7	-1.4		0.0	0.0	20.5	0.0	6.7	27.2
Burner H306 North	CNEL	95.0	8	274.7	-59.8	4.1	-19.1	-1.1	-0.32	0.0	0.5	22.4	0.0	6.7	29.1
Burner H306 South	CNEL	95.1	8	275.7	-59.8	4.1	-22.5	-1.5	-0.09	0.0	0.7	19.1	0.0	6.7	25.8
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	273.4	-59.7	3.8	-16.8	-0.6	-0.37	1.9	0.0	33.0	0.0	6.7	39.6
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	267.1	-59.5	3.8	-15.0	-0.6	-0.54	0.0	0.0	28.6	0.0	6.7	35.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	275.3	-59.8	3.8	-14.6	-0.5	-0.29	3.1	0.0	38.2	0.0	6.7	44.9
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	282.8	-60.0	3.9	-20.3	-0.7	-0.53	-7.1	0.0	25.9	0.0	6.7	32.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	270.3	-59.6	3.8	-17.6	-0.6	-0.50	-7.2	0.0	22.0	0.0	6.7	28.7
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	288.2	-60.2	3.9	-21.4	-1.0	-0.48	-7.8	0.0	13.5	0.0	6.7	20.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	215.0	-57.6	3.5	-16.5	-0.6		2.5	0.0	29.1	0.0	6.7	35.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	224.0	-58.0	3.5	-20.3	-0.8	-0.01	-7.7	3.5	18.1	0.0	6.7	24.7
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	199.2	-57.0	3.1	-15.7	-0.5		2.7	0.1	33.3	0.0	6.7	40.0
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	211.2	-57.5	3.3	-21.1	-0.8		-7.7	3.2	20.1	0.0	6.7	26.8
Cooling Tower M 512	CNEL	95.7		224.1	-58.0	4.1	-24.0	-1.1		0.0	0.1	16.9	0.0	6.7	23.6
Cooling Tower M 513	CNEL	95.7		225.2	-58.0	4.1	-24.0	-1.1		0.0	0.0	16.7	0.0	6.7	23.4
Cooling Tower M 514	CNEL	95.7		223.1	-58.0	4.1	-24.0	-1.0		0.0	0.0	16.9	0.0	6.7	23.6
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	317.4	-61.0	4.8	-6.4	-2.5		0.0	0.2	48.8	0.0	6.7	55.5
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	317.4	-61.0	4.2	-5.4	-2.7		0.0	0.2	49.0	0.0	6.7	55.7
CT Y-600-CT Y-600 North	CNEL	96.4	51	319.2	-61.1	3.9	-3.6	-1.7		0.0	0.0	37.0	0.0	6.7	43.7
CT Y-600-CT Y-600 South	CNEL	96.4	52	334.3	-61.5	4.0	-17.2	-0.8		0.0	0.2	24.1	0.0	6.7	30.8
Deaerator Skid P-058A&B	CNEL	96.2		233.9	-58.4	2.9	-21.0	-1.0		0.0	0.0	18.7	0.0	6.7	25.4
Exhaust Stack	CNEL	100.6		242.6	-58.7	2.8	-10.9	-0.3		0.0	0.0	33.5	0.0	6.7	40.2
F.G. After Cooler XF-083ABC	CNEL	100.2		237.4	-58.5	3.6	-18.2	-0.4		0.0	0.0	26.8	0.0	6.7	33.4
Fan Y-600	CNEL	107.5		326.3	-61.3	2.9	-8.9	-0.8		0.0	0.0	39.4	0.0	6.7	46.1
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	234.7	-58.4	2.8	-11.4	-0.1		0.0	0.0	15.4	0.0	6.7	22.0
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	233.3	-58.4	3.8	-11.8	-0.1		0.0	0.0	14.3	0.0	6.7	21.0
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	236.0	-58.4	3.8	-19.9	-1.0		0.0	0.0	-1.4	0.0	6.7	5.3
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	231.4	-58.3	3.7	-12.5	-0.1		0.0	0.0	16.6	0.0	6.7	23.2
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	238.1	-58.5	3.8	-17.0	-0.1		0.0	0.0	3.1	0.0	6.7	9.8
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	236.2	-58.5	3.8	-17.2	-0.1		0.0	0.0	8.8	0.0	6.7	15.5
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	238.0	-58.5	3.8	-23.1	-1.4		0.0	0.0	-5.2	0.0	6.7	1.5
Fin Fan XF 616 - Above	CNEL	96.0	75	331.0	-61.4	2.8	-1.0	-0.9		-11.5	0.0	24.1	0.0	6.7	30.8
Fin Fan XF 616 - Below	CNEL	108.0	75	330.9	-61.4	2.8	-1.0	-1.3		-8.0	0.0	39.2	0.0	6.7	45.9
Fin Fan XF 617 - Above	CNEL	93.0	21	332.1	-61.4	2.8	-0.3	-0.8		-11.6	0.0	21.7	0.0	6.7	28.4
Fin Fan XF 617 - Below	CNEL	104.0	21	332.1	-61.4	2.8	-0.1	-1.2		-7.9	0.0	36.2	0.0	6.7	42.9
Heater # 5-Heater	CNEL	91.1	13	354.0	-62.0	4.7	-18.2	-0.8		0.0	4.0	21.9	0.0	6.7	28.6
Heater # 5-Heater	CNEL	91.1	13	352.9	-61.9	4.7	-17.9	-0.8		0.0	3.2	21.5	0.0	6.7	28.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	351.9	-61.9	4.7	-14.3	-0.7		0.0	0.1	21.9	0.0	6.7	28.6
Heater H 601	CNEL	89.1	13	353.7	-62.0	4.6	-3.0	-2.3		0.0	0.0	26.4	0.0	6.7	33.0
Hydro Heater H-402	CNEL	98.1		243.9	-58.7	4.1	-17.8	-0.5	-0.33	0.0	0.0	24.9	0.0	6.7	31.6
ID Fan	CNEL	110.3		293.3	-60.3	3.7	-20.3	-0.6	-0.43	0.0	0.4	32.7	0.0	6.7	39.4
ID Fan 200 HP Motor	CNEL	104.4		293.9	-60.4	4.3	-23.5	-2.0		0.0	3.0	25.8	0.0	6.7	32.4
Incinirator Compressor & Motor	CNEL	92.5		405.8	-63.2	5.1	-6.7	-0.8		0.0	0.0	27.0	0.0	6.7	33.6
Incinirator Fin Fan	CNEL	94.8		405.8	-63.2	5.0	-6.2	-0.7		0.0	0.0	29.8	0.0	6.7	36.5
Lub Oil Cooler XF-061	CNEL	100.5		228.9	-58.2	4.0	-20.5	-0.4		0.0	2.3	27.8	0.0	6.7	34.5
Misc pumps motors	CNEL	100.2	332	140.8	-54.0	2.9	-22.5	-1.2		0.0	5.0	30.6	0.0	6.7	37.2
Motor & Pump P 56A/B	CNEL	93.7		240.3	-58.6	4.2	-20.8	-1.3	-0.53	0.0	0.0	16.6	0.0	6.7	23.3
Motor & Pump P 120/121	CNEL	96.2	2	228.0	-58.2	4.2	-21.3	-0.8	-0.18	0.0	0.0	19.9	0.0	6.7	26.6
Motor & Pump P 211/212	CNEL	93.7		271.0	-59.7	4.5	-21.8	-1.4	-0.44	0.0	0.8	15.7	0.0	6.7	22.3
Motor & Pump P 215/214	CNEL	94.6		268.1	-59.6	4.5	-18.1	-1.1	-1.08	0.0	1.3	20.6	0.0	6.7	27.3
Motor & Pump P 216	CNEL	98.3		276.0	-59.8	4.4	-17.9	-1.1	-1.26	0.0	0.0	22.7	0.0	6.7	29.3
Motor & Pump P 217/218	CNEL	93.7		270.0	-59.6	4.7	-22.6	-1.5	-0.64	0.0	1.6	15.6	0.0	6.7	22.2
Motor & Pump P 300	CNEL	97.1	2	237.9	-58.5	4.3	-20.8	-0.8		0.0	0.6	21.8	0.0	6.7	28.5
Motor & Pump P 301	CNEL	102.1	2	238.6	-58.5	4.3	-20.3	-0.8		0.0	0.8	27.5	0.0	6.7	34.2
Motor & Pump P 302	CNEL	97.1	2	237.1	-58.5	4.3	-19.4	-0.7		0.0	0.0	22.7	0.0	6.7	29.4
Motor & Pump P 303	CNEL	97.1	2	236.6	-58.5	4.2	-20.5	-0.8		0.0	0.7	22.2	0.0	6.7	28.9
Motor & Pump P 305	CNEL	97.5	2	236.0	-58.5	4.2	-22.1	-0.9		0.0	0.1	20.3	0.0	6.7	27.0
Motor & Pump P 306	CNEL	112.6	4	232.5	-58.3	3.9	-22.2	-1.1		0.0	0.5	35.4	0.0	6.7	42.1
Motor & Pump P 307	CNEL	102.1	2	240.6	-58.6	4.3	-20.8	-0.8	-0.12	0.0	1.9	27.9	0.0	6.7	34.6
Motor & Pump P 309	CNEL	97.5	2	235.5	-58.4	4.2	-23.3	-1.0		0.0	0.1	19.1	0.0	6.7	25.8
Motor & Pump P 312	CNEL	101.5	2	250.9	-59.0	4.5	-21.2	-0.9	-0.26	0.0	0.0	24.7	0.0	6.7	31.4
Motor & Pump P 313	CNEL	101.5	2	251.8	-59.0	4.5	-21.3	-0.9	-0.26	0.0	0.0	24.6	0.0	6.7	31.3
Motor & Pump P 315	CNEL	102.9	2	255.4	-59.1	4.4	-21.7	-0.9	-0.28	0.0	0.8	26.1	0.0	6.7	32.8
Motor & Pump P 316	CNEL	102.9	2	256.4	-59.2	4.4	-21.6	-0.9	-0.26	0.0	0.3	25.7	0.0	6.7	32.4
Motor & Pump P 317	CNEL	102.9	2	257.4	-59.2	4.4	-20.5	-0.9	-0.26	0.0	0.0	26.4	0.0	6.7	33.1
Motor & Pump P 318	CNEL	100.2	1	253.9	-59.1	4.6	-21.9	-0.9	-0.30	0.0	1.7	24.3	0.0	6.7	31.0
Motor & Pump P 319	CNEL	100.2	1	253.1	-59.1	4.6	-21.6	-0.9	-0.26	0.0	1.0	24.0	0.0	6.7	30.7
Motor & Pump P 327	CNEL	111.2	3	230.4	-58.2	4.1	-23.0	-1.4		0.0	1.1	33.8	0.0	6.7	40.5
Motor & Pump P 328	CNEL	109.9	5	234.6	-58.4	4.0	-23.0	-0.9		0.0	0.1	31.7	0.0	6.7	38.4
Motor & Pump P 329	CNEL	110.2	5	233.5	-58.4	4.0	-23.2	-0.9		0.0	0.1	31.8	0.0	6.7	38.4
Motor & Pump P 451	CNEL	93.7		247.6	-58.9	4.3	-20.5	-1.1	-0.08	0.0	2.0	19.4	0.0	6.7	26.1
Motor & Pump P 453	CNEL	93.7		253.6	-59.1	4.3	-21.8	-1.3		0.0	0.4	16.1	0.0	6.7	22.8
Motor & Pump P 454	CNEL	93.7		248.4	-58.9	4.3	-22.9	-1.7		0.0	0.0	14.5	0.0	6.7	21.1
Motor & Pump P 457	CNEL	93.7		254.6	-59.1	4.3	-21.9	-1.3		0.0	0.0	15.7	0.0	6.7	22.3
Motor & Pump P 458	CNEL	93.7		246.8	-58.8	4.3	-20.5	-1.1	-0.05	0.0	0.0	17.4	0.0	6.7	24.1
Motor & Pump P 459	CNEL	93.7		247.8	-58.9	4.3	-22.9	-1.7		0.0	0.0	14.5	0.0	6.7	21.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		217.9	-57.8	4.2	-20.7	-1.0	-0.38	0.0	1.4	22.0	0.0	6.7	28.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		216.9	-57.7	4.2	-18.8	-0.9	-0.38	0.0	0.9	23.5	0.0	6.7	30.2
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		189.9	-56.6	3.9	-23.7	-1.4	-0.15	0.0	0.0	17.6	0.0	6.7	24.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		189.3	-56.5	3.9	-23.7	-1.4	-0.10	0.0	0.0	17.6	0.0	6.7	24.3
Motor & Pump P 1601 A	CNEL	96.3	2	196.4	-56.9	3.7	-22.3	-1.2		0.0	1.9	21.6	0.0	6.7	28.3
Motor & Pump P 1601 B	CNEL	96.3	2	195.3	-56.8	3.7	-22.3	-1.2		0.0	1.9	21.6	0.0	6.7	28.3
Motor & Pump P 1602 A	CNEL	96.3	2	194.6	-56.8	3.7	-22.5	-1.2		0.0	2.0	21.5	0.0	6.7	28.2
Motor & Pump P 1602 B	CNEL	96.5	2	193.5	-56.7	3.7	-22.9	-1.3		0.0	0.3	19.5	0.0	6.7	26.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	210.4	-57.5	4.2	-21.6	-1.1	-0.22	0.0	0.0	20.4	0.0	6.7	27.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	207.3	-57.3	4.1	-21.3	-1.1	-0.22	0.0	0.8	21.6	0.0	6.7	28.2
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	205.8	-57.3	4.1	-20.9	-1.0	-0.22	0.0	1.2	22.6	0.0	6.7	29.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	215.5	-57.7	4.1	-4.7	-1.9	-0.35	0.0	0.1	36.2	0.0	6.7	42.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	214.4	-57.6	4.1	-21.3	-1.2	-0.22	0.0	1.0	21.5	0.0	6.7	28.2
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	197.2	-56.9	4.1	-21.3	-1.0	-0.03	0.0	1.2	22.3	0.0	6.7	29.0
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	199.0	-57.0	4.1	-7.2	-1.8	-0.09	0.0	0.1	34.4	0.0	6.7	41.1
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	202.2	-57.1	4.1	-22.2	-1.3	-0.20	0.0	1.6	21.1	0.0	6.7	27.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	200.8	-57.0	4.1	-8.2	-1.8	-0.15	0.0	0.1	33.3	0.0	6.7	40.0
P602 100 HP	CNEL	94.1		335.9	-61.5	4.7	-3.5	-1.4		0.0	0.0	32.5	0.0	6.7	39.2
P603 60 HP	CNEL	95.0		335.3	-61.5	4.8	-5.5	-1.8		0.0	0.0	31.1	0.0	6.7	37.8
P605 40 HP	CNEL	95.0		335.4	-61.5	4.8	-5.2	-1.8		0.0	0.0	31.4	0.0	6.7	38.0
P607 15 HP	CNEL	90.5		336.7	-61.5	4.9	-4.3	-1.6		0.0	0.0	27.9	0.0	6.7	34.6
P608 15 HP	CNEL	90.5		337.0	-61.5	4.9	-4.1	-1.6		0.0	0.0	28.1	0.0	6.7	34.8
P611 15 HP	CNEL	90.5		336.2	-61.5	4.8	-4.5	-1.5		0.0	0.0	27.8	0.0	6.7	34.5
P614/615 20 HP	CNEL	93.0		327.9	-61.3	4.4	-4.4	-1.4		0.0	0.0	30.3	0.0	6.7	37.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	311.1	-60.9	4.7	-13.8	-0.5	-0.10	0.0	0.0	64.1	-38.6	0.0	25.6
Scanner Blower C-084A/B	CNEL	95.5		235.2	-58.4	4.0	-24.1	-1.0		0.0	0.0	16.0	0.0	6.7	22.7
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	239.0	-58.6	4.0	-16.3	-0.1		0.0	0.0	0.6	0.0	6.7	7.2
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	240.6	-58.6	4.0	-16.2	-0.1		0.0	0.0	-1.1	0.0	6.7	5.5
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	240.8	-58.6	3.4	-15.7	-0.1		0.0	0.0	-1.6	0.0	6.7	5.1
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	242.1	-58.7	4.0	-18.8	-0.1		0.0	0.0	-2.1	0.0	6.7	4.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	242.5	-58.7	4.0	-19.6	-0.2		0.0	0.0	-2.6	0.0	6.7	4.1
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	233.3	-58.4	3.8	-20.1	-0.2		0.0	0.0	5.3	0.0	6.7	12.0
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	231.3	-58.3	3.8	-17.5	-0.2		0.0	1.0	8.0	0.0	6.7	14.7
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	232.5	-58.3	3.8	-17.6	-0.2		0.0	0.0	17.8	0.0	6.7	24.5
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	231.4	-58.3	3.8	-17.9	-0.2		0.0	0.0	9.2	0.0	6.7	15.8
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	233.8	-58.4	2.9	-15.6	-0.2		0.0	0.0	14.2	0.0	6.7	20.9
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	235.3	-58.4	3.8	-20.4	-0.2		0.0	0.0	14.9	0.0	6.7	21.6
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	232.7	-58.3	3.8	-20.4	-0.2		0.0	0.0	6.3	0.0	6.7	13.0
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	228.1	-58.2	4.0	-21.1	-0.8		0.0	0.0	23.1	0.0	6.7	29.8
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	228.3	-58.2	4.0	-21.3	-0.8		0.0	0.0	28.4	0.0	6.7	35.0
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	229.9	-58.2	3.3	-20.5	-0.8		0.0	0.0	25.1	0.0	6.7	31.8
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	231.5	-58.3	4.0	-23.1	-1.1		0.0	0.0	26.2	0.0	6.7	32.9
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	230.7	-58.3	4.0	-23.4	-1.2		0.0	0.0	14.6	0.0	6.7	21.3
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	233.0	-58.3	4.0	-23.2	-1.1		0.0	0.0	15.0	0.0	6.7	21.6
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	237.6	-58.5	2.9	-15.5	-0.2		0.0	0.0	6.8	0.0	6.7	13.5
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	233.8	-58.4	3.8	-16.3	-0.1		0.0	0.0	0.8	0.0	6.7	7.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	235.0	-58.4	3.8	-17.3	-0.2		0.0	0.0	6.9	0.0	6.7	13.5
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	237.5	-58.5	3.8	-17.2	-0.2		0.0	0.0	1.3	0.0	6.7	8.0
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	237.7	-58.5	3.8	-20.1	-0.2		0.0	0.0	-1.1	0.0	6.7	5.5
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	240.3	-58.6	3.8	-20.0	-0.2		0.0	0.0	4.0	0.0	6.7	10.7
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	241.6	-58.7	3.9	-20.0	-0.2		0.0	0.0	-1.6	0.0	6.7	5.1
Tank Farm Pump 1	CNEL	99.0	3	196.3	-56.9	4.1	-20.3	-1.0		0.0	0.6	25.6	0.0	6.7	32.3
Tank Farm Pump 2	CNEL	99.0	3	208.8	-57.4	4.2	-17.0	-1.0		0.0	0.1	28.0	0.0	6.7	34.7
Tank Farm Pump 3	CNEL	99.0	3	212.7	-57.5	4.2	-12.0	-1.1		0.0	0.0	32.6	0.0	6.7	39.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	377.0	-62.5	4.0	-10.0	-3.0	-0.08	0.0	0.1	40.8	-16.8	0.0	24.0
Vaporizer Blower 1	CNEL	88.7		230.9	-58.3	4.4	-23.0	-0.8		0.0	2.5	13.4	0.0	6.7	20.1
Vaporizer Blower 2	CNEL	88.7		230.4	-58.2	4.4	-23.0	-0.8		0.0	3.1	14.1	0.0	6.7	20.7
Vaporizer Inlet Silencer	CNEL	73.7		230.0	-58.2	3.5	-18.0	-0.3		0.0	2.0	2.7	0.0	6.7	9.3
Vaporizer Motor 1	CNEL	83.6		231.1	-58.3	4.4	-23.7	-1.2		0.0	2.4	7.4	0.0	6.7	14.1
Vaporizer Motor 2	CNEL	83.6		230.5	-58.2	4.4	-23.7	-1.2		0.0	3.3	8.3	0.0	6.7	14.9
Water Treatment Pumps P-056A&B	CNEL	93.0		248.3	-58.9	4.7	-23.9	-1.5		0.0	0.0	13.4	0.0	6.7	20.1
XF-1502 Splitter Area 1	CNEL	104.5		203.1	-57.1	2.8	-5.3	-1.2	0.00	-4.0	0.0	39.6	0.0	6.7	46.3
XF-1502 Splitter Area 2	CNEL	104.5		205.5	-57.2	2.8	-8.6	-0.9		-3.6	0.0	37.0	0.0	6.7	43.6
XF-1504 Splitter Area 1	CNEL	104.5		199.7	-57.0	2.8	-8.7	-0.9	-0.01	-3.6	0.0	37.1	0.0	6.7	43.8
XF-1504 Splitter Area 2	CNEL	104.5		202.1	-57.1	2.8	-11.1	-0.8		-3.2	0.0	35.1	0.0	6.7	41.8
XF 304, XF 321	CNEL	110.5	56	244.6	-58.8	2.5	-16.3	-0.4		-1.6	0.0	36.0	0.0	6.7	42.7
XF 313, XF 314	CNEL	113.0	18	233.4	-58.4	2.5	-17.7	-0.6		-2.7	0.0	36.2	0.0	6.7	42.9
XF 335-1, XF 335-2	CNEL	113.4	54	239.7	-58.6	2.5	-17.2	-0.5	0.00	-1.7	0.0	37.9	0.0	6.7	44.6
XF 503	CNEL	113.0	21	254.5	-59.1	2.8	-9.7	-0.9	-0.50	-3.2	0.0	42.4	0.0	6.7	49.1
XF - 1601	CNEL	96.6		196.0	-56.8	2.7	-13.4	-0.3		-1.1	0.0	27.7	0.0	6.7	34.4
XF - 1602	CNEL	96.6		191.9	-56.7	2.7	-14.1	-0.3		-1.1	0.0	27.1	0.0	6.7	33.8
XF Module 1510	CNEL	108.3		212.3	-57.5	2.8	-7.7	-1.0	-0.22	-3.7	0.0	40.9	0.0	6.7	47.6
XF Module 1519	CNEL	109.0		208.9	-57.4	2.8	-0.3	-1.6	-0.29	-4.6	0.0	47.7	0.0	6.7	54.4
xxxx xxxx xxxx xxxx	CNEL		606								9.6				37.2
xxxx xxxx xxxx xxxx	CNEL		606								9.4				37.4
xxxx xxxx xxxx xxxx	CNEL		917								2.1				28.4
xxxx xxxx xxxx xxxx	CNEL		917								2.1				28.6
xxxx xxxx xxxx xxxx	CNEL		608								6.7				33.2
xxxx xxxx xxxx xxxx	CNEL		608								6.8				33.0
xxxx xxxx xxxx xxxx	CNEL		1172								2.2				48.3
xxxx xxxx xxxx xxxx	CNEL		520								4.8				39.8
xxxx xxxx xxxx xxxx	CNEL		572								2.9				47.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver CA-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 56.0 dB(A)			Ld 7-19 dB(A)		Leq,N 55.7 dB(A)		Le 19-22 dB(A)		CNEL 62.4 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	237.9	-58.5	2.9	-4.1	-0.4		0.0	0.0	33.4	0.0	6.7	40.0
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	321.4	-61.1	4.6	-11.6	-1.7	-0.03	0.0	0.1	39.2	-10.8	0.0	28.4
Air Compressor C 1	CNEL	110.0	5	250.7	-59.0	4.1	-21.7	-0.7		0.0	2.7	35.5	0.0	6.7	42.2
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		255.7	-59.1	4.3	-16.9	-1.4		0.0	0.1	27.2	0.0	6.7	33.9
Asphalt Production	CNEL	113.8	1206	266.3	-59.5	3.5	-7.2	-1.9		0.0	0.2	48.9	0.0	6.7	55.6
BFW Pumps P-073A&B	CNEL	95.8		259.5	-59.3	4.5	-18.9	-0.9		0.0	0.2	21.4	0.0	6.7	28.0
Blower F 401	CNEL	113.0		299.9	-60.5	4.1	-15.8	-0.4	-0.24	0.0	0.0	40.2	0.0	6.7	46.8
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	354.7	-62.0	4.6	-17.5	-0.7		0.0	0.7	23.7	0.0	6.7	30.4
Brine Transfer P-085	CNEL	96.2		266.2	-59.5	4.7	-23.2	-1.4		0.0	0.0	16.8	0.0	6.7	23.5
Burner H301 North	CNEL	96.1	10	296.5	-60.4	4.0	-8.4	-1.2		0.0	0.1	33.1	0.0	6.7	39.8
Burner H301 South	CNEL	95.9	10	297.4	-60.5	4.0	-20.6	-1.3		0.0	0.2	20.7	0.0	6.7	27.4
Burner H302 North	CNEL	97.0	13	301.3	-60.6	4.1	-14.1	-1.0	-0.43	0.0	1.0	28.9	0.0	6.7	35.6
Burner H302 South	CNEL	97.0	13	302.2	-60.6	4.1	-22.8	-1.6	-0.30	0.0	0.1	18.9	0.0	6.7	25.6
Burner H303 North	CNEL	97.0	13	315.3	-61.0	4.3	-15.9	-1.0	-0.63	0.0	0.3	26.0	0.0	6.7	32.7
Burner H303 South	CNEL	97.0	13	316.7	-61.0	4.3	-21.9	-1.5	-0.12	0.0	2.0	21.8	0.0	6.7	28.4
Burner H304 North	CNEL	97.0	13	311.4	-60.9	4.2	-19.4	-1.2	-0.21	0.0	0.6	23.1	0.0	6.7	29.8
Burner H304 South	CNEL	97.0	13	312.8	-60.9	4.2	-22.6	-1.6	-0.09	0.0	0.0	19.0	0.0	6.7	25.7
Burner H305 North	CNEL	96.3	11	307.1	-60.7	4.2	-17.5	-1.1	-0.27	0.0	0.5	24.4	0.0	6.7	31.1
Burner H305 South	CNEL	96.3	11	308.4	-60.8	4.2	-22.6	-1.6	-0.10	0.0	0.0	18.5	0.0	6.7	25.2
Burner H306 North	CNEL	95.0	8	302.6	-60.6	4.1	-18.0	-1.1	-0.44	0.0	0.4	22.5	0.0	6.7	29.2
Burner H306 South	CNEL	95.1	8	303.6	-60.6	4.2	-22.0	-1.5	-0.10	0.0	0.4	18.3	0.0	6.7	25.0
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	298.7	-60.5	3.8	-7.1	-1.0	-0.79	1.6	0.0	40.8	0.0	6.7	47.5
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	292.5	-60.3	3.8	-7.7	-1.2	-0.48	0.0	0.0	34.6	0.0	6.7	41.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	301.1	-60.6	3.8	-9.8	-0.7	-0.35	3.2	0.0	42.2	0.0	6.7	48.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	308.2	-60.8	3.9	-16.4	-0.7	-0.50	-6.9	0.0	29.3	0.0	6.7	36.0
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	295.6	-60.4	3.8	-12.5	-0.7	-0.21	-6.9	0.0	26.8	0.0	6.7	33.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	314.1	-60.9	3.9	-21.1	-1.0	-0.32	-7.8	0.0	13.1	0.0	6.7	19.8
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	237.6	-58.5	3.6	-16.5	-0.6		2.2	0.0	28.1	0.0	6.7	34.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	247.2	-58.9	3.6	-21.8	-1.0		-7.8	0.0	12.1	0.0	6.7	18.8
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	220.2	-57.8	3.1	-17.8	-0.5		2.4	0.1	30.0	0.0	6.7	36.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	233.3	-58.4	3.3	-21.1	-0.8		-7.8	5.1	21.1	0.0	6.7	27.7
Cooling Tower M 512	CNEL	95.7		246.6	-58.8	4.2	-23.5	-1.1		0.0	0.1	16.5	0.0	6.7	23.1
Cooling Tower M 513	CNEL	95.7		247.8	-58.9	4.1	-23.6	-1.1		0.0	0.1	16.3	0.0	6.7	23.0
Cooling Tower M 514	CNEL	95.7		245.6	-58.8	4.2	-23.7	-1.1		0.0	0.0	16.2	0.0	6.7	22.9
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	314.1	-60.9	4.7	-12.0	-2.6		0.0	0.1	43.0	0.0	6.7	49.7
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	314.1	-60.9	4.1	-11.1	-2.3		0.0	0.1	43.6	0.0	6.7	50.3
CT Y-600-CT Y-600 North	CNEL	96.4	51	321.0	-61.1	3.8	-0.6	-2.1		0.0	0.2	39.6	0.0	6.7	46.3
CT Y-600-CT Y-600 South	CNEL	96.4	52	336.1	-61.5	4.0	-15.0	-0.8		0.0	0.0	26.0	0.0	6.7	32.7
Deaerator Skid P-058A&B	CNEL	96.2		247.9	-58.9	2.9	-4.8	-1.9		0.0	0.0	33.6	0.0	6.7	40.3
Exhaust Stack	CNEL	100.6		258.5	-59.2	2.7	-6.1	-0.4		0.0	0.0	37.7	0.0	6.7	44.3
F.G. After Cooler XF-083ABC	CNEL	100.2		248.7	-58.9	3.6	-7.6	-0.5		0.0	0.0	36.8	0.0	6.7	43.5
Fan Y-600	CNEL	107.5		328.1	-61.3	2.8	-8.7	-0.8		0.0	0.1	39.6	0.0	6.7	46.3
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	244.9	-58.8	2.8	-4.5	-0.2		0.0	0.0	21.8	0.0	6.7	28.5
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	242.8	-58.7	3.7	-5.7	-0.1		0.0	0.0	19.9	0.0	6.7	26.6
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	245.4	-58.8	3.8	-11.1	-1.6		0.0	0.0	6.4	0.0	6.7	13.0
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	241.7	-58.7	3.7	-7.4	-0.1		0.0	0.0	21.2	0.0	6.7	27.9
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	248.2	-58.9	3.7	-13.8	-0.1		0.0	0.0	5.9	0.0	6.7	12.6
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	247.2	-58.9	3.7	-13.4	-0.1		0.0	0.0	12.2	0.0	6.7	18.9
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	248.9	-58.9	3.8	-21.9	-1.1		0.0	0.9	-3.1	0.0	6.7	3.6
Fin Fan XF 616 - Above	CNEL	96.0	75	330.2	-61.4	2.8	-2.6	-0.7		-11.3	0.0	22.9	0.0	6.7	29.5
Fin Fan XF 616 - Below	CNEL	108.0	75	330.2	-61.4	2.8	-3.6	-0.9		-8.1	0.0	36.9	0.0	6.7	43.6
Fin Fan XF 617 - Above	CNEL	93.0	21	330.8	-61.4	2.8	-5.6	-0.6		-11.5	0.0	16.7	0.0	6.7	23.4
Fin Fan XF 617 - Below	CNEL	104.0	21	330.8	-61.4	2.8	-7.8	-0.7		-8.0	0.0	28.9	0.0	6.7	35.6
Heater # 5-Heater	CNEL	91.1	13	351.4	-61.9	4.7	-19.5	-0.8		0.0	1.3	17.9	0.0	6.7	24.6
Heater # 5-Heater	CNEL	91.1	13	350.7	-61.9	4.6	-19.6	-0.8		0.0	1.7	18.1	0.0	6.7	24.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	350.1	-61.9	4.6	-19.5	-0.8		0.0	0.0	16.5	0.0	6.7	23.2
Heater H 601	CNEL	89.1	13	352.6	-61.9	4.5	-10.2	-0.6		0.0	0.0	20.9	0.0	6.7	27.6
Hydro Heater H-402	CNEL	98.1		267.7	-59.5	4.1	-21.5	-0.8		0.0	0.0	20.4	0.0	6.7	27.0
ID Fan	CNEL	110.3		321.2	-61.1	3.7	-20.1	-0.6		0.0	0.7	32.8	0.0	6.7	39.4
ID Fan 200 HP Motor	CNEL	104.4		321.8	-61.1	4.3	-23.5	-2.2		0.0	1.2	23.0	0.0	6.7	29.7
Incinirator Compressor & Motor	CNEL	92.5		398.9	-63.0	5.0	-14.3	-0.6		0.0	0.8	20.4	0.0	6.7	27.1
Incinirator Fin Fan	CNEL	94.8		398.9	-63.0	4.9	-13.1	-0.4		0.0	1.1	24.3	0.0	6.7	30.9
Lub Oil Cooler XF-061	CNEL	100.5		242.6	-58.7	4.0	-12.4	-0.4		0.0	2.7	35.8	0.0	6.7	42.4
Misc pumps motors	CNEL	100.2	332	152.3	-54.6	2.9	-5.1	-2.0		0.0	0.0	41.5	0.0	6.7	48.1
Motor & Pump P 56A/B	CNEL	93.7		265.2	-59.5	4.3	-20.7	-1.3	-0.51	0.0	0.0	15.9	0.0	6.7	22.6
Motor & Pump P 120/121	CNEL	96.2	2	255.2	-59.1	4.2	-20.1	-0.8	-0.23	0.0	0.0	20.1	0.0	6.7	26.8
Motor & Pump P 211/212	CNEL	93.7		295.3	-60.4	4.5	-20.8	-1.4	-1.05	0.0	0.0	14.6	0.0	6.7	21.2
Motor & Pump P 215/214	CNEL	94.6		292.7	-60.3	4.5	-20.7	-1.3	-1.04	0.0	14.1	29.8	0.0	6.7	36.4
Motor & Pump P 216	CNEL	98.3		300.5	-60.6	4.4	-18.1	-1.3	-1.21	0.0	0.0	21.6	0.0	6.7	28.2
Motor & Pump P 217/218	CNEL	93.7		294.5	-60.4	4.7	-22.7	-1.8	-0.44	0.0	1.9	15.0	0.0	6.7	21.7
Motor & Pump P 300	CNEL	97.1	2	265.3	-59.5	4.3	-20.7	-0.9		0.0	0.3	20.6	0.0	6.7	27.3
Motor & Pump P 301	CNEL	102.1	2	265.9	-59.5	4.3	-19.8	-0.9		0.0	0.7	26.9	0.0	6.7	33.5
Motor & Pump P 302	CNEL	97.1	2	264.6	-59.4	4.3	-19.6	-0.8		0.0	0.0	21.5	0.0	6.7	28.2
Motor & Pump P 303	CNEL	97.1	2	264.2	-59.4	4.2	-20.3	-0.9		0.0	0.6	21.3	0.0	6.7	28.0
Motor & Pump P 305	CNEL	97.5	2	263.6	-59.4	4.2	-21.1	-0.9		0.0	0.5	20.8	0.0	6.7	27.5
Motor & Pump P 306	CNEL	112.6	4	260.4	-59.3	3.9	-21.6	-1.1		0.0	0.2	34.8	0.0	6.7	41.4
Motor & Pump P 307	CNEL	102.1	2	267.8	-59.5	4.3	-19.3	-0.8	-0.19	0.0	1.9	28.4	0.0	6.7	35.0
Motor & Pump P 309	CNEL	97.5	2	263.1	-59.4	4.2	-22.8	-1.0		0.0	0.1	18.6	0.0	6.7	25.2
Motor & Pump P 312	CNEL	101.5	2	277.3	-59.8	4.5	-21.3	-0.9	-0.25	0.0	0.0	23.7	0.0	6.7	30.4
Motor & Pump P 313	CNEL	101.5	2	278.1	-59.9	4.5	-21.2	-0.9	-0.25	0.0	0.0	23.7	0.0	6.7	30.4
Motor & Pump P 315	CNEL	102.9	2	281.4	-60.0	4.4	-21.2	-1.0	-0.26	0.0	1.7	26.7	0.0	6.7	33.4
Motor & Pump P 316	CNEL	102.9	2	282.4	-60.0	4.5	-21.0	-0.9	-0.28	0.0	0.0	25.1	0.0	6.7	31.7
Motor & Pump P 317	CNEL	102.9	2	283.3	-60.0	4.4	-19.5	-0.9	-0.26	0.0	0.0	26.6	0.0	6.7	33.3
Motor & Pump P 318	CNEL	100.2	1	280.0	-59.9	4.6	-22.1	-1.0	-0.46	0.0	2.1	23.5	0.0	6.7	30.1
Motor & Pump P 319	CNEL	100.2	1	279.3	-59.9	4.6	-21.7	-1.0	-0.25	0.0	1.5	23.4	0.0	6.7	30.1
Motor & Pump P 327	CNEL	111.2	3	258.5	-59.2	4.2	-23.0	-1.6		0.0	1.2	32.9	0.0	6.7	39.6
Motor & Pump P 328	CNEL	109.9	5	262.3	-59.4	4.1	-21.4	-0.9		0.0	0.0	32.3	0.0	6.7	38.9
Motor & Pump P 329	CNEL	110.2	5	261.3	-59.3	4.0	-22.4	-1.0		0.0	0.0	31.6	0.0	6.7	38.3
Motor & Pump P 451	CNEL	93.7		271.0	-59.7	4.3	-23.2	-1.8		0.0	0.0	13.4	0.0	6.7	20.0
Motor & Pump P 453	CNEL	93.7		276.3	-59.8	4.3	-21.8	-1.4		0.0	0.0	15.0	0.0	6.7	21.6
Motor & Pump P 454	CNEL	93.7		271.9	-59.7	4.3	-21.5	-1.4	-0.01	0.0	0.0	15.5	0.0	6.7	22.1
Motor & Pump P 457	CNEL	93.7		277.3	-59.9	4.4	-21.9	-1.4		0.0	7.2	22.0	0.0	6.7	28.7
Motor & Pump P 458	CNEL	93.7		270.1	-59.6	4.3	-23.2	-1.8		0.0	0.1	13.5	0.0	6.7	20.1
Motor & Pump P 459	CNEL	93.7		271.3	-59.7	4.3	-21.5	-1.4	-0.04	0.0	0.0	15.5	0.0	6.7	22.1
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		242.2	-58.7	4.2	-21.9	-1.4	-0.36	0.0	2.1	20.2	0.0	6.7	26.9
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		241.3	-58.6	4.2	-21.9	-1.4	-0.36	0.0	2.1	20.2	0.0	6.7	26.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		215.8	-57.7	4.0	-24.0	-1.7	-0.18	0.0	0.1	15.9	0.0	6.7	22.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		215.3	-57.7	4.0	-23.7	-1.5	-0.11	0.0	0.1	16.5	0.0	6.7	23.1
Motor & Pump P 1601 A	CNEL	96.3	2	219.4	-57.8	3.8	-22.3	-1.3		0.0	2.2	21.0	0.0	6.7	27.6
Motor & Pump P 1601 B	CNEL	96.3	2	218.2	-57.8	3.8	-21.6	-1.1		0.0	1.2	20.8	0.0	6.7	27.5
Motor & Pump P 1602 A	CNEL	96.3	2	217.4	-57.7	3.8	-21.6	-1.1		0.0	0.0	19.6	0.0	6.7	26.3
Motor & Pump P 1602 B	CNEL	96.5	2	216.2	-57.7	3.7	-21.6	-1.1		0.0	0.0	19.8	0.0	6.7	26.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	234.3	-58.4	4.2	-22.6	-1.4	-0.21	0.0	0.0	18.2	0.0	6.7	24.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	231.5	-58.3	4.2	-22.5	-1.4	-0.21	0.0	2.1	20.5	0.0	6.7	27.2
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	230.1	-58.2	4.2	-22.4	-1.4	-0.21	0.0	2.0	20.5	0.0	6.7	27.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	240.0	-58.6	4.2	-22.2	-1.4	-0.35	0.0	0.0	18.4	0.0	6.7	25.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	238.9	-58.6	4.2	-22.1	-1.4	-0.35	0.0	0.0	18.5	0.0	6.7	25.2
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	221.6	-57.9	4.1	-22.7	-1.4	-0.03	0.0	1.8	20.3	0.0	6.7	27.0
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	223.5	-58.0	4.1	-22.6	-1.4	-0.09	0.0	1.9	20.4	0.0	6.7	27.1
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	226.9	-58.1	4.1	-22.9	-1.5	-0.20	0.0	2.2	19.8	0.0	6.7	26.5
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	225.4	-58.1	4.1	-22.6	-1.4	-0.15	0.0	2.6	20.8	0.0	6.7	27.5
P602 100 HP	CNEL	94.1		335.7	-61.5	4.7	-2.2	-2.0		0.0	0.0	33.1	0.0	6.7	39.8
P603 60 HP	CNEL	95.0		335.6	-61.5	4.8	-3.9	-2.0		0.0	0.0	32.4	0.0	6.7	39.1
P605 40 HP	CNEL	95.0		335.6	-61.5	4.7	-3.0	-1.9		0.0	0.0	33.4	0.0	6.7	40.0
P607 15 HP	CNEL	90.5		336.0	-61.5	4.8	-9.5	-1.1		0.0	0.0	23.1	0.0	6.7	29.8
P608 15 HP	CNEL	90.5		336.1	-61.5	4.8	-11.6	-1.1		0.0	0.0	21.1	0.0	6.7	27.7
P611 15 HP	CNEL	90.5		335.8	-61.5	4.8	-6.0	-1.2		0.0	0.0	26.5	0.0	6.7	33.2
P614/615 20 HP	CNEL	93.0		327.8	-61.3	4.3	-0.7	-1.5		0.0	0.0	33.8	0.0	6.7	40.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	328.6	-61.3	4.7	-9.7	-0.6	-0.11	0.0	0.0	67.6	-38.6	0.0	29.0
Scanner Blower C-084A/B	CNEL	95.5		248.9	-58.9	4.0	-22.8	-0.9		0.0	0.6	17.4	0.0	6.7	24.1
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	254.7	-59.1	4.0	-15.0	-0.1		0.0	0.0	1.3	0.0	6.7	8.0
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	256.5	-59.2	4.0	-15.0	-0.1		0.0	0.0	-0.4	0.0	6.7	6.2
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	256.4	-59.2	3.4	-14.5	-0.2		0.0	0.0	-1.0	0.0	6.7	5.7
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	257.6	-59.2	4.0	-18.3	-0.1		0.0	0.0	-2.1	0.0	6.7	4.6
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	258.2	-59.2	4.0	-19.0	-0.2		0.0	0.0	-2.6	0.0	6.7	4.1
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	246.9	-58.8	3.8	-15.1	-0.2		0.0	0.0	9.7	0.0	6.7	16.4
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	244.9	-58.8	3.8	-8.5	-0.3		0.0	1.5	16.9	0.0	6.7	23.6
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	246.6	-58.8	3.8	-9.3	-0.3		0.0	0.0	25.5	0.0	6.7	32.1
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	245.0	-58.8	3.8	-9.8	-0.3		0.0	0.0	16.7	0.0	6.7	23.4
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	247.8	-58.9	2.9	-5.4	-0.4		0.0	0.0	23.7	0.0	6.7	30.3
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	249.3	-58.9	3.8	-16.7	-0.2		0.0	0.0	18.1	0.0	6.7	24.8
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	246.3	-58.8	3.8	-16.6	-0.2		0.0	0.0	9.6	0.0	6.7	16.3
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	240.4	-58.6	4.0	-12.2	-0.6		0.0	0.0	31.8	0.0	6.7	38.5
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	241.3	-58.6	4.0	-12.6	-0.6		0.0	0.0	36.8	0.0	6.7	43.5
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	242.8	-58.7	3.3	-8.6	-0.8		0.0	0.0	36.5	0.0	6.7	43.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	244.3	-58.8	4.0	-19.9	-0.8		0.0	0.2	29.4	0.0	6.7	36.1
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	244.3	-58.7	4.0	-20.2	-0.8		0.0	0.2	17.9	0.0	6.7	24.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	246.4	-58.8	4.0	-20.0	-0.8		0.0	0.2	18.2	0.0	6.7	24.9
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	252.6	-59.0	3.0	-12.3	-0.2		0.0	0.0	9.4	0.0	6.7	16.1
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	248.5	-58.9	3.8	-14.8	-0.1		0.0	0.0	1.8	0.0	6.7	8.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	250.1	-59.0	3.8	-15.7	-0.2		0.0	0.0	7.9	0.0	6.7	14.6
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	253.0	-59.1	3.8	-15.7	-0.2		0.0	0.0	2.2	0.0	6.7	8.9
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	252.2	-59.0	3.8	-19.3	-0.2		0.0	0.0	-0.8	0.0	6.7	5.9
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	255.1	-59.1	3.8	-19.4	-0.2		0.0	0.0	4.2	0.0	6.7	10.8
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	256.9	-59.2	3.9	-19.4	-0.2		0.0	0.0	-1.6	0.0	6.7	5.1
Tank Farm Pump 1	CNEL	99.0	3	184.0	-56.3	3.9	-19.2	-0.9		0.0	0.1	26.5	0.0	6.7	33.2
Tank Farm Pump 2	CNEL	99.0	3	194.1	-56.8	4.0	-19.3	-0.9		0.0	0.2	26.3	0.0	6.7	33.0
Tank Farm Pump 3	CNEL	99.0	3	197.5	-56.9	4.0	-22.0	-1.1		0.0	0.6	23.6	0.0	6.7	30.2
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	401.2	-63.1	4.0	-8.4	-3.3	-0.06	0.0	0.1	41.6	-16.8	0.0	24.8
Vaporizer Blower 1	CNEL	88.7		245.1	-58.8	4.4	-16.2	-0.7		0.0	3.0	20.4	0.0	6.7	27.0
Vaporizer Blower 2	CNEL	88.7		244.6	-58.8	4.4	-16.4	-0.7		0.0	3.2	20.3	0.0	6.7	27.0
Vaporizer Inlet Silencer	CNEL	73.7		244.0	-58.7	3.5	-8.9	-0.3		0.0	2.6	11.9	0.0	6.7	18.5
Vaporizer Motor 1	CNEL	83.6		245.3	-58.8	4.4	-17.2	-0.9		0.0	3.1	14.2	0.0	6.7	20.9
Vaporizer Motor 2	CNEL	83.6		244.8	-58.8	4.4	-17.4	-0.9		0.0	3.2	14.2	0.0	6.7	20.9
Water Treatment Pumps P-056A&B	CNEL	93.0		263.1	-59.4	4.6	-23.4	-1.4		0.0	0.0	13.5	0.0	6.7	20.1
XF-1502 Splitter Area 1	CNEL	104.5		227.4	-58.1	2.7	-12.7	-0.9	0.00	-3.2	0.0	32.2	0.0	6.7	38.9
XF-1502 Splitter Area 2	CNEL	104.5		229.6	-58.2	2.7	-14.4	-0.9		-3.1	0.0	30.7	0.0	6.7	37.4
XF-1504 Splitter Area 1	CNEL	104.5		223.8	-58.0	2.7	-14.4	-0.8	-0.01	-3.1	0.0	30.9	0.0	6.7	37.6
XF-1504 Splitter Area 2	CNEL	104.5		226.0	-58.1	2.7	-15.5	-0.8		-3.0	0.0	29.8	0.0	6.7	36.5
XF 304, XF 321	CNEL	110.5	56	272.0	-59.7	2.5	-15.3	-0.4		-1.6	0.0	35.9	0.0	6.7	42.6
XF 313, XF 314	CNEL	113.0	18	261.7	-59.3	2.4	-17.7	-0.6		-2.7	0.1	35.1	0.0	6.7	41.8
XF 335-1, XF 335-2	CNEL	113.4	54	267.5	-59.5	2.5	-16.1	-0.6	0.00	-1.8	0.0	37.9	0.0	6.7	44.6
XF 503	CNEL	113.0	21	279.4	-59.9	2.8	-3.4	-3.0	-0.63	-3.8	0.0	45.1	0.0	6.7	51.8
XF - 1601	CNEL	96.6		218.7	-57.8	2.7	-8.5	-0.4		-1.5	0.0	31.0	0.0	6.7	37.7
XF - 1602	CNEL	96.6		214.2	-57.6	2.7	-9.2	-0.4		-1.5	0.0	30.6	0.0	6.7	37.3
XF Module 1510	CNEL	108.3		236.5	-58.5	2.7	-14.1	-0.9	-0.21	-3.1	0.0	34.2	0.0	6.7	40.9
XF Module 1519	CNEL	109.0		233.4	-58.4	2.7	-11.5	-1.0	-0.22	-3.4	0.0	37.3	0.0	6.7	44.0
xxxx xxxx xxxx xxxx	CNEL		606								21.2				42.4
xxxx xxxx xxxx xxxx	CNEL		606								21.3				42.5
xxxx xxxx xxxx xxxx	CNEL		917								2.2				28.4
xxxx xxxx xxxx xxxx	CNEL		917								2.1				28.4
xxxx xxxx xxxx xxxx	CNEL		608								12.8				39.4
xxxx xxxx xxxx xxxx	CNEL		608								13.1				39.4
xxxx xxxx xxxx xxxx	CNEL		1172								2.2				47.6
xxxx xxxx xxxx xxxx	CNEL		520								19.2				40.5
xxxx xxxx xxxx xxxx	CNEL		572								2.7				47.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver CA-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 55.7 dB(A)			Ld 7-19 dB(A)		Leq,N 55.6 dB(A)		Le 19-22 dB(A)		CNEL 62.3 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	251.6	-59.0	2.9	-4.4	-0.4		0.0	0.0	32.6	0.0	6.7	39.2
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	337.3	-61.6	4.6	-11.2	-1.8	-0.01	0.0	0.2	39.2	-10.8	0.0	28.4
Air Compressor C 1	CNEL	110.0	5	276.8	-59.8	4.1	-21.7	-0.8		0.0	2.8	34.6	0.0	6.7	41.3
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		269.5	-59.6	4.3	-16.2	-1.5		0.0	0.0	27.3	0.0	6.7	34.0
Asphalt Production	CNEL	113.8	1206	273.3	-59.7	3.5	-17.2	-1.2		0.0	0.1	39.2	0.0	6.7	45.9
BFW Pumps P-073A&B	CNEL	95.8		274.0	-59.7	4.4	-18.4	-1.0		0.0	0.0	21.1	0.0	6.7	27.8
Blower F 401	CNEL	113.0		321.6	-61.1	4.1	-15.5	-0.4	-0.23	0.0	0.3	40.2	0.0	6.7	46.9
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	354.0	-62.0	4.6	-6.6	-1.2		0.0	0.9	34.3	0.0	6.7	41.0
Brine Transfer P-085	CNEL	96.2		281.7	-60.0	4.7	-20.0	-1.1		0.0	0.0	19.8	0.0	6.7	26.5
Burner H301 North	CNEL	96.1	10	323.3	-61.2	4.0	-17.4	-1.2		0.0	0.2	23.6	0.0	6.7	30.2
Burner H301 South	CNEL	95.9	10	324.1	-61.2	4.1	-21.4	-1.5		0.0	1.3	20.1	0.0	6.7	26.8
Burner H302 North	CNEL	97.0	13	327.8	-61.3	4.1	-15.2	-1.1	-0.43	0.0	1.4	27.4	0.0	6.7	34.1
Burner H302 South	CNEL	97.0	13	328.6	-61.3	4.1	-22.7	-1.7	-0.21	0.0	0.9	19.1	0.0	6.7	25.7
Burner H303 North	CNEL	97.0	13	340.9	-61.6	4.3	-15.3	-1.1	-0.64	0.0	1.7	27.3	0.0	6.7	33.9
Burner H303 South	CNEL	97.0	13	342.3	-61.7	4.3	-21.1	-1.5	-0.31	0.0	2.7	22.3	0.0	6.7	29.0
Burner H304 North	CNEL	97.0	13	337.2	-61.6	4.3	-18.4	-1.3	-0.24	0.0	0.5	23.3	0.0	6.7	30.0
Burner H304 South	CNEL	97.0	13	338.5	-61.6	4.3	-22.0	-1.6	-0.19	0.0	0.7	19.6	0.0	6.7	26.3
Burner H305 North	CNEL	96.3	11	333.2	-61.4	4.2	-19.2	-1.3	-0.13	0.0	0.6	22.1	0.0	6.7	28.7
Burner H305 South	CNEL	96.3	11	334.4	-61.5	4.2	-22.6	-1.7	-0.13	0.0	0.0	17.7	0.0	6.7	24.4
Burner H306 North	CNEL	95.0	8	328.9	-61.3	4.2	-15.8	-1.1	-0.44	0.0	0.2	23.7	0.0	6.7	30.4
Burner H306 South	CNEL	95.1	8	329.8	-61.4	4.2	-21.4	-1.5	-0.12	0.0	0.2	18.0	0.0	6.7	24.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	322.7	-61.2	3.9	-16.2	-0.7	-0.74	1.4	0.4	31.7	0.0	6.7	38.4
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	316.7	-61.0	3.9	-13.8	-0.8	-0.50	0.0	0.4	28.8	0.0	6.7	35.4
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	325.6	-61.2	3.9	-10.4	-0.7	-0.47	3.4	0.4	41.4	0.0	6.7	48.1
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	332.4	-61.4	3.9	-22.1	-0.9	-0.53	-6.7	0.9	23.8	0.0	6.7	30.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	319.7	-61.1	3.9	-22.9	-1.0	-0.78	-6.7	1.1	16.2	0.0	6.7	22.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	338.6	-61.6	4.0	-21.1	-1.1	-0.29	-7.8	0.8	13.3	0.0	6.7	20.0
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	259.7	-59.3	3.7	-17.7	-0.6		1.9	0.9	26.7	0.0	6.7	33.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	269.7	-59.6	3.7	-21.3	-0.9		-7.8	0.8	12.7	0.0	6.7	19.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	241.1	-58.6	3.2	-16.9	-0.6		2.2	0.7	30.6	0.0	6.7	37.3
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	255.0	-59.1	3.4	-21.6	-0.9		-7.8	8.6	23.2	0.0	6.7	29.8
Cooling Tower M 512	CNEL	95.7		268.6	-59.6	4.2	-22.9	-1.1		0.0	1.6	17.9	0.0	6.7	24.6
Cooling Tower M 513	CNEL	95.7		269.8	-59.6	4.2	-22.6	-1.1		0.0	1.6	18.1	0.0	6.7	24.8
Cooling Tower M 514	CNEL	95.7		267.5	-59.5	4.2	-23.3	-1.2		0.0	1.8	17.7	0.0	6.7	24.4
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	312.7	-60.9	4.6	-4.8	-3.1		0.0	0.4	49.9	0.0	6.7	56.6
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	312.6	-60.9	4.0	-4.2	-2.9		0.0	0.3	50.1	0.0	6.7	56.8
CT Y-600-CT Y-600 North	CNEL	96.4	51	324.3	-61.2	3.8	-16.2	-0.7		0.0	0.1	25.2	0.0	6.7	31.9
CT Y-600-CT Y-600 South	CNEL	96.4	52	339.4	-61.6	3.9	-20.4	-1.1		0.0	0.0	20.3	0.0	6.7	27.0
Deaerator Skid P-058A&B	CNEL	96.2		262.8	-59.4	2.9	-4.7	-2.0		0.0	0.0	33.0	0.0	6.7	39.7
Exhaust Stack	CNEL	100.6		274.9	-59.8	2.7	-0.1	-0.5		0.0	0.0	43.0	0.0	6.7	49.7
F.G. After Cooler XF-083ABC	CNEL	100.2		261.2	-59.3	3.6	-7.8	-0.6		0.0	0.0	36.2	0.0	6.7	42.8
Fan Y-600	CNEL	107.5		331.4	-61.4	2.8	-20.5	-0.7		0.0	0.0	27.7	0.0	6.7	34.4
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	256.5	-59.2	2.8	-5.2	-0.1		0.0	0.0	20.7	0.0	6.7	27.4
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	253.9	-59.1	3.7	-6.5	-0.1		0.0	0.0	18.7	0.0	6.7	25.4
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	256.3	-59.2	3.8	-14.0	-1.1		0.0	0.0	3.7	0.0	6.7	10.3
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	253.4	-59.1	3.7	-7.6	-0.1		0.0	0.0	20.6	0.0	6.7	27.2
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	259.7	-59.3	3.7	-13.8	-0.1		0.0	0.0	5.5	0.0	6.7	12.2
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	259.4	-59.3	3.7	-13.8	-0.1		0.0	0.0	11.4	0.0	6.7	18.1
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	261.0	-59.3	3.8	-22.1	-1.2		0.0	0.0	-4.8	0.0	6.7	1.9
Fin Fan XF 616 - Above	CNEL	96.0	75	331.2	-61.4	2.8	-7.3	-0.6		-11.2	0.0	18.4	0.0	6.7	25.0
Fin Fan XF 616 - Below	CNEL	108.0	75	331.1	-61.4	2.8	-8.9	-0.7		-8.1	0.0	31.7	0.0	6.7	38.4
Fin Fan XF 617 - Above	CNEL	93.0	21	331.1	-61.4	2.8	-5.6	-0.6		-11.4	0.0	16.8	0.0	6.7	23.5
Fin Fan XF 617 - Below	CNEL	104.0	21	331.1	-61.4	2.8	-6.1	-0.8		-8.1	0.0	30.4	0.0	6.7	37.1
Heater # 5-Heater	CNEL	91.1	13	350.4	-61.9	4.6	-13.0	-0.7		0.0	4.0	27.1	0.0	6.7	33.7
Heater # 5-Heater	CNEL	91.1	13	350.1	-61.9	4.6	-16.1	-0.7		0.0	3.1	23.1	0.0	6.7	29.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	350.0	-61.9	4.6	-18.5	-0.8		0.0	0.0	17.5	0.0	6.7	24.2
Heater H 601	CNEL	89.1	13	352.9	-61.9	4.4	-7.1	-0.9		0.0	0.0	23.6	0.0	6.7	30.3
Hydro Heater H-402	CNEL	98.1		290.6	-60.3	4.2	-21.4	-0.8		0.0	0.0	19.8	0.0	6.7	26.4
ID Fan	CNEL	110.3		347.4	-61.8	3.8	-21.7	-0.8		0.0	0.9	30.6	0.0	6.7	37.3
ID Fan 200 HP Motor	CNEL	104.4		348.0	-61.8	4.3	-23.4	-2.3		0.0	0.6	21.7	0.0	6.7	28.4
Incinirator Compressor & Motor	CNEL	92.5		393.4	-62.9	4.9	-13.0	-0.6		0.0	0.0	20.9	0.0	6.7	27.6
Incinirator Fin Fan	CNEL	94.8		393.5	-62.9	4.9	-13.0	-0.5		0.0	0.0	23.3	0.0	6.7	29.9
Lub Oil Cooler XF-061	CNEL	100.5		257.2	-59.2	4.0	-11.7	-0.4		0.0	2.7	35.9	0.0	6.7	42.6
Misc pumps motors	CNEL	100.2	332	166.2	-55.4	3.0	-5.8	-2.0		0.0	0.2	40.1	0.0	6.7	46.8
Motor & Pump P 56A/B	CNEL	93.7		289.0	-60.2	4.3	-23.0	-1.9	-0.16	0.0	2.2	14.8	0.0	6.7	21.5
Motor & Pump P 120/121	CNEL	96.2	2	280.9	-60.0	4.2	-19.9	-0.9	-0.24	0.0	1.4	20.9	0.0	6.7	27.6
Motor & Pump P 211/212	CNEL	93.7		318.7	-61.1	4.5	-20.2	-1.4	-1.02	0.0	1.7	16.2	0.0	6.7	22.9
Motor & Pump P 215/214	CNEL	94.6		316.2	-61.0	4.5	-20.3	-1.4	-1.02	0.0	0.8	16.2	0.0	6.7	22.9
Motor & Pump P 216	CNEL	98.3		324.0	-61.2	4.4	-20.1	-1.6	-0.49	0.0	0.7	20.1	0.0	6.7	26.8
Motor & Pump P 217/218	CNEL	93.7		317.9	-61.0	4.7	-21.0	-1.5	-1.02	0.0	2.0	15.9	0.0	6.7	22.6
Motor & Pump P 300	CNEL	97.1	2	291.2	-60.3	4.3	-19.3	-0.9		0.0	0.0	21.0	0.0	6.7	27.6
Motor & Pump P 301	CNEL	102.1	2	291.8	-60.3	4.3	-18.9	-0.9		0.0	0.2	26.5	0.0	6.7	33.2
Motor & Pump P 302	CNEL	97.1	2	290.6	-60.3	4.3	-18.8	-0.9		0.0	0.0	21.5	0.0	6.7	28.1
Motor & Pump P 303	CNEL	97.1	2	290.2	-60.2	4.2	-19.7	-0.9		0.0	0.3	20.7	0.0	6.7	27.4
Motor & Pump P 305	CNEL	97.5	2	289.7	-60.2	4.2	-20.9	-1.0		0.0	1.0	20.7	0.0	6.7	27.4
Motor & Pump P 306	CNEL	112.6	4	286.6	-60.1	4.0	-21.1	-1.1		0.0	0.1	34.3	0.0	6.7	41.0
Motor & Pump P 307	CNEL	102.1	2	293.5	-60.3	4.3	-19.0	-0.9	-0.24	0.0	3.3	29.2	0.0	6.7	35.9
Motor & Pump P 309	CNEL	97.5	2	289.2	-60.2	4.2	-22.8	-1.1		0.0	0.1	17.8	0.0	6.7	24.4
Motor & Pump P 312	CNEL	101.5	2	302.3	-60.6	4.5	-21.1	-1.0	-0.25	0.0	1.5	24.6	0.0	6.7	31.2
Motor & Pump P 313	CNEL	101.5	2	303.0	-60.6	4.5	-21.1	-1.0	-0.27	0.0	1.5	24.6	0.0	6.7	31.2
Motor & Pump P 315	CNEL	102.9	2	306.1	-60.7	4.5	-20.6	-1.0	-0.58	0.0	3.4	27.9	0.0	6.7	34.6
Motor & Pump P 316	CNEL	102.9	2	307.0	-60.7	4.5	-21.9	-1.0	-0.58	0.0	2.1	25.2	0.0	6.7	31.9
Motor & Pump P 317	CNEL	102.9	2	307.9	-60.8	4.4	-20.8	-1.0	-0.59	0.0	2.0	26.2	0.0	6.7	32.8
Motor & Pump P 318	CNEL	100.2	1	304.8	-60.7	4.6	-22.0	-1.0	-0.58	0.0	3.6	24.1	0.0	6.7	30.8
Motor & Pump P 319	CNEL	100.2	1	304.1	-60.7	4.6	-21.5	-1.0	-0.33	0.0	2.8	24.1	0.0	6.7	30.8
Motor & Pump P 327	CNEL	111.2	3	285.0	-60.1	4.2	-23.0	-1.7		0.0	2.4	33.1	0.0	6.7	39.8
Motor & Pump P 328	CNEL	109.9	5	288.4	-60.2	4.1	-22.1	-1.0		0.0	0.0	30.8	0.0	6.7	37.4
Motor & Pump P 329	CNEL	110.2	5	287.5	-60.2	4.1	-22.1	-1.0		0.0	0.0	31.0	0.0	6.7	37.7
Motor & Pump P 451	CNEL	93.7		293.6	-60.3	4.3	-21.3	-1.4		0.0	1.6	16.5	0.0	6.7	23.2
Motor & Pump P 453	CNEL	93.7		298.3	-60.5	4.4	-20.8	-1.4		0.0	2.0	17.4	0.0	6.7	24.1
Motor & Pump P 454	CNEL	93.7		294.6	-60.4	4.3	-21.2	-1.4		0.0	1.6	16.6	0.0	6.7	23.3
Motor & Pump P 457	CNEL	93.7		299.2	-60.5	4.4	-20.3	-1.3		0.0	1.7	17.6	0.0	6.7	24.2
Motor & Pump P 458	CNEL	93.7		292.7	-60.3	4.3	-21.4	-1.4		0.0	1.6	16.4	0.0	6.7	23.1
Motor & Pump P 459	CNEL	93.7		294.0	-60.4	4.3	-23.0	-1.9		0.0	2.4	15.2	0.0	6.7	21.9
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		265.7	-59.5	4.2	-21.7	-1.4	-0.35	0.0	3.4	20.9	0.0	6.7	27.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		264.8	-59.4	4.2	-21.7	-1.4	-0.34	0.0	2.4	19.9	0.0	6.7	26.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		240.6	-58.6	4.1	-24.0	-1.8	-0.20	0.0	1.7	16.5	0.0	6.7	23.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		240.1	-58.6	4.1	-23.6	-1.6	-0.12	0.0	1.6	17.2	0.0	6.7	23.8
Motor & Pump P 1601 A	CNEL	96.3	2	241.8	-58.7	3.9	-20.7	-1.2		0.0	1.8	21.4	0.0	6.7	28.1
Motor & Pump P 1601 B	CNEL	96.3	2	240.5	-58.6	3.8	-20.7	-1.2		0.0	1.7	21.3	0.0	6.7	28.0
Motor & Pump P 1602 A	CNEL	96.3	2	239.7	-58.6	3.8	-20.7	-1.2		0.0	1.9	21.5	0.0	6.7	28.2
Motor & Pump P 1602 B	CNEL	96.5	2	238.5	-58.5	3.8	-20.8	-1.2		0.0	1.9	21.8	0.0	6.7	28.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	257.5	-59.2	4.3	-22.2	-1.4	-0.20	0.0	4.6	22.4	0.0	6.7	29.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	254.9	-59.1	4.2	-22.4	-1.5	-0.20	0.0	4.5	22.1	0.0	6.7	28.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	253.6	-59.1	4.2	-22.4	-1.4	-0.20	0.0	4.5	22.3	0.0	6.7	28.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	263.5	-59.4	4.2	-22.1	-1.4	-0.34	0.0	2.4	20.1	0.0	6.7	26.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	262.6	-59.4	4.2	-22.1	-1.4	-0.34	0.0	3.0	20.7	0.0	6.7	27.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	245.1	-58.8	4.2	-22.7	-1.5	-0.02	0.0	1.5	19.0	0.0	6.7	25.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	247.1	-58.8	4.2	-22.6	-1.5	-0.08	0.0	1.6	19.1	0.0	6.7	25.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	250.6	-59.0	4.2	-22.9	-1.6	-0.19	0.0	4.6	21.5	0.0	6.7	28.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	249.0	-58.9	4.2	-22.5	-1.5	-0.14	0.0	3.6	21.0	0.0	6.7	27.7
P602 100 HP	CNEL	94.1		337.1	-61.5	4.6	-14.7	-1.0		0.0	0.0	21.5	0.0	6.7	28.2
P603 60 HP	CNEL	95.0		337.4	-61.6	4.7	-18.3	-1.5		0.0	0.0	18.4	0.0	6.7	25.1
P605 40 HP	CNEL	95.0		337.3	-61.6	4.7	-18.0	-1.5		0.0	0.0	18.7	0.0	6.7	25.4
P607 15 HP	CNEL	90.5		336.9	-61.5	4.7	-11.2	-1.0		0.0	0.0	21.5	0.0	6.7	28.2
P608 15 HP	CNEL	90.5		336.8	-61.5	4.7	-10.4	-1.0		0.0	0.0	22.3	0.0	6.7	29.0
P611 15 HP	CNEL	90.5		336.9	-61.5	4.7	-14.1	-1.1		0.0	0.0	18.5	0.0	6.7	25.2
P614/615 20 HP	CNEL	93.0		329.3	-61.3	4.3	-16.1	-1.0		0.0	0.0	18.8	0.0	6.7	25.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	345.5	-61.8	4.7	-10.1	-0.6	-0.04	0.0	0.1	66.9	-38.6	0.0	28.3
Scanner Blower C-084A/B	CNEL	95.5		263.4	-59.4	4.0	-22.7	-0.9		0.0	0.0	16.5	0.0	6.7	23.2
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	271.0	-59.7	4.0	-8.1	-0.2		0.0	0.0	7.6	0.0	6.7	14.3
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	272.8	-59.7	4.0	-8.0	-0.2		0.0	0.0	6.0	0.0	6.7	12.6
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	272.6	-59.7	3.4	-6.9	-0.3		0.0	0.0	6.1	0.0	6.7	12.7
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	273.7	-59.7	4.0	-15.3	-0.1		0.0	0.0	0.4	0.0	6.7	7.1
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	274.5	-59.8	4.0	-15.5	-0.2		0.0	0.0	0.4	0.0	6.7	7.1
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	261.4	-59.3	3.8	-14.9	-0.3		0.0	0.0	9.5	0.0	6.7	16.2
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	259.6	-59.3	3.8	-8.1	-0.3		0.0	1.0	16.4	0.0	6.7	23.0
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	261.6	-59.3	3.8	-8.2	-0.3		0.0	0.0	26.1	0.0	6.7	32.8
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	259.5	-59.3	3.8	-9.2	-0.3		0.0	0.0	16.8	0.0	6.7	23.4
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	262.7	-59.4	3.0	-4.9	-0.5		0.0	0.0	23.7	0.0	6.7	30.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	264.1	-59.4	3.8	-16.5	-0.2		0.0	0.0	17.8	0.0	6.7	24.5
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	260.7	-59.3	3.8	-16.5	-0.2		0.0	0.0	9.2	0.0	6.7	15.9
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	253.9	-59.1	4.0	-11.9	-0.7		0.0	0.0	31.5	0.0	6.7	38.2
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	255.4	-59.1	4.0	-12.0	-0.7		0.0	0.0	36.9	0.0	6.7	43.5
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	256.8	-59.2	3.4	-8.1	-0.9		0.0	0.0	36.5	0.0	6.7	43.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	258.2	-59.2	4.0	-19.7	-0.8		0.0	0.0	28.9	0.0	6.7	35.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	258.8	-59.3	4.0	-20.0	-0.8		0.0	0.0	17.4	0.0	6.7	24.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	260.8	-59.3	4.0	-19.8	-0.8		0.0	0.0	17.7	0.0	6.7	24.3
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	268.3	-59.6	3.0	-4.9	-0.4		0.0	0.0	16.3	0.0	6.7	22.9
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	263.9	-59.4	3.8	-7.6	-0.2		0.0	0.0	8.5	0.0	6.7	15.1
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	265.9	-59.5	3.9	-8.1	-0.3		0.0	0.0	14.9	0.0	6.7	21.5
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	269.1	-59.6	3.9	-8.0	-0.3		0.0	0.0	9.4	0.0	6.7	16.1
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	267.4	-59.5	3.9	-16.0	-0.2		0.0	0.0	1.9	0.0	6.7	8.6
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	270.7	-59.6	3.9	-16.2	-0.2		0.0	0.0	6.8	0.0	6.7	13.5
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	272.8	-59.7	3.9	-16.2	-0.2		0.0	0.0	1.1	0.0	6.7	7.8
Tank Farm Pump 1	CNEL	99.0	3	175.3	-55.9	3.7	-18.1	-0.8		0.0	0.2	28.2	0.0	6.7	34.9
Tank Farm Pump 2	CNEL	99.0	3	182.7	-56.2	3.7	-20.1	-1.0		0.0	0.5	25.9	0.0	6.7	32.6
Tank Farm Pump 3	CNEL	99.0	3	185.4	-56.4	3.8	-21.0	-1.0		0.0	0.1	24.5	0.0	6.7	31.2
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	424.4	-63.5	4.0	-10.3	-2.5	-0.02	0.0	0.1	40.1	-16.8	0.0	23.2
Vaporizer Blower 1	CNEL	88.7		260.2	-59.3	4.4	-15.5	-0.7		0.0	2.8	20.3	0.0	6.7	26.9
Vaporizer Blower 2	CNEL	88.7		259.7	-59.3	4.4	-15.8	-0.7		0.0	3.0	20.2	0.0	6.7	26.9
Vaporizer Inlet Silencer	CNEL	73.7		259.0	-59.3	3.6	-8.6	-0.4		0.0	2.6	11.7	0.0	6.7	18.4
Vaporizer Motor 1	CNEL	83.6		260.4	-59.3	4.4	-16.5	-0.9		0.0	2.8	14.1	0.0	6.7	20.8
Vaporizer Motor 2	CNEL	83.6		260.0	-59.3	4.4	-16.7	-0.9		0.0	3.0	14.1	0.0	6.7	20.8
Water Treatment Pumps P-056A&B	CNEL	93.0		278.5	-59.9	4.6	-20.7	-1.1		0.0	0.0	15.9	0.0	6.7	22.6
XF-1502 Splitter Area 1	CNEL	104.5		250.9	-59.0	2.7	-17.0	-0.9	0.00	-2.9	1.0	28.5	0.0	6.7	35.1
XF-1502 Splitter Area 2	CNEL	104.5		252.9	-59.1	2.7	-17.3	-0.9		-2.9	1.1	28.2	0.0	6.7	34.9
XF-1504 Splitter Area 1	CNEL	104.5		247.2	-58.9	2.7	-17.4	-0.9	-0.01	-2.9	1.1	28.2	0.0	6.7	34.9
XF-1504 Splitter Area 2	CNEL	104.5		249.2	-58.9	2.7	-17.6	-0.9		-2.9	1.1	28.1	0.0	6.7	34.7
XF 304, XF 321	CNEL	110.5	56	297.8	-60.5	2.4	-13.8	-0.5		-1.7	0.0	36.5	0.0	6.7	43.2
XF 313, XF 314	CNEL	113.0	18	288.6	-60.2	2.4	-17.1	-0.7		-2.7	0.9	35.7	0.0	6.7	42.4
XF 335-1, XF 335-2	CNEL	113.4	54	293.6	-60.3	2.4	-15.6	-0.6	0.00	-1.8	0.0	37.4	0.0	6.7	44.1
XF 503	CNEL	113.0	21	303.3	-60.6	2.7	-15.4	-1.0	-0.42	-2.9	0.5	36.0	0.0	6.7	42.7
XF - 1601	CNEL	96.6		241.0	-58.6	2.6	-7.9	-0.5		-1.8	0.8	31.3	0.0	6.7	38.0
XF - 1602	CNEL	96.6		236.2	-58.5	2.6	-8.0	-0.5		-1.8	0.8	31.4	0.0	6.7	38.1
XF Module 1510	CNEL	108.3		259.8	-59.3	2.7	-17.5	-0.9	-0.20	-2.8	1.0	31.3	0.0	6.7	38.0
XF Module 1519	CNEL	109.0		257.0	-59.2	2.7	-17.0	-0.9	-0.20	-2.9	0.9	32.4	0.0	6.7	39.1
xxxx xxxx xxxx xxxx	CNEL		606								9.3				34.9
xxxx xxxx xxxx xxxx	CNEL		606								9.6				35.2
xxxx xxxx xxxx xxxx	CNEL		917								3.4				24.6
xxxx xxxx xxxx xxxx	CNEL		917								3.3				25.1
xxxx xxxx xxxx xxxx	CNEL		608								7.4				26.5
xxxx xxxx xxxx xxxx	CNEL		608								7.4				26.6
xxxx xxxx xxxx xxxx	CNEL		1172								6.6				42.2
xxxx xxxx xxxx xxxx	CNEL		520								10.7				37.1
xxxx xxxx xxxx xxxx	CNEL		572								4.0				44.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver CA-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 54.6 dB(A)			Ld 7-19 dB(A)		Leq,N 54.4 dB(A)		Le 19-22 dB(A)		CNEL 61.1 dB(A)		Lmax day hr dB(A)		Ld 7-1
2.8-Open Intake	CNEL	90.5	8	258.0	-59.2	2.9	-4.7	-0.1		0.0	0.0	32.4	0.0	6.7	39.1
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	344.6	-61.7	4.6	-12.9	-1.9	-0.01	0.0	0.0	37.1	-10.8	0.0	26.3
Air Compressor C 1	CNEL	110.0	5	290.5	-60.3	4.2	-21.8	-0.8		0.0	2.9	34.3	0.0	6.7	41.0
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		275.8	-59.8	4.3	-23.0	-2.2		0.0	0.0	19.6	0.0	6.7	26.3
Asphalt Production	CNEL	113.8	1206	275.8	-59.8	3.5	-18.6	-1.2		0.0	0.4	38.2	0.0	6.7	44.9
BFW Pumps P-073A&B	CNEL	95.8		280.8	-60.0	4.5	-22.8	-1.4		0.0	0.0	16.2	0.0	6.7	22.9
Blower F 401	CNEL	113.0		332.4	-61.4	4.2	-14.7	-0.4	-0.22	0.0	0.0	40.4	0.0	6.7	47.1
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	352.0	-61.9	4.6	-11.0	-0.9		0.0	0.2	29.6	0.0	6.7	36.2
Brine Transfer P-085	CNEL	96.2		289.0	-60.2	4.7	-23.3	-1.5		0.0	0.1	16.0	0.0	6.7	22.7
Burner H301 North	CNEL	96.1	10	337.5	-61.6	4.1	-19.5	-1.2		0.0	0.2	21.1	0.0	6.7	27.7
Burner H301 South	CNEL	95.9	10	338.3	-61.6	4.1	-20.8	-1.5		0.0	0.1	19.4	0.0	6.7	26.0
Burner H302 North	CNEL	97.0	13	341.8	-61.7	4.2	-15.7	-1.1	-0.43	0.0	0.0	25.2	0.0	6.7	31.9
Burner H302 South	CNEL	97.0	13	342.5	-61.7	4.2	-22.6	-1.7	-0.20	0.0	0.0	18.0	0.0	6.7	24.7
Burner H303 North	CNEL	97.0	13	354.2	-62.0	4.4	-15.8	-1.2	-0.67	0.0	0.3	25.0	0.0	6.7	31.7
Burner H303 South	CNEL	97.0	13	355.5	-62.0	4.4	-20.1	-1.5	-0.51	0.0	0.6	20.9	0.0	6.7	27.6
Burner H304 North	CNEL	97.0	13	350.7	-61.9	4.3	-18.5	-1.3	-0.23	0.0	0.5	22.9	0.0	6.7	29.6
Burner H304 South	CNEL	97.0	13	351.9	-61.9	4.3	-21.5	-1.6	-0.09	0.0	0.0	19.3	0.0	6.7	25.9
Burner H305 North	CNEL	96.3	11	346.8	-61.8	4.3	-18.6	-1.3		0.0	0.7	22.7	0.0	6.7	29.3
Burner H305 South	CNEL	96.3	11	348.0	-61.8	4.3	-22.3	-1.7	-0.22	0.0	0.1	17.7	0.0	6.7	24.4
Burner H306 North	CNEL	95.0	8	342.6	-61.7	4.3	-15.5	-1.1	-0.43	0.0	0.2	23.8	0.0	6.7	30.4
Burner H306 South	CNEL	95.1	8	343.5	-61.7	4.3	-22.8	-1.8	-0.12	0.0	0.2	16.1	0.0	6.7	22.8
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	335.0	-61.5	4.0	-18.0	-0.7	-0.76	1.2	0.0	29.0	0.0	6.7	35.7
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	329.0	-61.3	4.0	-16.2	-0.8	-0.59	0.0	0.0	25.6	0.0	6.7	32.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	338.1	-61.6	4.0	-12.4	-0.6	-0.34	3.6	0.0	39.1	0.0	6.7	45.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	344.7	-61.7	4.0	-22.1	-1.0	-0.51	-6.4	0.0	22.9	0.0	6.7	29.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	332.0	-61.4	4.0	-22.2	-1.0	-0.62	-6.5	0.0	16.0	0.0	6.7	22.7
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	351.1	-61.9	4.0	-20.8	-1.1	-0.22	-7.8	0.0	12.7	0.0	6.7	19.3
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	270.7	-59.6	3.8	-17.7	-0.6		1.7	0.0	25.3	0.0	6.7	32.0
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	281.1	-60.0	3.8	-21.6	-1.0		-7.8	0.0	11.2	0.0	6.7	17.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	251.5	-59.0	3.3	-15.9	-0.6		2.0	0.0	30.3	0.0	6.7	37.0
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	265.9	-59.5	3.5	-21.9	-1.0		-7.8	7.8	21.9	0.0	6.7	28.5
Cooling Tower M 512	CNEL	95.7		279.6	-59.9	4.3	-23.4	-1.2		0.0	0.0	15.5	0.0	6.7	22.1
Cooling Tower M 513	CNEL	95.7		280.9	-60.0	4.3	-21.4	-1.1		0.0	0.0	17.4	0.0	6.7	24.1
Cooling Tower M 514	CNEL	95.7		278.5	-59.9	4.3	-22.8	-1.2		0.0	0.0	16.2	0.0	6.7	22.8
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	310.6	-60.8	4.6	-5.8	-3.4		0.0	0.3	48.6	0.0	6.7	55.3
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	310.5	-60.8	4.1	-5.1	-3.0		0.0	0.2	49.1	0.0	6.7	55.7
CT Y-600-CT Y-600 North	CNEL	96.4	51	324.7	-61.2	3.9	-7.6	-1.0		0.0	0.0	33.5	0.0	6.7	40.2
CT Y-600-CT Y-600 South	CNEL	96.4	52	339.7	-61.6	4.0	-17.7	-0.9		0.0	0.0	23.1	0.0	6.7	29.8
Deaerator Skid P-058A&B	CNEL	96.2		269.8	-59.6	2.9	-11.5	-0.9		0.0	0.0	27.0	0.0	6.7	33.7
Exhaust Stack	CNEL	100.6		282.7	-60.0	2.7	-3.7	-0.5		0.0	0.0	39.2	0.0	6.7	45.9
F.G. After Cooler XF-083ABC	CNEL	100.2		266.8	-59.5	3.7	-18.2	-0.4		0.0	0.0	25.8	0.0	6.7	32.5
Fan Y-600	CNEL	107.5		331.8	-61.4	2.9	-16.2	-0.7		0.0	0.0	32.1	0.0	6.7	38.7
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	261.7	-59.3	2.9	-12.3	-0.1		0.0	0.0	13.6	0.0	6.7	20.3
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	258.7	-59.2	3.8	-12.0	-0.1		0.0	0.0	13.2	0.0	6.7	19.9
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	261.2	-59.3	3.8	-20.4	-0.9		0.0	7.1	4.5	0.0	6.7	11.1
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	258.7	-59.2	3.8	-13.5	-0.1		0.0	0.0	14.7	0.0	6.7	21.3
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	264.8	-59.5	3.8	-17.0	-0.1		0.0	0.0	2.1	0.0	6.7	8.8
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	264.9	-59.5	3.8	-16.8	-0.1		0.0	0.0	8.2	0.0	6.7	14.9
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	266.5	-59.5	3.9	-23.0	-1.6		0.0	0.9	-5.1	0.0	6.7	1.5
Fin Fan XF 616 - Above	CNEL	96.0	75	330.2	-61.4	2.8	0.0	-0.8		-11.3	0.0	25.4	0.0	6.7	32.0
Fin Fan XF 616 - Below	CNEL	108.0	75	330.1	-61.4	2.8	0.0	-1.1		-8.1	0.0	40.2	0.0	6.7	46.9
Fin Fan XF 617 - Above	CNEL	93.0	21	329.8	-61.4	2.8	0.0	-0.8		-11.4	0.0	22.2	0.0	6.7	28.9
Fin Fan XF 617 - Below	CNEL	104.0	21	329.8	-61.4	2.8	0.0	-1.1		-8.0	0.0	36.3	0.0	6.7	43.0
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-18.1	-0.8		0.0	0.8	18.7	0.0	6.7	25.4
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-18.7	-0.8		0.0	1.6	19.1	0.0	6.7	25.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-14.3	-0.7		0.0	0.0	21.9	0.0	6.7	28.5
Heater H 601	CNEL	89.1	13	351.7	-61.9	4.5	-1.5	-2.1		0.0	0.0	28.0	0.0	6.7	34.7
Hydro Heater H-402	CNEL	98.1		302.2	-60.6	4.2	-21.7	-0.9		0.0	0.0	19.2	0.0	6.7	25.8
ID Fan	CNEL	110.3		361.2	-62.1	3.9	-21.8	-0.8		0.0	1.1	30.4	0.0	6.7	37.1
ID Fan 200 HP Motor	CNEL	104.4		361.8	-62.2	4.4	-23.6	-2.4		0.0	0.6	21.2	0.0	6.7	27.9
Incinirator Compressor & Motor	CNEL	92.5		388.8	-62.8	4.9	-16.1	-0.6		0.0	0.0	17.9	0.0	6.7	24.6
Incinirator Fin Fan	CNEL	94.8		388.9	-62.8	4.9	-15.1	-0.5		0.0	0.0	21.3	0.0	6.7	28.0
Lub Oil Cooler XF-061	CNEL	100.5		264.0	-59.4	4.1	-19.4	-0.4		0.0	2.2	27.6	0.0	6.7	34.2
Misc pumps motors	CNEL	100.2	332	173.2	-55.8	3.1	-15.9	-1.7		0.0	0.3	30.3	0.0	6.7	36.9
Motor & Pump P 56A/B	CNEL	93.7		301.1	-60.6	4.4	-21.8	-1.6	-0.49	0.0	0.1	13.6	0.0	6.7	20.3
Motor & Pump P 120/121	CNEL	96.2	2	294.2	-60.4	4.3	-20.7	-0.9	-0.24	0.0	0.0	18.3	0.0	6.7	25.0
Motor & Pump P 211/212	CNEL	93.7		330.4	-61.4	4.6	-19.8	-1.4	-0.99	0.0	0.0	14.7	0.0	6.7	21.3
Motor & Pump P 215/214	CNEL	94.6		328.1	-61.3	4.6	-22.6	-1.9	-0.40	0.0	0.0	12.9	0.0	6.7	19.6
Motor & Pump P 216	CNEL	98.3		335.9	-61.5	4.5	-19.6	-1.4	-1.16	0.0	0.0	19.1	0.0	6.7	25.8
Motor & Pump P 217/218	CNEL	93.7		329.7	-61.4	4.8	-20.3	-1.4	-1.00	0.0	0.0	14.3	0.0	6.7	21.0
Motor & Pump P 300	CNEL	97.1	2	304.7	-60.7	4.4	-19.3	-0.9		0.0	0.0	20.6	0.0	6.7	27.2
Motor & Pump P 301	CNEL	102.1	2	305.2	-60.7	4.4	-19.4	-0.9	0.00	0.0	0.2	25.6	0.0	6.7	32.3
Motor & Pump P 302	CNEL	97.1	2	304.1	-60.7	4.4	-19.3	-0.9		0.0	0.0	20.6	0.0	6.7	27.3
Motor & Pump P 303	CNEL	97.1	2	303.7	-60.6	4.3	-18.9	-0.9		0.0	0.0	21.0	0.0	6.7	27.7
Motor & Pump P 305	CNEL	97.5	2	303.3	-60.6	4.3	-20.8	-1.0		0.0	1.2	20.6	0.0	6.7	27.3
Motor & Pump P 306	CNEL	112.6	4	300.4	-60.5	4.1	-21.4	-1.2		0.0	0.1	33.7	0.0	6.7	40.3
Motor & Pump P 307	CNEL	102.1	2	306.9	-60.7	4.4	-19.8	-1.0	-0.24	0.0	1.9	26.6	0.0	6.7	33.3
Motor & Pump P 309	CNEL	97.5	2	302.8	-60.6	4.3	-22.8	-1.1		0.0	0.1	17.4	0.0	6.7	24.1
Motor & Pump P 312	CNEL	101.5	2	315.1	-61.0	4.6	-21.8	-1.1	-0.42	0.0	0.0	21.8	0.0	6.7	28.5
Motor & Pump P 313	CNEL	101.5	2	315.9	-61.0	4.6	-21.8	-1.1	-0.50	0.0	0.0	21.8	0.0	6.7	28.4
Motor & Pump P 315	CNEL	102.9	2	318.8	-61.1	4.5	-22.2	-1.1	-0.25	0.0	2.4	25.1	0.0	6.7	31.8
Motor & Pump P 316	CNEL	102.9	2	319.7	-61.1	4.5	-20.5	-1.0	-0.58	0.0	0.3	24.5	0.0	6.7	31.1
Motor & Pump P 317	CNEL	102.9	2	320.5	-61.1	4.5	-20.4	-1.0	-0.49	0.0	0.0	24.4	0.0	6.7	31.0
Motor & Pump P 318	CNEL	100.2	1	317.5	-61.0	4.7	-22.1	-1.1	-0.57	0.0	1.7	21.8	0.0	6.7	28.4
Motor & Pump P 319	CNEL	100.2	1	316.9	-61.0	4.7	-21.7	-1.1	-0.58	0.0	0.8	21.3	0.0	6.7	28.0
Motor & Pump P 327	CNEL	111.2	3	298.9	-60.5	4.3	-23.1	-1.7		0.0	1.0	31.2	0.0	6.7	37.9
Motor & Pump P 328	CNEL	109.9	5	302.1	-60.6	4.2	-22.5	-1.1		0.0	0.1	30.0	0.0	6.7	36.7
Motor & Pump P 329	CNEL	110.2	5	301.2	-60.6	4.2	-22.8	-1.1		0.0	0.0	29.9	0.0	6.7	36.6
Motor & Pump P 451	CNEL	93.7		304.9	-60.7	4.4	-21.3	-1.4		0.0	0.0	14.7	0.0	6.7	21.4
Motor & Pump P 453	CNEL	93.7		309.2	-60.8	4.4	-20.9	-1.4		0.0	0.2	15.2	0.0	6.7	21.9
Motor & Pump P 454	CNEL	93.7		305.9	-60.7	4.4	-21.2	-1.4		0.0	0.0	14.7	0.0	6.7	21.4
Motor & Pump P 457	CNEL	93.7		310.1	-60.8	4.4	-20.8	-1.4		0.0	0.5	15.6	0.0	6.7	22.3
Motor & Pump P 458	CNEL	93.7		304.0	-60.6	4.4	-21.3	-1.5		0.0	0.0	14.6	0.0	6.7	21.3
Motor & Pump P 459	CNEL	93.7		305.4	-60.7	4.4	-21.2	-1.4		0.0	0.0	14.8	0.0	6.7	21.4
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		277.6	-59.9	4.3	-21.8	-1.5	-0.34	0.0	0.0	17.1	0.0	6.7	23.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		276.7	-59.8	4.3	-21.8	-1.5	-0.34	0.0	1.5	18.5	0.0	6.7	25.2
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		253.4	-59.1	4.2	-23.0	-1.7	-0.21	0.0	0.0	15.6	0.0	6.7	22.3
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		252.9	-59.1	4.2	-23.7	-1.7	-0.13	0.0	0.0	15.0	0.0	6.7	21.7
Motor & Pump P 1601 A	CNEL	96.3	2	253.1	-59.1	4.0	-20.3	-1.2		0.0	0.0	19.7	0.0	6.7	26.4
Motor & Pump P 1601 B	CNEL	96.3	2	251.9	-59.0	4.0	-20.4	-1.2		0.0	0.0	19.7	0.0	6.7	26.4
Motor & Pump P 1602 A	CNEL	96.3	2	251.0	-59.0	4.0	-20.4	-1.2		0.0	0.0	19.7	0.0	6.7	26.4
Motor & Pump P 1602 B	CNEL	96.5	2	249.7	-58.9	3.9	-20.4	-1.2		0.0	0.0	19.9	0.0	6.7	26.6
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	269.2	-59.6	4.3	-22.1	-1.5	-0.20	0.0	2.6	20.2	0.0	6.7	26.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	266.8	-59.5	4.3	-22.2	-1.5	-0.20	0.0	2.6	20.1	0.0	6.7	26.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	265.6	-59.5	4.3	-22.2	-1.5	-0.20	0.0	2.9	20.4	0.0	6.7	27.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	275.5	-59.8	4.3	-21.9	-1.5	-0.34	0.0	1.5	19.1	0.0	6.7	25.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	274.6	-59.8	4.3	-21.9	-1.5	-0.34	0.0	2.5	20.1	0.0	6.7	26.7
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	257.1	-59.2	4.3	-22.6	-1.5	-0.02	0.0	0.1	17.3	0.0	6.7	24.0
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.1	-59.3	4.3	-22.5	-1.5	-0.08	0.0	0.0	17.3	0.0	6.7	24.0
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	262.7	-59.4	4.3	-22.8	-1.6	-0.19	0.0	2.0	18.6	0.0	6.7	25.3
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	261.1	-59.3	4.3	-22.4	-1.5	-0.14	0.0	0.0	17.2	0.0	6.7	23.9
P602 100 HP	CNEL	94.1		336.3	-61.5	4.6	-1.9	-1.9		0.0	0.0	33.4	0.0	6.7	40.0
P603 60 HP	CNEL	95.0		336.9	-61.5	4.7	-4.5	-2.0		0.0	0.0	31.7	0.0	6.7	38.3
P605 40 HP	CNEL	95.0		336.7	-61.5	4.7	-4.0	-2.0		0.0	0.0	32.2	0.0	6.7	38.9
P607 15 HP	CNEL	90.5		335.9	-61.5	4.7	-2.9	-1.8		0.0	0.0	29.0	0.0	6.7	35.7
P608 15 HP	CNEL	90.5		335.6	-61.5	4.7	-2.9	-1.8		0.0	0.0	29.0	0.0	6.7	35.7
P611 15 HP	CNEL	90.5		336.0	-61.5	4.7	-2.5	-1.8		0.0	0.0	29.4	0.0	6.7	36.0
P614/615 20 HP	CNEL	93.0		328.6	-61.3	4.3	-2.1	-1.3		0.0	0.0	32.5	0.0	6.7	39.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	353.4	-62.0	4.7	-12.1	-0.6	-0.07	0.0	0.0	64.7	-38.6	0.0	26.1
Scanner Blower C-084A/B	CNEL	95.5		270.2	-59.6	4.1	-23.6	-1.1		0.0	0.0	15.3	0.0	6.7	21.9
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	278.7	-59.9	4.1	-15.2	-0.2		0.0	0.0	0.4	0.0	6.7	7.0
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	280.6	-60.0	4.1	-15.1	-0.2		0.0	0.0	-1.3	0.0	6.7	5.4
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	280.3	-59.9	3.5	-14.8	-0.2		0.0	0.0	-1.8	0.0	6.7	4.8
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	281.3	-60.0	4.1	-18.2	-0.2		0.0	0.0	-2.7	0.0	6.7	4.0
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	282.2	-60.0	4.1	-18.8	-0.2		0.0	0.0	-3.0	0.0	6.7	3.6
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	268.2	-59.6	3.9	-19.4	-0.2		0.0	0.0	4.8	0.0	6.7	11.5
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	266.4	-59.5	3.9	-16.7	-0.2		0.0	0.6	7.2	0.0	6.7	13.9
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	268.6	-59.6	3.9	-16.7	-0.2		0.0	0.0	17.5	0.0	6.7	24.2
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	266.3	-59.5	3.9	-17.8	-0.2		0.0	0.0	8.1	0.0	6.7	14.7
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	269.6	-59.6	3.1	-14.2	-0.2		0.0	0.0	14.5	0.0	6.7	21.2
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	271.1	-59.7	3.9	-19.8	-0.3		0.0	0.0	14.3	0.0	6.7	21.0
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	267.5	-59.5	3.9	-19.8	-0.3		0.0	0.0	5.7	0.0	6.7	12.4
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	260.1	-59.3	4.1	-20.5	-0.8		0.0	0.0	22.7	0.0	6.7	29.3
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	261.9	-59.4	4.1	-20.7	-0.9		0.0	0.0	27.9	0.0	6.7	34.6
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	263.3	-59.4	3.4	-20.1	-0.8		0.0	0.2	24.7	0.0	6.7	31.4
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	264.7	-59.4	4.1	-22.5	-1.1		0.0	0.0	25.7	0.0	6.7	32.4
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	265.6	-59.5	4.1	-23.1	-1.2		0.0	0.1	13.8	0.0	6.7	20.5
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	267.6	-59.5	4.1	-22.7	-1.2		0.0	0.0	14.4	0.0	6.7	21.1
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	275.7	-59.8	3.1	-15.2	-0.2		0.0	0.0	6.0	0.0	6.7	12.6
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	271.2	-59.7	3.9	-15.5	-0.2		0.0	0.0	0.5	0.0	6.7	7.1
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	273.4	-59.7	3.9	-16.3	-0.2		0.0	0.0	6.7	0.0	6.7	13.4
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	276.7	-59.8	3.9	-16.1	-0.2		0.0	0.0	1.2	0.0	6.7	7.9
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	274.5	-59.8	3.9	-19.5	-0.2		0.0	0.0	-1.7	0.0	6.7	5.0
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	278.0	-59.9	3.9	-19.4	-0.2		0.0	0.0	3.4	0.0	6.7	10.1
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	280.3	-59.9	4.0	-19.3	-0.2		0.0	0.0	-2.2	0.0	6.7	4.5
Tank Farm Pump 1	CNEL	99.0	3	169.8	-55.6	3.6	-16.7	-0.8		0.0	0.2	29.7	0.0	6.7	36.4
Tank Farm Pump 2	CNEL	99.0	3	175.6	-55.9	3.7	-22.6	-1.1		0.0	0.6	23.7	0.0	6.7	30.4
Tank Farm Pump 3	CNEL	99.0	3	177.9	-56.0	3.7	-23.1	-1.1		0.0	4.1	26.7	0.0	6.7	33.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	436.0	-63.8	4.0	-12.2	-2.1	-0.03	0.0	0.0	38.4	-16.8	0.0	21.6
Vaporizer Blower 1	CNEL	88.7		267.2	-59.5	4.4	-22.1	-0.9		0.0	2.4	13.0	0.0	6.7	19.7
Vaporizer Blower 2	CNEL	88.7		266.8	-59.5	4.4	-22.2	-0.9		0.0	2.4	13.0	0.0	6.7	19.6
Vaporizer Inlet Silencer	CNEL	73.7		266.0	-59.5	3.7	-17.4	-0.3		0.0	2.1	2.3	0.0	6.7	8.9
Vaporizer Motor 1	CNEL	83.6		267.5	-59.5	4.4	-22.9	-1.2		0.0	2.5	6.9	0.0	6.7	13.6
Vaporizer Motor 2	CNEL	83.6		267.1	-59.5	4.4	-22.9	-1.2		0.0	2.5	6.9	0.0	6.7	13.6
Water Treatment Pumps P-056A&B	CNEL	93.0		285.7	-60.1	4.7	-23.4	-1.5		0.0	0.1	12.7	0.0	6.7	19.4
XF-1502 Splitter Area 1	CNEL	104.5		262.9	-59.4	2.7	-17.1	-0.9	0.00	-2.9	0.1	26.9	0.0	6.7	33.6
XF-1502 Splitter Area 2	CNEL	104.5		264.7	-59.4	2.7	-17.2	-0.9		-2.9	0.0	26.8	0.0	6.7	33.5
XF-1504 Splitter Area 1	CNEL	104.5		259.0	-59.3	2.7	-17.4	-0.9	-0.01	-2.9	0.0	26.8	0.0	6.7	33.5
XF-1504 Splitter Area 2	CNEL	104.5		261.0	-59.3	2.7	-17.4	-0.9		-2.9	0.0	26.8	0.0	6.7	33.5
XF 304, XF 321	CNEL	110.5	56	311.3	-60.9	2.5	-13.7	-0.5		-1.7	0.0	36.2	0.0	6.7	42.9
XF 313, XF 314	CNEL	113.0	18	302.6	-60.6	2.5	-16.7	-0.7		-2.7	0.0	34.8	0.0	6.7	41.5
XF 335-1, XF 335-2	CNEL	113.4	54	307.4	-60.7	2.4	-15.3	-0.6	0.00	-1.8	0.0	37.4	0.0	6.7	44.1
XF 503	CNEL	113.0	21	315.4	-61.0	2.7	-16.8	-1.0	-0.41	-2.8	0.0	33.9	0.0	6.7	40.5
XF - 1601	CNEL	96.6		252.2	-59.0	2.6	-7.4	-0.6		-1.8	0.0	30.4	0.0	6.7	37.0
XF - 1602	CNEL	96.6		247.3	-58.9	2.7	-7.4	-0.5		-1.8	0.0	30.6	0.0	6.7	37.2
XF Module 1510	CNEL	108.3		271.7	-59.7	2.7	-17.5	-1.0	-0.20	-2.8	0.0	29.9	0.0	6.7	36.6
XF Module 1519	CNEL	109.0		269.0	-59.6	2.7	-17.4	-0.9	-0.20	-2.8	0.0	30.8	0.0	6.7	37.4
xxxx xxxx xxxx xxxx	CNEL		606								7.7				38.3
xxxx xxxx xxxx xxxx	CNEL		606								7.3				38.3
xxxx xxxx xxxx xxxx	CNEL		917								1.6				26.4
xxxx xxxx xxxx xxxx	CNEL		917								1.7				26.5
xxxx xxxx xxxx xxxx	CNEL		608								5.6				24.3
xxxx xxxx xxxx xxxx	CNEL		608								5.7				24.4
xxxx xxxx xxxx xxxx	CNEL		1172								3.3				43.0
xxxx xxxx xxxx xxxx	CNEL		520								3.8				39.3
xxxx xxxx xxxx xxxx	CNEL		572								3.9				42.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver CA-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 54.4 dB(A)		Ld 7-19 dB(A)			Leq,N 54.2 dB(A)		Le 19-22 dB(A)		CNEL 60.9 dB(A)		Lmax day hr dB(A)	Ld 7-1
2.8-Open Intake	CNEL	90.5	8	271.2	-59.7	2.9	-4.0	-0.1		0.0	0.0	32.7	0.0	6.7	39.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	358.5	-62.1	4.6	-16.4	-0.9	-0.03	0.0	0.2	34.4	-10.8	0.0	23.6
Air Compressor C 1	CNEL	110.0	5	312.0	-60.9	4.3	-21.6	-0.8		0.0	3.2	34.2	0.0	6.7	40.8
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		288.8	-60.2	4.3	-21.9	-1.9		0.0	0.8	21.4	0.0	6.7	28.1
Asphalt Production	CNEL	113.8	1206	283.7	-60.0	3.5	-18.2	-1.2		0.0	0.0	37.9	0.0	6.7	44.6
BFW Pumps P-073A&B	CNEL	95.8		294.3	-60.4	4.5	-20.8	-1.2		0.0	0.1	18.0	0.0	6.7	24.7
Blower F 401	CNEL	113.0		350.7	-61.9	4.2	-15.1	-0.4	-0.21	0.0	0.0	39.6	0.0	6.7	46.3
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	353.0	-61.9	4.6	-12.2	-0.8		0.0	0.5	28.7	0.0	6.7	35.4
Brine Transfer P-085	CNEL	96.2		303.1	-60.6	4.8	-22.6	-1.4		0.0	0.0	16.3	0.0	6.7	23.0
Burner H301 North	CNEL	96.1	10	359.5	-62.1	4.1	-12.1	-1.2		0.0	0.0	27.9	0.0	6.7	34.6
Burner H301 South	CNEL	95.9	10	360.2	-62.1	4.2	-19.6	-1.5		0.0	0.2	20.1	0.0	6.7	26.8
Burner H302 North	CNEL	97.0	13	363.6	-62.2	4.2	-15.0	-1.2	-0.43	0.0	0.0	25.4	0.0	6.7	32.1
Burner H302 South	CNEL	97.0	13	364.3	-62.2	4.3	-22.4	-1.8	-0.24	0.0	0.3	17.9	0.0	6.7	24.6
Burner H303 North	CNEL	97.0	13	375.3	-62.5	4.4	-16.5	-1.2	-0.64	0.0	0.3	23.9	0.0	6.7	30.5
Burner H303 South	CNEL	97.0	13	376.6	-62.5	4.4	-23.8	-2.0	0.00	0.0	0.9	17.0	0.0	6.7	23.7
Burner H304 North	CNEL	97.0	13	372.0	-62.4	4.4	-18.7	-1.4	-0.20	0.0	0.5	22.1	0.0	6.7	28.8
Burner H304 South	CNEL	97.0	13	373.2	-62.4	4.4	-20.6	-1.6	-0.67	0.0	0.0	19.2	0.0	6.7	25.9
Burner H305 North	CNEL	96.3	11	368.3	-62.3	4.3	-17.8	-1.3		0.0	0.7	22.9	0.0	6.7	29.6
Burner H305 South	CNEL	96.3	11	369.4	-62.3	4.3	-21.8	-1.7	-0.14	0.0	0.0	17.7	0.0	6.7	24.4
Burner H306 North	CNEL	95.0	8	364.3	-62.2	4.3	-16.2	-1.2	-0.43	0.0	0.2	22.5	0.0	6.7	29.2
Burner H306 South	CNEL	95.1	8	365.1	-62.2	4.3	-22.6	-1.8	-0.12	0.0	0.2	15.8	0.0	6.7	22.5
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	355.0	-62.0	4.0	-18.5	-0.7	-0.67	1.1	0.0	28.0	0.0	6.7	34.6
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	349.1	-61.9	4.0	-16.5	-0.8	-0.56	0.0	0.0	24.8	0.0	6.7	31.4
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	358.5	-62.1	4.0	-13.3	-0.7	-0.32	3.7	0.0	37.9	0.0	6.7	44.6
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	364.8	-62.2	4.1	-21.8	-1.0	-0.59	-6.2	0.0	22.9	0.0	6.7	29.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	352.1	-61.9	4.0	-21.7	-1.0	-0.81	-6.2	0.0	16.2	0.0	6.7	22.8
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	371.5	-62.4	4.1	-20.9	-1.1	-0.12	-7.8	0.0	12.2	0.0	6.7	18.9
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	289.6	-60.2	3.8	-16.2	-0.7		1.4	0.0	26.0	0.0	6.7	32.7
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	300.2	-60.5	3.9	-21.4	-1.0		-7.8	0.0	10.9	0.0	6.7	17.6
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	269.7	-59.6	3.3	-18.0	-0.7		1.7	0.0	27.3	0.0	6.7	34.0
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	284.5	-60.1	3.5	-21.8	-1.0		-7.8	9.1	22.6	0.0	6.7	29.2
Cooling Tower M 512	CNEL	95.7		298.4	-60.5	4.3	-22.8	-1.2		0.0	0.0	15.5	0.0	6.7	22.1
Cooling Tower M 513	CNEL	95.7		299.7	-60.5	4.3	-22.7	-1.2		0.0	0.0	15.5	0.0	6.7	22.2
Cooling Tower M 514	CNEL	95.7		297.2	-60.5	4.3	-22.5	-1.2		0.0	0.0	15.9	0.0	6.7	22.5
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	311.2	-60.9	4.6	-6.1	-3.1		0.0	0.1	48.3	0.0	6.7	55.0
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	311.2	-60.9	4.0	-5.9	-3.0		0.0	0.1	48.1	0.0	6.7	54.8
CT Y-600-CT Y-600 North	CNEL	96.4	51	329.3	-61.3	3.8	-14.8	-0.7		0.0	0.0	26.4	0.0	6.7	33.1
CT Y-600-CT Y-600 South	CNEL	96.4	52	344.1	-61.7	3.9	-20.4	-1.1		0.0	0.0	20.1	0.0	6.7	26.8
Deaerator Skid P-058A&B	CNEL	96.2		283.7	-60.0	2.9	-16.6	-0.9		0.0	0.0	21.5	0.0	6.7	28.2
Exhaust Stack	CNEL	100.6		297.5	-60.5	2.7	-5.3	-0.5		0.0	0.0	37.2	0.0	6.7	43.9
F.G. After Cooler XF-083ABC	CNEL	100.2		279.0	-59.9	3.8	-15.9	-0.4		0.0	0.0	27.8	0.0	6.7	34.5
Fan Y-600	CNEL	107.5		336.2	-61.5	2.9	-19.5	-0.7		0.0	0.0	28.6	0.0	6.7	35.3
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	273.3	-59.7	3.0	-8.9	-0.1		0.0	0.0	16.7	0.0	6.7	23.4
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	269.9	-59.6	3.8	-9.0	-0.1		0.0	0.0	15.9	0.0	6.7	22.5
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	272.2	-59.7	3.9	-17.5	-0.9		0.0	0.0	-0.1	0.0	6.7	6.5
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	270.4	-59.6	3.8	-10.7	-0.1		0.0	0.0	17.1	0.0	6.7	23.8
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	276.2	-59.8	3.8	-15.4	-0.1		0.0	0.0	3.4	0.0	6.7	10.1
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	276.8	-59.8	3.8	-16.0	-0.1		0.0	0.0	8.7	0.0	6.7	15.3
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	278.3	-59.9	3.9	-22.7	-1.5		0.0	1.0	-5.2	0.0	6.7	1.5
Fin Fan XF 616 - Above	CNEL	96.0	75	332.8	-61.4	2.8	-8.2	-0.5		-11.1	0.0	17.5	0.0	6.7	24.2
Fin Fan XF 616 - Below	CNEL	108.0	75	332.7	-61.4	2.8	-9.1	-0.7		-8.2	0.0	31.4	0.0	6.7	38.1
Fin Fan XF 617 - Above	CNEL	93.0	21	332.0	-61.4	2.8	-6.1	-0.6		-11.3	0.0	16.4	0.0	6.7	23.1
Fin Fan XF 617 - Below	CNEL	104.0	21	331.9	-61.4	2.8	-8.1	-0.7		-8.1	0.0	28.6	0.0	6.7	35.2
Heater # 5-Heater	CNEL	91.1	13	349.2	-61.9	4.6	-17.4	-0.8		0.0	0.7	19.4	0.0	6.7	26.1
Heater # 5-Heater	CNEL	91.1	13	349.4	-61.9	4.6	-17.8	-0.8		0.0	2.2	20.4	0.0	6.7	27.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	349.8	-61.9	4.6	-18.2	-0.8		0.0	0.0	17.8	0.0	6.7	24.5
Heater H 601	CNEL	89.1	13	353.7	-62.0	4.4	-10.0	-0.6		0.0	0.0	21.0	0.0	6.7	27.6
Hydro Heater H-402	CNEL	98.1		321.5	-61.1	4.3	-21.5	-0.9		0.0	0.0	18.8	0.0	6.7	25.5
ID Fan	CNEL	110.3		382.8	-62.7	3.9	-21.9	-0.9		0.0	0.6	29.4	0.0	6.7	36.0
ID Fan 200 HP Motor	CNEL	104.4		383.4	-62.7	4.4	-23.5	-2.5		0.0	0.6	20.7	0.0	6.7	27.4
Incinirator Compressor & Motor	CNEL	92.5		385.6	-62.7	4.9	-10.9	-0.7		0.0	0.8	23.9	0.0	6.7	30.5
Incinirator Fin Fan	CNEL	94.8		385.8	-62.7	4.9	-10.3	-0.5		0.0	0.6	26.7	0.0	6.7	33.4
Lub Oil Cooler XF-061	CNEL	100.5		277.7	-59.9	4.1	-18.1	-0.4		0.0	2.6	28.9	0.0	6.7	35.5
Misc pumps motors	CNEL	100.2	332	187.7	-56.5	3.2	-19.4	-0.9		0.0	1.1	27.7	0.0	6.7	34.4
Motor & Pump P 56A/B	CNEL	93.7		321.0	-61.1	4.4	-21.5	-1.6	-0.48	0.0	0.0	13.4	0.0	6.7	20.1
Motor & Pump P 120/121	CNEL	96.2	2	315.5	-61.0	4.4	-19.8	-1.0	-0.24	0.0	0.2	18.8	0.0	6.7	25.4
Motor & Pump P 211/212	CNEL	93.7		349.9	-61.9	4.6	-17.3	-1.4	-0.88	0.0	0.0	16.8	0.0	6.7	23.5
Motor & Pump P 215/214	CNEL	94.6		347.8	-61.8	4.6	-18.3	-1.5	-0.98	0.0	0.0	16.6	0.0	6.7	23.3
Motor & Pump P 216	CNEL	98.3		355.6	-62.0	4.5	-16.3	-1.4	-1.14	0.0	0.0	22.0	0.0	6.7	28.7
Motor & Pump P 217/218	CNEL	93.7		349.2	-61.9	4.8	-18.0	-1.4	-0.96	0.0	0.0	16.2	0.0	6.7	22.9
Motor & Pump P 300	CNEL	97.1	2	326.1	-61.3	4.4	-19.5	-1.0		0.0	0.1	19.9	0.0	6.7	26.5
Motor & Pump P 301	CNEL	102.1	2	326.6	-61.3	4.4	-19.5	-1.0	-0.04	0.0	0.1	24.8	0.0	6.7	31.5
Motor & Pump P 302	CNEL	97.1	2	325.5	-61.2	4.4	-21.1	-1.1		0.0	0.1	18.2	0.0	6.7	24.8
Motor & Pump P 303	CNEL	97.1	2	325.2	-61.2	4.4	-18.4	-1.0		0.0	0.1	21.0	0.0	6.7	27.6
Motor & Pump P 305	CNEL	97.5	2	324.8	-61.2	4.4	-19.7	-1.0		0.0	1.4	21.2	0.0	6.7	27.9
Motor & Pump P 306	CNEL	112.6	4	322.1	-61.2	4.1	-21.2	-1.2		0.0	0.2	33.4	0.0	6.7	40.1
Motor & Pump P 307	CNEL	102.1	2	328.2	-61.3	4.4	-18.4	-1.0	-0.24	0.0	1.5	27.1	0.0	6.7	33.7
Motor & Pump P 309	CNEL	97.5	2	324.3	-61.2	4.3	-22.5	-1.2		0.0	0.1	17.1	0.0	6.7	23.8
Motor & Pump P 312	CNEL	101.5	2	335.9	-61.5	4.6	-20.4	-1.1	-0.53	0.0	0.0	22.5	0.0	6.7	29.2
Motor & Pump P 313	CNEL	101.5	2	336.6	-61.5	4.6	-20.8	-1.1	-0.57	0.0	0.0	22.2	0.0	6.7	28.8
Motor & Pump P 315	CNEL	102.9	2	339.4	-61.6	4.6	-21.3	-1.1	-0.51	0.0	1.9	24.8	0.0	6.7	31.5
Motor & Pump P 316	CNEL	102.9	2	340.2	-61.6	4.6	-20.1	-1.1	-0.47	0.0	0.7	24.9	0.0	6.7	31.5
Motor & Pump P 317	CNEL	102.9	2	340.9	-61.6	4.5	-19.6	-1.1	-0.48	0.0	0.0	24.7	0.0	6.7	31.4
Motor & Pump P 318	CNEL	100.2	1	338.1	-61.6	4.7	-22.4	-1.2	-0.25	0.0	1.4	20.9	0.0	6.7	27.5
Motor & Pump P 319	CNEL	100.2	1	337.5	-61.6	4.7	-21.0	-1.1	-0.57	0.0	0.0	20.6	0.0	6.7	27.3
Motor & Pump P 327	CNEL	111.2	3	320.7	-61.1	4.3	-23.2	-1.9		0.0	1.1	30.5	0.0	6.7	37.2
Motor & Pump P 328	CNEL	109.9	5	323.7	-61.2	4.2	-21.6	-1.1		0.0	0.1	30.3	0.0	6.7	37.0
Motor & Pump P 329	CNEL	110.2	5	322.8	-61.2	4.2	-22.2	-1.1		0.0	0.1	29.9	0.0	6.7	36.6
Motor & Pump P 451	CNEL	93.7		324.0	-61.2	4.4	-20.1	-1.4		0.0	0.3	15.7	0.0	6.7	22.4
Motor & Pump P 453	CNEL	93.7		327.9	-61.3	4.5	-20.0	-1.4		0.0	0.4	15.7	0.0	6.7	22.4
Motor & Pump P 454	CNEL	93.7		325.1	-61.2	4.4	-19.8	-1.4		0.0	0.3	16.0	0.0	6.7	22.6
Motor & Pump P 457	CNEL	93.7		328.7	-61.3	4.5	-20.0	-1.4		0.0	0.0	15.4	0.0	6.7	22.1
Motor & Pump P 458	CNEL	93.7		323.0	-61.2	4.4	-20.1	-1.4		0.0	0.0	15.4	0.0	6.7	22.0
Motor & Pump P 459	CNEL	93.7		324.6	-61.2	4.4	-19.9	-1.4		0.0	0.0	15.6	0.0	6.7	22.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		297.3	-60.5	4.4	-21.4	-1.4	-0.33	0.0	0.0	17.0	0.0	6.7	23.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		296.5	-60.4	4.4	-21.5	-1.4	-0.33	0.0	1.6	18.5	0.0	6.7	25.2
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		274.1	-59.7	4.2	-22.9	-1.7	-0.21	0.0	0.3	15.3	0.0	6.7	21.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		273.6	-59.7	4.2	-21.7	-1.4	-0.13	0.0	0.2	16.8	0.0	6.7	23.5
Motor & Pump P 1601 A	CNEL	96.3	2	272.3	-59.7	4.0	-18.1	-1.2		0.0	0.0	21.4	0.0	6.7	28.0
Motor & Pump P 1601 B	CNEL	96.3	2	271.0	-59.7	4.0	-18.1	-1.2		0.0	0.0	21.4	0.0	6.7	28.1
Motor & Pump P 1602 A	CNEL	96.3	2	270.1	-59.6	4.0	-18.0	-1.2		0.0	0.0	21.5	0.0	6.7	28.2
Motor & Pump P 1602 B	CNEL	96.5	2	268.8	-59.6	4.0	-18.0	-1.2		0.0	0.0	21.8	0.0	6.7	28.4
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	288.8	-60.2	4.4	-19.9	-1.3	-0.19	0.0	1.6	21.0	0.0	6.7	27.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	286.5	-60.1	4.3	-21.8	-1.5	-0.20	0.0	2.9	20.2	0.0	6.7	26.9
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	285.4	-60.1	4.3	-21.9	-1.5	-0.19	0.0	3.0	20.2	0.0	6.7	26.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	295.3	-60.4	4.4	-21.6	-1.4	-0.33	0.0	2.1	19.4	0.0	6.7	26.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	294.5	-60.4	4.4	-21.7	-1.5	-0.33	0.0	3.4	20.7	0.0	6.7	27.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	277.0	-59.8	4.3	-22.3	-1.6	-0.02	0.0	0.0	16.9	0.0	6.7	23.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	279.0	-59.9	4.3	-22.2	-1.5	-0.08	0.0	0.0	16.9	0.0	6.7	23.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	282.7	-60.0	4.3	-22.3	-1.6	-0.18	0.0	0.0	16.5	0.0	6.7	23.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	281.1	-60.0	4.3	-22.1	-1.5	-0.14	0.0	0.0	16.9	0.0	6.7	23.5
P602 100 HP	CNEL	94.1		339.2	-61.6	4.6	-14.7	-0.9		0.0	0.0	21.4	0.0	6.7	28.1
P603 60 HP	CNEL	95.0		340.1	-61.6	4.7	-16.7	-1.4		0.0	0.0	20.0	0.0	6.7	26.6
P605 40 HP	CNEL	95.0		339.8	-61.6	4.7	-16.2	-1.4		0.0	0.0	20.4	0.0	6.7	27.1
P607 15 HP	CNEL	90.5		338.4	-61.6	4.7	-14.5	-1.0		0.0	0.0	18.1	0.0	6.7	24.7
P608 15 HP	CNEL	90.5		337.9	-61.6	4.7	-14.0	-1.0		0.0	0.0	18.6	0.0	6.7	25.2
P611 15 HP	CNEL	90.5		338.7	-61.6	4.7	-14.9	-1.0		0.0	0.0	17.7	0.0	6.7	24.3
P614/615 20 HP	CNEL	93.0		331.6	-61.4	4.3	-15.6	-1.0		0.0	0.0	19.3	0.0	6.7	25.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	368.0	-62.3	4.7	-13.6	-0.5	-0.11	0.0	0.0	63.0	-38.6	0.0	24.4
Scanner Blower C-084A/B	CNEL	95.5		283.9	-60.1	4.1	-23.2	-1.1		0.0	0.1	15.4	0.0	6.7	22.1
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	293.4	-60.3	4.1	-14.5	-0.2		0.0	0.0	0.6	0.0	6.7	7.3
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	295.4	-60.4	4.1	-14.4	-0.2		0.0	0.0	-1.0	0.0	6.7	5.6
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	294.9	-60.4	3.6	-14.3	-0.2		0.0	0.0	-1.7	0.0	6.7	4.9
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	295.9	-60.4	4.1	-18.0	-0.2		0.0	0.0	-2.9	0.0	6.7	3.8
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	296.9	-60.4	4.2	-18.5	-0.2		0.0	0.0	-3.2	0.0	6.7	3.5
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	281.8	-60.0	3.9	-18.3	-0.3		0.0	0.0	5.5	0.0	6.7	12.2
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	280.1	-59.9	3.9	-15.2	-0.2		0.0	0.7	8.4	0.0	6.7	15.1
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	282.5	-60.0	3.9	-15.5	-0.2		0.0	0.0	18.3	0.0	6.7	25.0
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	279.9	-59.9	3.9	-16.1	-0.2		0.0	0.0	9.4	0.0	6.7	16.1
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	283.5	-60.0	3.2	-12.4	-0.2		0.0	0.0	15.9	0.0	6.7	22.6
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	284.9	-60.1	3.9	-19.1	-0.3		0.0	0.0	14.6	0.0	6.7	21.3
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	281.1	-60.0	3.9	-18.9	-0.3		0.0	0.0	6.3	0.0	6.7	13.0
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	273.1	-59.7	4.1	-18.9	-0.7		0.0	0.1	24.0	0.0	6.7	30.7
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	275.2	-59.8	4.1	-18.8	-0.7		0.0	0.1	29.6	0.0	6.7	36.2
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	276.5	-59.8	3.5	-17.5	-0.7		0.0	0.3	27.1	0.0	6.7	33.7
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	277.9	-59.9	4.1	-21.7	-1.0		0.0	0.2	26.3	0.0	6.7	33.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	279.2	-59.9	4.1	-22.3	-1.1		0.0	0.0	14.3	0.0	6.7	21.0
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	281.1	-60.0	4.1	-21.9	-1.1		0.0	0.0	14.9	0.0	6.7	21.5
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	290.0	-60.2	3.2	-12.5	-0.2		0.0	0.0	8.3	0.0	6.7	15.0
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	285.3	-60.1	4.0	-14.4	-0.2		0.0	0.0	1.1	0.0	6.7	7.8
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	287.8	-60.2	4.0	-15.3	-0.2		0.0	0.0	7.2	0.0	6.7	13.8
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	291.4	-60.3	4.0	-15.3	-0.2		0.0	0.0	1.6	0.0	6.7	8.3
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	288.6	-60.2	4.0	-18.8	-0.2		0.0	0.0	-1.5	0.0	6.7	5.2
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	292.2	-60.3	4.0	-19.0	-0.2		0.0	0.0	3.5	0.0	6.7	10.2
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	294.8	-60.4	4.0	-19.0	-0.2		0.0	0.0	-2.2	0.0	6.7	4.4
Tank Farm Pump 1	CNEL	99.0	3	166.5	-55.4	3.5	-4.1	-1.4		0.0	3.2	44.7	0.0	6.7	51.4
Tank Farm Pump 2	CNEL	99.0	3	169.6	-55.6	3.5	-19.5	-0.9		0.0	1.4	28.0	0.0	6.7	34.7
Tank Farm Pump 3	CNEL	99.0	3	171.2	-55.7	3.6	-22.5	-1.0		0.0	4.9	28.2	0.0	6.7	34.9
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	455.5	-64.2	4.0	-10.0	-3.0	-0.03	0.0	0.1	39.3	-16.8	0.0	22.5
Vaporizer Blower 1	CNEL	88.7		281.2	-60.0	4.4	-20.9	-0.9		0.0	2.5	13.8	0.0	6.7	20.5
Vaporizer Blower 2	CNEL	88.7		280.8	-60.0	4.4	-21.0	-0.9		0.0	2.5	13.8	0.0	6.7	20.4
Vaporizer Inlet Silencer	CNEL	73.7		279.9	-59.9	3.7	-16.1	-0.3		0.0	2.2	3.2	0.0	6.7	9.9
Vaporizer Motor 1	CNEL	83.6		281.5	-60.0	4.5	-21.8	-1.1		0.0	2.5	7.7	0.0	6.7	14.3
Vaporizer Motor 2	CNEL	83.6		281.1	-60.0	4.5	-21.9	-1.1		0.0	2.5	7.6	0.0	6.7	14.3
Water Treatment Pumps P-056A&B	CNEL	93.0		299.8	-60.5	4.7	-22.7	-1.5		0.0	0.0	13.0	0.0	6.7	19.7
XF-1502 Splitter Area 1	CNEL	104.5		282.7	-60.0	2.7	-16.0	-1.0	0.00	-3.0	0.0	27.2	0.0	6.7	33.9
XF-1502 Splitter Area 2	CNEL	104.5		284.4	-60.1	2.7	-15.7	-1.0		-3.0	0.0	27.4	0.0	6.7	34.1
XF-1504 Splitter Area 1	CNEL	104.5		278.8	-59.9	2.7	-16.1	-1.0	-0.01	-3.0	0.0	27.3	0.0	6.7	33.9
XF-1504 Splitter Area 2	CNEL	104.5		280.6	-60.0	2.7	-14.2	-1.0		-3.0	0.0	29.1	0.0	6.7	35.7
XF 304, XF 321	CNEL	110.5	56	332.7	-61.4	2.5	-13.6	-0.5		-1.7	0.0	35.8	0.0	6.7	42.5
XF 313, XF 314	CNEL	113.0	18	324.4	-61.2	2.5	-15.9	-0.8		-2.7	0.0	34.9	0.0	6.7	41.5
XF 335-1, XF 335-2	CNEL	113.4	54	329.0	-61.3	2.5	-14.4	-0.7	0.00	-1.8	0.1	37.7	0.0	6.7	44.3
XF 503	CNEL	113.0	21	335.4	-61.5	2.9	-15.1	-1.0	-0.47	-2.9	0.0	35.0	0.0	6.7	41.6
XF - 1601	CNEL	96.6		271.3	-59.7	2.6	-6.1	-0.7		-2.0	0.0	30.8	0.0	6.7	37.5
XF - 1602	CNEL	96.6		266.2	-59.5	2.6	-6.0	-0.6		-2.0	0.0	31.0	0.0	6.7	37.7
XF Module 1510	CNEL	108.3		291.3	-60.3	2.7	-16.0	-1.0	-0.22	-2.9	0.0	30.6	0.0	6.7	37.2
XF Module 1519	CNEL	109.0		288.8	-60.2	2.7	-16.4	-1.0	-0.21	-2.9	0.0	31.0	0.0	6.7	37.7
xxxx xxxx xxxx xxxx	CNEL		606								15.1				38.2
xxxx xxxx xxxx xxxx	CNEL		606								15.1				38.2
xxxx xxxx xxxx xxxx	CNEL		917								4.6				26.0
xxxx xxxx xxxx xxxx	CNEL		917								4.4				26.2
xxxx xxxx xxxx xxxx	CNEL		608								9.0				33.7
xxxx xxxx xxxx xxxx	CNEL		608								9.0				33.6
xxxx xxxx xxxx xxxx	CNEL		1172								5.4				45.7
xxxx xxxx xxxx xxxx	CNEL		520								15.0				39.0
xxxx xxxx xxxx xxxx	CNEL		572								6.2				43.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver HWES Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.7 dB(A) Ld 7-19 dB(A) Leq,N 58.9 dB(A) Le 19-22 dB(A) CNEL 65.7 dB(A) Lmax day hr dB(A) Ld 7-															
2.8-Open Intake	CNEL	90.5	8	402.1	-63.1	3.6	-4.5	-0.4	0.00	0.0	0.0	29.1	0.0	6.7	35.8
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	383.5	-62.7	5.1	-8.0	-2.8	-0.13	0.0	0.2	40.6	-10.8	0.0	29.9
Air Compressor C 1	CNEL	110.0	5	222.5	-57.9	4.6	-20.8	-0.6		0.0	9.8	45.1	0.0	6.7	51.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		410.9	-63.3	5.1	-18.8	-2.0	-0.45	0.0	0.0	20.8	0.0	6.7	27.5
Asphalt Production	CNEL	113.8	1206	473.9	-64.5	4.6	-6.2	-3.8	0.00	0.0	0.1	44.0	0.0	6.7	50.6
BFW Pumps P-073A&B	CNEL	95.8		404.8	-63.1	5.1	-19.7	-1.4	-0.56	0.0	0.0	16.1	0.0	6.7	22.7
Blower F 401	CNEL	113.0		330.3	-61.4	4.4	-9.2	-0.4	-1.30	0.0	0.0	45.2	0.0	6.7	51.8
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	595.2	-66.5	5.0	-17.3	-1.1		0.0	0.3	19.0	0.0	6.7	25.6
Brine Transfer P-085	CNEL	96.2		398.3	-63.0	5.3	-19.2	-1.6		0.0	0.0	17.7	0.0	6.7	24.4
Burner H301 North	CNEL	96.1	10	189.5	-56.5	4.0	-17.3	-0.7		0.0	2.3	30.9	0.0	6.7	37.6
Burner H301 South	CNEL	95.9	10	193.0	-56.7	4.1	-22.6	-1.2		0.0	6.8	29.4	0.0	6.7	36.0
Burner H302 North	CNEL	97.0	13	204.1	-57.2	4.2	-14.3	-1.0		0.0	0.4	32.1	0.0	6.7	38.7
Burner H302 South	CNEL	97.0	13	207.0	-57.3	4.2	-22.2	-1.2		0.0	4.8	28.2	0.0	6.7	34.9
Burner H303 North	CNEL	97.0	13	242.4	-58.7	4.4	-14.9	-1.1		0.0	1.0	30.7	0.0	6.7	37.3
Burner H303 South	CNEL	97.0	13	245.9	-58.8	4.4	-20.8	-1.2		0.0	6.8	30.3	0.0	6.7	37.0
Burner H304 North	CNEL	97.0	13	232.5	-58.3	4.3	-9.1	-1.5		0.0	1.3	36.7	0.0	6.7	43.4
Burner H304 South	CNEL	97.0	13	236.1	-58.5	4.4	-22.2	-1.3		0.0	3.4	25.9	0.0	6.7	32.5
Burner H305 North	CNEL	96.3	11	223.6	-58.0	4.3	-16.5	-0.9		0.0	2.1	30.3	0.0	6.7	37.0
Burner H305 South	CNEL	96.3	11	227.2	-58.1	4.3	-21.6	-1.2		0.0	11.3	34.0	0.0	6.7	40.7
Burner H306 North	CNEL	95.0	8	214.3	-57.6	4.2	-19.5	-0.9		0.0	3.7	28.0	0.0	6.7	34.7
Burner H306 South	CNEL	95.1	8	217.3	-57.7	4.3	-22.0	-1.2		0.0	6.5	27.9	0.0	6.7	34.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	281.9	-60.0	4.2	-20.5	-0.7	-0.55	-4.9	0.0	22.2	0.0	6.7	28.9
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	278.1	-59.9	4.2	-20.2	-1.1	-1.01	0.0	0.0	22.5	0.0	6.7	29.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	272.3	-59.7	4.1	-10.1	-0.7	-0.34	0.2	0.1	40.1	0.0	6.7	46.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	281.8	-60.0	4.2	-20.4	-0.7	-0.17	-7.8	0.0	25.8	0.0	6.7	32.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	280.1	-59.9	4.1	-22.5	-0.9	-0.51	-7.8	0.0	16.2	0.0	6.7	22.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	274.5	-59.8	4.1	-16.2	-0.7		4.6	0.0	32.6	0.0	6.7	39.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	307.3	-60.7	4.4	-15.5	-0.8	-0.32	-6.8	0.0	18.1	0.0	6.7	24.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	301.4	-60.6	4.3	-10.9	-0.9	-0.44	3.5	0.0	32.8	0.0	6.7	39.5
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	321.1	-61.1	4.0	-13.5	-0.9	-0.24	-7.0	0.0	21.8	0.0	6.7	28.5
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	311.6	-60.9	4.1	-7.8	-1.2	-0.40	3.2	0.0	37.7	0.0	6.7	44.4
Cooling Tower M 512	CNEL	95.7		310.0	-60.8	4.9	-22.8	-1.3	-0.31	0.0	0.0	15.4	0.0	6.7	22.0
Cooling Tower M 513	CNEL	95.7		309.4	-60.8	4.8	-22.7	-1.3	-0.37	0.0	7.3	22.7	0.0	6.7	29.3
Cooling Tower M 514	CNEL	95.7		310.8	-60.8	4.9	-22.5	-1.3	-0.26	0.0	0.0	15.7	0.0	6.7	22.3
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	569.4	-66.1	5.3	-12.0	-2.5		0.0	0.4	38.8	0.0	6.7	45.5
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	569.4	-66.1	4.9	-10.3	-2.6		0.0	0.3	40.0	0.0	6.7	46.6
CT Y-600-CT Y-600 North	CNEL	96.4	51	539.3	-65.6	4.7	-10.1	-1.8		0.0	0.0	26.5	0.0	6.7	33.2
CT Y-600-CT Y-600 South	CNEL	96.4	52	551.4	-65.8	4.7	-20.0	-1.4		0.0	0.0	16.8	0.0	6.7	23.5
Deaerator Skid P-058A&B	CNEL	96.2		396.1	-62.9	3.9	-5.0	-2.4	-0.45	0.0	0.0	29.2	0.0	6.7	35.9
Exhaust Stack	CNEL	100.6		385.2	-62.7	2.3	-0.1	-0.6		0.0	0.0	39.5	0.0	6.7	46.2
F.G. After Cooler XF-083ABC	CNEL	100.2		418.7	-63.4	4.5	-6.3	-1.0	-0.06	0.0	0.0	34.0	0.0	6.7	40.6
Fan Y-600	CNEL	107.5		545.1	-65.7	3.8	-8.2	-1.3		0.0	0.0	36.1	0.0	6.7	42.7
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	424.3	-63.5	4.1	-4.7	-0.3		0.0	0.0	18.0	0.0	6.7	24.7
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	428.1	-63.6	4.7	-13.0	-0.1		0.0	0.0	8.7	0.0	6.7	15.3
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	430.3	-63.7	5.0	-21.7	-1.7		0.0	0.0	-8.0	0.0	6.7	-1.3
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	421.5	-63.5	4.7	-5.8	-0.2		0.0	0.0	18.9	0.0	6.7	25.6
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	427.1	-63.6	4.7	-13.6	-0.2	0.00	0.0	0.0	2.3	0.0	6.7	8.9
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	420.5	-63.5	4.7	-5.2	-0.2		0.0	0.0	16.5	0.0	6.7	23.2
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	422.1	-63.5	4.9	-8.4	-3.4		0.0	0.0	3.8	0.0	6.7	10.5
Fin Fan XF 616 - Above	CNEL	96.0	75	563.8	-66.0	2.9	-2.4	-1.5		-8.7	0.0	20.3	0.0	6.7	26.9
Fin Fan XF 616 - Below	CNEL	108.0	75	563.8	-66.0	3.1	-2.8	-2.0		-9.8	0.0	30.5	0.0	6.7	37.1
Fin Fan XF 617 - Above	CNEL	93.0	21	568.9	-66.1	2.8	-1.0	-1.3		-8.7	0.0	18.7	0.0	6.7	25.4
Fin Fan XF 617 - Below	CNEL	104.0	21	568.9	-66.1	3.0	-1.1	-1.7		-9.8	0.0	28.3	0.0	6.7	35.0
Heater # 5-Heater	CNEL	91.1	13	594.3	-66.5	5.0	-20.8	-1.3		0.0	3.9	14.5	0.0	6.7	21.1
Heater # 5-Heater	CNEL	91.1	13	591.1	-66.4	5.0	-20.9	-1.3		0.0	0.0	10.5	0.0	6.7	17.1

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	587.9	-66.4	5.0	-21.2	-1.4		0.0	0.3	10.5	0.0	6.7	17.2
Heater H 601	CNEL	89.1	13	585.7	-66.3	5.0	-6.5	-1.7		0.0	1.4	21.0	0.0	6.7	27.7
Hydro Heater H-402	CNEL	98.1		298.4	-60.5	4.6	-10.2	-0.5	-0.63	0.0	0.0	30.9	0.0	6.7	37.5
ID Fan	CNEL	110.3		218.0	-57.8	3.7	-10.0	-0.4		0.0	6.6	52.3	0.0	6.7	59.0
ID Fan 200 HP Motor	CNEL	104.4		219.8	-57.8	4.5	-13.6	-1.1		0.0	2.4	38.7	0.0	6.7	45.3
Incinirator Compressor & Motor	CNEL	92.5		664.7	-67.4	5.2	-12.6	-1.1		0.0	0.8	17.3	0.0	6.7	24.0
Incinirator Fin Fan	CNEL	94.8		664.2	-67.4	5.2	-11.9	-0.8		0.0	0.5	20.3	0.0	6.7	27.0
Lub Oil Cooler XF-061	CNEL	100.5		396.4	-63.0	4.8	-10.3	-0.6	-0.24	0.0	1.9	33.0	0.0	6.7	39.7
Misc pumps motors	CNEL	100.2	332	369.9	-62.4	4.7	-19.0	-1.5		0.0	1.3	23.4	0.0	6.7	30.1
Motor & Pump P 56A/B	CNEL	93.7		280.6	-60.0	4.8	-18.2	-1.2	-0.22	0.0	0.0	18.9	0.0	6.7	25.6
Motor & Pump P 120/121	CNEL	96.2	2	234.3	-58.4	4.7	-12.2	-0.8		0.0	0.6	30.1	0.0	6.7	36.8
Motor & Pump P 211/212	CNEL	93.7		297.5	-60.5	5.0	-8.8	-1.7	-1.66	0.0	0.0	26.0	0.0	6.7	32.6
Motor & Pump P 215/214	CNEL	94.6		292.6	-60.3	5.0	-19.1	-1.1	-0.92	0.0	0.0	18.2	0.0	6.7	24.9
Motor & Pump P 216	CNEL	98.3		295.2	-60.4	4.9	-22.4	-1.7	-0.13	0.0	0.0	18.6	0.0	6.7	25.2
Motor & Pump P 217/218	CNEL	93.7		295.6	-60.4	5.2	-17.8	-1.2	-0.96	0.0	0.0	18.5	0.0	6.7	25.2
Motor & Pump P 300	CNEL	97.1	2	227.6	-58.1	4.7	-10.9	-0.8	-0.45	0.0	0.1	31.5	0.0	6.7	38.2
Motor & Pump P 301	CNEL	102.1	2	229.1	-58.2	4.7	-10.8	-0.8	-0.49	0.0	0.1	36.6	0.0	6.7	43.3
Motor & Pump P 302	CNEL	97.1	2	225.9	-58.1	4.7	-11.1	-0.8	-0.41	0.0	0.1	31.5	0.0	6.7	38.1
Motor & Pump P 303	CNEL	97.1	2	224.5	-58.0	4.6	-11.0	-0.8	-0.38	0.0	0.1	31.6	0.0	6.7	38.3
Motor & Pump P 305	CNEL	97.5	2	223.1	-58.0	4.6	-11.2	-0.8	-0.35	0.0	0.1	31.9	0.0	6.7	38.5
Motor & Pump P 306	CNEL	112.6	4	214.7	-57.6	4.3	-16.9	-0.8	-0.17	0.0	1.8	43.2	0.0	6.7	49.9
Motor & Pump P 307	CNEL	102.1	2	233.7	-58.4	4.7	-10.3	-0.8	-0.60	0.0	0.1	36.8	0.0	6.7	43.5
Motor & Pump P 309	CNEL	97.5	2	221.7	-57.9	4.6	-11.4	-0.8	-0.31	0.0	0.1	31.7	0.0	6.7	38.4
Motor & Pump P 312	CNEL	101.5	2	254.4	-59.1	4.9	-18.2	-0.8	-0.65	0.0	0.0	27.6	0.0	6.7	34.3
Motor & Pump P 313	CNEL	101.5	2	256.1	-59.2	4.9	-18.1	-0.8	-0.67	0.0	0.0	27.7	0.0	6.7	34.4
Motor & Pump P 315	CNEL	102.9	2	262.2	-59.4	4.8	-17.6	-0.8	-0.73	0.0	0.0	29.2	0.0	6.7	35.9
Motor & Pump P 316	CNEL	102.9	2	264.0	-59.4	4.8	-17.9	-0.8	-0.72	0.0	4.2	33.0	0.0	6.7	39.7
Motor & Pump P 317	CNEL	102.9	2	266.0	-59.5	4.8	-17.9	-0.8	-0.70	0.0	5.7	34.5	0.0	6.7	41.2
Motor & Pump P 318	CNEL	100.2	1	260.4	-59.3	5.0	-17.4	-0.8	-0.73	0.0	0.0	27.0	0.0	6.7	33.7
Motor & Pump P 319	CNEL	100.2	1	259.0	-59.3	5.0	-17.8	-0.8	-0.71	0.0	0.0	26.6	0.0	6.7	33.3
Motor & Pump P 327	CNEL	111.2	3	207.1	-57.3	4.6	-19.0	-1.1	-0.03	0.0	3.6	42.0	0.0	6.7	48.7
Motor & Pump P 328	CNEL	109.9	5	220.1	-57.8	4.4	-11.8	-0.8	-0.28	0.0	0.5	44.2	0.0	6.7	50.9
Motor & Pump P 329	CNEL	110.2	5	217.4	-57.7	4.4	-14.1	-0.8	-0.23	0.0	1.1	42.8	0.0	6.7	49.4
Motor & Pump P 451	CNEL	93.7		305.3	-60.7	4.9	-14.4	-1.4	-0.78	0.0	0.0	21.3	0.0	6.7	28.0
Motor & Pump P 453	CNEL	93.7		317.1	-61.0	4.9	-17.2	-1.4	-0.87	0.0	0.0	18.1	0.0	6.7	24.7
Motor & Pump P 454	CNEL	93.7		304.3	-60.7	4.9	-14.5	-1.4	-0.84	0.0	0.0	21.2	0.0	6.7	27.9
Motor & Pump P 457	CNEL	93.7		318.5	-61.1	4.9	-16.5	-1.4	-0.90	0.0	0.0	18.7	0.0	6.7	25.4
Motor & Pump P 458	CNEL	93.7		305.7	-60.7	4.9	-13.8	-1.2	-0.58	0.0	0.0	22.3	0.0	6.7	28.9
Motor & Pump P 459	CNEL	93.7		303.4	-60.6	4.9	-14.5	-1.4	-0.82	0.0	0.0	21.2	0.0	6.7	27.8
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		285.3	-60.1	4.9	-16.5	-1.3	-0.32	0.0	0.3	23.2	0.0	6.7	29.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		283.8	-60.1	4.9	-16.5	-1.2	-0.28	0.0	0.3	23.3	0.0	6.7	30.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		259.7	-59.3	4.8	-2.8	-3.0	-0.08	0.0	0.0	35.0	0.0	6.7	41.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		258.7	-59.2	4.8	-2.8	-3.0	-0.06	0.0	0.0	35.1	0.0	6.7	41.8
Motor & Pump P 1601 A	CNEL	96.3	2	299.1	-60.5	4.7	-2.1	-3.3	-0.50	0.0	0.0	34.6	0.0	6.7	41.3
Motor & Pump P 1601 B	CNEL	96.3	2	299.9	-60.5	4.7	-2.1	-3.3	-0.44	0.0	0.0	34.6	0.0	6.7	41.3
Motor & Pump P 1602 A	CNEL	96.3	2	300.7	-60.6	4.7	-3.7	-2.8	-0.23	0.0	0.0	33.7	0.0	6.7	40.3
Motor & Pump P 1602 B	CNEL	96.5	2	301.6	-60.6	4.7	-8.3	-1.5		0.0	1.9	32.7	0.0	6.7	39.4
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	289.3	-60.2	4.9	-14.3	-1.3	-0.26	0.0	0.0	25.5	0.0	6.7	32.2
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	285.0	-60.1	4.9	-9.5	-1.7	-0.25	0.0	0.0	30.1	0.0	6.7	36.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	282.9	-60.0	4.9	-11.3	-1.5	-0.28	0.0	0.1	28.5	0.0	6.7	35.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	282.8	-60.0	4.9	-16.9	-1.2	-0.23	0.0	0.3	23.5	0.0	6.7	30.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	281.2	-60.0	4.9	-15.1	-1.3	-0.17	0.0	0.2	25.2	0.0	6.7	31.9
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	282.0	-60.0	4.9	-2.1	-2.4	-0.49	0.0	0.0	36.2	0.0	6.7	42.9
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	280.8	-60.0	4.9	-3.5	-2.1	-0.41	0.0	0.0	35.3	0.0	6.7	41.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	278.8	-59.9	4.9	-6.4	-1.8	-0.27	0.0	0.0	32.8	0.0	6.7	39.5
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	279.7	-59.9	4.9	-4.5	-2.0	-0.32	0.0	0.0	34.5	0.0	6.7	41.1
P602 100 HP	CNEL	94.1		565.3	-66.0	5.1	-11.7	-1.5		0.0	0.0	19.9	0.0	6.7	26.6
P603 60 HP	CNEL	95.0		561.9	-66.0	5.3	-17.1	-2.3		0.0	0.0	14.9	0.0	6.7	21.6
P605 40 HP	CNEL	95.0		562.8	-66.0	5.3	-16.8	-2.3		0.0	0.0	15.2	0.0	6.7	21.8
P607 15 HP	CNEL	90.5		568.7	-66.1	5.2	-4.8	-2.3		0.0	0.0	22.5	0.0	6.7	29.2
P608 15 HP	CNEL	90.5		570.4	-66.1	5.2	-10.3	-1.7		0.0	0.0	17.5	0.0	6.7	24.2
P611 15 HP	CNEL	90.5		567.0	-66.1	5.2	-12.4	-1.6		0.0	0.0	15.5	0.0	6.7	22.2
P614/615 20 HP	CNEL	93.0		558.1	-65.9	5.0	-5.3	-2.1		0.0	0.0	24.7	0.0	6.7	31.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	365.8	-62.3	5.0	-6.7	-0.9	-0.14	0.0	0.0	69.8	-38.6	0.0	31.2
Scanner Blower C-084A/B	CNEL	95.5		399.7	-63.0	4.8	-23.6	-1.6	-0.42	0.0	0.0	11.7	0.0	6.7	18.4
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	385.6	-62.7	4.7	-7.3	-0.3	-0.28	0.0	0.0	5.6	0.0	6.7	12.3
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	385.0	-62.7	4.7	-7.5	-0.3	-0.10	0.0	0.0	4.0	0.0	6.7	10.6
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	386.8	-62.7	4.3	-5.8	-0.3	-0.14	0.0	0.2	4.9	0.0	6.7	11.6
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	388.5	-62.8	4.7	-14.4	-0.2	-0.23	0.0	0.1	-1.3	0.0	6.7	5.3
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	386.7	-62.7	4.6	-14.4	-0.3	-0.33	0.0	0.0	-1.3	0.0	6.7	5.4
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	399.5	-63.0	4.6	-19.9	-0.4		0.0	0.0	1.5	0.0	6.7	8.1
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	397.6	-63.0	4.6	-17.3	-0.4	-0.20	0.0	0.0	3.0	0.0	6.7	9.7
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	394.8	-62.9	4.6	-10.0	-0.4	-0.24	0.0	0.0	21.1	0.0	6.7	27.8
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	398.2	-63.0	4.6	-8.5	-0.5	-0.23	0.0	0.0	14.2	0.0	6.7	20.8
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	396.3	-63.0	4.0	-7.0	-0.6	-0.36	0.0	0.0	18.6	0.0	6.7	25.3
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	397.4	-63.0	4.6	-17.5	-0.3	-0.28	0.0	0.0	13.6	0.0	6.7	20.3
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	399.4	-63.0	4.6	-18.4	-0.3	-0.10	0.0	0.0	4.1	0.0	6.7	10.8
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	405.8	-63.2	4.8	-19.7	-1.1		0.0	0.0	20.1	0.0	6.7	26.7
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	401.0	-63.1	4.8	-10.9	-1.1	-0.13	0.0	0.0	34.3	0.0	6.7	41.0
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	402.4	-63.1	4.4	-7.5	-1.5	-0.15	0.0	0.0	33.5	0.0	6.7	40.2
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	403.8	-63.1	4.8	-20.0	-1.1	-0.18	0.0	0.0	25.1	0.0	6.7	31.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	398.1	-63.0	4.8	-10.6	-1.1	-0.30	0.0	1.3	24.6	0.0	6.7	31.3
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	400.1	-63.0	4.8	-21.7	-1.3	-0.33	0.0	0.0	12.1	0.0	6.7	18.7
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	390.7	-62.8	3.9	-6.9	-0.5	-0.45	0.0	0.0	11.4	0.0	6.7	18.0
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	391.5	-62.8	4.6	-8.0	-0.3	-0.32	0.0	0.0	5.0	0.0	6.7	11.7
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	388.3	-62.8	4.5	-9.4	-0.3	-0.30	0.0	0.0	10.6	0.0	6.7	17.3
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	386.4	-62.7	4.5	-7.4	-0.4	-0.40	0.0	0.0	7.0	0.0	6.7	13.7
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	395.0	-62.9	4.5	-18.4	-0.3	-0.25	0.0	0.0	-3.5	0.0	6.7	3.2
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	393.2	-62.9	4.5	-16.1	-0.3	-0.33	0.0	0.0	3.8	0.0	6.7	10.5
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	390.2	-62.8	4.5	-15.5	-0.3	-0.33	0.0	0.0	-1.1	0.0	6.7	5.6
Tank Farm Pump 1	CNEL	99.0	3	496.2	-64.9	4.9	-21.4	-2.1		0.0	2.4	17.8	0.0	6.7	24.5
Tank Farm Pump 2	CNEL	99.0	3	514.1	-65.2	4.9	-17.8	-2.2		0.0	0.0	18.7	0.0	6.7	25.3
Tank Farm Pump 3	CNEL	99.0	3	519.2	-65.3	4.9	-17.2	-2.2		0.0	0.0	19.1	0.0	6.7	25.8
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	284.2	-60.1	3.7	-5.6	-2.9	-0.02	0.0	0.2	47.7	-16.8	0.0	30.9
Vaporizer Blower 1	CNEL	88.7		393.7	-62.9	5.1	-21.3	-1.3		0.0	5.8	14.0	0.0	6.7	20.7
Vaporizer Blower 2	CNEL	88.7		392.8	-62.9	5.1	-21.4	-1.3		0.0	5.9	14.1	0.0	6.7	20.8
Vaporizer Inlet Silencer	CNEL	73.7		394.0	-62.9	4.5	-13.0	-0.4		0.0	2.0	3.9	0.0	6.7	10.6
Vaporizer Motor 1	CNEL	83.6		393.3	-62.9	5.1	-22.1	-1.7		0.0	5.8	7.9	0.0	6.7	14.6
Vaporizer Motor 2	CNEL	83.6		392.5	-62.9	5.1	-22.1	-1.7		0.0	5.9	8.0	0.0	6.7	14.7
Water Treatment Pumps P-056A&B	CNEL	93.0		398.0	-63.0	5.2	-19.1	-1.4	-0.58	0.0	0.0	14.2	0.0	6.7	20.8
XF-1502 Splitter Area 1	CNEL	104.5		282.8	-60.0	2.7	-2.2	-1.5	0.00	-4.0	0.0	39.5	0.0	6.7	46.1
XF-1502 Splitter Area 2	CNEL	104.5		286.1	-60.1	2.7	-2.1	-1.7		-4.0	0.0	39.3	0.0	6.7	46.0
XF-1504 Splitter Area 1	CNEL	104.5		285.1	-60.1	2.7	-4.5	-2.0	-0.21	-4.3	0.0	36.2	0.0	6.7	42.8
XF-1504 Splitter Area 2	CNEL	104.5		288.3	-60.2	2.7	-4.6	-2.0	-0.13	-4.2	0.0	36.1	0.0	6.7	42.8
XF 304, XF 321	CNEL	110.5	56	228.1	-58.2	2.5	-5.1	-0.6	-0.30	-2.3	0.1	46.7	0.0	6.7	53.3
XF 313, XF 314	CNEL	113.0	18	199.6	-57.0	2.6	-9.6	-0.6		-3.3	0.3	45.4	0.0	6.7	52.1
XF 335-1, XF 335-2	CNEL	113.4	54	216.7	-57.7	2.6	-5.1	-1.0	-0.32	-3.0	0.6	49.5	0.0	6.7	56.1
XF 503	CNEL	113.0	21	282.0	-60.0	2.9	-7.6	-2.5	-0.75	-3.5	0.0	41.6	0.0	6.7	48.3
XF - 1601	CNEL	96.6		301.6	-60.6	2.5	-0.3	-1.0		-2.8	0.0	34.4	0.0	6.7	41.1
XF - 1602	CNEL	96.6		304.9	-60.7	2.5	-0.3	-1.1		-2.8	0.0	34.3	0.0	6.7	41.0
XF Module 1510	CNEL	108.3		286.4	-60.1	2.7	-3.5	-1.7	-0.13	-4.1	0.1	41.6	0.0	6.7	48.3
XF Module 1519	CNEL	109.0		281.7	-60.0	2.7	-2.1	-1.8	-0.08	-4.2	0.0	43.6	0.0	6.7	50.2
xxxx xxxx xxxx xxxx	CNEL		606								7.6				29.1
xxxx xxxx xxxx xxxx	CNEL		606								7.9				29.2
xxxx xxxx xxxx xxxx	CNEL		917								1.7				23.2
xxxx xxxx xxxx xxxx	CNEL		917								1.6				23.4
xxxx xxxx xxxx xxxx	CNEL		608								1.6				51.6
xxxx xxxx xxxx xxxx	CNEL		608								1.7				51.2
xxxx xxxx xxxx xxxx	CNEL		1172								3.2				29.4
xxxx xxxx xxxx xxxx	CNEL		520								7.0				28.8
xxxx xxxx xxxx xxxx	CNEL		572								2.8				31.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver PHS Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 68.1 dB(A)			Ld 7-19 dB(A)		Leq,N 66.1 dB(A)		Le 19-22 dB(A)		CNEL 73.2 dB(A)		Lmax day hr dB(A)		Ld 7-19
2.8-Open Intake	CNEL	90.5	8	395.6	-62.9	3.7	-2.5	-0.1	-0.10	0.0	0.0	31.5	0.0	6.7	38.2
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	315.2	-61.0	4.9	-9.0	-1.9	-0.07	0.0	0.8	42.7	-10.8	0.0	32.0
Air Compressor C 1	CNEL	110.0	5	214.4	-57.6	4.9	-18.5	-0.5	-0.29	0.0	2.0	40.0	0.0	6.7	46.7
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		398.3	-63.0	5.3	-23.7	-3.1		0.0	5.1	20.8	0.0	6.7	27.5
Asphalt Production	CNEL	113.8	1206	469.1	-64.4	4.9	-9.2	-2.8	-0.35	0.0	1.0	42.9	0.0	6.7	49.5
BFW Pumps P-073A&B	CNEL	95.8		389.6	-62.8	5.4	-23.3	-1.9		0.0	1.4	14.6	0.0	6.7	21.3
Blower F 401	CNEL	113.0		288.3	-60.2	4.7	-11.5	-0.3	-0.89	0.0	0.1	44.9	0.0	6.7	51.6
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	588.6	-66.4	5.4	-20.0	-1.2		0.0	0.5	16.9	0.0	6.7	23.6
Brine Transfer P-085	CNEL	96.2		379.2	-62.6	5.5	-20.2	-1.6	-1.23	0.0	0.6	16.7	0.0	6.7	23.4
Burner H301 North	CNEL	96.1	10	159.8	-55.1	4.0	0.0	-1.4		0.0	1.5	48.0	0.0	6.7	54.7
Burner H301 South	CNEL	95.9	10	161.5	-55.2	4.0	-13.6	-0.7		0.0	2.8	36.3	0.0	6.7	42.9
Burner H302 North	CNEL	97.0	13	166.7	-55.4	4.0	-4.3	-1.1		0.0	0.7	43.9	0.0	6.7	50.6
Burner H302 South	CNEL	97.0	13	168.3	-55.5	4.0	-21.7	-0.9		0.0	1.1	27.0	0.0	6.7	33.7
Burner H303 North	CNEL	97.0	13	190.2	-56.6	4.3	-8.7	-1.1		0.0	1.3	39.2	0.0	6.7	45.8
Burner H303 South	CNEL	97.0	13	192.7	-56.7	4.3	-23.4	-1.3		0.0	1.0	23.9	0.0	6.7	30.6
Burner H304 North	CNEL	97.0	13	183.6	-56.3	4.2	-16.5	-0.7		0.0	3.1	33.8	0.0	6.7	40.5
Burner H304 South	CNEL	97.0	13	185.9	-56.4	4.2	-23.4	-1.2		0.0	13.2	36.4	0.0	6.7	43.1
Burner H305 North	CNEL	96.3	11	178.5	-56.0	4.1	-7.0	-1.1		0.0	1.7	41.1	0.0	6.7	47.8
Burner H305 South	CNEL	96.3	11	180.8	-56.1	4.2	-23.4	-1.2		0.0	9.8	32.6	0.0	6.7	39.3
Burner H306 North	CNEL	95.0	8	173.8	-55.8	4.1	-6.9	-1.0		0.0	1.7	40.1	0.0	6.7	46.8
Burner H306 South	CNEL	95.1	8	175.7	-55.9	4.1	-23.1	-1.1		0.0	5.8	27.9	0.0	6.7	34.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	238.4	-58.5	4.2	-21.2	-0.6		-7.8	0.4	21.2	0.0	6.7	27.8
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	238.0	-58.5	4.2	-20.9	-0.9	-0.11	0.0	1.7	26.0	0.0	6.7	32.7
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	227.3	-58.1	4.1	-15.4	-0.4	-0.03	2.6	2.7	41.9	0.0	6.7	48.5
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	233.0	-58.3	4.1	-21.6	-0.7		-7.7	0.4	26.9	0.0	6.7	33.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	238.3	-58.5	4.2	-21.0	-0.6	-0.01	-7.6	0.5	20.6	0.0	6.7	27.3
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	222.5	-57.9	4.0	-17.8	-0.5		2.5	1.7	32.3	0.0	6.7	39.0
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	294.8	-60.4	4.6	-18.3	-0.8	-0.57	-7.8	11.1	25.7	0.0	6.7	32.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	284.4	-60.1	4.5	-6.5	-1.3	-0.71	1.6	0.3	35.6	0.0	6.7	42.3
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	316.5	-61.0	4.3	-19.3	-0.9	-0.49	-7.8	0.3	15.7	0.0	6.7	22.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	301.1	-60.6	4.3	-9.6	-0.9	-0.15	1.4	1.3	36.4	0.0	6.7	43.0
Cooling Tower M 512	CNEL	95.7		293.1	-60.3	5.0	-22.1	-1.1	-0.73	0.0	3.2	19.7	0.0	6.7	26.4
Cooling Tower M 513	CNEL	95.7		291.9	-60.3	5.0	-6.2	-1.3	-0.72	0.0	0.5	32.7	0.0	6.7	39.4
Cooling Tower M 514	CNEL	95.7		294.4	-60.4	5.0	-21.8	-1.1	-0.73	0.0	4.5	21.2	0.0	6.7	27.8
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	572.2	-66.1	5.5	-12.1	-2.5	-0.17	0.0	0.7	39.2	0.0	6.7	45.8
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	572.2	-66.1	5.2	-10.4	-2.9	-0.08	0.0	1.1	40.6	0.0	6.7	47.2
CT Y-600-CT Y-600 North	CNEL	96.4	51	529.3	-65.5	5.0	-15.5	-1.2		0.0	0.2	22.4	0.0	6.7	29.1
CT Y-600-CT Y-600 South	CNEL	96.4	52	538.5	-65.6	5.0	-21.9	-1.6		0.0	0.5	15.7	0.0	6.7	22.4
Deaerator Skid P-058A&B	CNEL	96.2		384.5	-62.7	4.1	-6.2	-1.6	-0.27	0.0	0.1	29.5	0.0	6.7	36.2
Exhaust Stack	CNEL	100.6		367.8	-62.3	2.8	-4.1	-0.6		0.0	0.1	36.6	0.0	6.7	43.3
F.G. After Cooler XF-083ABC	CNEL	100.2		410.3	-63.3	4.9	-11.7	-0.7	-0.71	0.0	5.2	33.9	0.0	6.7	40.6
Fan Y-600	CNEL	107.5		533.7	-65.5	4.1	-14.8	-1.0		0.0	0.6	30.9	0.0	6.7	37.6
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	418.4	-63.4	4.5	-5.0	-0.3	-0.38	0.0	0.1	17.9	0.0	6.7	24.6
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	423.7	-63.5	5.1	-14.7	-0.2	-0.26	0.0	0.0	7.2	0.0	6.7	13.8
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	425.2	-63.6	5.1	-22.6	-2.0	-0.11	0.0	0.7	-8.4	0.0	6.7	-1.7
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	416.4	-63.4	5.0	-6.8	-0.2	-0.33	0.0	0.0	18.0	0.0	6.7	24.7
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	420.3	-63.5	5.0	-15.0	-0.2	-0.47	0.0	0.0	0.9	0.0	6.7	7.6
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	413.0	-63.3	5.0	-6.7	-0.2	-0.36	0.0	0.0	15.3	0.0	6.7	21.9
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	414.1	-63.3	5.0	-15.0	-1.9	-0.25	0.0	0.3	-1.1	0.0	6.7	5.6
Fin Fan XF 616 - Above	CNEL	96.0	75	557.5	-65.9	3.3	-8.2	-0.9		-8.8	1.4	16.9	0.0	6.7	23.6
Fin Fan XF 616 - Below	CNEL	108.0	75	557.5	-65.9	3.5	-9.0	-1.1		-9.7	1.6	27.4	0.0	6.7	34.0
Fin Fan XF 617 - Above	CNEL	93.0	21	564.0	-66.0	3.3	-6.2	-1.1		-8.8	0.9	15.0	0.0	6.7	21.7
Fin Fan XF 617 - Below	CNEL	104.0	21	564.0	-66.0	3.4	-6.5	-1.5		-9.7	0.9	24.6	0.0	6.7	31.3
Heater # 5-Heater	CNEL	91.1	13	589.0	-66.4	5.4	-22.4	-1.5		0.0	1.8	10.9	0.0	6.7	17.6
Heater # 5-Heater	CNEL	91.1	13	585.0	-66.3	5.4	-22.1	-1.4		0.0	0.5	10.2	0.0	6.7	16.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	580.8	-66.3	5.4	-22.3	-1.5		0.0	0.6	10.1	0.0	6.7	16.8
Heater H 601	CNEL	89.1	13	576.7	-66.2	5.3	-13.8	-0.8		0.0	0.8	14.4	0.0	6.7	21.0
Hydro Heater H-402	CNEL	98.1		271.2	-59.7	4.9	-14.6	-0.5	-0.56	0.0	0.3	28.0	0.0	6.7	34.7
ID Fan	CNEL	110.3		164.3	-55.3	3.4	-14.0	-0.3		0.0	3.4	47.5	0.0	6.7	54.1
ID Fan 200 HP Motor	CNEL	104.4		165.4	-55.4	4.2	-22.5	-1.2		0.0	8.6	38.1	0.0	6.7	44.7
Incinirator Compressor & Motor	CNEL	92.5		664.4	-67.4	5.6	-4.9	-2.1		0.0	0.6	24.3	0.0	6.7	30.9
Incinirator Fin Fan	CNEL	94.8		663.7	-67.4	5.6	-4.8	-2.0		0.0	0.1	26.2	0.0	6.7	32.8
Lub Oil Cooler XF-061	CNEL	100.5		387.1	-62.7	5.1	-12.9	-0.6	-0.70	0.0	6.9	35.6	0.0	6.7	42.3
Misc pumps motors	CNEL	100.2	332	395.0	-62.9	5.1	-10.8	-2.1	0.00	0.0	2.1	31.6	0.0	6.7	38.3
Motor & Pump P 56A/B	CNEL	93.7		255.2	-59.1	4.9	-15.0	-0.9	-0.60	0.0	3.2	26.0	0.0	6.7	32.7
Motor & Pump P 120/121	CNEL	96.2	2	220.5	-57.9	4.8	-9.0	-0.7	-0.08	0.0	0.2	33.7	0.0	6.7	40.3
Motor & Pump P 211/212	CNEL	93.7		256.1	-59.2	5.0	-21.4	-1.3	-0.22	0.0	0.8	17.4	0.0	6.7	24.1
Motor & Pump P 215/214	CNEL	94.6		252.4	-59.0	5.0	-21.6	-1.4	-0.21	0.0	0.8	18.2	0.0	6.7	24.8
Motor & Pump P 216	CNEL	98.3		250.9	-59.0	4.9	-21.7	-1.3	-0.16	0.0	1.9	22.9	0.0	6.7	29.6
Motor & Pump P 217/218	CNEL	93.7		254.6	-59.1	5.2	-22.0	-1.4	-0.21	0.0	0.8	17.0	0.0	6.7	23.7
Motor & Pump P 300	CNEL	97.1	2	209.0	-57.4	4.8	-6.9	-0.8	-0.47	0.0	0.2	36.6	0.0	6.7	43.2
Motor & Pump P 301	CNEL	102.1	2	209.8	-57.4	4.8	-5.2	-0.9	-0.46	0.0	0.1	43.0	0.0	6.7	49.7
Motor & Pump P 302	CNEL	97.1	2	208.1	-57.4	4.8	-8.0	-0.7	-0.47	0.0	0.4	35.9	0.0	6.7	42.5
Motor & Pump P 303	CNEL	97.1	2	207.4	-57.3	4.8	-9.0	-0.7	-0.39	0.0	0.7	35.1	0.0	6.7	41.8
Motor & Pump P 305	CNEL	97.5	2	206.7	-57.3	4.8	-9.9	-0.7	-0.28	0.0	1.5	35.6	0.0	6.7	42.3
Motor & Pump P 306	CNEL	112.6	4	202.7	-57.1	4.5	-1.5	-2.4	-0.43	0.0	1.7	57.5	0.0	6.7	64.2
Motor & Pump P 307	CNEL	102.1	2	212.3	-57.5	4.8	-8.6	-0.7	-0.20	0.0	0.1	39.9	0.0	6.7	46.6
Motor & Pump P 309	CNEL	97.5	2	206.0	-57.3	4.8	-9.0	-0.7	-0.28	0.0	6.5	41.4	0.0	6.7	48.1
Motor & Pump P 312	CNEL	101.5	2	224.3	-58.0	5.0	-13.6	-0.7	-0.51	0.0	3.8	37.5	0.0	6.7	44.2
Motor & Pump P 313	CNEL	101.5	2	225.3	-58.0	5.0	-14.3	-0.7	-0.52	0.0	7.0	40.0	0.0	6.7	46.7
Motor & Pump P 315	CNEL	102.9	2	229.0	-58.2	4.9	-18.8	-0.8	-0.17	0.0	8.5	38.3	0.0	6.7	44.9
Motor & Pump P 316	CNEL	102.9	2	230.2	-58.2	4.9	-16.0	-0.7	-0.53	0.0	2.5	34.9	0.0	6.7	41.6
Motor & Pump P 317	CNEL	102.9	2	231.5	-58.3	4.9	-17.9	-0.7	-0.52	0.0	2.1	32.5	0.0	6.7	39.2
Motor & Pump P 318	CNEL	100.2	1	228.2	-58.2	5.1	-17.4	-0.8	-0.15	0.0	4.1	33.0	0.0	6.7	39.7
Motor & Pump P 319	CNEL	100.2	1	227.3	-58.1	5.1	-18.4	-0.8	-0.14	0.0	6.5	34.4	0.0	6.7	41.0
Motor & Pump P 327	CNEL	111.2	3	198.8	-57.0	4.7	-2.3	-1.9	-0.14	0.0	4.2	58.9	0.0	6.7	65.6
Motor & Pump P 328	CNEL	109.9	5	205.3	-57.2	4.6	-4.0	-1.1	-0.36	0.0	4.5	56.3	0.0	6.7	63.0
Motor & Pump P 329	CNEL	110.2	5	204.0	-57.2	4.6	-1.6	-1.2	-0.41	0.0	4.4	58.8	0.0	6.7	65.5
Motor & Pump P 451	CNEL	93.7		276.3	-59.8	5.0	-14.7	-1.0	-1.27	0.0	5.1	26.8	0.0	6.7	33.5
Motor & Pump P 453	CNEL	93.7		285.9	-60.1	5.0	-15.3	-1.0	-1.26	0.0	2.2	23.1	0.0	6.7	29.8
Motor & Pump P 454	CNEL	93.7		274.9	-59.8	5.0	-14.7	-1.0	-1.30	0.0	2.2	24.1	0.0	6.7	30.8
Motor & Pump P 457	CNEL	93.7		286.9	-60.1	5.0	-15.2	-1.0	-1.22	0.0	3.2	24.2	0.0	6.7	30.9
Motor & Pump P 458	CNEL	93.7		277.2	-59.8	5.0	-14.6	-1.0	-1.24	0.0	5.0	26.9	0.0	6.7	33.6
Motor & Pump P 459	CNEL	93.7		274.3	-59.8	5.0	-14.8	-1.0	-1.26	0.0	2.3	24.1	0.0	6.7	30.8
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		271.5	-59.7	5.0	-14.1	-1.2	-0.26	0.0	3.8	29.8	0.0	6.7	36.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		270.7	-59.6	5.0	-12.2	-1.3	-0.26	0.0	2.9	30.7	0.0	6.7	37.4
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.2	-59.4	5.0	-13.6	-1.0	-0.26	0.0	1.2	27.3	0.0	6.7	33.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		262.7	-59.4	5.0	-9.3	-1.2	-0.35	0.0	0.4	30.6	0.0	6.7	37.3
Motor & Pump P 1601 A	CNEL	96.3	2	295.7	-60.4	4.9	-10.1	-1.4	-1.03	0.0	3.6	31.9	0.0	6.7	38.5
Motor & Pump P 1601 B	CNEL	96.3	2	297.1	-60.5	4.9	-8.9	-1.4	-1.03	0.0	2.8	32.2	0.0	6.7	38.8
Motor & Pump P 1602 A	CNEL	96.3	2	298.2	-60.5	4.9	-8.0	-1.5	-1.03	0.0	1.5	31.8	0.0	6.7	38.5
Motor & Pump P 1602 B	CNEL	96.5	2	299.6	-60.5	4.9	-6.9	-1.5	-0.98	0.0	1.1	32.6	0.0	6.7	39.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	279.2	-59.9	5.1	-11.5	-1.3	-0.40	0.0	0.1	28.7	0.0	6.7	35.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	276.7	-59.8	5.1	-15.1	-1.2	-0.39	0.0	0.4	25.5	0.0	6.7	32.2
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	275.5	-59.8	5.1	-14.7	-1.2	-0.84	0.0	0.3	25.5	0.0	6.7	32.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	270.4	-59.6	5.0	-11.9	-1.3	-0.26	0.0	0.2	28.8	0.0	6.7	35.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	269.5	-59.6	5.0	-11.6	-1.3	-0.26	0.0	1.0	29.9	0.0	6.7	36.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	279.1	-59.9	5.1	-9.0	-1.4	-0.78	0.0	0.3	30.6	0.0	6.7	37.3
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	277.1	-59.8	5.1	-8.0	-1.4	-0.69	0.0	1.1	32.5	0.0	6.7	39.2
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	273.5	-59.7	5.1	-7.7	-1.3	-0.69	0.0	1.2	33.1	0.0	6.7	39.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	275.1	-59.8	5.1	-8.0	-1.4	-0.57	0.0	1.7	33.4	0.0	6.7	40.0
P602 100 HP	CNEL	94.1		557.0	-65.9	5.4	-16.0	-1.5		0.0	0.2	16.4	0.0	6.7	23.0
P603 60 HP	CNEL	95.0		552.6	-65.8	5.5	-20.9	-2.3		0.0	0.8	12.2	0.0	6.7	18.9
P605 40 HP	CNEL	95.0		553.7	-65.9	5.5	-20.5	-2.3		0.0	0.7	12.6	0.0	6.7	19.3
P607 15 HP	CNEL	90.5		561.5	-66.0	5.5	-20.1	-1.7		0.0	2.5	10.7	0.0	6.7	17.4
P608 15 HP	CNEL	90.5		563.6	-66.0	5.5	-19.9	-1.7		0.0	2.5	10.9	0.0	6.7	17.5
P611 15 HP	CNEL	90.5		559.2	-65.9	5.5	-19.5	-1.7		0.0	0.8	9.6	0.0	6.7	16.3
P614/615 20 HP	CNEL	93.0		551.0	-65.8	5.3	-19.8	-1.7		0.0	3.1	14.1	0.0	6.7	20.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	299.0	-60.5	5.0	-7.9	-0.6	-0.06	0.0	0.9	71.7	-38.6	0.0	33.1
Scanner Blower C-084A/B	CNEL	95.5		388.2	-62.8	5.1	-22.8	-1.3	-0.77	0.0	0.8	13.8	0.0	6.7	20.4
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	369.8	-62.4	5.0	-12.3	-0.2		0.0	0.0	1.7	0.0	6.7	8.4
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	368.3	-62.3	5.0	-11.4	-0.2		0.0	0.0	1.0	0.0	6.7	7.6
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	370.4	-62.4	4.6	-10.7	-0.2		0.0	0.3	1.1	0.0	6.7	7.8
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	371.8	-62.4	5.0	-19.6	-0.2	-0.24	0.0	1.1	-4.8	0.0	6.7	1.8
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	369.5	-62.3	5.0	-17.0	-0.3		0.0	0.0	-2.7	0.0	6.7	3.9
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	388.8	-62.8	5.0	-17.6	-0.3	-0.45	0.0	0.0	4.0	0.0	6.7	10.7
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	387.5	-62.8	5.0	-13.0	-0.3	-0.49	0.0	0.0	7.7	0.0	6.7	14.3
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	383.6	-62.7	5.0	-5.1	-0.5	-0.61	0.0	0.0	26.3	0.0	6.7	32.9
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	388.2	-62.8	5.0	-7.4	-0.5	-0.58	0.0	0.0	15.6	0.0	6.7	22.2
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	384.8	-62.7	4.4	-5.4	-0.5	-0.48	0.0	0.0	20.7	0.0	6.7	27.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	385.4	-62.7	5.0	-17.8	-0.3	-0.46	0.0	0.0	13.8	0.0	6.7	20.5
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	389.0	-62.8	5.0	-17.3	-0.3	-0.44	0.0	0.0	5.6	0.0	6.7	12.3
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	398.7	-63.0	5.1	-20.0	-1.1	-0.68	0.0	0.3	19.9	0.0	6.7	26.6
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	392.9	-62.9	5.1	-11.3	-1.0	-0.74	0.0	0.8	34.7	0.0	6.7	41.4
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	393.9	-62.9	4.7	-8.9	-1.2	-0.76	0.0	0.8	33.1	0.0	6.7	39.7
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	394.8	-62.9	5.1	-20.7	-1.2	-0.77	0.0	0.3	24.6	0.0	6.7	31.2
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	388.4	-62.8	5.1	-6.8	-1.1	-0.80	0.0	0.0	27.2	0.0	6.7	33.8
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	389.8	-62.8	5.1	-21.8	-1.3	-0.77	0.0	0.4	12.5	0.0	6.7	19.2
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	376.4	-62.5	4.3	-9.2	-0.4	-0.40	0.0	0.0	9.8	0.0	6.7	16.5
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	379.0	-62.6	5.0	-12.3	-0.2	-0.39	0.0	0.0	1.3	0.0	6.7	8.0
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	374.8	-62.5	4.9	-6.4	-0.4	-0.47	0.0	0.0	14.2	0.0	6.7	20.8
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	371.4	-62.4	4.9	-13.3	-0.3		0.0	0.0	2.3	0.0	6.7	9.0
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	381.5	-62.6	4.9	-18.6	-0.3	-0.37	0.0	0.0	-3.1	0.0	6.7	3.6
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	378.1	-62.5	4.9	-21.7	-0.3	-0.21	0.0	0.0	-0.8	0.0	6.7	5.9
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	374.0	-62.4	4.9	-20.4	-0.3	-0.55	0.0	0.0	-5.4	0.0	6.7	1.3
Tank Farm Pump 1	CNEL	99.0	3	535.9	-65.6	5.5	-19.1	-2.2		0.0	1.2	18.9	0.0	6.7	25.5
Tank Farm Pump 2	CNEL	99.0	3	556.3	-65.9	5.5	-18.7	-2.2		0.0	3.2	21.0	0.0	6.7	27.6
Tank Farm Pump 3	CNEL	99.0	3	562.0	-66.0	5.5	-16.8	-2.2		0.0	2.7	22.2	0.0	6.7	28.9
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	146.5	-54.3	2.0	-5.6	-2.1	0.00	0.0	0.6	53.0	-16.8	0.0	36.2
Vaporizer Blower 1	CNEL	88.7		383.0	-62.7	5.3	-7.9	-1.1	-0.78	0.0	2.2	23.7	0.0	6.7	30.4
Vaporizer Blower 2	CNEL	88.7		382.2	-62.6	5.3	-7.8	-1.1	-0.78	0.0	2.1	23.7	0.0	6.7	30.4
Vaporizer Inlet Silencer	CNEL	73.7		383.8	-62.7	4.8	-5.1	-0.6	-0.68	0.0	1.8	11.3	0.0	6.7	18.0
Vaporizer Motor 1	CNEL	83.6		382.5	-62.6	5.3	-8.6	-1.4	-0.77	0.0	2.2	17.8	0.0	6.7	24.5
Vaporizer Motor 2	CNEL	83.6		381.8	-62.6	5.3	-8.6	-1.4	-0.77	0.0	2.2	17.8	0.0	6.7	24.5
Water Treatment Pumps P-056A&B	CNEL	93.0		380.3	-62.6	5.5	-16.7	-1.3	-1.14	0.0	0.9	17.6	0.0	6.7	24.3
XF-1502 Splitter Area 1	CNEL	104.5		276.9	-59.8	2.9	-3.4	-1.3	-0.01	-3.9	0.2	39.2	0.0	6.7	45.9
XF-1502 Splitter Area 2	CNEL	104.5		278.7	-59.9	2.9	-2.2	-1.6		-4.0	0.1	39.9	0.0	6.7	46.5
XF-1504 Splitter Area 1	CNEL	104.5		280.8	-60.0	2.9	-3.5	-1.3	-0.04	-3.8	0.2	39.0	0.0	6.7	45.7
XF-1504 Splitter Area 2	CNEL	104.5		282.6	-60.0	2.9	-3.8	-1.3		-3.8	0.2	38.6	0.0	6.7	45.3
XF 304, XF 321	CNEL	110.5	56	205.2	-57.2	2.9	-6.0	-0.5	-0.01	-2.2	0.6	48.1	0.0	6.7	54.8
XF 313, XF 314	CNEL	113.0	18	191.6	-56.6	2.9	-4.0	-0.7		-3.6	1.9	52.9	0.0	6.7	59.6
XF 335-1, XF 335-2	CNEL	113.4	54	199.5	-57.0	2.9	-4.4	-0.9	-0.17	-2.8	1.5	52.6	0.0	6.7	59.3
XF 503	CNEL	113.0	21	248.9	-58.9	2.9	-11.6	-0.7	-0.55	-3.1	0.4	41.5	0.0	6.7	48.1
XF - 1601	CNEL	96.6		298.6	-60.5	2.9	-1.5	-0.8		-2.2	0.3	34.8	0.0	6.7	41.5
XF - 1602	CNEL	96.6		303.8	-60.6	2.9	-2.2	-0.8		-2.0	0.3	34.2	0.0	6.7	40.9
XF Module 1510	CNEL	108.3		275.5	-59.8	2.9	-6.5	-1.2	-0.05	-3.6	0.1	40.3	0.0	6.7	46.9
XF Module 1519	CNEL	109.0		272.8	-59.7	2.9	-7.7	-1.1	-0.05	-3.4	0.2	40.3	0.0	6.7	46.9
xxxx xxxx xxxx xxxx	CNEL		606								6.8				28.3
xxxx xxxx xxxx xxxx	CNEL		606								7.1				28.5
xxxx xxxx xxxx xxxx	CNEL		917								0.5				31.2
xxxx xxxx xxxx xxxx	CNEL		917								0.6				31.2
xxxx xxxx xxxx xxxx	CNEL		608								1.2				62.1
xxxx xxxx xxxx xxxx	CNEL		608								0.7				64.7
xxxx xxxx xxxx xxxx	CNEL		1172								6.2				31.5
xxxx xxxx xxxx xxxx	CNEL		520								7.3				27.9
xxxx xxxx xxxx xxxx	CNEL		572								6.2				32.2

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver RMHP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.0 dB(A) Ld 7-19 dB(A) Leq,N 62.2 dB(A) Le 19-22 dB(A) CNEL 71.1 dB(A) Lmax day hr dB(A) Ld 7-															
2.8-Open Intake	CNEL	90.5	8	524.4	-65.4	4.3	-3.5	-0.2		0.0	0.0	28.6	0.0	6.7	35.3
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	602.9	-66.6	5.5	-14.1	-2.0	-0.02	0.0	0.0	31.8	-10.8	0.0	21.0
Air Compressor C 1	CNEL	110.0	5	634.9	-67.0	5.6	-22.0	-1.4		0.0	5.6	30.7	0.0	6.7	37.4
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		537.0	-65.6	5.4	-19.0	-2.3		0.0	0.0	18.8	0.0	6.7	25.5
Asphalt Production	CNEL	113.8	1206	488.1	-64.8	4.9	-16.5	-1.7		0.0	0.1	35.9	0.0	6.7	42.5
BFW Pumps P-073A&B	CNEL	95.8		546.3	-65.7	5.5	-17.2	-1.7		0.0	0.0	16.7	0.0	6.7	23.4
Blower F 401	CNEL	113.0		639.8	-67.1	5.4	-16.4	-0.8	-0.11	0.0	0.0	34.0	0.0	6.7	40.7
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	466.6	-64.4	5.3	-15.2	-0.9		0.0	0.7	24.0	0.0	6.7	30.7
Brine Transfer P-085	CNEL	96.2		559.2	-65.9	5.6	-17.6	-1.7		0.0	0.0	16.5	0.0	6.7	23.2
Burner H301 North	CNEL	96.1	10	687.1	-67.7	5.5	-17.0	-2.1		0.0	0.0	17.8	0.0	6.7	24.4
Burner H301 South	CNEL	95.9	10	687.2	-67.7	5.5	-24.7	-3.3	-0.40	0.0	0.9	9.2	0.0	6.7	15.9
Burner H302 North	CNEL	97.0	13	688.5	-67.8	5.5	-23.5	-2.7		0.0	0.0	11.5	0.0	6.7	18.2
Burner H302 South	CNEL	97.0	13	688.6	-67.8	5.5	-24.2	-3.0	-0.41	0.0	0.0	10.1	0.0	6.7	16.8
Burner H303 North	CNEL	97.0	13	692.0	-67.8	5.5	-24.8	-3.4		0.0	0.0	9.6	0.0	6.7	16.2
Burner H303 South	CNEL	97.0	13	692.4	-67.8	5.5	-24.8	-3.3	-0.27	0.0	0.0	9.3	0.0	6.7	16.0
Burner H304 North	CNEL	97.0	13	691.0	-67.8	5.5	-19.2	-2.1	-0.96	0.0	0.0	15.4	0.0	6.7	22.1
Burner H304 South	CNEL	97.0	13	691.3	-67.8	5.5	-24.8	-3.3	-0.27	0.0	0.0	9.3	0.0	6.7	16.0
Burner H305 North	CNEL	96.3	11	689.2	-67.8	5.5	-12.1	-2.2	-0.65	0.0	0.0	22.1	0.0	6.7	28.8
Burner H305 South	CNEL	96.3	11	689.5	-67.8	5.5	-24.7	-3.3	-0.41	0.0	0.0	8.6	0.0	6.7	15.2
Burner H306 North	CNEL	95.0	8	687.2	-67.7	5.5	-12.2	-2.2	-0.45	0.0	0.0	21.0	0.0	6.7	27.7
Burner H306 South	CNEL	95.1	8	687.4	-67.7	5.5	-24.8	-3.3	-0.44	0.0	0.0	7.3	0.0	6.7	13.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	660.8	-67.4	5.3	-17.7	-1.3	-0.70	0.1	0.0	23.1	0.0	6.7	29.7
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	656.0	-67.3	5.3	-14.4	-1.4	-0.79	0.0	0.0	21.8	0.0	6.7	28.5
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	667.1	-67.5	5.3	-15.4	-1.3	-0.88	3.9	0.0	30.6	0.0	6.7	37.3
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	670.8	-67.5	5.3	-22.5	-1.6	-0.72	-3.0	0.0	20.7	0.0	6.7	27.4
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	658.3	-67.4	5.3	-22.3	-1.5	-0.72	-2.9	0.0	14.2	0.0	6.7	20.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	679.7	-67.6	5.3	-23.2	-2.1	-0.64	-7.8	0.0	4.3	0.0	6.7	11.0
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	588.0	-66.4	5.3	-20.7	-1.4		0.0	0.5	15.1	0.0	6.7	21.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	600.3	-66.6	5.3	-22.8	-1.8		-7.8	0.0	4.1	0.0	6.7	10.8
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	563.9	-66.0	5.0	-16.5	-1.2		0.0	0.0	21.8	0.0	6.7	28.5
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	581.6	-66.3	5.1	-23.1	-1.9		-7.8	7.5	14.3	0.0	6.7	20.9
Cooling Tower M 512	CNEL	95.7		595.4	-66.5	5.5	-23.5	-2.3		0.0	0.0	8.9	0.0	6.7	15.6
Cooling Tower M 513	CNEL	95.7		596.8	-66.5	5.5	-23.2	-2.3		0.0	0.0	9.2	0.0	6.7	15.9
Cooling Tower M 514	CNEL	95.7		593.9	-66.5	5.5	-23.7	-2.4		0.0	0.0	8.6	0.0	6.7	15.3
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	433.7	-63.7	5.4	-15.8	-2.6		0.0	0.5	37.5	0.0	6.7	44.1
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	433.7	-63.7	5.0	-15.0	-2.4		0.0	0.4	38.0	0.0	6.7	44.6
CT Y-600-CT Y-600 North	CNEL	96.4	51	488.6	-64.8	4.9	-12.8	-1.1		0.0	0.1	25.7	0.0	6.7	32.4
CT Y-600-CT Y-600 South	CNEL	96.4	52	497.2	-64.9	4.9	-21.1	-1.4		0.0	0.1	17.0	0.0	6.7	23.7
Deaerator Skid P-058A&B	CNEL	96.2		540.5	-65.6	4.6	-5.0	-2.9		0.0	0.0	27.2	0.0	6.7	33.9
Exhaust Stack	CNEL	100.6		560.5	-66.0	3.1	-4.7	-0.9		0.0	0.0	32.2	0.0	6.7	38.9
F.G. After Cooler XF-083ABC	CNEL	100.2		522.1	-65.3	5.1	-17.9	-0.8		0.0	0.0	21.3	0.0	6.7	27.9
Fan Y-600	CNEL	107.5		492.6	-64.8	4.0	-14.6	-1.0		0.0	0.1	31.2	0.0	6.7	37.8
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	512.8	-65.2	4.8	-8.0	-0.3		0.0	0.0	13.7	0.0	6.7	20.4
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	506.6	-65.1	5.2	-10.8	-0.2		0.0	0.0	9.8	0.0	6.7	16.5
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	507.5	-65.1	5.2	-19.0	-1.8		0.0	0.0	-6.6	0.0	6.7	0.1
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	511.4	-65.2	5.2	-6.8	-0.3		0.0	0.0	16.7	0.0	6.7	23.3
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	513.8	-65.2	5.2	-16.8	-0.2		0.0	0.0	-2.1	0.0	6.7	4.6
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	518.6	-65.3	5.2	-16.3	-0.2		0.0	0.0	4.3	0.0	6.7	10.9
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	519.3	-65.3	5.2	-23.2	-2.6		0.0	0.0	-11.8	0.0	6.7	-5.1
Fin Fan XF 616 - Above	CNEL	96.0	75	470.1	-64.4	2.9	-4.5	-1.1		-9.5	0.1	19.4	0.0	6.7	26.1
Fin Fan XF 616 - Below	CNEL	108.0	75	470.0	-64.4	3.0	-4.6	-1.4		-9.2	0.1	31.5	0.0	6.7	38.1
Fin Fan XF 617 - Above	CNEL	93.0	21	463.6	-64.3	2.9	-4.5	-1.0		-9.8	0.1	16.3	0.0	6.7	23.0
Fin Fan XF 617 - Below	CNEL	104.0	21	463.6	-64.3	2.9	-4.6	-1.4		-9.1	0.2	27.6	0.0	6.7	34.2
Heater # 5-Heater	CNEL	91.1	13	461.7	-64.3	5.3	-22.7	-1.2		0.0	1.9	13.0	0.0	6.7	19.7
Heater # 5-Heater	CNEL	91.1	13	465.5	-64.4	5.3	-22.7	-1.2		0.0	5.5	16.6	0.0	6.7	23.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	469.5	-64.4	5.3	-23.4	-1.3		0.0	2.6	12.8	0.0	6.7	19.5
Heater H 601	CNEL	89.1	13	477.4	-64.6	5.2	-17.7	-0.7		0.0	2.2	13.6	0.0	6.7	20.2
Hydro Heater H-402	CNEL	98.1		622.0	-66.9	5.5	-23.3	-1.5		0.0	0.0	11.9	0.0	6.7	18.6
ID Fan	CNEL	110.3		704.9	-68.0	5.3	-24.2	-1.7		0.0	0.0	21.7	0.0	6.7	28.4
ID Fan 200 HP Motor	CNEL	104.4		705.1	-68.0	5.5	-23.6	-3.3	-0.40	0.0	0.0	14.7	0.0	6.7	21.4
Incinirator Compressor & Motor	CNEL	92.5		436.6	-63.8	5.4	-23.0	-1.2		0.0	0.1	10.0	0.0	6.7	16.7
Incinirator Fin Fan	CNEL	94.8		437.4	-63.8	5.4	-22.1	-0.9		0.0	0.1	13.4	0.0	6.7	20.0
Lub Oil Cooler XF-061	CNEL	100.5		534.3	-65.5	5.3	-9.6	-1.0		0.0	1.3	31.0	0.0	6.7	37.7
Misc pumps motors	CNEL	100.2	332	468.1	-64.4	5.3	-21.9	-2.1		0.0	1.7	18.7	0.0	6.7	25.4
Motor & Pump P 56A/B	CNEL	93.7		627.5	-66.9	5.5	-24.8	-4.0	-0.19	0.0	0.0	3.2	0.0	6.7	9.8
Motor & Pump P 120/121	CNEL	96.2	2	635.3	-67.1	5.6	-16.6	-1.8	-0.23	0.0	0.0	16.0	0.0	6.7	22.7
Motor & Pump P 211/212	CNEL	93.7		650.7	-67.3	5.6	-19.1	-2.3	-0.59	0.0	0.0	9.9	0.0	6.7	16.6
Motor & Pump P 215/214	CNEL	94.6		650.1	-67.3	5.6	-24.8	-4.1	-0.23	0.0	0.0	3.7	0.0	6.7	10.4
Motor & Pump P 216	CNEL	98.3		657.1	-67.3	5.5	-18.6	-2.4	-0.73	0.0	0.0	14.8	0.0	6.7	21.5
Motor & Pump P 217/218	CNEL	93.7		650.6	-67.3	5.7	-19.5	-2.4	-0.59	0.0	0.0	9.6	0.0	6.7	16.2
Motor & Pump P 300	CNEL	97.1	2	647.0	-67.2	5.6	-15.7	-1.8	-0.23	0.0	0.0	17.7	0.0	6.7	24.3
Motor & Pump P 301	CNEL	102.1	2	647.2	-67.2	5.6	-15.8	-1.8	-0.23	0.0	0.0	22.6	0.0	6.7	29.3
Motor & Pump P 302	CNEL	97.1	2	646.9	-67.2	5.6	-15.7	-1.8	-0.23	0.0	0.0	17.7	0.0	6.7	24.3
Motor & Pump P 303	CNEL	97.1	2	646.9	-67.2	5.6	-20.6	-1.9	-0.22	0.0	0.0	12.8	0.0	6.7	19.4
Motor & Pump P 305	CNEL	97.5	2	646.8	-67.2	5.6	-15.5	-1.9		0.0	0.0	18.5	0.0	6.7	25.2
Motor & Pump P 306	CNEL	112.6	4	646.2	-67.2	5.5	-21.7	-1.9		0.0	0.2	27.5	0.0	6.7	34.2
Motor & Pump P 307	CNEL	102.1	2	647.6	-67.2	5.6	-18.9	-1.8	-0.23	0.0	0.0	19.5	0.0	6.7	26.2
Motor & Pump P 309	CNEL	97.5	2	646.7	-67.2	5.6	-22.8	-2.0		0.0	0.0	11.0	0.0	6.7	17.7
Motor & Pump P 312	CNEL	101.5	2	649.7	-67.2	5.6	-21.1	-1.9	-0.53	0.0	0.0	16.4	0.0	6.7	23.1
Motor & Pump P 313	CNEL	101.5	2	649.9	-67.2	5.6	-21.1	-1.9	-0.53	0.0	0.0	16.4	0.0	6.7	23.0
Motor & Pump P 315	CNEL	102.9	2	650.9	-67.3	5.6	-11.5	-2.0	-0.53	0.0	0.0	27.2	0.0	6.7	33.8
Motor & Pump P 316	CNEL	102.9	2	651.2	-67.3	5.6	-11.5	-2.0	-0.53	0.0	0.0	27.2	0.0	6.7	33.8
Motor & Pump P 317	CNEL	102.9	2	651.4	-67.3	5.6	-11.5	-2.0	-0.53	0.0	0.0	27.2	0.0	6.7	33.9
Motor & Pump P 318	CNEL	100.2	1	650.2	-67.3	5.6	-22.1	-2.0	-0.53	0.0	0.1	14.2	0.0	6.7	20.8
Motor & Pump P 319	CNEL	100.2	1	650.0	-67.3	5.6	-22.1	-2.0	-0.53	0.0	0.0	14.1	0.0	6.7	20.7
Motor & Pump P 327	CNEL	111.2	3	646.5	-67.2	5.6	-24.1	-3.4		0.0	0.8	22.9	0.0	6.7	29.6
Motor & Pump P 328	CNEL	109.9	5	646.5	-67.2	5.5	-22.5	-2.0		0.0	0.0	23.8	0.0	6.7	30.4
Motor & Pump P 329	CNEL	110.2	5	646.3	-67.2	5.5	-22.9	-2.1		0.0	0.0	23.5	0.0	6.7	30.1
Motor & Pump P 451	CNEL	93.7		622.1	-66.9	5.5	-20.5	-2.3		0.0	0.2	9.6	0.0	6.7	16.3
Motor & Pump P 453	CNEL	93.7		621.5	-66.9	5.5	-13.1	-2.5		0.0	0.0	16.7	0.0	6.7	23.4
Motor & Pump P 454	CNEL	93.7		623.5	-66.9	5.5	-20.7	-2.3		0.0	0.2	9.4	0.0	6.7	16.1
Motor & Pump P 457	CNEL	93.7		621.9	-66.9	5.5	-13.1	-2.5		0.0	0.0	16.7	0.0	6.7	23.4
Motor & Pump P 458	CNEL	93.7		620.9	-66.9	5.5	-20.5	-2.3		0.0	0.2	9.6	0.0	6.7	16.3
Motor & Pump P 459	CNEL	93.7		623.3	-66.9	5.5	-20.7	-2.3		0.0	0.0	9.2	0.0	6.7	15.9
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		603.2	-66.6	5.5	-24.7	-3.8	-0.24	0.0	0.0	6.4	0.0	6.7	13.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		603.0	-66.6	5.5	-24.7	-3.8	-0.23	0.0	3.7	10.1	0.0	6.7	16.7
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		590.2	-66.4	5.5	-24.5	-3.5	-0.21	0.0	0.0	6.3	0.0	6.7	12.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		590.1	-66.4	5.5	-23.2	-2.7	-0.18	0.0	0.0	8.4	0.0	6.7	15.1
Motor & Pump P 1601 A	CNEL	96.3	2	575.1	-66.2	5.4	-20.4	-2.2		0.0	0.0	13.0	0.0	6.7	19.7
Motor & Pump P 1601 B	CNEL	96.3	2	573.6	-66.2	5.4	-20.5	-2.2		0.0	0.0	12.9	0.0	6.7	19.6
Motor & Pump P 1602 A	CNEL	96.3	2	572.5	-66.1	5.4	-20.5	-2.2		0.0	0.0	12.8	0.0	6.7	19.5
Motor & Pump P 1602 B	CNEL	96.5	2	571.0	-66.1	5.4	-20.6	-2.2		0.0	0.0	13.0	0.0	6.7	19.6
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	593.9	-66.5	5.6	-19.7	-2.2	-0.17	0.0	0.0	13.6	0.0	6.7	20.3
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	593.3	-66.5	5.5	-16.7	-2.2	-0.17	0.0	0.0	16.6	0.0	6.7	23.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	593.0	-66.5	5.6	-13.9	-2.4	-0.17	0.0	0.0	19.3	0.0	6.7	26.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	602.2	-66.6	5.5	-16.4	-2.3	-0.30	0.0	0.6	17.2	0.0	6.7	23.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	602.0	-66.6	5.5	-16.4	-2.3	-0.30	0.0	0.6	17.3	0.0	6.7	24.0
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	585.6	-66.3	5.6	-14.0	-2.3	-0.02	0.0	0.0	19.1	0.0	6.7	25.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	587.8	-66.4	5.6	-14.0	-2.3	-0.07	0.0	0.0	19.1	0.0	6.7	25.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	591.9	-66.4	5.5	-13.9	-2.3	-0.16	0.0	0.0	19.0	0.0	6.7	25.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	590.1	-66.4	5.6	-13.9	-2.3	-0.12	0.0	0.0	19.0	0.0	6.7	25.7
P602 100 HP	CNEL	94.1		477.4	-64.6	5.3	-15.4	-1.3		0.0	2.4	20.6	0.0	6.7	27.2
P603 60 HP	CNEL	95.0		482.0	-64.7	5.4	-16.9	-2.0		0.0	2.5	19.5	0.0	6.7	26.1
P605 40 HP	CNEL	95.0		480.8	-64.6	5.4	-17.0	-2.0		0.0	2.6	19.5	0.0	6.7	26.1
P607 15 HP	CNEL	90.5		472.9	-64.5	5.4	-16.3	-1.5		0.0	0.1	13.8	0.0	6.7	20.5
P608 15 HP	CNEL	90.5		470.6	-64.4	5.4	-16.4	-1.4		0.0	0.1	13.7	0.0	6.7	20.4
P611 15 HP	CNEL	90.5		475.1	-64.5	5.4	-16.2	-1.5		0.0	0.1	13.9	0.0	6.7	20.6
P614/615 20 HP	CNEL	93.0		474.1	-64.5	5.1	-15.9	-1.5		0.0	0.1	16.4	0.0	6.7	23.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	617.3	-66.8	5.5	-12.1	-1.1	-0.07	0.0	0.0	60.2	-38.6	0.0	21.6
Scanner Blower C-084A/B	CNEL	95.5		538.6	-65.6	5.3	-20.4	-1.5		0.0	0.0	13.3	0.0	6.7	20.0
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	556.0	-65.9	5.3	-16.0	-0.3		0.0	0.0	-5.4	0.0	6.7	1.3
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	558.4	-65.9	5.3	-17.3	-0.3		0.0	0.0	-8.4	0.0	6.7	-1.7
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	557.0	-65.9	5.0	-13.2	-0.4		0.0	0.0	-5.0	0.0	6.7	1.7
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	557.0	-65.9	5.3	-16.8	-0.3		0.0	0.0	-6.2	0.0	6.7	0.5
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	559.1	-65.9	5.3	-18.4	-0.4		0.0	0.0	-7.6	0.0	6.7	-0.9
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	536.6	-65.6	5.2	-11.4	-0.7		0.0	0.0	7.6	0.0	6.7	14.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	535.9	-65.6	5.2	-10.6	-0.7		0.0	0.0	7.6	0.0	6.7	14.3
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	539.9	-65.6	5.2	-7.2	-0.7		0.0	0.0	21.9	0.0	6.7	28.5
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	535.4	-65.6	5.2	-10.5	-0.7		0.0	0.0	10.3	0.0	6.7	16.9
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	540.2	-65.6	4.8	-5.1	-0.8		0.0	0.0	18.7	0.0	6.7	25.4
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	540.9	-65.7	5.2	-17.4	-0.5		0.0	0.0	11.8	0.0	6.7	18.5
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	535.9	-65.6	5.2	-17.1	-0.5		0.0	0.0	3.5	0.0	6.7	10.2
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	524.0	-65.4	5.3	-9.5	-1.3		0.0	0.3	28.7	0.0	6.7	35.3
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	529.0	-65.5	5.3	-10.8	-1.3		0.0	0.0	32.5	0.0	6.7	39.1
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	529.3	-65.5	5.0	-8.2	-1.4		0.0	0.5	31.7	0.0	6.7	38.4
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	530.0	-65.5	5.3	-21.6	-1.5		0.0	3.5	24.9	0.0	6.7	31.6
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	534.7	-65.6	5.3	-20.1	-1.4		0.0	0.1	11.9	0.0	6.7	18.5
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	535.5	-65.6	5.3	-21.9	-1.6		0.0	0.1	10.0	0.0	6.7	16.7
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	549.9	-65.8	4.8	-5.3	-0.7		0.0	0.0	11.0	0.0	6.7	17.7
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	544.7	-65.7	5.2	-7.4	-0.5		0.0	1.3	4.8	0.0	6.7	11.5
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	548.9	-65.8	5.2	-8.1	-0.6		0.0	0.0	9.7	0.0	6.7	16.4
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	553.6	-65.9	5.2	-18.6	-0.4		0.0	0.0	-6.3	0.0	6.7	0.4
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	546.0	-65.7	5.2	-13.6	-0.5		0.0	0.0	-0.8	0.0	6.7	5.9
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	550.7	-65.8	5.2	-16.9	-0.5		0.0	0.0	1.1	0.0	6.7	7.7
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	555.0	-65.9	5.2	-17.0	-0.5		0.0	0.0	-4.7	0.0	6.7	2.0
Tank Farm Pump 1	CNEL	99.0	3	338.7	-61.6	5.3	-20.8	-1.4		0.0	0.0	20.4	0.0	6.7	27.1
Tank Farm Pump 2	CNEL	99.0	3	318.5	-61.1	5.2	-23.9	-1.8		0.0	0.1	17.5	0.0	6.7	24.2
Tank Farm Pump 3	CNEL	99.0	3	312.9	-60.9	5.2	-24.1	-1.9		0.0	0.4	17.6	0.0	6.7	24.3
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	762.1	-68.6	5.1	-11.0	-3.3	-0.03	0.0	0.0	34.6	-16.8	0.0	17.8
Vaporizer Blower 1	CNEL	88.7		539.3	-65.6	5.5	-12.0	-1.6		0.0	0.0	15.0	0.0	6.7	21.7
Vaporizer Blower 2	CNEL	88.7		539.4	-65.6	5.5	-11.9	-1.6		0.0	2.2	17.3	0.0	6.7	23.9
Vaporizer Inlet Silencer	CNEL	73.7		537.8	-65.6	5.1	-7.2	-0.8		0.0	0.9	6.1	0.0	6.7	12.8
Vaporizer Motor 1	CNEL	83.6		539.8	-65.6	5.5	-12.6	-1.9		0.0	0.0	9.0	0.0	6.7	15.7
Vaporizer Motor 2	CNEL	83.6		539.9	-65.6	5.5	-16.1	-1.8		0.0	4.2	9.9	0.0	6.7	16.5
Water Treatment Pumps P-056A&B	CNEL	93.0		555.8	-65.9	5.6	-18.0	-1.7		0.0	0.0	13.0	0.0	6.7	19.6
XF-1502 Splitter Area 1	CNEL	104.5		590.6	-66.4	4.2	-9.8	-2.2	0.00	-3.2	0.0	27.1	0.0	6.7	33.7
XF-1502 Splitter Area 2	CNEL	104.5		591.1	-66.4	4.2	-12.3	-2.0		-3.0	0.0	24.9	0.0	6.7	31.6
XF-1504 Splitter Area 1	CNEL	104.5		586.2	-66.4	4.2	-9.9	-2.2	-0.01	-3.2	0.0	27.1	0.0	6.7	33.7
XF-1504 Splitter Area 2	CNEL	104.5		586.7	-66.4	4.2	-12.4	-2.0		-3.0	0.0	24.9	0.0	6.7	31.6
XF 304, XF 321	CNEL	110.5	56	653.3	-67.3	4.3	-12.2	-1.0		-1.6	0.0	32.8	0.0	6.7	39.5
XF 313, XF 314	CNEL	113.0	18	651.6	-67.3	4.6	-15.8	-1.4		-2.4	0.0	30.7	0.0	6.7	37.4
XF 335-1, XF 335-2	CNEL	113.4	54	652.3	-67.3	4.3	-13.3	-1.3	0.00	-1.7	0.1	34.3	0.0	6.7	41.0
XF 503	CNEL	113.0	21	641.0	-67.1	4.7	-13.1	-1.7	-0.43	-2.9	0.0	32.5	0.0	6.7	39.1
XF - 1601	CNEL	96.6		573.3	-66.2	3.3	-7.0	-1.2		-1.6	0.0	23.9	0.0	6.7	30.6
XF - 1602	CNEL	96.6		567.4	-66.1	3.2	-7.1	-1.1		-1.6	0.0	24.0	0.0	6.7	30.6
XF Module 1510	CNEL	108.3		597.3	-66.5	4.3	-19.7	-2.1	-0.04	-2.6	0.0	21.7	0.0	6.7	28.4
XF Module 1519	CNEL	109.0		596.6	-66.5	4.3	-10.1	-2.2	-0.23	-3.2	0.0	31.1	0.0	6.7	37.8
xxxx xxxx xxxx xxxx	CNEL		606								1.1				68.5
xxxx xxxx xxxx xxxx	CNEL		606								1.9				66.6
xxxx xxxx xxxx xxxx	CNEL		917								7.9				38.9
xxxx xxxx xxxx xxxx	CNEL		917								8.0				39.0
xxxx xxxx xxxx xxxx	CNEL		608								14.2				32.7
xxxx xxxx xxxx xxxx	CNEL		608								14.2				32.7
xxxx xxxx xxxx xxxx	CNEL		1172								7.8				49.8
xxxx xxxx xxxx xxxx	CNEL		520								6.8				58.8
xxxx xxxx xxxx xxxx	CNEL		572								7.0				38.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Receiver RLCTP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.4 dB(A) Ld 7-19 dB(A) Leq,N 58.7 dB(A) Le 19-22 dB(A) CNEL 67.5 dB(A) Lmax day hr dB(A) Ld 7															
2.8-Open Intake	CNEL	90.5	8	509.6	-65.1	4.0	-5.5	-0.1		0.0	0.0	26.7	0.0	6.7	33.4
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	572.3	-66.1	5.3	-14.4	-1.6	-0.03	0.0	0.0	32.1	-10.8	0.0	21.3
Air Compressor C 1	CNEL	110.0	5	658.3	-67.4	5.1	-19.8	-1.3		0.0	4.5	31.2	0.0	6.7	37.9
Air Compressor Pump, Motor Fan CMXF -055	CNEL	100.3		517.5	-65.3	5.2	-19.3	-2.5		0.0	0.0	18.5	0.0	6.7	25.1
Asphalt Production	CNEL	113.8	1206	453.9	-64.1	4.6	-18.0	-1.6		0.0	0.0	34.6	0.0	6.7	41.3
BFW Pumps P-073A&B	CNEL	95.8		527.7	-65.4	5.2	-16.0	-1.7		0.0	0.0	17.8	0.0	6.7	24.5
Blower F 401	CNEL	113.0		634.1	-67.0	4.7	-15.4	-0.8		0.0	0.0	34.5	0.0	6.7	41.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	392.4	-62.9	4.7	-16.8	-0.8		0.0	0.0	22.9	0.0	6.7	29.6
Brine Transfer P-085	CNEL	96.2		541.1	-65.7	5.3	-17.9	-1.8		0.0	0.0	16.2	0.0	6.7	22.9
Burner H301 North	CNEL	96.1	10	713.4	-68.1	5.1	-24.3	-3.4	-0.17	0.0	0.0	8.3	0.0	6.7	15.0
Burner H301 South	CNEL	95.9	10	712.6	-68.0	5.1	-17.5	-2.2	-0.42	0.0	0.1	16.0	0.0	6.7	22.7
Burner H302 North	CNEL	97.0	13	711.1	-68.0	5.1	-24.1	-3.2	-0.40	0.0	0.0	9.4	0.0	6.7	16.0
Burner H302 South	CNEL	97.0	13	710.6	-68.0	5.1	-14.0	-2.2	-0.96	0.0	0.0	19.9	0.0	6.7	26.6
Burner H303 North	CNEL	97.0	13	705.3	-68.0	5.1	-24.3	-3.3		0.0	0.0	9.6	0.0	6.7	16.3
Burner H303 South	CNEL	97.0	13	704.9	-68.0	5.1	-17.4	-2.2	-0.74	0.0	0.0	16.9	0.0	6.7	23.6
Burner H304 North	CNEL	97.0	13	706.7	-68.0	5.1	-24.2	-3.3	-0.10	0.0	0.0	9.5	0.0	6.7	16.2
Burner H304 South	CNEL	97.0	13	706.2	-68.0	5.1	-21.4	-2.7		0.0	0.0	13.1	0.0	6.7	19.8
Burner H305 North	CNEL	96.3	11	707.2	-68.0	5.1	-24.2	-3.3	-0.41	0.0	0.0	8.6	0.0	6.7	15.3
Burner H305 South	CNEL	96.3	11	706.6	-68.0	5.1	-16.2	-2.2	-0.88	0.0	0.0	17.2	0.0	6.7	23.9
Burner H306 North	CNEL	95.0	8	707.5	-68.0	5.1	-24.1	-3.3	-0.42	0.0	0.0	7.4	0.0	6.7	14.1
Burner H306 South	CNEL	95.1	8	706.9	-68.0	5.1	-18.1	-2.2	-0.68	0.0	0.1	14.4	0.0	6.7	21.1
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	666.2	-67.5	4.9	-20.3	-1.3	-0.67	-0.5	0.0	19.3	0.0	6.7	26.0
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	662.7	-67.4	4.9	-13.6	-1.5	-0.73	0.0	0.0	22.2	0.0	6.7	28.9
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	674.5	-67.6	4.9	-22.0	-1.6	-0.71	-1.9	0.0	17.5	0.0	6.7	24.2
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	675.6	-67.6	4.9	-17.6	-1.4	-0.72	2.5	0.0	30.8	0.0	6.7	37.4
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	664.4	-67.4	4.8	-19.5	-1.3	-0.10	2.8	0.5	23.5	0.0	6.7	30.1
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	685.9	-67.7	4.9	-22.5	-2.1	-0.57	-7.8	0.0	4.7	0.0	6.7	11.4
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	593.7	-66.5	4.9	-19.4	-1.4		-0.3	0.0	15.1	0.0	6.7	21.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	606.1	-66.6	4.9	-20.7	-1.6		-7.8	0.0	6.0	0.0	6.7	12.6
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	569.0	-66.1	4.6	-11.3	-1.3		-0.2	0.0	26.3	0.0	6.7	32.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	586.9	-66.4	4.7	-21.3	-1.7		-7.8	2.5	10.7	0.0	6.7	17.4
Cooling Tower M 512	CNEL	95.7		599.3	-66.5	5.2	-14.7	-2.2		0.0	0.0	17.6	0.0	6.7	24.2
Cooling Tower M 513	CNEL	95.7		600.7	-66.6	5.2	-14.6	-2.2		0.0	0.0	17.6	0.0	6.7	24.3
Cooling Tower M 514	CNEL	95.7		597.8	-66.5	5.2	-14.7	-2.2		0.0	0.0	17.6	0.0	6.7	24.2
Crude Plant Operation 80 dB/m^2 at 1 m	CNEL	113.7	4712	369.5	-62.3	5.0	-20.2	-1.5		0.0	0.1	34.9	0.0	6.7	41.5
Crude Plant Operation SPL 80 dB/m^2 at 3 m	CNEL	113.7	4716	369.5	-62.3	4.6	-19.4	-1.4		0.0	0.1	35.2	0.0	6.7	41.8
CT Y-600-CT Y-600 North	CNEL	96.4	51	432.0	-63.7	4.4	-14.6	-0.9		0.0	0.0	24.5	0.0	6.7	31.2
CT Y-600-CT Y-600 South	CNEL	96.4	52	436.0	-63.8	4.4	-22.0	-1.5		0.0	0.0	16.6	0.0	6.7	23.3
Deaerator Skid P-058A&B	CNEL	96.2		525.3	-65.4	4.3	-13.9	-1.8		0.0	0.0	19.4	0.0	6.7	26.1
Exhaust Stack	CNEL	100.6		546.4	-65.7	2.4	-5.9	-0.8		0.0	0.0	30.6	0.0	6.7	37.3
F.G. After Cooler XF-083ABC	CNEL	100.2		502.0	-65.0	4.6	-17.5	-0.8		0.0	0.0	21.6	0.0	6.7	28.2
Fan Y-600	CNEL	107.5		433.8	-63.7	3.3	-18.9	-0.9		0.0	0.0	27.3	0.0	6.7	34.0
FG Compressor Enclosure-FG Enclosure Roof	CNEL	82.4	89	492.0	-64.8	4.3	-9.9	-0.2		0.0	0.0	11.7	0.0	6.7	18.4
FG Compressor Enclosure-FG Enclosure East	CNEL	77.7	33	485.6	-64.7	4.7	-7.7	-0.2		0.0	0.0	12.9	0.0	6.7	19.5
FG Compressor Enclosure-FG Enclosure East Louver 1	CNEL	71.1	0	485.7	-64.7	5.0	-16.6	-1.7		0.0	0.0	-3.9	0.0	6.7	2.8
FG Compressor Enclosure-FG Enclosure North	CNEL	80.7	62	491.9	-64.8	4.7	-4.7	-0.2		0.0	0.0	18.7	0.0	6.7	25.4
FG Compressor Enclosure-FG Enclosure South	CNEL	72.0	62	492.1	-64.8	4.7	-16.0	-0.2		0.0	0.0	-1.4	0.0	6.7	5.3
FG Compressor Enclosure-FG Enclosure West	CNEL	77.8	33	498.5	-64.9	4.7	-13.7	-0.2		0.0	0.0	6.7	0.0	6.7	13.4
FG Compressor Enclosure-FG Enclosure West Louver 3	CNEL	71.1	0	498.5	-64.9	5.1	-22.4	-2.4		0.0	0.0	-10.6	0.0	6.7	-3.9
Fin Fan XF 616 - Above	CNEL	96.0	75	406.5	-63.2	2.3	-7.5	-0.7		-10.5	0.0	16.5	0.0	6.7	23.2
Fin Fan XF 616 - Below	CNEL	108.0	75	406.5	-63.2	2.4	-8.5	-0.8		-8.6	0.0	29.2	0.0	6.7	35.9
Fin Fan XF 617 - Above	CNEL	93.0	21	398.9	-63.0	2.3	-7.0	-0.7		-10.7	0.0	13.9	0.0	6.7	20.6
Fin Fan XF 617 - Below	CNEL	104.0	21	398.9	-63.0	2.4	-8.1	-0.8		-8.4	0.0	26.0	0.0	6.7	32.7
Heater # 5-Heater	CNEL	91.1	13	388.1	-62.8	4.8	-22.6	-1.1		0.0	1.4	13.8	0.0	6.7	20.5
Heater # 5-Heater	CNEL	91.1	13	392.8	-62.9	4.8	-22.5	-1.1		0.0	2.0	14.3	0.0	6.7	20.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	397.6	-63.0	4.8	-22.9	-1.2		0.0	0.5	12.3	0.0	6.7	19.0
Heater H 601	CNEL	89.1	13	406.0	-63.2	4.7	-18.2	-0.7		0.0	0.1	11.9	0.0	6.7	18.5
Hydro Heater H-402	CNEL	98.1		626.2	-66.9	4.9	-20.9	-1.3		0.0	0.0	13.8	0.0	6.7	20.5
ID Fan	CNEL	110.3		723.5	-68.2	4.8	-23.1	-1.6		0.0	0.0	22.2	0.0	6.7	28.9
ID Fan 200 HP Motor	CNEL	104.4		723.2	-68.2	5.3	-23.9	-3.9		0.0	3.2	16.9	0.0	6.7	23.6
Incinirator Compressor & Motor	CNEL	92.5		339.4	-61.6	4.9	-22.6	-1.0		0.0	0.0	12.2	0.0	6.7	18.8
Incinirator Fin Fan	CNEL	94.8		340.4	-61.6	4.9	-21.6	-0.8		0.0	0.0	15.7	0.0	6.7	22.4
Lub Oil Cooler XF-061	CNEL	100.5		519.9	-65.3	4.9	-12.7	-0.8		0.0	0.0	26.6	0.0	6.7	33.3
Misc pumps motors	CNEL	100.2	332	477.7	-64.6	5.0	-21.0	-2.1		0.0	0.0	17.5	0.0	6.7	24.2
Motor & Pump P 56A/B	CNEL	93.7		635.9	-67.1	5.3	-19.0	-2.4	-0.14	0.0	0.0	10.4	0.0	6.7	17.0
Motor & Pump P 120/121	CNEL	96.2	2	655.4	-67.3	5.2	-15.2	-1.9	-0.54	0.0	0.0	16.5	0.0	6.7	23.1
Motor & Pump P 211/212	CNEL	93.7		652.7	-67.3	5.3	-19.0	-2.4	-0.57	0.0	0.0	9.7	0.0	6.7	16.3
Motor & Pump P 215/214	CNEL	94.6		653.5	-67.3	5.3	-14.2	-2.5	-0.58	0.0	0.0	15.4	0.0	6.7	22.1
Motor & Pump P 216	CNEL	98.3		659.4	-67.4	5.3	-18.7	-2.4	-0.72	0.0	0.0	14.4	0.0	6.7	21.1
Motor & Pump P 217/218	CNEL	93.7		653.1	-67.3	5.4	-16.8	-2.5	-0.58	0.0	0.0	12.0	0.0	6.7	18.6
Motor & Pump P 300	CNEL	97.1	2	667.5	-67.5	5.3	-14.9	-2.0	-0.54	0.0	0.0	17.5	0.0	6.7	24.1
Motor & Pump P 301	CNEL	102.1	2	667.2	-67.5	5.2	-14.9	-2.0	-0.54	0.0	0.0	22.5	0.0	6.7	29.2
Motor & Pump P 302	CNEL	97.1	2	667.8	-67.5	5.3	-14.9	-2.0	-0.54	0.0	0.0	17.4	0.0	6.7	24.1
Motor & Pump P 303	CNEL	97.1	2	668.2	-67.5	5.2	-14.9	-2.0	-0.54	0.0	0.0	17.5	0.0	6.7	24.1
Motor & Pump P 305	CNEL	97.5	2	668.5	-67.5	5.2	-14.9	-2.0	-0.54	0.0	0.0	17.9	0.0	6.7	24.5
Motor & Pump P 306	CNEL	112.6	4	670.2	-67.5	5.1	-21.2	-2.0		0.0	0.2	27.2	0.0	6.7	33.9
Motor & Pump P 307	CNEL	102.1	2	666.4	-67.5	5.2	-22.3	-2.2	-0.53	0.0	0.0	14.9	0.0	6.7	21.5
Motor & Pump P 309	CNEL	97.5	2	668.8	-67.5	5.2	-19.8	-2.0	-0.53	0.0	0.0	12.9	0.0	6.7	19.6
Motor & Pump P 312	CNEL	101.5	2	662.9	-67.4	5.3	-20.3	-2.0	-0.53	0.0	0.0	16.6	0.0	6.7	23.3
Motor & Pump P 313	CNEL	101.5	2	662.7	-67.4	5.3	-19.9	-2.0	-0.53	0.0	0.0	17.0	0.0	6.7	23.7
Motor & Pump P 315	CNEL	102.9	2	662.1	-67.4	5.3	-17.1	-1.9	-0.26	0.0	0.0	21.5	0.0	6.7	28.2
Motor & Pump P 316	CNEL	102.9	2	661.8	-67.4	5.3	-17.7	-1.9	-0.23	0.0	0.0	20.9	0.0	6.7	27.6
Motor & Pump P 317	CNEL	102.9	2	661.5	-67.4	5.2	-17.7	-1.9	-0.23	0.0	0.0	20.9	0.0	6.7	27.6
Motor & Pump P 318	CNEL	100.2	1	661.8	-67.4	5.3	-19.9	-2.2		0.0	0.0	16.0	0.0	6.7	22.7
Motor & Pump P 319	CNEL	100.2	1	662.0	-67.4	5.3	-20.3	-2.2		0.0	0.0	15.7	0.0	6.7	22.3
Motor & Pump P 327	CNEL	111.2	3	672.5	-67.5	5.3	-23.4	-3.3		0.0	0.2	22.6	0.0	6.7	29.3
Motor & Pump P 328	CNEL	109.9	5	669.0	-67.5	5.2	-20.8	-2.0	-0.50	0.0	0.0	24.3	0.0	6.7	31.0
Motor & Pump P 329	CNEL	110.2	5	669.5	-67.5	5.2	-22.0	-2.2	-0.07	0.0	0.0	23.7	0.0	6.7	30.3
Motor & Pump P 451	CNEL	93.7		624.4	-66.9	5.3	-14.7	-2.4		0.0	0.0	14.9	0.0	6.7	21.6
Motor & Pump P 453	CNEL	93.7		620.7	-66.8	5.3	-23.0	-2.9		0.0	0.0	6.2	0.0	6.7	12.9
Motor & Pump P 454	CNEL	93.7		625.9	-66.9	5.3	-14.7	-2.4		0.0	0.0	14.9	0.0	6.7	21.6
Motor & Pump P 457	CNEL	93.7		620.6	-66.8	5.3	-23.2	-2.9		0.0	0.0	5.9	0.0	6.7	12.6
Motor & Pump P 458	CNEL	93.7		623.2	-66.9	5.3	-14.7	-2.4		0.0	0.0	14.9	0.0	6.7	21.6
Motor & Pump P 459	CNEL	93.7		626.0	-66.9	5.3	-14.7	-2.4		0.0	0.0	14.9	0.0	6.7	21.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		613.3	-66.7	5.3	-20.9	-2.9		0.0	0.0	10.9	0.0	6.7	17.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		613.5	-66.7	5.3	-21.2	-3.0		0.0	0.0	10.6	0.0	6.7	17.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		609.9	-66.7	5.3	-17.8	-2.3	-0.18	0.0	0.0	13.7	0.0	6.7	20.4
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		610.1	-66.7	5.3	-22.1	-3.0	-0.21	0.0	2.5	11.2	0.0	6.7	17.9
Motor & Pump P 1601 A	CNEL	96.3	2	585.3	-66.3	5.2	-18.7	-2.3		0.0	0.0	14.2	0.0	6.7	20.8
Motor & Pump P 1601 B	CNEL	96.3	2	583.8	-66.3	5.2	-18.8	-2.3		0.0	0.0	14.1	0.0	6.7	20.8
Motor & Pump P 1602 A	CNEL	96.3	2	582.6	-66.3	5.2	-18.8	-2.3		0.0	0.0	14.1	0.0	6.7	20.8
Motor & Pump P 1602 B	CNEL	96.5	2	581.1	-66.3	5.2	-18.9	-2.3		0.0	0.0	14.2	0.0	6.7	20.9
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	604.1	-66.6	5.3	-18.2	-2.3	-0.17	0.0	0.0	14.6	0.0	6.7	21.3
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	604.8	-66.6	5.3	-18.3	-2.3	-0.17	0.0	0.0	14.5	0.0	6.7	21.1
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	605.2	-66.6	5.3	-21.7	-3.0	-0.25	0.0	0.0	10.4	0.0	6.7	17.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	613.1	-66.7	5.3	-17.9	-2.3	-0.30	0.0	0.0	14.7	0.0	6.7	21.4
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	613.4	-66.7	5.3	-18.0	-2.3	-0.30	0.0	0.0	14.6	0.0	6.7	21.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	599.2	-66.5	5.3	-19.1	-2.3	-0.02	0.0	0.0	13.6	0.0	6.7	20.3
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	601.5	-66.6	5.3	-19.0	-2.3	-0.07	0.0	0.0	13.6	0.0	6.7	20.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	605.5	-66.6	5.3	-18.8	-2.3	-0.16	0.0	0.0	13.7	0.0	6.7	20.3
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	603.7	-66.6	5.3	-18.9	-2.3	-0.12	0.0	0.0	13.7	0.0	6.7	20.3
P602 100 HP	CNEL	94.1		412.8	-63.3	4.9	-17.2	-1.2		0.0	2.4	19.7	0.0	6.7	26.4
P603 60 HP	CNEL	95.0		418.2	-63.4	5.1	-18.7	-1.8		0.0	2.4	18.7	0.0	6.7	25.3
P605 40 HP	CNEL	95.0		416.8	-63.4	5.1	-18.7	-1.8		0.0	2.4	18.7	0.0	6.7	25.3
P607 15 HP	CNEL	90.5		407.4	-63.2	5.0	-17.9	-1.3		0.0	2.5	15.6	0.0	6.7	22.2
P608 15 HP	CNEL	90.5		404.7	-63.1	5.0	-18.0	-1.3		0.0	2.5	15.6	0.0	6.7	22.2
P611 15 HP	CNEL	90.5		410.1	-63.2	5.0	-17.8	-1.3		0.0	2.4	15.6	0.0	6.7	22.3
P614/615 20 HP	CNEL	93.0		412.2	-63.3	4.7	-17.4	-1.3		0.0	2.5	18.2	0.0	6.7	24.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	Ls	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB(A)	dB	dB	dB(A)
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	587.9	-66.4	5.2	-11.9	-1.0	-0.08	0.0	0.0	60.6	-38.6	0.0	22.0
Scanner Blower C-084A/B	CNEL	95.5		522.5	-65.4	5.0	-17.1	-1.4		0.0	0.0	16.6	0.0	6.7	23.3
Solar Turbine T70 2nd Boiler-2nd Boiler North	CNEL	68.5	11	542.2	-65.7	4.8	-16.1	-0.3		0.0	0.0	-5.7	0.0	6.7	1.0
Solar Turbine T70 2nd Boiler-2nd Boiler NW	CNEL	66.8	7	544.5	-65.7	4.8	-16.2	-0.3		0.0	0.0	-7.6	0.0	6.7	-0.9
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	CNEL	69.5	13	542.7	-65.7	4.5	-13.8	-0.3		0.0	0.0	-5.8	0.0	6.7	0.9
Solar Turbine T70 2nd Boiler-2nd Boiler South	CNEL	68.5	11	542.2	-65.7	4.8	-17.2	-0.3		0.0	0.0	-6.9	0.0	6.7	-0.2
Solar Turbine T70 2nd Boiler-2nd Boiler SW	CNEL	68.8	7	544.5	-65.7	4.7	-17.7	-0.4		0.0	0.0	-7.3	0.0	6.7	-0.6
Solar Turbine T70 Boiler-Boiler East 1	CNEL	77.1	4	520.9	-65.3	4.7	-15.4	-0.4		0.0	0.0	3.6	0.0	6.7	10.3
Solar Turbine T70 Boiler-Boiler East 2	CNEL	76.2	3	520.9	-65.3	4.7	-14.9	-0.4		0.0	0.0	3.3	0.0	6.7	10.0
Solar Turbine T70 Boiler-Boiler North 1	CNEL	87.1	42	525.3	-65.4	4.7	-13.5	-0.4		0.0	0.0	15.5	0.0	6.7	22.1
Solar Turbine T70 Boiler-Boiler North 2	CNEL	78.7	6	520.2	-65.3	4.7	-16.6	-0.4		0.0	0.0	4.0	0.0	6.7	10.7
Solar Turbine T70 Boiler-Boiler Roof	CNEL	85.4	28	524.9	-65.4	4.3	-12.0	-0.5		0.0	0.0	11.9	0.0	6.7	18.6
Solar Turbine T70 Boiler-Boiler South	CNEL	87.1	42	525.3	-65.4	4.7	-18.6	-0.4		0.0	0.0	10.4	0.0	6.7	17.1
Solar Turbine T70 Boiler-Boiler South 2	CNEL	78.5	6	520.2	-65.3	4.7	-17.7	-0.4		0.0	0.0	2.7	0.0	6.7	9.3
Solar Turbine T70 Enclosure-T70 Encl. East Wall	CNEL	96.3	12	508.0	-65.1	4.9	-17.7	-1.1		0.0	0.0	20.2	0.0	6.7	26.9
Solar Turbine T70 Enclosure-T70 Encl. North Wall	CNEL	101.7	42	513.9	-65.2	4.9	-18.7	-1.2		0.0	0.0	24.5	0.0	6.7	31.2
Solar Turbine T70 Enclosure-T70 Encl. Roof	CNEL	101.3	39	514.0	-65.2	4.6	-15.9	-1.1		0.0	0.0	23.8	0.0	6.7	30.5
Solar Turbine T70 Enclosure-T70 Encl. South Wall	CNEL	101.7	42	513.9	-65.2	4.9	-20.7	-1.4		0.0	0.0	22.3	0.0	6.7	28.9
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	CNEL	90.5	3	519.7	-65.3	4.9	-21.5	-1.6		0.0	0.1	10.1	0.0	6.7	16.7
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	CNEL	90.6	3	519.7	-65.3	4.9	-22.4	-1.7		0.0	0.1	9.2	0.0	6.7	15.9
Solar Turbine T70 SCR-SCR Unit Roof	CNEL	78.0	59	535.2	-65.6	4.2	-9.7	-0.5		0.0	0.0	6.5	0.0	6.7	13.2
Solar Turbine T70 SCR-SCR Unit NE	CNEL	68.9	11	530.5	-65.5	4.7	-11.1	-0.3		0.0	0.0	-0.3	0.0	6.7	6.4
Solar Turbine T70 SCR-SCR Unit North	CNEL	75.9	36	535.1	-65.6	4.7	-15.1	-0.4		0.0	0.0	2.6	0.0	6.7	9.2
Solar Turbine T70 SCR-SCR Unit NW	CNEL	70.4	10	539.8	-65.6	4.7	-17.4	-0.4		0.0	0.0	-5.4	0.0	6.7	1.3
Solar Turbine T70 SCR-SCR Unit SE	CNEL	70.8	11	530.5	-65.5	4.6	-12.5	-0.4		0.0	0.0	0.1	0.0	6.7	6.8
Solar Turbine T70 SCR-SCR Unit South	CNEL	76.0	37	535.2	-65.6	4.6	-18.2	-0.4		0.0	0.0	-0.5	0.0	6.7	6.2
Solar Turbine T70 SCR-SCR Unit SW	CNEL	70.4	10	539.9	-65.6	4.6	-18.4	-0.4		0.0	0.0	-6.5	0.0	6.7	0.2
Tank Farm Pump 1	CNEL	99.0	3	335.0	-61.5	5.0	-19.7	-1.5		0.0	0.0	21.4	0.0	6.7	28.1
Tank Farm Pump 2	CNEL	99.0	3	313.8	-60.9	5.0	-20.3	-1.4		0.0	0.0	21.3	0.0	6.7	28.0
Tank Farm Pump 3	CNEL	99.0	3	307.9	-60.8	5.0	-20.5	-1.4		0.0	1.0	22.3	0.0	6.7	29.0
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	757.2	-68.6	4.9	-13.0	-2.1	-0.04	0.0	0.0	33.6	-16.8	0.0	16.8
Vaporizer Blower 1	CNEL	88.7		525.1	-65.4	5.2	-16.6	-1.4		0.0	0.0	10.4	0.0	6.7	17.1
Vaporizer Blower 2	CNEL	88.7		525.4	-65.4	5.2	-15.0	-1.4		0.0	0.0	12.0	0.0	6.7	18.6
Vaporizer Inlet Silencer	CNEL	73.7		523.7	-65.4	4.6	-10.9	-0.6		0.0	0.0	1.6	0.0	6.7	8.2
Vaporizer Motor 1	CNEL	83.6		525.6	-65.4	5.2	-17.5	-1.8		0.0	0.0	4.2	0.0	6.7	10.9
Vaporizer Motor 2	CNEL	83.6		525.9	-65.4	5.2	-15.9	-1.8		0.0	0.0	5.8	0.0	6.7	12.4
Water Treatment Pumps P-056A&B	CNEL	93.0		538.2	-65.6	5.3	-14.5	-1.8		0.0	0.0	16.5	0.0	6.7	23.1
XF-1502 Splitter Area 1	CNEL	104.5		603.2	-66.6	4.0	-14.0	-2.1	0.00	-2.9	0.0	23.0	0.0	6.7	29.6
XF-1502 Splitter Area 2	CNEL	104.5		602.7	-66.6	4.0	-10.9	-2.3		-3.2	0.0	25.5	0.0	6.7	32.1
XF-1504 Splitter Area 1	CNEL	104.5		598.8	-66.5	4.0	-14.1	-2.0	-0.01	-2.9	0.0	22.9	0.0	6.7	29.6
XF-1504 Splitter Area 2	CNEL	104.5		598.3	-66.5	4.0	-11.0	-2.2		-3.2	0.0	25.5	0.0	6.7	32.1
XF 304, XF 321	CNEL	110.5	56	673.0	-67.6	3.9	-14.5	-1.0		-1.5	0.0	29.8	0.0	6.7	36.5
XF 313, XF 314	CNEL	113.0	18	679.0	-67.6	4.3	-16.5	-1.5	0.00	-2.4	0.0	29.3	0.0	6.7	35.9
XF 335-1, XF 335-2	CNEL	113.4	54	675.1	-67.6	4.0	-15.8	-1.3	0.00	-1.5	0.0	31.2	0.0	6.7	37.9
XF 503	CNEL	113.0	21	647.9	-67.2	4.4	-10.5	-1.8	-0.43	-3.0	0.0	34.4	0.0	6.7	41.1
XF - 1601	CNEL	96.6		583.1	-66.3	2.9	-7.9	-1.2		-1.6	0.0	22.5	0.0	6.7	29.2
XF - 1602	CNEL	96.6		577.2	-66.2	2.8	-8.0	-1.1		-1.5	0.0	22.6	0.0	6.7	29.2
XF Module 1510	CNEL	108.3		607.9	-66.7	4.1	-11.1	-2.3	-0.23	-3.2	0.0	29.0	0.0	6.7	35.7
XF Module 1519	CNEL	109.0		608.6	-66.7	4.1	-11.1	-2.3	-0.23	-3.2	0.0	29.7	0.0	6.7	36.4
xxxx xxxx xxxx xxxx	CNEL		606								2.5				64.2
xxxx xxxx xxxx xxxx	CNEL		606								2.7				63.7
xxxx xxxx xxxx xxxx	CNEL		917								10.0				44.4
xxxx xxxx xxxx xxxx	CNEL		917								9.9				44.4
xxxx xxxx xxxx xxxx	CNEL		608								1.5				14.8
xxxx xxxx xxxx xxxx	CNEL		608								1.5				14.8
xxxx xxxx xxxx xxxx	CNEL		1172								5.8				55.5
xxxx xxxx xxxx xxxx	CNEL		520								6.8				50.2
xxxx xxxx xxxx xxxx	CNEL		572								5.7				25.9

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 1

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2.8-Open Intake	3364	3544	31.9	90.5	77.4	88.0	84.8	79.5	69.6	59.7	42.9	73.5	69.2	
2011 Track Mobile switch moving rail cars 33 cars per day	3291	3503	25.2	109.0	84.3	95.5	92.6	91.1	96.5	101.7	102.9	102.7	100.6	95.1
Asphalt Production	3422	3497	27.6	113.8	75.9	89.1	96.2	100.7	106.1	106.3	107.5	107.3	105.2	
Boiler Crude Unit-Heater Opening	3505	3408	25.1	95.6	62.0	72.8	81.2	88.7	89.3	90.1	87.7	83.1	75.8	61.7
Compressor House C301, C302, C 124-Comp House East 1	3210	3601	26.6	101.8	58.4	70.2	90.2	94.5	95.7	94.1	95.5	89.7	85.3	
Compressor House C301, C302, C 124-Comp House East 2	3214	3606	26.6	100.5	67.7	73.9	82.0	93.5	93.9	94.1	91.3	94.1	78.0	
Compressor House C301, C302, C 124-Comp House North	3203	3609	26.6	103.5	60.1	72.0	91.9	96.3	97.4	95.9	97.2	91.4	87.1	
Compressor House C301, C302, C 124-Comp House South 1	3201	3598	26.6	107.7	64.3	76.1	96.1	100.4	101.6	100.0	101.4	95.6	91.2	
Compressor House C301, C302, C 124-Comp House South 2	3212	3603	26.6	100.8	57.4	69.2	89.2	93.5	94.7	93.1	94.5	88.7	84.3	
Compressor House C301, C302, C 124-Comp House West	3191	3603	26.6	97.4	55.0	70.2	83.9	88.9	90.9	91.3	89.9	88.8	82.1	
Cooling Tower CT 510-CT 510 East Side	3284	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 510-CT 510 West Side	3271	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 511-CT 511 East Side	3308	3603	27.9	97.6	55.2	70.3	84.1	89.1	91.1	91.5	90.1	89.0	82.3	
Cooling Tower CT 511-CT 511 West Side	3290	3603	27.9	97.7	55.2	70.4	84.1	89.2	91.2	91.5	90.2	89.0	82.4	
Crude Plant Operation 80 dB/m^2 at 1 m	3515	3448	24.7	113.7	75.8	89.0	96.1	100.6	106.0	106.2	107.4	107.2	105.1	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	3515	3448	26.7	113.7	75.8	89.0	96.1	100.6	106.0	106.2	107.4	107.2	105.1	
CT Y-600-CT Y-600 North	3454	3439	27.6	96.4	54.0	69.1	82.9	87.9	89.9	90.3	88.9	87.8	81.1	
CT Y-600-CT Y-600 South	3454	3424	27.7	96.4	54.0	69.1	82.9	87.9	89.9	90.3	88.9	87.8	81.1	
FG Compressor Enclosure-FG Enclosure Roof	3382	3529	28.4	82.4	69.9	73.6	78.9	77.3	64.9	66.3	62.6	57.7	53.1	
FG Compressor Enclosure-FG Enclosure East	3388	3529	26.0	77.7	65.5	69.1	74.4	72.4	59.1	60.6	56.9	52.2	47.6	
FG Compressor Enclosure-FG Enclosure East Louver 1	3388	3526	26.2	71.1	44.9	56.8	50.8	40.8	29.8	29.8	70.8	42.8	53.8	
FG Compressor Enclosure-FG Enclosure North	3382	3532	26.0	80.7	68.2	71.9	77.3	75.5	62.9	64.3	60.6	55.7	51.1	
FG Compressor Enclosure-FG Enclosure South	3382	3525	26.0	72.0	52.5	58.3	70.9	62.7	53.8	47.5	56.1	43.2	35.9	
FG Compressor Enclosure-FG Enclosure West	3375	3529	26.0	77.8	65.5	69.1	74.5	72.5	59.4	60.7	57.0	52.4	47.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	3375	3527	26.2	71.1	44.9	56.8	50.8	40.8	29.8	29.8	70.8	42.8	53.8	
Fin Fan XF 616 - Above	3483	3430	37.8	96.0	62.9	75.7	83.4	88.9	92.8	89.1	83.4	71.0	57.0	
Fin Fan XF 616 - Below	3483	3430	37.0	108.0	71.3	83.0	90.6	100.7	104.2	101.2	98.9	93.9	83.7	71.9
Fin Fan XF 617 - Above	3491	3430	38.5	93.0	59.9	72.7	80.4	85.9	89.8	86.1	80.4	68.0	54.0	
Fin Fan XF 617 - Below	3491	3430	37.5	104.0	67.3	79.0	86.6	96.7	100.2	97.2	94.9	89.9	79.7	67.9
Heater # 5-Heater	3508	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3503	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3498	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Misc pumps motors	3403	3620	25.8	100.2	62.2	75.4	82.5	87.0	92.4	92.6	93.8	93.6	91.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	3332	3542	25.4	68.5	52.2	59.4	62.0	61.9	64.3	53.6	47.4	24.6	5.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	3329	3541	25.4	66.8	50.5	57.7	60.3	60.2	62.6	51.9	45.7	22.9	3.5	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	3331	3540	27.1	69.5	53.2	60.4	63.0	62.8	65.2	54.5	48.4	25.6	6.1	
Solar Turbine T70 2nd Boiler-2nd Boiler South	3332	3538	25.4	68.5	52.2	59.4	62.0	61.9	64.3	53.6	47.4	24.6	5.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	3329	3539	25.4	68.8	50.4	57.7	60.7	62.6	65.5	54.8	48.7	25.9	6.4	
Solar Turbine T70 Boiler-Boiler East 1	3353	3539	25.9	77.1	55.2	65.4	70.0	69.8	73.2	65.5	65.4	50.6	33.1	
Solar Turbine T70 Boiler-Boiler East 2	3353	3541	25.9	76.2	54.3	64.5	69.0	68.9	72.3	64.6	64.5	49.7	32.2	
Solar Turbine T70 Boiler-Boiler North 1	3349	3542	25.9	87.1	65.2	75.4	80.0	79.8	83.2	75.5	75.4	60.6	43.1	
Solar Turbine T70 Boiler-Boiler North 2	3354	3541	25.9	78.7	56.8	67.0	71.6	71.4	74.8	67.1	67.0	52.2	34.7	
Solar Turbine T70 Boiler-Boiler Roof	3349	3540	28.3	85.4	63.5	73.7	78.3	78.2	81.6	73.9	73.7	58.9	41.4	
Solar Turbine T70 Boiler-Boiler South	3349	3538	25.9	87.1	65.2	75.4	80.0	79.8	83.3	75.5	75.4	60.6	43.1	
Solar Turbine T70 Boiler-Boiler South 2	3354	3539	25.9	78.5	56.5	66.7	71.3	71.2	74.6	66.9	66.7	51.9	34.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	3366	3540	25.4	96.3	63.4	69.6	77.7	89.2	89.6	89.8	87.0	89.8	73.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	3360	3542	25.4	101.7	68.8	75.0	83.1	94.6	95.0	95.2	92.4	95.2	79.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	3360	3540	27.2	101.3	68.5	74.7	82.8	94.3	94.7	94.9	92.1	94.9	78.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	3360	3538	25.4	101.7	68.8	75.0	83.1	94.6	95.0	95.2	92.4	95.2	79.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	3354	3541	25.4	90.5	57.6	63.8	71.9	83.4	83.8	84.0	81.2	84.0	67.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	3354	3539	25.4	90.6	57.7	63.9	72.0	83.5	83.9	84.1	81.3	84.1	68.0	
Solar Turbine T70 SCR-SCR Unit Roof	3339	3540	28.3	78.0	59.7	66.9	69.9	71.8	74.7	64.0	57.9	35.1	15.6	
Solar Turbine T70 SCR-SCR Unit NE	3343	3542	25.9	68.9	52.5	59.8	62.3	62.2	64.6	53.9	47.8	25.0	5.5	
Solar Turbine T70 SCR-SCR Unit North	3339	3543	25.9	75.9	57.5	64.8	67.8	69.7	72.6	61.9	55.8	33.0	13.5	
Solar Turbine T70 SCR-SCR Unit NW	3334	3542	25.9	70.4	52.0	59.2	62.3	64.2	67.1	56.4	50.2	27.4	8.0	
Solar Turbine T70 SCR-SCR Unit SE	3343	3538	25.9	70.8	52.4	59.7	62.7	64.6	67.5	56.8	50.7	27.9	8.4	
Solar Turbine T70 SCR-SCR Unit South	3339	3537	25.9	76.0	57.6	64.8	67.9	69.8	72.7	62.0	55.8	33.0	13.6	
Solar Turbine T70 SCR-SCR Unit SW	3334	3538	25.9	70.4	52.0	59.2	62.3	64.2	67.0	56.3	50.2	27.4	7.9	
XF 304, XF 321	3211	3658	33.5	110.5	72.5	90.1	100.7	102.9	106.0	103.0	99.7	99.7	89.9	78.4
XF 313, XF 314	3211	3688	31.5	113.0	57.9	80.5	99.8	101.7	107.6	109.0	104.8	98.6	87.1	74.3
XF 335-1, XF 335-2	3211	3670	33.5	113.4	73.7	91.5	102.0	104.4	107.3	104.8	108.4	102.8	93.6	82.1
XF 503	3229	3607	30.8	113.0	73.5	82.0	95.2	102.2	107.4	105.2	99.6	109.0	97.1	73.2
Air Compressor C 1	3229	3671	24.4	110.0	66.6	78.5	98.4	102.8	103.9	102.4	103.7	97.9	93.6	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 1

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Burner H301 North	3176	3687	25.8	96.1		64.1	70.0	77.4	91.2	90.6	88.2	88.0	83.7	
Burner H301 South	3176	3684	25.8	95.9		63.9	69.9	77.3	91.1	90.4	88.1	87.9	83.6	
Burner H302 North	3175	3672	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H302 South	3175	3669	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H303 North	3175	3633	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H303 South	3175	3629	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H304 North	3175	3643	25.8	97.0		65.0	70.9	78.3	92.1	91.5	89.1	88.9	84.6	
Burner H304 South	3175	3639	25.8	97.0		65.0	70.9	78.3	92.2	91.5	89.1	88.9	84.6	
Burner H305 North	3176	3652	25.8	96.3		64.3	70.3	77.7	91.5	90.8	88.5	88.2	84.0	
Burner H305 South	3176	3649	25.8	96.3		64.3	70.3	77.7	91.5	90.8	88.5	88.2	84.0	
Burner H306 North	3177	3662	25.8	95.0		63.0	69.0	76.4	90.2	89.5	87.2	86.9	82.7	
Burner H306 South	3177	3659	25.8	95.1		63.0	69.0	76.4	90.2	89.5	87.2	87.0	82.7	
Heater H 601	3490	3408	25.6	89.1	62.5	75.0	76.4	82.0	81.9	83.3	80.3	79.7	69.4	
Motor & Pump P 120/121	3229	3658	24.7	96.2	44.4	60.2	73.4	83.8	90.0	92.7	88.8	84.1	74.9	64.6
Motor & Pump P 300	3217	3661	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 301	3217	3659	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 302	3217	3662	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 303	3217	3664	24.7	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 305	3217	3665	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 306	3217	3675	25.1	112.6	52.9	82.5	86.6	105.4	106.6	101.6	107.3	99.9	103.9	82.3
Motor & Pump P 307	3217	3654	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 309	3217	3667	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 312	3217	3632	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 313	3217	3630	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 315	3217	3624	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 316	3217	3622	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 317	3217	3620	24.7	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 318	3218	3626	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 319	3218	3627	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 327	3217	3683	24.7	111.2	52.5	68.1	77.3	90.9	103.2	106.4	107.0	101.7	93.6	81.0
Motor & Pump P 328	3217	3669	25.1	109.9	58.1	73.9	87.2	97.6	103.7	106.4	102.5	97.8	88.6	78.4
Motor & Pump P 329	3217	3672	25.1	110.2	56.3	78.3	86.3	97.0	102.1	108.1	101.1	96.2	87.5	76.9
Motor & Pump P 1601 A	3294	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 B	3296	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 A	3297	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 B	3298	3620	25.5	96.5	47.5	62.6	74.7	82.3	87.7	90.8	92.0	88.9	79.8	
Motor & Pump P - 1502 Splitter Reflux Pu	3275	3620	24.6	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1503 Splitter Bottoms P	3275	3625	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1504 Splitter Bottoms P	3275	3628	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1507 Reactor Pump	3266	3623	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1508 Reactor Pump	3266	3625	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1511 Stabilizer Reflux	3282	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1512 Stabilizer Reflux	3279	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1513 Caustic Circulatin	3275	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1514 Caustic Circulatin	3277	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Rail Cars Bumping 6 times in during delivery	3272	3512	24.8	134.7	119.5	120.0	105.7	128.2	122.6	132.4	121.7	117.2	108.1	92.7
Tank Farm Pump 1	3543	3594	25.1	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 2	3565	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 3	3571	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
UP Train Locomotive Delivery and Pickup	3068	3642	26.8	112.4	87.7	98.9	96.0	94.5	99.9	105.1	106.3	106.1	104.0	98.5
Air Compressor Pump, Motor Fan CMXF -055	3356	3527	24.8	100.3	61.9	72.1	77.2	84.7	90.1	93.3	94.5	94.3	92.2	
BFW Pumps P-073A&B	3346	3528	24.3	95.8	48.1	63.3	73.4	82.9	88.3	91.5	88.7	86.5	84.4	
Blower F 401	3240	3559	25.3	113.0	75.6	87.5	101.6	109.9	107.3	103.6	98.5	92.1	84.9	66.1
Brine Transfer P-085	3333	3528	23.6	96.2	48.5	63.7	73.8	83.3	88.7	91.9	89.1	86.9	84.8	
Cooling Tower M 512	3277	3598	25.2	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 513	3276	3598	25.4	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 514	3279	3598	25.3	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Deaerator Skid P-058A&B	3349	3540	29.9	96.2	48.5	63.7	73.8	83.3	88.7	91.9	89.1	86.9	84.8	
Exhaust Stack	3328	3540	38.9	100.6	69.6	80.8	87.9	94.4	98.8	87.0	64.2	48.0	31.9	
F.G. After Cooler XF-083ABC	3372	3529	26.4	100.2	64.2	80.0	89.1	93.6	94.0	95.2	90.4	84.2	76.1	
Fan Y-600	3454	3432	32.5	107.5	63.2	82.0	94.2	99.5	102.4	102.0	99.1	93.8	87.2	76.8
Hydro Heater H-402	3250	3598	24.9	98.1	57.2	68.0	79.4	94.1	91.1	89.8	87.7	88.6	82.9	73.3
ID Fan	3160	3655	26.8	110.3		83.8	96.9	104.4	105.8	103.0	99.2	97.0	91.9	
ID Fan 200 HP Motor	3160	3653	25.5	104.4	55.3	70.5	82.6	90.1	95.5	98.7	99.9	96.7	87.6	
Incinirator Compressor & Motor	3576	3377	25.1	92.5	53.4	77.0	80.7	85.3	85.9	86.0	85.2	81.4	73.1	56.2
Incinirator Fin Fan	3575	3377	25.1	94.8	58.1	84.9	80.7	86.7	87.2	88.8	87.7	83.3	76.0	59.9
Lub Oil Cooler XF-061	3354	3543	25.3	100.5	64.5	80.3	89.4	93.9	94.3	95.5	90.7	84.5	76.4	
Motor & Pump P 56A/B	3242	3613	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 211/212	3223	3588	24.6	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 215/214	3222	3593	24.6	94.6	45.6	60.8	72.9	80.4	85.8	89.0	90.2	87.0	77.9	
Motor & Pump P 216	3216	3589	25.0	98.3	49.3	64.4	76.5	84.1	89.5	92.6	93.8	90.7	81.6	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 1

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 217/218	3223	3590	24.0	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 451	3251	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 453	3254	3579	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 454	3250	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 457	3254	3578	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 458	3253	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 459	3250	3592	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 1505 FRESH FEED PUMPS	3266	3620	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1506 FRESH FEED PUMPS	3266	3621	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1509 Chloride Injection P	3275	3655	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Motor & Pump P 1510 Chloride Injection P	3275	3656	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
P602 100 HP	3478	3424	25.0	94.1	45.4	52.7	63.4	80.8	90.1	88.4	87.7	80.4	72.5	
P603 60 HP	3472	3424	24.7	95.0	43.6	53.3	59.9	75.1	87.7	90.3	90.8	84.3	67.4	
P605 40 HP	3473	3424	24.8	95.0	43.6	53.3	59.9	75.1	87.7	90.3	90.8	84.3	67.4	
P607 15 HP	3483	3424	24.6	90.5	46.7	55.4	56.5	72.6	85.3	86.9	83.8	75.6	63.4	
P608 15 HP	3486	3425	24.6	90.5	46.7	55.4	56.5	72.6	85.3	86.9	83.8	75.6	63.4	
P611 15 HP	3480	3425	24.7	90.5	46.7	55.4	56.5	72.6	85.3	86.9	83.8	75.6	63.4	
P614/615 20 HP	3476	3432	26.2	93.0	48.6	52.7	60.6	78.2	86.7	90.2	85.6	76.5	67.3	
Scanner Blower C-084A/B	3351	3538	25.4	95.5		62.6	75.7	83.2	89.6	91.8	88.0	82.8	74.7	
Vaporizer Blower 1	3349	3543	24.5	88.7		55.8	68.9	76.4	82.8	85.0	81.2	76.0	67.9	
Vaporizer Blower 2	3348	3544	24.5	88.7		55.8	68.9	76.4	82.8	85.0	81.2	76.0	67.9	
Vaporizer Inlet Silencer	3350	3544	26.5	73.7		58.8	65.9	68.4	66.8	65.0	63.2	62.0	55.9	
Vaporizer Motor 1	3348	3543	24.5	83.6		41.8	55.9	67.4	76.8	80.0	77.2	73.0	66.9	
Vaporizer Motor 2	3348	3544	24.5	83.6		41.8	55.9	67.4	76.8	80.0	77.2	73.0	66.9	
Water Treatment Pumps P-056A&B	3336	3530	23.8	93.0	45.3	60.5	70.6	80.1	85.5	88.7	85.9	83.7	81.6	
XF-1502 Splitter Area 1	3277	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1502 Splitter Area 2	3277	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 1	3282	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 2	3282	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF - 1601	3296	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF - 1602	3302	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF Module 1510	3271	3622	32.7	108.3	76.4	83.4	88.7	94.4	98.1	104.3	103.5	98.7	90.4	76.1
XF Module 1519	3271	3627	32.7	109.0	77.1	84.1	89.4	95.1	98.8	105.0	104.2	99.4	91.1	76.8

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2.8-Open Intake	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
2011 Track Mobile switch moving rail cars 33 cars per day								106	106								106	106						
Air Compressor C 1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Air Compressor Pump, Motor Fan CMXF -055	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Asphalt Production	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
BFW Pumps P-073A&B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Blower F 401	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Boiler Crude Unit-Heater Opening	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Brine Transfer P-085	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H301 North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H301 South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H302 North	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H302 South	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H303 North	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H303 South	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H304 North	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H304 South	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Burner H305 North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H305 South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Burner H306 North	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Burner H306 South	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Compressor House C301, C302, C 124-Comp House East 1	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Compressor House C301, C302, C 124-Comp House East 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House North	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Compressor House C301, C302, C 124-Comp House South 1	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Compressor House C301, C302, C 124-Comp House South 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Cooling Tower CT 510-CT 510 East Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 510-CT 510 West Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 511-CT 511 East Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower CT 511-CT 511 West Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower M 512	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 513	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 514	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Crude Plant Operation 80 dB/m^2 at 1 m	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
Crude Plant Operation SPL 80 dB/m^2 at 3 m	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
CT Y-600-CT Y-600 North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
CT Y-600-CT Y-600 South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Deaerator Skid P-058A&B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Exhaust Stack	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
F.G. After Cooler XF-083ABC	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Fan Y-600	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
FG Compressor Enclosure-FG Enclosure Roof	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
FG Compressor Enclosure-FG Enclosure East	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
FG Compressor Enclosure-FG Enclosure East Louver 1	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
FG Compressor Enclosure-FG Enclosure North	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
FG Compressor Enclosure-FG Enclosure South	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
FG Compressor Enclosure-FG Enclosure West	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1 o'clock dB(A)	1-2 o'clock dB(A)	3-4 o'clock dB(A)	2-3 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)	6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)	10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)	14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)	18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)	22-23 o'clock dB(A)	23-24 o'clock dB(A)
FG Compressor Enclosure-FG Enclosure West Louver 3	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Fin Fan XF 616 - Above	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Fin Fan XF 616 - Below	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Fin Fan XF 617 - Above	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Fin Fan XF 617 - Below	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater H 601	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Hydro Heater H-402	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
ID Fan	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
ID Fan 200 HP Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Incinirator Compressor & Motor	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
Incinirator Fin Fan	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Lub Oil Cooler XF-061	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Misc pumps motors	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 56A/B	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 120/121	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 211/212	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 215/214	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 216	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 217/218	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 300	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 301	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 302	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 303	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 305	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 306	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Motor & Pump P 307	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 309	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 312	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 313	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 315	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 316	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 317	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 318	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 319	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 327	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Motor & Pump P 328	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 329	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 451	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 453	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 454	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 457	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 458	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 459	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 1505 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1506 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1509 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1510 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1601 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1601 B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1502 Splitter Reflux Pu	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1503 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1504 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1507 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1508 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1511 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1512 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1513 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1514 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
P602 100 HP	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
P603 60 HP	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
P605 40 HP	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
P607 15 HP	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
P608 15 HP	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
P611 15 HP	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
P614/615 20 HP	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
Rail Cars Bumping 6 times in during delivery											110													
Scanner Blower C-084A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Solar Turbine T70 2nd Boiler-2nd Boiler North	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 2nd Boiler-2nd Boiler NW	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Solar Turbine T70 2nd Boiler-2nd Boiler South	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 2nd Boiler-2nd Boiler SW	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 Boiler-Boiler East 1	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
Solar Turbine T70 Boiler-Boiler East 2	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Solar Turbine T70 Boiler-Boiler North 1	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Solar Turbine T70 Boiler-Boiler North 2	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
Solar Turbine T70 Boiler-Boiler Roof	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Solar Turbine T70 Boiler-Boiler South	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Solar Turbine T70 Boiler-Boiler South 2	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Solar Turbine T70 Enclosure-T70 Encl. East Wall	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Solar Turbine T70 Enclosure-T70 Encl. North Wall	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Solar Turbine T70 Enclosure-T70 Encl. Roof	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Solar Turbine T70 Enclosure-T70 Encl. South Wall	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Solar Turbine T70 SCR-SCR Unit Roof	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Solar Turbine T70 SCR-SCR Unit NE	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Solar Turbine T70 SCR-SCR Unit North	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Solar Turbine T70 SCR-SCR Unit NW	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Solar Turbine T70 SCR-SCR Unit SE	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Solar Turbine T70 SCR-SCR Unit South	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Solar Turbine T70 SCR-SCR Unit SW	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Tank Farm Pump 1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 2	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
UP Train Locomotive Delivery and Pickup											109													
Vaporizer Blower 1	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Vaporizer Blower 2	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Vaporizer Inlet Silencer	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
Vaporizer Motor 1	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Vaporizer Motor 2	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Water Treatment Pumps P-056A&B	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
XF-1502 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1502 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF 304, XF 321	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
XF 313, XF 314	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1 o'clock dB(A)	1-2 o'clock dB(A)	3-4 o'clock dB(A)	2-3 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)	6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)	10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)	14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)	18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)	22-23 o'clock dB(A)	23-24 o'clock dB(A)
XF 335-1, XF 335-2	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 503	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF - 1601	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF - 1602	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF Module 1510	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
XF Module 1519	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

AltAir Paramount - WorldEnergy
Assessed receiver levels
Case 1

Receiver	Fl	X m	Y m	Z m	GH m	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
W-1	G	3058.6	3658.8	25.3	23.8	65.4	64.7	69.6	
W-2	G	3059.7	3750.2	24.7	23.2	65.1	65.1	65.3	
W-3	G	3060.8	3849.7	25.0	23.5	59.5	59.5	59.9	
N-1	G	3152.3	3848.3	25.1	23.6	59.9	59.8	60.1	
N-2	G	3251.7	3846.8	25.6	24.1	53.6	53.6	54.0	
N-3	G	3249.9	3754.2	25.6	24.1	67.8	67.8	67.9	
N-4	G	3341.4	3753.4	25.9	24.4	60.0	60.0	60.1	
N-5	G	3432.8	3752.5	25.9	24.4	56.5	56.5	56.6	
N-6	G	3547.8	3751.5	26.2	24.7	53.8	53.8	53.9	
N-7	G	3639.3	3751.1	26.8	25.3	54.9	54.9	55.0	
N-8	G	3730.7	3750.8	26.5	25.0	55.9	55.9	56.0	
E-1	G	3827.7	3750.4	27.1	25.6	53.2	53.2	53.3	
E-2	G	3829.7	3659.0	27.1	25.6	53.7	53.6	53.7	
E-3	G	3831.0	3598.5	27.1	25.6	51.6	51.6	51.6	
E-4	G	3832.5	3542.1	27.0	25.5	53.8	53.8	53.9	
E-5	G	3832.4	3466.9	26.2	24.7	60.7	60.7	60.7	
E-6	G	3791.9	3467.3	26.0	24.5	61.5	61.5	61.5	
S-1	G	3792.1	3361.0	25.0	23.5	55.8	55.8	55.9	
S-2	G	3709.7	3360.5	25.0	23.5	51.8	51.8	51.9	
S-3	G	3662.7	3361.1	25.0	23.5	49.4	49.2	49.6	
S-4	G	3592.7	3361.1	25.2	23.7	59.1	59.1	59.3	
S-5	G	3529.6	3361.9	25.2	23.7	62.2	62.0	62.6	
S-6	G	3452.3	3410.7	25.2	23.7	74.4	74.3	74.6	
S-7	G	3374.9	3459.4	25.1	23.6	70.9	70.0	73.6	
S-8	G	3297.5	3508.2	25.0	23.5	71.1	69.0	73.9	
S-9	G	3220.2	3556.9	25.0	23.5	75.9	75.7	77.3	
S-10	G	3142.8	3605.7	25.0	23.5	69.5	68.6	74.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Receiver W-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 65.4 dB(A)	Ld 7-19 dB(A)	Leq,N 64.7 dB(A)	Le 19-2
2.8-Open Intake	30.4	30.4	30.4	
2011 Track Mobile switch moving rail cars 33 cars per day	45.7			
Air Compressor C 1	48.5	48.5	48.5	
Air Compressor Pump, Motor Fan CMXF -055	27.9	27.9	27.9	
Asphalt Production	44.8	44.8	44.8	
BFW Pumps P-073A&B	25.3	25.3	25.3	
Blower F 401	49.3	49.3	49.3	
Boiler Crude Unit-Heater Opening	21.6	21.6	21.6	
Brine Transfer P-085	20.5	20.5	20.5	
Burner H301 North	25.5	25.5	25.5	
Burner H301 South	42.9	42.9	42.9	
Burner H302 North	31.9	31.9	31.9	
Burner H302 South	45.3	45.3	45.3	
Burner H303 North	40.9	40.9	40.9	
Burner H303 South	39.5	39.5	39.5	
Burner H304 North	37.3	37.3	37.3	
Burner H304 South	31.2	31.2	31.2	
Burner H305 North	38.7	38.7	38.7	
Burner H305 South	32.1	32.1	32.1	
Burner H306 North	35.7	35.7	35.7	
Burner H306 South	28.7	28.7	28.7	
Compressor House C301, C302, C 124-Comp House East 1	24.4	24.4	24.4	
Compressor House C301, C302, C 124-Comp House East 2	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House North	48.1	48.1	48.1	
Compressor House C301, C302, C 124-Comp House South 1	37.1	37.1	37.1	
Compressor House C301, C302, C 124-Comp House South 2	25.3	25.3	25.3	
Compressor House C301, C302, C 124-Comp House West	40.7	40.7	40.7	
Cooling Tower CT 510-CT 510 East Side	23.2	23.2	23.2	
Cooling Tower CT 510-CT 510 West Side	35.9	35.9	35.9	
Cooling Tower CT 511-CT 511 East Side	15.7	15.7	15.7	
Cooling Tower CT 511-CT 511 West Side	35.0	35.0	35.0	
Cooling Tower M 512	24.3	24.3	24.3	
Cooling Tower M 513	24.3	24.3	24.3	
Cooling Tower M 514	24.3	24.3	24.3	
Crude Plant Operation 80 dB/m^2 at 1 m	41.4	41.4	41.4	
Crude Operatoin Truck Truck Traffic	16.1	16.1	16.1	
Crude Operatoin Truck Truck Traffic LPG	26.5	26.5	26.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	41.8	41.8	41.8	
Crude Refinery / Renewable Fuels Truck T	30.2	29.6	29.6	
CT Y-600-CT Y-600 North	27.3	27.3	27.3	
CT Y-600-CT Y-600 South	24.5	24.5	24.5	
Deaerator Skid P-058A&B	30.2	30.2	30.2	
Exhaust Stack	38.7	38.7	38.7	
F.G. After Cooler XF-083ABC	32.1	32.1	32.1	
Fan Y-600	34.9	34.9	34.9	
FG Compressor Enclosure-FG Enclosure Roof	15.8	15.8	15.8	
FG Compressor Enclosure-FG Enclosure East	8.9	8.9	8.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	-6.1	-6.1	-6.1	
FG Compressor Enclosure-FG Enclosure North	16.8	16.8	16.8	
FG Compressor Enclosure-FG Enclosure South	5.0	5.0	5.0	
FG Compressor Enclosure-FG Enclosure West	14.9	14.9	14.9	
FG Compressor Enclosure-FG Enclosure West Louver 3	1.9	1.9	1.9	
Fin Fan XF 616 - Above	19.1	19.1	19.1	
Fin Fan XF 616 - Below	33.7	33.7	33.7	
Fin Fan XF 617 - Above	15.7	15.7	15.7	
Fin Fan XF 617 - Below	30.6	30.6	30.6	
Heater # 5-Heater	13.4	13.4	13.4	
Heater # 5-Heater	12.9	12.9	12.9	
Heater # 5-Heater	13.2	13.2	13.2	
Heater H 601	18.3	18.3	18.3	
Hydro Heater H-402	29.7	29.7	29.7	
ID Fan	55.9	55.9	55.9	
ID Fan 200 HP Motor	46.4	46.4	46.4	
Incinirator Compressor & Motor	22.1	22.1	22.1	
Incinirator Fin Fan	24.5	24.5	24.5	
Lub Oil Cooler XF-061	29.7	29.7	29.7	
Misc pumps motors	24.1	24.1	24.1	
Motor & Pump P - 1502 Splitter Reflux Pu	22.4	22.4	22.4	
Motor & Pump P - 1503 Splitter Bottoms P	20.2	20.2	20.2	
Motor & Pump P - 1504 Splitter Bottoms P	26.9	26.9	26.9	
Motor & Pump P - 1507 Reactor Pump	22.7	22.7	22.7	
Motor & Pump P - 1508 Reactor Pump	20.7	20.7	20.7	
Motor & Pump P - 1511 Stabilizer Reflux	20.9	20.9	20.9	
Motor & Pump P - 1512 Stabilizer Reflux	21.0	21.0	21.0	
Motor & Pump P - 1513 Caustic Circulatin	21.5	21.5	21.5	
Motor & Pump P - 1514 Caustic Circulatin	21.2	21.2	21.2	
Motor & Pump P 120/121	24.2	24.2	24.2	
Motor & Pump P 1505 FRESH FEED PUMPS	23.5	23.5	23.5	
Motor & Pump P 1506 FRESH FEED PUMPS	23.7	23.7	23.7	
Motor & Pump P 1509 Chloride Injection P	34.2	34.2	34.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 1510 Chloride Injection P	35.8	35.8	35.8	
Motor & Pump P 1601 A	19.4	19.4	19.4	
Motor & Pump P 1601 B	19.3	19.3	19.3	
Motor & Pump P 1602 A	19.3	19.3	19.3	
Motor & Pump P 1602 B	20.9	20.9	20.9	
Motor & Pump P 211/212	25.2	25.2	25.2	
Motor & Pump P 215/214	21.3	21.3	21.3	
Motor & Pump P 216	31.1	31.1	31.1	
Motor & Pump P 217/218	22.0	22.0	22.0	
Motor & Pump P 300	23.6	23.6	23.6	
Motor & Pump P 301	30.4	30.4	30.4	
Motor & Pump P 302	23.5	23.5	23.5	
Motor & Pump P 303	40.7	40.7	40.7	
Motor & Pump P 305	41.1	41.1	41.1	
Motor & Pump P 306	43.2	43.2	43.2	
Motor & Pump P 307	32.8	32.8	32.8	
Motor & Pump P 309	44.0	44.0	44.0	
Motor & Pump P 312	30.1	30.1	30.1	
Motor & Pump P 313	33.1	33.1	33.1	
Motor & Pump P 315	33.1	33.1	33.1	
Motor & Pump P 316	31.0	31.0	31.0	
Motor & Pump P 317	34.6	34.6	34.6	
Motor & Pump P 318	29.8	29.8	29.8	
Motor & Pump P 319	29.6	29.6	29.6	
Motor & Pump P 327	57.1	57.1	57.1	
Motor & Pump P 328	56.1	56.1	56.1	
Motor & Pump P 329	56.4	56.4	56.4	
Motor & Pump P 451	20.3	20.3	20.3	
Motor & Pump P 453	24.1	24.1	24.1	
Motor & Pump P 454	20.3	20.3	20.3	
Motor & Pump P 457	20.2	20.2	20.2	
Motor & Pump P 458	20.7	20.7	20.7	
Motor & Pump P 459	20.2	20.2	20.2	
Motor & Pump P 56A/B	20.0	20.0	20.0	
P602 100 HP	15.6	15.6	15.6	
P603 60 HP	12.3	12.3	12.3	
P605 40 HP	12.6	12.6	12.6	
P607 15 HP	10.5	10.5	10.5	
P608 15 HP	13.7	13.7	13.7	
P611 15 HP	11.6	11.6	11.6	
P614/615 20 HP	16.2	16.2	16.2	
Rail Cars Bumping 6 times in during delivery	45.1		56.9	
Scanner Blower C-084A/B	18.6	18.6	18.6	
Solar Turbine T70 2nd Boiler-2nd Boiler North	10.7	10.7	10.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	9.5	9.5	9.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	8.8	8.8	8.8	
Solar Turbine T70 2nd Boiler-2nd Boiler South	4.4	4.4	4.4	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler East 1	6.3	6.3	6.3	
Solar Turbine T70 Boiler-Boiler East 2	4.3	4.3	4.3	
Solar Turbine T70 Boiler-Boiler North 1	23.0	23.0	23.0	
Solar Turbine T70 Boiler-Boiler North 2	7.9	7.9	7.9	
Solar Turbine T70 Boiler-Boiler Roof	18.2	18.2	18.2	
Solar Turbine T70 Boiler-Boiler South	16.9	16.9	16.9	
Solar Turbine T70 Boiler-Boiler South 2	7.6	7.6	7.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	24.7	24.7	24.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	31.1	31.1	31.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	28.0	28.0	28.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	33.3	33.3	33.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	19.9	19.9	19.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	15.4	15.4	15.4	
Solar Turbine T70 SCR-SCR Unit Roof	14.4	14.4	14.4	
Solar Turbine T70 SCR-SCR Unit NE	-1.5	-1.5	-1.5	
Solar Turbine T70 SCR-SCR Unit North	14.1	14.1	14.1	
Solar Turbine T70 SCR-SCR Unit NW	11.2	11.2	11.2	
Solar Turbine T70 SCR-SCR Unit SE	2.3	2.3	2.3	
Solar Turbine T70 SCR-SCR Unit South	10.6	10.6	10.6	
Solar Turbine T70 SCR-SCR Unit SW	5.8	5.8	5.8	
Tank Farm Pump 1	25.0	25.0	25.0	
Tank Farm Pump 2	25.1	25.1	25.1	
Tank Farm Pump 3	25.1	25.1	25.1	
UP Train Locomotive Delivery and Pickup	55.7		67.5	
Vaporizer Blower 1	15.5	15.5	15.5	
Vaporizer Blower 2	21.3	21.3	21.3	
Vaporizer Inlet Silencer	4.5	4.5	4.5	
Vaporizer Motor 1	9.6	9.6	9.6	
Vaporizer Motor 2	16.3	16.3	16.3	
Water Treatment Pumps P-056A&B	30.2	30.2	30.2	
XF-1502 Splitter Area 1	37.1	37.1	37.1	
XF-1502 Splitter Area 2	34.1	34.1	34.1	
XF-1504 Splitter Area 1	37.1	37.1	37.1	
XF-1504 Splitter Area 2	35.2	35.2	35.2	
XF - 1601	31.6	31.6	31.6	
XF - 1602	31.4	31.4	31.4	
XF 304, XF 321	51.4	51.4	51.4	
XF 313, XF 314	52.7	52.7	52.7	
XF 335-1, XF 335-2	53.9	53.9	53.9	
XF 503	46.9	46.9	46.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF Module 1510	38.3	38.3	38.3	
XF Module 1519	38.8	38.8	38.8	
Receiver W-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 65.1 dB(A)	Ld 7-19 dB(A)	Leq,N 65.1 dB(A)	Le 19-2
2.8-Open Intake	33.5	33.5	33.5	
2011 Track Mobile switch moving rail cars 33 cars per day	32.7			
Air Compressor C 1	40.4	40.4	40.4	
Air Compressor Pump, Motor Fan CMXF -055	21.2	21.2	21.2	
Asphalt Production	41.2	41.2	41.2	
BFW Pumps P-073A&B	13.0	13.0	13.0	
Blower F 401	46.8	46.8	46.8	
Boiler Crude Unit-Heater Opening	14.5	14.5	14.5	
Brine Transfer P-085	18.8	18.8	18.8	
Burner H301 North	48.1	48.1	48.1	
Burner H301 South	37.1	37.1	37.1	
Burner H302 North	45.5	45.5	45.5	
Burner H302 South	31.9	31.9	31.9	
Burner H303 North	37.2	37.2	37.2	
Burner H303 South	23.4	23.4	23.4	
Burner H304 North	32.7	32.7	32.7	
Burner H304 South	36.0	36.0	36.0	
Burner H305 North	40.8	40.8	40.8	
Burner H305 South	30.2	30.2	30.2	
Burner H306 North	40.8	40.8	40.8	
Burner H306 South	31.6	31.6	31.6	
Compressor House C301, C302, C 124-Comp House East 1	22.0	22.0	22.0	
Compressor House C301, C302, C 124-Comp House East 2	26.8	26.8	26.8	
Compressor House C301, C302, C 124-Comp House North	43.1	43.1	43.1	
Compressor House C301, C302, C 124-Comp House South 1	27.0	27.0	27.0	
Compressor House C301, C302, C 124-Comp House South 2	22.1	22.1	22.1	
Compressor House C301, C302, C 124-Comp House West	33.1	33.1	33.1	
Cooling Tower CT 510-CT 510 East Side	20.0	20.0	20.0	
Cooling Tower CT 510-CT 510 West Side	37.0	37.0	37.0	
Cooling Tower CT 511-CT 511 East Side	16.2	16.2	16.2	
Cooling Tower CT 511-CT 511 West Side	34.9	34.9	34.9	
Cooling Tower M 512	24.2	24.2	24.2	
Cooling Tower M 513	26.9	26.9	26.9	
Cooling Tower M 514	22.2	22.2	22.2	
Crude Plant Operation 80 dB/m^2 at 1 m	37.9	37.9	37.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Crude Operatoin Truck Truck Traffic	20.6	20.6	20.6	
Crude Operatoin Truck Truck Traffic LPG	25.6	25.6	25.6	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	38.6	38.6	38.6	
Crude Refinery / Renewable Fuels Truck T	24.8	24.3	24.3	
CT Y-600-CT Y-600 North	19.9	19.9	19.9	
CT Y-600-CT Y-600 South	15.5	15.5	15.5	
Deaerator Skid P-058A&B	31.5	31.5	31.5	
Exhaust Stack	35.0	35.0	35.0	
F.G. After Cooler XF-083ABC	34.8	34.8	34.8	
Fan Y-600	24.4	24.4	24.4	
FG Compressor Enclosure-FG Enclosure Roof	17.8	17.8	17.8	
FG Compressor Enclosure-FG Enclosure East	6.9	6.9	6.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	-8.4	-8.4	-8.4	
FG Compressor Enclosure-FG Enclosure North	17.9	17.9	17.9	
FG Compressor Enclosure-FG Enclosure South	2.9	2.9	2.9	
FG Compressor Enclosure-FG Enclosure West	16.3	16.3	16.3	
FG Compressor Enclosure-FG Enclosure West Louver 3	-2.2	-2.2	-2.2	
Fin Fan XF 616 - Above	20.6	20.6	20.6	
Fin Fan XF 616 - Below	32.0	32.0	32.0	
Fin Fan XF 617 - Above	18.3	18.3	18.3	
Fin Fan XF 617 - Below	27.6	27.6	27.6	
Heater # 5-Heater	10.9	10.9	10.9	
Heater # 5-Heater	9.6	9.6	9.6	
Heater # 5-Heater	8.7	8.7	8.7	
Heater H 601	13.1	13.1	13.1	
Hydro Heater H-402	27.5	27.5	27.5	
ID Fan	47.4	47.4	47.4	
ID Fan 200 HP Motor	36.9	36.9	36.9	
Incinirator Compressor & Motor	24.4	24.4	24.4	
Incinirator Fin Fan	26.9	26.9	26.9	
Lub Oil Cooler XF-061	37.9	37.9	37.9	
Misc pumps motors	30.3	30.3	30.3	
Motor & Pump P - 1502 Splitter Reflux Pu	29.1	29.1	29.1	
Motor & Pump P - 1503 Splitter Bottoms P	25.9	25.9	25.9	
Motor & Pump P - 1504 Splitter Bottoms P	26.1	26.1	26.1	
Motor & Pump P - 1507 Reactor Pump	27.8	27.8	27.8	
Motor & Pump P - 1508 Reactor Pump	29.3	29.3	29.3	
Motor & Pump P - 1511 Stabilizer Reflux	31.9	31.9	31.9	
Motor & Pump P - 1512 Stabilizer Reflux	32.1	32.1	32.1	
Motor & Pump P - 1513 Caustic Circulatin	32.5	32.5	32.5	
Motor & Pump P - 1514 Caustic Circulatin	32.2	32.2	32.2	
Motor & Pump P 120/121	34.4	34.4	34.4	
Motor & Pump P 1505 FRESH FEED PUMPS	30.5	30.5	30.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	28.5	28.5	28.5	
Motor & Pump P 1509 Chloride Injection P	27.2	27.2	27.2	
Motor & Pump P 1510 Chloride Injection P	30.9	30.9	30.9	
Motor & Pump P 1601 A	30.3	30.3	30.3	
Motor & Pump P 1601 B	31.1	31.1	31.1	
Motor & Pump P 1602 A	31.4	31.4	31.4	
Motor & Pump P 1602 B	32.0	32.0	32.0	
Motor & Pump P 211/212	20.1	20.1	20.1	
Motor & Pump P 215/214	21.6	21.6	21.6	
Motor & Pump P 216	21.7	21.7	21.7	
Motor & Pump P 217/218	20.1	20.1	20.1	
Motor & Pump P 300	36.9	36.9	36.9	
Motor & Pump P 301	43.0	43.0	43.0	
Motor & Pump P 302	36.4	36.4	36.4	
Motor & Pump P 303	35.2	35.2	35.2	
Motor & Pump P 305	36.1	36.1	36.1	
Motor & Pump P 306	57.0	57.0	57.0	
Motor & Pump P 307	43.3	43.3	43.3	
Motor & Pump P 309	42.2	42.2	42.2	
Motor & Pump P 312	41.1	41.1	41.1	
Motor & Pump P 313	39.9	39.9	39.9	
Motor & Pump P 315	36.1	36.1	36.1	
Motor & Pump P 316	40.0	40.0	40.0	
Motor & Pump P 317	39.5	39.5	39.5	
Motor & Pump P 318	36.2	36.2	36.2	
Motor & Pump P 319	37.0	37.0	37.0	
Motor & Pump P 327	57.8	57.8	57.8	
Motor & Pump P 328	56.6	56.6	56.6	
Motor & Pump P 329	57.7	57.7	57.7	
Motor & Pump P 451	28.5	28.5	28.5	
Motor & Pump P 453	23.7	23.7	23.7	
Motor & Pump P 454	28.5	28.5	28.5	
Motor & Pump P 457	23.3	23.3	23.3	
Motor & Pump P 458	28.7	28.7	28.7	
Motor & Pump P 459	26.5	26.5	26.5	
Motor & Pump P 56A/B	26.4	26.4	26.4	
P602 100 HP	10.3	10.3	10.3	
P603 60 HP	13.2	13.2	13.2	
P605 40 HP	13.4	13.4	13.4	
P607 15 HP	8.4	8.4	8.4	
P608 15 HP	12.0	12.0	12.0	
P611 15 HP	8.0	8.0	8.0	
P614/615 20 HP	14.6	14.6	14.6	
Rail Cars Bumping 6 times in during delivery	33.1		44.8	
Scanner Blower C-084A/B	15.2	15.2	15.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler North	4.1	4.1	4.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-0.8	-0.8	-0.8	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-2.3	-2.3	-2.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-6.3	-6.3	-6.3	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-1.2	-1.2	-1.2	
Solar Turbine T70 Boiler-Boiler East 1	6.5	6.5	6.5	
Solar Turbine T70 Boiler-Boiler East 2	9.2	9.2	9.2	
Solar Turbine T70 Boiler-Boiler North 1	28.7	28.7	28.7	
Solar Turbine T70 Boiler-Boiler North 2	15.1	15.1	15.1	
Solar Turbine T70 Boiler-Boiler Roof	21.6	21.6	21.6	
Solar Turbine T70 Boiler-Boiler South	15.8	15.8	15.8	
Solar Turbine T70 Boiler-Boiler South 2	8.0	8.0	8.0	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	20.1	20.1	20.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	35.2	35.2	35.2	
Solar Turbine T70 Enclosure-T70 Encl. Roof	32.7	32.7	32.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	25.8	25.8	25.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	24.6	24.6	24.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	14.2	14.2	14.2	
Solar Turbine T70 SCR-SCR Unit Roof	12.5	12.5	12.5	
Solar Turbine T70 SCR-SCR Unit NE	2.6	2.6	2.6	
Solar Turbine T70 SCR-SCR Unit North	15.4	15.4	15.4	
Solar Turbine T70 SCR-SCR Unit NW	7.7	7.7	7.7	
Solar Turbine T70 SCR-SCR Unit SE	-1.1	-1.1	-1.1	
Solar Turbine T70 SCR-SCR Unit South	1.4	1.4	1.4	
Solar Turbine T70 SCR-SCR Unit SW	-7.4	-7.4	-7.4	
Tank Farm Pump 1	17.0	17.0	17.0	
Tank Farm Pump 2	19.0	19.0	19.0	
Tank Farm Pump 3	19.3	19.3	19.3	
UP Train Locomotive Delivery and Pickup	39.9		51.6	
Vaporizer Blower 1	27.6	27.6	27.6	
Vaporizer Blower 2	26.6	26.6	26.6	
Vaporizer Inlet Silencer	12.3	12.3	12.3	
Vaporizer Motor 1	22.1	22.1	22.1	
Vaporizer Motor 2	21.0	21.0	21.0	
Water Treatment Pumps P-056A&B	14.6	14.6	14.6	
XF-1502 Splitter Area 1	38.6	38.6	38.6	
XF-1502 Splitter Area 2	38.8	38.8	38.8	
XF-1504 Splitter Area 1	37.0	37.0	37.0	
XF-1504 Splitter Area 2	38.5	38.5	38.5	
XF - 1601	35.5	35.5	35.5	
XF - 1602	33.6	33.6	33.6	
XF 304, XF 321	49.0	49.0	49.0	
XF 313, XF 314	53.3	53.3	53.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF 335-1, XF 335-2	52.9	52.9	52.9	
XF 503	43.8	43.8	43.8	
XF Module 1510	43.1	43.1	43.1	
XF Module 1519	42.8	42.8	42.8	
Receiver W-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 59.5 dB(A)	Ld 7-19 dB(A)	Leq,N 59.5 dB(A)	Le 19-2
2.8-Open Intake	29.8	29.8	29.8	
2011 Track Mobile switch moving rail cars 33 cars per day	32.7			
Air Compressor C 1	38.9	38.9	38.9	
Air Compressor Pump, Motor Fan CMXF -055	20.3	20.3	20.3	
Asphalt Production	42.2	42.2	42.2	
BFW Pumps P-073A&B	18.0	18.0	18.0	
Blower F 401	42.1	42.1	42.1	
Boiler Crude Unit-Heater Opening	18.9	18.9	18.9	
Brine Transfer P-085	24.1	24.1	24.1	
Burner H301 North	42.1	42.1	42.1	
Burner H301 South	28.6	28.6	28.6	
Burner H302 North	40.1	40.1	40.1	
Burner H302 South	34.2	34.2	34.2	
Burner H303 North	35.5	35.5	35.5	
Burner H303 South	26.7	26.7	26.7	
Burner H304 North	37.9	37.9	37.9	
Burner H304 South	32.1	32.1	32.1	
Burner H305 North	41.5	41.5	41.5	
Burner H305 South	34.4	34.4	34.4	
Burner H306 North	34.3	34.3	34.3	
Burner H306 South	39.0	39.0	39.0	
Compressor House C301, C302, C 124-Comp House East 1	21.1	21.1	21.1	
Compressor House C301, C302, C 124-Comp House East 2	25.9	25.9	25.9	
Compressor House C301, C302, C 124-Comp House North	42.6	42.6	42.6	
Compressor House C301, C302, C 124-Comp House South 1	26.5	26.5	26.5	
Compressor House C301, C302, C 124-Comp House South 2	19.3	19.3	19.3	
Compressor House C301, C302, C 124-Comp House West	33.7	33.7	33.7	
Cooling Tower CT 510-CT 510 East Side	13.6	13.6	13.6	
Cooling Tower CT 510-CT 510 West Side	33.1	33.1	33.1	
Cooling Tower CT 511-CT 511 East Side	13.1	13.1	13.1	
Cooling Tower CT 511-CT 511 West Side	36.9	36.9	36.9	
Cooling Tower M 512	17.8	17.8	17.8	
Cooling Tower M 513	16.6	16.6	16.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower M 514	17.7	17.7	17.7	
Crude Plant Operation 80 dB/m^2 at 1 m	40.6	40.6	40.6	
Crude Operatoin Truck Truck Traffic	22.8	22.8	22.8	
Crude Operatoin Truck Truck Traffic LPG	24.6	24.6	24.6	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	41.7	41.7	41.7	
Crude Refinery / Renewable Fuels Truck T	24.8	24.3	24.3	
CT Y-600-CT Y-600 North	23.4	23.4	23.4	
CT Y-600-CT Y-600 South	16.6	16.6	16.6	
Deaerator Skid P-058A&B	27.5	27.5	27.5	
Exhaust Stack	38.8	38.8	38.8	
F.G. After Cooler XF-083ABC	32.2	32.2	32.2	
Fan Y-600	32.5	32.5	32.5	
FG Compressor Enclosure-FG Enclosure Roof	17.5	17.5	17.5	
FG Compressor Enclosure-FG Enclosure East	6.4	6.4	6.4	
FG Compressor Enclosure-FG Enclosure East Louver 1	-9.0	-9.0	-9.0	
FG Compressor Enclosure-FG Enclosure North	17.1	17.1	17.1	
FG Compressor Enclosure-FG Enclosure South	1.1	1.1	1.1	
FG Compressor Enclosure-FG Enclosure West	14.2	14.2	14.2	
FG Compressor Enclosure-FG Enclosure West Louver 3	0.6	0.6	0.6	
Fin Fan XF 616 - Above	20.0	20.0	20.0	
Fin Fan XF 616 - Below	29.8	29.8	29.8	
Fin Fan XF 617 - Above	16.7	16.7	16.7	
Fin Fan XF 617 - Below	24.8	24.8	24.8	
Heater # 5-Heater	13.5	13.5	13.5	
Heater # 5-Heater	11.2	11.2	11.2	
Heater # 5-Heater	12.3	12.3	12.3	
Heater H 601	18.9	18.9	18.9	
Hydro Heater H-402	31.9	31.9	31.9	
ID Fan	50.4	50.4	50.4	
ID Fan 200 HP Motor	41.8	41.8	41.8	
Incinirator Compressor & Motor	19.1	19.1	19.1	
Incinirator Fin Fan	21.9	21.9	21.9	
Lub Oil Cooler XF-061	28.7	28.7	28.7	
Misc pumps motors	22.3	22.3	22.3	
Motor & Pump P - 1502 Splitter Reflux Pu	23.0	23.0	23.0	
Motor & Pump P - 1503 Splitter Bottoms P	25.5	25.5	25.5	
Motor & Pump P - 1504 Splitter Bottoms P	24.9	24.9	24.9	
Motor & Pump P - 1507 Reactor Pump	22.1	22.1	22.1	
Motor & Pump P - 1508 Reactor Pump	20.8	20.8	20.8	
Motor & Pump P - 1511 Stabilizer Reflux	26.0	26.0	26.0	
Motor & Pump P - 1512 Stabilizer Reflux	23.9	23.9	23.9	
Motor & Pump P - 1513 Caustic Circulatin	30.0	30.0	30.0	
Motor & Pump P - 1514 Caustic Circulatin	29.2	29.2	29.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 120/121	30.9	30.9	30.9	
Motor & Pump P 1505 FRESH FEED PUMPS	27.0	27.0	27.0	
Motor & Pump P 1506 FRESH FEED PUMPS	22.4	22.4	22.4	
Motor & Pump P 1509 Chloride Injection P	32.1	32.1	32.1	
Motor & Pump P 1510 Chloride Injection P	32.1	32.1	32.1	
Motor & Pump P 1601 A	27.9	27.9	27.9	
Motor & Pump P 1601 B	29.5	29.5	29.5	
Motor & Pump P 1602 A	26.8	26.8	26.8	
Motor & Pump P 1602 B	19.8	19.8	19.8	
Motor & Pump P 211/212	17.7	17.7	17.7	
Motor & Pump P 215/214	20.0	20.0	20.0	
Motor & Pump P 216	21.5	21.5	21.5	
Motor & Pump P 217/218	18.3	18.3	18.3	
Motor & Pump P 300	30.0	30.0	30.0	
Motor & Pump P 301	33.3	33.3	33.3	
Motor & Pump P 302	30.5	30.5	30.5	
Motor & Pump P 303	33.7	33.7	33.7	
Motor & Pump P 305	35.7	35.7	35.7	
Motor & Pump P 306	47.9	47.9	47.9	
Motor & Pump P 307	36.6	36.6	36.6	
Motor & Pump P 309	36.7	36.7	36.7	
Motor & Pump P 312	38.5	38.5	38.5	
Motor & Pump P 313	35.8	35.8	35.8	
Motor & Pump P 315	39.4	39.4	39.4	
Motor & Pump P 316	38.9	38.9	38.9	
Motor & Pump P 317	37.9	37.9	37.9	
Motor & Pump P 318	36.4	36.4	36.4	
Motor & Pump P 319	35.8	35.8	35.8	
Motor & Pump P 327	44.6	44.6	44.6	
Motor & Pump P 328	47.9	47.9	47.9	
Motor & Pump P 329	47.4	47.4	47.4	
Motor & Pump P 451	19.3	19.3	19.3	
Motor & Pump P 453	24.4	24.4	24.4	
Motor & Pump P 454	20.6	20.6	20.6	
Motor & Pump P 457	25.9	25.9	25.9	
Motor & Pump P 458	22.0	22.0	22.0	
Motor & Pump P 459	19.5	19.5	19.5	
Motor & Pump P 56A/B	23.4	23.4	23.4	
P602 100 HP	16.8	16.8	16.8	
P603 60 HP	14.5	14.5	14.5	
P605 40 HP	14.9	14.9	14.9	
P607 15 HP	21.9	21.9	21.9	
P608 15 HP	16.9	16.9	16.9	
P611 15 HP	12.6	12.6	12.6	
P614/615 20 HP	24.6	24.6	24.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Rail Cars Bumping 6 times in during delivery	34.2		46.0	
Scanner Blower C-084A/B	12.8	12.8	12.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	7.4	7.4	7.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	5.2	5.2	5.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	6.0	6.0	6.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-1.0	-1.0	-1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-5.3	-5.3	-5.3	
Solar Turbine T70 Boiler-Boiler East 1	3.7	3.7	3.7	
Solar Turbine T70 Boiler-Boiler East 2	-3.9	-3.9	-3.9	
Solar Turbine T70 Boiler-Boiler North 1	21.1	21.1	21.1	
Solar Turbine T70 Boiler-Boiler North 2	3.9	3.9	3.9	
Solar Turbine T70 Boiler-Boiler Roof	18.8	18.8	18.8	
Solar Turbine T70 Boiler-Boiler South	13.8	13.8	13.8	
Solar Turbine T70 Boiler-Boiler South 2	0.5	0.5	0.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	18.9	18.9	18.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	31.4	31.4	31.4	
Solar Turbine T70 Enclosure-T70 Encl. Roof	29.6	29.6	29.6	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	23.3	23.3	23.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	14.6	14.6	14.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	9.6	9.6	9.6	
Solar Turbine T70 SCR-SCR Unit Roof	13.3	13.3	13.3	
Solar Turbine T70 SCR-SCR Unit NE	3.8	3.8	3.8	
Solar Turbine T70 SCR-SCR Unit North	13.5	13.5	13.5	
Solar Turbine T70 SCR-SCR Unit NW	9.3	9.3	9.3	
Solar Turbine T70 SCR-SCR Unit SE	-1.5	-1.5	-1.5	
Solar Turbine T70 SCR-SCR Unit South	4.5	4.5	4.5	
Solar Turbine T70 SCR-SCR Unit SW	-0.6	-0.6	-0.6	
Tank Farm Pump 1	20.7	20.7	20.7	
Tank Farm Pump 2	18.1	18.1	18.1	
Tank Farm Pump 3	20.1	20.1	20.1	
UP Train Locomotive Delivery and Pickup	34.1		45.8	
Vaporizer Blower 1	16.0	16.0	16.0	
Vaporizer Blower 2	15.9	15.9	15.9	
Vaporizer Inlet Silencer	4.7	4.7	4.7	
Vaporizer Motor 1	10.0	10.0	10.0	
Vaporizer Motor 2	9.9	9.9	9.9	
Water Treatment Pumps P-056A&B	13.7	13.7	13.7	
XF-1502 Splitter Area 1	36.4	36.4	36.4	
XF-1502 Splitter Area 2	39.3	39.3	39.3	
XF-1504 Splitter Area 1	36.2	36.2	36.2	
XF-1504 Splitter Area 2	36.2	36.2	36.2	
XF - 1601	32.4	32.4	32.4	
XF - 1602	32.1	32.1	32.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF 304, XF 321	45.8	45.8	45.8	
XF 313, XF 314	48.8	48.8	48.8	
XF 335-1, XF 335-2	49.7	49.7	49.7	
XF 503	44.8	44.8	44.8	
XF Module 1510	41.0	41.0	41.0	
XF Module 1519	43.2	43.2	43.2	
Receiver N-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 59.9 dB(A)	Ld 7-19 dB(A)	Leq,N 59.8 dB(A)	Le 19-2
2.8-Open Intake	29.8	29.8	29.8	
2011 Track Mobile switch moving rail cars 33 cars per day	33.6			
Air Compressor C 1	45.4	45.4	45.4	
Air Compressor Pump, Motor Fan CMXF -055	19.6	19.6	19.6	
Asphalt Production	45.0	45.0	45.0	
BFW Pumps P-073A&B	15.1	15.1	15.1	
Blower F 401	48.8	48.8	48.8	
Boiler Crude Unit-Heater Opening	19.9	19.9	19.9	
Brine Transfer P-085	29.1	29.1	29.1	
Burner H301 North	32.8	32.8	32.8	
Burner H301 South	27.1	27.1	27.1	
Burner H302 North	29.0	29.0	29.0	
Burner H302 South	28.1	28.1	28.1	
Burner H303 North	29.6	29.6	29.6	
Burner H303 South	23.4	23.4	23.4	
Burner H304 North	29.1	29.1	29.1	
Burner H304 South	28.9	28.9	28.9	
Burner H305 North	30.3	30.3	30.3	
Burner H305 South	28.8	28.8	28.8	
Burner H306 North	27.2	27.2	27.2	
Burner H306 South	29.7	29.7	29.7	
Compressor House C301, C302, C 124-Comp House East 1	21.8	21.8	21.8	
Compressor House C301, C302, C 124-Comp House East 2	28.2	28.2	28.2	
Compressor House C301, C302, C 124-Comp House North	41.7	41.7	41.7	
Compressor House C301, C302, C 124-Comp House South 1	27.0	27.0	27.0	
Compressor House C301, C302, C 124-Comp House South 2	18.2	18.2	18.2	
Compressor House C301, C302, C 124-Comp House West	35.3	35.3	35.3	
Cooling Tower CT 510-CT 510 East Side	24.0	24.0	24.0	
Cooling Tower CT 510-CT 510 West Side	35.2	35.2	35.2	
Cooling Tower CT 511-CT 511 East Side	23.9	23.9	23.9	
Cooling Tower CT 511-CT 511 West Side	44.2	44.2	44.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower M 512	18.5	18.5	18.5	
Cooling Tower M 513	18.7	18.7	18.7	
Cooling Tower M 514	18.7	18.7	18.7	
Crude Plant Operation 80 dB/m^2 at 1 m	38.9	38.9	38.9	
Crude Operatoin Truck Truck Traffic	27.4	27.4	27.4	
Crude Operatoin Truck Truck Traffic LPG	27.6	27.6	27.6	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	40.1	40.1	40.1	
Crude Refinery / Renewable Fuels Truck T	26.1	25.7	25.7	
CT Y-600-CT Y-600 North	27.6	27.6	27.6	
CT Y-600-CT Y-600 South	17.9	17.9	17.9	
Deaerator Skid P-058A&B	27.3	27.3	27.3	
Exhaust Stack	41.0	41.0	41.0	
F.G. After Cooler XF-083ABC	34.7	34.7	34.7	
Fan Y-600	36.8	36.8	36.8	
FG Compressor Enclosure-FG Enclosure Roof	19.1	19.1	19.1	
FG Compressor Enclosure-FG Enclosure East	8.9	8.9	8.9	
FG Compressor Enclosure-FG Enclosure East Louver 1	-7.1	-7.1	-7.1	
FG Compressor Enclosure-FG Enclosure North	19.3	19.3	19.3	
FG Compressor Enclosure-FG Enclosure South	2.8	2.8	2.8	
FG Compressor Enclosure-FG Enclosure West	17.0	17.0	17.0	
FG Compressor Enclosure-FG Enclosure West Louver 3	4.6	4.6	4.6	
Fin Fan XF 616 - Above	20.5	20.5	20.5	
Fin Fan XF 616 - Below	31.6	31.6	31.6	
Fin Fan XF 617 - Above	19.2	19.2	19.2	
Fin Fan XF 617 - Below	29.6	29.6	29.6	
Heater # 5-Heater	15.4	15.4	15.4	
Heater # 5-Heater	11.4	11.4	11.4	
Heater # 5-Heater	11.4	11.4	11.4	
Heater H 601	21.4	21.4	21.4	
Hydro Heater H-402	29.8	29.8	29.8	
ID Fan	51.2	51.2	51.2	
ID Fan 200 HP Motor	39.4	39.4	39.4	
Incinirator Compressor & Motor	17.8	17.8	17.8	
Incinirator Fin Fan	20.6	20.6	20.6	
Lub Oil Cooler XF-061	34.3	34.3	34.3	
Misc pumps motors	24.3	24.3	24.3	
Motor & Pump P - 1502 Splitter Reflux Pu	35.6	35.6	35.6	
Motor & Pump P - 1503 Splitter Bottoms P	37.8	37.8	37.8	
Motor & Pump P - 1504 Splitter Bottoms P	37.4	37.4	37.4	
Motor & Pump P - 1507 Reactor Pump	31.2	31.2	31.2	
Motor & Pump P - 1508 Reactor Pump	32.4	32.4	32.4	
Motor & Pump P - 1511 Stabilizer Reflux	37.5	37.5	37.5	
Motor & Pump P - 1512 Stabilizer Reflux	37.4	37.4	37.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	37.8	37.8	37.8	
Motor & Pump P - 1514 Caustic Circulatin	36.5	36.5	36.5	
Motor & Pump P 120/121	33.8	33.8	33.8	
Motor & Pump P 1505 FRESH FEED PUMPS	27.5	27.5	27.5	
Motor & Pump P 1506 FRESH FEED PUMPS	28.0	28.0	28.0	
Motor & Pump P 1509 Chloride Injection P	37.8	37.8	37.8	
Motor & Pump P 1510 Chloride Injection P	37.9	37.9	37.9	
Motor & Pump P 1601 A	37.1	37.1	37.1	
Motor & Pump P 1601 B	35.9	35.9	35.9	
Motor & Pump P 1602 A	35.5	35.5	35.5	
Motor & Pump P 1602 B	36.8	36.8	36.8	
Motor & Pump P 211/212	19.0	19.0	19.0	
Motor & Pump P 215/214	20.3	20.3	20.3	
Motor & Pump P 216	19.1	19.1	19.1	
Motor & Pump P 217/218	19.3	19.3	19.3	
Motor & Pump P 300	32.8	32.8	32.8	
Motor & Pump P 301	37.4	37.4	37.4	
Motor & Pump P 302	33.0	33.0	33.0	
Motor & Pump P 303	33.3	33.3	33.3	
Motor & Pump P 305	33.7	33.7	33.7	
Motor & Pump P 306	44.7	44.7	44.7	
Motor & Pump P 307	36.8	36.8	36.8	
Motor & Pump P 309	33.5	33.5	33.5	
Motor & Pump P 312	35.6	35.6	35.6	
Motor & Pump P 313	34.4	34.4	34.4	
Motor & Pump P 315	33.1	33.1	33.1	
Motor & Pump P 316	31.8	31.8	31.8	
Motor & Pump P 317	30.9	30.9	30.9	
Motor & Pump P 318	29.2	29.2	29.2	
Motor & Pump P 319	30.9	30.9	30.9	
Motor & Pump P 327	41.9	41.9	41.9	
Motor & Pump P 328	45.5	45.5	45.5	
Motor & Pump P 329	44.5	44.5	44.5	
Motor & Pump P 451	23.0	23.0	23.0	
Motor & Pump P 453	19.6	19.6	19.6	
Motor & Pump P 454	22.4	22.4	22.4	
Motor & Pump P 457	19.8	19.8	19.8	
Motor & Pump P 458	20.4	20.4	20.4	
Motor & Pump P 459	22.4	22.4	22.4	
Motor & Pump P 56A/B	23.5	23.5	23.5	
P602 100 HP	20.6	20.6	20.6	
P603 60 HP	15.6	15.6	15.6	
P605 40 HP	16.0	16.0	16.0	
P607 15 HP	23.4	23.4	23.4	
P608 15 HP	18.1	18.1	18.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
P611 15 HP	16.4	16.4	16.4	
P614/615 20 HP	25.8	25.8	25.8	
Rail Cars Bumping 6 times in during delivery	33.5		45.3	
Scanner Blower C-084A/B	14.2	14.2	14.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	9.4	9.4	9.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	8.1	8.1	8.1	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	7.3	7.3	7.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	1.9	1.9	1.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	4.1	4.1	4.1	
Solar Turbine T70 Boiler-Boiler East 1	6.3	6.3	6.3	
Solar Turbine T70 Boiler-Boiler East 2	4.9	4.9	4.9	
Solar Turbine T70 Boiler-Boiler North 1	22.7	22.7	22.7	
Solar Turbine T70 Boiler-Boiler North 2	15.4	15.4	15.4	
Solar Turbine T70 Boiler-Boiler Roof	19.9	19.9	19.9	
Solar Turbine T70 Boiler-Boiler South	14.4	14.4	14.4	
Solar Turbine T70 Boiler-Boiler South 2	7.6	7.6	7.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	21.3	21.3	21.3	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	35.4	35.4	35.4	
Solar Turbine T70 Enclosure-T70 Encl. Roof	35.0	35.0	35.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	26.7	26.7	26.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	26.2	26.2	26.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	14.1	14.1	14.1	
Solar Turbine T70 SCR-SCR Unit Roof	13.1	13.1	13.1	
Solar Turbine T70 SCR-SCR Unit NE	5.7	5.7	5.7	
Solar Turbine T70 SCR-SCR Unit North	12.6	12.6	12.6	
Solar Turbine T70 SCR-SCR Unit NW	10.5	10.5	10.5	
Solar Turbine T70 SCR-SCR Unit SE	-0.4	-0.4	-0.4	
Solar Turbine T70 SCR-SCR Unit South	5.2	5.2	5.2	
Solar Turbine T70 SCR-SCR Unit SW	1.9	1.9	1.9	
Tank Farm Pump 1	19.2	19.2	19.2	
Tank Farm Pump 2	19.7	19.7	19.7	
Tank Farm Pump 3	20.4	20.4	20.4	
UP Train Locomotive Delivery and Pickup	33.9		45.7	
Vaporizer Blower 1	15.3	15.3	15.3	
Vaporizer Blower 2	15.4	15.4	15.4	
Vaporizer Inlet Silencer	9.1	9.1	9.1	
Vaporizer Motor 1	9.7	9.7	9.7	
Vaporizer Motor 2	9.9	9.9	9.9	
Water Treatment Pumps P-056A&B	19.4	19.4	19.4	
XF-1502 Splitter Area 1	42.0	42.0	42.0	
XF-1502 Splitter Area 2	42.9	42.9	42.9	
XF-1504 Splitter Area 1	42.5	42.5	42.5	
XF-1504 Splitter Area 2	42.5	42.5	42.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF - 1601	36.7	36.7	36.7	
XF - 1602	36.6	36.6	36.6	
XF 304, XF 321	45.2	45.2	45.2	
XF 313, XF 314	45.0	45.0	45.0	
XF 335-1, XF 335-2	49.5	49.5	49.5	
XF 503	44.4	44.4	44.4	
XF Module 1510	45.5	45.5	45.5	
XF Module 1519	46.5	46.5	46.5	
Receiver N-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 53.6 dB(A)	Ld 7-19 dB(A)	Leq,N 53.6 dB(A)	Le 19-2
2.8-Open Intake	24.6	24.6	24.6	
2011 Track Mobile switch moving rail cars 33 cars per day	26.9			
Air Compressor C 1	39.5	39.5	39.5	
Air Compressor Pump, Motor Fan CMXF -055	18.3	18.3	18.3	
Asphalt Production	36.1	36.1	36.1	
BFW Pumps P-073A&B	15.6	15.6	15.6	
Blower F 401	40.3	40.3	40.3	
Boiler Crude Unit-Heater Opening	16.3	16.3	16.3	
Brine Transfer P-085	16.3	16.3	16.3	
Burner H301 North	27.2	27.2	27.2	
Burner H301 South	23.2	23.2	23.2	
Burner H302 North	26.9	26.9	26.9	
Burner H302 South	27.2	27.2	27.2	
Burner H303 North	28.1	28.1	28.1	
Burner H303 South	21.9	21.9	21.9	
Burner H304 North	29.5	29.5	29.5	
Burner H304 South	26.1	26.1	26.1	
Burner H305 North	32.0	32.0	32.0	
Burner H305 South	26.6	26.6	26.6	
Burner H306 North	27.3	27.3	27.3	
Burner H306 South	25.5	25.5	25.5	
Compressor House C301, C302, C 124-Comp House East 1	31.6	31.6	31.6	
Compressor House C301, C302, C 124-Comp House East 2	29.6	29.6	29.6	
Compressor House C301, C302, C 124-Comp House North	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House South 1	24.5	24.5	24.5	
Compressor House C301, C302, C 124-Comp House South 2	18.2	18.2	18.2	
Compressor House C301, C302, C 124-Comp House West	23.1	23.1	23.1	
Cooling Tower CT 510-CT 510 East Side	16.8	16.8	16.8	
Cooling Tower CT 510-CT 510 West Side	35.6	35.6	35.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower CT 511-CT 511 East Side	18.2	18.2	18.2	
Cooling Tower CT 511-CT 511 West Side	39.3	39.3	39.3	
Cooling Tower M 512	17.3	17.3	17.3	
Cooling Tower M 513	17.5	17.5	17.5	
Cooling Tower M 514	17.2	17.2	17.2	
Crude Plant Operation 80 dB/m^2 at 1 m	38.9	38.9	38.9	
Crude Operatoin Truck Truck Traffic	14.5	14.5	14.5	
Crude Operatoin Truck Truck Traffic LPG	24.8	24.8	24.8	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	40.1	40.1	40.1	
Crude Refinery / Renewable Fuels Truck T	24.7	24.2	24.2	
CT Y-600-CT Y-600 North	18.3	18.3	18.3	
CT Y-600-CT Y-600 South	14.5	14.5	14.5	
Deaerator Skid P-058A&B	20.9	20.9	20.9	
Exhaust Stack	33.2	33.2	33.2	
F.G. After Cooler XF-083ABC	23.5	23.5	23.5	
Fan Y-600	25.6	25.6	25.6	
FG Compressor Enclosure-FG Enclosure Roof	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure East	4.7	4.7	4.7	
FG Compressor Enclosure-FG Enclosure East Louver 1	-7.3	-7.3	-7.3	
FG Compressor Enclosure-FG Enclosure North	10.0	10.0	10.0	
FG Compressor Enclosure-FG Enclosure South	-2.1	-2.1	-2.1	
FG Compressor Enclosure-FG Enclosure West	7.4	7.4	7.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	-4.9	-4.9	-4.9	
Fin Fan XF 616 - Above	14.6	14.6	14.6	
Fin Fan XF 616 - Below	26.0	26.0	26.0	
Fin Fan XF 617 - Above	11.8	11.8	11.8	
Fin Fan XF 617 - Below	22.3	22.3	22.3	
Heater # 5-Heater	12.6	12.6	12.6	
Heater # 5-Heater	10.5	10.5	10.5	
Heater # 5-Heater	8.8	8.8	8.8	
Heater H 601	13.0	13.0	13.0	
Hydro Heater H-402	27.9	27.9	27.9	
ID Fan	39.5	39.5	39.5	
ID Fan 200 HP Motor	30.2	30.2	30.2	
Incinirator Compressor & Motor	17.2	17.2	17.2	
Incinirator Fin Fan	16.4	16.4	16.4	
Lub Oil Cooler XF-061	22.8	22.8	22.8	
Misc pumps motors	30.3	30.3	30.3	
Motor & Pump P - 1502 Splitter Reflux Pu	30.4	30.4	30.4	
Motor & Pump P - 1503 Splitter Bottoms P	30.6	30.6	30.6	
Motor & Pump P - 1504 Splitter Bottoms P	30.7	30.7	30.7	
Motor & Pump P - 1507 Reactor Pump	30.4	30.4	30.4	
Motor & Pump P - 1508 Reactor Pump	30.0	30.0	30.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	20.1	20.1	20.1	
Motor & Pump P - 1512 Stabilizer Reflux	29.5	29.5	29.5	
Motor & Pump P - 1513 Caustic Circulatin	30.7	30.7	30.7	
Motor & Pump P - 1514 Caustic Circulatin	29.7	29.7	29.7	
Motor & Pump P 120/121	26.6	26.6	26.6	
Motor & Pump P 1505 FRESH FEED PUMPS	32.3	32.3	32.3	
Motor & Pump P 1506 FRESH FEED PUMPS	32.3	32.3	32.3	
Motor & Pump P 1509 Chloride Injection P	27.9	27.9	27.9	
Motor & Pump P 1510 Chloride Injection P	28.2	28.2	28.2	
Motor & Pump P 1601 A	35.2	35.2	35.2	
Motor & Pump P 1601 B	31.4	31.4	31.4	
Motor & Pump P 1602 A	32.2	32.2	32.2	
Motor & Pump P 1602 B	36.2	36.2	36.2	
Motor & Pump P 211/212	16.8	16.8	16.8	
Motor & Pump P 215/214	18.2	18.2	18.2	
Motor & Pump P 216	23.2	23.2	23.2	
Motor & Pump P 217/218	16.3	16.3	16.3	
Motor & Pump P 300	26.2	26.2	26.2	
Motor & Pump P 301	30.8	30.8	30.8	
Motor & Pump P 302	26.5	26.5	26.5	
Motor & Pump P 303	27.2	27.2	27.2	
Motor & Pump P 305	27.7	27.7	27.7	
Motor & Pump P 306	42.3	42.3	42.3	
Motor & Pump P 307	30.1	30.1	30.1	
Motor & Pump P 309	27.5	27.5	27.5	
Motor & Pump P 312	27.5	27.5	27.5	
Motor & Pump P 313	27.5	27.5	27.5	
Motor & Pump P 315	28.7	28.7	28.7	
Motor & Pump P 316	32.0	32.0	32.0	
Motor & Pump P 317	31.7	31.7	31.7	
Motor & Pump P 318	26.1	26.1	26.1	
Motor & Pump P 319	26.2	26.2	26.2	
Motor & Pump P 327	38.4	38.4	38.4	
Motor & Pump P 328	39.6	39.6	39.6	
Motor & Pump P 329	39.1	39.1	39.1	
Motor & Pump P 451	18.0	18.0	18.0	
Motor & Pump P 453	16.4	16.4	16.4	
Motor & Pump P 454	23.5	23.5	23.5	
Motor & Pump P 457	16.5	16.5	16.5	
Motor & Pump P 458	17.5	17.5	17.5	
Motor & Pump P 459	23.5	23.5	23.5	
Motor & Pump P 56A/B	18.7	18.7	18.7	
P602 100 HP	19.4	19.4	19.4	
P603 60 HP	12.7	12.7	12.7	
P605 40 HP	12.6	12.6	12.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
P607 15 HP	11.5	11.5	11.5	
P608 15 HP	11.5	11.5	11.5	
P611 15 HP	11.5	11.5	11.5	
P614/615 20 HP	18.7	18.7	18.7	
Rail Cars Bumping 6 times in during delivery	27.4		39.2	
Scanner Blower C-084A/B	14.4	14.4	14.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-1.1	-1.1	-1.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-2.3	-2.3	-2.3	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-3.0	-3.0	-3.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-3.4	-3.4	-3.4	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-3.7	-3.7	-3.7	
Solar Turbine T70 Boiler-Boiler East 1	1.8	1.8	1.8	
Solar Turbine T70 Boiler-Boiler East 2	0.4	0.4	0.4	
Solar Turbine T70 Boiler-Boiler North 1	15.0	15.0	15.0	
Solar Turbine T70 Boiler-Boiler North 2	6.0	6.0	6.0	
Solar Turbine T70 Boiler-Boiler Roof	11.6	11.6	11.6	
Solar Turbine T70 Boiler-Boiler South	11.8	11.8	11.8	
Solar Turbine T70 Boiler-Boiler South 2	3.0	3.0	3.0	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	17.4	17.4	17.4	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	25.3	25.3	25.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	22.2	22.2	22.2	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	22.8	22.8	22.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	16.1	16.1	16.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	11.6	11.6	11.6	
Solar Turbine T70 SCR-SCR Unit Roof	4.7	4.7	4.7	
Solar Turbine T70 SCR-SCR Unit NE	-1.8	-1.8	-1.8	
Solar Turbine T70 SCR-SCR Unit North	4.7	4.7	4.7	
Solar Turbine T70 SCR-SCR Unit NW	-0.5	-0.5	-0.5	
Solar Turbine T70 SCR-SCR Unit SE	-4.0	-4.0	-4.0	
Solar Turbine T70 SCR-SCR Unit South	1.6	1.6	1.6	
Solar Turbine T70 SCR-SCR Unit SW	-3.4	-3.4	-3.4	
Tank Farm Pump 1	13.6	13.6	13.6	
Tank Farm Pump 2	14.7	14.7	14.7	
Tank Farm Pump 3	14.7	14.7	14.7	
UP Train Locomotive Delivery and Pickup	29.4		41.2	
Vaporizer Blower 1	12.7	12.7	12.7	
Vaporizer Blower 2	12.7	12.7	12.7	
Vaporizer Inlet Silencer	-0.7	-0.7	-0.7	
Vaporizer Motor 1	7.3	7.3	7.3	
Vaporizer Motor 2	7.3	7.3	7.3	
Water Treatment Pumps P-056A&B	12.3	12.3	12.3	
XF-1502 Splitter Area 1	36.7	36.7	36.7	
XF-1502 Splitter Area 2	36.5	36.5	36.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF-1504 Splitter Area 1	24.0	24.0	24.0	
XF-1504 Splitter Area 2	28.3	28.3	28.3	
XF - 1601	20.8	20.8	20.8	
XF - 1602	32.5	32.5	32.5	
XF 304, XF 321	38.3	38.3	38.3	
XF 313, XF 314	38.2	38.2	38.2	
XF 335-1, XF 335-2	41.7	41.7	41.7	
XF 503	34.5	34.5	34.5	
XF Module 1510	40.1	40.1	40.1	
XF Module 1519	41.0	41.0	41.0	
Receiver N-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 67.8 dB(A)	Ld 7-19 dB(A)	Leq,N 67.8 dB(A)	Le 19-2
2.8-Open Intake	33.2	33.2	33.2	
2011 Track Mobile switch moving rail cars 33 cars per day	36.5			
Air Compressor C 1	61.7	61.7	61.7	
Air Compressor Pump, Motor Fan CMXF -055	24.6	24.6	24.6	
Asphalt Production	38.0	38.0	38.0	
BFW Pumps P-073A&B	20.9	20.9	20.9	
Blower F 401	55.8	55.8	55.8	
Boiler Crude Unit-Heater Opening	19.2	19.2	19.2	
Brine Transfer P-085	28.2	28.2	28.2	
Burner H301 North	50.3	50.3	50.3	
Burner H301 South	35.6	35.6	35.6	
Burner H302 North	48.9	48.9	48.9	
Burner H302 South	41.2	41.2	41.2	
Burner H303 North	39.7	39.7	39.7	
Burner H303 South	30.5	30.5	30.5	
Burner H304 North	42.5	42.5	42.5	
Burner H304 South	32.0	32.0	32.0	
Burner H305 North	45.0	45.0	45.0	
Burner H305 South	39.6	39.6	39.6	
Burner H306 North	42.4	42.4	42.4	
Burner H306 South	41.0	41.0	41.0	
Compressor House C301, C302, C 124-Comp House East 1	40.7	40.7	40.7	
Compressor House C301, C302, C 124-Comp House East 2	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House North	50.0	50.0	50.0	
Compressor House C301, C302, C 124-Comp House South 1	31.5	31.5	31.5	
Compressor House C301, C302, C 124-Comp House South 2	25.4	25.4	25.4	
Compressor House C301, C302, C 124-Comp House West	24.4	24.4	24.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower CT 510-CT 510 East Side	25.1	25.1	25.1	
Cooling Tower CT 510-CT 510 West Side	47.3	47.3	47.3	
Cooling Tower CT 511-CT 511 East Side	26.8	26.8	26.8	
Cooling Tower CT 511-CT 511 West Side	46.3	46.3	46.3	
Cooling Tower M 512	24.8	24.8	24.8	
Cooling Tower M 513	25.9	25.9	25.9	
Cooling Tower M 514	24.4	24.4	24.4	
Crude Plant Operation 80 dB/m^2 at 1 m	36.3	36.3	36.3	
Crude Operatoin Truck Truck Traffic	29.4	29.4	29.4	
Crude Operatoin Truck Truck Traffic LPG	34.8	34.8	34.8	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	36.5	36.5	36.5	
Crude Refinery / Renewable Fuels Truck T	26.1	25.6	25.6	
CT Y-600-CT Y-600 North	20.6	20.6	20.6	
CT Y-600-CT Y-600 South	17.4	17.4	17.4	
Deaerator Skid P-058A&B	34.1	34.1	34.1	
Exhaust Stack	40.9	40.9	40.9	
F.G. After Cooler XF-083ABC	36.5	36.5	36.5	
Fan Y-600	27.4	27.4	27.4	
FG Compressor Enclosure-FG Enclosure Roof	19.6	19.6	19.6	
FG Compressor Enclosure-FG Enclosure East	8.8	8.8	8.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	-5.5	-5.5	-5.5	
FG Compressor Enclosure-FG Enclosure North	19.7	19.7	19.7	
FG Compressor Enclosure-FG Enclosure South	4.8	4.8	4.8	
FG Compressor Enclosure-FG Enclosure West	20.1	20.1	20.1	
FG Compressor Enclosure-FG Enclosure West Louver 3	5.8	5.8	5.8	
Fin Fan XF 616 - Above	14.4	14.4	14.4	
Fin Fan XF 616 - Below	27.8	27.8	27.8	
Fin Fan XF 617 - Above	12.8	12.8	12.8	
Fin Fan XF 617 - Below	23.3	23.3	23.3	
Heater # 5-Heater	15.0	15.0	15.0	
Heater # 5-Heater	12.7	12.7	12.7	
Heater # 5-Heater	12.5	12.5	12.5	
Heater H 601	14.7	14.7	14.7	
Hydro Heater H-402	40.5	40.5	40.5	
ID Fan	47.3	47.3	47.3	
ID Fan 200 HP Motor	35.1	35.1	35.1	
Incinirator Compressor & Motor	16.1	16.1	16.1	
Incinirator Fin Fan	19.2	19.2	19.2	
Lub Oil Cooler XF-061	32.0	32.0	32.0	
Misc pumps motors	26.2	26.2	26.2	
Motor & Pump P - 1502 Splitter Reflux Pu	46.6	46.6	46.6	
Motor & Pump P - 1503 Splitter Bottoms P	46.0	46.0	46.0	
Motor & Pump P - 1504 Splitter Bottoms P	45.9	45.9	45.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P - 1507 Reactor Pump	46.4	46.4	46.4	
Motor & Pump P - 1508 Reactor Pump	46.2	46.2	46.2	
Motor & Pump P - 1511 Stabilizer Reflux	32.3	32.3	32.3	
Motor & Pump P - 1512 Stabilizer Reflux	43.5	43.5	43.5	
Motor & Pump P - 1513 Caustic Circulatin	45.9	45.9	45.9	
Motor & Pump P - 1514 Caustic Circulatin	42.9	42.9	42.9	
Motor & Pump P 120/121	49.1	49.1	49.1	
Motor & Pump P 1505 FRESH FEED PUMPS	45.9	45.9	45.9	
Motor & Pump P 1506 FRESH FEED PUMPS	46.0	46.0	46.0	
Motor & Pump P 1509 Chloride Injection P	40.0	40.0	40.0	
Motor & Pump P 1510 Chloride Injection P	39.5	39.5	39.5	
Motor & Pump P 1601 A	37.5	37.5	37.5	
Motor & Pump P 1601 B	35.0	35.0	35.0	
Motor & Pump P 1602 A	31.5	31.5	31.5	
Motor & Pump P 1602 B	38.1	38.1	38.1	
Motor & Pump P 211/212	28.7	28.7	28.7	
Motor & Pump P 215/214	28.4	28.4	28.4	
Motor & Pump P 216	33.0	33.0	33.0	
Motor & Pump P 217/218	27.5	27.5	27.5	
Motor & Pump P 300	44.9	44.9	44.9	
Motor & Pump P 301	52.4	52.4	52.4	
Motor & Pump P 302	42.1	42.1	42.1	
Motor & Pump P 303	40.9	40.9	40.9	
Motor & Pump P 305	40.6	40.6	40.6	
Motor & Pump P 306	54.9	54.9	54.9	
Motor & Pump P 307	52.4	52.4	52.4	
Motor & Pump P 309	40.2	40.2	40.2	
Motor & Pump P 312	39.7	39.7	39.7	
Motor & Pump P 313	39.4	39.4	39.4	
Motor & Pump P 315	39.9	39.9	39.9	
Motor & Pump P 316	39.7	39.7	39.7	
Motor & Pump P 317	39.7	39.7	39.7	
Motor & Pump P 318	37.3	37.3	37.3	
Motor & Pump P 319	37.7	37.7	37.7	
Motor & Pump P 327	51.1	51.1	51.1	
Motor & Pump P 328	53.3	53.3	53.3	
Motor & Pump P 329	52.3	52.3	52.3	
Motor & Pump P 451	27.7	27.7	27.7	
Motor & Pump P 453	25.9	25.9	25.9	
Motor & Pump P 454	33.8	33.8	33.8	
Motor & Pump P 457	26.3	26.3	26.3	
Motor & Pump P 458	26.4	26.4	26.4	
Motor & Pump P 459	33.8	33.8	33.8	
Motor & Pump P 56A/B	35.2	35.2	35.2	
P602 100 HP	17.3	17.3	17.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
P603 60 HP	13.7	13.7	13.7	
P605 40 HP	13.7	13.7	13.7	
P607 15 HP	11.0	11.0	11.0	
P608 15 HP	10.5	10.5	10.5	
P611 15 HP	11.0	11.0	11.0	
P614/615 20 HP	13.5	13.5	13.5	
Rail Cars Bumping 6 times in during delivery	36.9		48.7	
Scanner Blower C-084A/B	17.6	17.6	17.6	
Solar Turbine T70 2nd Boiler-2nd Boiler North	9.7	9.7	9.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	9.6	9.6	9.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	7.4	7.4	7.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	3.1	3.1	3.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	2.8	2.8	2.8	
Solar Turbine T70 Boiler-Boiler East 1	8.3	8.3	8.3	
Solar Turbine T70 Boiler-Boiler East 2	7.0	7.0	7.0	
Solar Turbine T70 Boiler-Boiler North 1	25.3	25.3	25.3	
Solar Turbine T70 Boiler-Boiler North 2	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler Roof	23.2	23.2	23.2	
Solar Turbine T70 Boiler-Boiler South	18.4	18.4	18.4	
Solar Turbine T70 Boiler-Boiler South 2	9.6	9.6	9.6	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	24.1	24.1	24.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	35.8	35.8	35.8	
Solar Turbine T70 Enclosure-T70 Encl. Roof	34.7	34.7	34.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	29.1	29.1	29.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	25.3	25.3	25.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	16.5	16.5	16.5	
Solar Turbine T70 SCR-SCR Unit Roof	16.0	16.0	16.0	
Solar Turbine T70 SCR-SCR Unit NE	8.1	8.1	8.1	
Solar Turbine T70 SCR-SCR Unit North	14.7	14.7	14.7	
Solar Turbine T70 SCR-SCR Unit NW	9.3	9.3	9.3	
Solar Turbine T70 SCR-SCR Unit SE	2.6	2.6	2.6	
Solar Turbine T70 SCR-SCR Unit South	8.3	8.3	8.3	
Solar Turbine T70 SCR-SCR Unit SW	2.8	2.8	2.8	
Tank Farm Pump 1	19.4	19.4	19.4	
Tank Farm Pump 2	17.2	17.2	17.2	
Tank Farm Pump 3	18.8	18.8	18.8	
UP Train Locomotive Delivery and Pickup	33.6		45.4	
Vaporizer Blower 1	19.4	19.4	19.4	
Vaporizer Blower 2	19.3	19.3	19.3	
Vaporizer Inlet Silencer	10.5	10.5	10.5	
Vaporizer Motor 1	13.3	13.3	13.3	
Vaporizer Motor 2	13.3	13.3	13.3	
Water Treatment Pumps P-056A&B	19.2	19.2	19.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF-1502 Splitter Area 1	48.5	48.5	48.5	
XF-1502 Splitter Area 2	48.4	48.4	48.4	
XF-1504 Splitter Area 1	47.9	47.9	47.9	
XF-1504 Splitter Area 2	47.7	47.7	47.7	
XF - 1601	39.0	39.0	39.0	
XF - 1602	41.6	41.6	41.6	
XF 304, XF 321	51.7	51.7	51.7	
XF 313, XF 314	55.1	55.1	55.1	
XF 335-1, XF 335-2	54.9	54.9	54.9	
XF 503	53.4	53.4	53.4	
XF Module 1510	52.4	52.4	52.4	
XF Module 1519	53.5	53.5	53.5	
Receiver N-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 60.0 dB(A)	Ld 7-19 dB(A)	Leq,N 60.0 dB(A)	Le 19-2
2.8-Open Intake	37.3	37.3	37.3	
2011 Track Mobile switch moving rail cars 33 cars per day	29.6			
Air Compressor C 1	45.9	45.9	45.9	
Air Compressor Pump, Motor Fan CMXF -055	22.1	22.1	22.1	
Asphalt Production	50.1	50.1	50.1	
BFW Pumps P-073A&B	19.0	19.0	19.0	
Blower F 401	44.6	44.6	44.6	
Boiler Crude Unit-Heater Opening	24.7	24.7	24.7	
Brine Transfer P-085	20.3	20.3	20.3	
Burner H301 North	45.4	45.4	45.4	
Burner H301 South	32.0	32.0	32.0	
Burner H302 North	47.0	47.0	47.0	
Burner H302 South	33.0	33.0	33.0	
Burner H303 North	38.5	38.5	38.5	
Burner H303 South	32.6	32.6	32.6	
Burner H304 North	31.0	31.0	31.0	
Burner H304 South	32.8	32.8	32.8	
Burner H305 North	33.5	33.5	33.5	
Burner H305 South	25.0	25.0	25.0	
Burner H306 North	39.4	39.4	39.4	
Burner H306 South	22.6	22.6	22.6	
Compressor House C301, C302, C 124-Comp House East 1	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House East 2	31.5	31.5	31.5	
Compressor House C301, C302, C 124-Comp House North	41.8	41.8	41.8	
Compressor House C301, C302, C 124-Comp House South 1	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House South 2	22.1	22.1	22.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Compressor House C301, C302, C 124-Comp House West	17.3	17.3	17.3	
Cooling Tower CT 510-CT 510 East Side	31.8	31.8	31.8	
Cooling Tower CT 510-CT 510 West Side	18.6	18.6	18.6	
Cooling Tower CT 511-CT 511 East Side	38.8	38.8	38.8	
Cooling Tower CT 511-CT 511 West Side	21.7	21.7	21.7	
Cooling Tower M 512	22.0	22.0	22.0	
Cooling Tower M 513	22.8	22.8	22.8	
Cooling Tower M 514	22.1	22.1	22.1	
Crude Plant Operation 80 dB/m^2 at 1 m	38.2	38.2	38.2	
Crude Operatoin Truck Truck Traffic	29.6	29.6	29.6	
Crude Operatoin Truck Truck Traffic LPG	41.3	41.3	41.3	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	39.3	39.3	39.3	
Crude Refinery / Renewable Fuels Truck T	33.5	33.0	33.0	
CT Y-600-CT Y-600 North	33.3	33.3	33.3	
CT Y-600-CT Y-600 South	19.7	19.7	19.7	
Deaerator Skid P-058A&B	18.7	18.7	18.7	
Exhaust Stack	31.7	31.7	31.7	
F.G. After Cooler XF-083ABC	33.9	33.9	33.9	
Fan Y-600	36.8	36.8	36.8	
FG Compressor Enclosure-FG Enclosure Roof	21.7	21.7	21.7	
FG Compressor Enclosure-FG Enclosure East	11.2	11.2	11.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	-2.9	-2.9	-2.9	
FG Compressor Enclosure-FG Enclosure North	20.9	20.9	20.9	
FG Compressor Enclosure-FG Enclosure South	5.2	5.2	5.2	
FG Compressor Enclosure-FG Enclosure West	18.8	18.8	18.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	3.7	3.7	3.7	
Fin Fan XF 616 - Above	21.5	21.5	21.5	
Fin Fan XF 616 - Below	36.7	36.7	36.7	
Fin Fan XF 617 - Above	16.9	16.9	16.9	
Fin Fan XF 617 - Below	31.2	31.2	31.2	
Heater # 5-Heater	20.1	20.1	20.1	
Heater # 5-Heater	17.4	17.4	17.4	
Heater # 5-Heater	14.6	14.6	14.6	
Heater H 601	26.1	26.1	26.1	
Hydro Heater H-402	29.0	29.0	29.0	
ID Fan	44.9	44.9	44.9	
ID Fan 200 HP Motor	33.5	33.5	33.5	
Incinirator Compressor & Motor	17.6	17.6	17.6	
Incinirator Fin Fan	18.3	18.3	18.3	
Lub Oil Cooler XF-061	26.9	26.9	26.9	
Misc pumps motors	41.6	41.6	41.6	
Motor & Pump P - 1502 Splitter Reflux Pu	27.6	27.6	27.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	27.5	27.5	27.5	
Motor & Pump P - 1504 Splitter Bottoms P	26.0	26.0	26.0	
Motor & Pump P - 1507 Reactor Pump	25.0	25.0	25.0	
Motor & Pump P - 1508 Reactor Pump	24.6	24.6	24.6	
Motor & Pump P - 1511 Stabilizer Reflux	27.7	27.7	27.7	
Motor & Pump P - 1512 Stabilizer Reflux	26.3	26.3	26.3	
Motor & Pump P - 1513 Caustic Circulatin	24.8	24.8	24.8	
Motor & Pump P - 1514 Caustic Circulatin	25.8	25.8	25.8	
Motor & Pump P 120/121	35.1	35.1	35.1	
Motor & Pump P 1505 FRESH FEED PUMPS	28.6	28.6	28.6	
Motor & Pump P 1506 FRESH FEED PUMPS	25.9	25.9	25.9	
Motor & Pump P 1509 Chloride Injection P	26.6	26.6	26.6	
Motor & Pump P 1510 Chloride Injection P	26.7	26.7	26.7	
Motor & Pump P 1601 A	26.3	26.3	26.3	
Motor & Pump P 1601 B	26.4	26.4	26.4	
Motor & Pump P 1602 A	26.1	26.1	26.1	
Motor & Pump P 1602 B	26.0	26.0	26.0	
Motor & Pump P 211/212	22.5	22.5	22.5	
Motor & Pump P 215/214	22.0	22.0	22.0	
Motor & Pump P 216	24.1	24.1	24.1	
Motor & Pump P 217/218	22.7	22.7	22.7	
Motor & Pump P 300	35.1	35.1	35.1	
Motor & Pump P 301	40.6	40.6	40.6	
Motor & Pump P 302	36.2	36.2	36.2	
Motor & Pump P 303	36.9	36.9	36.9	
Motor & Pump P 305	35.4	35.4	35.4	
Motor & Pump P 306	43.2	43.2	43.2	
Motor & Pump P 307	46.4	46.4	46.4	
Motor & Pump P 309	35.4	35.4	35.4	
Motor & Pump P 312	32.4	32.4	32.4	
Motor & Pump P 313	32.8	32.8	32.8	
Motor & Pump P 315	30.4	30.4	30.4	
Motor & Pump P 316	30.4	30.4	30.4	
Motor & Pump P 317	30.6	30.6	30.6	
Motor & Pump P 318	27.9	27.9	27.9	
Motor & Pump P 319	31.4	31.4	31.4	
Motor & Pump P 327	46.3	46.3	46.3	
Motor & Pump P 328	48.3	48.3	48.3	
Motor & Pump P 329	46.2	46.2	46.2	
Motor & Pump P 451	20.2	20.2	20.2	
Motor & Pump P 453	22.2	22.2	22.2	
Motor & Pump P 454	20.0	20.0	20.0	
Motor & Pump P 457	22.2	22.2	22.2	
Motor & Pump P 458	20.3	20.3	20.3	
Motor & Pump P 459	19.5	19.5	19.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 56A/B	23.7	23.7	23.7	
P602 100 HP	28.4	28.4	28.4	
P603 60 HP	32.5	32.5	32.5	
P605 40 HP	31.1	31.1	31.1	
P607 15 HP	26.8	26.8	26.8	
P608 15 HP	26.0	26.0	26.0	
P611 15 HP	23.9	23.9	23.9	
P614/615 20 HP	26.7	26.7	26.7	
Rail Cars Bumping 6 times in during delivery	30.5		42.3	
Scanner Blower C-084A/B	18.9	18.9	18.9	
Solar Turbine T70 2nd Boiler-2nd Boiler North	1.5	1.5	1.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	0.1	0.1	0.1	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-1.0	-1.0	-1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	0.0	0.0	0.0	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	0.3	0.3	0.3	
Solar Turbine T70 Boiler-Boiler East 1	5.9	5.9	5.9	
Solar Turbine T70 Boiler-Boiler East 2	7.0	7.0	7.0	
Solar Turbine T70 Boiler-Boiler North 1	17.8	17.8	17.8	
Solar Turbine T70 Boiler-Boiler North 2	9.5	9.5	9.5	
Solar Turbine T70 Boiler-Boiler Roof	13.5	13.5	13.5	
Solar Turbine T70 Boiler-Boiler South	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler South 2	7.2	7.2	7.2	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	25.5	25.5	25.5	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	35.1	35.1	35.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	33.7	33.7	33.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	30.0	30.0	30.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	20.6	20.6	20.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	17.0	17.0	17.0	
Solar Turbine T70 SCR-SCR Unit Roof	5.8	5.8	5.8	
Solar Turbine T70 SCR-SCR Unit NE	0.8	0.8	0.8	
Solar Turbine T70 SCR-SCR Unit North	7.2	7.2	7.2	
Solar Turbine T70 SCR-SCR Unit NW	2.0	2.0	2.0	
Solar Turbine T70 SCR-SCR Unit SE	-0.1	-0.1	-0.1	
Solar Turbine T70 SCR-SCR Unit South	5.4	5.4	5.4	
Solar Turbine T70 SCR-SCR Unit SW	0.3	0.3	0.3	
Tank Farm Pump 1	24.3	24.3	24.3	
Tank Farm Pump 2	25.5	25.5	25.5	
Tank Farm Pump 3	25.8	25.8	25.8	
UP Train Locomotive Delivery and Pickup	30.1		41.9	
Vaporizer Blower 1	15.9	15.9	15.9	
Vaporizer Blower 2	16.1	16.1	16.1	
Vaporizer Inlet Silencer	2.9	2.9	2.9	
Vaporizer Motor 1	10.5	10.5	10.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Vaporizer Motor 2	10.6	10.6	10.6	
Water Treatment Pumps P-056A&B	16.8	16.8	16.8	
XF-1502 Splitter Area 1	31.3	31.3	31.3	
XF-1502 Splitter Area 2	32.7	32.7	32.7	
XF-1504 Splitter Area 1	33.0	33.0	33.0	
XF-1504 Splitter Area 2	33.2	33.2	33.2	
XF - 1601	28.7	28.7	28.7	
XF - 1602	34.1	34.1	34.1	
XF 304, XF 321	48.7	48.7	48.7	
XF 313, XF 314	49.6	49.6	49.6	
XF 335-1, XF 335-2	50.4	50.4	50.4	
XF 503	40.3	40.3	40.3	
XF Module 1510	33.8	33.8	33.8	
XF Module 1519	34.4	34.4	34.4	
Receiver N-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 56.5 dB(A)	Ld 7-19 dB(A)	Leq,N 56.5 dB(A)	Le 19-2
2.8-Open Intake	29.2	29.2	29.2	
2011 Track Mobile switch moving rail cars 33 cars per day	25.4			
Air Compressor C 1	37.2	37.2	37.2	
Air Compressor Pump, Motor Fan CMXF -055	21.9	21.9	21.9	
Asphalt Production	46.2	46.2	46.2	
BFW Pumps P-073A&B	16.7	16.7	16.7	
Blower F 401	37.4	37.4	37.4	
Boiler Crude Unit-Heater Opening	28.4	28.4	28.4	
Brine Transfer P-085	17.0	17.0	17.0	
Burner H301 North	33.2	33.2	33.2	
Burner H301 South	21.9	21.9	21.9	
Burner H302 North	27.4	27.4	27.4	
Burner H302 South	19.8	19.8	19.8	
Burner H303 North	24.7	24.7	24.7	
Burner H303 South	24.6	24.6	24.6	
Burner H304 North	23.9	23.9	23.9	
Burner H304 South	20.1	20.1	20.1	
Burner H305 North	23.7	23.7	23.7	
Burner H305 South	19.5	19.5	19.5	
Burner H306 North	22.4	22.4	22.4	
Burner H306 South	19.1	19.1	19.1	
Compressor House C301, C302, C 124-Comp House East 1	29.3	29.3	29.3	
Compressor House C301, C302, C 124-Comp House East 2	26.0	26.0	26.0	
Compressor House C301, C302, C 124-Comp House North	36.2	36.2	36.2	
Compressor House C301, C302, C 124-Comp House South 1	24.9	24.9	24.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Compressor House C301, C302, C 124-Comp House South 2	17.9	17.9	17.9	
Compressor House C301, C302, C 124-Comp House West	14.1	14.1	14.1	
Cooling Tower CT 510-CT 510 East Side	24.8	24.8	24.8	
Cooling Tower CT 510-CT 510 West Side	11.6	11.6	11.6	
Cooling Tower CT 511-CT 511 East Side	29.7	29.7	29.7	
Cooling Tower CT 511-CT 511 West Side	18.8	18.8	18.8	
Cooling Tower M 512	17.0	17.0	17.0	
Cooling Tower M 513	16.9	16.9	16.9	
Cooling Tower M 514	17.0	17.0	17.0	
Crude Plant Operation 80 dB/m^2 at 1 m	49.8	49.8	49.8	
Crude Operatoin Truck Truck Traffic	32.2	32.2	32.2	
Crude Operatoin Truck Truck Traffic LPG	42.2	42.2	42.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	50.1	50.1	50.1	
Crude Refinery / Renewable Fuels Truck T	42.8	42.2	44.6	
CT Y-600-CT Y-600 North	36.4	36.4	36.4	
CT Y-600-CT Y-600 South	21.4	21.4	21.4	
Deaerator Skid P-058A&B	17.2	17.2	17.2	
Exhaust Stack	32.0	32.0	32.0	
F.G. After Cooler XF-083ABC	26.7	26.7	26.7	
Fan Y-600	37.0	37.0	37.0	
FG Compressor Enclosure-FG Enclosure Roof	15.1	15.1	15.1	
FG Compressor Enclosure-FG Enclosure East	13.2	13.2	13.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	-1.9	-1.9	-1.9	
FG Compressor Enclosure-FG Enclosure North	15.9	15.9	15.9	
FG Compressor Enclosure-FG Enclosure South	2.8	2.8	2.8	
FG Compressor Enclosure-FG Enclosure West	9.0	9.0	9.0	
FG Compressor Enclosure-FG Enclosure West Louver 3	-3.5	-3.5	-3.5	
Fin Fan XF 616 - Above	22.1	22.1	22.1	
Fin Fan XF 616 - Below	38.0	38.0	38.0	
Fin Fan XF 617 - Above	19.6	19.6	19.6	
Fin Fan XF 617 - Below	34.7	34.7	34.7	
Heater # 5-Heater	21.7	21.7	21.7	
Heater # 5-Heater	21.1	21.1	21.1	
Heater # 5-Heater	17.2	17.2	17.2	
Heater H 601	28.6	28.6	28.6	
Hydro Heater H-402	24.4	24.4	24.4	
ID Fan	33.1	33.1	33.1	
ID Fan 200 HP Motor	26.8	26.8	26.8	
Incinirator Compressor & Motor	27.7	27.7	27.7	
Incinirator Fin Fan	30.5	30.5	30.5	
Lub Oil Cooler XF-061	28.3	28.3	28.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Misc pumps motors	31.1	31.1	31.1	
Motor & Pump P - 1502 Splitter Reflux Pu	19.6	19.6	19.6	
Motor & Pump P - 1503 Splitter Bottoms P	21.0	21.0	21.0	
Motor & Pump P - 1504 Splitter Bottoms P	22.3	22.3	22.3	
Motor & Pump P - 1507 Reactor Pump	22.1	22.1	22.1	
Motor & Pump P - 1508 Reactor Pump	29.4	29.4	29.4	
Motor & Pump P - 1511 Stabilizer Reflux	21.5	21.5	21.5	
Motor & Pump P - 1512 Stabilizer Reflux	21.7	21.7	21.7	
Motor & Pump P - 1513 Caustic Circulatin	29.7	29.7	29.7	
Motor & Pump P - 1514 Caustic Circulatin	28.5	28.5	28.5	
Motor & Pump P 120/121	21.2	21.2	21.2	
Motor & Pump P 1505 FRESH FEED PUMPS	21.3	21.3	21.3	
Motor & Pump P 1506 FRESH FEED PUMPS	21.4	21.4	21.4	
Motor & Pump P 1509 Chloride Injection P	20.4	20.4	20.4	
Motor & Pump P 1510 Chloride Injection P	20.4	20.4	20.4	
Motor & Pump P 1601 A	21.1	21.1	21.1	
Motor & Pump P 1601 B	21.1	21.1	21.1	
Motor & Pump P 1602 A	21.1	21.1	21.1	
Motor & Pump P 1602 B	19.4	19.4	19.4	
Motor & Pump P 211/212	13.9	13.9	13.9	
Motor & Pump P 215/214	29.0	29.0	29.0	
Motor & Pump P 216	33.6	33.6	33.6	
Motor & Pump P 217/218	18.3	18.3	18.3	
Motor & Pump P 300	23.0	23.0	23.0	
Motor & Pump P 301	28.8	28.8	28.8	
Motor & Pump P 302	22.8	22.8	22.8	
Motor & Pump P 303	23.4	23.4	23.4	
Motor & Pump P 305	22.0	22.0	22.0	
Motor & Pump P 306	36.2	36.2	36.2	
Motor & Pump P 307	29.3	29.3	29.3	
Motor & Pump P 309	21.2	21.2	21.2	
Motor & Pump P 312	26.2	26.2	26.2	
Motor & Pump P 313	26.1	26.1	26.1	
Motor & Pump P 315	28.1	28.1	28.1	
Motor & Pump P 316	27.4	27.4	27.4	
Motor & Pump P 317	27.3	27.3	27.3	
Motor & Pump P 318	26.3	26.3	26.3	
Motor & Pump P 319	25.7	25.7	25.7	
Motor & Pump P 327	36.2	36.2	36.2	
Motor & Pump P 328	33.5	33.5	33.5	
Motor & Pump P 329	33.7	33.7	33.7	
Motor & Pump P 451	17.0	17.0	17.0	
Motor & Pump P 453	15.0	15.0	15.0	
Motor & Pump P 454	14.4	14.4	14.4	
Motor & Pump P 457	14.2	14.2	14.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 458	16.1	16.1	16.1	
Motor & Pump P 459	14.4	14.4	14.4	
Motor & Pump P 56A/B	17.3	17.3	17.3	
P602 100 HP	31.6	31.6	31.6	
P603 60 HP	28.6	28.6	28.6	
P605 40 HP	28.8	28.8	28.8	
P607 15 HP	30.8	30.8	30.8	
P608 15 HP	30.8	30.8	30.8	
P611 15 HP	30.7	30.7	30.7	
P614/615 20 HP	30.9	30.9	30.9	
Rail Cars Bumping 6 times in during delivery	26.8			
Scanner Blower C-084A/B	16.4	16.4	16.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-0.1	-0.1	-0.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-1.8	-1.8	-1.8	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-2.6	-2.6	-2.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-2.3	-2.3	-2.3	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-2.9	-2.9	-2.9	
Solar Turbine T70 Boiler-Boiler East 1	5.2	5.2	5.2	
Solar Turbine T70 Boiler-Boiler East 2	7.4	7.4	7.4	
Solar Turbine T70 Boiler-Boiler North 1	17.2	17.2	17.2	
Solar Turbine T70 Boiler-Boiler North 2	8.7	8.7	8.7	
Solar Turbine T70 Boiler-Boiler Roof	13.4	13.4	13.4	
Solar Turbine T70 Boiler-Boiler South	14.9	14.9	14.9	
Solar Turbine T70 Boiler-Boiler South 2	6.7	6.7	6.7	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	24.4	24.4	24.4	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	29.7	29.7	29.7	
Solar Turbine T70 Enclosure-T70 Encl. Roof	26.0	26.0	26.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	28.1	28.1	28.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	14.8	14.8	14.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	16.9	16.9	16.9	
Solar Turbine T70 SCR-SCR Unit Roof	6.1	6.1	6.1	
Solar Turbine T70 SCR-SCR Unit NE	0.3	0.3	0.3	
Solar Turbine T70 SCR-SCR Unit North	6.2	6.2	6.2	
Solar Turbine T70 SCR-SCR Unit NW	0.6	0.6	0.6	
Solar Turbine T70 SCR-SCR Unit SE	-1.2	-1.2	-1.2	
Solar Turbine T70 SCR-SCR Unit South	3.8	3.8	3.8	
Solar Turbine T70 SCR-SCR Unit SW	-1.8	-1.8	-1.8	
Tank Farm Pump 1	28.7	28.7	28.7	
Tank Farm Pump 2	28.1	28.1	28.1	
Tank Farm Pump 3	30.7	30.7	30.7	
UP Train Locomotive Delivery and Pickup	25.3			
Vaporizer Blower 1	13.4	13.4	13.4	
Vaporizer Blower 2	14.1	14.1	14.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Vaporizer Inlet Silencer	1.9	1.9	1.9	
Vaporizer Motor 1	7.5	7.5	7.5	
Vaporizer Motor 2	8.4	8.4	8.4	
Water Treatment Pumps P-056A&B	13.7	13.7	13.7	
XF-1502 Splitter Area 1	38.2	38.2	38.2	
XF-1502 Splitter Area 2	35.5	35.5	35.5	
XF-1504 Splitter Area 1	35.7	35.7	35.7	
XF-1504 Splitter Area 2	33.8	33.8	33.8	
XF - 1601	26.2	26.2	26.2	
XF - 1602	25.7	25.7	25.7	
XF 304, XF 321	35.5	35.5	35.5	
XF 313, XF 314	35.5	35.5	35.5	
XF 335-1, XF 335-2	37.7	37.7	37.7	
XF 503	41.9	41.9	41.9	
XF Module 1510	39.4	39.4	39.4	
XF Module 1519	43.9	43.9	43.9	
Receiver N-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 53.8 dB(A)	Ld 7-19 dB(A)	Leq,N 53.8 dB(A)	Le 19-2
2.8-Open Intake	30.3	30.3	30.3	
2011 Track Mobile switch moving rail cars 33 cars per day	24.1			
Air Compressor C 1	33.5	33.5	33.5	
Air Compressor Pump, Motor Fan CMXF -055	20.2	20.2	20.2	
Asphalt Production	40.2	40.2	40.2	
BFW Pumps P-073A&B	16.2	16.2	16.2	
Blower F 401	39.3	39.3	39.3	
Boiler Crude Unit-Heater Opening	33.5	33.5	33.5	
Brine Transfer P-085	15.9	15.9	15.9	
Burner H301 North	22.4	22.4	22.4	
Burner H301 South	14.5	14.5	14.5	
Burner H302 North	23.2	23.2	23.2	
Burner H302 South	15.1	15.1	15.1	
Burner H303 North	22.0	22.0	22.0	
Burner H303 South	15.2	15.2	15.2	
Burner H304 North	19.2	19.2	19.2	
Burner H304 South	15.1	15.1	15.1	
Burner H305 North	17.6	17.6	17.6	
Burner H305 South	14.5	14.5	14.5	
Burner H306 North	21.3	21.3	21.3	
Burner H306 South	13.5	13.5	13.5	
Compressor House C301, C302, C 124-Comp House East 1	25.4	25.4	25.4	
Compressor House C301, C302, C 124-Comp House East 2	21.5	21.5	21.5	
Compressor House C301, C302, C 124-Comp House North	33.6	33.6	33.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	22.1	22.1	22.1	
Compressor House C301, C302, C 124-Comp House South 2	16.1	16.1	16.1	
Compressor House C301, C302, C 124-Comp House West	9.9	9.9	9.9	
Cooling Tower CT 510-CT 510 East Side	23.0	23.0	23.0	
Cooling Tower CT 510-CT 510 West Side	9.8	9.8	9.8	
Cooling Tower CT 511-CT 511 East Side	30.4	30.4	30.4	
Cooling Tower CT 511-CT 511 West Side	18.5	18.5	18.5	
Cooling Tower M 512	14.5	14.5	14.5	
Cooling Tower M 513	14.5	14.5	14.5	
Cooling Tower M 514	14.7	14.7	14.7	
Crude Plant Operation 80 dB/m^2 at 1 m	48.0	48.0	48.0	
Crude Operatoin Truck Truck Traffic	40.2	40.2	40.2	
Crude Operatoin Truck Truck Traffic LPG	34.7	34.7	34.7	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	48.5	48.5	48.5	
Crude Refinery / Renewable Fuels Truck T	38.1	37.5	37.5	
CT Y-600-CT Y-600 North	33.5	33.5	33.5	
CT Y-600-CT Y-600 South	21.4	21.4	21.4	
Deaerator Skid P-058A&B	16.5	16.5	16.5	
Exhaust Stack	30.8	30.8	30.8	
F.G. After Cooler XF-083ABC	25.9	25.9	25.9	
Fan Y-600	34.3	34.3	34.3	
FG Compressor Enclosure-FG Enclosure Roof	13.3	13.3	13.3	
FG Compressor Enclosure-FG Enclosure East	14.3	14.3	14.3	
FG Compressor Enclosure-FG Enclosure East Louver 1	-1.2	-1.2	-1.2	
FG Compressor Enclosure-FG Enclosure North	16.3	16.3	16.3	
FG Compressor Enclosure-FG Enclosure South	3.6	3.6	3.6	
FG Compressor Enclosure-FG Enclosure West	8.1	8.1	8.1	
FG Compressor Enclosure-FG Enclosure West Louver 3	-6.1	-6.1	-6.1	
Fin Fan XF 616 - Above	23.3	23.3	23.3	
Fin Fan XF 616 - Below	39.0	39.0	39.0	
Fin Fan XF 617 - Above	21.5	21.5	21.5	
Fin Fan XF 617 - Below	36.5	36.5	36.5	
Heater # 5-Heater	19.2	19.2	19.2	
Heater # 5-Heater	26.5	26.5	26.5	
Heater # 5-Heater	22.5	22.5	22.5	
Heater H 601	26.0	26.0	26.0	
Hydro Heater H-402	17.6	17.6	17.6	
ID Fan	27.6	27.6	27.6	
ID Fan 200 HP Motor	20.0	20.0	20.0	
Incinirator Compressor & Motor	15.8	15.8	15.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Incinirator Fin Fan	19.3	19.3	19.3	
Lub Oil Cooler XF-061	26.7	26.7	26.7	
Misc pumps motors	26.1	26.1	26.1	
Motor & Pump P - 1502 Splitter Reflux Pu	18.2	18.2	18.2	
Motor & Pump P - 1503 Splitter Bottoms P	19.2	19.2	19.2	
Motor & Pump P - 1504 Splitter Bottoms P	18.4	18.4	18.4	
Motor & Pump P - 1507 Reactor Pump	19.4	19.4	19.4	
Motor & Pump P - 1508 Reactor Pump	18.9	18.9	18.9	
Motor & Pump P - 1511 Stabilizer Reflux	16.2	16.2	16.2	
Motor & Pump P - 1512 Stabilizer Reflux	16.3	16.3	16.3	
Motor & Pump P - 1513 Caustic Circulatin	16.4	16.4	16.4	
Motor & Pump P - 1514 Caustic Circulatin	15.9	15.9	15.9	
Motor & Pump P 120/121	16.6	16.6	16.6	
Motor & Pump P 1505 FRESH FEED PUMPS	16.3	16.3	16.3	
Motor & Pump P 1506 FRESH FEED PUMPS	18.8	18.8	18.8	
Motor & Pump P 1509 Chloride Injection P	13.7	13.7	13.7	
Motor & Pump P 1510 Chloride Injection P	17.1	17.1	17.1	
Motor & Pump P 1601 A	17.3	17.3	17.3	
Motor & Pump P 1601 B	17.3	17.3	17.3	
Motor & Pump P 1602 A	17.3	17.3	17.3	
Motor & Pump P 1602 B	17.5	17.5	17.5	
Motor & Pump P 211/212	10.6	10.6	10.6	
Motor & Pump P 215/214	14.7	14.7	14.7	
Motor & Pump P 216	17.4	17.4	17.4	
Motor & Pump P 217/218	10.7	10.7	10.7	
Motor & Pump P 300	18.0	18.0	18.0	
Motor & Pump P 301	22.9	22.9	22.9	
Motor & Pump P 302	16.6	16.6	16.6	
Motor & Pump P 303	18.0	18.0	18.0	
Motor & Pump P 305	17.6	17.6	17.6	
Motor & Pump P 306	31.8	31.8	31.8	
Motor & Pump P 307	23.9	23.9	23.9	
Motor & Pump P 309	16.0	16.0	16.0	
Motor & Pump P 312	20.5	20.5	20.5	
Motor & Pump P 313	19.8	19.8	19.8	
Motor & Pump P 315	22.2	22.2	22.2	
Motor & Pump P 316	23.0	23.0	23.0	
Motor & Pump P 317	23.1	23.1	23.1	
Motor & Pump P 318	18.2	18.2	18.2	
Motor & Pump P 319	18.5	18.5	18.5	
Motor & Pump P 327	30.0	30.0	30.0	
Motor & Pump P 328	28.5	28.5	28.5	
Motor & Pump P 329	28.6	28.6	28.6	
Motor & Pump P 451	12.9	12.9	12.9	
Motor & Pump P 453	13.6	13.6	13.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 454	13.8	13.8	13.8	
Motor & Pump P 457	13.6	13.6	13.6	
Motor & Pump P 458	13.1	13.1	13.1	
Motor & Pump P 459	12.6	12.6	12.6	
Motor & Pump P 56A/B	12.3	12.3	12.3	
P602 100 HP	31.5	31.5	31.5	
P603 60 HP	29.1	29.1	29.1	
P605 40 HP	29.5	29.5	29.5	
P607 15 HP	29.6	29.6	29.6	
P608 15 HP	28.3	28.3	28.3	
P611 15 HP	28.6	28.6	28.6	
P614/615 20 HP	29.0	29.0	29.0	
Rail Cars Bumping 6 times in during delivery	24.9		36.7	
Scanner Blower C-084A/B	15.3	15.3	15.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-0.5	-0.5	-0.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-2.2	-2.2	-2.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-3.2	-3.2	-3.2	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-3.1	-3.1	-3.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-3.6	-3.6	-3.6	
Solar Turbine T70 Boiler-Boiler East 1	4.8	4.8	4.8	
Solar Turbine T70 Boiler-Boiler East 2	6.8	6.8	6.8	
Solar Turbine T70 Boiler-Boiler North 1	16.8	16.8	16.8	
Solar Turbine T70 Boiler-Boiler North 2	7.3	7.3	7.3	
Solar Turbine T70 Boiler-Boiler Roof	12.2	12.2	12.2	
Solar Turbine T70 Boiler-Boiler South	14.3	14.3	14.3	
Solar Turbine T70 Boiler-Boiler South 2	5.8	5.8	5.8	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	22.5	22.5	22.5	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	27.3	27.3	27.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	24.0	24.0	24.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	25.9	25.9	25.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	13.1	13.1	13.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	14.1	14.1	14.1	
Solar Turbine T70 SCR-SCR Unit Roof	5.7	5.7	5.7	
Solar Turbine T70 SCR-SCR Unit NE	-0.3	-0.3	-0.3	
Solar Turbine T70 SCR-SCR Unit North	5.8	5.8	5.8	
Solar Turbine T70 SCR-SCR Unit NW	0.2	0.2	0.2	
Solar Turbine T70 SCR-SCR Unit SE	-1.8	-1.8	-1.8	
Solar Turbine T70 SCR-SCR Unit South	3.2	3.2	3.2	
Solar Turbine T70 SCR-SCR Unit SW	-2.5	-2.5	-2.5	
Tank Farm Pump 1	35.5	35.5	35.5	
Tank Farm Pump 2	25.5	25.5	25.5	
Tank Farm Pump 3	28.4	28.4	28.4	
UP Train Locomotive Delivery and Pickup	23.2		34.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Vaporizer Blower 1	12.1	12.1	12.1	
Vaporizer Blower 2	12.1	12.1	12.1	
Vaporizer Inlet Silencer	1.2	1.2	1.2	
Vaporizer Motor 1	6.1	6.1	6.1	
Vaporizer Motor 2	6.0	6.0	6.0	
Water Treatment Pumps P-056A&B	12.7	12.7	12.7	
XF-1502 Splitter Area 1	24.5	24.5	24.5	
XF-1502 Splitter Area 2	24.5	24.5	24.5	
XF-1504 Splitter Area 1	24.5	24.5	24.5	
XF-1504 Splitter Area 2	24.6	24.6	24.6	
XF - 1601	24.4	24.4	24.4	
XF - 1602	24.8	24.8	24.8	
XF 304, XF 321	33.1	33.1	33.1	
XF 313, XF 314	35.2	35.2	35.2	
XF 335-1, XF 335-2	36.2	36.2	36.2	
XF 503	32.3	32.3	32.3	
XF Module 1510	27.8	27.8	27.8	
XF Module 1519	28.7	28.7	28.7	
Receiver N-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 54.9 dB(A)	Ld 7-19 dB(A)	Leq,N 54.9 dB(A)	Le 19-2
2.8-Open Intake	29.4	29.4	29.4	
2011 Track Mobile switch moving rail cars 33 cars per day	25.3			
Air Compressor C 1	33.3	33.3	33.3	
Air Compressor Pump, Motor Fan CMXF -055	22.7	22.7	22.7	
Asphalt Production	43.6	43.6	43.6	
BFW Pumps P-073A&B	19.2	19.2	19.2	
Blower F 401	42.1	42.1	42.1	
Boiler Crude Unit-Heater Opening	27.0	27.0	27.0	
Brine Transfer P-085	18.5	18.5	18.5	
Burner H301 North	25.2	25.2	25.2	
Burner H301 South	19.4	19.4	19.4	
Burner H302 North	20.0	20.0	20.0	
Burner H302 South	14.4	14.4	14.4	
Burner H303 North	21.8	21.8	21.8	
Burner H303 South	14.1	14.1	14.1	
Burner H304 North	18.3	18.3	18.3	
Burner H304 South	13.8	13.8	13.8	
Burner H305 North	18.8	18.8	18.8	
Burner H305 South	13.5	13.5	13.5	
Burner H306 North	19.3	19.3	19.3	
Burner H306 South	12.5	12.5	12.5	
Compressor House C301, C302, C 124-Comp House East 1	26.4	26.4	26.4	
Compressor House C301, C302, C 124-Comp House East 2	26.1	26.1	26.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Compressor House C301, C302, C 124-Comp House North	37.3	37.3	37.3	
Compressor House C301, C302, C 124-Comp House South 1	23.7	23.7	23.7	
Compressor House C301, C302, C 124-Comp House South 2	17.8	17.8	17.8	
Compressor House C301, C302, C 124-Comp House West	10.5	10.5	10.5	
Cooling Tower CT 510-CT 510 East Side	24.3	24.3	24.3	
Cooling Tower CT 510-CT 510 West Side	10.8	10.8	10.8	
Cooling Tower CT 511-CT 511 East Side	29.3	29.3	29.3	
Cooling Tower CT 511-CT 511 West Side	20.9	20.9	20.9	
Cooling Tower M 512	17.7	17.7	17.7	
Cooling Tower M 513	18.6	18.6	18.6	
Cooling Tower M 514	19.5	19.5	19.5	
Crude Plant Operation 80 dB/m^2 at 1 m	46.5	46.5	46.5	
Crude Operatoin Truck Truck Traffic	46.5	46.5	46.5	
Crude Operatoin Truck Truck Traffic LPG	36.7	36.7	36.7	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	47.0	47.0	47.0	
Crude Refinery / Renewable Fuels Truck T	41.2	40.6	40.6	
CT Y-600-CT Y-600 North	32.7	32.7	32.7	
CT Y-600-CT Y-600 South	22.1	22.1	22.1	
Deaerator Skid P-058A&B	22.9	22.9	22.9	
Exhaust Stack	34.4	34.4	34.4	
F.G. After Cooler XF-083ABC	26.1	26.1	26.1	
Fan Y-600	35.3	35.3	35.3	
FG Compressor Enclosure-FG Enclosure Roof	14.7	14.7	14.7	
FG Compressor Enclosure-FG Enclosure East	14.5	14.5	14.5	
FG Compressor Enclosure-FG Enclosure East Louver 1	0.5	0.5	0.5	
FG Compressor Enclosure-FG Enclosure North	16.3	16.3	16.3	
FG Compressor Enclosure-FG Enclosure South	3.4	3.4	3.4	
FG Compressor Enclosure-FG Enclosure West	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure West Louver 3	-5.9	-5.9	-5.9	
Fin Fan XF 616 - Above	23.4	23.4	23.4	
Fin Fan XF 616 - Below	36.4	36.4	36.4	
Fin Fan XF 617 - Above	20.5	20.5	20.5	
Fin Fan XF 617 - Below	33.0	33.0	33.0	
Heater # 5-Heater	19.8	19.8	19.8	
Heater # 5-Heater	22.5	22.5	22.5	
Heater # 5-Heater	17.9	17.9	17.9	
Heater H 601	21.5	21.5	21.5	
Hydro Heater H-402	17.2	17.2	17.2	
ID Fan	27.0	27.0	27.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
ID Fan 200 HP Motor	19.2	19.2	19.2	
Incinirator Compressor & Motor	19.0	19.0	19.0	
Incinirator Fin Fan	22.0	22.0	22.0	
Lub Oil Cooler XF-061	29.9	29.9	29.9	
Misc pumps motors	26.0	26.0	26.0	
Motor & Pump P - 1502 Splitter Reflux Pu	19.6	19.6	19.6	
Motor & Pump P - 1503 Splitter Bottoms P	21.7	21.7	21.7	
Motor & Pump P - 1504 Splitter Bottoms P	20.4	20.4	20.4	
Motor & Pump P - 1507 Reactor Pump	23.4	23.4	23.4	
Motor & Pump P - 1508 Reactor Pump	21.1	21.1	21.1	
Motor & Pump P - 1511 Stabilizer Reflux	19.4	19.4	19.4	
Motor & Pump P - 1512 Stabilizer Reflux	19.0	19.0	19.0	
Motor & Pump P - 1513 Caustic Circulatin	18.9	18.9	18.9	
Motor & Pump P - 1514 Caustic Circulatin	18.9	18.9	18.9	
Motor & Pump P 120/121	15.8	15.8	15.8	
Motor & Pump P 1505 FRESH FEED PUMPS	20.5	20.5	20.5	
Motor & Pump P 1506 FRESH FEED PUMPS	21.9	21.9	21.9	
Motor & Pump P 1509 Chloride Injection P	12.0	12.0	12.0	
Motor & Pump P 1510 Chloride Injection P	13.4	13.4	13.4	
Motor & Pump P 1601 A	20.8	20.8	20.8	
Motor & Pump P 1601 B	20.8	20.8	20.8	
Motor & Pump P 1602 A	20.8	20.8	20.8	
Motor & Pump P 1602 B	20.9	20.9	20.9	
Motor & Pump P 211/212	15.4	15.4	15.4	
Motor & Pump P 215/214	19.3	19.3	19.3	
Motor & Pump P 216	20.5	20.5	20.5	
Motor & Pump P 217/218	15.9	15.9	15.9	
Motor & Pump P 300	18.1	18.1	18.1	
Motor & Pump P 301	22.8	22.8	22.8	
Motor & Pump P 302	15.8	15.8	15.8	
Motor & Pump P 303	17.5	17.5	17.5	
Motor & Pump P 305	17.9	17.9	17.9	
Motor & Pump P 306	31.2	31.2	31.2	
Motor & Pump P 307	22.4	22.4	22.4	
Motor & Pump P 309	15.0	15.0	15.0	
Motor & Pump P 312	19.5	19.5	19.5	
Motor & Pump P 313	21.7	21.7	21.7	
Motor & Pump P 315	24.3	24.3	24.3	
Motor & Pump P 316	25.3	25.3	25.3	
Motor & Pump P 317	27.8	27.8	27.8	
Motor & Pump P 318	19.9	19.9	19.9	
Motor & Pump P 319	20.0	20.0	20.0	
Motor & Pump P 327	29.4	29.4	29.4	
Motor & Pump P 328	27.5	27.5	27.5	
Motor & Pump P 329	27.4	27.4	27.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 451	15.3	15.3	15.3	
Motor & Pump P 453	15.5	15.5	15.5	
Motor & Pump P 454	16.0	16.0	16.0	
Motor & Pump P 457	15.6	15.6	15.6	
Motor & Pump P 458	15.6	15.6	15.6	
Motor & Pump P 459	16.0	16.0	16.0	
Motor & Pump P 56A/B	14.5	14.5	14.5	
P602 100 HP	24.9	24.9	24.9	
P603 60 HP	25.0	25.0	25.0	
P605 40 HP	25.9	25.9	25.9	
P607 15 HP	20.9	20.9	20.9	
P608 15 HP	20.9	20.9	20.9	
P611 15 HP	21.0	21.0	21.0	
P614/615 20 HP	25.1	25.1	25.1	
Rail Cars Bumping 6 times in during delivery	26.7		38.5	
Scanner Blower C-084A/B	16.5	16.5	16.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	1.0	1.0	1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-3.1	-3.1	-3.1	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-1.2	-1.2	-1.2	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-3.1	-3.1	-3.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-3.3	-3.3	-3.3	
Solar Turbine T70 Boiler-Boiler East 1	5.9	5.9	5.9	
Solar Turbine T70 Boiler-Boiler East 2	8.8	8.8	8.8	
Solar Turbine T70 Boiler-Boiler North 1	19.4	19.4	19.4	
Solar Turbine T70 Boiler-Boiler North 2	8.4	8.4	8.4	
Solar Turbine T70 Boiler-Boiler Roof	16.8	16.8	16.8	
Solar Turbine T70 Boiler-Boiler South	15.0	15.0	15.0	
Solar Turbine T70 Boiler-Boiler South 2	6.4	6.4	6.4	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	26.1	26.1	26.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	31.0	31.0	31.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	28.7	28.7	28.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	27.2	27.2	27.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	15.0	15.0	15.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	15.7	15.7	15.7	
Solar Turbine T70 SCR-SCR Unit Roof	9.0	9.0	9.0	
Solar Turbine T70 SCR-SCR Unit NE	2.8	2.8	2.8	
Solar Turbine T70 SCR-SCR Unit North	8.3	8.3	8.3	
Solar Turbine T70 SCR-SCR Unit NW	2.4	2.4	2.4	
Solar Turbine T70 SCR-SCR Unit SE	-0.3	-0.3	-0.3	
Solar Turbine T70 SCR-SCR Unit South	3.8	3.8	3.8	
Solar Turbine T70 SCR-SCR Unit SW	-2.1	-2.1	-2.1	
Tank Farm Pump 1	28.6	28.6	28.6	
Tank Farm Pump 2	37.0	37.0	37.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Tank Farm Pump 3	45.5	45.5	45.5	
UP Train Locomotive Delivery and Pickup	24.0		35.8	
Vaporizer Blower 1	15.8	15.8	15.8	
Vaporizer Blower 2	15.7	15.7	15.7	
Vaporizer Inlet Silencer	3.5	3.5	3.5	
Vaporizer Motor 1	9.6	9.6	9.6	
Vaporizer Motor 2	9.6	9.6	9.6	
Water Treatment Pumps P-056A&B	15.1	15.1	15.1	
XF-1502 Splitter Area 1	29.3	29.3	29.3	
XF-1502 Splitter Area 2	28.3	28.3	28.3	
XF-1504 Splitter Area 1	29.6	29.6	29.6	
XF-1504 Splitter Area 2	28.2	28.2	28.2	
XF - 1601	29.1	29.1	29.1	
XF - 1602	29.1	29.1	29.1	
XF 304, XF 321	33.5	33.5	33.5	
XF 313, XF 314	39.5	39.5	39.5	
XF 335-1, XF 335-2	35.2	35.2	35.2	
XF 503	35.9	35.9	35.9	
XF Module 1510	31.4	31.4	31.4	
XF Module 1519	33.2	33.2	33.2	
Receiver N-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 55.9 dB(A)	Ld 7-19 dB(A)	Leq,N 55.9 dB(A)	Le 19-2
2.8-Open Intake	29.8	29.8	29.8	
2011 Track Mobile switch moving rail cars 33 cars per day	21.5			
Air Compressor C 1	32.7	32.7	32.7	
Air Compressor Pump, Motor Fan CMXF -055	16.3	16.3	16.3	
Asphalt Production	34.8	34.8	34.8	
BFW Pumps P-073A&B	13.3	13.3	13.3	
Blower F 401	36.3	36.3	36.3	
Boiler Crude Unit-Heater Opening	21.1	21.1	21.1	
Brine Transfer P-085	15.6	15.6	15.6	
Burner H301 North	28.8	28.8	28.8	
Burner H301 South	13.8	13.8	13.8	
Burner H302 North	19.6	19.6	19.6	
Burner H302 South	14.5	14.5	14.5	
Burner H303 North	20.2	20.2	20.2	
Burner H303 South	12.7	12.7	12.7	
Burner H304 North	16.8	16.8	16.8	
Burner H304 South	12.8	12.8	12.8	
Burner H305 North	20.7	20.7	20.7	
Burner H305 South	13.3	13.3	13.3	
Burner H306 North	19.8	19.8	19.8	
Burner H306 South	12.6	12.6	12.6	
Compressor House C301, C302, C 124-Comp House East 1	21.5	21.5	21.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	23.2	23.2	23.2	
Compressor House C301, C302, C 124-Comp House North	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House South 1	20.2	20.2	20.2	
Compressor House C301, C302, C 124-Comp House South 2	15.6	15.6	15.6	
Compressor House C301, C302, C 124-Comp House West	8.2	8.2	8.2	
Cooling Tower CT 510-CT 510 East Side	18.7	18.7	18.7	
Cooling Tower CT 510-CT 510 West Side	7.5	7.5	7.5	
Cooling Tower CT 511-CT 511 East Side	24.4	24.4	24.4	
Cooling Tower CT 511-CT 511 West Side	14.0	14.0	14.0	
Cooling Tower M 512	11.9	11.9	11.9	
Cooling Tower M 513	12.0	12.0	12.0	
Cooling Tower M 514	11.9	11.9	11.9	
Crude Plant Operation 80 dB/m^2 at 1 m	34.5	34.5	34.5	
Crude Operatoin Truck Truck Traffic	55.0	55.0	55.0	
Crude Operatoin Truck Truck Traffic LPG	32.9	32.9	32.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	34.8	34.8	34.8	
Crude Refinery / Renewable Fuels Truck T	42.7	42.5	43.5	
CT Y-600-CT Y-600 North	21.9	21.9	21.9	
CT Y-600-CT Y-600 South	18.6	18.6	18.6	
Deaerator Skid P-058A&B	18.1	18.1	18.1	
Exhaust Stack	29.3	29.3	29.3	
F.G. After Cooler XF-083ABC	21.8	21.8	21.8	
Fan Y-600	27.4	27.4	27.4	
FG Compressor Enclosure-FG Enclosure Roof	9.7	9.7	9.7	
FG Compressor Enclosure-FG Enclosure East	12.6	12.6	12.6	
FG Compressor Enclosure-FG Enclosure East Louver 1	-3.9	-3.9	-3.9	
FG Compressor Enclosure-FG Enclosure North	15.7	15.7	15.7	
FG Compressor Enclosure-FG Enclosure South	0.1	0.1	0.1	
FG Compressor Enclosure-FG Enclosure West	7.4	7.4	7.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	-7.7	-7.7	-7.7	
Fin Fan XF 616 - Above	13.0	13.0	13.0	
Fin Fan XF 616 - Below	25.9	25.9	25.9	
Fin Fan XF 617 - Above	9.3	9.3	9.3	
Fin Fan XF 617 - Below	21.4	21.4	21.4	
Heater # 5-Heater	14.8	14.8	14.8	
Heater # 5-Heater	16.4	16.4	16.4	
Heater # 5-Heater	13.4	13.4	13.4	
Heater H 601	12.5	12.5	12.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Hydro Heater H-402	16.4	16.4	16.4	
ID Fan	26.8	26.8	26.8	
ID Fan 200 HP Motor	17.9	17.9	17.9	
Incinirator Compressor & Motor	20.1	20.1	20.1	
Incinirator Fin Fan	23.5	23.5	23.5	
Lub Oil Cooler XF-061	26.8	26.8	26.8	
Misc pumps motors	20.9	20.9	20.9	
Motor & Pump P - 1502 Splitter Reflux Pu	11.3	11.3	11.3	
Motor & Pump P - 1503 Splitter Bottoms P	21.0	21.0	21.0	
Motor & Pump P - 1504 Splitter Bottoms P	21.0	21.0	21.0	
Motor & Pump P - 1507 Reactor Pump	21.1	21.1	21.1	
Motor & Pump P - 1508 Reactor Pump	21.1	21.1	21.1	
Motor & Pump P - 1511 Stabilizer Reflux	20.7	20.7	20.7	
Motor & Pump P - 1512 Stabilizer Reflux	20.7	20.7	20.7	
Motor & Pump P - 1513 Caustic Circulatin	20.0	20.0	20.0	
Motor & Pump P - 1514 Caustic Circulatin	20.6	20.6	20.6	
Motor & Pump P 120/121	15.0	15.0	15.0	
Motor & Pump P 1505 FRESH FEED PUMPS	16.1	16.1	16.1	
Motor & Pump P 1506 FRESH FEED PUMPS	16.5	16.5	16.5	
Motor & Pump P 1509 Chloride Injection P	9.7	9.7	9.7	
Motor & Pump P 1510 Chloride Injection P	11.5	11.5	11.5	
Motor & Pump P 1601 A	17.5	17.5	17.5	
Motor & Pump P 1601 B	17.5	17.5	17.5	
Motor & Pump P 1602 A	17.6	17.6	17.6	
Motor & Pump P 1602 B	17.9	17.9	17.9	
Motor & Pump P 211/212	9.4	9.4	9.4	
Motor & Pump P 215/214	14.6	14.6	14.6	
Motor & Pump P 216	12.1	12.1	12.1	
Motor & Pump P 217/218	7.0	7.0	7.0	
Motor & Pump P 300	17.7	17.7	17.7	
Motor & Pump P 301	22.7	22.7	22.7	
Motor & Pump P 302	17.7	17.7	17.7	
Motor & Pump P 303	16.6	16.6	16.6	
Motor & Pump P 305	17.9	17.9	17.9	
Motor & Pump P 306	30.4	30.4	30.4	
Motor & Pump P 307	22.0	22.0	22.0	
Motor & Pump P 309	14.9	14.9	14.9	
Motor & Pump P 312	18.0	18.0	18.0	
Motor & Pump P 313	18.7	18.7	18.7	
Motor & Pump P 315	21.0	21.0	21.0	
Motor & Pump P 316	23.9	23.9	23.9	
Motor & Pump P 317	19.1	19.1	19.1	
Motor & Pump P 318	17.2	17.2	17.2	
Motor & Pump P 319	17.1	17.1	17.1	
Motor & Pump P 327	29.9	29.9	29.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 328	27.5	27.5	27.5	
Motor & Pump P 329	27.5	27.5	27.5	
Motor & Pump P 451	11.3	11.3	11.3	
Motor & Pump P 453	12.6	12.6	12.6	
Motor & Pump P 454	10.3	10.3	10.3	
Motor & Pump P 457	12.6	12.6	12.6	
Motor & Pump P 458	10.3	10.3	10.3	
Motor & Pump P 459	10.3	10.3	10.3	
Motor & Pump P 56A/B	10.0	10.0	10.0	
P602 100 HP	17.4	17.4	17.4	
P603 60 HP	17.0	17.0	17.0	
P605 40 HP	17.0	17.0	17.0	
P607 15 HP	13.0	13.0	13.0	
P608 15 HP	12.9	12.9	12.9	
P611 15 HP	13.9	13.9	13.9	
P614/615 20 HP	17.1	17.1	17.1	
Rail Cars Bumping 6 times in during delivery	22.2			
Scanner Blower C-084A/B	14.1	14.1	14.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-1.5	-1.5	-1.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-6.9	-6.9	-6.9	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-4.4	-4.4	-4.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-4.7	-4.7	-4.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-5.5	-5.5	-5.5	
Solar Turbine T70 Boiler-Boiler East 1	4.9	4.9	4.9	
Solar Turbine T70 Boiler-Boiler East 2	7.9	7.9	7.9	
Solar Turbine T70 Boiler-Boiler North 1	18.0	18.0	18.0	
Solar Turbine T70 Boiler-Boiler North 2	6.2	6.2	6.2	
Solar Turbine T70 Boiler-Boiler Roof	12.3	12.3	12.3	
Solar Turbine T70 Boiler-Boiler South	14.0	14.0	14.0	
Solar Turbine T70 Boiler-Boiler South 2	4.9	4.9	4.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	22.0	22.0	22.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	29.3	29.3	29.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	24.7	24.7	24.7	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	24.4	24.4	24.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	10.4	10.4	10.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	12.8	12.8	12.8	
Solar Turbine T70 SCR-SCR Unit Roof	4.8	4.8	4.8	
Solar Turbine T70 SCR-SCR Unit NE	1.0	1.0	1.0	
Solar Turbine T70 SCR-SCR Unit North	5.9	5.9	5.9	
Solar Turbine T70 SCR-SCR Unit NW	-5.2	-5.2	-5.2	
Solar Turbine T70 SCR-SCR Unit SE	-1.6	-1.6	-1.6	
Solar Turbine T70 SCR-SCR Unit South	2.7	2.7	2.7	
Solar Turbine T70 SCR-SCR Unit SW	-3.6	-3.6	-3.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Tank Farm Pump 1	23.9	23.9	23.9	
Tank Farm Pump 2	23.4	23.4	23.4	
Tank Farm Pump 3	22.6	22.6	22.6	
UP Train Locomotive Delivery and Pickup	21.1			
Vaporizer Blower 1	11.9	11.9	11.9	
Vaporizer Blower 2	11.6	11.6	11.6	
Vaporizer Inlet Silencer	0.6	0.6	0.6	
Vaporizer Motor 1	5.6	5.6	5.6	
Vaporizer Motor 2	5.4	5.4	5.4	
Water Treatment Pumps P-056A&B	12.1	12.1	12.1	
XF-1502 Splitter Area 1	29.7	29.7	29.7	
XF-1502 Splitter Area 2	23.3	23.3	23.3	
XF-1504 Splitter Area 1	29.7	29.7	29.7	
XF-1504 Splitter Area 2	23.0	23.0	23.0	
XF - 1601	23.0	23.0	23.0	
XF - 1602	23.0	23.0	23.0	
XF 304, XF 321	33.2	33.2	33.2	
XF 313, XF 314	33.4	33.4	33.4	
XF 335-1, XF 335-2	35.2	35.2	35.2	
XF 503	29.4	29.4	29.4	
XF Module 1510	26.5	26.5	26.5	
XF Module 1519	33.7	33.7	33.7	
Receiver E-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 53.2 dB(A)	Ld 7-19 dB(A)	Leq,N 53.2 dB(A)	Le 19-2
2.8-Open Intake	22.0	22.0	22.0	
2011 Track Mobile switch moving rail cars 33 cars per day	17.6			
Air Compressor C 1	29.4	29.4	29.4	
Air Compressor Pump, Motor Fan CMXF -055	14.7	14.7	14.7	
Asphalt Production	30.3	30.3	30.3	
BFW Pumps P-073A&B	12.4	12.4	12.4	
Blower F 401	34.6	34.6	34.6	
Boiler Crude Unit-Heater Opening	21.1	21.1	21.1	
Brine Transfer P-085	12.1	12.1	12.1	
Burner H301 North	16.0	16.0	16.0	
Burner H301 South	9.5	9.5	9.5	
Burner H302 North	10.9	10.9	10.9	
Burner H302 South	9.9	9.9	9.9	
Burner H303 North	12.0	12.0	12.0	
Burner H303 South	10.1	10.1	10.1	
Burner H304 North	12.6	12.6	12.6	
Burner H304 South	10.0	10.0	10.0	
Burner H305 North	13.0	13.0	13.0	
Burner H305 South	9.4	9.4	9.4	
Burner H306 North	11.8	11.8	11.8	
Burner H306 South	8.5	8.5	8.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Compressor House C301, C302, C 124-Comp House East 1	18.9	18.9	18.9	
Compressor House C301, C302, C 124-Comp House East 2	14.8	14.8	14.8	
Compressor House C301, C302, C 124-Comp House North	28.7	28.7	28.7	
Compressor House C301, C302, C 124-Comp House South 1	18.8	18.8	18.8	
Compressor House C301, C302, C 124-Comp House South 2	11.2	11.2	11.2	
Compressor House C301, C302, C 124-Comp House West	5.3	5.3	5.3	
Cooling Tower CT 510-CT 510 East Side	15.3	15.3	15.3	
Cooling Tower CT 510-CT 510 West Side	4.6	4.6	4.6	
Cooling Tower CT 511-CT 511 East Side	19.3	19.3	19.3	
Cooling Tower CT 511-CT 511 West Side	13.2	13.2	13.2	
Cooling Tower M 512	8.4	8.4	8.4	
Cooling Tower M 513	8.6	8.6	8.6	
Cooling Tower M 514	8.4	8.4	8.4	
Crude Plant Operation 80 dB/m^2 at 1 m	33.7	33.7	33.7	
Crude Operatoin Truck Truck Traffic	52.1	52.1	52.1	
Crude Operatoin Truck Truck Traffic LPG	33.9	33.9	33.9	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	34.6	34.6	34.6	
Crude Refinery / Renewable Fuels Truck T	43.7	43.5	44.4	
CT Y-600-CT Y-600 North	20.8	20.8	20.8	
CT Y-600-CT Y-600 South	15.8	15.8	15.8	
Deaerator Skid P-058A&B	13.3	13.3	13.3	
Exhaust Stack	22.6	22.6	22.6	
F.G. After Cooler XF-083ABC	19.7	19.7	19.7	
Fan Y-600	31.0	31.0	31.0	
FG Compressor Enclosure-FG Enclosure Roof	8.9	8.9	8.9	
FG Compressor Enclosure-FG Enclosure East	7.2	7.2	7.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	-9.4	-9.4	-9.4	
FG Compressor Enclosure-FG Enclosure North	10.5	10.5	10.5	
FG Compressor Enclosure-FG Enclosure South	-2.8	-2.8	-2.8	
FG Compressor Enclosure-FG Enclosure West	3.5	3.5	3.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	-12.0	-12.0	-12.0	
Fin Fan XF 616 - Above	16.4	16.4	16.4	
Fin Fan XF 616 - Below	27.8	27.8	27.8	
Fin Fan XF 617 - Above	13.7	13.7	13.7	
Fin Fan XF 617 - Below	24.2	24.2	24.2	
Heater # 5-Heater	13.3	13.3	13.3	
Heater # 5-Heater	15.0	15.0	15.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Heater # 5-Heater	11.9	11.9	11.9	
Heater H 601	12.4	12.4	12.4	
Hydro Heater H-402	10.7	10.7	10.7	
ID Fan	23.0	23.0	23.0	
ID Fan 200 HP Motor	13.5	13.5	13.5	
Incinirator Compressor & Motor	15.2	15.2	15.2	
Incinirator Fin Fan	21.1	21.1	21.1	
Lub Oil Cooler XF-061	23.1	23.1	23.1	
Misc pumps motors	16.2	16.2	16.2	
Motor & Pump P - 1502 Splitter Reflux Pu	7.4	7.4	7.4	
Motor & Pump P - 1503 Splitter Bottoms P	11.7	11.7	11.7	
Motor & Pump P - 1504 Splitter Bottoms P	11.7	11.7	11.7	
Motor & Pump P - 1507 Reactor Pump	11.8	11.8	11.8	
Motor & Pump P - 1508 Reactor Pump	11.8	11.8	11.8	
Motor & Pump P - 1511 Stabilizer Reflux	11.5	11.5	11.5	
Motor & Pump P - 1512 Stabilizer Reflux	11.5	11.5	11.5	
Motor & Pump P - 1513 Caustic Circulatin	11.3	11.3	11.3	
Motor & Pump P - 1514 Caustic Circulatin	11.4	11.4	11.4	
Motor & Pump P 120/121	10.7	10.7	10.7	
Motor & Pump P 1505 FRESH FEED PUMPS	11.1	11.1	11.1	
Motor & Pump P 1506 FRESH FEED PUMPS	11.3	11.3	11.3	
Motor & Pump P 1509 Chloride Injection P	6.8	6.8	6.8	
Motor & Pump P 1510 Chloride Injection P	7.7	7.7	7.7	
Motor & Pump P 1601 A	12.0	12.0	12.0	
Motor & Pump P 1601 B	12.0	12.0	12.0	
Motor & Pump P 1602 A	11.6	11.6	11.6	
Motor & Pump P 1602 B	11.6	11.6	11.6	
Motor & Pump P 211/212	6.8	6.8	6.8	
Motor & Pump P 215/214	7.8	7.8	7.8	
Motor & Pump P 216	8.0	8.0	8.0	
Motor & Pump P 217/218	3.2	3.2	3.2	
Motor & Pump P 300	11.0	11.0	11.0	
Motor & Pump P 301	16.1	16.1	16.1	
Motor & Pump P 302	11.1	11.1	11.1	
Motor & Pump P 303	10.8	10.8	10.8	
Motor & Pump P 305	11.6	11.6	11.6	
Motor & Pump P 306	27.2	27.2	27.2	
Motor & Pump P 307	16.6	16.6	16.6	
Motor & Pump P 309	10.4	10.4	10.4	
Motor & Pump P 312	15.0	15.0	15.0	
Motor & Pump P 313	15.0	15.0	15.0	
Motor & Pump P 315	14.7	14.7	14.7	
Motor & Pump P 316	18.6	18.6	18.6	
Motor & Pump P 317	18.7	18.7	18.7	
Motor & Pump P 318	13.5	13.5	13.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 319	13.5	13.5	13.5	
Motor & Pump P 327	23.7	23.7	23.7	
Motor & Pump P 328	23.1	23.1	23.1	
Motor & Pump P 329	23.3	23.3	23.3	
Motor & Pump P 451	7.1	7.1	7.1	
Motor & Pump P 453	8.0	8.0	8.0	
Motor & Pump P 454	7.1	7.1	7.1	
Motor & Pump P 457	8.0	8.0	8.0	
Motor & Pump P 458	7.1	7.1	7.1	
Motor & Pump P 459	7.2	7.2	7.2	
Motor & Pump P 56A/B	4.2	4.2	4.2	
P602 100 HP	14.8	14.8	14.8	
P603 60 HP	16.1	16.1	16.1	
P605 40 HP	16.1	16.1	16.1	
P607 15 HP	10.5	10.5	10.5	
P608 15 HP	10.5	10.5	10.5	
P611 15 HP	10.5	10.5	10.5	
P614/615 20 HP	13.4	13.4	13.4	
Rail Cars Bumping 6 times in during delivery	18.4			
Scanner Blower C-084A/B	11.7	11.7	11.7	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-4.5	-4.5	-4.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-8.9	-8.9	-8.9	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-6.9	-6.9	-6.9	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-7.9	-7.9	-7.9	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-8.3	-8.3	-8.3	
Solar Turbine T70 Boiler-Boiler East 1	0.5	0.5	0.5	
Solar Turbine T70 Boiler-Boiler East 2	0.9	0.9	0.9	
Solar Turbine T70 Boiler-Boiler North 1	13.3	13.3	13.3	
Solar Turbine T70 Boiler-Boiler North 2	3.2	3.2	3.2	
Solar Turbine T70 Boiler-Boiler Roof	9.0	9.0	9.0	
Solar Turbine T70 Boiler-Boiler South	9.5	9.5	9.5	
Solar Turbine T70 Boiler-Boiler South 2	0.9	0.9	0.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	19.1	19.1	19.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	23.9	23.9	23.9	
Solar Turbine T70 Enclosure-T70 Encl. Roof	21.1	21.1	21.1	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	21.1	21.1	21.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	9.0	9.0	9.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	9.2	9.2	9.2	
Solar Turbine T70 SCR-SCR Unit Roof	1.9	1.9	1.9	
Solar Turbine T70 SCR-SCR Unit NE	-2.4	-2.4	-2.4	
Solar Turbine T70 SCR-SCR Unit North	2.4	2.4	2.4	
Solar Turbine T70 SCR-SCR Unit NW	-7.0	-7.0	-7.0	
Solar Turbine T70 SCR-SCR Unit SE	-5.4	-5.4	-5.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 SCR-SCR Unit South	-1.4	-1.4	-1.4	
Solar Turbine T70 SCR-SCR Unit SW	-7.2	-7.2	-7.2	
Tank Farm Pump 1	18.1	18.1	18.1	
Tank Farm Pump 2	18.5	18.5	18.5	
Tank Farm Pump 3	18.3	18.3	18.3	
UP Train Locomotive Delivery and Pickup	15.7			
Vaporizer Blower 1	8.4	8.4	8.4	
Vaporizer Blower 2	6.0	6.0	6.0	
Vaporizer Inlet Silencer	-2.6	-2.6	-2.6	
Vaporizer Motor 1	2.2	2.2	2.2	
Vaporizer Motor 2	-0.3	-0.3	-0.3	
Water Treatment Pumps P-056A&B	8.9	8.9	8.9	
XF-1502 Splitter Area 1	18.8	18.8	18.8	
XF-1502 Splitter Area 2	18.7	18.7	18.7	
XF-1504 Splitter Area 1	18.8	18.8	18.8	
XF-1504 Splitter Area 2	18.8	18.8	18.8	
XF - 1601	16.6	16.6	16.6	
XF - 1602	16.7	16.7	16.7	
XF 304, XF 321	29.3	29.3	29.3	
XF 313, XF 314	29.7	29.7	29.7	
XF 335-1, XF 335-2	31.8	31.8	31.8	
XF 503	22.9	22.9	22.9	
XF Module 1510	22.2	22.2	22.2	
XF Module 1519	23.0	23.0	23.0	
Receiver E-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 53.7 dB(A)	Ld 7-19 dB(A)	Leq,N 53.6 dB(A)	Le 19-2
2.8-Open Intake	24.0	24.0	24.0	
2011 Track Mobile switch moving rail cars 33 cars per day	20.6			
Air Compressor C 1	30.3	30.3	30.3	
Air Compressor Pump, Motor Fan CMXF -055	16.8	16.8	16.8	
Asphalt Production	34.5	34.5	34.5	
BFW Pumps P-073A&B	13.7	13.7	13.7	
Blower F 401	33.5	33.5	33.5	
Boiler Crude Unit-Heater Opening	20.5	20.5	20.5	
Brine Transfer P-085	14.3	14.3	14.3	
Burner H301 North	8.9	8.9	8.9	
Burner H301 South	14.2	14.2	14.2	
Burner H302 North	10.6	10.6	10.6	
Burner H302 South	15.9	15.9	15.9	
Burner H303 North	10.3	10.3	10.3	
Burner H303 South	9.7	9.7	9.7	
Burner H304 North	14.8	14.8	14.8	
Burner H304 South	9.8	9.8	9.8	
Burner H305 North	14.9	14.9	14.9	
Burner H305 South	9.0	9.0	9.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Burner H306 North	7.6	7.6	7.6	
Burner H306 South	8.5	8.5	8.5	
Compressor House C301, C302, C 124-Comp House East 1	21.3	21.3	21.3	
Compressor House C301, C302, C 124-Comp House East 2	18.2	18.2	18.2	
Compressor House C301, C302, C 124-Comp House North	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House South 1	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House South 2	16.4	16.4	16.4	
Compressor House C301, C302, C 124-Comp House West	5.4	5.4	5.4	
Cooling Tower CT 510-CT 510 East Side	14.1	14.1	14.1	
Cooling Tower CT 510-CT 510 West Side	4.8	4.8	4.8	
Cooling Tower CT 511-CT 511 East Side	20.0	20.0	20.0	
Cooling Tower CT 511-CT 511 West Side	13.1	13.1	13.1	
Cooling Tower M 512	8.9	8.9	8.9	
Cooling Tower M 513	9.1	9.1	9.1	
Cooling Tower M 514	8.8	8.8	8.8	
Crude Plant Operation 80 dB/m^2 at 1 m	34.4	34.4	34.4	
Crude Operatoin Truck Truck Traffic	52.0	52.0	52.0	
Crude Operatoin Truck Truck Traffic LPG	33.4	33.4	33.4	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	34.8	34.8	34.8	
Crude Refinery / Renewable Fuels Truck T	46.5	46.4	46.8	
CT Y-600-CT Y-600 North	23.4	23.4	23.4	
CT Y-600-CT Y-600 South	16.3	16.3	16.3	
Deaerator Skid P-058A&B	15.3	15.3	15.3	
Exhaust Stack	26.1	26.1	26.1	
F.G. After Cooler XF-083ABC	20.7	20.7	20.7	
Fan Y-600	31.2	31.2	31.2	
FG Compressor Enclosure-FG Enclosure Roof	10.2	10.2	10.2	
FG Compressor Enclosure-FG Enclosure East	7.8	7.8	7.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	-7.9	-7.9	-7.9	
FG Compressor Enclosure-FG Enclosure North	11.3	11.3	11.3	
FG Compressor Enclosure-FG Enclosure South	-2.1	-2.1	-2.1	
FG Compressor Enclosure-FG Enclosure West	4.4	4.4	4.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	-11.3	-11.3	-11.3	
Fin Fan XF 616 - Above	11.3	11.3	11.3	
Fin Fan XF 616 - Below	23.6	23.6	23.6	
Fin Fan XF 617 - Above	7.8	7.8	7.8	
Fin Fan XF 617 - Below	19.4	19.4	19.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Heater # 5-Heater	13.4	13.4	13.4	
Heater # 5-Heater	14.6	14.6	14.6	
Heater # 5-Heater	13.0	13.0	13.0	
Heater H 601	12.4	12.4	12.4	
Hydro Heater H-402	12.7	12.7	12.7	
ID Fan	21.9	21.9	21.9	
ID Fan 200 HP Motor	18.9	18.9	18.9	
Incinirator Compressor & Motor	10.5	10.5	10.5	
Incinirator Fin Fan	13.7	13.7	13.7	
Lub Oil Cooler XF-061	23.9	23.9	23.9	
Misc pumps motors	20.8	20.8	20.8	
Motor & Pump P - 1502 Splitter Reflux Pu	11.7	11.7	11.7	
Motor & Pump P - 1503 Splitter Bottoms P	11.7	11.7	11.7	
Motor & Pump P - 1504 Splitter Bottoms P	11.7	11.7	11.7	
Motor & Pump P - 1507 Reactor Pump	7.4	7.4	7.4	
Motor & Pump P - 1508 Reactor Pump	11.9	11.9	11.9	
Motor & Pump P - 1511 Stabilizer Reflux	12.2	12.2	12.2	
Motor & Pump P - 1512 Stabilizer Reflux	12.2	12.2	12.2	
Motor & Pump P - 1513 Caustic Circulatin	12.0	12.0	12.0	
Motor & Pump P - 1514 Caustic Circulatin	12.1	12.1	12.1	
Motor & Pump P 120/121	10.6	10.6	10.6	
Motor & Pump P 1505 FRESH FEED PUMPS	11.2	11.2	11.2	
Motor & Pump P 1506 FRESH FEED PUMPS	11.2	11.2	11.2	
Motor & Pump P 1509 Chloride Injection P	7.4	7.4	7.4	
Motor & Pump P 1510 Chloride Injection P	7.5	7.5	7.5	
Motor & Pump P 1601 A	13.1	13.1	13.1	
Motor & Pump P 1601 B	13.1	13.1	13.1	
Motor & Pump P 1602 A	13.0	13.0	13.0	
Motor & Pump P 1602 B	13.1	13.1	13.1	
Motor & Pump P 211/212	8.9	8.9	8.9	
Motor & Pump P 215/214	8.5	8.5	8.5	
Motor & Pump P 216	12.9	12.9	12.9	
Motor & Pump P 217/218	8.0	8.0	8.0	
Motor & Pump P 300	11.5	11.5	11.5	
Motor & Pump P 301	16.5	16.5	16.5	
Motor & Pump P 302	11.5	11.5	11.5	
Motor & Pump P 303	11.5	11.5	11.5	
Motor & Pump P 305	11.1	11.1	11.1	
Motor & Pump P 306	27.4	27.4	27.4	
Motor & Pump P 307	18.4	18.4	18.4	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	16.0	16.0	16.0	
Motor & Pump P 313	16.1	16.1	16.1	
Motor & Pump P 315	19.2	19.2	19.2	
Motor & Pump P 316	19.2	19.2	19.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 317	14.9	14.9	14.9	
Motor & Pump P 318	14.0	14.0	14.0	
Motor & Pump P 319	14.0	14.0	14.0	
Motor & Pump P 327	23.3	23.3	23.3	
Motor & Pump P 328	24.0	24.0	24.0	
Motor & Pump P 329	23.7	23.7	23.7	
Motor & Pump P 451	9.7	9.7	9.7	
Motor & Pump P 453	9.7	9.7	9.7	
Motor & Pump P 454	9.7	9.7	9.7	
Motor & Pump P 457	9.7	9.7	9.7	
Motor & Pump P 458	9.7	9.7	9.7	
Motor & Pump P 459	9.8	9.8	9.8	
Motor & Pump P 56A/B	9.1	9.1	9.1	
P602 100 HP	17.4	17.4	17.4	
P603 60 HP	16.2	16.2	16.2	
P605 40 HP	16.1	16.1	16.1	
P607 15 HP	9.9	9.9	9.9	
P608 15 HP	9.9	9.9	9.9	
P611 15 HP	9.9	9.9	9.9	
P614/615 20 HP	14.9	14.9	14.9	
Rail Cars Bumping 6 times in during delivery	21.5			
Scanner Blower C-084A/B	13.4	13.4	13.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-5.8	-5.8	-5.8	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-8.2	-8.2	-8.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-5.6	-5.6	-5.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-7.0	-7.0	-7.0	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-7.3	-7.3	-7.3	
Solar Turbine T70 Boiler-Boiler East 1	3.6	3.6	3.6	
Solar Turbine T70 Boiler-Boiler East 2	2.7	2.7	2.7	
Solar Turbine T70 Boiler-Boiler North 1	15.7	15.7	15.7	
Solar Turbine T70 Boiler-Boiler North 2	5.0	5.0	5.0	
Solar Turbine T70 Boiler-Boiler Roof	11.1	11.1	11.1	
Solar Turbine T70 Boiler-Boiler South	10.5	10.5	10.5	
Solar Turbine T70 Boiler-Boiler South 2	2.0	2.0	2.0	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	20.6	20.6	20.6	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	26.0	26.0	26.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	23.0	23.0	23.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	21.8	21.8	21.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	10.2	10.2	10.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	10.6	10.6	10.6	
Solar Turbine T70 SCR-SCR Unit Roof	3.8	3.8	3.8	
Solar Turbine T70 SCR-SCR Unit NE	-1.4	-1.4	-1.4	
Solar Turbine T70 SCR-SCR Unit North	4.5	4.5	4.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 SCR-SCR Unit NW	-6.1	-6.1	-6.1	
Solar Turbine T70 SCR-SCR Unit SE	-3.8	-3.8	-3.8	
Solar Turbine T70 SCR-SCR Unit South	-0.4	-0.4	-0.4	
Solar Turbine T70 SCR-SCR Unit SW	-6.2	-6.2	-6.2	
Tank Farm Pump 1	18.4	18.4	18.4	
Tank Farm Pump 2	28.9	28.9	28.9	
Tank Farm Pump 3	18.2	18.2	18.2	
UP Train Locomotive Delivery and Pickup	14.5			
Vaporizer Blower 1	10.5	10.5	10.5	
Vaporizer Blower 2	9.2	9.2	9.2	
Vaporizer Inlet Silencer	-1.3	-1.3	-1.3	
Vaporizer Motor 1	2.3	2.3	2.3	
Vaporizer Motor 2	3.2	3.2	3.2	
Water Treatment Pumps P-056A&B	11.1	11.1	11.1	
XF-1502 Splitter Area 1	19.7	19.7	19.7	
XF-1502 Splitter Area 2	19.9	19.9	19.9	
XF-1504 Splitter Area 1	19.7	19.7	19.7	
XF-1504 Splitter Area 2	20.0	20.0	20.0	
XF - 1601	18.3	18.3	18.3	
XF - 1602	18.4	18.4	18.4	
XF 304, XF 321	29.2	29.2	29.2	
XF 313, XF 314	29.4	29.4	29.4	
XF 335-1, XF 335-2	32.4	32.4	32.4	
XF 503	27.5	27.5	27.5	
XF Module 1510	23.3	23.3	23.3	
XF Module 1519	24.1	24.1	24.1	
Receiver E-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 51.6 dB(A)	Ld 7-19 dB(A)	Leq,N 51.6 dB(A)	Le 19-2
2.8-Open Intake	23.4	23.4	23.4	
2011 Track Mobile switch moving rail cars 33 cars per day	18.9			
Air Compressor C 1	32.8	32.8	32.8	
Air Compressor Pump, Motor Fan CMXF -055	15.4	15.4	15.4	
Asphalt Production	31.5	31.5	31.5	
BFW Pumps P-073A&B	13.8	13.8	13.8	
Blower F 401	33.7	33.7	33.7	
Boiler Crude Unit-Heater Opening	19.8	19.8	19.8	
Brine Transfer P-085	13.9	13.9	13.9	
Burner H301 North	8.8	8.8	8.8	
Burner H301 South	14.3	14.3	14.3	
Burner H302 North	10.3	10.3	10.3	
Burner H302 South	26.6	26.6	26.6	
Burner H303 North	9.9	9.9	9.9	
Burner H303 South	11.6	11.6	11.6	
Burner H304 North	9.8	9.8	9.8	
Burner H304 South	10.3	10.3	10.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Burner H305 North	9.1	9.1	9.1	
Burner H305 South	24.2	24.2	24.2	
Burner H306 North	7.7	7.7	7.7	
Burner H306 South	25.2	25.2	25.2	
Compressor House C301, C302, C 124-Comp House East 1	18.0	18.0	18.0	
Compressor House C301, C302, C 124-Comp House East 2	17.1	17.1	17.1	
Compressor House C301, C302, C 124-Comp House North	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House South 1	27.9	27.9	27.9	
Compressor House C301, C302, C 124-Comp House South 2	22.5	22.5	22.5	
Compressor House C301, C302, C 124-Comp House West	4.6	4.6	4.6	
Cooling Tower CT 510-CT 510 East Side	12.4	12.4	12.4	
Cooling Tower CT 510-CT 510 West Side	4.3	4.3	4.3	
Cooling Tower CT 511-CT 511 East Side	19.9	19.9	19.9	
Cooling Tower CT 511-CT 511 West Side	10.7	10.7	10.7	
Cooling Tower M 512	13.0	13.0	13.0	
Cooling Tower M 513	13.0	13.0	13.0	
Cooling Tower M 514	13.0	13.0	13.0	
Crude Plant Operation 80 dB/m^2 at 1 m	32.7	32.7	32.7	
Crude Operatoin Truck Truck Traffic	48.6	48.6	48.6	
Crude Operatoin Truck Truck Traffic LPG	27.2	27.2	27.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	32.6	32.6	32.6	
Crude Refinery / Renewable Fuels Truck T	46.6	46.5	46.5	
CT Y-600-CT Y-600 North	20.6	20.6	20.6	
CT Y-600-CT Y-600 South	15.8	15.8	15.8	
Deaerator Skid P-058A&B	15.4	15.4	15.4	
Exhaust Stack	24.5	24.5	24.5	
F.G. After Cooler XF-083ABC	20.6	20.6	20.6	
Fan Y-600	26.8	26.8	26.8	
FG Compressor Enclosure-FG Enclosure Roof	10.3	10.3	10.3	
FG Compressor Enclosure-FG Enclosure East	7.8	7.8	7.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	-10.0	-10.0	-10.0	
FG Compressor Enclosure-FG Enclosure North	11.2	11.2	11.2	
FG Compressor Enclosure-FG Enclosure South	-2.5	-2.5	-2.5	
FG Compressor Enclosure-FG Enclosure West	4.4	4.4	4.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	-11.0	-11.0	-11.0	
Fin Fan XF 616 - Above	9.0	9.0	9.0	
Fin Fan XF 616 - Below	22.0	22.0	22.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Fin Fan XF 617 - Above	5.5	5.5	5.5	
Fin Fan XF 617 - Below	17.8	17.8	17.8	
Heater # 5-Heater	14.1	14.1	14.1	
Heater # 5-Heater	14.5	14.5	14.5	
Heater # 5-Heater	13.5	13.5	13.5	
Heater H 601	10.9	10.9	10.9	
Hydro Heater H-402	12.4	12.4	12.4	
ID Fan	22.0	22.0	22.0	
ID Fan 200 HP Motor	19.0	19.0	19.0	
Incinirator Compressor & Motor	11.6	11.6	11.6	
Incinirator Fin Fan	14.8	14.8	14.8	
Lub Oil Cooler XF-061	23.4	23.4	23.4	
Misc pumps motors	17.0	17.0	17.0	
Motor & Pump P - 1502 Splitter Reflux Pu	12.1	12.1	12.1	
Motor & Pump P - 1503 Splitter Bottoms P	7.6	7.6	7.6	
Motor & Pump P - 1504 Splitter Bottoms P	13.1	13.1	13.1	
Motor & Pump P - 1507 Reactor Pump	11.2	11.2	11.2	
Motor & Pump P - 1508 Reactor Pump	11.2	11.2	11.2	
Motor & Pump P - 1511 Stabilizer Reflux	11.9	11.9	11.9	
Motor & Pump P - 1512 Stabilizer Reflux	11.9	11.9	11.9	
Motor & Pump P - 1513 Caustic Circulatin	11.9	11.9	11.9	
Motor & Pump P - 1514 Caustic Circulatin	11.9	11.9	11.9	
Motor & Pump P 120/121	23.0	23.0	23.0	
Motor & Pump P 1505 FRESH FEED PUMPS	7.2	7.2	7.2	
Motor & Pump P 1506 FRESH FEED PUMPS	10.7	10.7	10.7	
Motor & Pump P 1509 Chloride Injection P	18.0	18.0	18.0	
Motor & Pump P 1510 Chloride Injection P	17.9	17.9	17.9	
Motor & Pump P 1601 A	11.1	11.1	11.1	
Motor & Pump P 1601 B	11.1	11.1	11.1	
Motor & Pump P 1602 A	11.1	11.1	11.1	
Motor & Pump P 1602 B	11.3	11.3	11.3	
Motor & Pump P 211/212	9.6	9.6	9.6	
Motor & Pump P 215/214	10.5	10.5	10.5	
Motor & Pump P 216	14.1	14.1	14.1	
Motor & Pump P 217/218	9.6	9.6	9.6	
Motor & Pump P 300	18.1	18.1	18.1	
Motor & Pump P 301	28.9	28.9	28.9	
Motor & Pump P 302	24.3	24.3	24.3	
Motor & Pump P 303	24.3	24.3	24.3	
Motor & Pump P 305	24.9	24.9	24.9	
Motor & Pump P 306	27.7	27.7	27.7	
Motor & Pump P 307	17.6	17.6	17.6	
Motor & Pump P 309	11.9	11.9	11.9	
Motor & Pump P 312	15.6	15.6	15.6	
Motor & Pump P 313	15.4	15.4	15.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 315	18.8	18.8	18.8	
Motor & Pump P 316	14.5	14.5	14.5	
Motor & Pump P 317	18.0	18.0	18.0	
Motor & Pump P 318	16.1	16.1	16.1	
Motor & Pump P 319	13.5	13.5	13.5	
Motor & Pump P 327	23.3	23.3	23.3	
Motor & Pump P 328	24.9	24.9	24.9	
Motor & Pump P 329	23.7	23.7	23.7	
Motor & Pump P 451	10.4	10.4	10.4	
Motor & Pump P 453	12.7	12.7	12.7	
Motor & Pump P 454	10.4	10.4	10.4	
Motor & Pump P 457	6.6	6.6	6.6	
Motor & Pump P 458	10.4	10.4	10.4	
Motor & Pump P 459	10.4	10.4	10.4	
Motor & Pump P 56A/B	7.7	7.7	7.7	
P602 100 HP	16.0	16.0	16.0	
P603 60 HP	15.5	15.5	15.5	
P605 40 HP	15.0	15.0	15.0	
P607 15 HP	11.8	11.8	11.8	
P608 15 HP	11.8	11.8	11.8	
P611 15 HP	11.8	11.8	11.8	
P614/615 20 HP	12.8	12.8	12.8	
Rail Cars Bumping 6 times in during delivery	19.7		31.5	
Scanner Blower C-084A/B	13.5	13.5	13.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-6.5	-6.5	-6.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-8.5	-8.5	-8.5	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-6.3	-6.3	-6.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-7.0	-7.0	-7.0	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-7.5	-7.5	-7.5	
Solar Turbine T70 Boiler-Boiler East 1	3.3	3.3	3.3	
Solar Turbine T70 Boiler-Boiler East 2	2.2	2.2	2.2	
Solar Turbine T70 Boiler-Boiler North 1	15.5	15.5	15.5	
Solar Turbine T70 Boiler-Boiler North 2	4.6	4.6	4.6	
Solar Turbine T70 Boiler-Boiler Roof	10.9	10.9	10.9	
Solar Turbine T70 Boiler-Boiler South	10.5	10.5	10.5	
Solar Turbine T70 Boiler-Boiler South 2	1.9	1.9	1.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	19.9	19.9	19.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	25.8	25.8	25.8	
Solar Turbine T70 Enclosure-T70 Encl. Roof	22.5	22.5	22.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	21.4	21.4	21.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	9.9	9.9	9.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	10.2	10.2	10.2	
Solar Turbine T70 SCR-SCR Unit Roof	3.7	3.7	3.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 SCR-SCR Unit NE	-1.6	-1.6	-1.6	
Solar Turbine T70 SCR-SCR Unit North	4.6	4.6	4.6	
Solar Turbine T70 SCR-SCR Unit NW	-6.3	-6.3	-6.3	
Solar Turbine T70 SCR-SCR Unit SE	-3.5	-3.5	-3.5	
Solar Turbine T70 SCR-SCR Unit South	-0.5	-0.5	-0.5	
Solar Turbine T70 SCR-SCR Unit SW	-6.3	-6.3	-6.3	
Tank Farm Pump 1	18.3	18.3	18.3	
Tank Farm Pump 2	19.7	19.7	19.7	
Tank Farm Pump 3	21.2	21.2	21.2	
UP Train Locomotive Delivery and Pickup	17.2		28.9	
Vaporizer Blower 1	8.5	8.5	8.5	
Vaporizer Blower 2	8.5	8.5	8.5	
Vaporizer Inlet Silencer	-1.7	-1.7	-1.7	
Vaporizer Motor 1	2.2	2.2	2.2	
Vaporizer Motor 2	2.2	2.2	2.2	
Water Treatment Pumps P-056A&B	10.9	10.9	10.9	
XF-1502 Splitter Area 1	20.2	20.2	20.2	
XF-1502 Splitter Area 2	12.6	12.6	12.6	
XF-1504 Splitter Area 1	20.3	20.3	20.3	
XF-1504 Splitter Area 2	12.4	12.4	12.4	
XF - 1601	17.6	17.6	17.6	
XF - 1602	17.7	17.7	17.7	
XF 304, XF 321	32.4	32.4	32.4	
XF 313, XF 314	31.0	31.0	31.0	
XF 335-1, XF 335-2	33.2	33.2	33.2	
XF 503	27.0	27.0	27.0	
XF Module 1510	22.6	22.6	22.6	
XF Module 1519	17.4	17.4	17.4	
Receiver E-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 53.8 dB(A)	Ld 7-19 dB(A)	Leq,N 53.8 dB(A)	Le 19-2
2.8-Open Intake	25.6	25.6	25.6	
2011 Track Mobile switch moving rail cars 33 cars per day	22.3			
Air Compressor C 1	28.9	28.9	28.9	
Air Compressor Pump, Motor Fan CMXF -055	17.8	17.8	17.8	
Asphalt Production	35.0	35.0	35.0	
BFW Pumps P-073A&B	16.2	16.2	16.2	
Blower F 401	35.1	35.1	35.1	
Boiler Crude Unit-Heater Opening	20.4	20.4	20.4	
Brine Transfer P-085	16.2	16.2	16.2	
Burner H301 North	8.8	8.8	8.8	
Burner H301 South	12.7	12.7	12.7	
Burner H302 North	9.6	9.6	9.6	
Burner H302 South	14.3	14.3	14.3	
Burner H303 North	10.0	10.0	10.0	
Burner H303 South	13.3	13.3	13.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Burner H304 North	9.9	9.9	9.9	
Burner H304 South	10.2	10.2	10.2	
Burner H305 North	9.1	9.1	9.1	
Burner H305 South	12.6	12.6	12.6	
Burner H306 North	7.7	7.7	7.7	
Burner H306 South	10.9	10.9	10.9	
Compressor House C301, C302, C 124-Comp House East 1	19.0	19.0	19.0	
Compressor House C301, C302, C 124-Comp House East 2	16.7	16.7	16.7	
Compressor House C301, C302, C 124-Comp House North	17.6	17.6	17.6	
Compressor House C301, C302, C 124-Comp House South 1	28.2	28.2	28.2	
Compressor House C301, C302, C 124-Comp House South 2	19.9	19.9	19.9	
Compressor House C301, C302, C 124-Comp House West	4.4	4.4	4.4	
Cooling Tower CT 510-CT 510 East Side	12.5	12.5	12.5	
Cooling Tower CT 510-CT 510 West Side	4.0	4.0	4.0	
Cooling Tower CT 511-CT 511 East Side	20.3	20.3	20.3	
Cooling Tower CT 511-CT 511 West Side	10.0	10.0	10.0	
Cooling Tower M 512	12.4	12.4	12.4	
Cooling Tower M 513	12.4	12.4	12.4	
Cooling Tower M 514	12.4	12.4	12.4	
Crude Plant Operation 80 dB/m^2 at 1 m	34.8	34.8	34.8	
Crude Operatoin Truck Truck Traffic	47.0	47.0	47.0	
Crude Operatoin Truck Truck Traffic LPG	24.2	24.2	24.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	34.8	34.8	34.8	
Crude Refinery / Renewable Fuels Truck T	52.2	52.2	52.2	
CT Y-600-CT Y-600 North	24.4	24.4	24.4	
CT Y-600-CT Y-600 South	17.0	17.0	17.0	
Deaerator Skid P-058A&B	18.3	18.3	18.3	
Exhaust Stack	29.9	29.9	29.9	
F.G. After Cooler XF-083ABC	22.0	22.0	22.0	
Fan Y-600	28.0	28.0	28.0	
FG Compressor Enclosure-FG Enclosure Roof	11.7	11.7	11.7	
FG Compressor Enclosure-FG Enclosure East	11.5	11.5	11.5	
FG Compressor Enclosure-FG Enclosure East Louver 1	-5.0	-5.0	-5.0	
FG Compressor Enclosure-FG Enclosure North	17.6	17.6	17.6	
FG Compressor Enclosure-FG Enclosure South	-0.7	-0.7	-0.7	
FG Compressor Enclosure-FG Enclosure West	6.7	6.7	6.7	
FG Compressor Enclosure-FG Enclosure West Louver 3	-9.9	-9.9	-9.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Fin Fan XF 616 - Above	11.3	11.3	11.3	
Fin Fan XF 616 - Below	24.8	24.8	24.8	
Fin Fan XF 617 - Above	6.7	6.7	6.7	
Fin Fan XF 617 - Below	19.6	19.6	19.6	
Heater # 5-Heater	15.1	15.1	15.1	
Heater # 5-Heater	15.4	15.4	15.4	
Heater # 5-Heater	13.8	13.8	13.8	
Heater H 601	11.6	11.6	11.6	
Hydro Heater H-402	12.2	12.2	12.2	
ID Fan	21.8	21.8	21.8	
ID Fan 200 HP Motor	15.9	15.9	15.9	
Incinirator Compressor & Motor	14.0	14.0	14.0	
Incinirator Fin Fan	17.0	17.0	17.0	
Lub Oil Cooler XF-061	26.1	26.1	26.1	
Misc pumps motors	15.6	15.6	15.6	
Motor & Pump P - 1502 Splitter Reflux Pu	11.0	11.0	11.0	
Motor & Pump P - 1503 Splitter Bottoms P	11.0	11.0	11.0	
Motor & Pump P - 1504 Splitter Bottoms P	7.8	7.8	7.8	
Motor & Pump P - 1507 Reactor Pump	10.9	10.9	10.9	
Motor & Pump P - 1508 Reactor Pump	10.9	10.9	10.9	
Motor & Pump P - 1511 Stabilizer Reflux	10.6	10.6	10.6	
Motor & Pump P - 1512 Stabilizer Reflux	10.6	10.6	10.6	
Motor & Pump P - 1513 Caustic Circulatin	10.5	10.5	10.5	
Motor & Pump P - 1514 Caustic Circulatin	10.6	10.6	10.6	
Motor & Pump P 120/121	12.1	12.1	12.1	
Motor & Pump P 1505 FRESH FEED PUMPS	7.4	7.4	7.4	
Motor & Pump P 1506 FRESH FEED PUMPS	7.1	7.1	7.1	
Motor & Pump P 1509 Chloride Injection P	10.7	10.7	10.7	
Motor & Pump P 1510 Chloride Injection P	6.7	6.7	6.7	
Motor & Pump P 1601 A	10.9	10.9	10.9	
Motor & Pump P 1601 B	10.9	10.9	10.9	
Motor & Pump P 1602 A	10.9	10.9	10.9	
Motor & Pump P 1602 B	11.1	11.1	11.1	
Motor & Pump P 211/212	7.5	7.5	7.5	
Motor & Pump P 215/214	10.2	10.2	10.2	
Motor & Pump P 216	12.1	12.1	12.1	
Motor & Pump P 217/218	8.5	8.5	8.5	
Motor & Pump P 300	12.9	12.9	12.9	
Motor & Pump P 301	17.9	17.9	17.9	
Motor & Pump P 302	12.7	12.7	12.7	
Motor & Pump P 303	12.7	12.7	12.7	
Motor & Pump P 305	13.1	13.1	13.1	
Motor & Pump P 306	26.6	26.6	26.6	
Motor & Pump P 307	14.1	14.1	14.1	
Motor & Pump P 309	10.7	10.7	10.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 312	14.8	14.8	14.8	
Motor & Pump P 313	14.8	14.8	14.8	
Motor & Pump P 315	17.7	17.7	17.7	
Motor & Pump P 316	18.0	18.0	18.0	
Motor & Pump P 317	17.1	17.1	17.1	
Motor & Pump P 318	17.1	17.1	17.1	
Motor & Pump P 319	11.7	11.7	11.7	
Motor & Pump P 327	22.4	22.4	22.4	
Motor & Pump P 328	22.5	22.5	22.5	
Motor & Pump P 329	22.6	22.6	22.6	
Motor & Pump P 451	10.0	10.0	10.0	
Motor & Pump P 453	6.2	6.2	6.2	
Motor & Pump P 454	10.0	10.0	10.0	
Motor & Pump P 457	6.1	6.1	6.1	
Motor & Pump P 458	10.0	10.0	10.0	
Motor & Pump P 459	9.9	9.9	9.9	
Motor & Pump P 56A/B	7.0	7.0	7.0	
P602 100 HP	18.5	18.5	18.5	
P603 60 HP	17.2	17.2	17.2	
P605 40 HP	17.2	17.2	17.2	
P607 15 HP	14.9	14.9	14.9	
P608 15 HP	14.8	14.8	14.8	
P611 15 HP	14.9	14.9	14.9	
P614/615 20 HP	17.7	17.7	17.7	
Rail Cars Bumping 6 times in during delivery	22.9		34.6	
Scanner Blower C-084A/B	16.3	16.3	16.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-5.2	-5.2	-5.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-6.9	-6.9	-6.9	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-5.4	-5.4	-5.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-6.3	-6.3	-6.3	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-6.4	-6.4	-6.4	
Solar Turbine T70 Boiler-Boiler East 1	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler East 2	3.3	3.3	3.3	
Solar Turbine T70 Boiler-Boiler North 1	15.5	15.5	15.5	
Solar Turbine T70 Boiler-Boiler North 2	4.7	4.7	4.7	
Solar Turbine T70 Boiler-Boiler Roof	11.7	11.7	11.7	
Solar Turbine T70 Boiler-Boiler South	11.7	11.7	11.7	
Solar Turbine T70 Boiler-Boiler South 2	3.4	3.4	3.4	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	20.4	20.4	20.4	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	26.6	26.6	26.6	
Solar Turbine T70 Enclosure-T70 Encl. Roof	23.5	23.5	23.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	22.8	22.8	22.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	11.2	11.2	11.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	10.3	10.3	10.3	
Solar Turbine T70 SCR-SCR Unit Roof	6.2	6.2	6.2	
Solar Turbine T70 SCR-SCR Unit NE	-0.3	-0.3	-0.3	
Solar Turbine T70 SCR-SCR Unit North	1.6	1.6	1.6	
Solar Turbine T70 SCR-SCR Unit NW	-4.5	-4.5	-4.5	
Solar Turbine T70 SCR-SCR Unit SE	0.0	0.0	0.0	
Solar Turbine T70 SCR-SCR Unit South	0.8	0.8	0.8	
Solar Turbine T70 SCR-SCR Unit SW	-5.7	-5.7	-5.7	
Tank Farm Pump 1	19.1	19.1	19.1	
Tank Farm Pump 2	19.6	19.6	19.6	
Tank Farm Pump 3	21.4	21.4	21.4	
UP Train Locomotive Delivery and Pickup	16.6		28.4	
Vaporizer Blower 1	11.4	11.4	11.4	
Vaporizer Blower 2	11.4	11.4	11.4	
Vaporizer Inlet Silencer	0.9	0.9	0.9	
Vaporizer Motor 1	5.2	5.2	5.2	
Vaporizer Motor 2	5.1	5.1	5.1	
Water Treatment Pumps P-056A&B	13.8	13.8	13.8	
XF-1502 Splitter Area 1	18.9	18.9	18.9	
XF-1502 Splitter Area 2	18.9	18.9	18.9	
XF-1504 Splitter Area 1	17.9	17.9	17.9	
XF-1504 Splitter Area 2	18.9	18.9	18.9	
XF - 1601	16.5	16.5	16.5	
XF - 1602	16.5	16.5	16.5	
XF 304, XF 321	27.1	27.1	27.1	
XF 313, XF 314	26.3	26.3	26.3	
XF 335-1, XF 335-2	28.5	28.5	28.5	
XF 503	27.9	27.9	27.9	
XF Module 1510	22.4	22.4	22.4	
XF Module 1519	23.1	23.1	23.1	
Receiver E-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 60.7 dB(A)	Ld 7-19 dB(A)	Leq,N 60.7 dB(A)	Le 19-2
2.8-Open Intake	20.4	20.4	20.4	
2011 Track Mobile switch moving rail cars 33 cars per day	26.8			
Air Compressor C 1	32.3	32.3	32.3	
Air Compressor Pump, Motor Fan CMXF -055	15.3	15.3	15.3	
Asphalt Production	42.4	42.4	42.4	
BFW Pumps P-073A&B	13.0	13.0	13.0	
Blower F 401	33.0	33.0	33.0	
Boiler Crude Unit-Heater Opening	27.2	27.2	27.2	
Brine Transfer P-085	13.1	13.1	13.1	
Burner H301 North	9.2	9.2	9.2	
Burner H301 South	11.9	11.9	11.9	
Burner H302 North	10.1	10.1	10.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Burner H302 South	11.9	11.9	11.9	
Burner H303 North	10.3	10.3	10.3	
Burner H303 South	16.8	16.8	16.8	
Burner H304 North	10.0	10.0	10.0	
Burner H304 South	18.1	18.1	18.1	
Burner H305 North	9.4	9.4	9.4	
Burner H305 South	16.9	16.9	16.9	
Burner H306 North	8.3	8.3	8.3	
Burner H306 South	13.7	13.7	13.7	
Compressor House C301, C302, C 124-Comp House East 1	20.6	20.6	20.6	
Compressor House C301, C302, C 124-Comp House East 2	21.3	21.3	21.3	
Compressor House C301, C302, C 124-Comp House North	15.8	15.8	15.8	
Compressor House C301, C302, C 124-Comp House South 1	32.8	32.8	32.8	
Compressor House C301, C302, C 124-Comp House South 2	26.1	26.1	26.1	
Compressor House C301, C302, C 124-Comp House West	5.9	5.9	5.9	
Cooling Tower CT 510-CT 510 East Side	14.1	14.1	14.1	
Cooling Tower CT 510-CT 510 West Side	5.0	5.0	5.0	
Cooling Tower CT 511-CT 511 East Side	25.3	25.3	25.3	
Cooling Tower CT 511-CT 511 West Side	10.2	10.2	10.2	
Cooling Tower M 512	13.7	13.7	13.7	
Cooling Tower M 513	13.7	13.7	13.7	
Cooling Tower M 514	13.7	13.7	13.7	
Crude Plant Operation 80 dB/m^2 at 1 m	41.1	41.1	41.1	
Crude Operatoin Truck Truck Traffic	42.0	42.0	42.0	
Crude Operatoin Truck Truck Traffic LPG	22.0	22.0	22.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	42.3	42.3	42.3	
Crude Refinery / Renewable Fuels Truck T	60.3	60.3	60.3	
CT Y-600-CT Y-600 North	25.1	25.1	25.1	
CT Y-600-CT Y-600 South	20.0	20.0	20.0	
Deaerator Skid P-058A&B	20.1	20.1	20.1	
Exhaust Stack	29.5	29.5	29.5	
F.G. After Cooler XF-083ABC	23.2	23.2	23.2	
Fan Y-600	28.4	28.4	28.4	
FG Compressor Enclosure-FG Enclosure Roof	12.3	12.3	12.3	
FG Compressor Enclosure-FG Enclosure East	13.5	13.5	13.5	
FG Compressor Enclosure-FG Enclosure East Louver 1	-1.4	-1.4	-1.4	
FG Compressor Enclosure-FG Enclosure North	7.7	7.7	7.7	
FG Compressor Enclosure-FG Enclosure South	9.6	9.6	9.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
FG Compressor Enclosure-FG Enclosure West	6.8	6.8	6.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	-8.2	-8.2	-8.2	
Fin Fan XF 616 - Above	14.0	14.0	14.0	
Fin Fan XF 616 - Below	28.2	28.2	28.2	
Fin Fan XF 617 - Above	11.1	11.1	11.1	
Fin Fan XF 617 - Below	24.6	24.6	24.6	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	17.2	17.2	17.2	
Heater H 601	19.5	19.5	19.5	
Hydro Heater H-402	14.9	14.9	14.9	
ID Fan	23.0	23.0	23.0	
ID Fan 200 HP Motor	16.1	16.1	16.1	
Incinirator Compressor & Motor	15.0	15.0	15.0	
Incinirator Fin Fan	18.3	18.3	18.3	
Lub Oil Cooler XF-061	21.5	21.5	21.5	
Misc pumps motors	18.7	18.7	18.7	
Motor & Pump P - 1502 Splitter Reflux Pu	9.2	9.2	9.2	
Motor & Pump P - 1503 Splitter Bottoms P	16.6	16.6	16.6	
Motor & Pump P - 1504 Splitter Bottoms P	16.6	16.6	16.6	
Motor & Pump P - 1507 Reactor Pump	9.3	9.3	9.3	
Motor & Pump P - 1508 Reactor Pump	16.6	16.6	16.6	
Motor & Pump P - 1511 Stabilizer Reflux	13.5	13.5	13.5	
Motor & Pump P - 1512 Stabilizer Reflux	13.5	13.5	13.5	
Motor & Pump P - 1513 Caustic Circulatin	12.9	12.9	12.9	
Motor & Pump P - 1514 Caustic Circulatin	13.4	13.4	13.4	
Motor & Pump P 120/121	11.0	11.0	11.0	
Motor & Pump P 1505 FRESH FEED PUMPS	17.5	17.5	17.5	
Motor & Pump P 1506 FRESH FEED PUMPS	17.3	17.3	17.3	
Motor & Pump P 1509 Chloride Injection P	12.2	12.2	12.2	
Motor & Pump P 1510 Chloride Injection P	7.7	7.7	7.7	
Motor & Pump P 1601 A	16.5	16.5	16.5	
Motor & Pump P 1601 B	16.4	16.4	16.4	
Motor & Pump P 1602 A	16.4	16.4	16.4	
Motor & Pump P 1602 B	16.6	16.6	16.6	
Motor & Pump P 211/212	7.7	7.7	7.7	
Motor & Pump P 215/214	11.8	11.8	11.8	
Motor & Pump P 216	12.7	12.7	12.7	
Motor & Pump P 217/218	8.7	8.7	8.7	
Motor & Pump P 300	20.1	20.1	20.1	
Motor & Pump P 301	21.4	21.4	21.4	
Motor & Pump P 302	12.4	12.4	12.4	
Motor & Pump P 303	20.2	20.2	20.2	
Motor & Pump P 305	20.7	20.7	20.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 306	27.1	27.1	27.1	
Motor & Pump P 307	14.4	14.4	14.4	
Motor & Pump P 309	15.1	15.1	15.1	
Motor & Pump P 312	16.6	16.6	16.6	
Motor & Pump P 313	16.3	16.3	16.3	
Motor & Pump P 315	20.8	20.8	20.8	
Motor & Pump P 316	18.6	18.6	18.6	
Motor & Pump P 317	18.7	18.7	18.7	
Motor & Pump P 318	18.0	18.0	18.0	
Motor & Pump P 319	15.0	15.0	15.0	
Motor & Pump P 327	25.1	25.1	25.1	
Motor & Pump P 328	23.6	23.6	23.6	
Motor & Pump P 329	23.2	23.2	23.2	
Motor & Pump P 451	11.2	11.2	11.2	
Motor & Pump P 453	8.1	8.1	8.1	
Motor & Pump P 454	11.2	11.2	11.2	
Motor & Pump P 457	8.3	8.3	8.3	
Motor & Pump P 458	11.2	11.2	11.2	
Motor & Pump P 459	11.3	11.3	11.3	
Motor & Pump P 56A/B	9.6	9.6	9.6	
P602 100 HP	20.0	20.0	20.0	
P603 60 HP	18.3	18.3	18.3	
P605 40 HP	18.8	18.8	18.8	
P607 15 HP	15.2	15.2	15.2	
P608 15 HP	15.2	15.2	15.2	
P611 15 HP	15.2	15.2	15.2	
P614/615 20 HP	19.0	19.0	19.0	
Rail Cars Bumping 6 times in during delivery	27.1		38.9	
Scanner Blower C-084A/B	16.2	16.2	16.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-6.3	-6.3	-6.3	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-6.6	-6.6	-6.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-4.4	-4.4	-4.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-2.2	-2.2	-2.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-3.2	-3.2	-3.2	
Solar Turbine T70 Boiler-Boiler East 1	7.5	7.5	7.5	
Solar Turbine T70 Boiler-Boiler East 2	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler North 1	10.2	10.2	10.2	
Solar Turbine T70 Boiler-Boiler North 2	1.8	1.8	1.8	
Solar Turbine T70 Boiler-Boiler Roof	14.0	14.0	14.0	
Solar Turbine T70 Boiler-Boiler South	19.4	19.4	19.4	
Solar Turbine T70 Boiler-Boiler South 2	7.9	7.9	7.9	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	21.8	21.8	21.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	21.0	21.0	21.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	25.9	25.9	25.9	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	28.2	28.2	28.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	9.7	9.7	9.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	14.0	14.0	14.0	
Solar Turbine T70 SCR-SCR Unit Roof	6.2	6.2	6.2	
Solar Turbine T70 SCR-SCR Unit NE	-4.7	-4.7	-4.7	
Solar Turbine T70 SCR-SCR Unit North	-0.6	-0.6	-0.6	
Solar Turbine T70 SCR-SCR Unit NW	-5.8	-5.8	-5.8	
Solar Turbine T70 SCR-SCR Unit SE	1.2	1.2	1.2	
Solar Turbine T70 SCR-SCR Unit South	6.2	6.2	6.2	
Solar Turbine T70 SCR-SCR Unit SW	-1.7	-1.7	-1.7	
Tank Farm Pump 1	32.7	32.7	32.7	
Tank Farm Pump 2	24.8	24.8	24.8	
Tank Farm Pump 3	24.6	24.6	24.6	
UP Train Locomotive Delivery and Pickup	20.9		32.6	
Vaporizer Blower 1	6.1	6.1	6.1	
Vaporizer Blower 2	6.6	6.6	6.6	
Vaporizer Inlet Silencer	-3.2	-3.2	-3.2	
Vaporizer Motor 1	-0.1	-0.1	-0.1	
Vaporizer Motor 2	0.3	0.3	0.3	
Water Treatment Pumps P-056A&B	10.7	10.7	10.7	
XF-1502 Splitter Area 1	15.2	15.2	15.2	
XF-1502 Splitter Area 2	24.6	24.6	24.6	
XF-1504 Splitter Area 1	14.1	14.1	14.1	
XF-1504 Splitter Area 2	24.6	24.6	24.6	
XF - 1601	22.3	22.3	22.3	
XF - 1602	22.3	22.3	22.3	
XF 304, XF 321	30.1	30.1	30.1	
XF 313, XF 314	33.4	33.4	33.4	
XF 335-1, XF 335-2	31.3	31.3	31.3	
XF 503	31.4	31.4	31.4	
XF Module 1510	17.4	17.4	17.4	
XF Module 1519	28.8	28.8	28.8	
Receiver E-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 61.5 dB(A)	Ld 7-19 dB(A)	Leq,N 61.5 dB(A)	Le 19-2
2.8-Open Intake	21.4	21.4	21.4	
2011 Track Mobile switch moving rail cars 33 cars per day	26.6			
Air Compressor C 1	31.2	31.2	31.2	
Air Compressor Pump, Motor Fan CMXF -055	16.0	16.0	16.0	
Asphalt Production	42.9	42.9	42.9	
BFW Pumps P-073A&B	13.6	13.6	13.6	
Blower F 401	33.5	33.5	33.5	
Boiler Crude Unit-Heater Opening	24.3	24.3	24.3	
Brine Transfer P-085	13.7	13.7	13.7	
Burner H301 North	12.3	12.3	12.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Burner H301 South	13.7	13.7	13.7	
Burner H302 North	13.0	13.0	13.0	
Burner H302 South	14.6	14.6	14.6	
Burner H303 North	13.4	13.4	13.4	
Burner H303 South	16.4	16.4	16.4	
Burner H304 North	13.5	13.5	13.5	
Burner H304 South	17.1	17.1	17.1	
Burner H305 North	11.9	11.9	11.9	
Burner H305 South	14.2	14.2	14.2	
Burner H306 North	10.9	10.9	10.9	
Burner H306 South	16.7	16.7	16.7	
Compressor House C301, C302, C 124-Comp House East 1	21.5	21.5	21.5	
Compressor House C301, C302, C 124-Comp House East 2	21.1	21.1	21.1	
Compressor House C301, C302, C 124-Comp House North	18.3	18.3	18.3	
Compressor House C301, C302, C 124-Comp House South 1	32.1	32.1	32.1	
Compressor House C301, C302, C 124-Comp House South 2	27.0	27.0	27.0	
Compressor House C301, C302, C 124-Comp House West	7.0	7.0	7.0	
Cooling Tower CT 510-CT 510 East Side	15.5	15.5	15.5	
Cooling Tower CT 510-CT 510 West Side	6.5	6.5	6.5	
Cooling Tower CT 511-CT 511 East Side	24.1	24.1	24.1	
Cooling Tower CT 511-CT 511 West Side	10.9	10.9	10.9	
Cooling Tower M 512	13.6	13.6	13.6	
Cooling Tower M 513	13.6	13.6	13.6	
Cooling Tower M 514	13.6	13.6	13.6	
Crude Plant Operation 80 dB/m^2 at 1 m	41.5	41.5	41.5	
Crude Operatoin Truck Truck Traffic	44.9	44.9	44.9	
Crude Operatoin Truck Truck Traffic LPG	32.0	32.0	32.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	42.2	42.2	42.2	
Crude Refinery / Renewable Fuels Truck T	61.1	61.1	61.1	
CT Y-600-CT Y-600 North	25.0	25.0	25.0	
CT Y-600-CT Y-600 South	19.9	19.9	19.9	
Deaerator Skid P-058A&B	20.4	20.4	20.4	
Exhaust Stack	29.3	29.3	29.3	
F.G. After Cooler XF-083ABC	24.4	24.4	24.4	
Fan Y-600	27.9	27.9	27.9	
FG Compressor Enclosure-FG Enclosure Roof	11.9	11.9	11.9	
FG Compressor Enclosure-FG Enclosure East	14.4	14.4	14.4	
FG Compressor Enclosure-FG Enclosure East Louver 1	-0.2	-0.2	-0.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
FG Compressor Enclosure-FG Enclosure North	9.1	9.1	9.1	
FG Compressor Enclosure-FG Enclosure South	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure West	8.1	8.1	8.1	
FG Compressor Enclosure-FG Enclosure West Louver 3	-7.0	-7.0	-7.0	
Fin Fan XF 616 - Above	12.2	12.2	12.2	
Fin Fan XF 616 - Below	27.4	27.4	27.4	
Fin Fan XF 617 - Above	9.3	9.3	9.3	
Fin Fan XF 617 - Below	23.7	23.7	23.7	
Heater # 5-Heater	18.1	18.1	18.1	
Heater # 5-Heater	18.3	18.3	18.3	
Heater # 5-Heater	16.5	16.5	16.5	
Heater H 601	18.2	18.2	18.2	
Hydro Heater H-402	17.4	17.4	17.4	
ID Fan	24.7	24.7	24.7	
ID Fan 200 HP Motor	16.6	16.6	16.6	
Incinirator Compressor & Motor	16.1	16.1	16.1	
Incinirator Fin Fan	19.2	19.2	19.2	
Lub Oil Cooler XF-061	21.9	21.9	21.9	
Misc pumps motors	20.8	20.8	20.8	
Motor & Pump P - 1502 Splitter Reflux Pu	11.3	11.3	11.3	
Motor & Pump P - 1503 Splitter Bottoms P	16.2	16.2	16.2	
Motor & Pump P - 1504 Splitter Bottoms P	16.2	16.2	16.2	
Motor & Pump P - 1507 Reactor Pump	11.5	11.5	11.5	
Motor & Pump P - 1508 Reactor Pump	16.1	16.1	16.1	
Motor & Pump P - 1511 Stabilizer Reflux	14.2	14.2	14.2	
Motor & Pump P - 1512 Stabilizer Reflux	14.7	14.7	14.7	
Motor & Pump P - 1513 Caustic Circulatin	14.4	14.4	14.4	
Motor & Pump P - 1514 Caustic Circulatin	14.9	14.9	14.9	
Motor & Pump P 120/121	15.0	15.0	15.0	
Motor & Pump P 1505 FRESH FEED PUMPS	12.7	12.7	12.7	
Motor & Pump P 1506 FRESH FEED PUMPS	15.2	15.2	15.2	
Motor & Pump P 1509 Chloride Injection P	13.2	13.2	13.2	
Motor & Pump P 1510 Chloride Injection P	11.7	11.7	11.7	
Motor & Pump P 1601 A	16.2	16.2	16.2	
Motor & Pump P 1601 B	15.4	15.4	15.4	
Motor & Pump P 1602 A	15.4	15.4	15.4	
Motor & Pump P 1602 B	15.6	15.6	15.6	
Motor & Pump P 211/212	8.8	8.8	8.8	
Motor & Pump P 215/214	11.2	11.2	11.2	
Motor & Pump P 216	14.1	14.1	14.1	
Motor & Pump P 217/218	9.3	9.3	9.3	
Motor & Pump P 300	15.8	15.8	15.8	
Motor & Pump P 301	19.1	19.1	19.1	
Motor & Pump P 302	15.9	15.9	15.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 303	14.3	14.3	14.3	
Motor & Pump P 305	18.4	18.4	18.4	
Motor & Pump P 306	27.3	27.3	27.3	
Motor & Pump P 307	17.1	17.1	17.1	
Motor & Pump P 309	18.4	18.4	18.4	
Motor & Pump P 312	17.5	17.5	17.5	
Motor & Pump P 313	17.3	17.3	17.3	
Motor & Pump P 315	20.9	20.9	20.9	
Motor & Pump P 316	19.6	19.6	19.6	
Motor & Pump P 317	19.6	19.6	19.6	
Motor & Pump P 318	17.9	17.9	17.9	
Motor & Pump P 319	15.1	15.1	15.1	
Motor & Pump P 327	24.3	24.3	24.3	
Motor & Pump P 328	24.0	24.0	24.0	
Motor & Pump P 329	23.7	23.7	23.7	
Motor & Pump P 451	11.2	11.2	11.2	
Motor & Pump P 453	9.4	9.4	9.4	
Motor & Pump P 454	11.2	11.2	11.2	
Motor & Pump P 457	9.7	9.7	9.7	
Motor & Pump P 458	11.2	11.2	11.2	
Motor & Pump P 459	11.6	11.6	11.6	
Motor & Pump P 56A/B	10.2	10.2	10.2	
P602 100 HP	19.1	19.1	19.1	
P603 60 HP	17.9	17.9	17.9	
P605 40 HP	18.0	18.0	18.0	
P607 15 HP	14.8	14.8	14.8	
P608 15 HP	14.8	14.8	14.8	
P611 15 HP	14.8	14.8	14.8	
P614/615 20 HP	18.6	18.6	18.6	
Rail Cars Bumping 6 times in during delivery	26.9		38.7	
Scanner Blower C-084A/B	17.7	17.7	17.7	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-4.8	-4.8	-4.8	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-5.3	-5.3	-5.3	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-3.3	-3.3	-3.3	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-0.7	-0.7	-0.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-1.6	-1.6	-1.6	
Solar Turbine T70 Boiler-Boiler East 1	8.9	8.9	8.9	
Solar Turbine T70 Boiler-Boiler East 2	4.7	4.7	4.7	
Solar Turbine T70 Boiler-Boiler North 1	11.9	11.9	11.9	
Solar Turbine T70 Boiler-Boiler North 2	3.4	3.4	3.4	
Solar Turbine T70 Boiler-Boiler Roof	13.2	13.2	13.2	
Solar Turbine T70 Boiler-Boiler South	18.7	18.7	18.7	
Solar Turbine T70 Boiler-Boiler South 2	8.8	8.8	8.8	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	23.0	23.0	23.0	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	22.6	22.6	22.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. Roof	25.0	25.0	25.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	30.2	30.2	30.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	11.2	11.2	11.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	15.6	15.6	15.6	
Solar Turbine T70 SCR-SCR Unit Roof	5.1	5.1	5.1	
Solar Turbine T70 SCR-SCR Unit NE	-3.8	-3.8	-3.8	
Solar Turbine T70 SCR-SCR Unit North	1.1	1.1	1.1	
Solar Turbine T70 SCR-SCR Unit NW	-4.2	-4.2	-4.2	
Solar Turbine T70 SCR-SCR Unit SE	1.6	1.6	1.6	
Solar Turbine T70 SCR-SCR Unit South	7.4	7.4	7.4	
Solar Turbine T70 SCR-SCR Unit SW	-0.1	-0.1	-0.1	
Tank Farm Pump 1	40.0	40.0	40.0	
Tank Farm Pump 2	38.2	38.2	38.2	
Tank Farm Pump 3	38.4	38.4	38.4	
UP Train Locomotive Delivery and Pickup	20.6		32.4	
Vaporizer Blower 1	6.7	6.7	6.7	
Vaporizer Blower 2	7.1	7.1	7.1	
Vaporizer Inlet Silencer	-3.1	-3.1	-3.1	
Vaporizer Motor 1	0.5	0.5	0.5	
Vaporizer Motor 2	0.8	0.8	0.8	
Water Treatment Pumps P-056A&B	11.1	11.1	11.1	
XF-1502 Splitter Area 1	22.5	22.5	22.5	
XF-1502 Splitter Area 2	22.5	22.5	22.5	
XF-1504 Splitter Area 1	16.5	16.5	16.5	
XF-1504 Splitter Area 2	22.5	22.5	22.5	
XF - 1601	20.2	20.2	20.2	
XF - 1602	20.2	20.2	20.2	
XF 304, XF 321	29.0	29.0	29.0	
XF 313, XF 314	32.4	32.4	32.4	
XF 335-1, XF 335-2	30.0	30.0	30.0	
XF 503	29.3	29.3	29.3	
XF Module 1510	19.8	19.8	19.8	
XF Module 1519	26.8	26.8	26.8	
Receiver S-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 55.8 dB(A)	Ld 7-19 dB(A)	Leq,N 55.8 dB(A)	Le 19-2
2.8-Open Intake	21.1	21.1	21.1	
2011 Track Mobile switch moving rail cars 33 cars per day	21.8			
Air Compressor C 1	35.1	35.1	35.1	
Air Compressor Pump, Motor Fan CMXF -055	13.8	13.8	13.8	
Asphalt Production	36.0	36.0	36.0	
BFW Pumps P-073A&B	11.3	11.3	11.3	
Blower F 401	32.1	32.1	32.1	
Boiler Crude Unit-Heater Opening	18.9	18.9	18.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Brine Transfer P-085	11.2	11.2	11.2	
Burner H301 North	8.8	8.8	8.8	
Burner H301 South	17.1	17.1	17.1	
Burner H302 North	9.5	9.5	9.5	
Burner H302 South	15.8	15.8	15.8	
Burner H303 North	9.9	9.9	9.9	
Burner H303 South	21.7	21.7	21.7	
Burner H304 North	9.8	9.8	9.8	
Burner H304 South	17.2	17.2	17.2	
Burner H305 North	10.1	10.1	10.1	
Burner H305 South	12.7	12.7	12.7	
Burner H306 North	8.2	8.2	8.2	
Burner H306 South	15.6	15.6	15.6	
Compressor House C301, C302, C 124-Comp House East 1	23.4	23.4	23.4	
Compressor House C301, C302, C 124-Comp House East 2	24.1	24.1	24.1	
Compressor House C301, C302, C 124-Comp House North	15.5	15.5	15.5	
Compressor House C301, C302, C 124-Comp House South 1	30.4	30.4	30.4	
Compressor House C301, C302, C 124-Comp House South 2	29.9	29.9	29.9	
Compressor House C301, C302, C 124-Comp House West	5.2	5.2	5.2	
Cooling Tower CT 510-CT 510 East Side	15.6	15.6	15.6	
Cooling Tower CT 510-CT 510 West Side	4.9	4.9	4.9	
Cooling Tower CT 511-CT 511 East Side	24.8	24.8	24.8	
Cooling Tower CT 511-CT 511 West Side	10.0	10.0	10.0	
Cooling Tower M 512	13.1	13.1	13.1	
Cooling Tower M 513	15.6	15.6	15.6	
Cooling Tower M 514	13.1	13.1	13.1	
Crude Plant Operation 80 dB/m^2 at 1 m	37.3	37.3	37.3	
Crude Operatoin Truck Truck Traffic	38.5	38.5	38.5	
Crude Operatoin Truck Truck Traffic LPG	26.2	26.2	26.2	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	38.4	38.4	38.4	
Crude Refinery / Renewable Fuels Truck T	55.2	55.2	55.2	
CT Y-600-CT Y-600 North	17.9	17.9	17.9	
CT Y-600-CT Y-600 South	24.1	24.1	24.1	
Deaerator Skid P-058A&B	19.4	19.4	19.4	
Exhaust Stack	28.4	28.4	28.4	
F.G. After Cooler XF-083ABC	20.9	20.9	20.9	
Fan Y-600	27.8	27.8	27.8	
FG Compressor Enclosure-FG Enclosure Roof	14.3	14.3	14.3	
FG Compressor Enclosure-FG Enclosure East	13.9	13.9	13.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
FG Compressor Enclosure-FG Enclosure East Louver 1	-3.2	-3.2	-3.2	
FG Compressor Enclosure-FG Enclosure North	9.2	9.2	9.2	
FG Compressor Enclosure-FG Enclosure South	6.5	6.5	6.5	
FG Compressor Enclosure-FG Enclosure West	4.8	4.8	4.8	
FG Compressor Enclosure-FG Enclosure West Louver 3	-10.2	-10.2	-10.2	
Fin Fan XF 616 - Above	11.9	11.9	11.9	
Fin Fan XF 616 - Below	27.0	27.0	27.0	
Fin Fan XF 617 - Above	9.0	9.0	9.0	
Fin Fan XF 617 - Below	23.4	23.4	23.4	
Heater # 5-Heater	16.9	16.9	16.9	
Heater # 5-Heater	17.0	17.0	17.0	
Heater # 5-Heater	17.1	17.1	17.1	
Heater H 601	13.6	13.6	13.6	
Hydro Heater H-402	12.9	12.9	12.9	
ID Fan	24.1	24.1	24.1	
ID Fan 200 HP Motor	14.1	14.1	14.1	
Incinirator Compressor & Motor	31.5	31.5	31.5	
Incinirator Fin Fan	34.3	34.3	34.3	
Lub Oil Cooler XF-061	24.0	24.0	24.0	
Misc pumps motors	16.9	16.9	16.9	
Motor & Pump P - 1502 Splitter Reflux Pu	7.5	7.5	7.5	
Motor & Pump P - 1503 Splitter Bottoms P	13.9	13.9	13.9	
Motor & Pump P - 1504 Splitter Bottoms P	13.9	13.9	13.9	
Motor & Pump P - 1507 Reactor Pump	12.1	12.1	12.1	
Motor & Pump P - 1508 Reactor Pump	7.6	7.6	7.6	
Motor & Pump P - 1511 Stabilizer Reflux	13.3	13.3	13.3	
Motor & Pump P - 1512 Stabilizer Reflux	7.3	7.3	7.3	
Motor & Pump P - 1513 Caustic Circulatin	17.1	17.1	17.1	
Motor & Pump P - 1514 Caustic Circulatin	14.4	14.4	14.4	
Motor & Pump P 120/121	9.0	9.0	9.0	
Motor & Pump P 1505 FRESH FEED PUMPS	10.0	10.0	10.0	
Motor & Pump P 1506 FRESH FEED PUMPS	11.3	11.3	11.3	
Motor & Pump P 1509 Chloride Injection P	11.9	11.9	11.9	
Motor & Pump P 1510 Chloride Injection P	7.0	7.0	7.0	
Motor & Pump P 1601 A	13.7	13.7	13.7	
Motor & Pump P 1601 B	13.7	13.7	13.7	
Motor & Pump P 1602 A	14.2	14.2	14.2	
Motor & Pump P 1602 B	16.1	16.1	16.1	
Motor & Pump P 211/212	5.7	5.7	5.7	
Motor & Pump P 215/214	8.8	8.8	8.8	
Motor & Pump P 216	18.4	18.4	18.4	
Motor & Pump P 217/218	5.5	5.5	5.5	
Motor & Pump P 300	10.7	10.7	10.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 301	15.2	15.2	15.2	
Motor & Pump P 302	13.7	13.7	13.7	
Motor & Pump P 303	19.4	19.4	19.4	
Motor & Pump P 305	10.5	10.5	10.5	
Motor & Pump P 306	25.9	25.9	25.9	
Motor & Pump P 307	14.8	14.8	14.8	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	15.8	15.8	15.8	
Motor & Pump P 313	15.7	15.7	15.7	
Motor & Pump P 315	18.4	18.4	18.4	
Motor & Pump P 316	19.3	19.3	19.3	
Motor & Pump P 317	16.8	16.8	16.8	
Motor & Pump P 318	15.9	15.9	15.9	
Motor & Pump P 319	17.5	17.5	17.5	
Motor & Pump P 327	24.6	24.6	24.6	
Motor & Pump P 328	22.0	22.0	22.0	
Motor & Pump P 329	21.7	21.7	21.7	
Motor & Pump P 451	9.8	9.8	9.8	
Motor & Pump P 453	9.6	9.6	9.6	
Motor & Pump P 454	8.0	8.0	8.0	
Motor & Pump P 457	9.6	9.6	9.6	
Motor & Pump P 458	9.7	9.7	9.7	
Motor & Pump P 459	8.0	8.0	8.0	
Motor & Pump P 56A/B	8.2	8.2	8.2	
P602 100 HP	15.3	15.3	15.3	
P603 60 HP	14.3	14.3	14.3	
P605 40 HP	14.3	14.3	14.3	
P607 15 HP	11.0	11.0	11.0	
P608 15 HP	11.0	11.0	11.0	
P611 15 HP	11.1	11.1	11.1	
P614/615 20 HP	16.8	16.8	16.8	
Rail Cars Bumping 6 times in during delivery	22.6		34.4	
Scanner Blower C-084A/B	14.2	14.2	14.2	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-7.2	-7.2	-7.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-8.5	-8.5	-8.5	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-5.9	-5.9	-5.9	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-4.1	-4.1	-4.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-7.4	-7.4	-7.4	
Solar Turbine T70 Boiler-Boiler East 1	4.5	4.5	4.5	
Solar Turbine T70 Boiler-Boiler East 2	0.2	0.2	0.2	
Solar Turbine T70 Boiler-Boiler North 1	10.2	10.2	10.2	
Solar Turbine T70 Boiler-Boiler North 2	1.9	1.9	1.9	
Solar Turbine T70 Boiler-Boiler Roof	14.6	14.6	14.6	
Solar Turbine T70 Boiler-Boiler South	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler South 2	6.5	6.5	6.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	25.8	25.8	25.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	24.0	24.0	24.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	28.2	28.2	28.2	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	25.4	25.4	25.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	9.7	9.7	9.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	10.2	10.2	10.2	
Solar Turbine T70 SCR-SCR Unit Roof	7.1	7.1	7.1	
Solar Turbine T70 SCR-SCR Unit NE	-5.6	-5.6	-5.6	
Solar Turbine T70 SCR-SCR Unit North	-0.7	-0.7	-0.7	
Solar Turbine T70 SCR-SCR Unit NW	-6.2	-6.2	-6.2	
Solar Turbine T70 SCR-SCR Unit SE	0.1	0.1	0.1	
Solar Turbine T70 SCR-SCR Unit South	5.7	5.7	5.7	
Solar Turbine T70 SCR-SCR Unit SW	-6.3	-6.3	-6.3	
Tank Farm Pump 1	19.9	19.9	19.9	
Tank Farm Pump 2	19.2	19.2	19.2	
Tank Farm Pump 3	19.3	19.3	19.3	
UP Train Locomotive Delivery and Pickup	18.4		30.1	
Vaporizer Blower 1	4.4	4.4	4.4	
Vaporizer Blower 2	5.5	5.5	5.5	
Vaporizer Inlet Silencer	-3.8	-3.8	-3.8	
Vaporizer Motor 1	-1.7	-1.7	-1.7	
Vaporizer Motor 2	-0.6	-0.6	-0.6	
Water Treatment Pumps P-056A&B	8.7	8.7	8.7	
XF-1502 Splitter Area 1	24.6	24.6	24.6	
XF-1502 Splitter Area 2	24.6	24.6	24.6	
XF-1504 Splitter Area 1	24.6	24.6	24.6	
XF-1504 Splitter Area 2	24.6	24.6	24.6	
XF - 1601	22.6	22.6	22.6	
XF - 1602	22.6	22.6	22.6	
XF 304, XF 321	29.5	29.5	29.5	
XF 313, XF 314	34.4	34.4	34.4	
XF 335-1, XF 335-2	32.4	32.4	32.4	
XF 503	34.2	34.2	34.2	
XF Module 1510	20.0	20.0	20.0	
XF Module 1519	28.8	28.8	28.8	
Receiver S-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 51.8 dB(A)	Ld 7-19 dB(A)	Leq,N 51.8 dB(A)	Le 19-2
2.8-Open Intake	18.8	18.8	18.8	
2011 Track Mobile switch moving rail cars 33 cars per day	20.9			
Air Compressor C 1	27.8	27.8	27.8	
Air Compressor Pump, Motor Fan CMXF -055	14.3	14.3	14.3	
Asphalt Production	32.2	32.2	32.2	
BFW Pumps P-073A&B	11.8	11.8	11.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Blower F 401	31.0	31.0	31.0	
Boiler Crude Unit-Heater Opening	20.7	20.7	20.7	
Brine Transfer P-085	13.8	13.8	13.8	
Burner H301 North	9.7	9.7	9.7	
Burner H301 South	12.0	12.0	12.0	
Burner H302 North	10.4	10.4	10.4	
Burner H302 South	12.1	12.1	12.1	
Burner H303 North	10.6	10.6	10.6	
Burner H303 South	13.6	13.6	13.6	
Burner H304 North	11.2	11.2	11.2	
Burner H304 South	13.6	13.6	13.6	
Burner H305 North	10.8	10.8	10.8	
Burner H305 South	12.5	12.5	12.5	
Burner H306 North	9.1	9.1	9.1	
Burner H306 South	11.8	11.8	11.8	
Compressor House C301, C302, C 124-Comp House East 1	20.3	20.3	20.3	
Compressor House C301, C302, C 124-Comp House East 2	15.6	15.6	15.6	
Compressor House C301, C302, C 124-Comp House North	13.3	13.3	13.3	
Compressor House C301, C302, C 124-Comp House South 1	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House South 2	24.1	24.1	24.1	
Compressor House C301, C302, C 124-Comp House West	5.1	5.1	5.1	
Cooling Tower CT 510-CT 510 East Side	14.7	14.7	14.7	
Cooling Tower CT 510-CT 510 West Side	4.9	4.9	4.9	
Cooling Tower CT 511-CT 511 East Side	20.2	20.2	20.2	
Cooling Tower CT 511-CT 511 West Side	12.2	12.2	12.2	
Cooling Tower M 512	12.4	12.4	12.4	
Cooling Tower M 513	12.4	12.4	12.4	
Cooling Tower M 514	10.0	10.0	10.0	
Crude Plant Operation 80 dB/m^2 at 1 m	35.5	35.5	35.5	
Crude Operatoin Truck Truck Traffic	36.2	36.2	36.2	
Crude Operatoin Truck Truck Traffic LPG	23.5	23.5	23.5	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	36.3	36.3	36.3	
Crude Refinery / Renewable Fuels Truck T	50.7	50.6	50.9	
CT Y-600-CT Y-600 North	19.0	19.0	19.0	
CT Y-600-CT Y-600 South	25.3	25.3	25.3	
Deaerator Skid P-058A&B	12.8	12.8	12.8	
Exhaust Stack	22.2	22.2	22.2	
F.G. After Cooler XF-083ABC	19.5	19.5	19.5	
Fan Y-600	28.6	28.6	28.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
FG Compressor Enclosure-FG Enclosure Roof	9.3	9.3	9.3	
FG Compressor Enclosure-FG Enclosure East	8.1	8.1	8.1	
FG Compressor Enclosure-FG Enclosure East Louver 1	-8.1	-8.1	-8.1	
FG Compressor Enclosure-FG Enclosure North	7.0	7.0	7.0	
FG Compressor Enclosure-FG Enclosure South	1.6	1.6	1.6	
FG Compressor Enclosure-FG Enclosure West	4.5	4.5	4.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	-9.7	-9.7	-9.7	
Fin Fan XF 616 - Above	11.0	11.0	11.0	
Fin Fan XF 616 - Below	28.0	28.0	28.0	
Fin Fan XF 617 - Above	7.9	7.9	7.9	
Fin Fan XF 617 - Below	24.3	24.3	24.3	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	18.7	18.7	18.7	
Heater H 601	13.5	13.5	13.5	
Hydro Heater H-402	13.0	13.0	13.0	
ID Fan	24.4	24.4	24.4	
ID Fan 200 HP Motor	14.0	14.0	14.0	
Incinirator Compressor & Motor	34.4	34.4	34.4	
Incinirator Fin Fan	37.1	37.1	37.1	
Lub Oil Cooler XF-061	19.3	19.3	19.3	
Misc pumps motors	15.2	15.2	15.2	
Motor & Pump P - 1502 Splitter Reflux Pu	8.7	8.7	8.7	
Motor & Pump P - 1503 Splitter Bottoms P	9.5	9.5	9.5	
Motor & Pump P - 1504 Splitter Bottoms P	9.6	9.6	9.6	
Motor & Pump P - 1507 Reactor Pump	10.9	10.9	10.9	
Motor & Pump P - 1508 Reactor Pump	10.0	10.0	10.0	
Motor & Pump P - 1511 Stabilizer Reflux	8.5	8.5	8.5	
Motor & Pump P - 1512 Stabilizer Reflux	9.7	9.7	9.7	
Motor & Pump P - 1513 Caustic Circulatin	9.8	9.8	9.8	
Motor & Pump P - 1514 Caustic Circulatin	9.9	9.9	9.9	
Motor & Pump P 120/121	10.5	10.5	10.5	
Motor & Pump P 1505 FRESH FEED PUMPS	10.2	10.2	10.2	
Motor & Pump P 1506 FRESH FEED PUMPS	10.4	10.4	10.4	
Motor & Pump P 1509 Chloride Injection P	10.1	10.1	10.1	
Motor & Pump P 1510 Chloride Injection P	10.1	10.1	10.1	
Motor & Pump P 1601 A	10.2	10.2	10.2	
Motor & Pump P 1601 B	10.2	10.2	10.2	
Motor & Pump P 1602 A	10.2	10.2	10.2	
Motor & Pump P 1602 B	10.5	10.5	10.5	
Motor & Pump P 211/212	7.1	7.1	7.1	
Motor & Pump P 215/214	8.1	8.1	8.1	
Motor & Pump P 216	11.5	11.5	11.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 217/218	5.5	5.5	5.5	
Motor & Pump P 300	9.4	9.4	9.4	
Motor & Pump P 301	14.3	14.3	14.3	
Motor & Pump P 302	9.5	9.5	9.5	
Motor & Pump P 303	10.0	10.0	10.0	
Motor & Pump P 305	10.5	10.5	10.5	
Motor & Pump P 306	24.6	24.6	24.6	
Motor & Pump P 307	15.1	15.1	15.1	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	14.6	14.6	14.6	
Motor & Pump P 313	14.6	14.6	14.6	
Motor & Pump P 315	15.8	15.8	15.8	
Motor & Pump P 316	18.1	18.1	18.1	
Motor & Pump P 317	17.7	17.7	17.7	
Motor & Pump P 318	13.7	13.7	13.7	
Motor & Pump P 319	13.7	13.7	13.7	
Motor & Pump P 327	24.6	24.6	24.6	
Motor & Pump P 328	23.0	23.0	23.0	
Motor & Pump P 329	22.2	22.2	22.2	
Motor & Pump P 451	6.6	6.6	6.6	
Motor & Pump P 453	8.1	8.1	8.1	
Motor & Pump P 454	6.6	6.6	6.6	
Motor & Pump P 457	8.1	8.1	8.1	
Motor & Pump P 458	6.6	6.6	6.6	
Motor & Pump P 459	6.6	6.6	6.6	
Motor & Pump P 56A/B	7.8	7.8	7.8	
P602 100 HP	15.7	15.7	15.7	
P603 60 HP	15.4	15.4	15.4	
P605 40 HP	15.4	15.4	15.4	
P607 15 HP	12.4	12.4	12.4	
P608 15 HP	12.4	12.4	12.4	
P611 15 HP	12.4	12.4	12.4	
P614/615 20 HP	18.1	18.1	18.1	
Rail Cars Bumping 6 times in during delivery	21.7			
Scanner Blower C-084A/B	12.8	12.8	12.8	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-7.4	-7.4	-7.4	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-8.9	-8.9	-8.9	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-7.5	-7.5	-7.5	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-5.2	-5.2	-5.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-7.8	-7.8	-7.8	
Solar Turbine T70 Boiler-Boiler East 1	2.3	2.3	2.3	
Solar Turbine T70 Boiler-Boiler East 2	-0.7	-0.7	-0.7	
Solar Turbine T70 Boiler-Boiler North 1	9.9	9.9	9.9	
Solar Turbine T70 Boiler-Boiler North 2	1.5	1.5	1.5	
Solar Turbine T70 Boiler-Boiler Roof	8.9	8.9	8.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Boiler-Boiler South	12.5	12.5	12.5	
Solar Turbine T70 Boiler-Boiler South 2	3.7	3.7	3.7	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	17.8	17.8	17.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	21.7	21.7	21.7	
Solar Turbine T70 Enclosure-T70 Encl. Roof	19.9	19.9	19.9	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	22.6	22.6	22.6	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	9.8	9.8	9.8	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	10.5	10.5	10.5	
Solar Turbine T70 SCR-SCR Unit Roof	0.9	0.9	0.9	
Solar Turbine T70 SCR-SCR Unit NE	-6.6	-6.6	-6.6	
Solar Turbine T70 SCR-SCR Unit North	-1.1	-1.1	-1.1	
Solar Turbine T70 SCR-SCR Unit NW	-6.6	-6.6	-6.6	
Solar Turbine T70 SCR-SCR Unit SE	-2.2	-2.2	-2.2	
Solar Turbine T70 SCR-SCR Unit South	1.3	1.3	1.3	
Solar Turbine T70 SCR-SCR Unit SW	-6.5	-6.5	-6.5	
Tank Farm Pump 1	19.2	19.2	19.2	
Tank Farm Pump 2	18.6	18.6	18.6	
Tank Farm Pump 3	19.9	19.9	19.9	
UP Train Locomotive Delivery and Pickup	15.5			
Vaporizer Blower 1	4.8	4.8	4.8	
Vaporizer Blower 2	5.2	5.2	5.2	
Vaporizer Inlet Silencer	-5.7	-5.7	-5.7	
Vaporizer Motor 1	-0.9	-0.9	-0.9	
Vaporizer Motor 2	-0.9	-0.9	-0.9	
Water Treatment Pumps P-056A&B	8.7	8.7	8.7	
XF-1502 Splitter Area 1	18.9	18.9	18.9	
XF-1502 Splitter Area 2	19.0	19.0	19.0	
XF-1504 Splitter Area 1	18.9	18.9	18.9	
XF-1504 Splitter Area 2	19.0	19.0	19.0	
XF - 1601	16.4	16.4	16.4	
XF - 1602	16.4	16.4	16.4	
XF 304, XF 321	27.7	27.7	27.7	
XF 313, XF 314	27.5	27.5	27.5	
XF 335-1, XF 335-2	29.2	29.2	29.2	
XF 503	26.6	26.6	26.6	
XF Module 1510	22.9	22.9	22.9	
XF Module 1519	23.4	23.4	23.4	
Receiver S-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 49.4 dB(A)	Ld 7-19 dB(A)	Leq,N 49.2 dB(A)	Le 19-2
2.8-Open Intake	18.7	18.7	18.7	
2011 Track Mobile switch moving rail cars 33 cars per day	24.3			
Air Compressor C 1	29.3	29.3	29.3	
Air Compressor Pump, Motor Fan CMXF -055	15.3	15.3	15.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Asphalt Production	32.4	32.4	32.4	
BFW Pumps P-073A&B	13.9	13.9	13.9	
Blower F 401	30.9	30.9	30.9	
Boiler Crude Unit-Heater Opening	23.6	23.6	23.6	
Brine Transfer P-085	15.6	15.6	15.6	
Burner H301 North	10.3	10.3	10.3	
Burner H301 South	12.3	12.3	12.3	
Burner H302 North	11.0	11.0	11.0	
Burner H302 South	13.0	13.0	13.0	
Burner H303 North	12.1	12.1	12.1	
Burner H303 South	13.8	13.8	13.8	
Burner H304 North	12.2	12.2	12.2	
Burner H304 South	13.4	13.4	13.4	
Burner H305 North	11.2	11.2	11.2	
Burner H305 South	13.2	13.2	13.2	
Burner H306 North	9.5	9.5	9.5	
Burner H306 South	12.5	12.5	12.5	
Compressor House C301, C302, C 124-Comp House East 1	20.6	20.6	20.6	
Compressor House C301, C302, C 124-Comp House East 2	15.4	15.4	15.4	
Compressor House C301, C302, C 124-Comp House North	13.3	13.3	13.3	
Compressor House C301, C302, C 124-Comp House South 1	27.8	27.8	27.8	
Compressor House C301, C302, C 124-Comp House South 2	24.0	24.0	24.0	
Compressor House C301, C302, C 124-Comp House West	5.4	5.4	5.4	
Cooling Tower CT 510-CT 510 East Side	15.2	15.2	15.2	
Cooling Tower CT 510-CT 510 West Side	5.0	5.0	5.0	
Cooling Tower CT 511-CT 511 East Side	19.9	19.9	19.9	
Cooling Tower CT 511-CT 511 West Side	12.7	12.7	12.7	
Cooling Tower M 512	12.9	12.9	12.9	
Cooling Tower M 513	12.9	12.9	12.9	
Cooling Tower M 514	10.6	10.6	10.6	
Crude Plant Operation 80 dB/m^2 at 1 m	38.5	38.5	38.5	
Crude Operatoin Truck Truck Traffic	33.6	33.6	33.6	
Crude Operatoin Truck Truck Traffic LPG	18.7	18.7	18.7	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	38.6	38.6	38.6	
Crude Refinery / Renewable Fuels Truck T	46.0	45.9	46.7	
CT Y-600-CT Y-600 North	20.1	20.1	20.1	
CT Y-600-CT Y-600 South	30.2	30.2	30.2	
Deaerator Skid P-058A&B	13.5	13.5	13.5	
Exhaust Stack	22.6	22.6	22.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
F.G. After Cooler XF-083ABC	19.9	19.9	19.9	
Fan Y-600	28.7	28.7	28.7	
FG Compressor Enclosure-FG Enclosure Roof	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure East	8.8	8.8	8.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	-6.1	-6.1	-6.1	
FG Compressor Enclosure-FG Enclosure North	7.3	7.3	7.3	
FG Compressor Enclosure-FG Enclosure South	0.1	0.1	0.1	
FG Compressor Enclosure-FG Enclosure West	4.5	4.5	4.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	-8.8	-8.8	-8.8	
Fin Fan XF 616 - Above	13.0	13.0	13.0	
Fin Fan XF 616 - Below	31.8	31.8	31.8	
Fin Fan XF 617 - Above	9.7	9.7	9.7	
Fin Fan XF 617 - Below	28.0	28.0	28.0	
Heater # 5-Heater	20.4	20.4	20.4	
Heater # 5-Heater	20.6	20.6	20.6	
Heater # 5-Heater	21.6	21.6	21.6	
Heater H 601	22.0	22.0	22.0	
Hydro Heater H-402	16.6	16.6	16.6	
ID Fan	24.2	24.2	24.2	
ID Fan 200 HP Motor	15.3	15.3	15.3	
Incinirator Compressor & Motor	36.4	36.4	36.4	
Incinirator Fin Fan	39.1	39.1	39.1	
Lub Oil Cooler XF-061	19.6	19.6	19.6	
Misc pumps motors	17.8	17.8	17.8	
Motor & Pump P - 1502 Splitter Reflux Pu	10.0	10.0	10.0	
Motor & Pump P - 1503 Splitter Bottoms P	10.0	10.0	10.0	
Motor & Pump P - 1504 Splitter Bottoms P	10.0	10.0	10.0	
Motor & Pump P - 1507 Reactor Pump	12.0	12.0	12.0	
Motor & Pump P - 1508 Reactor Pump	11.3	11.3	11.3	
Motor & Pump P - 1511 Stabilizer Reflux	9.9	9.9	9.9	
Motor & Pump P - 1512 Stabilizer Reflux	10.5	10.5	10.5	
Motor & Pump P - 1513 Caustic Circulatin	10.1	10.1	10.1	
Motor & Pump P - 1514 Caustic Circulatin	10.1	10.1	10.1	
Motor & Pump P 120/121	11.3	11.3	11.3	
Motor & Pump P 1505 FRESH FEED PUMPS	9.6	9.6	9.6	
Motor & Pump P 1506 FRESH FEED PUMPS	12.0	12.0	12.0	
Motor & Pump P 1509 Chloride Injection P	9.6	9.6	9.6	
Motor & Pump P 1510 Chloride Injection P	9.6	9.6	9.6	
Motor & Pump P 1601 A	10.5	10.5	10.5	
Motor & Pump P 1601 B	10.5	10.5	10.5	
Motor & Pump P 1602 A	10.5	10.5	10.5	
Motor & Pump P 1602 B	10.8	10.8	10.8	
Motor & Pump P 211/212	7.5	7.5	7.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 215/214	7.0	7.0	7.0	
Motor & Pump P 216	11.9	11.9	11.9	
Motor & Pump P 217/218	7.6	7.6	7.6	
Motor & Pump P 300	10.2	10.2	10.2	
Motor & Pump P 301	14.9	14.9	14.9	
Motor & Pump P 302	10.7	10.7	10.7	
Motor & Pump P 303	9.9	9.9	9.9	
Motor & Pump P 305	10.6	10.6	10.6	
Motor & Pump P 306	25.4	25.4	25.4	
Motor & Pump P 307	15.5	15.5	15.5	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	15.1	15.1	15.1	
Motor & Pump P 313	15.2	15.2	15.2	
Motor & Pump P 315	17.0	17.0	17.0	
Motor & Pump P 316	18.3	18.3	18.3	
Motor & Pump P 317	18.8	18.8	18.8	
Motor & Pump P 318	14.2	14.2	14.2	
Motor & Pump P 319	14.1	14.1	14.1	
Motor & Pump P 327	25.5	25.5	25.5	
Motor & Pump P 328	22.7	22.7	22.7	
Motor & Pump P 329	22.8	22.8	22.8	
Motor & Pump P 451	7.2	7.2	7.2	
Motor & Pump P 453	7.6	7.6	7.6	
Motor & Pump P 454	7.2	7.2	7.2	
Motor & Pump P 457	8.7	8.7	8.7	
Motor & Pump P 458	7.2	7.2	7.2	
Motor & Pump P 459	7.2	7.2	7.2	
Motor & Pump P 56A/B	7.6	7.6	7.6	
P602 100 HP	16.5	16.5	16.5	
P603 60 HP	16.9	16.9	16.9	
P605 40 HP	16.9	16.9	16.9	
P607 15 HP	14.5	14.5	14.5	
P608 15 HP	13.2	13.2	13.2	
P611 15 HP	13.0	13.0	13.0	
P614/615 20 HP	17.2	17.2	17.2	
Rail Cars Bumping 6 times in during delivery	26.1			
Scanner Blower C-084A/B	15.3	15.3	15.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-7.1	-7.1	-7.1	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-8.6	-8.6	-8.6	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	-8.0	-8.0	-8.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	-5.4	-5.4	-5.4	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-7.4	-7.4	-7.4	
Solar Turbine T70 Boiler-Boiler East 1	2.6	2.6	2.6	
Solar Turbine T70 Boiler-Boiler East 2	-0.4	-0.4	-0.4	
Solar Turbine T70 Boiler-Boiler North 1	10.2	10.2	10.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Boiler-Boiler North 2	1.9	1.9	1.9	
Solar Turbine T70 Boiler-Boiler Roof	7.5	7.5	7.5	
Solar Turbine T70 Boiler-Boiler South	12.2	12.2	12.2	
Solar Turbine T70 Boiler-Boiler South 2	3.2	3.2	3.2	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	18.1	18.1	18.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	22.3	22.3	22.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	19.8	19.8	19.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	22.9	22.9	22.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	10.4	10.4	10.4	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	11.0	11.0	11.0	
Solar Turbine T70 SCR-SCR Unit Roof	0.2	0.2	0.2	
Solar Turbine T70 SCR-SCR Unit NE	-6.4	-6.4	-6.4	
Solar Turbine T70 SCR-SCR Unit North	-0.8	-0.8	-0.8	
Solar Turbine T70 SCR-SCR Unit NW	-6.3	-6.3	-6.3	
Solar Turbine T70 SCR-SCR Unit SE	-2.8	-2.8	-2.8	
Solar Turbine T70 SCR-SCR Unit South	1.3	1.3	1.3	
Solar Turbine T70 SCR-SCR Unit SW	-6.2	-6.2	-6.2	
Tank Farm Pump 1	18.1	18.1	18.1	
Tank Farm Pump 2	19.7	19.7	19.7	
Tank Farm Pump 3	18.7	18.7	18.7	
UP Train Locomotive Delivery and Pickup	14.8			
Vaporizer Blower 1	5.7	5.7	5.7	
Vaporizer Blower 2	5.8	5.8	5.8	
Vaporizer Inlet Silencer	-5.9	-5.9	-5.9	
Vaporizer Motor 1	0.1	0.1	0.1	
Vaporizer Motor 2	0.1	0.1	0.1	
Water Treatment Pumps P-056A&B	11.1	11.1	11.1	
XF-1502 Splitter Area 1	17.6	17.6	17.6	
XF-1502 Splitter Area 2	17.6	17.6	17.6	
XF-1504 Splitter Area 1	17.6	17.6	17.6	
XF-1504 Splitter Area 2	17.7	17.7	17.7	
XF - 1601	15.8	15.8	15.8	
XF - 1602	15.8	15.8	15.8	
XF 304, XF 321	26.1	26.1	26.1	
XF 313, XF 314	25.3	25.3	25.3	
XF 335-1, XF 335-2	27.0	27.0	27.0	
XF 503	25.7	25.7	25.7	
XF Module 1510	21.4	21.4	21.4	
XF Module 1519	22.0	22.0	22.0	
Receiver S-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 59.1 dB(A)	Ld 7-19 dB(A)	Leq,N 59.1 dB(A)	Le 19-2
2.8-Open Intake	23.7	23.7	23.7	
2011 Track Mobile switch moving rail cars 33 cars per day	31.7			

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Air Compressor C 1	34.6	34.6	34.6	
Air Compressor Pump, Motor Fan CMXF -055	20.4	20.4	20.4	
Asphalt Production	43.4	43.4	43.4	
BFW Pumps P-073A&B	18.5	18.5	18.5	
Blower F 401	36.9	36.9	36.9	
Boiler Crude Unit-Heater Opening	29.9	29.9	29.9	
Brine Transfer P-085	22.2	22.2	22.2	
Burner H301 North	11.8	11.8	11.8	
Burner H301 South	16.0	16.0	16.0	
Burner H302 North	13.1	13.1	13.1	
Burner H302 South	23.2	23.2	23.2	
Burner H303 North	16.4	16.4	16.4	
Burner H303 South	20.9	20.9	20.9	
Burner H304 North	14.1	14.1	14.1	
Burner H304 South	19.6	19.6	19.6	
Burner H305 North	16.6	16.6	16.6	
Burner H305 South	16.5	16.5	16.5	
Burner H306 North	11.3	11.3	11.3	
Burner H306 South	21.0	21.0	21.0	
Compressor House C301, C302, C 124-Comp House East 1	28.4	28.4	28.4	
Compressor House C301, C302, C 124-Comp House East 2	25.1	25.1	25.1	
Compressor House C301, C302, C 124-Comp House North	20.9	20.9	20.9	
Compressor House C301, C302, C 124-Comp House South 1	33.6	33.6	33.6	
Compressor House C301, C302, C 124-Comp House South 2	30.5	30.5	30.5	
Compressor House C301, C302, C 124-Comp House West	9.6	9.6	9.6	
Cooling Tower CT 510-CT 510 East Side	21.6	21.6	21.6	
Cooling Tower CT 510-CT 510 West Side	8.8	8.8	8.8	
Cooling Tower CT 511-CT 511 East Side	26.7	26.7	26.7	
Cooling Tower CT 511-CT 511 West Side	16.4	16.4	16.4	
Cooling Tower M 512	18.9	18.9	18.9	
Cooling Tower M 513	23.3	23.3	23.3	
Cooling Tower M 514	18.7	18.7	18.7	
Crude Plant Operation 80 dB/m^2 at 1 m	52.6	52.6	52.6	
Crude Operatoin Truck Truck Traffic	20.1	20.1	20.1	
Crude Operatoin Truck Truck Traffic LPG	27.1	27.1	27.1	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	53.5	53.5	53.5	
Crude Refinery / Renewable Fuels Truck T	47.8	47.4	47.4	
CT Y-600-CT Y-600 North	25.4	25.4	25.4	
CT Y-600-CT Y-600 South	37.4	37.4	37.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Deaerator Skid P-058A&B	29.3	29.3	29.3	
Exhaust Stack	36.1	36.1	36.1	
F.G. After Cooler XF-083ABC	24.6	24.6	24.6	
Fan Y-600	40.5	40.5	40.5	
FG Compressor Enclosure-FG Enclosure Roof	14.1	14.1	14.1	
FG Compressor Enclosure-FG Enclosure East	13.8	13.8	13.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	1.9	1.9	1.9	
FG Compressor Enclosure-FG Enclosure North	11.8	11.8	11.8	
FG Compressor Enclosure-FG Enclosure South	5.0	5.0	5.0	
FG Compressor Enclosure-FG Enclosure West	8.5	8.5	8.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	-4.7	-4.7	-4.7	
Fin Fan XF 616 - Above	23.3	23.3	23.3	
Fin Fan XF 616 - Below	45.5	45.5	45.5	
Fin Fan XF 617 - Above	20.0	20.0	20.0	
Fin Fan XF 617 - Below	42.3	42.3	42.3	
Heater # 5-Heater	34.3	34.3	34.3	
Heater # 5-Heater	33.8	33.8	33.8	
Heater # 5-Heater	27.8	27.8	27.8	
Heater H 601	25.2	25.2	25.2	
Hydro Heater H-402	21.2	21.2	21.2	
ID Fan	29.0	29.0	29.0	
ID Fan 200 HP Motor	18.2	18.2	18.2	
Incinirator Compressor & Motor	48.5	48.5	48.5	
Incinirator Fin Fan	51.2	51.2	51.2	
Lub Oil Cooler XF-061	24.1	24.1	24.1	
Misc pumps motors	26.1	26.1	26.1	
Motor & Pump P - 1502 Splitter Reflux Pu	13.9	13.9	13.9	
Motor & Pump P - 1503 Splitter Bottoms P	14.1	14.1	14.1	
Motor & Pump P - 1504 Splitter Bottoms P	14.3	14.3	14.3	
Motor & Pump P - 1507 Reactor Pump	15.8	15.8	15.8	
Motor & Pump P - 1508 Reactor Pump	15.9	15.9	15.9	
Motor & Pump P - 1511 Stabilizer Reflux	17.1	17.1	17.1	
Motor & Pump P - 1512 Stabilizer Reflux	15.4	15.4	15.4	
Motor & Pump P - 1513 Caustic Circulatin	13.9	13.9	13.9	
Motor & Pump P - 1514 Caustic Circulatin	13.9	13.9	13.9	
Motor & Pump P 120/121	18.0	18.0	18.0	
Motor & Pump P 1505 FRESH FEED PUMPS	14.1	14.1	14.1	
Motor & Pump P 1506 FRESH FEED PUMPS	14.0	14.0	14.0	
Motor & Pump P 1509 Chloride Injection P	17.5	17.5	17.5	
Motor & Pump P 1510 Chloride Injection P	17.5	17.5	17.5	
Motor & Pump P 1601 A	16.1	16.1	16.1	
Motor & Pump P 1601 B	16.2	16.2	16.2	
Motor & Pump P 1602 A	18.2	18.2	18.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 1602 B	20.5	20.5	20.5	
Motor & Pump P 211/212	17.8	17.8	17.8	
Motor & Pump P 215/214	12.3	12.3	12.3	
Motor & Pump P 216	17.8	17.8	17.8	
Motor & Pump P 217/218	17.6	17.6	17.6	
Motor & Pump P 300	15.4	15.4	15.4	
Motor & Pump P 301	18.3	18.3	18.3	
Motor & Pump P 302	15.6	15.6	15.6	
Motor & Pump P 303	14.6	14.6	14.6	
Motor & Pump P 305	15.1	15.1	15.1	
Motor & Pump P 306	30.9	30.9	30.9	
Motor & Pump P 307	17.0	17.0	17.0	
Motor & Pump P 309	16.0	16.0	16.0	
Motor & Pump P 312	22.0	22.0	22.0	
Motor & Pump P 313	22.0	22.0	22.0	
Motor & Pump P 315	18.7	18.7	18.7	
Motor & Pump P 316	24.1	24.1	24.1	
Motor & Pump P 317	27.9	27.9	27.9	
Motor & Pump P 318	17.3	17.3	17.3	
Motor & Pump P 319	17.4	17.4	17.4	
Motor & Pump P 327	28.0	28.0	28.0	
Motor & Pump P 328	28.3	28.3	28.3	
Motor & Pump P 329	26.1	26.1	26.1	
Motor & Pump P 451	11.8	11.8	11.8	
Motor & Pump P 453	18.8	18.8	18.8	
Motor & Pump P 454	12.7	12.7	12.7	
Motor & Pump P 457	18.8	18.8	18.8	
Motor & Pump P 458	11.8	11.8	11.8	
Motor & Pump P 459	11.9	11.9	11.9	
Motor & Pump P 56A/B	18.1	18.1	18.1	
P602 100 HP	27.3	27.3	27.3	
P603 60 HP	26.9	26.9	26.9	
P605 40 HP	26.9	26.9	26.9	
P607 15 HP	22.3	22.3	22.3	
P608 15 HP	21.3	21.3	21.3	
P611 15 HP	22.7	22.7	22.7	
P614/615 20 HP	29.5	29.5	29.5	
Rail Cars Bumping 6 times in during delivery	33.2		44.9	
Scanner Blower C-084A/B	25.4	25.4	25.4	
Solar Turbine T70 2nd Boiler-2nd Boiler North	-2.0	-2.0	-2.0	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-3.0	-3.0	-3.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	0.7	0.7	0.7	
Solar Turbine T70 2nd Boiler-2nd Boiler South	3.1	3.1	3.1	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	-1.4	-1.4	-1.4	
Solar Turbine T70 Boiler-Boiler East 1	12.8	12.8	12.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 Boiler-Boiler East 2	3.9	3.9	3.9	
Solar Turbine T70 Boiler-Boiler North 1	15.9	15.9	15.9	
Solar Turbine T70 Boiler-Boiler North 2	5.8	5.8	5.8	
Solar Turbine T70 Boiler-Boiler Roof	19.5	19.5	19.5	
Solar Turbine T70 Boiler-Boiler South	22.8	22.8	22.8	
Solar Turbine T70 Boiler-Boiler South 2	12.1	12.1	12.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	23.7	23.7	23.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	27.1	27.1	27.1	
Solar Turbine T70 Enclosure-T70 Encl. Roof	26.3	26.3	26.3	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	29.3	29.3	29.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	14.1	14.1	14.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	16.9	16.9	16.9	
Solar Turbine T70 SCR-SCR Unit Roof	12.1	12.1	12.1	
Solar Turbine T70 SCR-SCR Unit NE	0.9	0.9	0.9	
Solar Turbine T70 SCR-SCR Unit North	5.1	5.1	5.1	
Solar Turbine T70 SCR-SCR Unit NW	-0.5	-0.5	-0.5	
Solar Turbine T70 SCR-SCR Unit SE	7.5	7.5	7.5	
Solar Turbine T70 SCR-SCR Unit South	11.1	11.1	11.1	
Solar Turbine T70 SCR-SCR Unit SW	-1.8	-1.8	-1.8	
Tank Farm Pump 1	20.3	20.3	20.3	
Tank Farm Pump 2	23.4	23.4	23.4	
Tank Farm Pump 3	22.2	22.2	22.2	
UP Train Locomotive Delivery and Pickup	22.1		33.9	
Vaporizer Blower 1	9.0	9.0	9.0	
Vaporizer Blower 2	9.7	9.7	9.7	
Vaporizer Inlet Silencer	-0.3	-0.3	-0.3	
Vaporizer Motor 1	3.2	3.2	3.2	
Vaporizer Motor 2	3.7	3.7	3.7	
Water Treatment Pumps P-056A&B	18.7	18.7	18.7	
XF-1502 Splitter Area 1	23.8	23.8	23.8	
XF-1502 Splitter Area 2	25.9	25.9	25.9	
XF-1504 Splitter Area 1	23.8	23.8	23.8	
XF-1504 Splitter Area 2	23.8	23.8	23.8	
XF - 1601	23.2	23.2	23.2	
XF - 1602	27.2	27.2	27.2	
XF 304, XF 321	33.3	33.3	33.3	
XF 313, XF 314	31.6	31.6	31.6	
XF 335-1, XF 335-2	34.9	34.9	34.9	
XF 503	33.5	33.5	33.5	
XF Module 1510	29.4	29.4	29.4	
XF Module 1519	29.7	29.7	29.7	
Receiver S-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 62.2 dB(A)	Ld 7-19 dB(A)	Leq,N 62.0 dB(A)	Le 19-2
2.8-Open Intake	26.7	26.7	26.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
2011 Track Mobile switch moving rail cars 33 cars per day	40.3			
Air Compressor C 1	36.5	36.5	36.5	
Air Compressor Pump, Motor Fan CMXF -055	22.8	22.8	22.8	
Asphalt Production	48.2	48.2	48.2	
BFW Pumps P-073A&B	22.6	22.6	22.6	
Blower F 401	41.6	41.6	41.6	
Boiler Crude Unit-Heater Opening	40.9	40.9	40.9	
Brine Transfer P-085	24.4	24.4	24.4	
Burner H301 North	18.7	18.7	18.7	
Burner H301 South	20.0	20.0	20.0	
Burner H302 North	17.7	17.7	17.7	
Burner H302 South	21.4	21.4	21.4	
Burner H303 North	23.4	23.4	23.4	
Burner H303 South	24.9	24.9	24.9	
Burner H304 North	20.5	20.5	20.5	
Burner H304 South	25.5	25.5	25.5	
Burner H305 North	19.0	19.0	19.0	
Burner H305 South	21.0	21.0	21.0	
Burner H306 North	16.1	16.1	16.1	
Burner H306 South	19.7	19.7	19.7	
Compressor House C301, C302, C 124-Comp House East 1	33.7	33.7	33.7	
Compressor House C301, C302, C 124-Comp House East 2	28.3	28.3	28.3	
Compressor House C301, C302, C 124-Comp House North	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House South 1	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House South 2	33.9	33.9	33.9	
Compressor House C301, C302, C 124-Comp House West	13.7	13.7	13.7	
Cooling Tower CT 510-CT 510 East Side	29.1	29.1	29.1	
Cooling Tower CT 510-CT 510 West Side	12.8	12.8	12.8	
Cooling Tower CT 511-CT 511 East Side	33.5	33.5	33.5	
Cooling Tower CT 511-CT 511 West Side	18.7	18.7	18.7	
Cooling Tower M 512	25.4	25.4	25.4	
Cooling Tower M 513	25.2	25.2	25.2	
Cooling Tower M 514	25.2	25.2	25.2	
Crude Plant Operation 80 dB/m^2 at 1 m	54.5	54.5	54.5	
Crude Operatoin Truck Truck Traffic	25.2	25.2	25.2	
Crude Operatoin Truck Truck Traffic LPG	30.4	30.4	30.4	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	56.0	56.0	56.0	
Crude Refinery / Renewable Fuels Truck T	51.4	50.8	50.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
CT Y-600-CT Y-600 North	31.5	31.5	31.5	
CT Y-600-CT Y-600 South	47.1	47.1	47.1	
Deaerator Skid P-058A&B	27.4	27.4	27.4	
Exhaust Stack	37.6	37.6	37.6	
F.G. After Cooler XF-083ABC	32.2	32.2	32.2	
Fan Y-600	46.9	46.9	46.9	
FG Compressor Enclosure-FG Enclosure Roof	19.0	19.0	19.0	
FG Compressor Enclosure-FG Enclosure East	14.6	14.6	14.6	
FG Compressor Enclosure-FG Enclosure East Louver 1	3.2	3.2	3.2	
FG Compressor Enclosure-FG Enclosure North	14.3	14.3	14.3	
FG Compressor Enclosure-FG Enclosure South	11.3	11.3	11.3	
FG Compressor Enclosure-FG Enclosure West	12.5	12.5	12.5	
FG Compressor Enclosure-FG Enclosure West Louver 3	-1.3	-1.3	-1.3	
Fin Fan XF 616 - Above	26.6	26.6	26.6	
Fin Fan XF 616 - Below	54.0	54.0	54.0	
Fin Fan XF 617 - Above	22.5	22.5	22.5	
Fin Fan XF 617 - Below	50.2	50.2	50.2	
Heater # 5-Heater	40.5	40.5	40.5	
Heater # 5-Heater	34.7	34.7	34.7	
Heater # 5-Heater	33.3	33.3	33.3	
Heater H 601	40.3	40.3	40.3	
Hydro Heater H-402	27.5	27.5	27.5	
ID Fan	32.7	32.7	32.7	
ID Fan 200 HP Motor	22.2	22.2	22.2	
Incinirator Compressor & Motor	41.1	41.1	41.1	
Incinirator Fin Fan	43.8	43.8	43.8	
Lub Oil Cooler XF-061	30.3	30.3	30.3	
Misc pumps motors	26.5	26.5	26.5	
Motor & Pump P - 1502 Splitter Reflux Pu	18.5	18.5	18.5	
Motor & Pump P - 1503 Splitter Bottoms P	17.9	17.9	17.9	
Motor & Pump P - 1504 Splitter Bottoms P	18.9	18.9	18.9	
Motor & Pump P - 1507 Reactor Pump	20.7	20.7	20.7	
Motor & Pump P - 1508 Reactor Pump	20.3	20.3	20.3	
Motor & Pump P - 1511 Stabilizer Reflux	20.2	20.2	20.2	
Motor & Pump P - 1512 Stabilizer Reflux	20.3	20.3	20.3	
Motor & Pump P - 1513 Caustic Circulatin	19.7	19.7	19.7	
Motor & Pump P - 1514 Caustic Circulatin	20.6	20.6	20.6	
Motor & Pump P 120/121	20.2	20.2	20.2	
Motor & Pump P 1505 FRESH FEED PUMPS	19.5	19.5	19.5	
Motor & Pump P 1506 FRESH FEED PUMPS	19.8	19.8	19.8	
Motor & Pump P 1509 Chloride Injection P	17.3	17.3	17.3	
Motor & Pump P 1510 Chloride Injection P	22.1	22.1	22.1	
Motor & Pump P 1601 A	20.4	20.4	20.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 1601 B	19.9	19.9	19.9	
Motor & Pump P 1602 A	22.2	22.2	22.2	
Motor & Pump P 1602 B	24.4	24.4	24.4	
Motor & Pump P 211/212	19.3	19.3	19.3	
Motor & Pump P 215/214	22.1	22.1	22.1	
Motor & Pump P 216	28.0	28.0	28.0	
Motor & Pump P 217/218	19.0	19.0	19.0	
Motor & Pump P 300	20.5	20.5	20.5	
Motor & Pump P 301	26.3	26.3	26.3	
Motor & Pump P 302	20.4	20.4	20.4	
Motor & Pump P 303	20.6	20.6	20.6	
Motor & Pump P 305	20.6	20.6	20.6	
Motor & Pump P 306	36.5	36.5	36.5	
Motor & Pump P 307	22.5	22.5	22.5	
Motor & Pump P 309	20.8	20.8	20.8	
Motor & Pump P 312	27.7	27.7	27.7	
Motor & Pump P 313	28.2	28.2	28.2	
Motor & Pump P 315	27.4	27.4	27.4	
Motor & Pump P 316	27.7	27.7	27.7	
Motor & Pump P 317	27.8	27.8	27.8	
Motor & Pump P 318	24.0	24.0	24.0	
Motor & Pump P 319	24.1	24.1	24.1	
Motor & Pump P 327	32.7	32.7	32.7	
Motor & Pump P 328	33.6	33.6	33.6	
Motor & Pump P 329	33.9	33.9	33.9	
Motor & Pump P 451	24.7	24.7	24.7	
Motor & Pump P 453	26.3	26.3	26.3	
Motor & Pump P 454	21.4	21.4	21.4	
Motor & Pump P 457	26.4	26.4	26.4	
Motor & Pump P 458	24.8	24.8	24.8	
Motor & Pump P 459	16.7	16.7	16.7	
Motor & Pump P 56A/B	24.1	24.1	24.1	
P602 100 HP	42.7	42.7	42.7	
P603 60 HP	44.0	44.0	44.0	
P605 40 HP	43.3	43.3	43.3	
P607 15 HP	29.7	29.7	29.7	
P608 15 HP	29.5	29.5	29.5	
P611 15 HP	39.2	39.2	39.2	
P614/615 20 HP	33.5	33.5	33.5	
Rail Cars Bumping 6 times in during delivery	41.0		52.7	
Scanner Blower C-084A/B	27.6	27.6	27.6	
Solar Turbine T70 2nd Boiler-2nd Boiler North	0.0	0.0	0.0	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	-1.0	-1.0	-1.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	2.0	2.0	2.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	4.2	4.2	4.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	4.0	4.0	4.0	
Solar Turbine T70 Boiler-Boiler East 1	14.0	14.0	14.0	
Solar Turbine T70 Boiler-Boiler East 2	8.0	8.0	8.0	
Solar Turbine T70 Boiler-Boiler North 1	17.7	17.7	17.7	
Solar Turbine T70 Boiler-Boiler North 2	9.5	9.5	9.5	
Solar Turbine T70 Boiler-Boiler Roof	20.0	20.0	20.0	
Solar Turbine T70 Boiler-Boiler South	23.3	23.3	23.3	
Solar Turbine T70 Boiler-Boiler South 2	13.1	13.1	13.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	30.8	30.8	30.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	34.3	34.3	34.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	34.0	34.0	34.0	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	35.5	35.5	35.5	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	19.9	19.9	19.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	19.6	19.6	19.6	
Solar Turbine T70 SCR-SCR Unit Roof	11.4	11.4	11.4	
Solar Turbine T70 SCR-SCR Unit NE	0.6	0.6	0.6	
Solar Turbine T70 SCR-SCR Unit North	6.4	6.4	6.4	
Solar Turbine T70 SCR-SCR Unit NW	0.9	0.9	0.9	
Solar Turbine T70 SCR-SCR Unit SE	6.4	6.4	6.4	
Solar Turbine T70 SCR-SCR Unit South	11.4	11.4	11.4	
Solar Turbine T70 SCR-SCR Unit SW	5.5	5.5	5.5	
Tank Farm Pump 1	20.3	20.3	20.3	
Tank Farm Pump 2	22.9	22.9	22.9	
Tank Farm Pump 3	24.8	24.8	24.8	
UP Train Locomotive Delivery and Pickup	33.3		45.0	
Vaporizer Blower 1	12.7	12.7	12.7	
Vaporizer Blower 2	13.1	13.1	13.1	
Vaporizer Inlet Silencer	4.1	4.1	4.1	
Vaporizer Motor 1	7.0	7.0	7.0	
Vaporizer Motor 2	7.3	7.3	7.3	
Water Treatment Pumps P-056A&B	20.8	20.8	20.8	
XF-1502 Splitter Area 1	30.9	30.9	30.9	
XF-1502 Splitter Area 2	31.2	31.2	31.2	
XF-1504 Splitter Area 1	31.6	31.6	31.6	
XF-1504 Splitter Area 2	31.0	31.0	31.0	
XF - 1601	30.0	30.0	30.0	
XF - 1602	30.1	30.1	30.1	
XF 304, XF 321	37.8	37.8	37.8	
XF 313, XF 314	34.7	34.7	34.7	
XF 335-1, XF 335-2	40.1	40.1	40.1	
XF 503	38.0	38.0	38.0	
XF Module 1510	34.2	34.2	34.2	
XF Module 1519	28.7	28.7	28.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Receiver S-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 74.4 dB(A)	Ld 7-19 dB(A)	Leq,N 74.3 dB(A)	Le 19-2
2.8-Open Intake	31.5	31.5	31.5	
2011 Track Mobile switch moving rail cars 33 cars per day	50.9			
Air Compressor C 1	42.9	42.9	42.9	
Air Compressor Pump, Motor Fan CMXF -055	30.7	30.7	30.7	
Asphalt Production	52.4	52.4	52.4	
BFW Pumps P-073A&B	27.5	27.5	27.5	
Blower F 401	47.8	47.8	47.8	
Boiler Crude Unit-Heater Opening	55.9	55.9	55.9	
Brine Transfer P-085	26.1	26.1	26.1	
Burner H301 North	16.1	16.1	16.1	
Burner H301 South	22.3	22.3	22.3	
Burner H302 North	17.3	17.3	17.3	
Burner H302 South	26.0	26.0	26.0	
Burner H303 North	29.8	29.8	29.8	
Burner H303 South	32.9	32.9	32.9	
Burner H304 North	25.6	25.6	25.6	
Burner H304 South	34.7	34.7	34.7	
Burner H305 North	20.7	20.7	20.7	
Burner H305 South	31.5	31.5	31.5	
Burner H306 North	17.4	17.4	17.4	
Burner H306 South	29.6	29.6	29.6	
Compressor House C301, C302, C 124-Comp House East 1	40.0	40.0	40.0	
Compressor House C301, C302, C 124-Comp House East 2	38.5	38.5	38.5	
Compressor House C301, C302, C 124-Comp House North	29.6	29.6	29.6	
Compressor House C301, C302, C 124-Comp House South 1	42.1	42.1	42.1	
Compressor House C301, C302, C 124-Comp House South 2	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House West	15.8	15.8	15.8	
Cooling Tower CT 510-CT 510 East Side	36.1	36.1	36.1	
Cooling Tower CT 510-CT 510 West Side	15.3	15.3	15.3	
Cooling Tower CT 511-CT 511 East Side	36.3	36.3	36.3	
Cooling Tower CT 511-CT 511 West Side	17.5	17.5	17.5	
Cooling Tower M 512	34.7	34.7	34.7	
Cooling Tower M 513	31.9	31.9	31.9	
Cooling Tower M 514	34.6	34.6	34.6	
Crude Plant Operation 80 dB/m^2 at 1 m	65.9	65.9	65.9	
Crude Operatoin Truck Truck Traffic	30.1	30.1	30.1	
Crude Operatoin Truck Truck Traffic LPG	34.1	34.1	34.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	66.1	66.1	66.1	
Crude Refinery / Renewable Fuels Truck T	57.7	57.1	57.1	
CT Y-600-CT Y-600 North	44.3	44.3	44.3	
CT Y-600-CT Y-600 South	68.5	68.5	68.5	
Deaerator Skid P-058A&B	36.0	36.0	36.0	
Exhaust Stack	43.4	43.4	43.4	
F.G. After Cooler XF-083ABC	31.8	31.8	31.8	
Fan Y-600	56.4	56.4	56.4	
FG Compressor Enclosure-FG Enclosure Roof	19.9	19.9	19.9	
FG Compressor Enclosure-FG Enclosure East	24.7	24.7	24.7	
FG Compressor Enclosure-FG Enclosure East Louver 1	8.7	8.7	8.7	
FG Compressor Enclosure-FG Enclosure North	19.5	19.5	19.5	
FG Compressor Enclosure-FG Enclosure South	17.4	17.4	17.4	
FG Compressor Enclosure-FG Enclosure West	19.0	19.0	19.0	
FG Compressor Enclosure-FG Enclosure West Louver 3	4.4	4.4	4.4	
Fin Fan XF 616 - Above	32.2	32.2	32.2	
Fin Fan XF 616 - Below	67.0	67.0	67.0	
Fin Fan XF 617 - Above	28.2	28.2	28.2	
Fin Fan XF 617 - Below	61.1	61.1	61.1	
Heater # 5-Heater	50.9	50.9	50.9	
Heater # 5-Heater	53.3	53.3	53.3	
Heater # 5-Heater	53.8	53.8	53.8	
Heater H 601	49.6	49.6	49.6	
Hydro Heater H-402	34.4	34.4	34.4	
ID Fan	34.1	34.1	34.1	
ID Fan 200 HP Motor	24.6	24.6	24.6	
Incinirator Compressor & Motor	37.8	37.8	37.8	
Incinirator Fin Fan	40.2	40.2	40.2	
Lub Oil Cooler XF-061	35.2	35.2	35.2	
Misc pumps motors	29.3	29.3	29.3	
Motor & Pump P - 1502 Splitter Reflux Pu	20.3	20.3	20.3	
Motor & Pump P - 1503 Splitter Bottoms P	19.7	19.7	19.7	
Motor & Pump P - 1504 Splitter Bottoms P	20.6	20.6	20.6	
Motor & Pump P - 1507 Reactor Pump	22.2	22.2	22.2	
Motor & Pump P - 1508 Reactor Pump	21.8	21.8	21.8	
Motor & Pump P - 1511 Stabilizer Reflux	19.2	19.2	19.2	
Motor & Pump P - 1512 Stabilizer Reflux	25.7	25.7	25.7	
Motor & Pump P - 1513 Caustic Circulatin	17.7	17.7	17.7	
Motor & Pump P - 1514 Caustic Circulatin	28.4	28.4	28.4	
Motor & Pump P 120/121	19.2	19.2	19.2	
Motor & Pump P 1505 FRESH FEED PUMPS	20.1	20.1	20.1	
Motor & Pump P 1506 FRESH FEED PUMPS	20.6	20.6	20.6	
Motor & Pump P 1509 Chloride Injection P	22.0	22.0	22.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 1510 Chloride Injection P	20.4	20.4	20.4	
Motor & Pump P 1601 A	18.2	18.2	18.2	
Motor & Pump P 1601 B	19.9	19.9	19.9	
Motor & Pump P 1602 A	20.8	20.8	20.8	
Motor & Pump P 1602 B	20.6	20.6	20.6	
Motor & Pump P 211/212	31.7	31.7	31.7	
Motor & Pump P 215/214	36.1	36.1	36.1	
Motor & Pump P 216	37.3	37.3	37.3	
Motor & Pump P 217/218	30.9	30.9	30.9	
Motor & Pump P 300	25.8	25.8	25.8	
Motor & Pump P 301	31.1	31.1	31.1	
Motor & Pump P 302	24.5	24.5	24.5	
Motor & Pump P 303	23.7	23.7	23.7	
Motor & Pump P 305	23.5	23.5	23.5	
Motor & Pump P 306	36.7	36.7	36.7	
Motor & Pump P 307	25.2	25.2	25.2	
Motor & Pump P 309	22.2	22.2	22.2	
Motor & Pump P 312	28.2	28.2	28.2	
Motor & Pump P 313	29.9	29.9	29.9	
Motor & Pump P 315	41.2	41.2	41.2	
Motor & Pump P 316	41.5	41.5	41.5	
Motor & Pump P 317	41.5	41.5	41.5	
Motor & Pump P 318	34.5	34.5	34.5	
Motor & Pump P 319	31.0	31.0	31.0	
Motor & Pump P 327	33.4	33.4	33.4	
Motor & Pump P 328	34.7	34.7	34.7	
Motor & Pump P 329	34.3	34.3	34.3	
Motor & Pump P 451	32.5	32.5	32.5	
Motor & Pump P 453	35.8	35.8	35.8	
Motor & Pump P 454	32.6	32.6	32.6	
Motor & Pump P 457	35.8	35.8	35.8	
Motor & Pump P 458	33.5	33.5	33.5	
Motor & Pump P 459	32.4	32.4	32.4	
Motor & Pump P 56A/B	27.3	27.3	27.3	
P602 100 HP	56.7	56.7	56.7	
P603 60 HP	59.2	59.2	59.2	
P605 40 HP	58.8	58.8	58.8	
P607 15 HP	51.7	51.7	51.7	
P608 15 HP	51.1	51.1	51.1	
P611 15 HP	52.4	52.4	52.4	
P614/615 20 HP	54.7	54.7	54.7	
Rail Cars Bumping 6 times in during delivery	50.3		62.0	
Scanner Blower C-084A/B	30.3	30.3	30.3	
Solar Turbine T70 2nd Boiler-2nd Boiler North	5.3	5.3	5.3	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	4.2	4.2	4.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	5.4	5.4	5.4	
Solar Turbine T70 2nd Boiler-2nd Boiler South	7.6	7.6	7.6	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	7.1	7.1	7.1	
Solar Turbine T70 Boiler-Boiler East 1	16.0	16.0	16.0	
Solar Turbine T70 Boiler-Boiler East 2	15.0	15.0	15.0	
Solar Turbine T70 Boiler-Boiler North 1	23.8	23.8	23.8	
Solar Turbine T70 Boiler-Boiler North 2	15.5	15.5	15.5	
Solar Turbine T70 Boiler-Boiler Roof	23.6	23.6	23.6	
Solar Turbine T70 Boiler-Boiler South	26.0	26.0	26.0	
Solar Turbine T70 Boiler-Boiler South 2	15.7	15.7	15.7	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	36.8	36.8	36.8	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	38.3	38.3	38.3	
Solar Turbine T70 Enclosure-T70 Encl. Roof	37.8	37.8	37.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	37.2	37.2	37.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	21.0	21.0	21.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	21.1	21.1	21.1	
Solar Turbine T70 SCR-SCR Unit Roof	16.1	16.1	16.1	
Solar Turbine T70 SCR-SCR Unit NE	6.4	6.4	6.4	
Solar Turbine T70 SCR-SCR Unit North	12.7	12.7	12.7	
Solar Turbine T70 SCR-SCR Unit NW	7.1	7.1	7.1	
Solar Turbine T70 SCR-SCR Unit SE	10.1	10.1	10.1	
Solar Turbine T70 SCR-SCR Unit South	15.3	15.3	15.3	
Solar Turbine T70 SCR-SCR Unit SW	8.9	8.9	8.9	
Tank Farm Pump 1	43.0	43.0	43.0	
Tank Farm Pump 2	24.2	24.2	24.2	
Tank Farm Pump 3	24.3	24.3	24.3	
UP Train Locomotive Delivery and Pickup	38.8		50.6	
Vaporizer Blower 1	23.1	23.1	23.1	
Vaporizer Blower 2	22.4	22.4	22.4	
Vaporizer Inlet Silencer	9.2	9.2	9.2	
Vaporizer Motor 1	17.8	17.8	17.8	
Vaporizer Motor 2	17.8	17.8	17.8	
Water Treatment Pumps P-056A&B	24.5	24.5	24.5	
XF-1502 Splitter Area 1	29.3	29.3	29.3	
XF-1502 Splitter Area 2	32.4	32.4	32.4	
XF-1504 Splitter Area 1	38.4	38.4	38.4	
XF-1504 Splitter Area 2	38.9	38.9	38.9	
XF - 1601	33.3	33.3	33.3	
XF - 1602	33.0	33.0	33.0	
XF 304, XF 321	41.1	41.1	41.1	
XF 313, XF 314	38.6	38.6	38.6	
XF 335-1, XF 335-2	41.4	41.4	41.4	
XF 503	47.6	47.6	47.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF Module 1510	41.9	41.9	41.9	
XF Module 1519	41.4	41.4	41.4	
Receiver S-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 70.9 dB(A)	Ld 7-19 dB(A)	Leq,N 70.0 dB(A)	Le 19-2
2.8-Open Intake	45.3	45.3	45.3	
2011 Track Mobile switch moving rail cars 33 cars per day	61.6			
Air Compressor C 1	47.2	47.2	47.2	
Air Compressor Pump, Motor Fan CMXF -055	39.8	39.8	39.8	
Asphalt Production	68.4	68.4	68.4	
BFW Pumps P-073A&B	36.7	36.7	36.7	
Blower F 401	53.5	53.5	53.5	
Boiler Crude Unit-Heater Opening	38.0	38.0	38.0	
Brine Transfer P-085	36.9	36.9	36.9	
Burner H301 North	24.1	24.1	24.1	
Burner H301 South	32.5	32.5	32.5	
Burner H302 North	26.3	26.3	26.3	
Burner H302 South	36.8	36.8	36.8	
Burner H303 North	30.8	30.8	30.8	
Burner H303 South	36.8	36.8	36.8	
Burner H304 North	30.1	30.1	30.1	
Burner H304 South	35.1	35.1	35.1	
Burner H305 North	27.9	27.9	27.9	
Burner H305 South	34.9	34.9	34.9	
Burner H306 North	29.6	29.6	29.6	
Burner H306 South	35.3	35.3	35.3	
Compressor House C301, C302, C 124-Comp House East 1	43.5	43.5	43.5	
Compressor House C301, C302, C 124-Comp House East 2	43.6	43.6	43.6	
Compressor House C301, C302, C 124-Comp House North	34.4	34.4	34.4	
Compressor House C301, C302, C 124-Comp House South 1	44.0	44.0	44.0	
Compressor House C301, C302, C 124-Comp House South 2	44.8	44.8	44.8	
Compressor House C301, C302, C 124-Comp House West	25.3	25.3	25.3	
Cooling Tower CT 510-CT 510 East Side	44.7	44.7	44.7	
Cooling Tower CT 510-CT 510 West Side	23.3	23.3	23.3	
Cooling Tower CT 511-CT 511 East Side	44.4	44.4	44.4	
Cooling Tower CT 511-CT 511 West Side	26.3	26.3	26.3	
Cooling Tower M 512	38.2	38.2	38.2	
Cooling Tower M 513	40.1	40.1	40.1	
Cooling Tower M 514	38.4	38.4	38.4	
Crude Plant Operation 80 dB/m^2 at 1 m	56.4	56.4	56.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Crude Operatoin Truck Truck Traffic	22.5	22.5	22.5	
Crude Operatoin Truck Truck Traffic LPG	33.7	33.7	33.7	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	56.4	56.4	56.4	
Crude Refinery / Renewable Fuels Truck T	45.8	45.2	45.2	
CT Y-600-CT Y-600 North	46.6	46.6	46.6	
CT Y-600-CT Y-600 South	44.6	44.6	44.6	
Deaerator Skid P-058A&B	48.5	48.5	48.5	
Exhaust Stack	53.1	53.1	53.1	
F.G. After Cooler XF-083ABC	44.8	44.8	44.8	
Fan Y-600	47.4	47.4	47.4	
FG Compressor Enclosure-FG Enclosure Roof	30.6	30.6	30.6	
FG Compressor Enclosure-FG Enclosure East	30.1	30.1	30.1	
FG Compressor Enclosure-FG Enclosure East Louver 1	19.4	19.4	19.4	
FG Compressor Enclosure-FG Enclosure North	26.7	26.7	26.7	
FG Compressor Enclosure-FG Enclosure South	28.3	28.3	28.3	
FG Compressor Enclosure-FG Enclosure West	29.4	29.4	29.4	
FG Compressor Enclosure-FG Enclosure West Louver 3	19.2	19.2	19.2	
Fin Fan XF 616 - Above	27.0	27.0	27.0	
Fin Fan XF 616 - Below	49.7	49.7	49.7	
Fin Fan XF 617 - Above	22.5	22.5	22.5	
Fin Fan XF 617 - Below	44.2	44.2	44.2	
Heater # 5-Heater	25.8	25.8	25.8	
Heater # 5-Heater	26.7	26.7	26.7	
Heater # 5-Heater	28.2	28.2	28.2	
Heater H 601	33.0	33.0	33.0	
Hydro Heater H-402	44.4	44.4	44.4	
ID Fan	35.8	35.8	35.8	
ID Fan 200 HP Motor	27.7	27.7	27.7	
Incinirator Compressor & Motor	27.1	27.1	27.1	
Incinirator Fin Fan	30.3	30.3	30.3	
Lub Oil Cooler XF-061	43.7	43.7	43.7	
Misc pumps motors	33.0	33.0	33.0	
Motor & Pump P - 1502 Splitter Reflux Pu	29.1	29.1	29.1	
Motor & Pump P - 1503 Splitter Bottoms P	31.3	31.3	31.3	
Motor & Pump P - 1504 Splitter Bottoms P	26.5	26.5	26.5	
Motor & Pump P - 1507 Reactor Pump	31.7	31.7	31.7	
Motor & Pump P - 1508 Reactor Pump	32.0	32.0	32.0	
Motor & Pump P - 1511 Stabilizer Reflux	32.4	32.4	32.4	
Motor & Pump P - 1512 Stabilizer Reflux	25.7	25.7	25.7	
Motor & Pump P - 1513 Caustic Circulatin	26.5	26.5	26.5	
Motor & Pump P - 1514 Caustic Circulatin	24.8	24.8	24.8	
Motor & Pump P 120/121	25.5	25.5	25.5	
Motor & Pump P 1505 FRESH FEED PUMPS	26.7	26.7	26.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	24.8	24.8	24.8	
Motor & Pump P 1509 Chloride Injection P	23.9	23.9	23.9	
Motor & Pump P 1510 Chloride Injection P	24.9	24.9	24.9	
Motor & Pump P 1601 A	28.4	28.4	28.4	
Motor & Pump P 1601 B	24.1	24.1	24.1	
Motor & Pump P 1602 A	22.0	22.0	22.0	
Motor & Pump P 1602 B	22.6	22.6	22.6	
Motor & Pump P 211/212	35.2	35.2	35.2	
Motor & Pump P 215/214	37.1	37.1	37.1	
Motor & Pump P 216	36.9	36.9	36.9	
Motor & Pump P 217/218	34.5	34.5	34.5	
Motor & Pump P 300	23.1	23.1	23.1	
Motor & Pump P 301	27.8	27.8	27.8	
Motor & Pump P 302	23.5	23.5	23.5	
Motor & Pump P 303	24.6	24.6	24.6	
Motor & Pump P 305	26.5	26.5	26.5	
Motor & Pump P 306	41.2	41.2	41.2	
Motor & Pump P 307	30.4	30.4	30.4	
Motor & Pump P 309	26.6	26.6	26.6	
Motor & Pump P 312	38.8	38.8	38.8	
Motor & Pump P 313	40.8	40.8	40.8	
Motor & Pump P 315	45.1	45.1	45.1	
Motor & Pump P 316	45.2	45.2	45.2	
Motor & Pump P 317	45.1	45.1	45.1	
Motor & Pump P 318	39.1	39.1	39.1	
Motor & Pump P 319	39.1	39.1	39.1	
Motor & Pump P 327	38.0	38.0	38.0	
Motor & Pump P 328	38.9	38.9	38.9	
Motor & Pump P 329	38.9	38.9	38.9	
Motor & Pump P 451	38.6	38.6	38.6	
Motor & Pump P 453	40.9	40.9	40.9	
Motor & Pump P 454	38.6	38.6	38.6	
Motor & Pump P 457	41.0	41.0	41.0	
Motor & Pump P 458	38.8	38.8	38.8	
Motor & Pump P 459	38.7	38.7	38.7	
Motor & Pump P 56A/B	27.7	27.7	27.7	
P602 100 HP	29.9	29.9	29.9	
P603 60 HP	36.4	36.4	36.4	
P605 40 HP	36.5	36.5	36.5	
P607 15 HP	27.2	27.2	27.2	
P608 15 HP	28.2	28.2	28.2	
P611 15 HP	26.5	26.5	26.5	
P614/615 20 HP	28.6	28.6	28.6	
Rail Cars Bumping 6 times in during delivery	59.0		70.7	
Scanner Blower C-084A/B	40.1	40.1	40.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Solar Turbine T70 2nd Boiler-2nd Boiler North	12.5	12.5	12.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	12.2	12.2	12.2	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	16.5	16.5	16.5	
Solar Turbine T70 2nd Boiler-2nd Boiler South	17.7	17.7	17.7	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	17.9	17.9	17.9	
Solar Turbine T70 Boiler-Boiler East 1	27.9	27.9	27.9	
Solar Turbine T70 Boiler-Boiler East 2	23.0	23.0	23.0	
Solar Turbine T70 Boiler-Boiler North 1	32.3	32.3	32.3	
Solar Turbine T70 Boiler-Boiler North 2	23.7	23.7	23.7	
Solar Turbine T70 Boiler-Boiler Roof	35.0	35.0	35.0	
Solar Turbine T70 Boiler-Boiler South	36.6	36.6	36.6	
Solar Turbine T70 Boiler-Boiler South 2	27.5	27.5	27.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	43.9	43.9	43.9	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	45.9	45.9	45.9	
Solar Turbine T70 Enclosure-T70 Encl. Roof	48.4	48.4	48.4	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	47.7	47.7	47.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	31.7	31.7	31.7	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	31.3	31.3	31.3	
Solar Turbine T70 SCR-SCR Unit Roof	26.9	26.9	26.9	
Solar Turbine T70 SCR-SCR Unit NE	13.6	13.6	13.6	
Solar Turbine T70 SCR-SCR Unit North	19.7	19.7	19.7	
Solar Turbine T70 SCR-SCR Unit NW	14.2	14.2	14.2	
Solar Turbine T70 SCR-SCR Unit SE	20.1	20.1	20.1	
Solar Turbine T70 SCR-SCR Unit South	25.3	25.3	25.3	
Solar Turbine T70 SCR-SCR Unit SW	19.7	19.7	19.7	
Tank Farm Pump 1	38.5	38.5	38.5	
Tank Farm Pump 2	39.6	39.6	39.6	
Tank Farm Pump 3	36.8	36.8	36.8	
UP Train Locomotive Delivery and Pickup	49.1		60.8	
Vaporizer Blower 1	32.0	32.0	32.0	
Vaporizer Blower 2	31.8	31.8	31.8	
Vaporizer Inlet Silencer	17.2	17.2	17.2	
Vaporizer Motor 1	27.6	27.6	27.6	
Vaporizer Motor 2	26.6	26.6	26.6	
Water Treatment Pumps P-056A&B	33.7	33.7	33.7	
XF-1502 Splitter Area 1	40.9	40.9	40.9	
XF-1502 Splitter Area 2	44.0	44.0	44.0	
XF-1504 Splitter Area 1	42.3	42.3	42.3	
XF-1504 Splitter Area 2	42.5	42.5	42.5	
XF - 1601	39.3	39.3	39.3	
XF - 1602	39.9	39.9	39.9	
XF 304, XF 321	46.6	46.6	46.6	
XF 313, XF 314	45.7	45.7	45.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF 335-1, XF 335-2	47.8	47.8	47.8	
XF 503	50.7	50.7	50.7	
XF Module 1510	46.6	46.6	46.6	
XF Module 1519	46.6	46.6	46.6	
Receiver S-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 71.1 dB(A)	Ld 7-19 dB(A)	Leq,N 69.0 dB(A)	Le 19-2
2.8-Open Intake	47.4	47.4	47.4	
2011 Track Mobile switch moving rail cars 33 cars per day	65.7			
Air Compressor C 1	55.1	55.1	55.1	
Air Compressor Pump, Motor Fan CMXF -055	42.1	42.1	42.1	
Asphalt Production	60.2	60.2	60.2	
BFW Pumps P-073A&B	50.4	50.4	50.4	
Blower F 401	55.4	55.4	55.4	
Boiler Crude Unit-Heater Opening	30.1	30.1	30.1	
Brine Transfer P-085	56.1	56.1	56.1	
Burner H301 North	25.5	25.5	25.5	
Burner H301 South	37.9	37.9	37.9	
Burner H302 North	25.1	25.1	25.1	
Burner H302 South	36.3	36.3	36.3	
Burner H303 North	30.1	30.1	30.1	
Burner H303 South	34.4	34.4	34.4	
Burner H304 North	28.7	28.7	28.7	
Burner H304 South	31.3	31.3	31.3	
Burner H305 North	31.9	31.9	31.9	
Burner H305 South	30.5	30.5	30.5	
Burner H306 North	24.6	24.6	24.6	
Burner H306 South	33.8	33.8	33.8	
Compressor House C301, C302, C 124-Comp House East 1	44.8	44.8	44.8	
Compressor House C301, C302, C 124-Comp House East 2	44.7	44.7	44.7	
Compressor House C301, C302, C 124-Comp House North	41.0	41.0	41.0	
Compressor House C301, C302, C 124-Comp House South 1	47.1	47.1	47.1	
Compressor House C301, C302, C 124-Comp House South 2	43.7	43.7	43.7	
Compressor House C301, C302, C 124-Comp House West	28.7	28.7	28.7	
Cooling Tower CT 510-CT 510 East Side	53.5	53.5	53.5	
Cooling Tower CT 510-CT 510 West Side	29.0	29.0	29.0	
Cooling Tower CT 511-CT 511 East Side	51.0	51.0	51.0	
Cooling Tower CT 511-CT 511 West Side	46.7	46.7	46.7	
Cooling Tower M 512	37.1	37.1	37.1	
Cooling Tower M 513	35.0	35.0	35.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower M 514	41.7	41.7	41.7	
Crude Plant Operation 80 dB/m^2 at 1 m	53.9	53.9	53.9	
Crude Operatoin Truck Truck Traffic	25.2	25.2	25.2	
Crude Operatoin Truck Truck Traffic LPG	41.0	41.0	41.0	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	53.9	53.9	53.9	
Crude Refinery / Renewable Fuels Truck T	41.6	41.1	41.1	
CT Y-600-CT Y-600 North	34.1	34.1	34.1	
CT Y-600-CT Y-600 South	33.3	33.3	33.3	
Deaerator Skid P-058A&B	50.3	50.3	50.3	
Exhaust Stack	59.2	59.2	59.2	
F.G. After Cooler XF-083ABC	48.6	48.6	48.6	
Fan Y-600	40.5	40.5	40.5	
FG Compressor Enclosure-FG Enclosure Roof	31.0	31.0	31.0	
FG Compressor Enclosure-FG Enclosure East	25.2	25.2	25.2	
FG Compressor Enclosure-FG Enclosure East Louver 1	11.4	11.4	11.4	
FG Compressor Enclosure-FG Enclosure North	26.8	26.8	26.8	
FG Compressor Enclosure-FG Enclosure South	28.3	28.3	28.3	
FG Compressor Enclosure-FG Enclosure West	30.1	30.1	30.1	
FG Compressor Enclosure-FG Enclosure West Louver 3	22.2	22.2	22.2	
Fin Fan XF 616 - Above	23.0	23.0	23.0	
Fin Fan XF 616 - Below	43.7	43.7	43.7	
Fin Fan XF 617 - Above	19.9	19.9	19.9	
Fin Fan XF 617 - Below	37.8	37.8	37.8	
Heater # 5-Heater	29.2	29.2	29.2	
Heater # 5-Heater	29.8	29.8	29.8	
Heater # 5-Heater	29.9	29.9	29.9	
Heater H 601	28.1	28.1	28.1	
Hydro Heater H-402	50.1	50.1	50.1	
ID Fan	41.9	41.9	41.9	
ID Fan 200 HP Motor	31.1	31.1	31.1	
Incinirator Compressor & Motor	26.0	26.0	26.0	
Incinirator Fin Fan	28.3	28.3	28.3	
Lub Oil Cooler XF-061	47.8	47.8	47.8	
Misc pumps motors	34.7	34.7	34.7	
Motor & Pump P - 1502 Splitter Reflux Pu	31.1	31.1	31.1	
Motor & Pump P - 1503 Splitter Bottoms P	32.6	32.6	32.6	
Motor & Pump P - 1504 Splitter Bottoms P	33.5	33.5	33.5	
Motor & Pump P - 1507 Reactor Pump	35.3	35.3	35.3	
Motor & Pump P - 1508 Reactor Pump	34.5	34.5	34.5	
Motor & Pump P - 1511 Stabilizer Reflux	46.1	46.1	46.1	
Motor & Pump P - 1512 Stabilizer Reflux	41.1	41.1	41.1	
Motor & Pump P - 1513 Caustic Circulatin	34.7	34.7	34.7	
Motor & Pump P - 1514 Caustic Circulatin	36.3	36.3	36.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P 120/121	29.6	29.6	29.6	
Motor & Pump P 1505 FRESH FEED PUMPS	30.0	30.0	30.0	
Motor & Pump P 1506 FRESH FEED PUMPS	34.7	34.7	34.7	
Motor & Pump P 1509 Chloride Injection P	36.8	36.8	36.8	
Motor & Pump P 1510 Chloride Injection P	37.0	37.0	37.0	
Motor & Pump P 1601 A	29.6	29.6	29.6	
Motor & Pump P 1601 B	28.4	28.4	28.4	
Motor & Pump P 1602 A	27.9	27.9	27.9	
Motor & Pump P 1602 B	28.2	28.2	28.2	
Motor & Pump P 211/212	39.2	39.2	39.2	
Motor & Pump P 215/214	37.4	37.4	37.4	
Motor & Pump P 216	40.4	40.4	40.4	
Motor & Pump P 217/218	39.2	39.2	39.2	
Motor & Pump P 300	36.7	36.7	36.7	
Motor & Pump P 301	42.4	42.4	42.4	
Motor & Pump P 302	36.2	36.2	36.2	
Motor & Pump P 303	35.8	35.8	35.8	
Motor & Pump P 305	35.5	35.5	35.5	
Motor & Pump P 306	47.2	47.2	47.2	
Motor & Pump P 307	39.7	39.7	39.7	
Motor & Pump P 309	35.5	35.5	35.5	
Motor & Pump P 312	46.2	46.2	46.2	
Motor & Pump P 313	47.7	47.7	47.7	
Motor & Pump P 315	49.1	49.1	49.1	
Motor & Pump P 316	49.3	49.3	49.3	
Motor & Pump P 317	49.0	49.0	49.0	
Motor & Pump P 318	49.6	49.6	49.6	
Motor & Pump P 319	49.5	49.5	49.5	
Motor & Pump P 327	39.1	39.1	39.1	
Motor & Pump P 328	46.6	46.6	46.6	
Motor & Pump P 329	46.5	46.5	46.5	
Motor & Pump P 451	42.4	42.4	42.4	
Motor & Pump P 453	46.6	46.6	46.6	
Motor & Pump P 454	41.3	41.3	41.3	
Motor & Pump P 457	46.8	46.8	46.8	
Motor & Pump P 458	45.4	45.4	45.4	
Motor & Pump P 459	42.5	42.5	42.5	
Motor & Pump P 56A/B	43.7	43.7	43.7	
P602 100 HP	25.7	25.7	25.7	
P603 60 HP	22.1	22.1	22.1	
P605 40 HP	22.4	22.4	22.4	
P607 15 HP	22.3	22.3	22.3	
P608 15 HP	23.1	23.1	23.1	
P611 15 HP	21.7	21.7	21.7	
P614/615 20 HP	27.9	27.9	27.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Rail Cars Bumping 6 times in during delivery	58.9		70.7	
Scanner Blower C-084A/B	51.7	51.7	51.7	
Solar Turbine T70 2nd Boiler-2nd Boiler North	21.2	21.2	21.2	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	18.3	18.3	18.3	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	24.0	24.0	24.0	
Solar Turbine T70 2nd Boiler-2nd Boiler South	29.2	29.2	29.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	28.5	28.5	28.5	
Solar Turbine T70 Boiler-Boiler East 1	29.5	29.5	29.5	
Solar Turbine T70 Boiler-Boiler East 2	20.3	20.3	20.3	
Solar Turbine T70 Boiler-Boiler North 1	36.1	36.1	36.1	
Solar Turbine T70 Boiler-Boiler North 2	25.4	25.4	25.4	
Solar Turbine T70 Boiler-Boiler Roof	36.4	36.4	36.4	
Solar Turbine T70 Boiler-Boiler South	44.8	44.8	44.8	
Solar Turbine T70 Boiler-Boiler South 2	32.5	32.5	32.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	36.1	36.1	36.1	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	50.2	50.2	50.2	
Solar Turbine T70 Enclosure-T70 Encl. Roof	49.8	49.8	49.8	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	55.3	55.3	55.3	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	40.2	40.2	40.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	48.3	48.3	48.3	
Solar Turbine T70 SCR-SCR Unit Roof	31.8	31.8	31.8	
Solar Turbine T70 SCR-SCR Unit NE	21.6	21.6	21.6	
Solar Turbine T70 SCR-SCR Unit North	29.9	29.9	29.9	
Solar Turbine T70 SCR-SCR Unit NW	24.8	24.8	24.8	
Solar Turbine T70 SCR-SCR Unit SE	22.8	22.8	22.8	
Solar Turbine T70 SCR-SCR Unit South	36.2	36.2	36.2	
Solar Turbine T70 SCR-SCR Unit SW	31.9	31.9	31.9	
Tank Farm Pump 1	37.5	37.5	37.5	
Tank Farm Pump 2	37.4	37.4	37.4	
Tank Farm Pump 3	37.7	37.7	37.7	
UP Train Locomotive Delivery and Pickup	55.0		66.7	
Vaporizer Blower 1	34.9	34.9	34.9	
Vaporizer Blower 2	35.1	35.1	35.1	
Vaporizer Inlet Silencer	19.9	19.9	19.9	
Vaporizer Motor 1	29.8	29.8	29.8	
Vaporizer Motor 2	30.0	30.0	30.0	
Water Treatment Pumps P-056A&B	51.6	51.6	51.6	
XF-1502 Splitter Area 1	45.8	45.8	45.8	
XF-1502 Splitter Area 2	49.6	49.6	49.6	
XF-1504 Splitter Area 1	49.5	49.5	49.5	
XF-1504 Splitter Area 2	49.8	49.8	49.8	
XF - 1601	44.9	44.9	44.9	
XF - 1602	44.9	44.9	44.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF 304, XF 321	52.2	52.2	52.2	
XF 313, XF 314	46.6	46.6	46.6	
XF 335-1, XF 335-2	52.3	52.3	52.3	
XF 503	56.3	56.3	56.3	
XF Module 1510	47.8	47.8	47.8	
XF Module 1519	50.1	50.1	50.1	
Receiver S-9 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 75.9 dB(A)	Ld 7-19 dB(A)	Leq,N 75.7 dB(A)	Le 19-2
2.8-Open Intake	41.2	41.2	41.2	
2011 Track Mobile switch moving rail cars 33 cars per day	58.1			
Air Compressor C 1	47.5	47.5	47.5	
Air Compressor Pump, Motor Fan CMXF -055	48.7	48.7	48.7	
Asphalt Production	54.1	54.1	54.1	
BFW Pumps P-073A&B	44.0	44.0	44.0	
Blower F 401	73.0	73.0	73.0	
Boiler Crude Unit-Heater Opening	34.0	34.0	34.0	
Brine Transfer P-085	37.2	37.2	37.2	
Burner H301 North	28.0	28.0	28.0	
Burner H301 South	34.4	34.4	34.4	
Burner H302 North	30.2	30.2	30.2	
Burner H302 South	34.6	34.6	34.6	
Burner H303 North	36.2	36.2	36.2	
Burner H303 South	42.7	42.7	42.7	
Burner H304 North	33.2	33.2	33.2	
Burner H304 South	36.6	36.6	36.6	
Burner H305 North	34.1	34.1	34.1	
Burner H305 South	33.4	33.4	33.4	
Burner H306 North	30.3	30.3	30.3	
Burner H306 South	33.3	33.3	33.3	
Compressor House C301, C302, C 124-Comp House East 1	57.8	57.8	57.8	
Compressor House C301, C302, C 124-Comp House East 2	56.9	56.9	56.9	
Compressor House C301, C302, C 124-Comp House North	40.4	40.4	40.4	
Compressor House C301, C302, C 124-Comp House South 1	58.6	58.6	58.6	
Compressor House C301, C302, C 124-Comp House South 2	51.7	51.7	51.7	
Compressor House C301, C302, C 124-Comp House West	41.9	41.9	41.9	
Cooling Tower CT 510-CT 510 East Side	45.9	45.9	45.9	
Cooling Tower CT 510-CT 510 West Side	48.0	48.0	48.0	
Cooling Tower CT 511-CT 511 East Side	27.2	27.2	27.2	
Cooling Tower CT 511-CT 511 West Side	53.5	53.5	53.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower M 512	47.6	47.6	47.6	
Cooling Tower M 513	47.7	47.7	47.7	
Cooling Tower M 514	49.8	49.8	49.8	
Crude Plant Operation 80 dB/m^2 at 1 m	50.8	50.8	50.8	
Crude Operatoin Truck Truck Traffic	17.1	17.1	17.1	
Crude Operatoin Truck Truck Traffic LPG	32.6	32.6	32.6	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	51.0	51.0	51.0	
Crude Refinery / Renewable Fuels Truck T	37.7	37.1	37.1	
CT Y-600-CT Y-600 North	31.6	31.6	31.6	
CT Y-600-CT Y-600 South	29.6	29.6	29.6	
Deaerator Skid P-058A&B	41.4	41.4	41.4	
Exhaust Stack	48.3	48.3	48.3	
F.G. After Cooler XF-083ABC	46.2	46.2	46.2	
Fan Y-600	37.9	37.9	37.9	
FG Compressor Enclosure-FG Enclosure Roof	24.1	24.1	24.1	
FG Compressor Enclosure-FG Enclosure East	17.8	17.8	17.8	
FG Compressor Enclosure-FG Enclosure East Louver 1	3.0	3.0	3.0	
FG Compressor Enclosure-FG Enclosure North	27.3	27.3	27.3	
FG Compressor Enclosure-FG Enclosure South	16.9	16.9	16.9	
FG Compressor Enclosure-FG Enclosure West	27.3	27.3	27.3	
FG Compressor Enclosure-FG Enclosure West Louver 3	16.9	16.9	16.9	
Fin Fan XF 616 - Above	24.3	24.3	24.3	
Fin Fan XF 616 - Below	40.4	40.4	40.4	
Fin Fan XF 617 - Above	22.0	22.0	22.0	
Fin Fan XF 617 - Below	37.6	37.6	37.6	
Heater # 5-Heater	18.6	18.6	18.6	
Heater # 5-Heater	18.8	18.8	18.8	
Heater # 5-Heater	19.2	19.2	19.2	
Heater H 601	26.6	26.6	26.6	
Hydro Heater H-402	54.7	54.7	54.7	
ID Fan	46.8	46.8	46.8	
ID Fan 200 HP Motor	36.5	36.5	36.5	
Incinirator Compressor & Motor	26.6	26.6	26.6	
Incinirator Fin Fan	28.9	28.9	28.9	
Lub Oil Cooler XF-061	45.5	45.5	45.5	
Misc pumps motors	30.9	30.9	30.9	
Motor & Pump P - 1502 Splitter Reflux Pu	42.3	42.3	42.3	
Motor & Pump P - 1503 Splitter Bottoms P	42.0	42.0	42.0	
Motor & Pump P - 1504 Splitter Bottoms P	42.0	42.0	42.0	
Motor & Pump P - 1507 Reactor Pump	49.1	49.1	49.1	
Motor & Pump P - 1508 Reactor Pump	48.9	48.9	48.9	
Motor & Pump P - 1511 Stabilizer Reflux	40.8	40.8	40.8	
Motor & Pump P - 1512 Stabilizer Reflux	42.5	42.5	42.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	46.7	46.7	46.7	
Motor & Pump P - 1514 Caustic Circulatin	42.9	42.9	42.9	
Motor & Pump P 120/121	28.8	28.8	28.8	
Motor & Pump P 1505 FRESH FEED PUMPS	50.9	50.9	50.9	
Motor & Pump P 1506 FRESH FEED PUMPS	49.1	49.1	49.1	
Motor & Pump P 1509 Chloride Injection P	35.9	35.9	35.9	
Motor & Pump P 1510 Chloride Injection P	35.2	35.2	35.2	
Motor & Pump P 1601 A	33.2	33.2	33.2	
Motor & Pump P 1601 B	34.6	34.6	34.6	
Motor & Pump P 1602 A	33.5	33.5	33.5	
Motor & Pump P 1602 B	33.3	33.3	33.3	
Motor & Pump P 211/212	49.5	49.5	49.5	
Motor & Pump P 215/214	54.6	54.6	54.6	
Motor & Pump P 216	59.4	59.4	59.4	
Motor & Pump P 217/218	50.5	50.5	50.5	
Motor & Pump P 300	46.8	46.8	46.8	
Motor & Pump P 301	52.0	52.0	52.0	
Motor & Pump P 302	46.7	46.7	46.7	
Motor & Pump P 303	46.7	46.7	46.7	
Motor & Pump P 305	46.9	46.9	46.9	
Motor & Pump P 306	60.2	60.2	60.2	
Motor & Pump P 307	52.3	52.3	52.3	
Motor & Pump P 309	46.8	46.8	46.8	
Motor & Pump P 312	53.3	53.3	53.3	
Motor & Pump P 313	53.5	53.5	53.5	
Motor & Pump P 315	56.1	56.1	56.1	
Motor & Pump P 316	56.4	56.4	56.4	
Motor & Pump P 317	57.0	57.0	57.0	
Motor & Pump P 318	52.3	52.3	52.3	
Motor & Pump P 319	52.2	52.2	52.2	
Motor & Pump P 327	47.1	47.1	47.1	
Motor & Pump P 328	58.5	58.5	58.5	
Motor & Pump P 329	58.9	58.9	58.9	
Motor & Pump P 451	43.4	43.4	43.4	
Motor & Pump P 453	52.5	52.5	52.5	
Motor & Pump P 454	43.9	43.9	43.9	
Motor & Pump P 457	49.3	49.3	49.3	
Motor & Pump P 458	43.1	43.1	43.1	
Motor & Pump P 459	44.5	44.5	44.5	
Motor & Pump P 56A/B	48.4	48.4	48.4	
P602 100 HP	23.5	23.5	23.5	
P603 60 HP	19.4	19.4	19.4	
P605 40 HP	21.5	21.5	21.5	
P607 15 HP	21.2	21.2	21.2	
P608 15 HP	22.3	22.3	22.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
P611 15 HP	20.3	20.3	20.3	
P614/615 20 HP	26.9	26.9	26.9	
Rail Cars Bumping 6 times in during delivery	58.8		70.6	
Scanner Blower C-084A/B	33.5	33.5	33.5	
Solar Turbine T70 2nd Boiler-2nd Boiler North	19.7	19.7	19.7	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	18.0	18.0	18.0	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	13.2	13.2	13.2	
Solar Turbine T70 2nd Boiler-2nd Boiler South	16.6	16.6	16.6	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	19.0	19.0	19.0	
Solar Turbine T70 Boiler-Boiler East 1	17.0	17.0	17.0	
Solar Turbine T70 Boiler-Boiler East 2	17.5	17.5	17.5	
Solar Turbine T70 Boiler-Boiler North 1	31.2	31.2	31.2	
Solar Turbine T70 Boiler-Boiler North 2	20.5	20.5	20.5	
Solar Turbine T70 Boiler-Boiler Roof	28.3	28.3	28.3	
Solar Turbine T70 Boiler-Boiler South	29.3	29.3	29.3	
Solar Turbine T70 Boiler-Boiler South 2	18.1	18.1	18.1	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	32.7	32.7	32.7	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	48.0	48.0	48.0	
Solar Turbine T70 Enclosure-T70 Encl. Roof	39.6	39.6	39.6	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	42.0	42.0	42.0	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	32.9	32.9	32.9	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	27.8	27.8	27.8	
Solar Turbine T70 SCR-SCR Unit Roof	21.2	21.2	21.2	
Solar Turbine T70 SCR-SCR Unit NE	12.7	12.7	12.7	
Solar Turbine T70 SCR-SCR Unit North	26.2	26.2	26.2	
Solar Turbine T70 SCR-SCR Unit NW	20.9	20.9	20.9	
Solar Turbine T70 SCR-SCR Unit SE	12.9	12.9	12.9	
Solar Turbine T70 SCR-SCR Unit South	22.6	22.6	22.6	
Solar Turbine T70 SCR-SCR Unit SW	20.7	20.7	20.7	
Tank Farm Pump 1	31.9	31.9	31.9	
Tank Farm Pump 2	30.7	30.7	30.7	
Tank Farm Pump 3	30.3	30.3	30.3	
UP Train Locomotive Delivery and Pickup	55.1		66.9	
Vaporizer Blower 1	32.3	32.3	32.3	
Vaporizer Blower 2	32.4	32.4	32.4	
Vaporizer Inlet Silencer	19.1	19.1	19.1	
Vaporizer Motor 1	26.4	26.4	26.4	
Vaporizer Motor 2	26.6	26.6	26.6	
Water Treatment Pumps P-056A&B	40.7	40.7	40.7	
XF-1502 Splitter Area 1	46.8	46.8	46.8	
XF-1502 Splitter Area 2	44.2	44.2	44.2	
XF-1504 Splitter Area 1	48.2	48.2	48.2	
XF-1504 Splitter Area 2	48.5	48.5	48.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF - 1601	42.9	42.9	42.9	
XF - 1602	44.9	44.9	44.9	
XF 304, XF 321	57.6	57.6	57.6	
XF 313, XF 314	54.5	54.5	54.5	
XF 335-1, XF 335-2	54.7	54.7	54.7	
XF 503	65.5	65.5	65.5	
XF Module 1510	51.0	51.0	51.0	
XF Module 1519	56.5	56.5	56.5	
Receiver S-10 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 69.5 dB(A)	Ld 7-19 dB(A)	Leq,N 68.6 dB(A)	Le 19-2
2.8-Open Intake	33.6	33.6	33.6	
2011 Track Mobile switch moving rail cars 33 cars per day	57.1			
Air Compressor C 1	48.8	48.8	48.8	
Air Compressor Pump, Motor Fan CMXF -055	39.8	39.8	39.8	
Asphalt Production	48.8	48.8	48.8	
BFW Pumps P-073A&B	38.7	38.7	38.7	
Blower F 401	60.0	60.0	60.0	
Boiler Crude Unit-Heater Opening	29.4	29.4	29.4	
Brine Transfer P-085	32.7	32.7	32.7	
Burner H301 North	34.8	34.8	34.8	
Burner H301 South	31.6	31.6	31.6	
Burner H302 North	31.0	31.0	31.0	
Burner H302 South	34.0	34.0	34.0	
Burner H303 North	41.3	41.3	41.3	
Burner H303 South	48.5	48.5	48.5	
Burner H304 North	37.8	37.8	37.8	
Burner H304 South	45.1	45.1	45.1	
Burner H305 North	35.3	35.3	35.3	
Burner H305 South	39.2	39.2	39.2	
Burner H306 North	31.5	31.5	31.5	
Burner H306 South	35.1	35.1	35.1	
Compressor House C301, C302, C 124-Comp House East 1	35.2	35.2	35.2	
Compressor House C301, C302, C 124-Comp House East 2	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House North	57.7	57.7	57.7	
Compressor House C301, C302, C 124-Comp House South 1	47.4	47.4	47.4	
Compressor House C301, C302, C 124-Comp House South 2	40.5	40.5	40.5	
Compressor House C301, C302, C 124-Comp House West	52.9	52.9	52.9	
Cooling Tower CT 510-CT 510 East Side	30.0	30.0	30.0	
Cooling Tower CT 510-CT 510 West Side	38.3	38.3	38.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Cooling Tower CT 511-CT 511 East Side	21.2	21.2	21.2	
Cooling Tower CT 511-CT 511 West Side	38.0	38.0	38.0	
Cooling Tower M 512	30.9	30.9	30.9	
Cooling Tower M 513	30.9	30.9	30.9	
Cooling Tower M 514	31.6	31.6	31.6	
Crude Plant Operation 80 dB/m^2 at 1 m	45.2	45.2	45.2	
Crude Operatoin Truck Truck Traffic	18.7	18.7	18.7	
Crude Operatoin Truck Truck Traffic LPG	34.1	34.1	34.1	
Crude Plant Operation SPL 80 dB/m^2 at 3 m	45.8	45.8	45.8	
Crude Refinery / Renewable Fuels Truck T	34.5	33.9	33.9	
CT Y-600-CT Y-600 North	28.5	28.5	28.5	
CT Y-600-CT Y-600 South	27.4	27.4	27.4	
Deaerator Skid P-058A&B	39.3	39.3	39.3	
Exhaust Stack	45.5	45.5	45.5	
F.G. After Cooler XF-083ABC	40.9	40.9	40.9	
Fan Y-600	36.4	36.4	36.4	
FG Compressor Enclosure-FG Enclosure Roof	21.9	21.9	21.9	
FG Compressor Enclosure-FG Enclosure East	15.5	15.5	15.5	
FG Compressor Enclosure-FG Enclosure East Louver 1	-0.7	-0.7	-0.7	
FG Compressor Enclosure-FG Enclosure North	25.2	25.2	25.2	
FG Compressor Enclosure-FG Enclosure South	11.1	11.1	11.1	
FG Compressor Enclosure-FG Enclosure West	22.6	22.6	22.6	
FG Compressor Enclosure-FG Enclosure West Louver 3	9.1	9.1	9.1	
Fin Fan XF 616 - Above	22.5	22.5	22.5	
Fin Fan XF 616 - Below	37.2	37.2	37.2	
Fin Fan XF 617 - Above	19.5	19.5	19.5	
Fin Fan XF 617 - Below	33.2	33.2	33.2	
Heater # 5-Heater	16.8	16.8	16.8	
Heater # 5-Heater	16.7	16.7	16.7	
Heater # 5-Heater	17.1	17.1	17.1	
Heater H 601	22.6	22.6	22.6	
Hydro Heater H-402	38.5	38.5	38.5	
ID Fan	48.6	48.6	48.6	
ID Fan 200 HP Motor	40.8	40.8	40.8	
Incinirator Compressor & Motor	24.2	24.2	24.2	
Incinirator Fin Fan	27.0	27.0	27.0	
Lub Oil Cooler XF-061	44.6	44.6	44.6	
Misc pumps motors	34.8	34.8	34.8	
Motor & Pump P - 1502 Splitter Reflux Pu	40.8	40.8	40.8	
Motor & Pump P - 1503 Splitter Bottoms P	43.7	43.7	43.7	
Motor & Pump P - 1504 Splitter Bottoms P	45.8	45.8	45.8	
Motor & Pump P - 1507 Reactor Pump	43.9	43.9	43.9	
Motor & Pump P - 1508 Reactor Pump	46.1	46.1	46.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	44.8	44.8	44.8	
Motor & Pump P - 1512 Stabilizer Reflux	45.0	45.0	45.0	
Motor & Pump P - 1513 Caustic Circulatin	45.2	45.2	45.2	
Motor & Pump P - 1514 Caustic Circulatin	45.2	45.2	45.2	
Motor & Pump P 120/121	34.1	34.1	34.1	
Motor & Pump P 1505 FRESH FEED PUMPS	36.4	36.4	36.4	
Motor & Pump P 1506 FRESH FEED PUMPS	40.8	40.8	40.8	
Motor & Pump P 1509 Chloride Injection P	27.5	27.5	27.5	
Motor & Pump P 1510 Chloride Injection P	27.7	27.7	27.7	
Motor & Pump P 1601 A	36.0	36.0	36.0	
Motor & Pump P 1601 B	36.4	36.4	36.4	
Motor & Pump P 1602 A	37.3	37.3	37.3	
Motor & Pump P 1602 B	37.9	37.9	37.9	
Motor & Pump P 211/212	44.7	44.7	44.7	
Motor & Pump P 215/214	41.0	41.0	41.0	
Motor & Pump P 216	50.6	50.6	50.6	
Motor & Pump P 217/218	44.4	44.4	44.4	
Motor & Pump P 300	36.6	36.6	36.6	
Motor & Pump P 301	41.8	41.8	41.8	
Motor & Pump P 302	36.3	36.3	36.3	
Motor & Pump P 303	34.6	34.6	34.6	
Motor & Pump P 305	33.1	33.1	33.1	
Motor & Pump P 306	51.4	51.4	51.4	
Motor & Pump P 307	43.1	43.1	43.1	
Motor & Pump P 309	33.0	33.0	33.0	
Motor & Pump P 312	49.3	49.3	49.3	
Motor & Pump P 313	54.8	54.8	54.8	
Motor & Pump P 315	56.5	56.5	56.5	
Motor & Pump P 316	56.7	56.7	56.7	
Motor & Pump P 317	56.9	56.9	56.9	
Motor & Pump P 318	54.3	54.3	54.3	
Motor & Pump P 319	55.7	55.7	55.7	
Motor & Pump P 327	46.5	46.5	46.5	
Motor & Pump P 328	47.0	47.0	47.0	
Motor & Pump P 329	49.0	49.0	49.0	
Motor & Pump P 451	35.3	35.3	35.3	
Motor & Pump P 453	31.2	31.2	31.2	
Motor & Pump P 454	35.2	35.2	35.2	
Motor & Pump P 457	36.8	36.8	36.8	
Motor & Pump P 458	35.2	35.2	35.2	
Motor & Pump P 459	35.0	35.0	35.0	
Motor & Pump P 56A/B	45.0	45.0	45.0	
P602 100 HP	22.0	22.0	22.0	
P603 60 HP	17.4	17.4	17.4	
P605 40 HP	19.9	19.9	19.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
P607 15 HP	15.9	15.9	15.9	
P608 15 HP	18.0	18.0	18.0	
P611 15 HP	15.4	15.4	15.4	
P614/615 20 HP	20.4	20.4	20.4	
Rail Cars Bumping 6 times in during delivery	59.2		70.9	
Scanner Blower C-084A/B	29.1	29.1	29.1	
Solar Turbine T70 2nd Boiler-2nd Boiler North	17.5	17.5	17.5	
Solar Turbine T70 2nd Boiler-2nd Boiler NW	15.9	15.9	15.9	
Solar Turbine T70 2nd Boiler-2nd Boiler Roof	11.6	11.6	11.6	
Solar Turbine T70 2nd Boiler-2nd Boiler South	9.2	9.2	9.2	
Solar Turbine T70 2nd Boiler-2nd Boiler SW	12.0	12.0	12.0	
Solar Turbine T70 Boiler-Boiler East 1	13.0	13.0	13.0	
Solar Turbine T70 Boiler-Boiler East 2	17.8	17.8	17.8	
Solar Turbine T70 Boiler-Boiler North 1	31.6	31.6	31.6	
Solar Turbine T70 Boiler-Boiler North 2	21.7	21.7	21.7	
Solar Turbine T70 Boiler-Boiler Roof	25.6	25.6	25.6	
Solar Turbine T70 Boiler-Boiler South	24.1	24.1	24.1	
Solar Turbine T70 Boiler-Boiler South 2	14.5	14.5	14.5	
Solar Turbine T70 Enclosure-T70 Encl. East Wall	28.2	28.2	28.2	
Solar Turbine T70 Enclosure-T70 Encl. North Wall	46.4	46.4	46.4	
Solar Turbine T70 Enclosure-T70 Encl. Roof	39.5	39.5	39.5	
Solar Turbine T70 Enclosure-T70 Encl. South Wall	37.2	37.2	37.2	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 1	35.1	35.1	35.1	
Solar Turbine T70 Enclosure-T70 Encl. West Wall 2	22.7	22.7	22.7	
Solar Turbine T70 SCR-SCR Unit Roof	18.7	18.7	18.7	
Solar Turbine T70 SCR-SCR Unit NE	12.5	12.5	12.5	
Solar Turbine T70 SCR-SCR Unit North	21.0	21.0	21.0	
Solar Turbine T70 SCR-SCR Unit NW	17.7	17.7	17.7	
Solar Turbine T70 SCR-SCR Unit SE	7.7	7.7	7.7	
Solar Turbine T70 SCR-SCR Unit South	15.6	15.6	15.6	
Solar Turbine T70 SCR-SCR Unit SW	10.5	10.5	10.5	
Tank Farm Pump 1	29.3	29.3	29.3	
Tank Farm Pump 2	29.4	29.4	29.4	
Tank Farm Pump 3	29.9	29.9	29.9	
UP Train Locomotive Delivery and Pickup	56.1		67.8	
Vaporizer Blower 1	32.1	32.1	32.1	
Vaporizer Blower 2	31.8	31.8	31.8	
Vaporizer Inlet Silencer	16.8	16.8	16.8	
Vaporizer Motor 1	26.8	26.8	26.8	
Vaporizer Motor 2	26.5	26.5	26.5	
Water Treatment Pumps P-056A&B	36.3	36.3	36.3	
XF-1502 Splitter Area 1	48.4	48.4	48.4	
XF-1502 Splitter Area 2	48.3	48.3	48.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 1

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day hr dB(A)	
XF-1504 Splitter Area 1	47.9	47.9	47.9	
XF-1504 Splitter Area 2	47.9	47.9	47.9	
XF - 1601	38.9	38.9	38.9	
XF - 1602	41.1	41.1	41.1	
XF 304, XF 321	49.8	49.8	49.8	
XF 313, XF 314	43.8	43.8	43.8	
XF 335-1, XF 335-2	47.5	47.5	47.5	
XF 503	56.2	56.2	56.2	
XF Module 1510	52.7	52.7	52.7	
XF Module 1519	53.4	53.4	53.4	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Receiver W-1 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 67.8 dB(A)			Ld 7-19 dB(A)		Leq,N 67.0 dB(A)		Le 19-22 dB(A)		CNEL 73.8 dB(A)		Lmax day hr dB(A)	Lc
ID Fan Motor	Leq,D	104.4	2	379.08	-62.6	5.2	-11.7	-1.8		0.0	0.0	0.0	0.0	33.5
18-1855 A/B	Leq,D	98.8		392.31	-62.9	5.5	-9.1	-1.2		0.0	1.1	0.0	0.0	32.2
18-1856 A/B	Leq,D	98.8		399.03	-63.0	5.5	-15.1	-1.2	-0.78	0.0	3.8	0.0	0.0	28.0
18-1857 A/B	Leq,D	98.8		385.81	-62.7	5.5	-9.5	-1.2		0.0	1.2	0.0	0.0	32.1
18-1858 A/B	Leq,D	98.8		381.35	-62.6	5.3	-9.7	-1.2		0.0	1.3	0.0	0.0	31.9
18-PK 1802 Air Compressor Package	Leq,D	103.1		409.90	-63.2	5.7	-7.2	-0.6		0.0	0.1	0.0	0.0	37.9
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	172.43	-55.7	3.9	-0.1	-2.3	0.00	0.0	0.3	-2.7	0.0	52.4
Air Compressor C 1	Leq,D	110.0	5	170.44	-55.6	5.0	-14.0	-0.4	-0.39	0.0	4.8	0.0	0.0	49.4
Air Compressor Pump	Leq,D	100.3		325.50	-61.2	5.3	-15.2	-1.7		0.0	5.6	0.0	0.0	33.0
Blower F 401	Leq,D	113.0		206.77	-57.3	4.6	-4.5	-0.3	-0.73	0.0	0.0	0.0	0.0	54.8
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	511.82	-65.2	5.5	-13.7	-1.0	-0.54	0.0	0.0	0.0	0.0	23.7
Boiler Feed Water Pump A	Leq,D	97.1	3	392.28	-62.9	5.4	-4.5	-1.5	-0.74	0.0	0.0	0.0	0.0	33.0
Boiler Feed Water Pump B	Leq,D	97.1	3	393.24	-62.9	5.4	-5.4	-1.5		0.0	0.3	0.0	0.0	33.0
C370 A Motor	Leq,D	103.6	3	311.30	-60.9	4.6	-7.3	-1.4	-0.30	0.0	0.1	0.0	0.0	38.6
C370 B Motor	Leq,D	108.6	3	321.56	-61.1	4.7	-5.3	-1.6	-0.12	0.0	0.1	0.0	0.0	45.2
C370A	Leq,D	103.8	5	310.31	-60.8	4.7	-4.7	-1.7	-0.35	0.0	0.1	0.0	0.0	41.0
C370B	Leq,D	103.8	5	320.60	-61.1	4.7	-5.2	-1.7	-0.51	0.0	0.1	0.0	0.0	40.2
C-270 A	Leq,D	106.3	6	458.25	-64.2	5.2	-5.5	-2.3	-2.15	0.0	0.6	0.0	0.0	37.9
C-270 B	Leq,D	106.3	6	453.79	-64.1	5.1	-4.0	-2.4	-2.37	0.0	0.4	0.0	0.0	38.9
C-270 C	Leq,D	106.3	6	449.41	-64.0	5.1	-5.9	-2.2	-2.37	0.0	0.4	0.0	0.0	37.2
C-301 Compressor	Leq,D	106.8	3	463.44	-64.3	5.2	-13.9	-1.3	-0.34	0.0	0.0	0.0	0.0	32.1
C-301 Motor	Leq,D	106.8	4	459.89	-64.2	5.2	-15.4	-1.9	-0.40	0.0	0.2	0.0	0.0	30.3
C-351 Compressor	Leq,D	106.8	4	473.03	-64.5	5.2	-6.2	-2.1	-2.15	0.0	0.4	0.0	0.0	37.4
C-351 Motor	Leq,D	106.8	5	474.89	-64.5	5.0	-7.0	-2.8	-2.03	0.0	0.9	0.0	0.0	36.4
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	185.16	-56.3	4.5	-0.5	-0.5		0.0	0.1	-33.5	0.0	48.4
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	162.49	-55.2	3.8	-20.2	-0.4		-7.8	0.0	0.0	0.0	24.9
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	164.52	-55.3	3.8	-19.3	-0.6		0.0	0.2	0.0	0.0	29.4
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	152.10	-54.6	3.7	-9.6	-0.3		4.2	0.4	0.0	0.0	50.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	154.12	-54.7	3.7	-15.6	-0.3		-5.8	0.0	0.0	0.0	37.9
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	163.52	-55.3	3.8	-20.6	-0.5		-5.3	0.0	0.0	0.0	25.9
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	143.41	-54.1	3.6	-7.2	-0.8		0.7	0.2	0.0	0.0	42.8
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	231.44	-58.3	4.4	-16.9	-0.6	-0.64	-7.8	7.7	0.0	0.0	25.9
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	219.43	-57.8	4.3	-3.0	-1.2	-0.40	0.2	0.2	0.0	0.0	40.1
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	255.78	-59.1	4.1	-19.7	-0.8	-0.56	-7.8	2.3	0.0	0.0	19.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	238.26	-58.5	4.2	-7.8	-1.2	-0.52	0.2	0.5	0.0	0.0	37.4
Cooling Tower M 512	Leq,D	95.7		227.00	-58.1	5.0	-5.3	-1.1	-0.77	0.0	0.2	0.0	0.0	35.7
Cooling Tower M 513	Leq,D	95.7		225.65	-58.1	4.9	-5.6	-1.1	-0.78	0.0	0.4	0.0	0.0	35.5
Cooling Tower M 514	Leq,D	95.7		228.49	-58.2	5.0	-5.1	-1.1	-0.77	0.0	0.2	0.0	0.0	35.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	377.76	-62.5	4.0	-6.4	-0.6		-1.8	0.2	0.0	0.0	28.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	366.39	-62.3	5.0	-4.7	-0.1	-0.11	0.0	0.0	0.0	0.0	33.3
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	364.92	-62.2	5.1	-0.5	-0.2	-0.42	0.0	0.0	0.0	0.0	34.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	365.12	-62.2	4.5	-3.3	-0.2	-0.22	0.0	0.0	0.0	0.0	32.0
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	365.26	-62.2	5.0	-2.2	-0.1	-0.25	0.0	0.0	0.0	0.0	33.4
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	363.79	-62.2	5.0	-0.3	-0.2	-0.29	0.0	0.0	0.0	0.0	37.4
FD Motor	Leq,D	103.3	2	367.54	-62.3	5.2	-15.9	-1.6	-0.95	0.0	0.1	0.0	0.0	27.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor -B Motor	Leq,D	103.8	5	355.12	-62.0	4.8	-15.3	-1.5		0.0	3.1	0.0	0.0	32.9
Feed Compressor-A Compressor	Leq,D	104.0	5	339.94	-61.6	4.9	-15.6	-1.1	-0.72	0.0	0.5	0.0	0.0	30.4
Feed Compressor-A Motor	Leq,D	103.8	6	341.43	-61.7	4.7	-21.8	-2.0	-0.17	0.0	4.5	0.0	0.0	27.4
Feed Compressor-B Compressor	Leq,D	104.0	7	353.60	-62.0	4.9	-6.8	-1.7	-0.18	0.0	0.3	0.0	0.0	38.6
H2S Compressor 18-C-271	Leq,D	105.3	6	172.45	-55.7	4.3	-10.0	-0.7	-0.31	0.0	1.7	0.0	0.0	44.6
Heater # 5-Heater	Leq,D	91.1	13	508.46	-65.1	5.5	-19.2	-1.0	-0.60	0.0	0.0	0.0	0.0	13.7
Heater # 5-Heater	Leq,D	91.1	13	503.98	-65.0	5.5	-19.0	-1.0	-0.53	0.0	0.0	0.0	0.0	14.0
Heater # 5-Heater	Leq,D	91.1	13	512.84	-65.2	5.5	-18.9	-1.0	-0.77	0.0	0.2	0.0	0.0	14.0
Hydro Heater H-402	Leq,D	98.1		201.19	-57.1	4.8	-7.7	-0.4	-0.83	0.0	0.0	0.0	0.0	37.0
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	380.35	-62.6	5.2	-9.8	-0.1	-0.06	0.0	0.0	0.0	0.0	19.6
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	380.64	-62.6	5.2	-15.6	-0.1		0.0	0.0	0.0	0.0	14.2
ID Fan-ID Fan - North	Leq,D	92.2	8	378.90	-62.6	5.2	-8.3	-0.1		0.0	0.0	0.0	0.0	26.4
ID Fan-ID Fan - North 2	Leq,D	91.4	7	381.53	-62.6	5.2	-9.1	-0.1		0.0	0.0	0.0	0.0	24.8
ID Fan-ID Fan - South	Leq,D	92.3	9	379.25	-62.6	5.2	-15.3	-0.1		0.0	0.0	0.0	0.0	19.6
ID Fan-ID Fan - South 2	Leq,D	91.4	7	381.72	-62.6	5.2	-15.4	-0.1	-0.14	0.0	0.0	0.0	0.0	18.4
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	379.75	-62.6	4.9	-12.8	-0.1		0.0	0.0	0.0	0.0	23.4
Motor & Pump P 56A/B	Leq,D	93.7		188.98	-56.5	4.8	-5.7	-1.1	-0.49	0.0	0.3	0.0	0.0	35.0
Motor & Pump P 120/121	Leq,D	96.2	2	170.48	-55.6	4.8	-5.3	-0.7	-0.05	0.0	0.0	0.0	0.0	39.4
Motor & Pump P 211/212	Leq,D	93.7		178.73	-56.0	4.9	-13.4	-0.7	-0.29	0.0	0.0	0.0	0.0	28.1
Motor & Pump P 215/214	Leq,D	94.6		176.42	-55.9	4.9	-18.7	-0.8	-0.17	0.0	0.0	0.0	0.0	23.9
Motor & Pump P 216	Leq,D	98.3		172.49	-55.7	4.7	-11.9	-0.8	-0.13	0.0	0.0	0.0	0.0	34.4
Motor & Pump P 217/218	Leq,D	93.7		177.75	-56.0	5.2	-16.6	-0.8	-0.23	0.0	0.0	0.0	0.0	25.3
Motor & Pump P 300	Leq,D	97.1	2	158.59	-55.0	4.8	-8.6	-0.5	-0.19	0.0	0.1	0.0	0.0	37.7
Motor & Pump P 301	Leq,D	102.1	2	158.58	-55.0	4.8	-7.1	-0.6	-0.20	0.0	0.3	0.0	0.0	44.3
Motor & Pump P 302	Leq,D	97.1	2	158.62	-55.0	4.8	-5.4	-0.7	-0.22	0.0	0.0	0.0	0.0	40.6
Motor & Pump P 303	Leq,D	97.1	2	158.56	-55.0	4.7	-3.1	-1.1	-0.38	0.0	0.0	0.0	0.0	42.3
Motor & Pump P 305	Leq,D	97.5	2	158.61	-55.0	4.7	-3.1	-1.1	-0.38	0.0	0.0	0.0	0.0	42.7
Motor & Pump P 306	Leq,D	112.6	4	159.33	-55.0	4.5	-6.5	-0.7	-0.20	0.0	0.1	0.0	0.0	54.8
Motor & Pump P 307	Leq,D	102.1	2	158.65	-55.0	4.8	-3.4	-1.1	-0.38	0.0	0.1	0.0	0.0	47.1
Motor & Pump P 309	Leq,D	97.5	2	158.68	-55.0	4.7	-3.1	-1.1	-0.38	0.0	2.8	0.0	0.0	45.5
Motor & Pump P 312	Leq,D	101.5	2	160.89	-55.1	5.0	-14.0	-0.5	-0.13	0.0	1.1	0.0	0.0	37.9
Motor & Pump P 313	Leq,D	101.5	2	161.20	-55.1	5.0	-12.0	-0.5	-0.43	0.0	0.7	0.0	0.0	39.1
Motor & Pump P 315	Leq,D	102.9	2	162.24	-55.2	4.8	-11.5	-0.5	-0.43	0.0	0.8	0.0	0.0	40.9
Motor & Pump P 316	Leq,D	102.9	2	162.68	-55.2	4.8	-4.7	-0.8	-0.41	0.0	0.0	0.0	0.0	46.6
Motor & Pump P 317	Leq,D	102.9	2	163.25	-55.2	4.7	-3.2	-1.2	-0.40	0.0	0.1	0.0	0.0	47.7
Motor & Pump P 318	Leq,D	100.2	1	162.31	-55.2	5.1	-11.1	-0.5	-0.44	0.0	0.0	0.0	0.0	38.0
Motor & Pump P 319	Leq,D	100.2	1	162.01	-55.2	5.1	-13.6	-0.5	-0.44	0.0	0.0	0.0	0.0	35.5
Motor & Pump P 327	Leq,D	111.2	3	159.68	-55.1	4.7	-2.3	-1.7	-0.37	0.0	2.8	0.0	0.0	59.4
Motor & Pump P 328	Leq,D	109.9	5	158.91	-55.0	4.5	-2.0	-1.1	-0.38	0.0	2.8	0.0	0.0	58.7
Motor & Pump P 329	Leq,D	110.2	5	159.11	-55.0	4.5	-2.0	-1.0	-0.37	0.0	2.8	0.0	0.0	59.0
Motor & Pump P 451	Leq,D	93.7		204.50	-57.2	4.9	-16.5	-1.0	-0.76	0.0	3.8	0.0	0.0	26.9
Motor & Pump P 453	Leq,D	93.7		211.33	-57.5	4.9	-15.3	-0.8	-0.79	0.0	2.5	0.0	0.0	26.6
Motor & Pump P 454	Leq,D	93.7		202.96	-57.1	4.9	-16.6	-0.9	-0.76	0.0	3.3	0.0	0.0	26.4
Motor & Pump P 457	Leq,D	93.7		211.91	-57.5	4.9	-18.1	-1.1	-0.80	0.0	0.7	0.0	0.0	21.8
Motor & Pump P 458	Leq,D	93.7		205.59	-57.3	4.9	-16.4	-1.0	-0.76	0.0	3.8	0.0	0.0	27.0
Motor & Pump P 459	Leq,D	93.7		202.63	-57.1	4.9	-16.4	-0.9	-0.76	0.0	3.1	0.0	0.0	26.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		210.75	-57.5	5.0	-11.9	-0.8	-0.64	0.0	3.0	0.0	0.0	33.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		210.45	-57.5	5.0	-12.4	-0.8	-0.64	0.0	2.9	0.0	0.0	32.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		216.12	-57.7	5.1	0.0	-1.9	-0.70	0.0	0.3	0.0	0.0	40.5
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		216.10	-57.7	5.1	0.0	-1.9	-0.70	0.0	0.3	0.0	0.0	40.5
Motor & Pump P 1601 A	Leq,D	96.3	2	238.51	-58.5	4.9	-12.8	-0.9	-0.31	0.0	3.0	0.0	0.0	31.6
Motor & Pump P 1601 B	Leq,D	96.3	2	240.04	-58.6	4.9	-12.8	-0.9	-0.31	0.0	2.9	0.0	0.0	31.5
Motor & Pump P 1602 A	Leq,D	96.3	2	241.23	-58.6	4.9	-12.8	-0.9	-0.31	0.0	2.8	0.0	0.0	31.4
Motor & Pump P 1602 B	Leq,D	96.5	2	242.71	-58.7	4.9	-12.7	-0.9	-0.31	0.0	2.8	0.0	0.0	31.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	219.81	-57.8	5.1	-12.4	-0.8	-0.77	0.0	2.0	0.0	0.0	31.9
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	218.93	-57.8	5.1	-12.9	-0.8	-0.17	0.0	3.4	0.0	0.0	33.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	218.57	-57.8	5.1	-11.1	-1.0	-0.17	0.0	2.7	0.0	0.0	34.2
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	210.74	-57.5	5.0	-12.7	-0.8	-0.64	0.0	2.0	0.0	0.0	32.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	210.44	-57.5	5.0	-14.1	-0.9	-0.17	0.0	2.9	0.0	0.0	32.1
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	224.64	-58.0	5.1	-8.7	-1.3	-0.89	0.0	0.1	0.0	0.0	32.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	222.36	-57.9	5.1	-8.9	-1.2	-0.84	0.0	0.2	0.0	0.0	32.7
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	218.37	-57.8	5.1	-9.4	-1.2	-0.76	0.0	0.3	0.0	0.0	32.5
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	220.14	-57.8	5.1	-9.2	-1.2	-0.80	0.0	0.2	0.0	0.0	32.5
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	196.20	-56.8	4.5	-8.2	-0.9	-0.37	0.0	0.8	0.0	0.0	43.2
P-2 A/B	Leq,D	98.5		575.27	-66.2	5.8	-21.4	-1.9		0.0	0.2	0.0	0.0	15.1
P-50 A/B	Leq,D	98.1		532.23	-65.5	5.8	-19.2	-1.5	-2.79	0.0	0.1	0.0	0.0	15.0
P-51 A/B	Leq,D	98.1		533.70	-65.5	5.8	-22.9	-2.0	-0.23	0.0	0.1	0.0	0.0	13.4
P-060 A/B	Leq,D	98.1		528.48	-65.5	5.8	-15.2	-1.5	-1.35	0.0	0.0	0.0	0.0	20.4
P-63	Leq,D	98.5		549.99	-65.8	5.8	-9.8	-1.6	-1.79	0.0	1.1	0.0	0.0	26.4
P-70 A/B	Leq,D	98.1		530.11	-65.5	5.8	-15.4	-1.5	-1.63	0.0	0.0	0.0	0.0	19.9
P-73 A/B	Leq,D	98.5		571.08	-66.1	5.8	-21.0	-1.9		0.0	0.7	0.0	0.0	16.0
P-251 A/B	Leq,D	98.2		397.46	-63.0	5.7	-3.0	-1.6	-1.94	0.0	0.0	0.0	0.0	34.3
P-252 A/B	Leq,D	98.2		396.32	-63.0	5.7	-11.1	-1.2	-1.45	0.0	0.0	0.0	0.0	27.2
P-253	Leq,D	98.2		403.57	-63.1	5.7	-10.1	-1.2	-1.45	0.0	0.0	0.0	0.0	28.0
P-254 A/B	Leq,D	98.2		408.01	-63.2	5.7	-4.1	-1.7	-1.96	0.0	0.0	0.0	0.0	32.9
P-255 A/B	Leq,D	98.2		404.80	-63.1	5.7	-3.9	-1.7	-1.96	0.0	0.0	0.0	0.0	33.2
P-255 A/B	Leq,D	98.2		390.68	-62.8	5.7	-5.5	-1.4	-1.89	0.0	0.0	0.0	0.0	32.2
P-256 A/B	Leq,D	98.2		400.63	-63.0	5.7	-5.1	-1.8	-1.94	0.0	0.0	0.0	0.0	32.0
P-259 A/B	Leq,D	98.2		394.17	-62.9	5.7	-2.4	-1.7	-1.92	0.0	0.0	0.0	0.0	35.0
P-260	Leq,D	99.1		377.97	-62.5	5.7	-5.7	-1.5	-1.39	0.0	0.0	0.0	0.0	33.6
P-261 A/B	Leq,D	98.0		355.93	-62.0	5.7	-6.6	-1.2	-1.08	0.0	0.0	0.0	0.0	32.7
P-262 A/B	Leq,D	99.1		369.97	-62.4	5.7	-3.4	-1.5	-1.38	0.0	0.0	0.0	0.0	36.2
P-263 A/B	Leq,D	99.4		373.72	-62.4	5.7	-4.3	-1.4	-1.38	0.0	0.0	0.0	0.0	35.5
P-270 A/B	Leq,D	98.5		447.32	-64.0	5.7	-17.0	-1.3	-1.42	0.0	0.0	0.0	0.0	20.6
P-271 A/B	Leq,D	98.2		417.20	-63.4	5.7	-12.4	-1.2	-1.11	0.0	0.0	0.0	0.0	25.8
P-272 A/B	Leq,D	98.2		412.74	-63.3	5.7	-6.8	-1.4	-2.00	0.0	0.0	0.0	0.0	30.4
P-273 A/B	Leq,D	98.5		444.00	-63.9	5.7	-17.0	-1.3	-1.45	0.0	0.0	0.0	0.0	20.6
P-275 A/B/C	Leq,D	98.2		414.20	-63.3	5.7	-10.6	-1.3	-1.41	0.0	0.0	0.0	0.0	27.2
P-305	Leq,D	99.3		484.21	-64.7	5.8	-5.0	-2.1	-1.03	0.0	0.0	0.0	0.0	32.2
P-306	Leq,D	100.8		493.10	-64.9	5.8	-5.1	-2.1	-1.71	0.0	0.0	0.0	0.0	32.9
P-309	Leq,D	99.3		486.33	-64.7	5.8	-5.0	-2.1	-1.18	0.0	0.0	0.0	0.0	32.0
P-328	Leq,D	100.8		498.37	-64.9	5.8	-5.0	-2.1	-2.12	0.0	0.0	0.0	0.0	32.4
P-329	Leq,D	100.8		495.75	-64.9	5.8	-5.0	-2.1	-1.93	0.0	0.0	0.0	0.0	32.6
P-353	Leq,D	98.5		479.86	-64.6	5.6	-2.2	-1.9	-2.43	0.0	0.2	0.0	0.0	33.2
P-358 A/B	Leq,D	99.4		488.11	-64.8	5.8	-7.0	-1.7	-2.61	0.0	0.0	0.0	0.0	29.1
P-359 A/B	Leq,D	99.4		490.04	-64.8	5.8	-17.0	-1.4	-2.91	0.0	0.1	0.0	0.0	19.1
P-360 A/B	Leq,D	99.4		493.78	-64.9	5.8	-10.9	-1.4	-1.42	0.0	0.9	0.0	0.0	27.5
P-361A	Leq,D	98.1		521.04	-65.3	5.6	-8.7	-1.6	-0.22	0.0	0.0	0.0	0.0	27.9
P-371 A/B	Leq,D	98.0		267.79	-59.5	5.2	-9.1	-0.9	-0.77	0.0	0.0	0.0	0.0	33.0
P-373 A/B	Leq,D	98.0		285.93	-60.1	5.3	-6.2	-1.1	-0.75	0.0	0.0	0.0	0.0	35.2
P-374 A/B	Leq,D	98.0		282.23	-60.0	5.3	-6.7	-1.0	-0.76	0.0	0.0	0.0	0.0	34.8
P-375 A/B	Leq,D	98.0		273.83	-59.7	5.2	-10.6	-0.9		0.0	0.1	0.0	0.0	32.1
P-376	Leq,D	98.0		279.87	-59.9	5.3	-7.3	-1.0		0.0	0.0	0.0	0.0	35.0

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-376 A/B	Leq,D	98.0		289.88	-60.2	5.3	-5.6	-1.2	-0.73	0.0	0.0	0.0	0.0	35.6
P-377	Leq,D	98.0		277.68	-59.9	5.3	-7.6	-1.0		0.0	0.0	0.0	0.0	34.9
P-1101 A	Leq,D	98.9		559.69	-66.0	5.6	-15.4	-1.6	-2.00	0.0	0.2	0.0	0.0	19.7
P-1103	Leq,D	98.9		558.29	-65.9	5.6	-15.5	-1.6	-2.01	0.0	0.2	0.0	0.0	19.6
P-1105 A/B/C	Leq,D	98.9		564.90	-66.0	5.6	-17.7	-1.6	-0.26	0.0	0.2	0.0	0.0	19.1
P-1800	Leq,D	98.9		604.64	-66.6	5.8	-13.6	-1.8	-2.92	0.0	3.9	0.0	0.0	23.7
P-1801	Leq,D	98.9		649.14	-67.2	5.8	-24.7	-2.7		0.0	8.5	0.0	0.0	18.6
P-1802	Leq,D	98.9		648.16	-67.2	5.8	-24.9	-2.7		0.0	5.5	0.0	0.0	15.4
P-1803	Leq,D	99.1		528.14	-65.4	5.8	-24.8	-2.3		0.0	0.0	0.0	0.0	12.3
P-1804	Leq,D	99.1		545.32	-65.7	5.8	-13.3	-1.6	-0.32	0.0	0.0	0.0	0.0	24.0
P-1805	Leq,D	99.1		548.33	-65.8	5.8	-13.3	-1.6	-0.32	0.0	0.0	0.0	0.0	23.9
P-1806	Leq,D	99.1		504.94	-65.1	5.8	-10.2	-1.5		0.0	0.1	0.0	0.0	28.2
P-1809 A	Leq,D	98.9		613.87	-66.8	5.8	-20.4	-1.7		0.0	10.5	0.0	0.0	26.3
P-1810 A/B/C	Leq,D	99.0		547.26	-65.8	5.8	-24.8	-2.3		0.0	2.5	0.0	0.0	14.4
P-1811 A/B	Leq,D	99.1		511.55	-65.2	5.8	-13.9	-1.5		0.0	0.0	0.0	0.0	24.3
P-1811 A/B	Leq,D	99.1		552.07	-65.8	5.8	-13.2	-1.6	-0.32	0.0	0.0	0.0	0.0	24.0
P-1847 A/B	Leq,D	99.4		504.46	-65.0	5.8	-10.4	-1.4		0.0	1.2	0.0	0.0	29.5
P-1849 A/B	Leq,D	99.4		511.02	-65.2	5.8	-11.0	-1.4		0.0	1.4	0.0	0.0	29.0
P-1853	Leq,D	99.1		436.06	-63.8	5.7	-2.5	-1.8	-0.56	0.0	0.2	0.0	0.0	36.3
Piping Furnace Tanks	Leq,D	87.1	72	333.17	-61.4	3.9	-18.6	-4.7	-0.03	0.0	2.0	0.0	0.0	8.2
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	324.51	-61.2	4.0	-12.9	-5.8	-0.21	0.0	2.5	0.0	0.0	24.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	290.56	-60.3	4.5	-21.0	-1.9	-0.51	0.0	0.7	0.0	0.0	36.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	293.40	-60.3	4.5	-22.5	-4.4	-0.43	0.0	0.9	0.0	0.0	32.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	598.39	-66.5	4.8	-23.1	-2.2		0.0	5.1	0.0	0.0	28.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	571.50	-66.1	4.7	-11.1	-1.6		0.0	0.0	0.0	0.0	37.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	545.82	-65.7	4.6	-8.9	-1.5		0.0	0.1	0.0	0.0	32.7
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	579.02	-66.2	4.7	-18.1	-1.8		0.0	5.6	0.0	0.0	35.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	549.05	-65.8	4.6	-17.8	-1.7		0.0	6.9	0.0	0.0	30.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	549.61	-65.8	4.6	-12.5	-1.5		0.0	1.1	0.0	0.0	29.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	542.96	-65.7	4.6	-8.3	-1.6		0.0	0.9	0.0	0.0	36.8
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	555.06	-65.9	4.7	-13.1	-1.6		0.0	1.2	0.0	0.0	31.4
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	573.02	-66.2	3.5	-16.6	-1.6		0.0	4.1	0.0	0.0	36.4
PSA Pipe 3" Lagging	Leq,D	80.6	11	309.37	-60.8	3.1	-9.0	-2.1	-0.05	0.0	2.2	0.0	0.0	13.9
PSA Skid Additional Piping w NC	Leq,D	116.6	57	288.27	-60.2	4.5	-20.5	-1.8	-0.50	0.0	0.5	0.0	0.0	38.6
Reformer-Burner Reformer East	Leq,D	97.3	269	345.95	-61.8	3.5	-1.1	-2.2	-0.55	0.0	0.1	0.0	0.0	38.2
Reformer-Burner Reformer North	Leq,D	95.9	192	337.26	-61.6	3.4	-8.9	-1.4	-0.03	0.0	0.2	0.0	0.0	27.6
Reformer-Burner Reformer South	Leq,D	95.8	191	356.28	-62.0	3.3	-19.4	-1.5	0.00	0.0	1.4	0.0	0.0	20.7
Reformer-Burner Reformer West	Leq,D	97.3	268	347.26	-61.8	3.0	-19.6	-1.4		0.0	0.9	0.0	0.0	21.4
RFG A from battery to process	Leq,D	99.4	87	329.86	-61.4	4.0	-14.0	-5.5	-0.20	0.0	3.2	0.0	0.0	25.7
RFG A from battery to process w NC	Leq,D	115.2	42	293.04	-60.3	4.5	-23.2	-5.2	-0.58	0.0	0.6	0.0	0.0	30.9
Stack Noise	Leq,D	108.4		385.96	-62.7	3.0	-7.4	-0.6		-5.0	0.0	0.0	0.0	35.7
Steam Turbine-Facade 01	Leq,D	99.6	29	287.10	-60.2	5.0	-17.6	-2.5	-0.68	0.0	0.4	0.0	0.0	24.1
Steam Turbine-Facade 02	Leq,D	96.2	13	290.72	-60.3	5.0	-21.3	-3.0	-0.31	0.0	0.1	0.0	0.0	16.5
Steam Turbine-Facade 03	Leq,D	99.6	29	286.41	-60.1	5.0	-14.3	-1.7		0.0	0.6	0.0	0.0	29.1
Steam Turbine-Facade 04	Leq,D	96.2	13	282.84	-60.0	5.0	-13.5	-1.7	-0.43	0.0	1.6	0.0	0.0	27.1
Steam Turbine-Roof 01	Leq,D	99.7	30	286.74	-60.1	4.4	-20.9	-2.2	-0.35	0.0	3.7	0.0	0.0	24.2
Tank Farm Pump 1	Leq,D	99.0	3	488.82	-64.8	5.6	-16.1	-2.1		0.0	4.3	0.0	0.0	26.0
Tank Farm Pump 2	Leq,D	99.0	3	510.10	-65.1	5.6	-17.9	-2.1		0.0	6.0	0.0	0.0	25.4
Tank Farm Pump 3	Leq,D	99.0	3	516.07	-65.2	5.6	-17.8	-2.1		0.0	8.2	0.0	0.0	27.6

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	45.67	-44.2	2.9	0.0	-0.7		0.0	0.0	-11.8	0.0	58.7
XF-1502 Splitter Area 1	Leq,D	104.5		220.76	-57.9	3.0	-9.1	-0.9	-0.08	-3.2	0.7	0.0	0.0	37.0
XF-1502 Splitter Area 2	Leq,D	104.5		221.29	-57.9	3.0	-12.0	-0.7	-0.02	-2.8	1.1	0.0	0.0	35.2
XF-1504 Splitter Area 1	Leq,D	104.5		225.12	-58.0	3.0	-8.8	-0.9	-0.13	-3.3	0.7	0.0	0.0	37.0
XF-1504 Splitter Area 2	Leq,D	104.5		225.65	-58.1	3.0	-11.8	-0.7	-0.02	-2.8	1.1	0.0	0.0	35.1
XF 251, 250, 271, 270	Leq,D	101.1	128	415.26	-63.4	4.0	-3.6	-1.1	-0.56	-2.4	0.0	0.0	0.0	34.0
XF 260, 261A, 261 B	Leq,D	99.9	97	367.73	-62.3	3.7	-1.4	-1.1	-0.87	-2.7	0.0	0.0	0.0	35.2
XF 304, XF 321	Leq,D	110.5	56	152.74	-54.7	3.0	-2.3	-0.6	-0.24	-2.7	0.2	0.0	0.0	53.2
XF 313, XF 314	Leq,D	113.0	18	155.50	-54.8	3.0	-4.7	-0.5	-0.03	-3.4	0.9	0.0	0.0	53.4
XF 335-1, XF 335-2	Leq,D	113.4	54	153.31	-54.7	3.0	-0.7	-0.9	-0.29	-3.2	0.3	0.0	0.0	56.9
XF 353A/B	Leq,D	95.4	35	497.91	-64.9	4.3	-3.4	-1.3	-0.27	-2.4	0.0	0.0	0.0	27.5
XF 353A/B	Leq,D	95.4	35	478.34	-64.6	4.2	-8.4	-0.7	0.00	-1.6	0.0	0.0	0.0	24.4
XF 354A/B	Leq,D	95.4	35	481.08	-64.6	4.3	-1.6	-1.3	-0.45	-2.5	0.0	0.0	0.0	29.2
XF 503	Leq,D	113.0	21	178.38	-56.0	3.0	-8.8	-0.8	-0.32	-3.2	0.6	0.0	0.0	47.5
XF - 1601	Leq,D	96.6		241.24	-58.6	3.0	-7.9	-0.4		-1.1	0.2	0.0	0.0	31.8
XF - 1602	Leq,D	96.6		247.07	-58.8	3.0	-7.9	-0.4		-1.1	0.2	0.0	0.0	31.6
XF Module 1510	Leq,D	108.3		216.13	-57.7	3.0	-11.2	-0.7	-0.09	-2.8	0.9	0.0	0.0	39.7
XF Module 1519	Leq,D	109.0		215.27	-57.7	3.0	-12.0	-0.7	-0.04	-2.8	1.0	0.0	0.0	39.9
xxxx xxxx xxxx xxxx	Leq,D		228								11.0			16.5
xxxx xxxx xxxx xxxx	Leq,D		520								7.6			21.9
xxxx xxxx xxxx xxxx	Leq,D		1341								8.3			32.3
xxxx xxxx xxxx xxxx	Leq,D		450								10.6			20.5
Receiver W-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.1 dB(A) Ld 7-19 dB(A) Leq,N 65.1 dB(A) Le 19-22 dB(A) CNEL 71.7 dB(A) Lmax day hr dB(A) Lc														
ID Fan Motor	Leq,D	104.4	2	396.98	-63.0	5.3	-16.7	-1.6		0.0	0.1	0.0	0.0	28.4
18-1855 A/B	Leq,D	98.8		428.59	-63.6	5.6	-17.4	-1.2	-1.08	0.0	0.0	0.0	0.0	21.0
18-1856 A/B	Leq,D	98.8		434.75	-63.8	5.6	-16.0	-1.3	-1.07	0.0	0.0	0.0	0.0	22.3
18-1857 A/B	Leq,D	98.8		422.64	-63.5	5.6	-12.1	-1.3	-1.08	0.0	0.0	0.0	0.0	26.3
18-1858 A/B	Leq,D	98.8		418.59	-63.4	5.4	-11.6	-1.3	-1.08	0.0	0.0	0.0	0.0	26.8
18-PK 1802 Air Compressor Package	Leq,D	103.1		447.28	-64.0	5.7	-8.9	-0.7	-1.16	0.0	0.0	0.0	0.0	34.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	286.98	-60.1	4.9	-11.4	-1.3	-0.28	0.0	1.5	-2.7	0.0	39.6
Air Compressor C 1	Leq,D	110.0	5	186.48	-56.4	5.1	-18.7	-0.4	-0.41	0.0	2.5	0.0	0.0	41.7
Air Compressor Pump	Leq,D	100.3		371.08	-62.4	5.4	-20.5	-1.9	-0.75	0.0	0.0	0.0	0.0	20.1
Blower F 401	Leq,D	113.0		262.47	-59.4	4.9	-10.5	-0.3	-0.94	0.0	0.0	0.0	0.0	46.7
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	561.52	-66.0	5.5	-21.5	-1.4	-0.59	0.0	0.0	0.0	0.0	14.7
Boiler Feed Water Pump A	Leq,D	97.1	3	423.34	-63.5	5.5	-11.6	-1.3	-1.02	0.0	0.0	0.0	0.0	25.0
Boiler Feed Water Pump B	Leq,D	97.1	3	424.96	-63.6	5.5	-4.6	-1.8	-1.01	0.0	0.0	0.0	0.0	31.6
C370 A Motor	Leq,D	103.6	3	347.19	-61.8	4.8	-13.9	-1.1		0.0	0.0	0.0	0.0	31.6
C370 B Motor	Leq,D	108.6	3	356.49	-62.0	4.8	-7.8	-1.3	-0.98	0.0	0.0	0.0	0.0	41.2
C370A	Leq,D	103.8	5	345.14	-61.8	4.8	-8.8	-1.2	-0.98	0.0	0.0	0.0	0.0	35.8
C370B	Leq,D	103.8	5	354.50	-62.0	4.8	-3.4	-1.8	-0.98	0.0	0.0	0.0	0.0	40.5
C-270 A	Leq,D	106.3	6	502.56	-65.0	5.2	-7.0	-2.4	-1.51	0.0	0.1	0.0	0.0	35.7
C-270 B	Leq,D	106.3	6	498.53	-64.9	5.2	-4.5	-2.7	-1.68	0.0	0.1	0.0	0.0	37.7
C-270 C	Leq,D	106.3	6	494.54	-64.9	5.2	-6.1	-2.6	-1.71	0.0	0.1	0.0	0.0	36.3
C-301 Compressor	Leq,D	106.8	3	502.82	-65.0	5.2	-12.7	-1.5	-0.24	0.0	0.0	0.0	0.0	32.6
C-301 Motor	Leq,D	106.8	4	499.55	-65.0	5.2	-11.5	-2.0	-0.28	0.0	0.0	0.0	0.0	33.2
C-351 Compressor	Leq,D	106.8	4	514.89	-65.2	5.2	-9.6	-1.7	-0.77	0.0	0.0	0.0	0.0	34.7
C-351 Motor	Leq,D	106.8	5	517.46	-65.3	5.1	-11.3	-2.1	-0.98	0.0	0.0	0.0	0.0	32.2
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	271.27	-59.7	5.1	-9.6	-0.5	-0.26	0.0	0.0	-33.5	0.0	36.3
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	212.24	-57.5	4.2	-19.9	-0.5		-7.7	0.0	0.0	0.0	23.3
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	211.54	-57.5	4.2	-18.7	-0.7	-0.16	0.0	0.0	0.0	0.0	27.7
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	201.09	-57.1	4.1	-5.9	-0.7	-0.04	2.4	0.1	0.0	0.0	49.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	207.19	-57.3	4.1	-20.9	-0.6		-7.7	0.0	0.0	0.0	28.3
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	211.96	-57.5	4.2	-19.8	-0.5	-0.02	-7.7	0.0	0.0	0.0	22.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	196.89	-56.9	4.0	-11.3	-0.8		2.6	0.8	0.0	0.0	38.9
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	267.21	-59.5	4.7	-19.3	-0.8	-0.49	-7.8	7.2	0.0	0.0	21.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	257.01	-59.2	4.5	-3.9	-1.4	-0.67	1.7	0.0	0.0	0.0	38.8
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	288.80	-60.2	4.3	-18.4	-0.8	-0.82	-7.8	10.9	0.0	0.0	27.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	273.49	-59.7	4.4	-10.6	-0.8	-0.15	1.5	0.0	0.0	0.0	35.3
Cooling Tower M 512	Leq,D	95.7		265.67	-59.5	5.1	-12.2	-1.0	-0.75	0.0	0.2	0.0	0.0	27.6
Cooling Tower M 513	Leq,D	95.7		264.57	-59.4	5.1	-3.3	-1.2	-0.73	0.0	0.0	0.0	0.0	36.1
Cooling Tower M 514	Leq,D	95.7		266.98	-59.5	5.1	-14.5	-1.0	-0.75	0.0	0.7	0.0	0.0	25.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	404.02	-63.1	4.2	-6.1	-0.8	-0.11	-2.0	0.0	0.0	0.0	27.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	383.07	-62.7	5.1	-12.9	-0.1		0.0	0.1	0.0	0.0	24.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	381.16	-62.6	5.1	-7.9	-0.1		0.0	0.0	0.0	0.0	27.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	381.86	-62.6	4.6	-8.7	-0.1		0.0	0.9	0.0	0.0	27.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	382.51	-62.6	5.1	-9.8	-0.1		0.0	0.0	0.0	0.0	25.7
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	380.60	-62.6	5.1	-7.8	-0.1		0.0	0.8	0.0	0.0	30.7
FD Motor	Leq,D	103.3	2	384.16	-62.7	5.2	-22.6	-2.4		0.0	0.1	0.0	0.0	20.9
Feed Compressor -B Motor	Leq,D	103.8	5	389.60	-62.8	4.9	-2.4	-3.0	-1.04	0.0	0.0	0.0	0.0	39.5
Feed Compressor-A Compressor	Leq,D	104.0	5	374.42	-62.5	5.0	-5.4	-1.8	-0.98	0.0	0.3	0.0	0.0	38.6
Feed Compressor-A Motor	Leq,D	103.8	6	377.06	-62.5	4.9	-14.5	-1.7	-1.10	0.0	1.0	0.0	0.0	29.8
Feed Compressor-B Compressor	Leq,D	104.0	7	386.82	-62.7	5.0	-3.6	-1.9	-0.05	0.0	0.0	0.0	0.0	40.7
H2S Compressor 18-C-271	Leq,D	105.3	6	204.71	-57.2	4.5	-3.8	-1.3	-0.45	0.0	0.9	0.0	0.0	48.0
Heater # 5-Heater	Leq,D	91.1	13	557.85	-65.9	5.5	-21.8	-1.3	-0.67	0.0	0.0	0.0	0.0	9.9
Heater # 5-Heater	Leq,D	91.1	13	553.77	-65.9	5.5	-22.6	-1.5	-0.55	0.0	0.0	0.0	0.0	9.0
Heater # 5-Heater	Leq,D	91.1	13	561.85	-66.0	5.5	-21.2	-1.3	-1.09	0.0	0.5	0.0	0.0	10.6
Hydro Heater H-402	Leq,D	98.1		244.17	-58.7	5.0	-15.7	-0.5	-0.30	0.0	0.1	0.0	0.0	28.0
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	398.62	-63.0	5.3	-14.5	-0.1		0.0	0.0	0.0	0.0	14.7
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	399.44	-63.0	5.3	-14.4	-0.1		0.0	0.0	0.0	0.0	15.0
ID Fan-ID Fan - North	Leq,D	92.2	8	397.15	-63.0	5.3	-11.5	-0.1		0.0	0.0	0.0	0.0	23.0
ID Fan-ID Fan - North 2	Leq,D	91.4	7	399.85	-63.0	5.3	-13.3	-0.1		0.0	0.0	0.0	0.0	20.2
ID Fan-ID Fan - South	Leq,D	92.3	9	398.22	-63.0	5.3	-16.7	-0.1		0.0	0.0	0.0	0.0	17.8
ID Fan-ID Fan - South 2	Leq,D	91.4	7	400.37	-63.0	5.3	-12.1	-0.1		0.0	0.0	0.0	0.0	21.4
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	398.33	-63.0	4.9	-12.2	-0.1		0.0	0.0	0.0	0.0	23.6
Motor & Pump P 56A/B	Leq,D	93.7		227.98	-58.2	5.0	-3.0	-1.7	-0.58	0.0	1.0	0.0	0.0	36.3
Motor & Pump P 120/121	Leq,D	96.2	2	192.71	-56.7	5.0	-5.1	-0.8	-0.14	0.0	0.0	0.0	0.0	38.4
Motor & Pump P 211/212	Leq,D	93.7		229.90	-58.2	5.1	-20.2	-1.1	-0.23	0.0	0.0	0.0	0.0	19.0
Motor & Pump P 215/214	Leq,D	94.6		226.07	-58.1	5.1	-20.3	-1.1	-0.23	0.0	0.1	0.0	0.0	20.1
Motor & Pump P 216	Leq,D	98.3		224.97	-58.0	5.0	-20.9	-1.1	-0.17	0.0	0.0	0.0	0.0	23.1
Motor & Pump P 217/218	Leq,D	93.7		228.38	-58.2	5.4	-21.1	-1.2	-0.23	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 300	Leq,D	97.1	2	181.23	-56.2	4.9	-4.1	-1.1	-0.44	0.0	1.1	0.0	0.0	41.3
Motor & Pump P 301	Leq,D	102.1	2	182.08	-56.2	4.9	-4.1	-1.1	-0.45	0.0	1.0	0.0	0.0	46.2
Motor & Pump P 302	Leq,D	97.1	2	180.35	-56.1	4.9	-4.1	-1.1	-0.44	0.0	0.3	0.0	0.0	40.6
Motor & Pump P 303	Leq,D	97.1	2	179.54	-56.1	4.9	-4.5	-0.9	-0.34	0.0	0.0	0.0	0.0	40.2
Motor & Pump P 305	Leq,D	97.5	2	178.82	-56.0	4.9	-6.8	-0.7	-0.32	0.0	0.5	0.0	0.0	39.0
Motor & Pump P 306	Leq,D	112.6	4	174.74	-55.8	4.6	-2.4	-2.4	-0.44	0.0	0.0	0.0	0.0	56.2
Motor & Pump P 307	Leq,D	102.1	2	184.59	-56.3	5.0	-6.1	-0.7	-0.43	0.0	0.0	0.0	0.0	43.5
Motor & Pump P 309	Leq,D	97.5	2	178.12	-56.0	4.9	-7.1	-0.6	-0.32	0.0	4.3	0.0	0.0	42.6
Motor & Pump P 312	Leq,D	101.5	2	197.05	-56.9	5.2	-3.2	-0.8	-0.50	0.0	0.7	0.0	0.0	46.0
Motor & Pump P 313	Leq,D	101.5	2	198.13	-56.9	5.2	-4.4	-0.8	-0.50	0.0	0.9	0.0	0.0	45.0
Motor & Pump P 315	Leq,D	102.9	2	201.95	-57.1	5.1	-16.3	-0.7	-0.17	0.0	7.0	0.0	0.0	40.8
Motor & Pump P 316	Leq,D	102.9	2	203.21	-57.2	5.1	-9.4	-0.7	-0.50	0.0	2.9	0.0	0.0	43.1

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Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 317	Leq,D	102.9	2	204.55	-57.2	5.0	-14.5	-0.6	-0.54	0.0	6.3	0.0	0.0	41.3
Motor & Pump P 318	Leq,D	100.2	1	201.09	-57.1	5.3	-12.9	-0.7	-0.16	0.0	4.2	0.0	0.0	38.9
Motor & Pump P 319	Leq,D	100.2	1	200.17	-57.0	5.3	-8.7	-0.8	-0.15	0.0	2.0	0.0	0.0	40.8
Motor & Pump P 327	Leq,D	111.2	3	170.84	-55.6	4.8	-3.8	-1.6	-0.14	0.0	2.0	0.0	0.0	56.9
Motor & Pump P 328	Leq,D	109.9	5	177.40	-56.0	4.6	-4.2	-1.0	-0.37	0.0	3.3	0.0	0.0	56.3
Motor & Pump P 329	Leq,D	110.2	5	176.08	-55.9	4.6	-3.1	-1.1	-0.41	0.0	2.8	0.0	0.0	57.1
Motor & Pump P 451	Leq,D	93.7		249.45	-58.9	5.1	-10.5	-1.2	-1.23	0.0	3.7	0.0	0.0	30.6
Motor & Pump P 453	Leq,D	93.7		259.21	-59.3	5.1	-6.6	-1.6	-1.33	0.0	0.3	0.0	0.0	30.3
Motor & Pump P 454	Leq,D	93.7		248.03	-58.9	5.1	-10.7	-1.2	-1.26	0.0	3.8	0.0	0.0	30.5
Motor & Pump P 457	Leq,D	93.7		260.23	-59.3	5.1	-6.7	-1.6	-1.29	0.0	0.3	0.0	0.0	30.2
Motor & Pump P 458	Leq,D	93.7		250.33	-59.0	5.1	-10.2	-1.2	-1.20	0.0	3.2	0.0	0.0	30.4
Motor & Pump P 459	Leq,D	93.7		247.39	-58.9	5.1	-10.5	-1.2	-1.22	0.0	0.2	0.0	0.0	27.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		243.94	-58.7	5.1	-10.5	-1.2	-0.26	0.0	0.0	0.0	0.0	30.6
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		243.04	-58.7	5.1	-12.6	-1.1	-0.26	0.0	0.0	0.0	0.0	28.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		235.26	-58.4	5.1	-13.9	-0.9	-0.39	0.0	1.0	0.0	0.0	27.9
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		234.79	-58.4	5.1	-9.8	-1.0	-0.34	0.0	0.4	0.0	0.0	31.3
Motor & Pump P 1601 A	Leq,D	96.3	2	267.95	-59.6	5.0	-4.4	-1.7	-1.01	0.0	0.1	0.0	0.0	34.7
Motor & Pump P 1601 B	Leq,D	96.3	2	269.30	-59.6	5.0	-3.9	-1.9	-0.82	0.0	0.1	0.0	0.0	35.2
Motor & Pump P 1602 A	Leq,D	96.3	2	270.43	-59.6	5.0	-4.0	-1.9	-0.70	0.0	0.1	0.0	0.0	35.2
Motor & Pump P 1602 B	Leq,D	96.5	2	271.74	-59.7	5.0	-3.9	-1.9	-0.57	0.0	0.2	0.0	0.0	35.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	251.54	-59.0	5.2	-12.0	-1.2	-0.43	0.0	0.0	0.0	0.0	29.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	249.00	-58.9	5.2	-12.4	-1.1	-0.85	0.0	0.0	0.0	0.0	28.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	247.77	-58.9	5.2	-11.3	-1.1	-0.85	0.0	0.0	0.0	0.0	29.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	242.74	-58.7	5.1	-13.9	-1.1	-0.26	0.0	0.0	0.0	0.0	27.9
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	241.80	-58.7	5.1	-12.3	-1.1	-0.37	0.0	0.0	0.0	0.0	29.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	251.25	-59.0	5.2	-6.9	-1.4	-0.73	0.0	0.0	0.0	0.0	33.4
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	249.22	-58.9	5.2	-6.2	-1.5	-0.77	0.0	0.0	0.0	0.0	34.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	245.71	-58.8	5.2	-4.2	-1.8	-0.39	0.0	0.0	0.0	0.0	36.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	247.28	-58.9	5.2	-5.1	-1.6	-0.52	0.0	0.0	0.0	0.0	35.5
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	209.88	-57.4	4.6	-7.5	-0.9	0.00	0.0	1.1	0.0	0.0	44.0
P-2 A/B	Leq,D	98.5		615.07	-66.8	5.8	-23.1	-2.1		0.0	3.7	0.0	0.0	16.0
P-50 A/B	Leq,D	98.1		571.38	-66.1	5.8	-6.0	-2.2	-2.34	0.0	0.0	0.0	0.0	27.2
P-51 A/B	Leq,D	98.1		573.42	-66.2	5.8	-24.1	-2.3	-0.23	0.0	0.0	0.0	0.0	11.1
P-060 A/B	Leq,D	98.1		566.22	-66.1	5.8	-5.7	-2.2	-1.88	0.0	0.0	0.0	0.0	28.0
P-63	Leq,D	98.5		592.84	-66.5	5.8	-17.9	-1.7	-2.26	0.0	0.0	0.0	0.0	16.0
P-70 A/B	Leq,D	98.1		568.49	-66.1	5.8	-23.8	-2.1	-1.52	0.0	0.0	0.0	0.0	10.4
P-73 A/B	Leq,D	98.5		611.14	-66.7	5.8	-23.5	-2.2		0.0	2.2	0.0	0.0	14.0
P-251 A/B	Leq,D	98.2		443.97	-63.9	5.7	-10.8	-1.4	-1.55	0.0	0.0	0.0	0.0	26.2
P-252 A/B	Leq,D	98.2		440.70	-63.9	5.7	-10.8	-1.4	-1.14	0.0	0.0	0.0	0.0	26.7
P-253	Leq,D	98.2		447.22	-64.0	5.7	-10.5	-1.4	-1.13	0.0	0.0	0.0	0.0	26.9
P-254 A/B	Leq,D	98.2		453.40	-64.1	5.7	-7.4	-1.5	-1.55	0.0	0.0	0.0	0.0	29.3
P-255 A/B	Leq,D	98.2		450.51	-64.1	5.7	-7.7	-1.5	-1.55	0.0	0.0	0.0	0.0	29.1
P-255 A/B	Leq,D	98.2		437.88	-63.8	5.7	-14.1	-1.3	-1.55	0.0	0.0	0.0	0.0	23.1
P-256 A/B	Leq,D	98.2		446.79	-64.0	5.7	-10.7	-1.4	-1.55	0.0	0.0	0.0	0.0	26.2
P-259 A/B	Leq,D	98.2		441.01	-63.9	5.7	-13.9	-1.3	-1.56	0.0	0.0	0.0	0.0	23.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-260	Leq,D	99.1		424.27	-63.5	5.7	-12.1	-1.3	-1.14	0.0	0.0	0.0	0.0	26.7
P-261 A/B	Leq,D	98.0		404.81	-63.1	5.7	-21.0	-1.3	-0.14	0.0	0.0	0.0	0.0	18.2
P-262 A/B	Leq,D	99.1		417.16	-63.4	5.7	-18.6	-1.2	-0.34	0.0	0.0	0.0	0.0	21.3
P-263 A/B	Leq,D	99.4		420.44	-63.5	5.7	-15.4	-1.2	-1.14	0.0	0.0	0.0	0.0	23.9
P-270 A/B	Leq,D	98.5		488.64	-64.8	5.8	-14.9	-1.4	-0.25	0.0	0.0	0.0	0.0	22.9
P-271 A/B	Leq,D	98.2		461.67	-64.3	5.7	-7.9	-1.6	-1.55	0.0	0.0	0.0	0.0	28.6
P-272 A/B	Leq,D	98.2		457.65	-64.2	5.7	-8.3	-1.5	-1.55	0.0	0.0	0.0	0.0	28.3
P-273 A/B	Leq,D	98.5		485.63	-64.7	5.8	-15.4	-1.4	-0.25	0.0	0.0	0.0	0.0	22.5
P-275 A/B/C	Leq,D	98.2		456.76	-64.2	5.7	-17.5	-1.3	-1.12	0.0	0.0	0.0	0.0	19.8
P-305	Leq,D	99.3		532.67	-65.5	5.8	-10.5	-1.7	-2.20	0.0	0.0	0.0	0.0	25.2
P-306	Leq,D	100.8		540.79	-65.7	5.8	-6.1	-2.1	-2.43	0.0	0.0	0.0	0.0	30.3
P-309	Leq,D	99.3		534.59	-65.6	5.8	-10.3	-1.7	-2.26	0.0	0.0	0.0	0.0	25.2
P-328	Leq,D	100.8		545.62	-65.7	5.8	-4.8	-2.4	-2.57	0.0	0.0	0.0	0.0	31.1
P-329	Leq,D	100.8		543.19	-65.7	5.8	-4.8	-2.4	-2.49	0.0	0.0	0.0	0.0	31.3
P-353	Leq,D	98.5		526.28	-65.4	5.6	-4.1	-2.1	-2.22	0.0	0.0	0.0	0.0	30.3
P-358 A/B	Leq,D	99.4		529.63	-65.5	5.8	-13.8	-1.5	-1.11	0.0	0.0	0.0	0.0	23.3
P-359 A/B	Leq,D	99.4		532.22	-65.5	5.8	-20.6	-1.6	-2.05	0.0	0.0	0.0	0.0	15.4
P-360 A/B	Leq,D	99.4		537.25	-65.6	5.8	-15.7	-1.5	-2.40	0.0	0.0	0.0	0.0	20.0
P-361A	Leq,D	98.1		555.86	-65.9	5.6	-6.6	-1.8	-0.23	0.0	0.0	0.0	0.0	29.2
P-371 A/B	Leq,D	98.0		307.08	-60.7	5.3	-14.1	-0.9	-0.77	0.0	0.0	0.0	0.0	26.8
P-373 A/B	Leq,D	98.0		322.64	-61.2	5.4	-14.7	-0.9		0.0	0.0	0.0	0.0	26.6
P-374 A/B	Leq,D	98.0		319.38	-61.1	5.4	-11.6	-1.0		0.0	0.0	0.0	0.0	29.7
P-375 A/B	Leq,D	98.0		311.97	-60.9	5.3	-14.9	-1.0	-0.76	0.0	0.0	0.0	0.0	25.8
P-376	Leq,D	98.0		317.32	-61.0	5.3	-16.3	-1.0		0.0	0.0	0.0	0.0	25.0
P-376 A/B	Leq,D	98.0		326.09	-61.3	5.4	-15.5	-0.9		0.0	0.0	0.0	0.0	25.7
P-377	Leq,D	98.0		315.37	-61.0	5.3	-16.1	-1.0		0.0	0.0	0.0	0.0	25.4
P-1101 A	Leq,D	98.9		597.56	-66.5	5.7	-17.0	-1.7	-0.39	0.0	0.0	0.0	0.0	19.0
P-1103	Leq,D	98.9		596.23	-66.5	5.7	-17.1	-1.7	-0.41	0.0	0.0	0.0	0.0	18.9
P-1105 A/B/C	Leq,D	98.9		602.42	-66.6	5.7	-15.2	-1.7	-0.35	0.0	0.0	0.0	0.0	20.7
P-1800	Leq,D	98.9		645.87	-67.2	5.8	-20.8	-1.8	-0.03	0.0	2.8	0.0	0.0	17.7
P-1801	Leq,D	98.9		687.18	-67.7	5.8	-24.9	-2.8		0.0	14.5	0.0	0.0	23.7
P-1802	Leq,D	98.9		685.92	-67.7	5.8	-24.9	-2.8		0.0	14.5	0.0	0.0	23.8
P-1803	Leq,D	99.1		560.65	-66.0	5.8	-24.5	-2.2	-0.03	0.0	0.0	0.0	0.0	12.2
P-1804	Leq,D	99.1		579.31	-66.3	5.8	-4.9	-2.4	-1.22	0.0	0.0	0.0	0.0	30.0
P-1805	Leq,D	99.1		582.13	-66.3	5.8	-9.2	-1.9	-0.39	0.0	0.0	0.0	0.0	27.1
P-1806	Leq,D	99.1		538.89	-65.6	5.8	-7.4	-1.8		0.0	0.0	0.0	0.0	30.1
P-1809 A	Leq,D	98.9		653.81	-67.3	5.8	-16.8	-1.8		0.0	3.4	0.0	0.0	22.2
P-1810 A/B/C	Leq,D	99.0		579.27	-66.2	5.8	-24.8	-2.4		0.0	3.6	0.0	0.0	14.9
P-1811 A/B	Leq,D	99.1		545.10	-65.7	5.8	-3.8	-2.2	-1.02	0.0	0.0	0.0	0.0	32.2
P-1811 A/B	Leq,D	99.1		585.66	-66.3	5.8	-9.1	-1.9	-0.31	0.0	0.0	0.0	0.0	27.3
P-1847 A/B	Leq,D	99.4		526.83	-65.4	5.8	-18.6	-1.5		0.0	0.0	0.0	0.0	19.7
P-1849 A/B	Leq,D	99.4		533.10	-65.5	5.8	-18.7	-1.5		0.0	0.0	0.0	0.0	19.5
P-1853	Leq,D	99.1		486.58	-64.7	5.8	-16.0	-1.3	-0.32	0.0	0.0	0.0	0.0	22.5
Piping Furnace Tanks	Leq,D	87.1	72	357.30	-62.1	4.0	-11.6	-6.4	-0.16	0.0	1.3	0.0	0.0	12.2
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	352.99	-61.9	4.2	-8.0	-7.2	-0.43	0.0	0.5	0.0	0.0	25.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	314.64	-60.9	4.6	-20.5	-2.0	-0.67	0.0	1.1	0.0	0.0	36.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	317.58	-61.0	4.6	-21.4	-4.6	-0.67	0.0	0.4	0.0	0.0	32.5
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	620.23	-66.8	4.8	-23.5	-2.3		0.0	0.2	0.0	0.0	22.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	591.32	-66.4	4.7	-9.0	-2.0		0.0	0.3	0.0	0.0	38.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	567.92	-66.1	4.7	-11.5	-1.8		0.0	0.0	0.0	0.0	29.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	604.73	-66.6	4.7	-20.6	-2.0		0.0	0.3	0.0	0.0	27.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	573.74	-66.2	4.7	-19.0	-1.8		0.0	0.1	0.0	0.0	21.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	570.87	-66.1	4.7	-14.8	-1.7		0.0	0.5	0.0	0.0	26.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	566.55	-66.1	4.7	-12.7	-1.6		0.0	0.0	0.0	0.0	31.0
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	580.66	-66.3	4.7	-16.2	-1.8		0.0	0.1	0.0	0.0	26.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	595.84	-66.5	3.6	-10.0	-2.1		0.0	0.2	0.0	0.0	38.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	331.90	-61.4	3.2	-3.1	-2.9	-0.02	0.0	0.3	0.0	0.0	16.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	312.08	-60.9	4.6	-20.1	-2.0	-0.72	0.0	1.2	0.0	0.0	38.6
Reformer-Burner Reformer East	Leq,D	97.3	269	364.65	-62.2	3.5	-4.1	-1.9		0.0	0.0	0.0	0.0	35.6
Reformer-Burner Reformer North	Leq,D	95.9	192	358.14	-62.1	3.5	-5.4	-1.8		0.0	0.0	0.0	0.0	30.0
Reformer-Burner Reformer South	Leq,D	95.8	191	376.04	-62.5	3.4	-21.9	-1.7		0.0	2.3	0.0	0.0	18.5
Reformer-Burner Reformer West	Leq,D	97.3	268	369.26	-62.3	3.1	-18.2	-1.4		0.0	1.0	0.0	0.0	22.5
RFG A from battery to process	Leq,D	99.4	87	357.81	-62.1	4.2	-9.2	-6.9	-0.53	0.0	0.5	0.0	0.0	25.4
RFG A from battery to process w NC	Leq,D	115.2	42	316.44	-61.0	4.6	-23.6	-5.7	-0.53	0.0	1.8	0.0	0.0	30.7
Stack Noise	Leq,D	108.4		404.23	-63.1	3.0	-1.5	-2.9		-7.1	0.0	0.0	0.0	36.7
Steam Turbine-Facade 01	Leq,D	99.6	29	316.57	-61.0	5.1	-18.5	-2.6	-0.45	0.0	0.0	0.0	0.0	22.1
Steam Turbine-Facade 02	Leq,D	96.2	13	319.31	-61.1	5.1	-22.4	-3.1	-0.71	0.0	0.0	0.0	0.0	14.1
Steam Turbine-Facade 03	Leq,D	99.6	29	314.87	-61.0	5.1	-17.8	-2.4	-0.61	0.0	0.0	0.0	0.0	22.9
Steam Turbine-Facade 04	Leq,D	96.2	13	312.17	-60.9	5.1	-10.2	-3.1	-0.26	0.0	0.0	0.0	0.0	26.9
Steam Turbine-Roof 01	Leq,D	99.7	30	315.73	-61.0	4.6	-17.5	-2.7	-0.72	0.0	0.1	0.0	0.0	22.5
Tank Farm Pump 1	Leq,D	99.0	3	508.04	-65.1	5.6	-21.1	-2.1		0.0	0.0	0.0	0.0	16.3
Tank Farm Pump 2	Leq,D	99.0	3	528.46	-65.5	5.6	-19.9	-2.1		0.0	1.9	0.0	0.0	19.1
Tank Farm Pump 3	Leq,D	99.0	3	534.24	-65.5	5.6	-19.4	-2.1		0.0	1.9	0.0	0.0	19.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	150.92	-54.6	2.8	-4.7	-1.9	-0.01	0.0	0.8	-11.8	0.0	43.0
XF-1502 Splitter Area 1	Leq,D	104.5		249.14	-58.9	3.0	-0.6	-1.9	-0.83	-4.5	0.0	0.0	0.0	40.8
XF-1502 Splitter Area 2	Leq,D	104.5		250.98	-59.0	3.0	-4.0	-2.0	-0.84	-4.2	0.0	0.0	0.0	37.5
XF-1504 Splitter Area 1	Leq,D	104.5		253.00	-59.1	3.0	-3.5	-1.4	-0.09	-3.9	0.0	0.0	0.0	39.6
XF-1504 Splitter Area 2	Leq,D	104.5		254.81	-59.1	3.0	-1.1	-2.1	-0.93	-4.5	0.0	0.0	0.0	39.8
XF 251, 250, 271, 270	Leq,D	101.1	128	458.83	-64.2	4.2	-3.3	-1.1	-0.39	-2.3	0.0	0.0	0.0	34.0
XF 260, 261A, 261 B	Leq,D	99.9	97	416.47	-63.4	4.0	-11.9	-0.6	0.00	-1.5	0.0	0.0	0.0	26.5
XF 304, XF 321	Leq,D	110.5	56	177.63	-56.0	3.0	-5.2	-0.5	-0.13	-2.3	0.2	0.0	0.0	49.5
XF 313, XF 314	Leq,D	113.0	18	163.70	-55.3	3.0	-4.3	-0.6		-3.6	0.2	0.0	0.0	52.4
XF 335-1, XF 335-2	Leq,D	113.4	54	171.68	-55.7	3.0	-3.3	-0.9	-0.23	-3.1	0.3	0.0	0.0	53.5
XF 353A/B	Leq,D	95.4	35	540.11	-65.6	4.5	-6.1	-0.9	-0.01	-1.9	0.0	0.0	0.0	25.3
XF 353A/B	Leq,D	95.4	35	518.35	-65.3	4.4	-6.4	-0.8		-1.8	0.0	0.0	0.0	25.5
XF 354A/B	Leq,D	95.4	35	528.60	-65.5	4.4	-2.2	-1.6	-0.42	-2.6	0.0	0.0	0.0	27.5
XF 503	Leq,D	113.0	21	222.23	-57.9	3.0	-4.1	-2.4	-0.76	-3.7	0.0	0.0	0.0	47.2
XF - 1601	Leq,D	96.6		270.82	-59.6	3.0	-0.3	-0.9		-2.7	0.0	0.0	0.0	36.0
XF - 1602	Leq,D	96.6		276.00	-59.8	3.0	-2.2	-0.7		-2.1	0.0	0.0	0.0	34.7
XF Module 1510	Leq,D	108.3		247.87	-58.9	3.0	-4.2	-1.3	-0.05	-3.8	0.0	0.0	0.0	43.1
XF Module 1519	Leq,D	109.0		245.13	-58.8	3.0	-3.4	-2.1	-0.71	-4.3	0.0	0.0	0.0	42.7
xxxx xxxx xxxx xxxx	Leq,D		228								7.1			9.4
xxxx xxxx xxxx xxxx	Leq,D		520								7.2			27.3
xxxx xxxx xxxx xxxx	Leq,D		1341								5.2			28.1
xxxx xxxx xxxx xxxx	Leq,D		450								5.9			14.4
Receiver W-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 60.4 dB(A)		Ld 7-19 dB(A)		Leq,N 60.4 dB(A)		Le 19-22 dB(A)		CNEL 67.0 dB(A)		Lmax day hr dB(A)	Lc
ID Fan Motor	Leq,D	104.4	2	437.82	-63.8	5.3	-20.0	-1.8		0.0	1.3	0.0	0.0	25.3
18-1855 A/B	Leq,D	98.8		484.85	-64.7	5.6	-19.8	-1.4		0.0	0.0	0.0	0.0	18.5
18-1856 A/B	Leq,D	98.8		490.30	-64.8	5.6	-18.0	-1.4		0.0	0.0	0.0	0.0	20.3
18-1857 A/B	Leq,D	98.8		479.59	-64.6	5.6	-13.4	-1.4		0.0	0.1	0.0	0.0	25.0
18-1858 A/B	Leq,D	98.8		476.05	-64.5	5.5	-12.7	-1.4	-0.04	0.0	0.1	0.0	0.0	25.7
18-PK 1802 Air Compressor Package	Leq,D	103.1		503.90	-65.0	5.8	-12.2	-0.7		0.0	0.1	0.0	0.0	31.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	387.42	-62.8	5.3	-6.7	-2.7	-0.30	0.0	0.2	-2.7	0.0	39.3
Air Compressor C 1	Leq,D	110.0	5	244.93	-58.8	5.3	-20.7	-0.6	-0.01	0.0	5.2	0.0	0.0	40.3
Air Compressor Pump	Leq,D	100.3		437.29	-63.8	5.5	-19.4	-2.0	-0.59	0.0	0.0	0.0	0.0	20.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Blower F 401	Leq,D	113.0		341.05	-61.6	5.2	-11.3	-0.4	-1.36	0.0	0.0	0.0	0.0	43.4
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	626.37	-66.9	5.6	-15.8	-1.1	-0.25	0.0	0.0	0.0	0.0	20.1
Boiler Feed Water Pump A	Leq,D	97.1	3	475.15	-64.5	5.5	-21.2	-1.5		0.0	1.6	0.0	0.0	16.9
Boiler Feed Water Pump B	Leq,D	97.1	3	477.30	-64.6	5.5	-20.8	-1.5		0.0	1.8	0.0	0.0	17.5
C370 A Motor	Leq,D	103.6	3	406.49	-63.2	4.9	-4.6	-2.4	-0.38	0.0	0.1	0.0	0.0	38.1
C370 B Motor	Leq,D	108.6	3	414.54	-63.3	5.0	-4.7	-2.4	-0.29	0.0	0.1	0.0	0.0	42.9
C370A	Leq,D	103.8	5	403.66	-63.1	5.0	-5.8	-2.1	-0.37	0.0	0.1	0.0	0.0	37.4
C370B	Leq,D	103.8	5	411.76	-63.3	5.0	-6.0	-2.1	-0.19	0.0	0.2	0.0	0.0	37.5
C-270 A	Leq,D	106.3	6	563.80	-66.0	5.3	-4.7	-3.0	-0.71	0.0	0.1	0.0	0.0	37.3
C-270 B	Leq,D	106.3	6	560.22	-66.0	5.3	-4.6	-3.0	-0.97	0.0	0.1	0.0	0.0	37.2
C-270 C	Leq,D	106.3	6	556.70	-65.9	5.3	-5.5	-2.9	-1.08	0.0	0.2	0.0	0.0	36.4
C-301 Compressor	Leq,D	106.8	3	559.66	-66.0	5.3	-7.6	-2.3	-0.20	0.0	0.3	0.0	0.0	36.4
C-301 Motor	Leq,D	106.8	4	556.71	-65.9	5.3	-5.8	-3.7	-0.21	0.0	0.6	0.0	0.0	37.2
C-351 Compressor	Leq,D	106.8	4	573.66	-66.2	5.3	-5.0	-3.0	-0.72	0.0	0.2	0.0	0.0	37.4
C-351 Motor	Leq,D	106.8	5	576.79	-66.2	5.2	-4.7	-4.2	-0.77	0.0	0.6	0.0	0.0	36.6
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	368.03	-62.3	5.4	-5.5	-0.8	-0.26	0.0	0.0	-33.5	0.0	37.8
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	290.36	-60.3	4.7	-17.4	-0.5	-0.16	-7.0	0.0	0.0	0.0	24.1
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	288.06	-60.2	4.6	-16.8	-0.8	-0.45	0.0	0.0	0.0	0.0	27.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	279.63	-59.9	4.6	-2.5	-1.6	-0.09	1.2	0.2	0.0	0.0	48.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	287.65	-60.2	4.6	-16.8	-0.6		-7.8	0.0	0.0	0.0	30.0
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	289.31	-60.2	4.6	-19.1	-0.6	-0.29	-7.8	0.0	0.0	0.0	20.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	278.49	-59.9	4.6	-3.5	-2.0		3.4	0.7	0.0	0.0	43.7
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	331.35	-61.4	4.9	-20.1	-0.9	-0.57	-7.6	3.5	0.0	0.0	15.6
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	323.24	-61.2	4.8	-8.9	-1.0	-0.81	2.7	0.1	0.0	0.0	33.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	349.22	-61.9	4.6	-21.1	-1.1	-0.38	-7.7	20.9	0.0	0.0	34.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	336.75	-61.5	4.7	-7.5	-1.3	-0.62	2.6	0.0	0.0	0.0	37.0
Cooling Tower M 512	Leq,D	95.7		332.10	-61.4	5.3	-21.0	-1.3	-0.77	0.0	1.5	0.0	0.0	18.1
Cooling Tower M 513	Leq,D	95.7		331.27	-61.4	5.3	-21.0	-1.3	-0.81	0.0	0.1	0.0	0.0	16.6
Cooling Tower M 514	Leq,D	95.7		333.19	-61.4	5.3	-21.2	-1.3	-0.74	0.0	1.4	0.0	0.0	17.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	452.25	-64.1	4.3	-9.6	-0.8		-1.9	0.0	0.0	0.0	23.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	423.47	-63.5	5.2	-13.9	-0.1		0.0	0.0	0.0	0.0	23.0
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	421.24	-63.5	5.2	-10.0	-0.1		0.0	0.6	0.0	0.0	25.3
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	422.36	-63.5	4.7	-6.9	-0.1		0.0	0.0	0.0	0.0	27.7
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	423.48	-63.5	5.1	-14.0	-0.1		0.0	0.0	0.0	0.0	20.7
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	421.25	-63.5	5.2	-7.5	-0.1		0.0	0.1	0.0	0.0	29.5
FD Motor	Leq,D	103.3	2	424.45	-63.5	5.3	-23.7	-2.8		0.0	1.3	0.0	0.0	19.8
Feed Compressor -B Motor	Leq,D	103.8	5	445.76	-64.0	5.0	-9.6	-2.1		0.0	1.2	0.0	0.0	34.4
Feed Compressor-A Compressor	Leq,D	104.0	5	431.25	-63.7	5.1	-7.0	-2.0	-0.08	0.0	0.2	0.0	0.0	36.5
Feed Compressor-A Motor	Leq,D	103.8	6	434.75	-63.8	5.0	-8.7	-2.4	-0.19	0.0	0.1	0.0	0.0	33.8
Feed Compressor-B Compressor	Leq,D	104.0	7	442.01	-63.9	5.1	-11.4	-1.5		0.0	0.5	0.0	0.0	32.9
H2S Compressor 18-C-271	Leq,D	105.3	6	272.26	-59.7	4.9	-15.6	-0.8	-0.43	0.0	1.7	0.0	0.0	35.4
Heater # 5-Heater	Leq,D	91.1	13	622.48	-66.9	5.6	-19.9	-1.3	-0.30	0.0	0.0	0.0	0.0	11.3
Heater # 5-Heater	Leq,D	91.1	13	618.83	-66.8	5.6	-18.9	-1.3	-0.15	0.0	0.0	0.0	0.0	12.5
Heater # 5-Heater	Leq,D	91.1	13	626.07	-66.9	5.6	-20.0	-1.3	-0.44	0.0	3.4	0.0	0.0	14.4
Hydro Heater H-402	Leq,D	98.1		315.33	-61.0	5.3	-8.5	-0.5	-0.43	0.0	0.0	0.0	0.0	33.0
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	439.74	-63.9	5.3	-13.2	-0.1		0.0	0.1	0.0	0.0	15.2
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	441.01	-63.9	5.3	-14.6	-0.1		0.0	0.0	0.0	0.0	14.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - North	Leq,D	92.2	8	438.31	-63.8	5.3	-9.5	-0.1		0.0	0.0	0.0	0.0	24.1
ID Fan-ID Fan - North 2	Leq,D	91.4	7	440.95	-63.9	5.3	-9.6	-0.1		0.0	0.0	0.0	0.0	23.2
ID Fan-ID Fan - South	Leq,D	92.3	9	440.02	-63.9	5.3	-15.3	-0.1		0.0	0.0	0.0	0.0	18.4
ID Fan-ID Fan - South 2	Leq,D	91.4	7	441.76	-63.9	5.3	-14.0	-0.1		0.0	0.0	0.0	0.0	18.7
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	439.76	-63.9	5.0	-9.2	-0.1		0.0	0.0	0.0	0.0	25.9
Motor & Pump P 56A/B	Leq,D	93.7		297.75	-60.5	5.2	-8.8	-1.4	-0.79	0.0	0.1	0.0	0.0	27.6
Motor & Pump P 120/121	Leq,D	96.2	2	254.77	-59.1	5.2	-13.3	-0.8	-0.33	0.0	3.4	0.0	0.0	31.3
Motor & Pump P 211/212	Leq,D	93.7		307.56	-60.8	5.3	-16.5	-1.4	-0.64	0.0	0.0	0.0	0.0	19.8
Motor & Pump P 215/214	Leq,D	94.6		303.04	-60.6	5.4	-11.0	-1.5	-0.72	0.0	0.0	0.0	0.0	26.1
Motor & Pump P 216	Leq,D	98.3		303.79	-60.6	5.2	-17.3	-1.2	-0.26	0.0	0.0	0.0	0.0	24.1
Motor & Pump P 217/218	Leq,D	93.7		305.81	-60.7	5.5	-15.5	-1.4	-0.67	0.0	0.0	0.0	0.0	21.0
Motor & Pump P 300	Leq,D	97.1	2	245.38	-58.8	5.2	-12.1	-0.7	-0.64	0.0	0.1	0.0	0.0	30.1
Motor & Pump P 301	Leq,D	102.1	2	246.69	-58.8	5.2	-15.0	-0.8	-0.52	0.0	1.2	0.0	0.0	33.4
Motor & Pump P 302	Leq,D	97.1	2	243.99	-58.7	5.2	-12.4	-0.7	-0.61	0.0	0.8	0.0	0.0	30.7
Motor & Pump P 303	Leq,D	97.1	2	242.78	-58.7	5.2	-11.7	-0.7	-0.57	0.0	3.4	0.0	0.0	33.9
Motor & Pump P 305	Leq,D	97.5	2	241.63	-58.7	5.2	-11.9	-0.7	-0.53	0.0	5.0	0.0	0.0	35.8
Motor & Pump P 306	Leq,D	112.6	4	234.79	-58.4	5.0	-10.1	-1.0	-0.31	0.0	1.9	0.0	0.0	49.7
Motor & Pump P 307	Leq,D	102.1	2	250.50	-59.0	5.2	-16.0	-0.8	-0.44	0.0	7.6	0.0	0.0	38.8
Motor & Pump P 309	Leq,D	97.5	2	240.49	-58.6	5.1	-12.2	-0.7	-0.49	0.0	6.5	0.0	0.0	37.2
Motor & Pump P 312	Leq,D	101.5	2	268.14	-59.6	5.4	-3.4	-1.1	-0.68	0.0	1.5	0.0	0.0	43.7
Motor & Pump P 313	Leq,D	101.5	2	269.60	-59.6	5.4	-4.2	-1.0	-0.69	0.0	1.8	0.0	0.0	43.2
Motor & Pump P 315	Leq,D	102.9	2	274.78	-59.8	5.3	-3.2	-1.2	-0.69	0.0	1.0	0.0	0.0	44.3
Motor & Pump P 316	Leq,D	102.9	2	276.43	-59.8	5.3	-3.9	-1.3	-0.71	0.0	0.2	0.0	0.0	42.7
Motor & Pump P 317	Leq,D	102.9	2	278.14	-59.9	5.3	-4.1	-1.1	-0.65	0.0	0.2	0.0	0.0	42.6
Motor & Pump P 318	Leq,D	100.2	1	273.42	-59.7	5.5	-3.9	-1.0	-0.70	0.0	1.8	0.0	0.0	42.2
Motor & Pump P 319	Leq,D	100.2	1	272.20	-59.7	5.5	-4.4	-0.9	-0.70	0.0	2.0	0.0	0.0	41.9
Motor & Pump P 327	Leq,D	111.2	3	228.45	-58.2	5.1	-17.4	-1.1	-0.06	0.0	5.2	0.0	0.0	44.8
Motor & Pump P 328	Leq,D	109.9	5	239.22	-58.6	5.0	-11.0	-0.7	-0.42	0.0	4.4	0.0	0.0	48.7
Motor & Pump P 329	Leq,D	110.2	5	237.03	-58.5	5.0	-8.2	-0.9	-0.31	0.0	0.6	0.0	0.0	47.8
Motor & Pump P 451	Leq,D	93.7		321.57	-61.1	5.3	-13.3	-1.3	-0.54	0.0	0.0	0.0	0.0	22.7
Motor & Pump P 453	Leq,D	93.7		332.70	-61.4	5.3	-9.4	-1.6	-0.27	0.0	0.0	0.0	0.0	26.3
Motor & Pump P 454	Leq,D	93.7		320.35	-61.1	5.3	-12.1	-1.3	-0.58	0.0	0.0	0.0	0.0	23.8
Motor & Pump P 457	Leq,D	93.7		333.95	-61.5	5.3	-3.8	-2.1	-1.42	0.0	0.1	0.0	0.0	30.2
Motor & Pump P 458	Leq,D	93.7		322.26	-61.2	5.3	-13.9	-1.3	-0.50	0.0	0.9	0.0	0.0	22.9
Motor & Pump P 459	Leq,D	93.7		319.55	-61.1	5.3	-13.1	-1.3	-0.55	0.0	0.0	0.0	0.0	22.9
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		308.08	-60.8	5.3	-11.8	-1.3	-0.60	0.0	0.1	0.0	0.0	27.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		306.82	-60.7	5.3	-16.9	-1.3	-0.55	0.0	0.1	0.0	0.0	22.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		289.37	-60.2	5.3	-6.5	-1.9	-0.11	0.0	0.3	0.0	0.0	32.2
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		288.59	-60.2	5.3	-6.6	-1.9	-0.07	0.0	0.3	0.0	0.0	32.3
Motor & Pump P 1601 A	Leq,D	96.3	2	327.11	-61.3	5.2	-12.6	-1.5	-0.39	0.0	3.5	0.0	0.0	29.2
Motor & Pump P 1601 B	Leq,D	96.3	2	328.22	-61.3	5.2	-8.8	-1.6	-0.41	0.0	0.1	0.0	0.0	29.6
Motor & Pump P 1602 A	Leq,D	96.3	2	329.20	-61.3	5.2	-11.4	-1.6	-0.37	0.0	0.1	0.0	0.0	26.9
Motor & Pump P 1602 B	Leq,D	96.5	2	330.27	-61.4	5.2	-19.3	-1.6		0.0	0.6	0.0	0.0	20.0
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	313.91	-60.9	5.4	-16.4	-1.3	-0.54	0.0	0.3	0.0	0.0	23.1
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	310.31	-60.8	5.4	-13.6	-1.6	-0.49	0.0	0.1	0.0	0.0	25.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	308.54	-60.8	5.4	-14.2	-1.5	-0.49	0.0	0.1	0.0	0.0	25.0
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	306.10	-60.7	5.3	-17.6	-1.3	-0.50	0.0	0.2	0.0	0.0	22.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	304.77	-60.7	5.3	-18.8	-1.3	-0.47	0.0	0.2	0.0	0.0	20.9
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	309.66	-60.8	5.4	-13.1	-1.3	-0.39	0.0	0.1	0.0	0.0	26.2

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	308.02	-60.8	5.4	-15.2	-1.4	-0.40	0.0	0.1	0.0	0.0	24.0
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	305.24	-60.7	5.3	-8.5	-2.0	-0.35	0.0	0.0	0.0	0.0	30.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	306.50	-60.7	5.4	-9.5	-1.9	-0.35	0.0	0.1	0.0	0.0	29.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	262.82	-59.4	4.9	-6.0	-1.4		0.0	2.7	0.0	0.0	44.9
P-2 A/B	Leq,D	98.5		669.95	-67.5	5.8	-23.3	-2.2		0.0	2.6	0.0	0.0	13.9
P-50 A/B	Leq,D	98.1		626.48	-66.9	5.8	-23.6	-2.2	-0.90	0.0	3.5	0.0	0.0	13.8
P-51 A/B	Leq,D	98.1		629.00	-67.0	5.8	-24.4	-2.5	-0.23	0.0	0.1	0.0	0.0	9.9
P-060 A/B	Leq,D	98.1		620.11	-66.8	5.8	-17.5	-1.5	-0.63	0.0	1.0	0.0	0.0	18.4
P-63	Leq,D	98.5		650.95	-67.3	5.8	-12.7	-1.9	-1.66	0.0	0.0	0.0	0.0	20.8
P-70 A/B	Leq,D	98.1		622.92	-66.9	5.8	-24.0	-2.3	-0.83	0.0	0.1	0.0	0.0	10.0
P-73 A/B	Leq,D	98.5		666.34	-67.5	5.8	-23.9	-2.5		0.0	2.5	0.0	0.0	12.9
P-251 A/B	Leq,D	98.2		508.59	-65.1	5.8	-12.5	-1.5	-1.29	0.0	0.0	0.0	0.0	23.6
P-252 A/B	Leq,D	98.2		503.62	-65.0	5.8	-12.5	-1.5	-0.72	0.0	0.0	0.0	0.0	24.2
P-253	Leq,D	98.2		509.32	-65.1	5.8	-14.7	-1.3	-0.30	0.0	0.0	0.0	0.0	22.5
P-254 A/B	Leq,D	98.2		516.81	-65.3	5.8	-13.3	-1.5	-1.10	0.0	0.0	0.0	0.0	22.8
P-255 A/B	Leq,D	98.2		514.29	-65.2	5.8	-10.9	-1.6	-1.15	0.0	0.0	0.0	0.0	25.1
P-255 A/B	Leq,D	98.2		503.27	-65.0	5.8	-12.4	-1.5	-1.39	0.0	0.0	0.0	0.0	23.6
P-256 A/B	Leq,D	98.2		511.03	-65.2	5.8	-13.9	-1.5	-0.64	0.0	0.0	0.0	0.0	22.8
P-259 A/B	Leq,D	98.2		506.01	-65.1	5.8	-8.9	-1.7	-1.34	0.0	0.0	0.0	0.0	27.0
P-260	Leq,D	99.1		489.29	-64.8	5.8	-14.2	-1.5	-1.05	0.0	0.0	0.0	0.0	23.4
P-261 A/B	Leq,D	98.0		472.55	-64.5	5.8	-14.6	-1.4	-0.76	0.0	0.0	0.0	0.0	22.6
P-262 A/B	Leq,D	99.1		483.13	-64.7	5.8	-13.4	-1.5	-0.95	0.0	0.0	0.0	0.0	24.4
P-263 A/B	Leq,D	99.4		485.93	-64.7	5.8	-21.1	-1.4	-0.28	0.0	0.1	0.0	0.0	17.7
P-270 A/B	Leq,D	98.5		547.58	-65.8	5.8	-6.3	-2.1	-0.24	0.0	0.1	0.0	0.0	30.0
P-271 A/B	Leq,D	98.2		524.07	-65.4	5.8	-13.9	-1.4	-0.66	0.0	0.0	0.0	0.0	22.7
P-272 A/B	Leq,D	98.2		520.54	-65.3	5.8	-9.3	-1.7	-1.06	0.0	0.0	0.0	0.0	26.6
P-273 A/B	Leq,D	98.5		544.90	-65.7	5.8	-6.3	-2.1	-0.22	0.0	0.1	0.0	0.0	30.1
P-275 A/B/C	Leq,D	98.2		517.64	-65.3	5.8	-6.2	-2.0	-0.69	0.0	0.0	0.0	0.0	29.9
P-305	Leq,D	99.3		596.94	-66.5	5.8	-5.8	-2.2	-1.20	0.0	0.0	0.0	0.0	29.4
P-306	Leq,D	100.8		604.21	-66.6	5.8	-13.3	-1.6	-0.74	0.0	0.1	0.0	0.0	24.4
P-309	Leq,D	99.3		598.64	-66.5	5.8	-5.7	-2.3	-1.27	0.0	0.0	0.0	0.0	29.4
P-328	Leq,D	100.8		608.57	-66.7	5.8	-18.7	-1.7	-1.00	0.0	0.2	0.0	0.0	18.7
P-329	Leq,D	100.8		606.36	-66.6	5.8	-18.8	-1.7	-0.97	0.0	0.2	0.0	0.0	18.7
P-353	Leq,D	98.5		588.87	-66.4	5.6	-10.7	-1.8	-1.12	0.0	0.0	0.0	0.0	24.1
P-358 A/B	Leq,D	99.4		587.75	-66.4	5.8	-13.6	-1.7	-1.04	0.0	0.0	0.0	0.0	22.5
P-359 A/B	Leq,D	99.4		590.89	-66.4	5.8	-5.5	-2.3	-1.16	0.0	0.1	0.0	0.0	29.9
P-360 A/B	Leq,D	99.4		596.98	-66.5	5.8	-16.0	-1.7	-1.23	0.0	0.0	0.0	0.0	19.7
P-361A	Leq,D	98.1		607.26	-66.7	5.7	-16.4	-1.5	-0.26	0.0	0.8	0.0	0.0	19.8
P-371 A/B	Leq,D	98.0		371.30	-62.4	5.4	-17.7	-1.1	-0.65	0.0	0.2	0.0	0.0	21.8
P-373 A/B	Leq,D	98.0		383.91	-62.7	5.5	-16.7	-1.1	-0.49	0.0	0.0	0.0	0.0	22.5
P-374 A/B	Leq,D	98.0		381.19	-62.6	5.5	-18.2	-1.1	-0.58	0.0	0.0	0.0	0.0	21.0
P-375 A/B	Leq,D	98.0		375.00	-62.5	5.4	-18.6	-1.1	-0.76	0.0	0.0	0.0	0.0	20.5
P-376	Leq,D	98.0		379.49	-62.6	5.5	-18.3	-1.1	-0.64	0.0	0.0	0.0	0.0	20.8
P-376 A/B	Leq,D	98.0		386.77	-62.7	5.5	-6.2	-1.4	-0.42	0.0	0.0	0.0	0.0	32.7
P-377	Leq,D	98.0		377.84	-62.5	5.5	-18.7	-1.1	-0.69	0.0	0.0	0.0	0.0	20.5
P-1101 A	Leq,D	98.9		650.95	-67.3	5.7	-20.4	-1.9		0.0	0.0	0.0	0.0	15.1
P-1103	Leq,D	98.9		649.73	-67.2	5.7	-21.6	-2.1		0.0	0.0	0.0	0.0	13.7
P-1105 A/B/C	Leq,D	98.9		655.39	-67.3	5.7	-19.5	-1.8		0.0	0.0	0.0	0.0	15.9
P-1800	Leq,D	98.9		701.59	-67.9	5.8	-17.7	-1.9		0.0	4.2	0.0	0.0	21.4
P-1801	Leq,D	98.9		739.27	-68.4	5.8	-24.9	-3.0		0.0	3.5	0.0	0.0	12.0
P-1802	Leq,D	98.9		737.75	-68.4	5.8	-24.9	-3.0		0.0	0.3	0.0	0.0	8.7
P-1803	Leq,D	99.1		609.79	-66.7	5.8	-24.6	-2.4		0.0	3.2	0.0	0.0	14.4
P-1804	Leq,D	99.1		629.42	-67.0	5.8	-22.4	-1.9	-0.02	0.0	0.3	0.0	0.0	13.9
P-1805	Leq,D	99.1		632.01	-67.0	5.8	-22.4	-1.9		0.0	0.2	0.0	0.0	13.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1806	Leq,D	99.1		589.86	-66.4	5.8	-9.1	-1.9		0.0	0.2	0.0	0.0	27.7
P-1809 A	Leq,D	98.9		708.19	-68.0	5.8	-20.6	-2.0		0.0	7.1	0.0	0.0	21.3
P-1810 A/B/C	Leq,D	99.0		627.52	-66.9	5.8	-24.8	-2.6		0.0	3.0	0.0	0.0	13.5
P-1811 A/B	Leq,D	99.1		595.56	-66.5	5.8	-9.0	-1.9		0.0	0.0	0.0	0.0	27.5
P-1811 A/B	Leq,D	99.1		635.26	-67.1	5.8	-22.0	-1.9		0.0	0.4	0.0	0.0	14.3
P-1847 A/B	Leq,D	99.4		567.13	-66.1	5.8	-18.3	-1.6		0.0	0.2	0.0	0.0	19.4
P-1849 A/B	Leq,D	99.4		572.95	-66.2	5.8	-17.8	-1.6		0.0	0.2	0.0	0.0	19.8
P-1853	Leq,D	99.1		553.58	-65.9	5.8	-7.3	-2.0	-1.41	0.0	0.2	0.0	0.0	28.6
Piping Furnace Tanks	Leq,D	87.1	72	405.97	-63.2	4.2	-10.7	-9.5		0.0	1.4	0.0	0.0	9.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	405.72	-63.2	4.4	-13.3	-6.3		0.0	0.9	0.0	0.0	20.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	365.74	-62.3	4.8	-17.9	-2.4		0.0	0.6	0.0	0.0	37.4
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	368.71	-62.3	4.8	-19.6	-5.6		0.0	1.0	0.0	0.0	33.5
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	657.72	-67.4	4.9	-23.2	-2.3		0.0	0.6	0.0	0.0	23.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	627.48	-66.9	4.8	-7.9	-2.2		0.0	0.2	0.0	0.0	39.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	606.88	-66.7	4.8	-9.2	-2.1		0.0	0.4	0.0	0.0	31.2
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	646.39	-67.2	4.8	-23.3	-2.3		0.0	4.5	0.0	0.0	27.7
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	615.07	-66.8	4.8	-23.2	-2.2		0.0	0.3	0.0	0.0	17.0
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	608.91	-66.7	4.8	-10.9	-2.2		0.0	1.9	0.0	0.0	30.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	606.98	-66.7	4.8	-9.0	-2.1		0.0	0.4	0.0	0.0	34.1
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	622.70	-66.9	4.8	-17.6	-2.1		0.0	1.6	0.0	0.0	25.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	634.82	-67.0	3.8	-5.6	-2.6		0.0	0.4	0.0	0.0	42.0
PSA Pipe 3" Lagging	Leq,D	80.6	11	380.58	-62.6	3.3	-4.9	-3.6		0.0	1.1	0.0	0.0	13.9
PSA Skid Additional Piping w NC	Leq,D	116.6	57	363.51	-62.2	4.8	-17.2	-2.4		0.0	0.6	0.0	0.0	40.1
Reformer-Burner Reformer East	Leq,D	97.3	269	407.91	-63.2	3.7	-9.0	-1.9		0.0	0.2	0.0	0.0	30.1
Reformer-Burner Reformer North	Leq,D	95.9	192	403.78	-63.1	3.6	-9.2	-1.9		0.0	0.3	0.0	0.0	25.6
Reformer-Burner Reformer South	Leq,D	95.8	191	419.66	-63.5	3.6	-22.7	-2.0		0.0	3.0	0.0	0.0	17.3
Reformer-Burner Reformer West	Leq,D	97.3	268	415.31	-63.4	3.4	-23.1	-2.0		0.0	2.7	0.0	0.0	17.9
RFG A from battery to process	Leq,D	99.4	87	409.91	-63.2	4.4	-12.2	-7.2		0.0	0.7	0.0	0.0	21.8
RFG A from battery to process w NC	Leq,D	115.2	42	366.97	-62.3	4.8	-21.3	-5.9		0.0	0.6	0.0	0.0	31.1
Stack Noise	Leq,D	108.4		445.02	-64.0	3.0	-1.4	-3.0		-7.0	0.4	0.0	0.0	36.4
Steam Turbine-Facade 01	Leq,D	99.6	29	372.24	-62.4	5.2	-22.7	-3.5	-0.12	0.0	0.1	0.0	0.0	16.2
Steam Turbine-Facade 02	Leq,D	96.2	13	374.05	-62.5	5.2	-23.9	-4.4	0.00	0.0	0.2	0.0	0.0	11.0
Steam Turbine-Facade 03	Leq,D	99.6	29	369.79	-62.4	5.2	-22.1	-3.0	-0.04	0.0	0.1	0.0	0.0	17.5
Steam Turbine-Facade 04	Leq,D	96.2	13	368.01	-62.3	5.2	-19.1	-2.5	-0.16	0.0	0.1	0.0	0.0	17.5
Steam Turbine-Roof 01	Leq,D	99.7	30	371.02	-62.4	4.8	-16.1	-2.7	-0.10	0.0	0.3	0.0	0.0	23.6
Tank Farm Pump 1	Leq,D	99.0	3	545.84	-65.7	5.6	-21.1	-2.2		0.0	4.7	0.0	0.0	20.4
Tank Farm Pump 2	Leq,D	99.0	3	564.82	-66.0	5.6	-19.1	-2.2		0.0	0.8	0.0	0.0	18.1
Tank Farm Pump 3	Leq,D	99.0	3	570.24	-66.1	5.6	-17.4	-2.3		0.0	1.3	0.0	0.0	20.1
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	234.89	-58.4	3.3	-5.7	-2.8	-0.06	0.0	0.2	-11.8	0.0	37.3
XF-1502 Splitter Area 1	Leq,D	104.5		309.11	-60.8	3.0	-4.0	-2.3	-0.43	-4.2	0.3	0.0	0.0	36.1
XF-1502 Splitter Area 2	Leq,D	104.5		311.80	-60.9	3.0	-1.4	-1.9	-0.52	-4.1	0.1	0.0	0.0	38.8
XF-1504 Splitter Area 1	Leq,D	104.5		312.22	-60.9	3.0	-4.1	-2.2	-0.45	-4.2	0.2	0.0	0.0	35.9
XF-1504 Splitter Area 2	Leq,D	104.5		314.88	-61.0	3.0	-4.1	-2.3	-0.54	-4.2	0.3	0.0	0.0	35.7
XF 251, 250, 271, 270	Leq,D	101.1	128	521.01	-65.3	4.4	-5.4	-1.4		-2.4	0.0	0.0	0.0	31.0
XF 260, 261A, 261 B	Leq,D	99.9	97	483.74	-64.7	4.3	-4.1	-1.3	0.00	-2.4	0.0	0.0	0.0	31.6
XF 304, XF 321	Leq,D	110.5	56	243.85	-58.7	3.0	-5.3	-0.8	-0.35	-2.7	0.2	0.0	0.0	45.8
XF 313, XF 314	Leq,D	113.0	18	220.53	-57.9	3.0	-5.1	-0.8		-3.7	0.2	0.0	0.0	48.8
XF 335-1, XF 335-2	Leq,D	113.4	54	234.43	-58.4	3.0	-4.3	-1.4	-0.35	-3.1	0.8	0.0	0.0	49.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
XF 353A/B	Leq,D	95.4	35	598.62	-66.5	4.6	-4.5	-1.7	-0.01	-2.5	0.0	0.0	0.0	24.8
XF 353A/B	Leq,D	95.4	35	575.33	-66.2	4.5	-4.6	-1.6		-2.5	0.0	0.0	0.0	25.1
XF 354A/B	Leq,D	95.4	35	592.11	-66.4	4.6	-6.4	-1.3	0.00	-2.1	0.0	0.0	0.0	23.8
XF 503	Leq,D	113.0	21	295.64	-60.4	3.4	-1.1	-3.3	-0.79	-4.0	0.0	0.0	0.0	46.8
XF - 1601	Leq,D	96.6		329.83	-61.4	3.0	-1.5	-1.3		-3.2	0.1	0.0	0.0	32.4
XF - 1602	Leq,D	96.6		334.07	-61.5	3.0	-3.5	-0.8		-1.7	0.0	0.0	0.0	32.1
XF Module 1510	Leq,D	108.3		310.54	-60.8	3.0	-3.9	-1.5	-0.44	-3.8	0.1	0.0	0.0	40.9
XF Module 1519	Leq,D	109.0		306.62	-60.7	3.0	-2.2	-1.7	-0.36	-4.0	0.1	0.0	0.0	43.2
xxxx xxxx xxxx xxxx	Leq,D		228								5.3			7.5
xxxx xxxx xxxx xxxx	Leq,D		520								8.1			29.4
xxxx xxxx xxxx xxxx	Leq,D		1341								6.5			27.8
xxxx xxxx xxxx xxxx	Leq,D		450								6.5			14.4
Receiver N-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.2 dB(A) Ld 7-19 dB(A) Leq,N 60.1 dB(A) Le 19-22 dB(A) CNEL 66.8 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	361.65	-62.2	5.0	-20.4	-1.6		0.0	1.2	0.0	0.0	26.4
18-1855 A/B	Leq,D	98.8		418.03	-63.4	5.5	-20.0	-1.3		0.0	0.0	0.0	0.0	19.6
18-1856 A/B	Leq,D	98.8		422.83	-63.5	5.6	-20.6	-1.4		0.0	0.0	0.0	0.0	18.8
18-1857 A/B	Leq,D	98.8		413.44	-63.3	5.5	-17.7	-1.2		0.0	0.0	0.0	0.0	22.1
18-1858 A/B	Leq,D	98.8		410.37	-63.3	5.4	-17.7	-1.2		0.0	0.0	0.0	0.0	22.0
18-PK 1802 Air Compressor Package	Leq,D	103.1		436.96	-63.8	5.7	-16.9	-0.6		0.0	0.0	0.0	0.0	27.6
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	355.07	-62.0	5.2	-8.2	-2.9	-0.14	0.0	0.9	-2.7	0.0	39.1
Air Compressor C 1	Leq,D	110.0	5	192.79	-56.7	5.1	-20.8	-0.5		0.0	8.4	0.0	0.0	45.5
Air Compressor Pump	Leq,D	100.3		380.29	-62.6	5.4	-22.8	-2.7	-0.36	0.0	0.8	0.0	0.0	18.2
Blower F 401	Leq,D	113.0		301.82	-60.6	5.1	-5.7	-0.5	-2.33	0.0	0.0	0.0	0.0	49.0
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	564.19	-66.0	5.5	-16.2	-1.0	-0.40	0.0	0.3	0.0	0.0	20.8
Boiler Feed Water Pump A	Leq,D	97.1	3	405.25	-63.1	5.4	-16.9	-1.2		0.0	0.0	0.0	0.0	21.3
Boiler Feed Water Pump B	Leq,D	97.1	3	407.73	-63.2	5.4	-16.7	-1.2		0.0	0.0	0.0	0.0	21.4
C370 A Motor	Leq,D	103.6	3	344.33	-61.7	4.7	-5.0	-1.9		0.0	0.5	0.0	0.0	40.2
C370 B Motor	Leq,D	108.6	3	351.06	-61.9	4.8	-11.8	-1.1		0.0	1.1	0.0	0.0	39.7
C370A	Leq,D	103.8	5	340.93	-61.6	4.8	-6.3	-1.7		0.0	0.0	0.0	0.0	38.9
C370B	Leq,D	103.8	5	347.73	-61.8	4.8	-12.8	-1.0		0.0	1.4	0.0	0.0	34.4
C-270 A	Leq,D	106.3	6	499.47	-65.0	5.2	-10.7	-1.7	-0.46	0.0	0.9	0.0	0.0	34.6
C-270 B	Leq,D	106.3	6	496.34	-64.9	5.2	-8.3	-2.0	-0.48	0.0	0.2	0.0	0.0	36.1
C-270 C	Leq,D	106.3	6	493.25	-64.9	5.2	-6.1	-2.3	-0.54	0.0	0.1	0.0	0.0	37.7
C-301 Compressor	Leq,D	106.8	3	491.88	-64.8	5.2	-12.9	-1.5	-0.17	0.0	0.0	0.0	0.0	32.6
C-301 Motor	Leq,D	106.8	4	489.24	-64.8	5.2	-14.3	-2.1	-0.19	0.0	0.0	0.0	0.0	30.6
C-351 Compressor	Leq,D	106.8	4	507.17	-65.1	5.2	-14.8	-1.4	-0.67	0.0	0.0	0.0	0.0	30.1
C-351 Motor	Leq,D	106.8	5	510.71	-65.2	5.1	-11.3	-2.3	-0.88	0.0	0.0	0.0	0.0	32.3
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	337.38	-61.6	5.4	-7.6	-0.8	-0.18	0.0	0.3	-33.5	0.0	36.7
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	254.21	-59.1	4.4	-22.4	-0.8	-0.42	-4.3	0.0	0.0	0.0	22.2
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	250.13	-59.0	4.4	-21.0	-0.9	-1.03	0.0	6.7	0.0	0.0	29.8
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	244.99	-58.8	4.4	-9.1	-0.7	-0.36	0.1	0.3	0.0	0.0	42.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	254.72	-59.1	4.5	-20.1	-0.6	-0.22	-7.8	0.0	0.0	0.0	27.3
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	252.28	-59.0	4.4	-21.2	-0.7	-1.05	-7.8	0.0	0.0	0.0	18.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	247.85	-58.9	4.4	-10.4	-0.7		4.1	0.7	0.0	0.0	39.7
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	277.02	-59.8	4.7	-10.9	-0.8	-0.37	-6.6	0.1	0.0	0.0	24.2
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	271.47	-59.7	4.6	-10.5	-0.7	-0.35	3.6	0.7	0.0	0.0	35.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	290.46	-60.3	4.3	-12.8	-0.8	-0.23	-6.9	12.8	0.0	0.0	36.8

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	281.26	-60.0	4.4	-3.0	-1.5	-0.34	3.3	0.5	0.0	0.0	44.0
Cooling Tower M 512	Leq,D	95.7		279.94	-59.9	5.2	-21.7	-1.1	-0.22	0.0	0.6	0.0	0.0	18.5
Cooling Tower M 513	Leq,D	95.7		279.42	-59.9	5.1	-21.4	-1.1	-0.28	0.0	0.6	0.0	0.0	18.7
Cooling Tower M 514	Leq,D	95.7		280.73	-60.0	5.2	-21.6	-1.1	-0.16	0.0	0.6	0.0	0.0	18.6
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	380.38	-62.6	4.0	-14.5	-0.5		-1.3	0.0	0.0	0.0	20.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	347.36	-61.8	4.9	-13.0	-0.1		0.0	0.0	0.0	0.0	25.3
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	345.01	-61.7	4.9	-10.0	-0.1		0.0	0.0	0.0	0.0	26.1
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	346.37	-61.8	4.4	-7.4	-0.1		0.0	0.0	0.0	0.0	28.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	347.71	-61.8	4.9	-12.9	-0.1		0.0	0.0	0.0	0.0	23.3
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	345.34	-61.8	4.9	-6.0	-0.1		0.0	0.0	0.0	0.0	32.3
FD Motor	Leq,D	103.3	2	348.25	-61.8	5.0	-23.8	-2.5		0.0	1.2	0.0	0.0	21.4
Feed Compressor -B Motor	Leq,D	103.8	5	379.83	-62.6	4.9	-17.2	-1.7		0.0	5.2	0.0	0.0	32.4
Feed Compressor-A Compressor	Leq,D	104.0	5	366.26	-62.3	4.9	-13.2	-1.2		0.0	0.0	0.0	0.0	32.3
Feed Compressor-A Motor	Leq,D	103.8	6	370.35	-62.4	4.8	-13.2	-1.7		0.0	0.1	0.0	0.0	31.4
Feed Compressor-B Compressor	Leq,D	104.0	7	375.43	-62.5	5.0	-16.4	-1.1		0.0	4.0	0.0	0.0	32.9
H2S Compressor 18-C-271	Leq,D	105.3	6	225.90	-58.1	4.7	-19.9	-0.8	-0.18	0.0	6.4	0.0	0.0	37.5
Heater # 5-Heater	Leq,D	91.1	13	560.17	-66.0	5.5	-20.1	-1.2	-0.45	0.0	0.0	0.0	0.0	12.0
Heater # 5-Heater	Leq,D	91.1	13	556.95	-65.9	5.5	-19.0	-1.2	-0.28	0.0	0.3	0.0	0.0	13.5
Heater # 5-Heater	Leq,D	91.1	13	563.34	-66.0	5.5	-19.9	-1.2	-0.77	0.0	4.0	0.0	0.0	15.8
Hydro Heater H-402	Leq,D	98.1		269.16	-59.6	5.1	-13.4	-0.4	-0.69	0.0	0.0	0.0	0.0	29.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	363.69	-62.2	5.1	-12.4	-0.1		0.0	0.0	0.0	0.0	17.4
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	365.20	-62.2	5.1	-14.4	-0.1		0.0	0.0	0.0	0.0	15.7
ID Fan-ID Fan - North	Leq,D	92.2	8	362.31	-62.2	5.1	-7.6	-0.1		0.0	0.0	0.0	0.0	27.5
ID Fan-ID Fan - North 2	Leq,D	91.4	7	364.86	-62.2	5.1	-9.6	-0.1		0.0	0.0	0.0	0.0	24.6
ID Fan-ID Fan - South	Leq,D	92.3	9	364.36	-62.2	5.1	-14.7	-0.1		0.0	0.0	0.0	0.0	20.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	365.82	-62.3	5.1	-13.6	-0.1		0.0	0.0	0.0	0.0	20.6
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	363.90	-62.2	4.8	-7.8	-0.1		0.0	0.0	0.0	0.0	28.6
Motor & Pump P 56A/B	Leq,D	93.7		251.41	-59.0	5.1	-18.8	-1.1	-0.25	0.0	1.7	0.0	0.0	21.3
Motor & Pump P 120/121	Leq,D	96.2	2	204.85	-57.2	5.0	-12.1	-0.7		0.0	2.6	0.0	0.0	33.9
Motor & Pump P 211/212	Leq,D	93.7		269.44	-59.6	5.3	-18.5	-1.1	-0.94	0.0	0.3	0.0	0.0	19.2
Motor & Pump P 215/214	Leq,D	94.6		264.42	-59.4	5.3	-19.4	-1.2	-0.79	0.0	2.6	0.0	0.0	21.6
Motor & Pump P 216	Leq,D	98.3		267.41	-59.5	5.1	-22.8	-1.7	-0.13	0.0	0.0	0.0	0.0	19.2
Motor & Pump P 217/218	Leq,D	93.7		267.53	-59.5	5.5	-18.7	-1.1	-0.92	0.0	0.5	0.0	0.0	19.4
Motor & Pump P 300	Leq,D	97.1	2	198.61	-57.0	5.0	-12.3	-0.7	-0.42	0.0	1.1	0.0	0.0	33.0
Motor & Pump P 301	Leq,D	102.1	2	200.22	-57.0	5.0	-12.1	-0.7	-0.45	0.0	0.7	0.0	0.0	37.6
Motor & Pump P 302	Leq,D	97.1	2	196.91	-56.9	5.0	-12.4	-0.6	-0.38	0.0	1.4	0.0	0.0	33.2
Motor & Pump P 303	Leq,D	97.1	2	195.46	-56.8	4.9	-12.3	-0.6	-0.35	0.0	1.5	0.0	0.0	33.4
Motor & Pump P 305	Leq,D	97.5	2	194.05	-56.8	4.9	-12.4	-0.6	-0.31	0.0	1.6	0.0	0.0	33.9
Motor & Pump P 306	Leq,D	112.6	4	185.48	-56.4	4.7	-17.6	-0.7	-0.19	0.0	2.3	0.0	0.0	44.8
Motor & Pump P 307	Leq,D	102.1	2	204.86	-57.2	5.0	-11.8	-0.7	-0.56	0.0	0.0	0.0	0.0	36.9
Motor & Pump P 309	Leq,D	97.5	2	192.63	-56.7	4.9	-12.6	-0.6	-0.28	0.0	1.4	0.0	0.0	33.6
Motor & Pump P 312	Leq,D	101.5	2	225.93	-58.1	5.3	-12.8	-0.8	-0.95	0.0	1.6	0.0	0.0	35.8
Motor & Pump P 313	Leq,D	101.5	2	227.66	-58.1	5.3	-16.2	-0.7	-0.78	0.0	3.6	0.0	0.0	34.5
Motor & Pump P 315	Leq,D	102.9	2	233.82	-58.4	5.2	-18.4	-0.7	-0.60	0.0	3.5	0.0	0.0	33.5
Motor & Pump P 316	Leq,D	102.9	2	235.75	-58.4	5.2	-18.3	-0.7	-0.61	0.0	2.6	0.0	0.0	32.7
Motor & Pump P 317	Leq,D	102.9	2	237.70	-58.5	5.1	-18.2	-0.7	-0.60	0.0	2.2	0.0	0.0	32.2
Motor & Pump P 318	Leq,D	100.2	1	232.05	-58.3	5.4	-18.6	-0.7	-0.59	0.0	2.1	0.0	0.0	29.4
Motor & Pump P 319	Leq,D	100.2	1	230.61	-58.2	5.4	-18.6	-0.7	-0.58	0.0	3.6	0.0	0.0	31.0
Motor & Pump P 327	Leq,D	111.2	3	177.79	-56.0	4.9	-20.5	-1.0	-0.02	0.0	3.5	0.0	0.0	42.1
Motor & Pump P 328	Leq,D	109.9	5	190.99	-56.6	4.7	-13.5	-0.6	-0.27	0.0	1.9	0.0	0.0	45.6
Motor & Pump P 329	Leq,D	110.2	5	188.27	-56.5	4.7	-15.4	-0.7	-0.22	0.0	2.5	0.0	0.0	44.6
Motor & Pump P 451	Leq,D	93.7		276.02	-59.8	5.2	-17.2	-1.2	-0.64	0.0	3.0	0.0	0.0	23.0
Motor & Pump P 453	Leq,D	93.7		287.94	-60.2	5.2	-18.2	-1.2	-0.69	0.0	1.1	0.0	0.0	19.7
Motor & Pump P 454	Leq,D	93.7		275.09	-59.8	5.2	-17.3	-1.2	-0.68	0.0	2.6	0.0	0.0	22.5
Motor & Pump P 457	Leq,D	93.7		289.37	-60.2	5.2	-18.1	-1.2	-0.71	0.0	1.3	0.0	0.0	19.9
Motor & Pump P 458	Leq,D	93.7		276.43	-59.8	5.2	-17.0	-1.2	-0.63	0.0	0.3	0.0	0.0	20.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		274.16	-59.8	5.2	-17.3	-1.2	-0.66	0.0	2.6	0.0	0.0	22.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		255.27	-59.1	5.2	-14.2	-1.1	-0.25	0.0	0.8	0.0	0.0	27.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		253.76	-59.1	5.2	-14.0	-1.1	-0.22	0.0	1.1	0.0	0.0	28.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		229.00	-58.2	5.1	-3.8	-2.4	-0.08	0.0	0.8	0.0	0.0	36.9
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		228.03	-58.2	5.1	-3.8	-2.4	-0.06	0.0	0.8	0.0	0.0	36.9
Motor & Pump P 1601 A	Leq,D	96.3	2	268.48	-59.6	5.0	-2.9	-3.0	-0.48	0.0	0.8	0.0	0.0	36.1
Motor & Pump P 1601 B	Leq,D	96.3	2	269.30	-59.6	5.0	-2.9	-3.0	-0.42	0.0	0.4	0.0	0.0	35.8
Motor & Pump P 1602 A	Leq,D	96.3	2	270.10	-59.6	5.0	-4.5	-2.4	-0.16	0.0	1.0	0.0	0.0	35.6
Motor & Pump P 1602 B	Leq,D	96.5	2	270.90	-59.6	5.0	-9.0	-1.3		0.0	5.0	0.0	0.0	36.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	259.01	-59.3	5.2	-4.9	-1.8	-0.26	0.0	0.1	0.0	0.0	35.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	254.70	-59.1	5.2	-3.1	-1.9	-0.27	0.0	0.2	0.0	0.0	37.7
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	252.55	-59.0	5.2	-3.4	-1.9	-0.28	0.0	0.2	0.0	0.0	37.3
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	252.70	-59.0	5.2	-13.0	-1.1	-0.16	0.0	2.8	0.0	0.0	31.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	251.10	-59.0	5.2	-11.1	-1.2	-0.12	0.0	2.0	0.0	0.0	32.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	251.48	-59.0	5.2	-3.9	-2.5	-0.51	0.0	1.1	0.0	0.0	36.8
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	250.31	-59.0	5.2	-3.9	-2.4	-0.42	0.0	0.7	0.0	0.0	36.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	248.36	-58.9	5.2	-3.6	-2.2	-0.28	0.0	0.7	0.0	0.0	37.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	249.25	-58.9	5.2	-4.2	-2.2	-0.34	0.0	0.3	0.0	0.0	36.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	203.81	-57.2	4.5	-2.0	-1.9		0.0	3.0	0.0	0.0	50.5
P-2 A/B	Leq,D	98.5		599.34	-66.5	5.8	-15.0	-1.6	-0.43	0.0	0.0	0.0	0.0	20.7
P-50 A/B	Leq,D	98.1		556.50	-65.9	5.8	-24.2	-2.1	-0.85	0.0	0.0	0.0	0.0	10.8
P-51 A/B	Leq,D	98.1		559.34	-65.9	5.8	-24.5	-2.3	-0.22	0.0	0.0	0.0	0.0	10.9
P-060 A/B	Leq,D	98.1		549.35	-65.8	5.8	-17.0	-1.5	-0.49	0.0	0.0	0.0	0.0	19.1
P-63	Leq,D	98.5		582.92	-66.3	5.8	-22.0	-1.8	-1.19	0.0	0.0	0.0	0.0	13.0
P-70 A/B	Leq,D	98.1		552.51	-65.8	5.8	-24.3	-2.2	-0.68	0.0	0.0	0.0	0.0	10.8
P-73 A/B	Leq,D	98.5		595.99	-66.5	5.8	-24.2	-2.3		0.0	0.0	0.0	0.0	11.3
P-251 A/B	Leq,D	98.2		448.25	-64.0	5.7	-11.0	-1.4	-0.56	0.0	0.0	0.0	0.0	26.9
P-252 A/B	Leq,D	98.2		441.86	-63.9	5.7	-8.5	-1.4	-0.26	0.0	0.0	0.0	0.0	29.9
P-253	Leq,D	98.2		446.73	-64.0	5.7	-8.4	-1.4	-0.26	0.0	0.0	0.0	0.0	29.8
P-254 A/B	Leq,D	98.2		455.21	-64.2	5.7	-7.6	-1.5	-0.56	0.0	0.0	0.0	0.0	30.1
P-255 A/B	Leq,D	98.2		453.06	-64.1	5.7	-5.7	-1.8	-0.55	0.0	0.0	0.0	0.0	31.8
P-255 A/B	Leq,D	98.2		443.74	-63.9	5.7	-10.4	-1.4	-0.55	0.0	0.3	0.0	0.0	27.9
P-256 A/B	Leq,D	98.2		450.30	-64.1	5.7	-10.3	-1.5	-0.56	0.0	0.0	0.0	0.0	27.6
P-259 A/B	Leq,D	98.2		446.05	-64.0	5.7	-11.0	-1.4	-0.56	0.0	0.2	0.0	0.0	27.2
P-260	Leq,D	99.1		429.74	-63.7	5.7	-12.6	-1.3	-0.25	0.0	0.3	0.0	0.0	27.3
P-261 A/B	Leq,D	98.0		416.00	-63.4	5.7	-19.7	-1.3	-0.21	0.0	1.4	0.0	0.0	20.6
P-262 A/B	Leq,D	99.1		424.62	-63.6	5.7	-13.0	-1.3	-0.27	0.0	0.3	0.0	0.0	27.1
P-263 A/B	Leq,D	99.4		426.90	-63.6	5.7	-13.3	-1.3	-0.25	0.0	0.3	0.0	0.0	27.0
P-270 A/B	Leq,D	98.5		481.64	-64.6	5.8	-13.0	-1.4	-0.15	0.0	0.0	0.0	0.0	25.0
P-271 A/B	Leq,D	98.2		461.44	-64.3	5.7	-8.1	-1.5	-0.57	0.0	0.0	0.0	0.0	29.5
P-272 A/B	Leq,D	98.2		458.40	-64.2	5.7	-8.1	-1.5	-0.57	0.0	0.0	0.0	0.0	29.6
P-273 A/B	Leq,D	98.5		479.29	-64.6	5.8	-13.0	-1.4	-0.03	0.0	0.0	0.0	0.0	25.2
P-275 A/B/C	Leq,D	98.2		453.84	-64.1	5.7	-9.5	-1.5	-0.25	0.0	0.0	0.0	0.0	28.6
P-305	Leq,D	99.3		534.67	-65.6	5.8	-6.1	-2.0	-1.03	0.0	0.0	0.0	0.0	30.4
P-306	Leq,D	100.8		541.11	-65.7	5.8	-12.4	-1.6	-1.17	0.0	0.0	0.0	0.0	25.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-309	Leq,D	99.3		536.16	-65.6	5.8	-5.9	-2.0	-1.03	0.0	0.0	0.0	0.0	30.5
P-328	Leq,D	100.8		544.99	-65.7	5.8	-16.7	-1.6	-1.39	0.0	0.0	0.0	0.0	21.2
P-329	Leq,D	100.8		543.00	-65.7	5.8	-12.3	-1.6	-1.28	0.0	0.0	0.0	0.0	25.7
P-353	Leq,D	98.5		525.27	-65.4	5.6	-16.4	-1.5	-0.91	0.0	0.0	0.0	0.0	19.9
P-358 A/B	Leq,D	99.4		520.55	-65.3	5.8	-22.7	-1.8	-0.91	0.0	0.0	0.0	0.0	14.5
P-359 A/B	Leq,D	99.4		524.07	-65.4	5.8	-19.1	-1.4	-1.08	0.0	0.0	0.0	0.0	18.2
P-360 A/B	Leq,D	99.4		530.90	-65.5	5.8	-19.6	-1.5	-1.34	0.0	0.0	0.0	0.0	17.2
P-361A	Leq,D	98.1		534.94	-65.6	5.6	-17.7	-1.5	-0.27	0.0	0.7	0.0	0.0	19.3
P-371 A/B	Leq,D	98.0		314.93	-61.0	5.3	-14.8	-0.9	-0.59	0.0	0.1	0.0	0.0	26.2
P-373 A/B	Leq,D	98.0		324.31	-61.2	5.4	-2.1	-1.4	-0.10	0.0	0.3	0.0	0.0	38.9
P-374 A/B	Leq,D	98.0		322.17	-61.2	5.4	-4.4	-1.6	-0.21	0.0	0.6	0.0	0.0	36.6
P-375 A/B	Leq,D	98.0		317.36	-61.0	5.3	-11.8	-1.0	-0.48	0.0	0.1	0.0	0.0	29.2
P-376	Leq,D	98.0		320.87	-61.1	5.4	-0.4	-1.4	-0.28	0.0	0.2	0.0	0.0	40.4
P-376 A/B	Leq,D	98.0		326.53	-61.3	5.4	-3.2	-1.4		0.0	0.4	0.0	0.0	37.9
P-377	Leq,D	98.0		319.57	-61.1	5.4	-6.8	-1.2		0.0	0.9	0.0	0.0	35.1
P-1101 A	Leq,D	98.9		579.50	-66.3	5.6	-21.2	-1.8		0.0	0.0	0.0	0.0	15.2
P-1103	Leq,D	98.9		578.35	-66.2	5.6	-21.0	-1.8		0.0	0.0	0.0	0.0	15.4
P-1105 A/B/C	Leq,D	98.9		583.60	-66.3	5.6	-21.5	-1.8	-0.08	0.0	0.0	0.0	0.0	14.8
P-1800	Leq,D	98.9		631.27	-67.0	5.8	-20.6	-1.8		0.0	0.7	0.0	0.0	16.0
P-1801	Leq,D	98.9		666.13	-67.5	5.8	-24.9	-2.8		0.0	0.4	0.0	0.0	9.9
P-1802	Leq,D	98.9		664.47	-67.4	5.8	-25.0	-2.8		0.0	0.2	0.0	0.0	9.7
P-1803	Leq,D	99.1		535.95	-65.6	5.7	-24.6	-2.2		0.0	0.4	0.0	0.0	12.9
P-1804	Leq,D	99.1		556.00	-65.9	5.7	-22.8	-1.8		0.0	1.1	0.0	0.0	15.4
P-1805	Leq,D	99.1		558.41	-65.9	5.7	-22.6	-1.8		0.0	0.2	0.0	0.0	14.7
P-1806	Leq,D	99.1		517.47	-65.3	5.7	-19.9	-1.5		0.0	0.0	0.0	0.0	18.2
P-1809 A	Leq,D	98.9		636.87	-67.1	5.8	-19.9	-1.8		0.0	4.8	0.0	0.0	20.7
P-1810 A/B/C	Leq,D	99.0		552.93	-65.8	5.7	-24.8	-2.4		0.0	0.3	0.0	0.0	11.9
P-1811 A/B	Leq,D	99.1		522.76	-65.4	5.7	-19.6	-1.5		0.0	0.0	0.0	0.0	18.3
P-1811 A/B	Leq,D	99.1		561.45	-66.0	5.7	-22.2	-1.7		0.0	0.1	0.0	0.0	15.1
P-1847 A/B	Leq,D	99.4		488.61	-64.8	5.6	-18.6	-1.4		0.0	0.1	0.0	0.0	20.3
P-1849 A/B	Leq,D	99.4		494.11	-64.9	5.6	-18.5	-1.4		0.0	0.1	0.0	0.0	20.3
P-1853	Leq,D	99.1		494.54	-64.9	5.8	-6.1	-1.9	-0.93	0.0	0.2	0.0	0.0	31.4
Piping Furnace Tanks	Leq,D	87.1	72	335.50	-61.5	3.9	-18.6	-5.3		0.0	0.6	0.0	0.0	6.1
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	338.20	-61.6	4.1	-18.6	-4.5		0.0	0.8	0.0	0.0	18.6
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	298.55	-60.5	4.5	-19.4	-2.0		0.0	0.1	0.0	0.0	37.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	301.40	-60.6	4.5	-20.8	-5.2		0.0	0.6	0.0	0.0	33.7
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	576.93	-66.2	4.5	-23.1	-2.1		0.0	0.8	0.0	0.0	24.4
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	546.25	-65.7	4.4	-8.2	-2.0		0.0	0.2	0.0	0.0	39.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	527.25	-65.4	4.4	-10.2	-1.8		0.0	0.3	0.0	0.0	31.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	567.77	-66.1	4.5	-22.7	-2.0		0.0	2.6	0.0	0.0	27.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	536.61	-65.6	4.4	-22.1	-1.8		0.0	1.0	0.0	0.0	20.0
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	528.80	-65.5	4.4	-11.3	-1.9		0.0	1.8	0.0	0.0	31.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	528.13	-65.4	4.4	-8.9	-1.8		0.0	0.2	0.0	0.0	35.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	544.55	-65.7	4.5	-20.7	-1.8		0.0	5.0	0.0	0.0	27.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	554.96	-65.9	3.3	-5.7	-2.3		0.0	0.3	0.0	0.0	42.8
PSA Pipe 3" Lagging	Leq,D	80.6	11	311.17	-60.9	3.1	-11.7	-2.2		0.0	0.4	0.0	0.0	9.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	296.68	-60.4	4.5	-19.0	-2.0		0.0	0.1	0.0	0.0	39.7
Reformer-Burner Reformer East	Leq,D	97.3	269	333.96	-61.5	3.4	-8.6	-1.4		0.0	0.0	0.0	0.0	32.3
Reformer-Burner Reformer North	Leq,D	95.9	192	331.50	-61.4	3.4	-5.9	-1.6		0.0	0.0	0.0	0.0	30.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer South	Leq,D	95.8	191	345.64	-61.8	3.2	-21.9	-1.6		0.0	1.8	0.0	0.0	18.6
Reformer-Burner Reformer West	Leq,D	97.3	268	342.96	-61.7	3.0	-22.0	-1.6		0.0	1.3	0.0	0.0	19.2
RFG A from battery to process	Leq,D	99.4	87	341.68	-61.7	4.1	-19.0	-4.7		0.0	0.4	0.0	0.0	18.5
RFG A from battery to process w NC	Leq,D	115.2	42	299.29	-60.5	4.5	-22.4	-5.6		0.0	0.2	0.0	0.0	31.4
Stack Noise	Leq,D	108.4		368.95	-62.3	2.9	-1.6	-2.8		-7.3	0.2	0.0	0.0	37.6
Steam Turbine-Facade 01	Leq,D	99.6	29	308.38	-60.8	5.1	-22.8	-3.4		0.0	0.2	0.0	0.0	17.8
Steam Turbine-Facade 02	Leq,D	96.2	13	309.39	-60.8	5.1	-23.9	-4.1		0.0	0.0	0.0	0.0	12.6
Steam Turbine-Facade 03	Leq,D	99.6	29	305.45	-60.7	5.1	-22.7	-3.1		0.0	0.1	0.0	0.0	18.2
Steam Turbine-Facade 04	Leq,D	96.2	13	304.47	-60.7	5.0	-19.7	-2.4		0.0	0.2	0.0	0.0	18.8
Steam Turbine-Roof 01	Leq,D	99.7	30	306.92	-60.7	4.5	-19.9	-2.4		0.0	0.1	0.0	0.0	21.2
Tank Farm Pump 1	Leq,D	99.0	3	466.25	-64.4	5.3	-21.4	-1.9		0.0	2.9	0.0	0.0	19.4
Tank Farm Pump 2	Leq,D	99.0	3	484.29	-64.7	5.3	-18.2	-2.0		0.0	0.4	0.0	0.0	19.9
Tank Farm Pump 3	Leq,D	99.0	3	489.49	-64.8	5.3	-17.8	-2.0		0.0	0.8	0.0	0.0	20.6
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	275.13	-59.8	4.0	-5.6	-2.9	-0.04	0.0	0.7	-11.8	0.0	37.1
XF-1502 Splitter Area 1	Leq,D	104.5		252.43	-59.0	3.0	-2.2	-1.5	-0.05	-4.0	0.9	0.0	0.0	41.7
XF-1502 Splitter Area 2	Leq,D	104.5		255.70	-59.1	3.0	-0.2	-1.8	-0.33	-4.5	0.7	0.0	0.0	42.4
XF-1504 Splitter Area 1	Leq,D	104.5		254.65	-59.1	3.0	-0.2	-1.8	-0.50	-4.5	0.7	0.0	0.0	42.2
XF-1504 Splitter Area 2	Leq,D	104.5		257.88	-59.2	3.0	-0.2	-1.8	-0.51	-4.5	0.7	0.0	0.0	42.1
XF 251, 250, 271, 270	Leq,D	101.1	128	457.49	-64.2	4.2	-2.0	-1.2		-2.5	0.0	0.0	0.0	35.3
XF 260, 261A, 261 B	Leq,D	99.9	97	426.44	-63.6	4.0	-3.3	-1.5	-0.18	-2.8	0.1	0.0	0.0	32.6
XF 304, XF 321	Leq,D	110.5	56	199.45	-57.0	3.0	-8.4	-0.4	-0.50	-2.1	0.1	0.0	0.0	45.2
XF 313, XF 314	Leq,D	113.0	18	170.45	-55.6	3.0	-12.4	-0.5		-3.1	0.6	0.0	0.0	45.0
XF 335-1, XF 335-2	Leq,D	113.4	54	187.85	-56.5	3.0	-7.0	-0.8	-0.36	-2.7	0.5	0.0	0.0	49.5
XF 353A/B	Leq,D	95.4	35	531.53	-65.5	4.4	-9.0	-0.8	-0.01	-1.7	0.0	0.0	0.0	22.8
XF 353A/B	Leq,D	95.4	35	507.48	-65.1	4.3	-8.9	-0.8		-1.5	0.0	0.0	0.0	23.5
XF 354A/B	Leq,D	95.4	35	529.28	-65.5	4.4	-4.2	-1.5	0.00	-2.4	0.0	0.0	0.0	26.2
XF 503	Leq,D	113.0	21	253.37	-59.1	3.0	-5.3	-2.5	-0.94	-3.7	0.0	0.0	0.0	44.5
XF - 1601	Leq,D	96.6		271.04	-59.7	3.0	-0.5	-1.0		-2.9	0.1	0.0	0.0	35.7
XF - 1602	Leq,D	96.6		274.21	-59.8	3.0	-0.5	-1.0		-2.9	0.1	0.0	0.0	35.6
XF Module 1510	Leq,D	108.3		256.22	-59.2	3.0	-2.0	-1.6	-0.09	-4.1	1.2	0.0	0.0	45.4
XF Module 1519	Leq,D	109.0		251.49	-59.0	3.0	-1.7	-1.7	-0.09	-4.2	1.1	0.0	0.0	46.5
xxxx xxxx xxxx xxxx	Leq,D		228								5.8			8.7
xxxx xxxx xxxx xxxx	Leq,D		520								11.8			34.0
xxxx xxxx xxxx xxxx	Leq,D		1341								7.3			31.2
xxxx xxxx xxxx xxxx	Leq,D		450								9.0			13.2
Receiver N-2 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 53.7 dB(A)		Ld 7-19 dB(A)		Leq,N 53.6 dB(A)		Le 19-22 dB(A)		CNEL 60.3 dB(A)		Lmax day hr dB(A)	Ld
ID Fan Motor	Leq,D	104.4	2	289.02	-60.2	3.2	-24.2	-2.3		0.0	5.4	0.0	0.0	26.1
18-1855 A/B	Leq,D	98.8		357.94	-62.1	3.4	-24.1	-1.7		0.0	3.5	0.0	0.0	17.9
18-1856 A/B	Leq,D	98.8		361.60	-62.2	3.4	-23.8	-1.6		0.0	2.4	0.0	0.0	17.0
18-1857 A/B	Leq,D	98.8		354.47	-62.0	3.4	-23.5	-1.5		0.0	7.4	0.0	0.0	22.5
18-1858 A/B	Leq,D	98.8		352.23	-61.9	3.2	-23.3	-1.5		0.0	7.4	0.0	0.0	22.6
18-PK 1802 Air Compressor Package	Leq,D	103.1		376.04	-62.5	2.3	-21.2	-0.8		0.0	1.1	0.0	0.0	22.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	344.71	-61.7	4.4	-17.5	-1.0	-0.09	0.0	2.1	-2.7	0.0	32.5
Air Compressor C 1	Leq,D	110.0	5	177.01	-56.0	4.5	-21.8	-0.6		0.0	3.0	0.0	0.0	39.2
Air Compressor Pump	Leq,D	100.3		336.03	-61.5	3.9	-24.3	-3.6		0.0	3.2	0.0	0.0	18.0
Blower F 401	Leq,D	113.0		287.50	-60.2	2.6	-12.8	-0.4	-2.30	0.0	0.0	0.0	0.0	40.0
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	506.74	-65.1	3.1	-22.0	-1.4	-0.83	0.0	1.9	0.0	0.0	14.2
Boiler Feed Water Pump A	Leq,D	97.1	3	340.99	-61.6	3.4	-24.0	-1.9		0.0	2.6	0.0	0.0	15.5
Boiler Feed Water Pump B	Leq,D	97.1	3	343.89	-61.7	3.4	-24.0	-1.9		0.0	2.6	0.0	0.0	15.5
C370 A Motor	Leq,D	103.6	3	294.59	-60.4	2.8	-22.2	-1.4		0.0	3.2	0.0	0.0	25.7
C370 B Motor	Leq,D	108.6	3	298.93	-60.5	2.8	-22.4	-1.4		0.0	3.3	0.0	0.0	30.3
C370A	Leq,D	103.8	5	290.55	-60.3	2.8	-22.4	-1.4		0.0	3.2	0.0	0.0	25.9
C370B	Leq,D	103.8	5	294.96	-60.4	2.8	-22.5	-1.4		0.0	2.9	0.0	0.0	25.2
C-270 A	Leq,D	106.3	6	440.51	-63.9	3.4	-21.4	-1.7	-0.25	0.0	2.9	0.0	0.0	25.4
C-270 B	Leq,D	106.3	6	438.08	-63.8	3.4	-21.3	-1.7	-0.15	0.0	4.6	0.0	0.0	27.4
C-270 C	Leq,D	106.3	6	435.68	-63.8	3.4	-21.5	-1.7	-0.23	0.0	8.2	0.0	0.0	30.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-301 Compressor	Leq,D	106.8	3	428.27	-63.6	3.4	-22.8	-2.0	-0.13	0.0	3.4	0.0	0.0	25.0
C-301 Motor	Leq,D	106.8	4	426.11	-63.6	3.4	-23.8	-3.5	-0.16	0.0	5.2	0.0	0.0	24.4
C-351 Compressor	Leq,D	106.8	4	445.00	-64.0	3.4	-22.6	-2.0	-0.53	0.0	3.9	0.0	0.0	25.1
C-351 Motor	Leq,D	106.8	5	449.03	-64.0	3.3	-23.4	-3.5	-0.72	0.0	5.8	0.0	0.0	24.2
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	332.57	-61.4	4.3	-15.7	-0.4	-0.14	0.0	1.9	-33.5	0.0	29.8
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	249.40	-58.9	4.1	-21.2	-0.7	-0.10	3.6	0.0	0.0	0.0	31.5
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	243.64	-58.7	4.0	-15.6	-0.7	0.00	0.0	0.0	0.0	0.0	29.5
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	243.23	-58.7	4.1	-13.8	-0.5	-0.55	0.1	0.0	0.0	0.0	37.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	253.76	-59.1	4.1	-21.7	-0.8	-0.98	-7.8	0.0	0.0	0.0	24.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	246.62	-58.8	4.0	-22.2	-0.8	-0.02	-7.8	0.0	0.0	0.0	18.2
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	250.82	-59.0	4.2	-16.6	-0.7	-1.39	-4.2	0.0	0.0	0.0	22.7
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	244.47	-58.8	2.3	-22.3	-1.2	-0.84	-2.4	1.7	0.0	0.0	16.4
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	243.28	-58.7	2.2	-15.6	-0.8	-0.18	2.2	8.3	0.0	0.0	35.3
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	249.91	-58.9	1.9	-22.7	-1.3		-3.7	4.4	0.0	0.0	20.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	246.56	-58.8	2.0	-18.0	-0.7	-0.13	4.2	9.8	0.0	0.0	38.9
Cooling Tower M 512	Leq,D	95.7		250.25	-59.0	3.3	-22.9	-1.2	-0.85	0.0	2.1	0.0	0.0	17.1
Cooling Tower M 513	Leq,D	95.7		250.24	-59.0	3.2	-22.5	-1.2	-0.85	0.0	2.0	0.0	0.0	17.3
Cooling Tower M 514	Leq,D	95.7		250.54	-59.0	3.2	-23.0	-1.2	-0.85	0.0	2.1	0.0	0.0	17.0
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	314.07	-60.9	0.8	-19.5	-0.7		-1.4	0.4	0.0	0.0	14.5
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	275.38	-59.8	3.2	-15.9	-0.1		0.0	0.1	0.0	0.0	22.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	272.89	-59.7	3.2	-15.1	-0.1		0.0	0.1	0.0	0.0	21.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	274.60	-59.8	2.5	-13.3	-0.1		0.0	0.1	0.0	0.0	22.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	276.27	-59.8	3.2	-15.5	-0.1		0.0	0.1	0.0	0.0	21.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	273.77	-59.7	3.2	-14.2	-0.1		0.0	0.1	0.0	0.0	24.6
FD Motor	Leq,D	103.3	2	276.08	-59.8	3.1	-24.6	-2.9		0.0	4.6	0.0	0.0	23.6
Feed Compressor -B Motor	Leq,D	103.8	5	322.57	-61.2	2.9	-23.4	-2.9		0.0	6.4	0.0	0.0	25.7
Feed Compressor-A Compressor	Leq,D	104.0	5	311.04	-60.8	3.0	-22.2	-1.4		0.0	1.5	0.0	0.0	24.1
Feed Compressor-A Motor	Leq,D	103.8	6	315.82	-61.0	2.9	-23.4	-2.7		0.0	3.8	0.0	0.0	23.6
Feed Compressor-B Compressor	Leq,D	104.0	7	317.37	-61.0	3.0	-24.0	-1.9		0.0	6.1	0.0	0.0	26.3
H2S Compressor 18-C-271	Leq,D	105.3	6	211.88	-57.5	4.2	-21.7	-0.9		0.0	0.1	0.0	0.0	29.4
Heater # 5-Heater	Leq,D	91.1	13	502.61	-65.0	3.1	-23.0	-1.7	-0.87	0.0	2.4	0.0	0.0	9.0
Heater # 5-Heater	Leq,D	91.1	13	500.03	-65.0	3.1	-23.2	-1.7	-0.54	0.0	1.7	0.0	0.0	8.4
Heater # 5-Heater	Leq,D	91.1	13	505.16	-65.1	3.1	-23.0	-1.7	-1.16	0.0	3.9	0.0	0.0	10.2
Hydro Heater H-402	Leq,D	98.1		249.15	-58.9	2.1	-19.1	-0.7		0.0	4.1	0.0	0.0	25.6
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	291.19	-60.3	4.1	-15.8	-0.1		0.0	0.0	0.0	0.0	14.9
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	293.04	-60.3	4.1	-15.6	-0.1		0.0	0.0	0.0	0.0	15.4
ID Fan-ID Fan - North	Leq,D	92.2	8	289.95	-60.2	4.1	-14.2	-0.1		0.0	0.0	0.0	0.0	21.9
ID Fan-ID Fan - North 2	Leq,D	91.4	7	292.25	-60.3	4.1	-14.6	-0.1		0.0	0.0	0.0	0.0	20.5
ID Fan-ID Fan - South	Leq,D	92.3	9	292.48	-60.3	4.1	-16.1	-0.1		0.0	0.0	0.0	0.0	19.9
ID Fan-ID Fan - South 2	Leq,D	91.4	7	293.43	-60.3	4.1	-15.6	-0.1		0.0	0.0	0.0	0.0	19.5
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	291.68	-60.3	3.6	-13.7	-0.1		0.0	0.0	0.0	0.0	23.5
Motor & Pump P 56A/B	Leq,D	93.7		233.48	-58.4	4.1	-18.6	-1.3	-1.11	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 120/121	Leq,D	96.2	2	189.72	-56.6	4.5	-21.1	-0.7		0.0	3.6	0.0	0.0	25.9
Motor & Pump P 211/212	Leq,D	93.7		260.11	-59.3	4.9	-21.3	-1.4	-0.56	0.0	0.0	0.0	0.0	16.0
Motor & Pump P 215/214	Leq,D	94.6		255.09	-59.1	4.9	-21.3	-1.4	-0.45	0.0	0.0	0.0	0.0	17.2
Motor & Pump P 216	Leq,D	98.3		260.56	-59.3	4.8	-20.7	-1.4	-0.55	0.0	0.0	0.0	0.0	21.2
Motor & Pump P 217/218	Leq,D	93.7		258.25	-59.2	5.1	-21.4	-1.4	-0.51	0.0	0.0	0.0	0.0	16.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 300	Leq,D	97.1	2	189.34	-56.5	4.7	-19.9	-0.7		0.0	1.5	0.0	0.0	26.2
Motor & Pump P 301	Leq,D	102.1	2	191.01	-56.6	4.7	-19.9	-0.7		0.0	1.2	0.0	0.0	30.8
Motor & Pump P 302	Leq,D	97.1	2	187.57	-56.5	4.7	-19.9	-0.6		0.0	1.8	0.0	0.0	26.6
Motor & Pump P 303	Leq,D	97.1	2	186.11	-56.4	4.6	-19.9	-0.6		0.0	1.8	0.0	0.0	26.7
Motor & Pump P 305	Leq,D	97.5	2	184.64	-56.3	4.6	-20.1	-0.7		0.0	2.2	0.0	0.0	27.2
Motor & Pump P 306	Leq,D	112.6	4	175.64	-55.9	4.3	-21.1	-0.9		0.0	1.8	0.0	0.0	40.9
Motor & Pump P 307	Leq,D	102.1	2	195.83	-56.8	4.7	-19.3	-0.6		0.0	0.1	0.0	0.0	30.1
Motor & Pump P 309	Leq,D	97.5	2	183.17	-56.2	4.6	-20.4	-0.7		0.0	2.2	0.0	0.0	27.1
Motor & Pump P 312	Leq,D	101.5	2	217.61	-57.7	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	27.6
Motor & Pump P 313	Leq,D	101.5	2	219.38	-57.8	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	27.6
Motor & Pump P 315	Leq,D	102.9	2	225.84	-58.1	4.8	-20.1	-0.8		0.0	0.0	0.0	0.0	28.8
Motor & Pump P 316	Leq,D	102.9	2	227.82	-58.1	4.8	-20.1	-0.8		0.0	0.0	0.0	0.0	28.7
Motor & Pump P 317	Leq,D	102.9	2	229.78	-58.2	4.8	-20.0	-0.8		0.0	0.0	0.0	0.0	28.6
Motor & Pump P 318	Leq,D	100.2	1	223.79	-58.0	5.0	-20.3	-0.8		0.0	0.0	0.0	0.0	26.1
Motor & Pump P 319	Leq,D	100.2	1	222.31	-57.9	5.0	-20.3	-0.8		0.0	0.0	0.0	0.0	26.2
Motor & Pump P 327	Leq,D	111.2	3	167.96	-55.5	4.6	-22.5	-1.1		0.0	1.5	0.0	0.0	38.3
Motor & Pump P 328	Leq,D	109.9	5	181.37	-56.2	4.4	-20.6	-0.7		0.0	2.1	0.0	0.0	39.0
Motor & Pump P 329	Leq,D	110.2	5	178.53	-56.0	4.4	-21.2	-0.7		0.0	1.9	0.0	0.0	38.5
Motor & Pump P 451	Leq,D	93.7		256.05	-59.2	3.4	-23.2	-1.9		0.0	2.3	0.0	0.0	15.0
Motor & Pump P 453	Leq,D	93.7		267.73	-59.5	3.5	-23.7	-2.2		0.0	2.1	0.0	0.0	13.8
Motor & Pump P 454	Leq,D	93.7		255.63	-59.1	3.4	-22.2	-1.6		0.0	8.4	0.0	0.0	22.5
Motor & Pump P 457	Leq,D	93.7		269.26	-59.6	3.5	-23.7	-2.2		0.0	2.1	0.0	0.0	13.8
Motor & Pump P 458	Leq,D	93.7		256.05	-59.2	3.4	-23.3	-2.0		0.0	2.2	0.0	0.0	14.9
Motor & Pump P 459	Leq,D	93.7		254.63	-59.1	3.4	-22.2	-1.6		0.0	8.4	0.0	0.0	22.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		227.59	-58.1	3.4	-22.0	-1.4		0.0	14.0	0.0	0.0	32.0
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		225.90	-58.1	3.4	-22.0	-1.4		0.0	14.0	0.0	0.0	32.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		193.37	-56.7	3.2	-22.7	-1.4	-0.07	0.0	10.0	0.0	0.0	27.6
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		192.22	-56.7	3.2	-22.8	-1.4	-0.05	0.0	10.2	0.0	0.0	27.9
Motor & Pump P 1601 A	Leq,D	96.3	2	230.40	-58.2	3.1	-21.3	-1.4		0.0	16.6	0.0	0.0	35.2
Motor & Pump P 1601 B	Leq,D	96.3	2	230.69	-58.3	3.1	-22.6	-1.8		0.0	14.6	0.0	0.0	31.3
Motor & Pump P 1602 A	Leq,D	96.3	2	231.11	-58.3	3.1	-22.9	-1.8		0.0	15.7	0.0	0.0	32.1
Motor & Pump P 1602 B	Leq,D	96.5	2	231.41	-58.3	3.1	-21.2	-1.4		0.0	17.3	0.0	0.0	36.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	227.74	-58.1	3.4	-22.4	-1.5	-0.79	0.0	12.8	0.0	0.0	30.1
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	222.89	-58.0	3.4	-22.4	-1.4	-0.69	0.0	12.8	0.0	0.0	30.3
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	220.45	-57.9	3.4	-22.4	-1.4	-0.64	0.0	12.7	0.0	0.0	30.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	224.47	-58.0	3.4	-22.6	-1.5		0.0	12.0	0.0	0.0	30.0
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	222.67	-57.9	3.4	-22.7	-1.5		0.0	11.8	0.0	0.0	29.6
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	216.16	-57.7	3.4	-24.2	-2.0	-0.19	0.0	2.2	0.0	0.0	17.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	215.85	-57.7	3.4	-22.8	-1.5	-0.54	0.0	12.0	0.0	0.0	29.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	215.45	-57.7	3.3	-22.4	-1.4	-0.53	0.0	12.7	0.0	0.0	30.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	215.66	-57.7	3.4	-22.5	-1.4	-0.53	0.0	11.8	0.0	0.0	29.4
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	174.87	-55.8	2.4	-16.8	-0.7		0.0	10.8	0.0	0.0	44.0
P-2 A/B	Leq,D	98.5		529.81	-65.5	3.7	-24.6	-2.5		0.0	5.6	0.0	0.0	15.2
P-50 A/B	Leq,D	98.1		488.49	-64.8	3.7	-24.6	-2.4	-0.38	0.0	2.9	0.0	0.0	12.6
P-51 A/B	Leq,D	98.1		491.74	-64.8	3.7	-23.0	-1.9	-0.73	0.0	3.8	0.0	0.0	15.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-060 A/B	Leq,D	98.1		480.37	-64.6	3.7	-23.1	-1.9	-0.33	0.0	10.3	0.0	0.0	22.1
P-63	Leq,D	98.5		517.17	-65.3	3.7	-20.6	-1.8	-0.79	0.0	9.7	0.0	0.0	23.5
P-70 A/B	Leq,D	98.1		483.97	-64.7	3.7	-24.7	-2.4	-0.50	0.0	3.1	0.0	0.0	12.6
P-73 A/B	Leq,D	98.5		526.87	-65.4	3.7	-24.7	-2.6		0.0	3.0	0.0	0.0	12.5
P-251 A/B	Leq,D	98.2		396.37	-63.0	3.7	-23.6	-1.7	-0.47	0.0	3.0	0.0	0.0	16.2
P-252 A/B	Leq,D	98.2		388.21	-62.8	3.6	-24.5	-2.0	-0.22	0.0	3.5	0.0	0.0	15.9
P-253	Leq,D	98.2		391.74	-62.9	3.6	-24.5	-2.0	-0.22	0.0	8.8	0.0	0.0	21.1
P-254 A/B	Leq,D	98.2		401.34	-63.1	3.7	-24.5	-2.0	-0.47	0.0	4.0	0.0	0.0	15.8
P-255 A/B	Leq,D	98.2		399.78	-63.0	3.7	-23.5	-1.7	-0.47	0.0	3.0	0.0	0.0	16.1
P-255 A/B	Leq,D	98.2		393.16	-62.9	3.7	-23.6	-1.7	-0.47	0.0	7.8	0.0	0.0	20.9
P-256 A/B	Leq,D	98.2		397.80	-63.0	3.7	-23.6	-1.7	-0.47	0.0	2.9	0.0	0.0	16.0
P-259 A/B	Leq,D	98.2		394.79	-62.9	3.7	-23.6	-1.7	-0.47	0.0	7.8	0.0	0.0	21.0
P-260	Leq,D	99.1		379.65	-62.6	3.6	-23.8	-1.7	-0.21	0.0	4.6	0.0	0.0	19.0
P-261 A/B	Leq,D	98.0		370.66	-62.4	3.6	-23.7	-1.6	-0.21	0.0	4.4	0.0	0.0	18.1
P-262 A/B	Leq,D	99.1		376.19	-62.5	3.6	-23.7	-1.7	-0.21	0.0	4.2	0.0	0.0	18.8
P-263 A/B	Leq,D	99.4		377.65	-62.5	3.6	-23.8	-1.7	-0.21	0.0	4.3	0.0	0.0	19.1
P-270 A/B	Leq,D	98.5		420.88	-63.5	3.7	-24.5	-2.0	-0.18	0.0	4.7	0.0	0.0	16.7
P-271 A/B	Leq,D	98.2		405.92	-63.2	3.7	-24.5	-2.0	-0.48	0.0	9.4	0.0	0.0	21.1
P-272 A/B	Leq,D	98.2		403.67	-63.1	3.7	-24.5	-2.0	-0.48	0.0	9.2	0.0	0.0	21.0
P-273 A/B	Leq,D	98.5		419.05	-63.4	3.7	-23.4	-1.7	-0.03	0.0	3.8	0.0	0.0	17.4
P-275 A/B/C	Leq,D	98.2		396.92	-63.0	3.6	-23.4	-1.7	-0.21	0.0	8.2	0.0	0.0	21.9
P-305	Leq,D	99.3		477.72	-64.6	3.7	-23.7	-2.0	-0.49	0.0	6.0	0.0	0.0	18.3
P-306	Leq,D	100.8		482.87	-64.7	3.7	-23.7	-2.0	-1.02	0.0	3.4	0.0	0.0	16.5
P-309	Leq,D	99.3		478.88	-64.6	3.7	-23.7	-2.0	-0.60	0.0	3.5	0.0	0.0	15.7
P-328	Leq,D	100.8		486.02	-64.7	3.7	-23.3	-1.9	-1.41	0.0	5.7	0.0	0.0	18.9
P-329	Leq,D	100.8		484.37	-64.7	3.7	-23.7	-2.0	-1.26	0.0	6.0	0.0	0.0	18.9
P-353	Leq,D	98.5		466.72	-64.4	3.5	-23.0	-1.9	-0.73	0.0	2.8	0.0	0.0	14.8
P-358 A/B	Leq,D	99.4		457.10	-64.2	3.7	-24.3	-2.1	-0.75	0.0	8.3	0.0	0.0	20.0
P-359 A/B	Leq,D	99.4		461.08	-64.3	3.7	-24.3	-2.1	-0.88	0.0	3.7	0.0	0.0	15.2
P-360 A/B	Leq,D	99.4		468.80	-64.4	3.7	-24.3	-2.2	-1.06	0.0	3.4	0.0	0.0	14.5
P-361A	Leq,D	98.1		464.00	-64.3	3.5	-24.2	-2.2	-0.28	0.0	11.7	0.0	0.0	22.3
P-371 A/B	Leq,D	98.0		275.84	-59.8	3.1	-23.4	-1.3		0.0	3.4	0.0	0.0	20.0
P-373 A/B	Leq,D	98.0		279.74	-59.9	3.1	-23.7	-1.3		0.0	4.7	0.0	0.0	20.9
P-374 A/B	Leq,D	98.0		278.63	-59.9	3.1	-23.7	-1.3		0.0	4.6	0.0	0.0	20.9
P-375 A/B	Leq,D	98.0		276.22	-59.8	3.1	-23.6	-1.3		0.0	4.6	0.0	0.0	21.1
P-376	Leq,D	98.0		278.01	-59.9	3.1	-23.6	-1.3		0.0	4.6	0.0	0.0	20.9
P-376 A/B	Leq,D	98.0		280.84	-60.0	3.1	-23.7	-1.3		0.0	4.7	0.0	0.0	20.9
P-377	Leq,D	98.0		277.33	-59.9	3.1	-23.6	-1.3		0.0	4.6	0.0	0.0	20.9
P-1101 A	Leq,D	98.9		509.08	-65.1	3.5	-24.2	-2.4		0.0	5.5	0.0	0.0	16.2
P-1103	Leq,D	98.9		508.07	-65.1	3.5	-24.2	-2.4		0.0	5.3	0.0	0.0	16.1
P-1105 A/B/C	Leq,D	98.9		512.66	-65.2	3.5	-23.5	-2.1	-0.30	0.0	5.4	0.0	0.0	16.7
P-1800	Leq,D	98.9		561.73	-66.0	3.8	-24.7	-2.6		0.0	10.8	0.0	0.0	20.2
P-1801	Leq,D	98.9		592.37	-66.4	3.8	-24.9	-2.9		0.0	5.2	0.0	0.0	13.6
P-1802	Leq,D	98.9		590.52	-66.4	3.8	-25.0	-2.9		0.0	3.2	0.0	0.0	11.6
P-1803	Leq,D	99.1		462.83	-64.3	3.6	-24.9	-2.3		0.0	7.8	0.0	0.0	19.1
P-1804	Leq,D	99.1		483.17	-64.7	3.7	-24.5	-2.3		0.0	3.4	0.0	0.0	14.7
P-1805	Leq,D	99.1		485.28	-64.7	3.7	-24.5	-2.2		0.0	7.9	0.0	0.0	19.3
P-1806	Leq,D	99.1		446.73	-64.0	3.6	-24.6	-2.2		0.0	10.9	0.0	0.0	22.9
P-1809 A	Leq,D	98.9		565.90	-66.0	3.8	-23.5	-2.2		0.0	5.0	0.0	0.0	15.9
P-1810 A/B/C	Leq,D	99.0		478.48	-64.6	3.7	-24.9	-2.4		0.0	2.0	0.0	0.0	12.8
P-1811 A/B	Leq,D	99.1		451.33	-64.1	3.6	-23.1	-1.8		0.0	9.4	0.0	0.0	23.1
P-1811 A/B	Leq,D	99.1		487.99	-64.8	3.7	-24.8	-2.4		0.0	2.0	0.0	0.0	12.8
P-1847 A/B	Leq,D	99.4		409.32	-63.2	3.5	-23.8	-1.8		0.0	0.0	0.0	0.0	14.1
P-1849 A/B	Leq,D	99.4		414.29	-63.3	3.5	-23.7	-1.8		0.0	0.0	0.0	0.0	14.1
P-1853	Leq,D	99.1		442.99	-63.9	3.7	-23.4	-1.8	-0.81	0.0	3.3	0.0	0.0	16.1
Piping Furnace Tanks	Leq,D	87.1	72	273.52	-59.7	2.3	-24.0	-6.7		0.0	5.8	0.0	0.0	4.8
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	280.60	-60.0	2.5	-23.9	-6.7		0.0	5.1	0.0	0.0	15.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	244.13	-58.7	2.8	-24.9	-2.3		0.0	3.2	0.0	0.0	34.5
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	246.58	-58.8	3.0	-24.9	-7.2		0.0	5.6	0.0	0.0	32.8
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	493.27	-64.9	2.4	-23.8	-2.2		0.0	0.2	0.0	0.0	22.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	462.24	-64.3	2.2	-20.1	-1.6		0.0	0.0	0.0	0.0	27.4
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	445.79	-64.0	2.2	-19.8	-1.6		0.0	0.1	0.0	0.0	21.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	487.37	-64.7	2.3	-24.1	-2.3		0.0	0.2	0.0	0.0	22.5
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	456.77	-64.2	2.2	-24.2	-2.1		0.0	0.3	0.0	0.0	16.1
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	446.62	-64.0	2.2	-20.0	-1.6		0.0	0.8	0.0	0.0	21.1
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	447.78	-64.0	2.2	-19.7	-1.5		0.0	0.0	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	465.07	-64.3	2.3	-23.0	-2.0		0.0	1.4	0.0	0.0	20.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	472.83	-64.5	1.0	-19.8	-1.5		0.0	0.0	0.0	0.0	28.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	252.15	-59.0	1.7	-23.3	-2.2		0.0	7.1	0.0	0.0	4.9
PSA Skid Additional Piping w NC	Leq,D	116.6	57	242.97	-58.7	2.8	-24.9	-2.3		0.0	3.1	0.0	0.0	36.5
Reformer-Burner Reformer East	Leq,D	97.3	269	266.18	-59.5	1.0	-18.9	-1.3		0.0	12.4	0.0	0.0	34.1
Reformer-Burner Reformer North	Leq,D	95.9	192	266.54	-59.5	1.1	-20.4	-1.3		0.0	11.9	0.0	0.0	27.6
Reformer-Burner Reformer South	Leq,D	95.8	191	277.17	-59.8	1.0	-22.8	-1.8		0.0	6.5	0.0	0.0	21.9
Reformer-Burner Reformer West	Leq,D	97.3	268	277.36	-59.9	0.9	-23.4	-1.9		0.0	3.1	0.0	0.0	19.1
RFG A from battery to process	Leq,D	99.4	87	282.89	-60.0	2.5	-23.8	-6.5		0.0	5.3	0.0	0.0	16.9
RFG A from battery to process w NC	Leq,D	115.2	42	244.03	-58.7	2.9	-24.9	-7.2		0.0	3.8	0.0	0.0	31.1
Stack Noise	Leq,D	108.4		296.23	-60.4	0.9	-9.9	-0.4		-4.5	2.4	0.0	0.0	36.4
Steam Turbine-Facade 01	Leq,D	99.6	29	258.49	-59.2	3.5	-24.5	-5.1		0.0	2.3	0.0	0.0	16.5
Steam Turbine-Facade 02	Leq,D	96.2	13	258.14	-59.2	3.5	-24.6	-5.2		0.0	2.3	0.0	0.0	12.9
Steam Turbine-Facade 03	Leq,D	99.6	29	255.00	-59.1	3.4	-24.5	-5.1		0.0	2.3	0.0	0.0	16.6
Steam Turbine-Facade 04	Leq,D	96.2	13	255.37	-59.1	3.4	-24.5	-5.0		0.0	2.4	0.0	0.0	13.5
Steam Turbine-Roof 01	Leq,D	99.7	30	256.74	-59.2	2.8	-24.3	-4.8		0.0	2.5	0.0	0.0	16.7
Tank Farm Pump 1	Leq,D	99.0	3	385.68	-62.7	3.7	-24.0	-2.5		0.0	0.0	0.0	0.0	13.4
Tank Farm Pump 2	Leq,D	99.0	3	402.03	-63.1	3.7	-22.9	-2.2		0.0	0.0	0.0	0.0	14.5
Tank Farm Pump 3	Leq,D	99.0	3	406.81	-63.2	3.7	-22.8	-2.2		0.0	0.4	0.0	0.0	15.0
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	323.01	-61.2	4.1	-8.0	-3.1	-0.01	0.0	0.2	-11.8	0.0	32.7
XF-1502 Splitter Area 1	Leq,D	104.5		219.28	-57.8	1.4	-15.7	-1.0	-0.51	-3.0	8.5	0.0	0.0	36.4
XF-1502 Splitter Area 2	Leq,D	104.5		223.01	-58.0	1.4	-15.7	-1.0	-0.58	-3.0	8.4	0.0	0.0	36.1
XF-1504 Splitter Area 1	Leq,D	104.5		219.84	-57.8	1.4	-20.6	-1.1	0.00	-3.3	0.8	0.0	0.0	23.8
XF-1504 Splitter Area 2	Leq,D	104.5		223.55	-58.0	1.4	-15.4	-1.0	-0.58	-3.0	0.3	0.0	0.0	28.1
XF 251, 250, 271, 270	Leq,D	101.1	128	401.42	-63.1	1.2	-17.7	-0.7		-1.2	3.7	0.0	0.0	23.3
XF 260, 261A, 261 B	Leq,D	99.9	97	379.66	-62.6	1.1	-17.2	-0.6	0.00	-1.2	2.5	0.0	0.0	21.8
XF 304, XF 321	Leq,D	110.5	56	193.34	-56.7	2.7	-16.4	-0.3	-0.28	-1.5	0.0	0.0	0.0	38.0
XF 313, XF 314	Leq,D	113.0	18	163.51	-55.3	2.8	-19.5	-0.4		-2.6	0.1	0.0	0.0	38.1
XF 335-1, XF 335-2	Leq,D	113.4	54	181.20	-56.2	2.7	-16.8	-0.4	-0.23	-1.7	0.7	0.0	0.0	41.6
XF 353A/B	Leq,D	95.4	35	468.06	-64.4	1.4	-17.7	-0.8	-0.01	-1.2	0.7	0.0	0.0	13.5
XF 353A/B	Leq,D	95.4	35	443.34	-63.9	1.3	-17.8	-0.7		-1.2	0.6	0.0	0.0	13.7
XF 354A/B	Leq,D	95.4	35	471.67	-64.5	1.5	-17.0	-0.7	0.00	-1.2	2.0	0.0	0.0	15.6
XF 503	Leq,D	113.0	21	240.96	-58.6	2.4	-18.4	-1.1	-0.14	-2.9	0.0	0.0	0.0	34.3
XF - 1601	Leq,D	96.6		232.42	-58.3	0.4	-16.8	-0.4		-1.1	0.3	0.0	0.0	20.7
XF - 1602	Leq,D	96.6		233.60	-58.4	0.4	-11.2	-0.4		-1.0	6.2	0.0	0.0	32.3
XF Module 1510	Leq,D	108.3		226.16	-58.1	1.4	-15.5	-1.0	-0.43	-3.0	8.2	0.0	0.0	39.9
XF Module 1519	Leq,D	109.0		220.82	-57.9	1.4	-15.5	-1.0	-0.43	-3.0	8.2	0.0	0.0	40.7
xxxx xxxx xxxx xxxx	Leq,D		228								3.9			3.1
xxxx xxxx xxxx xxxx	Leq,D		520								4.5			20.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
xxxx xxxx xxxx xxxx	Leq,D		1341								11.0			26.7
xxxx xxxx xxxx xxxx	Leq,D		450								15.6			14.6
Receiver N-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 68.3 dB(A)		Ld 7-19 dB(A)		Leq,N 68.3 dB(A)		Le 19-22 dB(A)		CNEL 75.0 dB(A)		Lmax day hr	dB(A) Ld
ID Fan Motor	Leq,D	104.4	2	227.09	-58.1	4.3	-21.9	-1.4		0.0	0.9	0.0	0.0	28.2
18-1855 A/B	Leq,D	98.8		282.95	-60.0	5.0	-21.7	-1.1		0.0	0.0	0.0	0.0	21.0
18-1856 A/B	Leq,D	98.8		287.58	-60.2	5.0	-22.8	-1.1		0.0	0.5	0.0	0.0	20.2
18-1857 A/B	Leq,D	98.8		278.54	-59.9	5.0	-20.4	-0.9		0.0	0.0	0.0	0.0	22.5
18-1858 A/B	Leq,D	98.8		275.64	-59.8	4.7	-20.6	-0.9		0.0	0.0	0.0	0.0	22.2
18-PK 1802 Air Compressor Package	Leq,D	103.1		301.79	-60.6	5.0	-20.1	-0.6		0.0	0.0	0.0	0.0	26.8
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	253.47	-59.1	4.9	-7.7	-2.1	-0.16	0.0	0.1	-2.7	0.0	42.3
Air Compressor C 1	Leq,D	110.0	5	85.65	-49.6	3.9	-16.8	-0.2		0.0	14.6	0.0	0.0	61.9
Air Compressor Pump	Leq,D	100.3		250.52	-59.0	4.9	-20.0	-1.5		0.0	0.0	0.0	0.0	24.8
Blower F 401	Leq,D	113.0		194.97	-56.8	4.6	-2.0	-0.3	-2.47	0.0	0.0	0.0	0.0	56.0
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	430.08	-63.7	5.0	-19.4	-0.9	-1.04	0.0	0.3	0.0	0.0	18.8
Boiler Feed Water Pump A	Leq,D	97.1	3	269.68	-59.6	4.8	-21.1	-1.0		0.0	0.4	0.0	0.0	20.7
Boiler Feed Water Pump B	Leq,D	97.1	3	272.18	-59.7	4.8	-21.0	-1.0		0.0	0.3	0.0	0.0	20.5
C370 A Motor	Leq,D	103.6	3	211.76	-57.5	3.7	-15.4	-0.7		0.0	0.5	0.0	0.0	34.2
C370 B Motor	Leq,D	108.6	3	217.66	-57.7	3.8	-18.2	-0.8		0.0	2.1	0.0	0.0	37.7
C370A	Leq,D	103.8	5	208.09	-57.4	3.8	-16.7	-0.7		0.0	0.7	0.0	0.0	33.5
C370B	Leq,D	103.8	5	214.09	-57.6	3.8	-19.0	-0.8		0.0	3.4	0.0	0.0	33.7
C-270 A	Leq,D	106.3	6	364.83	-62.2	4.7	-17.4	-1.0	-0.37	0.0	0.6	0.0	0.0	30.5
C-270 B	Leq,D	106.3	6	361.86	-62.2	4.7	-17.0	-1.0	-0.36	0.0	0.4	0.0	0.0	30.8
C-270 C	Leq,D	106.3	6	358.93	-62.1	4.7	-16.9	-1.0	-0.43	0.0	0.1	0.0	0.0	30.6
C-301 Compressor	Leq,D	106.8	3	356.47	-62.0	4.6	-16.1	-1.2	-0.16	0.0	0.0	0.0	0.0	31.9
C-301 Motor	Leq,D	106.8	4	353.87	-62.0	4.6	-17.9	-1.9	-0.19	0.0	0.0	0.0	0.0	29.5
C-351 Compressor	Leq,D	106.8	4	371.95	-62.4	4.7	-17.8	-1.2	-0.63	0.0	0.0	0.0	0.0	29.5
C-351 Motor	Leq,D	106.8	5	375.57	-62.5	4.4	-18.8	-2.0	-0.63	0.0	0.5	0.0	0.0	27.9
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	240.30	-58.6	5.0	-6.1	-0.5	-0.35	0.0	0.0	-33.5	0.0	40.6
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	158.41	-55.0	3.8	-17.2	-0.4		4.6	0.2	0.0	0.0	40.8
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	152.40	-54.7	3.7	-9.4	-0.4	-0.04	0.0	0.7	0.0	0.0	40.4
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	153.19	-54.7	3.6	-4.9	-0.6	-0.54	0.4	0.4	0.0	0.0	50.2
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	163.64	-55.3	3.8	-18.8	-0.4	-0.52	-7.8	0.1	0.0	0.0	31.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	155.52	-54.8	3.7	-19.1	-0.4	-0.02	-7.8	0.1	0.0	0.0	25.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	161.92	-55.2	3.6	-17.4	-0.5	-0.79	-5.6	0.0	0.0	0.0	24.6
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	153.56	-54.7	3.5	-17.3	-0.5	-0.23	-3.8	1.4	0.0	0.0	26.2
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	151.42	-54.6	3.6	-2.5	-0.8	-0.01	3.8	0.0	0.0	0.0	47.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	161.79	-55.2	3.3	-16.3	-0.5		-5.3	4.7	0.0	0.0	31.3
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	156.27	-54.9	3.3	-6.5	-0.6	-0.35	4.4	0.2	0.0	0.0	46.3
Cooling Tower M 512	Leq,D	95.7		158.77	-55.0	4.4	-19.1	-0.6	-0.58	0.0	0.1	0.0	0.0	24.9
Cooling Tower M 513	Leq,D	95.7		158.66	-55.0	4.3	-18.1	-0.6	-0.44	0.0	0.1	0.0	0.0	26.0
Cooling Tower M 514	Leq,D	95.7		159.17	-55.0	4.4	-19.5	-0.6	-0.71	0.0	0.1	0.0	0.0	24.4
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	244.82	-58.8	2.5	-17.0	-0.4		-1.4	0.0	0.0	0.0	20.6
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	212.75	-57.5	4.0	-14.6	-0.1		0.0	0.0	0.0	0.0	27.2
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	210.44	-57.5	4.0	-11.7	-0.1		0.0	0.2	0.0	0.0	28.2
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	211.72	-57.5	3.1	-10.6	-0.1		0.0	0.0	0.0	0.0	28.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	212.94	-57.6	4.0	-13.3	-0.1		0.0	0.0	0.0	0.0	26.2

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	210.63	-57.5	4.0	-9.5	-0.1		0.0	0.0	0.0	0.0	32.3
FD Motor	Leq,D	103.3	2	213.68	-57.6	4.2	-24.2	-2.1		0.0	1.0	0.0	0.0	24.7
Feed Compressor -B Motor	Leq,D	103.8	5	245.16	-58.8	4.0	-20.9	-1.5		0.0	4.3	0.0	0.0	30.9
Feed Compressor-A Compressor	Leq,D	104.0	5	232.02	-58.3	4.1	-19.4	-0.8		0.0	0.0	0.0	0.0	29.5
Feed Compressor-A Motor	Leq,D	103.8	6	236.33	-58.5	3.9	-20.8	-1.4		0.0	0.1	0.0	0.0	27.2
Feed Compressor-B Compressor	Leq,D	104.0	7	240.56	-58.6	4.1	-19.6	-0.8		0.0	4.6	0.0	0.0	33.7
H2S Compressor 18-C-271	Leq,D	105.3	6	119.88	-52.6	3.5	-13.7	-0.4		0.0	9.8	0.0	0.0	51.9
Heater # 5-Heater	Leq,D	91.1	13	426.02	-63.6	5.0	-21.1	-1.1	-1.04	0.0	0.1	0.0	0.0	12.4
Heater # 5-Heater	Leq,D	91.1	13	422.97	-63.5	5.0	-20.7	-1.1	-1.01	0.0	0.1	0.0	0.0	12.9
Heater # 5-Heater	Leq,D	91.1	13	429.04	-63.6	5.0	-21.1	-1.1	-1.16	0.0	2.1	0.0	0.0	14.2
Hydro Heater H-402	Leq,D	98.1		156.60	-54.9	4.5	-6.8	-0.3		0.0	0.1	0.0	0.0	40.7
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	229.08	-58.2	4.5	-15.2	0.0		0.0	0.0	0.0	0.0	18.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	230.49	-58.2	4.5	-15.1	0.0		0.0	0.0	0.0	0.0	18.4
ID Fan-ID Fan - North	Leq,D	92.2	8	227.67	-58.1	4.5	-11.3	0.0		0.0	0.0	0.0	0.0	27.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	230.27	-58.2	4.5	-13.0	0.0		0.0	0.0	0.0	0.0	24.6
ID Fan-ID Fan - South	Leq,D	92.3	9	229.58	-58.2	4.5	-15.3	0.0		0.0	0.0	0.0	0.0	23.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	231.17	-58.3	4.5	-14.8	0.0		0.0	0.0	0.0	0.0	22.7
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	229.20	-58.2	3.9	-11.8	0.0		0.0	0.0	0.0	0.0	27.8
Motor & Pump P 56A/B	Leq,D	93.7		140.96	-54.0	4.4	-7.0	-0.7	-1.15	0.0	0.2	0.0	0.0	35.5
Motor & Pump P 120/121	Leq,D	96.2	2	98.06	-50.8	3.9	-5.2	-0.5		0.0	5.7	0.0	0.0	49.4
Motor & Pump P 211/212	Leq,D	93.7		168.15	-55.5	4.8	-13.2	-0.7	-0.57	0.0	0.1	0.0	0.0	28.6
Motor & Pump P 215/214	Leq,D	94.6		163.19	-55.2	4.8	-15.0	-0.7	-0.46	0.0	2.0	0.0	0.0	30.0
Motor & Pump P 216	Leq,D	98.3		168.98	-55.5	4.6	-11.7	-0.7	-0.57	0.0	0.0	0.0	0.0	34.4
Motor & Pump P 217/218	Leq,D	93.7		166.32	-55.4	5.2	-14.9	-0.7	-0.53	0.0	0.5	0.0	0.0	27.7
Motor & Pump P 300	Leq,D	97.1	2	99.18	-50.9	4.1	-5.0	-0.4		0.0	0.4	0.0	0.0	45.3
Motor & Pump P 301	Leq,D	102.1	2	100.78	-51.1	4.1	-2.0	-0.5		0.0	0.1	0.0	0.0	52.8
Motor & Pump P 302	Leq,D	97.1	2	97.48	-50.8	4.0	-8.4	-0.3		0.0	0.8	0.0	0.0	42.4
Motor & Pump P 303	Leq,D	97.1	2	96.10	-50.6	3.9	-10.1	-0.3		0.0	1.3	0.0	0.0	41.2
Motor & Pump P 305	Leq,D	97.5	2	94.69	-50.5	3.8	-11.2	-0.3		0.0	1.6	0.0	0.0	40.9
Motor & Pump P 306	Leq,D	112.6	4	86.13	-49.7	3.2	-15.5	-0.4		0.0	5.0	0.0	0.0	55.3
Motor & Pump P 307	Leq,D	102.1	2	105.43	-51.5	4.2	-1.6	-0.6		0.0	0.0	0.0	0.0	52.7
Motor & Pump P 309	Leq,D	97.5	2	93.29	-50.4	3.8	-11.8	-0.3		0.0	1.7	0.0	0.0	40.5
Motor & Pump P 312	Leq,D	101.5	2	126.60	-53.0	4.7	-12.8	-0.4		0.0	0.1	0.0	0.0	40.0
Motor & Pump P 313	Leq,D	101.5	2	128.34	-53.2	4.7	-13.1	-0.4		0.0	0.1	0.0	0.0	39.7
Motor & Pump P 315	Leq,D	102.9	2	134.70	-53.6	4.6	-13.3	-0.4		0.0	0.0	0.0	0.0	40.2
Motor & Pump P 316	Leq,D	102.9	2	136.64	-53.7	4.6	-13.4	-0.4		0.0	0.0	0.0	0.0	40.0
Motor & Pump P 317	Leq,D	102.9	2	138.55	-53.8	4.5	-13.2	-0.4		0.0	0.0	0.0	0.0	39.9
Motor & Pump P 318	Leq,D	100.2	1	132.64	-53.4	4.9	-13.7	-0.4		0.0	0.0	0.0	0.0	37.5
Motor & Pump P 319	Leq,D	100.2	1	131.19	-53.3	4.9	-13.6	-0.4		0.0	0.2	0.0	0.0	37.9
Motor & Pump P 327	Leq,D	111.2	3	79.08	-49.0	3.4	-17.4	-0.5		0.0	3.5	0.0	0.0	51.4
Motor & Pump P 328	Leq,D	109.9	5	91.54	-50.2	3.3	-11.5	-0.3		0.0	2.4	0.0	0.0	53.6
Motor & Pump P 329	Leq,D	110.2	5	88.84	-50.0	3.3	-13.8	-0.3		0.0	3.2	0.0	0.0	52.5
Motor & Pump P 451	Leq,D	93.7		163.51	-55.3	4.6	-14.3	-0.8		0.0	0.0	0.0	0.0	27.9
Motor & Pump P 453	Leq,D	93.7		175.22	-55.9	4.7	-15.6	-0.9		0.0	0.1	0.0	0.0	26.1
Motor & Pump P 454	Leq,D	93.7		163.08	-55.2	4.6	-9.0	-0.8		0.0	0.6	0.0	0.0	33.8
Motor & Pump P 457	Leq,D	93.7		176.75	-55.9	4.7	-15.3	-0.9		0.0	0.3	0.0	0.0	26.5
Motor & Pump P 458	Leq,D	93.7		163.52	-55.3	4.6	-15.7	-0.8		0.0	0.0	0.0	0.0	26.5
Motor & Pump P 459	Leq,D	93.7		162.08	-55.2	4.6	-9.1	-0.8		0.0	0.6	0.0	0.0	33.8
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		135.53	-53.6	4.4	0.0	-1.3		0.0	0.1	0.0	0.0	45.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		133.85	-53.5	4.3	0.0	-1.3		0.0	0.1	0.0	0.0	45.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		102.49	-51.2	3.9	-9.7	-0.5	-0.08	0.0	1.2	0.0	0.0	39.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		101.36	-51.1	3.9	-10.1	-0.5	-0.05	0.0	0.8	0.0	0.0	38.3
Motor & Pump P 1601 A	Leq,D	96.3	2	141.00	-54.0	3.9	-9.2	-0.8	-0.07	0.0	1.4	0.0	0.0	37.7
Motor & Pump P 1601 B	Leq,D	96.3	2	141.50	-54.0	3.9	-17.1	-0.7		0.0	6.8	0.0	0.0	35.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1602 A	Leq,D	96.3	2	142.07	-54.0	3.9	-19.2	-0.8		0.0	5.5	0.0	0.0	31.6
Motor & Pump P 1602 B	Leq,D	96.5	2	142.57	-54.1	3.9	-9.3	-0.8		0.0	2.0	0.0	0.0	38.3
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	136.33	-53.7	4.4	0.0	-1.3	-0.65	0.0	1.2	0.0	0.0	46.6
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	131.53	-53.4	4.3	0.0	-1.3	-0.62	0.0	0.3	0.0	0.0	46.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	129.13	-53.2	4.3	0.0	-1.3	-0.61	0.0	0.1	0.0	0.0	45.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	132.46	-53.4	4.3	-0.1	-1.3		0.0	0.1	0.0	0.0	46.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	130.68	-53.3	4.3	-0.3	-1.3		0.0	0.1	0.0	0.0	46.2
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	125.61	-53.0	4.3	-14.2	-0.7	-0.20	0.0	0.0	0.0	0.0	32.6
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	125.05	-52.9	4.3	-7.3	-0.7	-0.57	0.0	4.4	0.0	0.0	43.5
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	124.24	-52.9	4.2	0.0	-1.3	-0.54	0.0	0.1	0.0	0.0	45.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	124.62	-52.9	4.3	-10.8	-0.6	-0.59	0.0	7.1	0.0	0.0	42.7
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	82.38	-49.3	3.0	0.0	-0.7		0.0	1.3	0.0	0.0	58.4
P-2 A/B	Leq,D	98.5		463.75	-64.3	5.3	-24.1	-1.9		0.0	0.7	0.0	0.0	14.2
P-50 A/B	Leq,D	98.1		420.89	-63.5	5.3	-24.4	-1.8	-0.83	0.0	7.6	0.0	0.0	20.5
P-51 A/B	Leq,D	98.1		423.74	-63.5	5.3	-24.5	-1.9	-0.23	0.0	0.0	0.0	0.0	13.3
P-060 A/B	Leq,D	98.1		413.77	-63.3	5.3	-22.5	-1.4	-0.49	0.0	6.0	0.0	0.0	21.7
P-63	Leq,D	98.5		447.40	-64.0	5.4	-21.3	-1.4	-1.59	0.0	0.0	0.0	0.0	15.5
P-70 A/B	Leq,D	98.1		416.91	-63.4	5.3	-24.5	-1.8	-0.68	0.0	0.3	0.0	0.0	13.4
P-73 A/B	Leq,D	98.5		460.40	-64.3	5.3	-24.3	-2.0		0.0	0.7	0.0	0.0	14.1
P-251 A/B	Leq,D	98.2		315.53	-61.0	5.3	-20.2	-1.0	-0.53	0.0	0.0	0.0	0.0	20.8
P-252 A/B	Leq,D	98.2		308.49	-60.8	5.3	-19.9	-1.0	-0.24	0.0	0.0	0.0	0.0	21.6
P-253	Leq,D	98.2		312.96	-60.9	5.3	-19.4	-1.0	-0.25	0.0	0.0	0.0	0.0	22.0
P-254 A/B	Leq,D	98.2		321.83	-61.1	5.3	-19.1	-1.0	-0.53	0.0	0.0	0.0	0.0	21.7
P-255 A/B	Leq,D	98.2		319.87	-61.1	5.3	-19.0	-1.0	-0.53	0.0	0.0	0.0	0.0	21.9
P-255 A/B	Leq,D	98.2		311.50	-60.9	5.3	-19.8	-1.0	-0.52	0.0	0.0	0.0	0.0	21.3
P-256 A/B	Leq,D	98.2		317.37	-61.0	5.3	-19.4	-1.0	-0.53	0.0	0.0	0.0	0.0	21.6
P-259 A/B	Leq,D	98.2		313.56	-60.9	5.3	-20.1	-1.0	-0.52	0.0	0.0	0.0	0.0	21.0
P-260	Leq,D	99.1		297.62	-60.5	5.3	-20.4	-1.0	-0.24	0.0	0.0	0.0	0.0	22.3
P-261 A/B	Leq,D	98.0		285.94	-60.1	5.3	-15.6	-0.9	-0.23	0.0	0.0	0.0	0.0	26.4
P-262 A/B	Leq,D	99.1		293.17	-60.3	5.3	-14.4	-0.9	-0.23	0.0	0.0	0.0	0.0	28.5
P-263 A/B	Leq,D	99.4		295.12	-60.4	5.3	-14.4	-0.9	-0.23	0.0	0.0	0.0	0.0	28.7
P-270 A/B	Leq,D	98.5		346.60	-61.8	5.3	-24.3	-1.5	-0.15	0.0	0.1	0.0	0.0	16.1
P-271 A/B	Leq,D	98.2		327.57	-61.3	5.3	-19.1	-1.0	-0.54	0.0	0.0	0.0	0.0	21.5
P-272 A/B	Leq,D	98.2		324.76	-61.2	5.3	-19.1	-1.0	-0.54	0.0	0.0	0.0	0.0	21.7
P-273 A/B	Leq,D	98.5		344.34	-61.7	5.3	-24.3	-1.5	-0.03	0.0	0.1	0.0	0.0	16.3
P-275 A/B/C	Leq,D	98.2		319.56	-61.1	5.3	-19.5	-1.0	-0.24	0.0	0.0	0.0	0.0	21.7
P-305	Leq,D	99.3		400.63	-63.0	5.4	-19.0	-1.2	-0.89	0.0	0.0	0.0	0.0	20.5
P-306	Leq,D	100.8		406.75	-63.2	5.4	-21.6	-1.3	-1.11	0.0	0.0	0.0	0.0	19.0
P-309	Leq,D	99.3		402.03	-63.1	5.4	-21.5	-1.3	-0.91	0.0	0.0	0.0	0.0	17.9
P-328	Leq,D	100.8		410.46	-63.3	5.4	-21.6	-1.3	-1.34	0.0	0.0	0.0	0.0	18.7
P-329	Leq,D	100.8		408.54	-63.2	5.4	-21.6	-1.3	-1.23	0.0	0.0	0.0	0.0	18.8
P-353	Leq,D	98.5		390.79	-62.8	5.1	-20.0	-1.2	-0.84	0.0	0.0	0.0	0.0	18.7
P-358 A/B	Leq,D	99.4		385.19	-62.7	5.3	-23.7	-1.6	-0.87	0.0	0.0	0.0	0.0	15.8
P-359 A/B	Leq,D	99.4		388.77	-62.8	5.3	-22.1	-1.5	-1.01	0.0	0.0	0.0	0.0	17.4
P-360 A/B	Leq,D	99.4		395.74	-62.9	5.3	-23.6	-1.6	-1.26	0.0	0.0	0.0	0.0	15.3
P-361A	Leq,D	98.1		399.50	-63.0	5.1	-19.5	-1.3	-0.27	0.0	3.4	0.0	0.0	22.5
P-371 A/B	Leq,D	98.0		187.45	-56.5	4.6	-16.9	-0.6		0.0	1.5	0.0	0.0	30.2
P-373 A/B	Leq,D	98.0		193.86	-56.7	4.7	-7.3	-0.7		0.0	0.0	0.0	0.0	37.9
P-374 A/B	Leq,D	98.0		192.23	-56.7	4.7	-7.2	-0.7		0.0	0.1	0.0	0.0	38.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-375 A/B	Leq,D	98.0		188.68	-56.5	4.6	-8.0	-0.7		0.0	0.1	0.0	0.0	37.6
P-376	Leq,D	98.0		191.28	-56.6	4.7	-7.8	-0.7		0.0	0.1	0.0	0.0	37.7
P-376 A/B	Leq,D	98.0		195.56	-56.8	4.7	-6.1	-0.7		0.0	0.0	0.0	0.0	39.0
P-377	Leq,D	98.0		190.30	-56.6	4.6	-7.9	-0.7		0.0	0.1	0.0	0.0	37.5
P-1101 A	Leq,D	98.9		443.97	-63.9	5.1	-21.8	-1.6		0.0	0.2	0.0	0.0	16.9
P-1103	Leq,D	98.9		442.82	-63.9	5.1	-21.6	-1.6		0.0	0.2	0.0	0.0	17.1
P-1105 A/B/C	Leq,D	98.9		448.11	-64.0	5.1	-21.8	-1.6	-0.40	0.0	0.3	0.0	0.0	16.5
P-1800	Leq,D	98.9		495.68	-64.9	5.4	-23.4	-1.8		0.0	3.0	0.0	0.0	17.2
P-1801	Leq,D	98.9		530.91	-65.5	5.3	-25.0	-2.4		0.0	2.5	0.0	0.0	13.9
P-1802	Leq,D	98.9		529.28	-65.5	5.3	-25.0	-2.4		0.0	0.7	0.0	0.0	12.1
P-1803	Leq,D	99.1		400.81	-63.1	5.3	-24.7	-1.8		0.0	0.4	0.0	0.0	15.1
P-1804	Leq,D	99.1		420.78	-63.5	5.3	-24.4	-1.8		0.0	6.8	0.0	0.0	21.5
P-1805	Leq,D	99.1		423.23	-63.5	5.3	-24.4	-1.8		0.0	6.4	0.0	0.0	21.1
P-1806	Leq,D	99.1		382.03	-62.6	5.3	-18.7	-1.2		0.0	3.9	0.0	0.0	25.7
P-1809 A	Leq,D	98.9		501.35	-65.0	5.4	-22.2	-1.6		0.0	5.1	0.0	0.0	20.5
P-1810 A/B/C	Leq,D	99.0		418.02	-63.4	5.3	-24.8	-1.9		0.0	0.0	0.0	0.0	14.1
P-1811 A/B	Leq,D	99.1		387.38	-62.8	5.3	-19.0	-1.2		0.0	2.2	0.0	0.0	23.6
P-1811 A/B	Leq,D	99.1		426.33	-63.6	5.3	-24.3	-1.8		0.0	0.5	0.0	0.0	15.2
P-1847 A/B	Leq,D	99.4		355.61	-62.0	5.1	-23.0	-1.3		0.0	0.0	0.0	0.0	18.2
P-1849 A/B	Leq,D	99.4		361.35	-62.2	5.1	-22.9	-1.3		0.0	0.0	0.0	0.0	18.1
P-1853	Leq,D	99.1		362.15	-62.2	5.4	-18.0	-1.1	-0.90	0.0	0.0	0.0	0.0	22.4
Piping Furnace Tanks	Leq,D	87.1	72	199.67	-57.0	2.8	-22.0	-4.2		0.0	4.3	0.0	0.0	11.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	202.71	-57.1	2.9	-23.4	-4.6		0.0	6.1	0.0	0.0	22.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	163.97	-55.3	3.1	-24.8	-1.6		0.0	2.0	0.0	0.0	38.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	166.72	-55.4	3.2	-24.8	-5.2		0.0	2.6	0.0	0.0	35.5
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	445.91	-64.0	3.8	-24.0	-1.9		0.0	0.1	0.0	0.0	24.5
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	415.51	-63.4	3.6	-17.9	-1.3		0.0	0.0	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	395.14	-62.9	3.6	-19.1	-1.2		0.0	0.1	0.0	0.0	24.5
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	434.78	-63.8	3.7	-23.3	-1.8		0.0	0.2	0.0	0.0	26.3
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	403.61	-63.1	3.7	-22.4	-1.6		0.0	0.1	0.0	0.0	20.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	397.12	-63.0	3.6	-20.2	-1.3		0.0	0.8	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	395.41	-62.9	3.6	-18.8	-1.2		0.0	0.0	0.0	0.0	27.3
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	411.35	-63.3	3.7	-21.6	-1.5		0.0	0.3	0.0	0.0	23.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	422.94	-63.5	2.4	-18.4	-1.3		0.0	0.0	0.0	0.0	32.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	175.95	-55.9	2.8	-19.9	-1.1		0.0	0.1	0.0	0.0	6.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	162.29	-55.2	3.1	-24.8	-1.6		0.0	2.3	0.0	0.0	40.5
Reformer-Burner Reformer East	Leq,D	97.3	269	198.63	-57.0	2.6	-8.9	-1.0		0.0	0.0	0.0	0.0	36.1
Reformer-Burner Reformer North	Leq,D	95.9	192	195.97	-56.8	2.6	-7.5	-1.1		0.0	0.1	0.0	0.0	33.1
Reformer-Burner Reformer South	Leq,D	95.8	191	210.38	-57.5	2.6	-23.0	-1.3		0.0	2.3	0.0	0.0	21.9
Reformer-Burner Reformer West	Leq,D	97.3	268	207.40	-57.3	2.6	-22.8	-1.3		0.0	1.7	0.0	0.0	23.1
RFG A from battery to process	Leq,D	99.4	87	205.73	-57.3	2.9	-23.5	-4.8		0.0	4.3	0.0	0.0	21.0
RFG A from battery to process w NC	Leq,D	115.2	42	164.48	-55.3	3.2	-24.9	-5.3		0.0	1.7	0.0	0.0	34.6
Stack Noise	Leq,D	108.4		235.10	-58.4	2.5	-6.8	-0.5		-5.2	0.0	0.0	0.0	40.0
Steam Turbine-Facade 01	Leq,D	99.6	29	175.40	-55.9	4.2	-23.6	-3.1		0.0	0.3	0.0	0.0	21.6
Steam Turbine-Facade 02	Leq,D	96.2	13	175.92	-55.9	4.2	-24.3	-3.6		0.0	0.4	0.0	0.0	17.1
Steam Turbine-Facade 03	Leq,D	99.6	29	172.22	-55.7	4.2	-23.3	-3.0		0.0	0.4	0.0	0.0	22.2
Steam Turbine-Facade 04	Leq,D	96.2	13	171.74	-55.7	4.1	-21.4	-2.3		0.0	0.5	0.0	0.0	21.6
Steam Turbine-Roof 01	Leq,D	99.7	30	173.81	-55.8	3.2	-23.8	-3.1		0.0	3.1	0.0	0.0	23.4
Tank Farm Pump 1	Leq,D	99.0	3	334.07	-61.5	4.9	-22.9	-1.9		0.0	1.8	0.0	0.0	19.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Tank Farm Pump 2	Leq,D	99.0	3	352.98	-61.9	5.0	-22.8	-1.9		0.0	0.0	0.0	0.0	17.3
Tank Farm Pump 3	Leq,D	99.0	3	358.41	-62.1	5.0	-22.2	-1.9		0.0	1.2	0.0	0.0	19.0
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	253.28	-59.1	4.1	-6.1	-2.4	-0.12	0.0	0.1	-11.8	0.0	37.1
XF-1502 Splitter Area 1	Leq,D	104.5		128.29	-53.2	2.8	-0.1	-1.0	-0.61	-4.4	0.2	0.0	0.0	48.4
XF-1502 Splitter Area 2	Leq,D	104.5		131.95	-53.4	2.8	0.0	-1.0	-0.68	-4.2	0.2	0.0	0.0	48.2
XF-1504 Splitter Area 1	Leq,D	104.5		129.30	-53.2	2.8	-0.2	-1.0	-0.61	-4.5	0.0	0.0	0.0	47.8
XF-1504 Splitter Area 2	Leq,D	104.5		132.93	-53.5	2.8	-0.2	-1.1	-0.69	-4.5	0.2	0.0	0.0	47.6
XF 251, 250, 271, 270	Leq,D	101.1	128	323.45	-61.2	3.0	-13.4	-0.5		-1.4	0.0	0.0	0.0	27.7
XF 260, 261A, 261 B	Leq,D	99.9	97	295.73	-60.4	2.8	-2.3	-1.0	-0.01	-2.7	0.0	0.0	0.0	36.2
XF 304, XF 321	Leq,D	110.5	56	104.14	-51.3	3.0	-8.2	-0.2	-0.15	-2.1	0.1	0.0	0.0	51.6
XF 313, XF 314	Leq,D	113.0	18	76.61	-48.7	3.0	-10.7	-0.2		-2.9	1.5	0.0	0.0	55.1
XF 335-1, XF 335-2	Leq,D	113.4	54	92.80	-50.3	3.0	-9.0	-0.3	-0.15	-2.2	0.4	0.0	0.0	54.8
XF 353A/B	Leq,D	95.4	35	396.19	-63.0	3.4	-13.4	-0.6	0.00	-1.5	0.0	0.0	0.0	20.4
XF 353A/B	Leq,D	95.4	35	372.04	-62.4	3.2	-12.7	-0.6		-1.5	0.0	0.0	0.0	21.5
XF 354A/B	Leq,D	95.4	35	395.05	-62.9	3.4	-12.9	-0.6	0.00	-1.4	0.0	0.0	0.0	21.2
XF 503	Leq,D	113.0	21	148.82	-54.4	3.0	-2.3	-1.9	-0.24	-3.8	0.0	0.0	0.0	53.4
XF - 1601	Leq,D	96.6		143.50	-54.1	2.7	-4.2	-0.3		-1.7	0.0	0.0	0.0	38.9
XF - 1602	Leq,D	96.6		145.49	-54.2	2.7	-0.2	-0.5		-2.7	0.0	0.0	0.0	41.5
XF Module 1510	Leq,D	108.3		134.55	-53.6	2.9	0.0	-1.0	-0.26	-4.2	0.2	0.0	0.0	52.3
XF Module 1519	Leq,D	109.0		129.27	-53.2	2.9	0.0	-1.0	-0.25	-4.2	0.2	0.0	0.0	53.3
xxxx xxxx xxxx xxxx	Leq,D		228								8.1			9.1
xxxx xxxx xxxx xxxx	Leq,D		520								7.3			36.1
xxxx xxxx xxxx xxxx	Leq,D		1341								7.9			37.4
xxxx xxxx xxxx xxxx	Leq,D		450								9.8			12.1
Receiver N-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.3 dB(A) Ld 7-19 dB(A) Leq,N 61.3 dB(A) Le 19-22 dB(A) CNEL 68.0 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	160.20	-55.1	3.9	-24.0	-1.3		0.0	2.5	0.0	0.0	30.4
18-1855 A/B	Leq,D	98.8		234.15	-58.4	4.9	-22.2	-0.9		0.0	1.4	0.0	0.0	23.6
18-1856 A/B	Leq,D	98.8		237.03	-58.5	4.9	-22.4	-0.9		0.0	1.4	0.0	0.0	23.3
18-1857 A/B	Leq,D	98.8		231.51	-58.3	4.9	-21.3	-0.8		0.0	1.3	0.0	0.0	24.5
18-1858 A/B	Leq,D	98.8		229.89	-58.2	4.6	-5.1	-1.1		0.0	2.2	0.0	0.0	41.1
18-PK 1802 Air Compressor Package	Leq,D	103.1		251.40	-59.0	5.0	-19.9	-0.5		0.0	1.2	0.0	0.0	30.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	267.80	-59.5	4.9	-14.1	-2.2	-0.16	0.0	1.4	-2.7	0.0	36.6
Air Compressor C 1	Leq,D	110.0	5	139.45	-53.9	4.2	-15.7	-0.4		0.0	1.7	0.0	0.0	46.0
Air Compressor Pump	Leq,D	100.3		226.41	-58.1	4.8	-23.8	-2.5		0.0	4.1	0.0	0.0	24.8
Blower F 401	Leq,D	113.0		218.78	-57.8	4.1	-14.4	-0.3	-0.42	0.0	0.3	0.0	0.0	44.6
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	382.34	-62.6	4.9	-22.0	-1.0	-1.36	0.0	2.0	0.0	0.0	18.5
Boiler Feed Water Pump A	Leq,D	97.1	3	215.07	-57.6	4.7	-23.1	-1.1		0.0	0.3	0.0	0.0	20.3
Boiler Feed Water Pump B	Leq,D	97.1	3	218.14	-57.8	4.7	-23.0	-1.1		0.0	1.0	0.0	0.0	21.0
C370 A Motor	Leq,D	103.6	3	182.26	-56.2	3.4	-15.0	-0.5		0.0	2.1	0.0	0.0	37.4
C370 B Motor	Leq,D	108.6	3	183.91	-56.3	3.4	-8.2	-0.9		0.0	2.3	0.0	0.0	48.9
C370A	Leq,D	103.8	5	177.89	-56.0	3.5	-16.2	-0.6		0.0	2.1	0.0	0.0	36.5
C370B	Leq,D	103.8	5	179.59	-56.1	3.5	-10.6	-0.8		0.0	2.0	0.0	0.0	41.7
C-270 A	Leq,D	106.3	6	316.02	-61.0	4.5	-20.9	-1.0	-0.31	0.0	1.4	0.0	0.0	29.1
C-270 B	Leq,D	106.3	6	314.02	-60.9	4.5	-20.8	-1.0	-0.10	0.0	1.5	0.0	0.0	29.5
C-270 C	Leq,D	106.3	6	312.06	-60.9	4.5	-20.8	-1.0	0.00	0.0	5.6	0.0	0.0	33.8
C-301 Compressor	Leq,D	106.8	3	301.57	-60.6	4.5	-22.0	-1.1	-0.13	0.0	0.1	0.0	0.0	27.6
C-301 Motor	Leq,D	106.8	4	299.65	-60.5	4.5	-23.4	-2.1	-0.15	0.0	0.0	0.0	0.0	25.1
C-351 Compressor	Leq,D	106.8	4	318.82	-61.1	4.5	-21.4	-1.2	-0.53	0.0	0.0	0.0	0.0	27.1
C-351 Motor	Leq,D	106.8	5	323.03	-61.2	4.3	-23.2	-2.2	-0.73	0.0	0.1	0.0	0.0	23.8
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	265.70	-59.5	4.9	-12.8	-0.5	-0.27	0.0	1.2	-33.5	0.0	34.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	201.07	-57.1	3.7	-19.4	-0.5	-0.52	2.8	0.8	0.0	0.0	34.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	194.52	-56.8	3.6	-15.2	-0.6	-0.51	0.0	1.1	0.0	0.0	32.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	200.40	-57.0	3.5	-15.3	-0.4	-0.39	2.4	2.9	0.0	0.0	42.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	209.41	-57.4	3.7	-21.3	-0.6	-0.34	-7.8	1.0	0.0	0.0	27.9
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	197.85	-56.9	3.6	-20.5	-0.6	-0.51	-7.8	0.9	0.0	0.0	22.0
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	212.46	-57.5	3.7	-21.5	-0.9	-0.51	-7.7	1.1	0.0	0.0	17.1
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	159.82	-55.1	3.5	-19.2	-0.5		4.1	1.1	0.0	0.0	31.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	164.84	-55.3	3.5	-21.4	-0.7	-0.22	-6.1	1.0	0.0	0.0	18.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	153.82	-54.7	3.1	-15.3	-0.4		4.5	0.7	0.0	0.0	38.5
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	158.60	-55.0	3.3	-22.9	-0.8		-5.1	1.5	0.0	0.0	21.7
Cooling Tower M 512	Leq,D	95.7		168.25	-55.5	4.4	-23.3	-0.8		0.0	1.7	0.0	0.0	22.1
Cooling Tower M 513	Leq,D	95.7		168.92	-55.5	4.3	-22.1	-0.8		0.0	1.3	0.0	0.0	22.9
Cooling Tower M 514	Leq,D	95.7		167.80	-55.5	4.4	-23.3	-0.8		0.0	1.6	0.0	0.0	22.1
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	187.52	-56.5	2.5	-21.6	-0.5		-1.6	0.1	0.0	0.0	18.3
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	146.89	-54.3	3.5	-16.7	0.0		0.0	0.0	0.0	0.0	27.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	144.39	-54.2	3.5	-15.5	0.0		0.0	0.0	0.0	0.0	26.9
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	146.23	-54.3	2.8	-13.3	0.0		0.0	0.0	0.0	0.0	28.6
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	147.98	-54.4	3.4	-16.5	0.0		0.0	0.1	0.0	0.0	25.7
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	145.46	-54.2	3.4	-13.7	0.0		0.0	0.0	0.0	0.0	30.8
FD Motor	Leq,D	103.3	2	147.53	-54.4	3.7	-24.6	-1.6		0.0	2.0	0.0	0.0	28.4
Feed Compressor -B Motor	Leq,D	103.8	5	201.82	-57.1	3.6	-4.8	-2.2		0.0	2.3	0.0	0.0	45.7
Feed Compressor-A Compressor	Leq,D	104.0	5	192.49	-56.7	3.8	-7.5	-1.0		0.0	2.5	0.0	0.0	45.1
Feed Compressor-A Motor	Leq,D	103.8	6	197.63	-56.9	3.6	-7.1	-1.6		0.0	2.5	0.0	0.0	44.3
Feed Compressor-B Compressor	Leq,D	104.0	7	196.18	-56.8	3.8	-4.7	-1.4		0.0	2.2	0.0	0.0	47.0
H2S Compressor 18-C-271	Leq,D	105.3	6	162.09	-55.2	3.9	-18.8	-0.6	-0.27	0.0	2.1	0.0	0.0	36.5
Heater # 5-Heater	Leq,D	91.1	13	378.20	-62.5	4.9	-23.0	-1.2	-1.37	0.0	2.4	0.0	0.0	13.4
Heater # 5-Heater	Leq,D	91.1	13	376.00	-62.5	4.9	-23.0	-1.2	-0.94	0.0	1.4	0.0	0.0	12.8
Heater # 5-Heater	Leq,D	91.1	13	380.41	-62.6	4.9	-23.0	-1.2	-1.23	0.0	3.5	0.0	0.0	14.5
Hydro Heater H-402	Leq,D	98.1		180.44	-56.1	4.2	-17.1	-0.4	-0.51	0.0	0.5	0.0	0.0	28.8
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	162.39	-55.2	4.0	-16.2	0.0		0.0	0.0	0.0	0.0	19.6
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	164.32	-55.3	4.1	-16.1	0.0		0.0	0.0	0.0	0.0	19.9
ID Fan-ID Fan - North	Leq,D	92.2	8	161.20	-55.1	4.0	-13.1	0.0		0.0	0.0	0.0	0.0	28.0
ID Fan-ID Fan - North 2	Leq,D	91.4	7	163.41	-55.3	4.0	-14.7	0.0		0.0	0.0	0.0	0.0	25.5
ID Fan-ID Fan - South	Leq,D	92.3	9	163.86	-55.3	4.1	-16.7	0.0		0.0	0.0	0.0	0.0	24.4
ID Fan-ID Fan - South 2	Leq,D	91.4	7	164.65	-55.3	4.1	-16.1	0.0		0.0	0.0	0.0	0.0	24.0
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	162.96	-55.2	3.2	-13.4	0.0		0.0	0.0	0.0	0.0	28.5
Motor & Pump P 56A/B	Leq,D	93.7		171.55	-55.7	4.4	-19.1	-1.0	-0.23	0.0	0.9	0.0	0.0	23.1
Motor & Pump P 120/121	Leq,D	96.2	2	147.05	-54.3	4.2	-14.2	-0.5	-0.01	0.0	3.4	0.0	0.0	34.8
Motor & Pump P 211/212	Leq,D	93.7		203.26	-57.2	4.7	-18.7	-1.1	-0.94	0.0	2.0	0.0	0.0	22.6
Motor & Pump P 215/214	Leq,D	94.6		199.36	-57.0	4.8	-21.1	-1.2	-0.90	0.0	2.9	0.0	0.0	22.1
Motor & Pump P 216	Leq,D	98.3		206.90	-57.3	4.6	-20.8	-1.2	-1.03	0.0	1.5	0.0	0.0	24.2
Motor & Pump P 217/218	Leq,D	93.7		201.87	-57.1	5.1	-21.4	-1.2	-0.93	0.0	3.2	0.0	0.0	21.3
Motor & Pump P 300	Leq,D	97.1	2	155.00	-54.8	4.3	-13.8	-0.5		0.0	2.6	0.0	0.0	35.0
Motor & Pump P 301	Leq,D	102.1	2	156.02	-54.9	4.3	-14.3	-0.5		0.0	3.7	0.0	0.0	40.4
Motor & Pump P 302	Leq,D	97.1	2	153.93	-54.7	4.3	-10.7	-0.5		0.0	0.9	0.0	0.0	36.3
Motor & Pump P 303	Leq,D	97.1	2	153.13	-54.7	4.2	-10.7	-0.5		0.0	1.5	0.0	0.0	36.9
Motor & Pump P 305	Leq,D	97.5	2	152.26	-54.6	4.2	-15.5	-0.5		0.0	4.4	0.0	0.0	35.4
Motor & Pump P 306	Leq,D	112.6	4	147.06	-54.3	3.8	-18.6	-0.6		0.0	0.3	0.0	0.0	43.2
Motor & Pump P 307	Leq,D	102.1	2	159.04	-55.0	4.3	-7.0	-0.6		0.0	2.6	0.0	0.0	46.3
Motor & Pump P 309	Leq,D	97.5	2	151.39	-54.6	4.2	-17.9	-0.5		0.0	6.7	0.0	0.0	35.4
Motor & Pump P 312	Leq,D	101.5	2	173.67	-55.8	4.7	-21.7	-0.7	-0.30	0.0	4.2	0.0	0.0	31.8
Motor & Pump P 313	Leq,D	101.5	2	174.93	-55.8	4.7	-21.7	-0.7	-0.30	0.0	4.7	0.0	0.0	32.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 315	Leq,D	102.9	2	179.74	-56.1	4.6	-18.5	-0.6	-0.31	0.0	1.2	0.0	0.0	33.1
Motor & Pump P 316	Leq,D	102.9	2	181.19	-56.2	4.6	-17.3	-0.6	-0.32	0.0	1.0	0.0	0.0	34.1
Motor & Pump P 317	Leq,D	102.9	2	182.58	-56.2	4.5	-16.9	-0.6	-0.32	0.0	1.1	0.0	0.0	34.4
Motor & Pump P 318	Leq,D	100.2	1	177.96	-56.0	4.8	-20.6	-0.7	-0.31	0.0	2.1	0.0	0.0	29.5
Motor & Pump P 319	Leq,D	100.2	1	176.89	-55.9	4.8	-20.6	-0.7	-0.31	0.0	7.5	0.0	0.0	34.9
Motor & Pump P 327	Leq,D	111.2	3	143.52	-54.1	4.2	-16.8	-0.9		0.0	2.7	0.0	0.0	46.4
Motor & Pump P 328	Leq,D	109.9	5	150.23	-54.5	3.9	-14.1	-0.5		0.0	3.3	0.0	0.0	48.0
Motor & Pump P 329	Leq,D	110.2	5	148.61	-54.4	3.9	-14.6	-0.5		0.0	1.3	0.0	0.0	45.8
Motor & Pump P 451	Leq,D	93.7		185.86	-56.4	4.5	-21.0	-1.0	-0.50	0.0	1.3	0.0	0.0	20.5
Motor & Pump P 453	Leq,D	93.7		194.85	-56.8	4.6	-18.3	-1.0	-0.46	0.0	0.6	0.0	0.0	22.3
Motor & Pump P 454	Leq,D	93.7		186.21	-56.4	4.5	-21.6	-1.2		0.0	1.2	0.0	0.0	20.2
Motor & Pump P 457	Leq,D	93.7		196.22	-56.8	4.6	-18.3	-1.0	-0.43	0.0	0.6	0.0	0.0	22.3
Motor & Pump P 458	Leq,D	93.7		185.30	-56.3	4.5	-20.9	-1.0	-0.58	0.0	1.0	0.0	0.0	20.3
Motor & Pump P 459	Leq,D	93.7		185.34	-56.4	4.5	-22.1	-1.3		0.0	1.2	0.0	0.0	19.6
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		153.69	-54.7	4.4	-22.8	-1.1	-0.57	0.0	7.0	0.0	0.0	28.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		152.22	-54.6	4.4	-22.8	-1.1	-0.57	0.0	3.7	0.0	0.0	25.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		119.03	-52.5	4.1	-23.2	-1.0	-0.09	0.0	1.6	0.0	0.0	24.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		118.08	-52.4	4.1	-23.1	-1.0	-0.06	0.0	1.5	0.0	0.0	24.4
Motor & Pump P 1601 A	Leq,D	96.3	2	141.28	-54.0	3.9	-22.6	-1.0		0.0	4.8	0.0	0.0	27.3
Motor & Pump P 1601 B	Leq,D	96.3	2	140.76	-54.0	3.9	-22.2	-0.9		0.0	4.2	0.0	0.0	27.3
Motor & Pump P 1602 A	Leq,D	96.3	2	140.58	-54.0	3.9	-22.2	-0.9		0.0	3.2	0.0	0.0	26.3
Motor & Pump P 1602 B	Leq,D	96.5	2	140.11	-53.9	3.9	-22.1	-0.9		0.0	2.7	0.0	0.0	26.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	148.78	-54.4	4.5	-21.4	-1.0	-0.37	0.0	2.4	0.0	0.0	26.3
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	144.47	-54.2	4.4	-22.5	-1.0	-0.24	0.0	5.8	0.0	0.0	28.8
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	142.30	-54.1	4.4	-22.9	-1.1	-0.32	0.0	7.9	0.0	0.0	30.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	150.67	-54.6	4.4	-22.8	-1.1	-0.57	0.0	2.1	0.0	0.0	24.2
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	149.11	-54.5	4.4	-22.8	-1.1	-0.56	0.0	3.9	0.0	0.0	26.1
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	134.61	-53.6	4.4	-23.0	-1.0	-0.05	0.0	6.7	0.0	0.0	29.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	135.64	-53.6	4.4	-23.3	-1.0	-0.18	0.0	9.0	0.0	0.0	31.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	137.60	-53.8	4.3	-23.3	-1.1	-0.33	0.0	8.4	0.0	0.0	30.6
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	136.75	-53.7	4.4	-23.2	-1.1	-0.25	0.0	8.7	0.0	0.0	31.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	119.17	-52.5	3.2	-19.1	-0.4		0.0	5.8	0.0	0.0	41.2
P-2 A/B	Leq,D	98.5		400.80	-63.1	5.3	-22.3	-1.4	-0.48	0.0	1.5	0.0	0.0	18.2
P-50 A/B	Leq,D	98.1		359.92	-62.1	5.3	-24.4	-1.6	-0.61	0.0	1.9	0.0	0.0	16.6
P-51 A/B	Leq,D	98.1		363.26	-62.2	5.3	-20.7	-1.1	-0.70	0.0	0.8	0.0	0.0	19.6
P-060 A/B	Leq,D	98.1		351.59	-61.9	5.3	-24.5	-1.6	-0.35	0.0	3.8	0.0	0.0	18.9
P-63	Leq,D	98.5		389.14	-62.8	5.4	-20.1	-1.2	-1.34	0.0	1.5	0.0	0.0	19.9
P-70 A/B	Leq,D	98.1		355.28	-62.0	5.3	-24.7	-1.7	-0.41	0.0	2.0	0.0	0.0	16.6
P-73 A/B	Leq,D	98.5		397.95	-63.0	5.3	-24.6	-1.8		0.0	2.0	0.0	0.0	16.3
P-251 A/B	Leq,D	98.2		277.44	-59.9	5.3	-10.2	-1.0	-0.46	0.0	2.2	0.0	0.0	34.2
P-252 A/B	Leq,D	98.2		268.17	-59.6	5.3	-11.1	-0.9	-0.21	0.0	2.1	0.0	0.0	33.8
P-253	Leq,D	98.2		270.63	-59.6	5.3	-5.3	-1.2	-0.21	0.0	2.2	0.0	0.0	39.2
P-254 A/B	Leq,D	98.2		280.80	-60.0	5.3	-9.7	-1.0	-0.46	0.0	4.4	0.0	0.0	36.7
P-255 A/B	Leq,D	98.2		279.71	-59.9	5.3	-10.2	-1.0	-0.46	0.0	2.2	0.0	0.0	34.2
P-255 A/B	Leq,D	98.2		275.33	-59.8	5.3	-10.2	-1.0	-0.45	0.0	2.2	0.0	0.0	34.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		278.36	-59.9	5.3	-10.2	-1.0	-0.46	0.0	2.1	0.0	0.0	34.2
P-259 A/B	Leq,D	98.2		276.39	-59.8	5.3	-10.2	-1.0	-0.46	0.0	2.2	0.0	0.0	34.2
P-260	Leq,D	99.1		262.66	-59.4	5.3	-10.7	-0.9	-0.20	0.0	2.3	0.0	0.0	35.5
P-261 A/B	Leq,D	98.0		258.18	-59.2	5.3	-15.8	-0.8	-0.21	0.0	2.1	0.0	0.0	29.4
P-262 A/B	Leq,D	99.1		260.72	-59.3	5.3	-23.9	-1.1	-0.20	0.0	2.4	0.0	0.0	22.2
P-263 A/B	Leq,D	99.4		261.43	-59.3	5.3	-22.8	-1.0	-0.20	0.0	10.7	0.0	0.0	32.1
P-270 A/B	Leq,D	98.5		295.66	-60.4	5.3	-23.9	-1.2	-0.22	0.0	2.0	0.0	0.0	20.1
P-271 A/B	Leq,D	98.2		284.13	-60.1	5.3	-5.2	-1.3	-0.45	0.0	2.2	0.0	0.0	38.6
P-272 A/B	Leq,D	98.2		282.47	-60.0	5.3	-5.2	-1.3	-0.45	0.0	2.2	0.0	0.0	38.7
P-273 A/B	Leq,D	98.5		294.14	-60.4	5.3	-23.3	-1.1	-0.04	0.0	1.8	0.0	0.0	20.8
P-275 A/B/C	Leq,D	98.2		274.37	-59.8	5.3	-21.7	-0.9	-0.21	0.0	1.6	0.0	0.0	22.4
P-305	Leq,D	99.3		353.91	-62.0	5.4	-23.6	-1.4	-0.45	0.0	2.0	0.0	0.0	19.2
P-306	Leq,D	100.8		358.30	-62.1	5.4	-22.2	-1.2	-1.42	0.0	1.7	0.0	0.0	21.0
P-309	Leq,D	99.3		354.88	-62.0	5.4	-23.6	-1.4	-0.70	0.0	2.0	0.0	0.0	18.9
P-328	Leq,D	100.8		361.04	-62.1	5.4	-23.2	-1.3	-1.49	0.0	2.7	0.0	0.0	20.7
P-329	Leq,D	100.8		359.58	-62.1	5.4	-22.1	-1.2	-1.48	0.0	1.7	0.0	0.0	20.9
P-353	Leq,D	98.5		342.14	-61.7	5.1	-23.2	-1.3	-0.98	0.0	1.8	0.0	0.0	18.2
P-358 A/B	Leq,D	99.4		330.24	-61.4	5.3	-21.5	-1.1	-0.76	0.0	0.0	0.0	0.0	20.0
P-359 A/B	Leq,D	99.4		334.39	-61.5	5.3	-23.3	-1.3	-0.88	0.0	0.0	0.0	0.0	17.8
P-360 A/B	Leq,D	99.4		342.44	-61.7	5.3	-22.7	-1.2	-1.03	0.0	0.0	0.0	0.0	18.1
P-361A	Leq,D	98.1		334.86	-61.5	5.0	-20.7	-1.1	-0.29	0.0	1.8	0.0	0.0	21.4
P-371 A/B	Leq,D	98.0		177.49	-56.0	4.6	-18.5	-0.6		0.0	0.6	0.0	0.0	28.1
P-373 A/B	Leq,D	98.0		174.40	-55.8	4.5	-22.6	-0.7		0.0	2.0	0.0	0.0	25.4
P-374 A/B	Leq,D	98.0		174.61	-55.8	4.5	-22.1	-0.7		0.0	1.5	0.0	0.0	25.4
P-375 A/B	Leq,D	98.0		175.32	-55.9	4.5	-19.9	-0.6		0.0	0.8	0.0	0.0	27.0
P-376	Leq,D	98.0		174.87	-55.8	4.5	-21.8	-0.7		0.0	1.4	0.0	0.0	25.5
P-376 A/B	Leq,D	98.0		174.12	-55.8	4.5	-22.9	-0.8		0.0	2.2	0.0	0.0	25.2
P-377	Leq,D	98.0		174.99	-55.9	4.5	-21.6	-0.7		0.0	1.2	0.0	0.0	25.6
P-1101 A	Leq,D	98.9		379.96	-62.6	5.1	-23.5	-1.5	-0.43	0.0	2.7	0.0	0.0	18.7
P-1103	Leq,D	98.9		378.96	-62.6	5.1	-23.6	-1.5	-0.46	0.0	2.8	0.0	0.0	18.6
P-1105 A/B/C	Leq,D	98.9		383.45	-62.7	5.1	-23.1	-1.4	-0.26	0.0	3.1	0.0	0.0	19.6
P-1800	Leq,D	98.9		432.67	-63.7	5.4	-22.2	-1.4	-0.48	0.0	4.7	0.0	0.0	21.2
P-1801	Leq,D	98.9		462.93	-64.3	5.3	-24.9	-2.1		0.0	5.4	0.0	0.0	18.3
P-1802	Leq,D	98.9		461.08	-64.3	5.3	-25.0	-2.1		0.0	4.9	0.0	0.0	17.8
P-1803	Leq,D	99.1		333.44	-61.5	5.3	-24.7	-1.6		0.0	5.9	0.0	0.0	22.5
P-1804	Leq,D	99.1		353.79	-62.0	5.3	-24.2	-1.5		0.0	3.3	0.0	0.0	20.0
P-1805	Leq,D	99.1		355.88	-62.0	5.3	-24.1	-1.5		0.0	3.4	0.0	0.0	20.2
P-1806	Leq,D	99.1		317.66	-61.0	5.3	-21.1	-1.0		0.0	1.8	0.0	0.0	23.0
P-1809 A	Leq,D	98.9		436.63	-63.8	5.4	-22.0	-1.4		0.0	3.8	0.0	0.0	20.8
P-1810 A/B/C	Leq,D	99.0		349.04	-61.8	5.3	-24.9	-1.7		0.0	2.0	0.0	0.0	17.9
P-1811 A/B	Leq,D	99.1		322.14	-61.2	5.3	-21.1	-1.0		0.0	1.8	0.0	0.0	22.9
P-1811 A/B	Leq,D	99.1		358.56	-62.1	5.3	-24.7	-1.6		0.0	1.9	0.0	0.0	18.0
P-1847 A/B	Leq,D	99.4		280.37	-59.9	5.1	-23.1	-1.1		0.0	1.8	0.0	0.0	22.2
P-1849 A/B	Leq,D	99.4		285.49	-60.1	5.1	-23.0	-1.1		0.0	1.8	0.0	0.0	22.2
P-1853	Leq,D	99.1		323.20	-61.2	5.3	-7.7	-1.2	-0.78	0.0	2.2	0.0	0.0	35.8
Piping Furnace Tanks	Leq,D	87.1	72	151.41	-54.6	2.8	-8.1	-5.7		0.0	3.5	0.0	0.0	25.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	160.91	-55.1	2.9	-5.6	-5.7		0.0	3.3	0.0	0.0	38.0
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	131.59	-53.4	2.8	-17.8	-1.1		0.0	2.4	0.0	0.0	47.6
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	133.36	-53.5	2.9	-19.1	-3.4		0.0	2.8	0.0	0.0	44.8
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	366.25	-62.3	3.6	-23.4	-1.5		0.0	2.0	0.0	0.0	28.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	335.22	-61.5	3.4	-9.7	-1.4		0.0	2.8	0.0	0.0	44.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	317.62	-61.0	3.4	-17.8	-1.0		0.0	4.7	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	358.75	-62.1	3.6	-24.3	-1.6		0.0	2.1	0.0	0.0	28.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	328.05	-61.3	3.5	-24.3	-1.5		0.0	2.1	0.0	0.0	22.5
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	318.77	-61.1	3.4	-16.7	-1.1		0.0	7.7	0.0	0.0	35.9
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	319.20	-61.1	3.4	-18.3	-1.0		0.0	1.4	0.0	0.0	31.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	336.26	-61.5	3.5	-23.3	-1.4		0.0	4.4	0.0	0.0	27.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	344.79	-61.7	2.5	-13.7	-1.4		0.0	5.6	0.0	0.0	44.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	133.92	-53.5	2.8	-14.9	-0.9		0.0	0.5	0.0	0.0	14.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	131.39	-53.4	2.8	-22.0	-1.2		0.0	2.3	0.0	0.0	45.2
Reformer-Burner Reformer East	Leq,D	97.3	269	140.04	-53.9	2.7	-4.2	-1.3		0.0	1.4	0.0	0.0	45.0
Reformer-Burner Reformer North	Leq,D	95.9	192	142.13	-54.0	2.7	-1.6	-1.5		0.0	2.1	0.0	0.0	43.6
Reformer-Burner Reformer South	Leq,D	95.8	191	150.30	-54.5	2.7	-24.3	-1.2		0.0	3.9	0.0	0.0	25.4
Reformer-Burner Reformer West	Leq,D	97.3	268	152.25	-54.6	2.7	-20.7	-0.9		0.0	1.0	0.0	0.0	27.7
RFG A from battery to process	Leq,D	99.4	87	161.99	-55.2	2.8	-5.0	-5.8		0.0	3.1	0.0	0.0	39.4
RFG A from battery to process w NC	Leq,D	115.2	42	130.59	-53.3	2.9	-19.8	-3.3		0.0	2.7	0.0	0.0	44.3
Stack Noise	Leq,D	108.4		168.35	-55.5	2.6	-4.5	-1.0		-6.3	0.4	0.0	0.0	44.0
Steam Turbine-Facade 01	Leq,D	99.6	29	149.40	-54.5	3.9	-24.5	-3.4		0.0	1.9	0.0	0.0	23.1
Steam Turbine-Facade 02	Leq,D	96.2	13	147.53	-54.4	3.9	-24.6	-3.4		0.0	2.0	0.0	0.0	19.8
Steam Turbine-Facade 03	Leq,D	99.6	29	145.68	-54.3	3.8	-24.5	-3.3		0.0	1.9	0.0	0.0	23.3
Steam Turbine-Facade 04	Leq,D	96.2	13	147.58	-54.4	3.9	-24.4	-3.3		0.0	1.8	0.0	0.0	19.9
Steam Turbine-Roof 01	Leq,D	99.7	30	147.54	-54.4	2.8	-24.5	-3.3		0.0	1.9	0.0	0.0	22.4
Tank Farm Pump 1	Leq,D	99.0	3	257.05	-59.2	4.9	-23.5	-1.5		0.0	4.8	0.0	0.0	24.4
Tank Farm Pump 2	Leq,D	99.0	3	274.12	-59.8	4.9	-22.5	-1.4		0.0	5.1	0.0	0.0	25.3
Tank Farm Pump 3	Leq,D	99.0	3	279.11	-59.9	4.9	-22.3	-1.4		0.0	6.3	0.0	0.0	26.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	307.49	-60.7	4.0	-7.3	-3.4	-0.07	0.0	0.9	-11.8	0.0	34.0
XF-1502 Splitter Area 1	Leq,D	104.5		140.06	-53.9	2.7	-18.9	-0.6	0.00	-2.9	0.4	0.0	0.0	31.3
XF-1502 Splitter Area 2	Leq,D	104.5		143.40	-54.1	2.7	-17.8	-0.5	-0.04	-2.6	0.5	0.0	0.0	32.6
XF-1504 Splitter Area 1	Leq,D	104.5		138.09	-53.8	2.7	-17.9	-0.5	-0.04	-2.6	0.5	0.0	0.0	32.9
XF-1504 Splitter Area 2	Leq,D	104.5		141.48	-54.0	2.7	-17.8	-0.5	-0.04	-2.6	0.7	0.0	0.0	33.0
XF 251, 250, 271, 270	Leq,D	101.1	128	279.36	-59.9	2.6	-6.8	-1.0		-2.6	1.0	0.0	0.0	34.4
XF 260, 261A, 261 B	Leq,D	99.9	97	265.51	-59.5	2.6	-10.7	-0.9	-0.21	-2.6	0.9	0.0	0.0	29.5
XF 304, XF 321	Leq,D	110.5	56	161.66	-55.2	2.3	-6.5	-0.4	-0.08	-2.4	0.2	0.0	0.0	48.5
XF 313, XF 314	Leq,D	113.0	18	145.65	-54.3	2.3	-9.1	-0.4		-3.1	1.0	0.0	0.0	49.4
XF 335-1, XF 335-2	Leq,D	113.4	54	154.60	-54.8	2.4	-7.7	-0.6	-0.08	-2.6	0.1	0.0	0.0	50.3
XF 353A/B	Leq,D	95.4	35	341.11	-61.7	3.1	-17.8	-0.5	0.00	-1.4	0.0	0.0	0.0	17.1
XF 353A/B	Leq,D	95.4	35	316.26	-61.0	2.9	-18.0	-0.5		-1.4	0.0	0.0	0.0	17.5
XF 354A/B	Leq,D	95.4	35	347.56	-61.8	3.2	-15.4	-0.5	0.00	-1.2	0.4	0.0	0.0	20.2
XF 503	Leq,D	113.0	21	184.33	-56.3	2.6	-15.7	-0.8	-0.53	-2.9	0.5	0.0	0.0	40.0
XF - 1601	Leq,D	96.6		142.34	-54.1	2.6	-16.6	-0.2		-0.8	1.1	0.0	0.0	28.6
XF - 1602	Leq,D	96.6		140.54	-53.9	2.6	-9.8	-0.3		-1.3	0.2	0.0	0.0	34.0
XF Module 1510	Leq,D	108.3		149.38	-54.5	2.7	-20.3	-0.6	-0.22	-2.6	0.8	0.0	0.0	33.6
XF Module 1519	Leq,D	109.0		144.67	-54.2	2.7	-20.7	-0.6	-0.19	-2.6	2.5	0.0	0.0	35.9
xxxx xxxx xxxx xxxx	Leq,D		228								6.9			13.0
xxxx xxxx xxxx xxxx	Leq,D		520								5.0			36.3
xxxx xxxx xxxx xxxx	Leq,D		1341								6.0			41.3
xxxx xxxx xxxx xxxx	Leq,D		450								12.2			14.6
Receiver N-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.1 dB(A) Ld 7-19 dB(A) Leq,N 59.1 dB(A) Le 19-22 dB(A) CNEL 65.8 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	128.37	-53.2	3.5	-20.9	-0.7		0.0	6.5	0.0	0.0	39.6
18-1855 A/B	Leq,D	98.8		215.21	-57.6	4.8	-19.4	-0.7		0.0	1.5	0.0	0.0	27.4
18-1856 A/B	Leq,D	98.8		215.38	-57.7	4.8	-19.1	-0.7		0.0	1.6	0.0	0.0	27.8
18-1857 A/B	Leq,D	98.8		215.24	-57.7	4.8	-21.3	-0.8		0.0	1.6	0.0	0.0	25.5
18-1858 A/B	Leq,D	98.8		215.51	-57.7	4.6	-16.6	-0.7		0.0	0.4	0.0	0.0	28.8
18-PK 1802 Air Compressor Package	Leq,D	103.1		228.14	-58.2	5.0	-16.3	-0.4		0.0	0.6	0.0	0.0	33.9
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	300.43	-60.5	5.0	-16.5	-2.0	-0.12	0.0	1.2	-2.7	0.0	33.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Air Compressor C 1	Leq,D	110.0	5	219.73	-57.8	4.4	-22.5	-0.7		0.0	3.7	0.0	0.0	37.0
Air Compressor Pump	Leq,D	100.3		237.66	-58.5	4.8	-24.0	-2.6		0.0	1.9	0.0	0.0	22.0
Blower F 401	Leq,D	113.0		272.84	-59.7	4.3	-19.5	-0.4	-0.26	0.0	0.0	0.0	0.0	37.4
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	352.31	-61.9	4.9	-14.6	-0.7	-1.63	0.0	2.5	0.0	0.0	27.1
Boiler Feed Water Pump A	Leq,D	97.1	3	191.05	-56.6	4.6	-12.0	-0.7		0.0	2.2	0.0	0.0	34.5
Boiler Feed Water Pump B	Leq,D	97.1	3	194.43	-56.8	4.6	-11.8	-0.7		0.0	2.1	0.0	0.0	34.5
C370 A Motor	Leq,D	103.6	3	195.76	-56.8	3.6	-22.5	-0.9		0.0	0.4	0.0	0.0	27.3
C370 B Motor	Leq,D	108.6	3	192.35	-56.7	3.5	-22.5	-0.9		0.0	1.7	0.0	0.0	33.8
C370A	Leq,D	103.8	5	191.59	-56.6	3.6	-22.6	-0.9		0.0	0.2	0.0	0.0	27.4
C370B	Leq,D	103.8	5	188.11	-56.5	3.6	-22.6	-0.9		0.0	1.4	0.0	0.0	28.9
C-270 A	Leq,D	106.3	6	288.70	-60.2	4.4	-4.2	-1.7	-0.64	0.0	1.9	0.0	0.0	45.9
C-270 B	Leq,D	106.3	6	288.09	-60.2	4.4	-4.4	-1.7	-0.34	0.0	2.0	0.0	0.0	46.1
C-270 C	Leq,D	106.3	6	287.49	-60.2	4.4	-4.6	-1.7		0.0	2.1	0.0	0.0	46.3
C-301 Compressor	Leq,D	106.8	3	267.47	-59.5	4.3	-2.5	-1.7	-0.12	0.0	1.8	0.0	0.0	49.1
C-301 Motor	Leq,D	106.8	4	266.61	-59.5	4.3	-3.2	-2.4	-0.13	0.0	1.8	0.0	0.0	47.8
C-351 Compressor	Leq,D	106.8	4	285.76	-60.1	4.4	-9.4	-1.2	-0.50	0.0	3.6	0.0	0.0	43.6
C-351 Motor	Leq,D	106.8	5	290.46	-60.3	4.1	-5.6	-2.5	-0.64	0.0	2.4	0.0	0.0	44.4
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	306.12	-60.7	5.0	-14.1	-0.6	-0.19	0.0	1.6	-33.5	0.0	32.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	269.24	-59.6	4.0	-21.4	-0.7	-0.55	1.8	1.2	0.0	0.0	29.5
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	263.00	-59.4	3.9	-19.1	-0.8	-0.62	0.0	1.2	0.0	0.0	25.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	271.31	-59.7	3.9	-18.0	-0.5	-0.30	3.1	1.0	0.0	0.0	36.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	278.68	-59.9	4.0	-22.9	-0.9	-0.54	-7.1	1.4	0.0	0.0	24.7
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	266.14	-59.5	3.9	-23.3	-1.0	-0.67	-7.1	1.6	0.0	0.0	17.8
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	284.22	-60.1	4.0	-22.4	-1.1	-0.44	-7.8	1.3	0.0	0.0	13.9
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	210.32	-57.4	3.9	-21.2	-0.7		2.4	0.0	0.0	0.0	24.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	219.39	-57.8	3.9	-23.5	-1.1	0.00	-7.8	0.0	0.0	0.0	11.6
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	194.39	-56.8	3.3	-20.4	-0.7		2.7	0.0	0.0	0.0	28.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	206.41	-57.3	3.6	-23.0	-1.0		-7.7	3.3	0.0	0.0	18.6
Cooling Tower M 512	Leq,D	95.7		219.38	-57.8	4.6	-24.4	-1.1		0.0	0.1	0.0	0.0	17.1
Cooling Tower M 513	Leq,D	95.7		220.49	-57.9	4.6	-24.4	-1.1		0.0	0.0	0.0	0.0	17.0
Cooling Tower M 514	Leq,D	95.7		218.40	-57.8	4.6	-24.4	-1.1		0.0	0.0	0.0	0.0	17.0
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	164.64	-55.3	2.6	-5.7	-0.5		-2.6	1.5	0.0	0.0	35.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	120.93	-52.6	3.2	-8.6	-0.1		0.0	0.5	0.0	0.0	37.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	118.90	-52.5	3.3	-9.9	-0.1		0.0	0.5	0.0	0.0	34.5
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	121.16	-52.7	2.8	-4.8	-0.1		0.0	1.0	0.0	0.0	39.7
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	123.19	-52.8	3.2	-12.5	0.0		0.0	0.5	0.0	0.0	31.5
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	121.13	-52.7	3.2	-12.4	0.0		0.0	0.4	0.0	0.0	33.8
FD Motor	Leq,D	103.3	2	120.80	-52.6	3.3	-21.7	-0.9		0.0	6.8	0.0	0.0	38.2
Feed Compressor -B Motor	Leq,D	103.8	5	195.16	-56.8	3.6	-24.1	-1.9		0.0	1.8	0.0	0.0	26.4
Feed Compressor-A Compressor	Leq,D	104.0	5	192.36	-56.7	3.8	-23.8	-1.1		0.0	1.6	0.0	0.0	27.8
Feed Compressor-A Motor	Leq,D	103.8	6	197.47	-56.9	3.6	-24.3	-2.0		0.0	1.9	0.0	0.0	26.0
Feed Compressor-B Compressor	Leq,D	104.0	7	189.32	-56.5	3.7	-23.4	-1.1		0.0	1.5	0.0	0.0	28.2
H2S Compressor 18-C-271	Leq,D	105.3	6	234.29	-58.4	4.3	-21.0	-0.9	-0.23	0.0	1.7	0.0	0.0	30.8
Heater # 5-Heater	Leq,D	91.1	13	348.28	-61.8	4.9	-20.1	-0.8	-1.59	0.0	4.9	0.0	0.0	19.6
Heater # 5-Heater	Leq,D	91.1	13	347.24	-61.8	4.9	-20.8	-0.9	-1.59	0.0	1.4	0.0	0.0	15.3
Heater # 5-Heater	Leq,D	91.1	13	349.37	-61.9	4.9	-19.8	-0.8	-1.59	0.0	5.2	0.0	0.0	20.1
Hydro Heater H-402	Leq,D	98.1		239.41	-58.6	4.4	-18.7	-0.5	-0.31	0.0	0.0	0.0	0.0	24.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	130.32	-53.3	3.6	-8.6	0.0		0.0	0.1	0.0	0.0	28.7
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	132.67	-53.4	3.7	-11.0	0.0		0.0	0.1	0.0	0.0	26.5
ID Fan-ID Fan - North	Leq,D	92.2	8	129.84	-53.3	3.7	-8.8	0.0		0.0	0.1	0.0	0.0	33.9
ID Fan-ID Fan - North 2	Leq,D	91.4	7	130.79	-53.3	3.7	-7.2	0.0		0.0	0.1	0.0	0.0	34.6
ID Fan-ID Fan - South	Leq,D	92.3	9	133.09	-53.5	3.7	-11.8	0.0		0.0	0.1	0.0	0.0	30.8
ID Fan-ID Fan - South 2	Leq,D	91.4	7	132.29	-53.4	3.7	-11.9	0.0		0.0	0.1	0.0	0.0	29.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	131.49	-53.4	2.9	-5.3	0.0		0.0	0.2	0.0	0.0	38.3
Motor & Pump P 56A/B	Leq,D	93.7		236.03	-58.5	4.7	-22.0	-1.4	-0.52	0.0	1.3	0.0	0.0	17.3
Motor & Pump P 120/121	Leq,D	96.2	2	224.40	-58.0	4.5	-22.2	-0.9	-0.20	0.0	1.7	0.0	0.0	21.1
Motor & Pump P 211/212	Leq,D	93.7		266.60	-59.5	4.9	-24.3	-2.0	-0.43	0.0	0.0	0.0	0.0	12.3
Motor & Pump P 215/214	Leq,D	94.6		263.79	-59.4	4.9	-9.1	-1.6	-1.05	0.0	0.5	0.0	0.0	28.9
Motor & Pump P 216	Leq,D	98.3		271.63	-59.7	4.8	-7.3	-1.8	-1.21	0.0	0.1	0.0	0.0	33.3
Motor & Pump P 217/218	Leq,D	93.7		265.63	-59.5	5.1	-19.0	-1.0	-1.09	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 300	Leq,D	97.1	2	234.39	-58.4	4.5	-21.9	-0.9		0.0	2.4	0.0	0.0	22.8
Motor & Pump P 301	Leq,D	102.1	2	235.06	-58.4	4.5	-21.4	-0.9		0.0	2.7	0.0	0.0	28.6
Motor & Pump P 302	Leq,D	97.1	2	233.69	-58.4	4.5	-21.0	-0.8		0.0	1.3	0.0	0.0	22.6
Motor & Pump P 303	Leq,D	97.1	2	233.20	-58.3	4.4	-21.4	-0.9		0.0	2.4	0.0	0.0	23.3
Motor & Pump P 305	Leq,D	97.5	2	232.64	-58.3	4.4	-22.6	-0.9		0.0	1.8	0.0	0.0	21.9
Motor & Pump P 306	Leq,D	112.6	4	229.25	-58.2	4.1	-22.7	-1.3		0.0	1.2	0.0	0.0	35.7
Motor & Pump P 307	Leq,D	102.1	2	237.05	-58.5	4.5	-21.7	-0.9	-0.15	0.0	3.7	0.0	0.0	29.1
Motor & Pump P 309	Leq,D	97.5	2	232.08	-58.3	4.4	-23.6	-1.0		0.0	2.0	0.0	0.0	21.0
Motor & Pump P 312	Leq,D	101.5	2	247.01	-58.8	4.8	-21.9	-0.9	-0.25	0.0	2.4	0.0	0.0	26.8
Motor & Pump P 313	Leq,D	101.5	2	247.90	-58.9	4.8	-21.9	-0.9	-0.25	0.0	2.7	0.0	0.0	27.1
Motor & Pump P 315	Leq,D	102.9	2	251.38	-59.0	4.7	-21.4	-0.9	-0.32	0.0	3.0	0.0	0.0	29.0
Motor & Pump P 316	Leq,D	102.9	2	252.42	-59.0	4.7	-21.4	-0.9	-0.41	0.0	2.2	0.0	0.0	28.1
Motor & Pump P 317	Leq,D	102.9	2	253.37	-59.1	4.7	-21.3	-0.9	-0.40	0.0	2.3	0.0	0.0	28.2
Motor & Pump P 318	Leq,D	100.2	1	249.94	-58.9	4.9	-21.6	-0.9	-0.34	0.0	3.5	0.0	0.0	26.8
Motor & Pump P 319	Leq,D	100.2	1	249.18	-58.9	4.9	-21.6	-0.9	-0.30	0.0	2.8	0.0	0.0	26.1
Motor & Pump P 327	Leq,D	111.2	3	227.30	-58.1	4.5	-23.6	-1.6		0.0	3.6	0.0	0.0	36.0
Motor & Pump P 328	Leq,D	109.9	5	231.27	-58.3	4.2	-23.4	-1.0		0.0	1.8	0.0	0.0	33.3
Motor & Pump P 329	Leq,D	110.2	5	230.24	-58.2	4.3	-23.6	-1.0		0.0	1.9	0.0	0.0	33.5
Motor & Pump P 451	Leq,D	93.7		243.05	-58.7	4.8	-21.4	-1.2	-0.06	0.0	0.0	0.0	0.0	17.0
Motor & Pump P 453	Leq,D	93.7		248.90	-58.9	4.8	-23.6	-1.7		0.0	1.1	0.0	0.0	15.3
Motor & Pump P 454	Leq,D	93.7		243.88	-58.7	4.8	-23.4	-1.8		0.0	0.0	0.0	0.0	14.5
Motor & Pump P 457	Leq,D	93.7		249.97	-58.9	4.8	-23.6	-1.7		0.0	0.0	0.0	0.0	14.2
Motor & Pump P 458	Leq,D	93.7		242.19	-58.7	4.8	-22.3	-1.4	-0.03	0.0	0.1	0.0	0.0	16.1
Motor & Pump P 459	Leq,D	93.7		243.22	-58.7	4.8	-23.4	-1.8		0.0	0.0	0.0	0.0	14.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		213.53	-57.6	4.7	-22.5	-1.2	-0.36	0.0	1.5	0.0	0.0	20.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		212.48	-57.5	4.7	-22.4	-1.2	-0.36	0.0	1.4	0.0	0.0	20.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		185.89	-56.4	4.5	-24.1	-1.5	-0.15	0.0	2.6	0.0	0.0	20.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		185.29	-56.3	4.5	-24.1	-1.5	-0.10	0.0	2.6	0.0	0.0	20.4
Motor & Pump P 1601 A	Leq,D	96.3	2	191.73	-56.6	4.3	-23.3	-1.4		0.0	2.0	0.0	0.0	21.2
Motor & Pump P 1601 B	Leq,D	96.3	2	190.61	-56.6	4.3	-23.4	-1.4		0.0	2.0	0.0	0.0	21.2
Motor & Pump P 1602 A	Leq,D	96.3	2	189.91	-56.6	4.3	-23.4	-1.4		0.0	1.9	0.0	0.0	21.1
Motor & Pump P 1602 B	Leq,D	96.5	2	188.84	-56.5	4.3	-23.4	-1.4		0.0	0.0	0.0	0.0	19.4
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	205.92	-57.3	4.7	-23.2	-1.3	-0.22	0.0	0.0	0.0	0.0	19.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	202.89	-57.1	4.7	-23.1	-1.3	-0.21	0.0	1.3	0.0	0.0	20.9
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	201.35	-57.1	4.7	-22.9	-1.2	-0.21	0.0	1.9	0.0	0.0	21.8
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	211.13	-57.5	4.7	-22.1	-1.1	-0.37	0.0	1.2	0.0	0.0	21.6
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	210.03	-57.4	4.7	-13.0	-1.6	-0.34	0.0	0.0	0.0	0.0	29.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	192.83	-56.7	4.7	-23.2	-1.3	-0.03	0.0	1.7	0.0	0.0	21.4
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	194.63	-56.8	4.7	-22.8	-1.2	-0.09	0.0	1.4	0.0	0.0	21.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	197.88	-56.9	4.7	-13.3	-1.6	-0.19	0.0	0.2	0.0	0.0	29.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	196.46	-56.9	4.7	-14.7	-1.5	-0.15	0.0	0.3	0.0	0.0	28.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	195.81	-56.8	4.0	-22.7	-1.0		0.0	1.9	0.0	0.0	29.5
P-2 A/B	Leq,D	98.5		350.63	-61.9	5.4	-15.2	-1.0		0.0	0.4	0.0	0.0	26.2
P-50 A/B	Leq,D	98.1		314.09	-60.9	5.3	-23.6	-1.3	-0.59	0.0	1.9	0.0	0.0	18.9
P-51 A/B	Leq,D	98.1		317.93	-61.0	5.3	-23.4	-1.3	-0.59	0.0	1.8	0.0	0.0	19.0
P-060 A/B	Leq,D	98.1		304.54	-60.7	5.3	-18.0	-0.9	-0.54	0.0	1.9	0.0	0.0	25.2
P-63	Leq,D	98.5		345.58	-61.8	5.4	-15.5	-1.1	-0.45	0.0	0.4	0.0	0.0	25.5
P-70 A/B	Leq,D	98.1		308.79	-60.8	5.3	-17.9	-0.9	-0.55	0.0	2.2	0.0	0.0	25.4
P-73 A/B	Leq,D	98.5		348.55	-61.8	5.4	-19.4	-1.1	-0.14	0.0	1.0	0.0	0.0	22.3
P-251 A/B	Leq,D	98.2		266.65	-59.5	5.3	-16.4	-0.8	-0.46	0.0	6.0	0.0	0.0	32.3
P-252 A/B	Leq,D	98.2		255.69	-59.1	5.3	-14.2	-0.8	-0.20	0.0	3.6	0.0	0.0	32.7
P-253	Leq,D	98.2		255.46	-59.1	5.3	-7.6	-1.0	-0.20	0.0	1.1	0.0	0.0	36.6
P-254 A/B	Leq,D	98.2		266.16	-59.5	5.3	-7.4	-1.0	-0.43	0.0	1.2	0.0	0.0	36.3
P-255 A/B	Leq,D	98.2		266.23	-59.5	5.3	-13.9	-0.9	-0.44	0.0	2.3	0.0	0.0	31.1
P-255 A/B	Leq,D	98.2		267.02	-59.5	5.3	-11.0	-0.9	-0.45	0.0	2.3	0.0	0.0	33.9
P-256 A/B	Leq,D	98.2		266.39	-59.5	5.3	-13.8	-0.9	-0.44	0.0	3.7	0.0	0.0	32.5
P-259 A/B	Leq,D	98.2		266.80	-59.5	5.3	-11.0	-0.9	-0.45	0.0	2.3	0.0	0.0	33.9
P-260	Leq,D	99.1		257.15	-59.2	5.3	-7.1	-1.0	-0.20	0.0	2.4	0.0	0.0	39.3
P-261 A/B	Leq,D	98.0		261.28	-59.3	5.3	-23.6	-1.1	-0.20	0.0	1.7	0.0	0.0	20.8
P-262 A/B	Leq,D	99.1		258.30	-59.2	5.3	-23.2	-1.1	-0.20	0.0	1.8	0.0	0.0	22.5
P-263 A/B	Leq,D	99.4		257.53	-59.2	5.3	-7.1	-1.0	-0.19	0.0	0.1	0.0	0.0	37.2
P-270 A/B	Leq,D	98.5		267.24	-59.5	5.3	-5.7	-1.2	-0.21	0.0	2.4	0.0	0.0	39.5
P-271 A/B	Leq,D	98.2		266.22	-59.5	5.3	-11.5	-0.9	-0.44	0.0	2.1	0.0	0.0	33.3
P-272 A/B	Leq,D	98.2		266.14	-59.5	5.3	-11.6	-0.9	-0.44	0.0	1.7	0.0	0.0	32.7
P-273 A/B	Leq,D	98.5		266.80	-59.5	5.3	-5.8	-1.2	-0.13	0.0	2.4	0.0	0.0	39.5
P-275 A/B/C	Leq,D	98.2		255.26	-59.1	5.3	-12.8	-0.8	-0.19	0.0	2.2	0.0	0.0	32.7
P-305	Leq,D	99.3		326.69	-61.3	5.4	-5.2	-1.5	-1.40	0.0	2.3	0.0	0.0	37.6
P-306	Leq,D	100.8		328.69	-61.3	5.4	-14.3	-1.0	-1.55	0.0	3.7	0.0	0.0	31.6
P-309	Leq,D	99.3		327.07	-61.3	5.4	-5.1	-1.5	-1.48	0.0	2.3	0.0	0.0	37.5
P-328	Leq,D	100.8		330.06	-61.4	5.4	-14.2	-1.0	-1.55	0.0	7.0	0.0	0.0	34.9
P-329	Leq,D	100.8		329.26	-61.3	5.4	-14.4	-1.0	-1.55	0.0	9.7	0.0	0.0	37.6
P-353	Leq,D	98.5		313.25	-60.9	5.1	-3.8	-1.4	-1.18	0.0	1.8	0.0	0.0	38.0
P-358 A/B	Leq,D	99.4		294.05	-60.4	5.3	-4.8	-1.5	-0.64	0.0	0.2	0.0	0.0	37.6
P-359 A/B	Leq,D	99.4		298.67	-60.5	5.3	-4.8	-1.5	-0.75	0.0	0.3	0.0	0.0	37.6
P-360 A/B	Leq,D	99.4		307.65	-60.8	5.3	-1.9	-1.5	-0.95	0.0	1.3	0.0	0.0	41.0
P-361A	Leq,D	98.1		285.29	-60.1	5.0	-17.0	-0.9	-0.28	0.0	0.5	0.0	0.0	25.3
P-371 A/B	Leq,D	98.0		211.15	-57.5	4.7	-23.6	-0.9		0.0	0.0	0.0	0.0	20.7
P-373 A/B	Leq,D	98.0		199.93	-57.0	4.6	-23.8	-0.9		0.0	1.9	0.0	0.0	22.9
P-374 A/B	Leq,D	98.0		201.86	-57.1	4.7	-23.8	-0.9		0.0	2.1	0.0	0.0	23.0
P-375 A/B	Leq,D	98.0		206.39	-57.3	4.7	-23.5	-0.9		0.0	1.8	0.0	0.0	22.8
P-376	Leq,D	98.0		203.20	-57.2	4.7	-23.7	-0.9		0.0	1.5	0.0	0.0	22.4
P-376 A/B	Leq,D	98.0		197.78	-56.9	4.6	-24.5	-1.0		0.0	1.0	0.0	0.0	21.2
P-377	Leq,D	98.0		204.32	-57.2	4.7	-23.6	-0.9		0.0	1.8	0.0	0.0	22.8
P-1101 A	Leq,D	98.9		329.16	-61.3	5.1	-17.2	-0.9		0.0	0.5	0.0	0.0	25.0
P-1103	Leq,D	98.9		328.42	-61.3	5.1	-14.2	-1.0		0.0	0.3	0.0	0.0	27.8
P-1105 A/B/C	Leq,D	98.9		331.64	-61.4	5.1	-16.8	-1.0		0.0	0.5	0.0	0.0	25.3
P-1800	Leq,D	98.9		381.35	-62.6	5.4	-12.2	-1.2		0.0	0.7	0.0	0.0	29.0
P-1801	Leq,D	98.9		404.30	-63.1	5.4	-24.8	-1.9		0.0	5.1	0.0	0.0	19.5
P-1802	Leq,D	98.9		402.20	-63.1	5.4	-24.9	-1.9		0.0	4.4	0.0	0.0	18.9
P-1803	Leq,D	99.1		280.06	-59.9	5.3	-12.2	-0.9		0.0	0.6	0.0	0.0	31.8
P-1804	Leq,D	99.1		299.99	-60.5	5.3	-24.6	-1.4		0.0	1.9	0.0	0.0	19.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1805	Leq,D	99.1		301.50	-60.6	5.3	-24.7	-1.4		0.0	2.0	0.0	0.0	19.6
P-1806	Leq,D	99.1		269.44	-59.6	5.3	-10.1	-0.9		0.0	0.4	0.0	0.0	34.1
P-1809 A	Leq,D	98.9		382.95	-62.7	5.4	-23.1	-1.4		0.0	1.7	0.0	0.0	18.8
P-1810 A/B/C	Leq,D	99.0		292.63	-60.3	5.3	-24.9	-1.4		0.0	2.0	0.0	0.0	19.7
P-1811 A/B	Leq,D	99.1		272.41	-59.7	5.3	-17.4	-0.8		0.0	0.4	0.0	0.0	26.8
P-1811 A/B	Leq,D	99.1		303.48	-60.6	5.3	-24.6	-1.4		0.0	3.3	0.0	0.0	21.0
P-1847 A/B	Leq,D	99.4		217.89	-57.8	5.1	-22.0	-0.8		0.0	1.8	0.0	0.0	25.8
P-1849 A/B	Leq,D	99.4		221.71	-57.9	5.1	-21.9	-0.8		0.0	1.8	0.0	0.0	25.7
P-1853	Leq,D	99.1		307.39	-60.7	5.3	-9.0	-1.1	-0.74	0.0	2.4	0.0	0.0	35.2
Piping Furnace Tanks	Leq,D	87.1	72	149.09	-54.5	2.8	-21.9	-3.6		0.0	1.6	0.0	0.0	11.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	166.97	-55.4	2.8	-24.5	-4.9		0.0	2.0	0.0	0.0	18.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	155.54	-54.8	3.0	-24.9	-1.5		0.0	0.9	0.0	0.0	37.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	155.36	-54.8	3.0	-24.9	-5.1		0.0	2.9	0.0	0.0	36.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	293.48	-60.3	3.4	-23.6	-1.3		0.0	0.3	0.0	0.0	29.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	262.46	-59.4	3.3	-18.4	-0.8		0.0	0.3	0.0	0.0	36.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	249.70	-58.9	3.3	-15.1	-0.8		0.0	0.9	0.0	0.0	33.4
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	291.81	-60.3	3.4	-23.3	-1.2		0.0	1.0	0.0	0.0	30.7
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	262.78	-59.4	3.3	-22.2	-1.0		0.0	1.9	0.0	0.0	26.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	249.49	-58.9	3.3	-18.4	-0.8		0.0	0.1	0.0	0.0	28.9
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	253.27	-59.1	3.3	-15.1	-0.8		0.0	1.0	0.0	0.0	36.1
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	271.38	-59.7	3.3	-21.1	-1.0		0.0	1.0	0.0	0.0	28.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	275.09	-59.8	2.6	-18.5	-0.9		0.0	0.8	0.0	0.0	37.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	147.11	-54.3	2.8	-22.8	-1.3		0.0	1.7	0.0	0.0	6.6
PSA Skid Additional Piping w NC	Leq,D	116.6	57	157.23	-54.9	3.0	-24.9	-1.5		0.0	1.0	0.0	0.0	39.2
Reformer-Burner Reformer East	Leq,D	97.3	269	128.35	-53.2	2.7	-11.7	-0.7		0.0	0.3	0.0	0.0	37.8
Reformer-Burner Reformer North	Leq,D	95.9	192	137.04	-53.7	2.7	-24.3	-1.2		0.0	2.6	0.0	0.0	22.0
Reformer-Burner Reformer South	Leq,D	95.8	191	132.68	-53.4	2.7	-2.9	-1.4		0.0	1.2	0.0	0.0	45.0
Reformer-Burner Reformer West	Leq,D	97.3	268	141.57	-54.0	2.7	-21.1	-0.8		0.0	0.8	0.0	0.0	27.9
RFG A from battery to process	Leq,D	99.4	87	165.33	-55.4	2.8	-24.5	-4.9		0.0	2.2	0.0	0.0	19.7
RFG A from battery to process w NC	Leq,D	115.2	42	152.99	-54.7	3.0	-24.9	-5.1		0.0	2.6	0.0	0.0	36.1
Stack Noise	Leq,D	108.4		134.74	-53.6	2.7	-1.3	-1.4		-8.2	1.4	0.0	0.0	48.0
Steam Turbine-Facade 01	Leq,D	99.6	29	174.90	-55.8	4.2	-24.7	-3.8		0.0	1.9	0.0	0.0	21.3
Steam Turbine-Facade 02	Leq,D	96.2	13	171.22	-55.7	4.2	-24.7	-3.8		0.0	2.1	0.0	0.0	18.4
Steam Turbine-Facade 03	Leq,D	99.6	29	171.75	-55.7	4.1	-24.6	-3.7		0.0	1.4	0.0	0.0	21.1
Steam Turbine-Facade 04	Leq,D	96.2	13	175.49	-55.9	4.2	-24.7	-3.9		0.0	0.5	0.0	0.0	16.4
Steam Turbine-Roof 01	Leq,D	99.7	30	173.33	-55.8	3.2	-24.4	-3.5		0.0	1.7	0.0	0.0	20.9
Tank Farm Pump 1	Leq,D	99.0	3	193.04	-56.7	4.7	-20.0	-1.0		0.0	2.2	0.0	0.0	28.2
Tank Farm Pump 2	Leq,D	99.0	3	205.93	-57.3	4.7	-18.8	-1.0		0.0	1.0	0.0	0.0	27.7
Tank Farm Pump 3	Leq,D	99.0	3	209.93	-57.4	4.7	-15.1	-1.0		0.0	0.4	0.0	0.0	30.7
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	372.38	-62.4	4.2	-10.2	-4.2	-0.03	0.0	0.3	-11.8	0.0	28.3
XF-1502 Splitter Area 1	Leq,D	104.5		198.75	-57.0	2.7	-7.3	-1.0	-0.05	-3.8	0.0	0.0	0.0	38.1
XF-1502 Splitter Area 2	Leq,D	104.5		201.10	-57.1	2.7	-10.4	-0.9	-0.04	-3.4	0.0	0.0	0.0	35.4
XF-1504 Splitter Area 1	Leq,D	104.5		195.32	-56.8	2.7	-10.5	-0.8	-0.03	-3.4	0.0	0.0	0.0	35.6
XF-1504 Splitter Area 2	Leq,D	104.5		197.71	-56.9	2.7	-12.6	-0.8	-0.03	-3.2	0.0	0.0	0.0	33.7
XF 251, 250, 271, 270	Leq,D	101.1	128	261.06	-59.3	2.6	-5.1	-0.9		-2.7	1.3	0.0	0.0	37.0
XF 260, 261A, 261 B	Leq,D	99.9	97	264.99	-59.5	2.6	-18.8	-0.4	0.00	-1.4	0.6	0.0	0.0	23.0
XF 304, XF 321	Leq,D	110.5	56	241.15	-58.6	2.0	-17.0	-0.4	-0.04	-1.4	0.2	0.0	0.0	35.2
XF 313, XF 314	Leq,D	113.0	18	230.75	-58.3	1.9	-18.7	-0.6		-2.5	0.3	0.0	0.0	35.2

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
XF 335-1, XF 335-2	Leq,D	113.4	54	236.44	-58.5	2.1	-17.8	-0.5	-0.04	-1.5	0.2	0.0	0.0	37.4
XF 353A/B	Leq,D	95.4	35	304.14	-60.7	2.9	-4.3	-0.7	-0.01	-2.2	0.3	0.0	0.0	30.6
XF 353A/B	Leq,D	95.4	35	280.12	-59.9	2.6	-3.0	-1.5		-3.1	1.4	0.0	0.0	31.9
XF 354A/B	Leq,D	95.4	35	319.85	-61.1	3.0	-2.9	-1.0	-0.02	-2.6	1.0	0.0	0.0	31.7
XF 503	Leq,D	113.0	21	250.26	-59.0	2.5	-17.2	-0.8	-0.48	-2.6	0.8	0.0	0.0	36.3
XF - 1601	Leq,D	96.6		191.48	-56.6	2.5	-15.1	-0.3		-1.0	0.0	0.0	0.0	26.1
XF - 1602	Leq,D	96.6		187.27	-56.4	2.5	-15.7	-0.3		-1.0	0.0	0.0	0.0	25.7
XF Module 1510	Leq,D	108.3		207.97	-57.4	2.7	-9.7	-0.9	-0.27	-3.5	0.0	0.0	0.0	39.2
XF Module 1519	Leq,D	109.0		204.63	-57.2	2.6	-5.0	-1.3	-0.29	-4.1	0.0	0.0	0.0	43.7
xxxx xxxx xxxx xxxx	Leq,D		228								7.8			12.9
xxxx xxxx xxxx xxxx	Leq,D		520								4.8			38.9
xxxx xxxx xxxx xxxx	Leq,D		1341								5.9			43.3
xxxx xxxx xxxx xxxx	Leq,D		450								7.1			16.0
Receiver N-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 55.8 dB(A) Ld 7-19 dB(A) Leq,N 56.0 dB(A) Le 19-22 dB(A) CNEL 62.6 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	169.36	-55.6	4.0	-22.0	-1.1		0.0	2.6	0.0	0.0	32.2
18-1855 A/B	Leq,D	98.8		243.65	-58.7	4.9	-19.1	-0.8		0.0	0.0	0.0	0.0	25.1
18-1856 A/B	Leq,D	98.8		240.45	-58.6	4.9	-18.6	-0.8		0.0	0.2	0.0	0.0	25.9
18-1857 A/B	Leq,D	98.8		246.87	-58.8	4.9	-19.6	-0.9		0.0	0.1	0.0	0.0	24.4
18-1858 A/B	Leq,D	98.8		249.29	-58.9	4.7	-11.6	-0.8		0.0	0.0	0.0	0.0	32.2
18-PK 1802 Air Compressor Package	Leq,D	103.1		248.54	-58.9	5.0	-16.1	-0.4		0.0	0.1	0.0	0.0	32.8
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	365.20	-62.2	5.1	-16.6	-1.0	-0.15	0.0	0.2	-2.7	0.0	31.5
Air Compressor C 1	Leq,D	110.0	5	329.14	-61.3	4.2	-22.2	-1.0		0.0	3.5	0.0	0.0	33.1
Air Compressor Pump	Leq,D	100.3		294.65	-60.4	5.0	-22.0	-2.2		0.0	0.0	0.0	0.0	20.7
Blower F 401	Leq,D	113.0		362.83	-62.2	4.3	-16.2	-0.4	-0.20	0.0	0.0	0.0	0.0	38.3
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	346.58	-61.8	4.9	-7.9	-0.9	-1.62	0.0	0.6	0.0	0.0	31.8
Boiler Feed Water Pump A	Leq,D	97.1	3	219.06	-57.8	4.7	-13.6	-0.7		0.0	0.0	0.0	0.0	29.7
Boiler Feed Water Pump B	Leq,D	97.1	3	221.93	-57.9	4.7	-14.5	-0.7		0.0	0.1	0.0	0.0	28.7
C370 A Motor	Leq,D	103.6	3	261.74	-59.3	4.0	-21.0	-1.1		0.0	0.3	0.0	0.0	26.4
C370 B Motor	Leq,D	108.6	3	254.47	-59.1	4.0	-18.0	-1.0		0.0	0.0	0.0	0.0	34.6
C370A	Leq,D	103.8	5	258.53	-59.2	4.1	-21.9	-1.2		0.0	0.0	0.0	0.0	25.6
C370B	Leq,D	103.8	5	251.18	-59.0	4.1	-19.3	-1.0		0.0	0.1	0.0	0.0	28.6
C-270 A	Leq,D	106.3	6	293.85	-60.4	4.5	-8.8	-1.1	-0.64	0.0	0.2	0.0	0.0	40.1
C-270 B	Leq,D	106.3	6	295.17	-60.4	4.5	-9.6	-1.1	-0.65	0.0	0.3	0.0	0.0	39.3
C-270 C	Leq,D	106.3	6	296.47	-60.4	4.5	-9.8	-1.1	-0.45	0.0	0.3	0.0	0.0	39.3
C-301 Compressor	Leq,D	106.8	3	266.24	-59.5	4.3	-6.9	-1.1	-0.12	0.0	0.0	0.0	0.0	43.5
C-301 Motor	Leq,D	106.8	4	267.02	-59.5	4.3	-9.5	-1.4	-0.14	0.0	0.0	0.0	0.0	40.6
C-351 Compressor	Leq,D	106.8	4	283.34	-60.0	4.4	-4.1	-1.8	-0.50	0.0	0.0	0.0	0.0	44.8
C-351 Motor	Leq,D	106.8	5	288.08	-60.2	4.1	-1.0	-3.5	-0.60	0.0	0.0	0.0	0.0	45.7
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	375.47	-62.5	5.0	-13.9	-0.5	-0.30	0.0	0.0	-33.5	0.0	29.1
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	369.57	-62.3	4.2	-20.4	-0.9	-1.00	0.9	0.1	0.0	0.0	25.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	363.80	-62.2	4.2	-19.7	-1.1	-0.69	0.0	0.0	0.0	0.0	21.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	373.48	-62.4	4.1	-17.7	-0.7	-0.37	4.0	0.0	0.0	0.0	33.4
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	379.46	-62.6	4.2	-22.7	-1.2	-0.77	-5.8	0.1	0.0	0.0	21.9
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	366.69	-62.3	4.1	-22.1	-1.1	-1.01	-5.8	0.2	0.0	0.0	15.7
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	386.50	-62.7	4.2	-22.5	-1.5	-0.45	-7.8	0.0	0.0	0.0	9.6
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	302.50	-60.6	4.2	-20.4	-0.9		1.1	0.0	0.0	0.0	21.3
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	313.47	-60.9	4.2	-22.7	-1.3		-7.8	0.1	0.0	0.0	9.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	281.73	-60.0	3.8	-16.6	-0.7		1.3	0.1	0.0	0.0	28.4

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	297.23	-60.5	4.0	-22.9	-1.3		-7.8	6.0	0.0	0.0	18.3
Cooling Tower M 512	Leq,D	95.7		311.17	-60.9	4.8	-23.9	-1.4		0.0	0.0	0.0	0.0	14.4
Cooling Tower M 513	Leq,D	95.7		312.49	-60.9	4.8	-23.8	-1.4		0.0	0.0	0.0	0.0	14.4
Cooling Tower M 514	Leq,D	95.7		309.92	-60.8	4.8	-23.5	-1.4		0.0	0.0	0.0	0.0	14.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	201.80	-57.1	2.5	-13.0	-0.3		-1.4	0.1	0.0	0.0	26.6
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	172.13	-55.7	3.7	-12.4	0.0		0.0	0.1	0.0	0.0	31.0
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	171.61	-55.7	3.8	-13.7	0.0		0.0	0.0	0.0	0.0	27.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	173.10	-55.8	2.7	-11.2	0.0		0.0	0.1	0.0	0.0	29.3
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	174.56	-55.8	3.7	-12.6	0.0		0.0	0.1	0.0	0.0	28.5
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	174.02	-55.8	3.7	-13.8	0.0		0.0	0.1	0.0	0.0	29.4
FD Motor	Leq,D	103.3	2	171.26	-55.7	4.0	-22.5	-1.4		0.0	4.0	0.0	0.0	31.6
Feed Compressor -B Motor	Leq,D	103.8	5	241.94	-58.7	3.9	-17.6	-1.4		0.0	0.3	0.0	0.0	30.4
Feed Compressor-A Compressor	Leq,D	104.0	5	246.38	-58.8	4.1	-18.1	-0.8		0.0	0.0	0.0	0.0	30.4
Feed Compressor-A Motor	Leq,D	103.8	6	250.38	-59.0	4.0	-19.4	-1.4		0.0	0.0	0.0	0.0	28.0
Feed Compressor-B Compressor	Leq,D	104.0	7	237.25	-58.5	4.1	-13.6	-0.9		0.0	0.1	0.0	0.0	35.2
H2S Compressor 18-C-271	Leq,D	105.3	6	338.61	-61.6	4.5	-19.6	-1.1	-0.43	0.0	0.0	0.0	0.0	27.1
Heater # 5-Heater	Leq,D	91.1	13	343.09	-61.7	4.9	-14.0	-0.6	-1.45	0.0	3.7	0.0	0.0	24.9
Heater # 5-Heater	Leq,D	91.1	13	343.74	-61.7	4.9	-14.2	-0.6	-1.44	0.0	0.0	0.0	0.0	21.0
Heater # 5-Heater	Leq,D	91.1	13	342.52	-61.7	4.9	-17.9	-0.7	-1.55	0.0	0.2	0.0	0.0	17.4
Hydro Heater H-402	Leq,D	98.1		335.00	-61.5	4.5	-22.6	-1.1		0.0	0.0	0.0	0.0	17.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	170.10	-55.6	4.1	-10.2	0.0		0.0	0.2	0.0	0.0	25.4
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	171.85	-55.7	4.1	-13.1	0.0		0.0	0.0	0.0	0.0	22.5
ID Fan-ID Fan - North	Leq,D	92.2	8	170.68	-55.6	4.1	-11.0	0.0		0.0	0.0	0.0	0.0	29.7
ID Fan-ID Fan - North 2	Leq,D	91.4	7	169.67	-55.6	4.1	-8.3	0.0		0.0	0.0	0.0	0.0	31.6
ID Fan-ID Fan - South	Leq,D	92.3	9	173.13	-55.8	4.1	-13.3	0.0		0.0	0.0	0.0	0.0	27.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	170.80	-55.6	4.1	-14.9	0.0		0.0	0.0	0.0	0.0	24.9
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	171.45	-55.7	3.3	-11.8	0.0		0.0	0.2	0.0	0.0	29.9
Motor & Pump P 56A/B	Leq,D	93.7		335.47	-61.5	4.9	-22.7	-1.9	-0.46	0.0	0.3	0.0	0.0	12.2
Motor & Pump P 120/121	Leq,D	96.2	2	332.07	-61.4	4.5	-21.6	-1.2	-0.23	0.0	0.0	0.0	0.0	16.3
Motor & Pump P 211/212	Leq,D	93.7		363.70	-62.2	5.0	-23.1	-2.2	-0.63	0.0	0.0	0.0	0.0	10.5
Motor & Pump P 215/214	Leq,D	94.6		361.79	-62.2	5.0	-21.2	-1.7	-0.92	0.0	1.0	0.0	0.0	14.7
Motor & Pump P 216	Leq,D	98.3		369.48	-62.3	4.9	-21.0	-1.7	-1.00	0.0	0.0	0.0	0.0	17.2
Motor & Pump P 217/218	Leq,D	93.7		363.09	-62.2	5.2	-23.7	-2.4	-0.39	0.0	0.2	0.0	0.0	10.3
Motor & Pump P 300	Leq,D	97.1	2	342.92	-61.7	4.5	-21.1	-1.2		0.0	0.0	0.0	0.0	17.7
Motor & Pump P 301	Leq,D	102.1	2	343.37	-61.7	4.5	-21.0	-1.2	-0.12	0.0	0.0	0.0	0.0	22.6
Motor & Pump P 302	Leq,D	97.1	2	342.45	-61.7	4.5	-22.4	-1.3		0.0	0.1	0.0	0.0	16.3
Motor & Pump P 303	Leq,D	97.1	2	342.15	-61.7	4.4	-21.0	-1.2		0.0	0.0	0.0	0.0	17.7
Motor & Pump P 305	Leq,D	97.5	2	341.77	-61.7	4.4	-21.9	-1.2		0.0	0.3	0.0	0.0	17.3
Motor & Pump P 306	Leq,D	112.6	4	339.47	-61.6	4.0	-22.1	-1.6		0.0	0.2	0.0	0.0	31.5
Motor & Pump P 307	Leq,D	102.1	2	344.73	-61.7	4.5	-21.0	-1.2	-0.23	0.0	1.2	0.0	0.0	23.7
Motor & Pump P 309	Leq,D	97.5	2	341.40	-61.7	4.4	-23.3	-1.4		0.0	0.2	0.0	0.0	15.7
Motor & Pump P 312	Leq,D	101.5	2	351.57	-61.9	4.8	-19.9	-1.1	-0.55	0.0	0.0	0.0	0.0	22.8
Motor & Pump P 313	Leq,D	101.5	2	352.19	-61.9	4.8	-21.6	-1.2	-0.55	0.0	0.0	0.0	0.0	21.0
Motor & Pump P 315	Leq,D	102.9	2	354.71	-62.0	4.7	-22.6	-1.3	-0.24	0.0	0.9	0.0	0.0	22.5
Motor & Pump P 316	Leq,D	102.9	2	355.43	-62.0	4.8	-21.5	-1.2	-0.56	0.0	1.3	0.0	0.0	23.7
Motor & Pump P 317	Leq,D	102.9	2	356.08	-62.0	4.7	-21.5	-1.2	-0.56	0.0	0.0	0.0	0.0	22.3
Motor & Pump P 318	Leq,D	100.2	1	353.53	-62.0	4.9	-22.2	-1.2	-0.56	0.0	0.2	0.0	0.0	19.3
Motor & Pump P 319	Leq,D	100.2	1	353.00	-61.9	4.9	-22.4	-1.3	-0.55	0.0	0.0	0.0	0.0	18.9
Motor & Pump P 327	Leq,D	111.2	3	338.41	-61.6	4.5	-23.6	-2.2		0.0	1.2	0.0	0.0	29.6
Motor & Pump P 328	Leq,D	109.9	5	340.80	-61.6	4.3	-23.0	-1.4		0.0	0.1	0.0	0.0	28.3
Motor & Pump P 329	Leq,D	110.2	5	340.11	-61.6	4.3	-23.2	-1.3		0.0	0.1	0.0	0.0	28.4
Motor & Pump P 451	Leq,D	93.7		337.19	-61.5	4.9	-22.7	-1.9		0.0	0.0	0.0	0.0	12.4
Motor & Pump P 453	Leq,D	93.7		340.43	-61.6	4.9	-22.6	-1.9		0.0	0.4	0.0	0.0	12.9
Motor & Pump P 454	Leq,D	93.7		338.30	-61.6	4.9	-22.7	-1.9		0.0	0.9	0.0	0.0	13.3
Motor & Pump P 457	Leq,D	93.7		341.21	-61.7	4.9	-22.5	-1.8		0.0	0.4	0.0	0.0	13.0
Motor & Pump P 458	Leq,D	93.7		336.18	-61.5	4.9	-22.8	-1.9		0.0	0.0	0.0	0.0	12.4

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		337.83	-61.6	4.9	-22.7	-1.9		0.0	0.0	0.0	0.0	12.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		311.46	-60.9	4.9	-22.0	-1.6	-0.32	0.0	0.0	0.0	0.0	16.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		310.75	-60.8	4.9	-22.0	-1.6	-0.32	0.0	2.4	0.0	0.0	18.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		289.77	-60.2	4.7	-24.1	-2.2	-0.20	0.0	0.1	0.0	0.0	13.5
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		289.39	-60.2	4.7	-21.5	-1.4	-0.15	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 1601 A	Leq,D	96.3	2	285.76	-60.1	4.6	-22.2	-1.6		0.0	0.0	0.0	0.0	17.0
Motor & Pump P 1601 B	Leq,D	96.3	2	284.38	-60.1	4.6	-22.2	-1.6		0.0	0.0	0.0	0.0	17.1
Motor & Pump P 1602 A	Leq,D	96.3	2	283.44	-60.0	4.6	-22.2	-1.6		0.0	0.0	0.0	0.0	17.1
Motor & Pump P 1602 B	Leq,D	96.5	2	282.11	-60.0	4.6	-22.3	-1.5		0.0	0.0	0.0	0.0	17.3
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	302.77	-60.6	4.9	-22.2	-1.6	-0.19	0.0	0.5	0.0	0.0	17.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	300.76	-60.6	4.9	-22.2	-1.6	-0.18	0.0	2.0	0.0	0.0	18.9
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	299.74	-60.5	4.9	-22.2	-1.6	-0.18	0.0	1.3	0.0	0.0	18.3
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	309.62	-60.8	4.9	-22.1	-1.6	-0.32	0.0	2.4	0.0	0.0	19.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	308.87	-60.8	4.9	-22.1	-1.6	-0.31	0.0	1.6	0.0	0.0	18.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	291.43	-60.3	4.9	-23.5	-1.9	-0.02	0.0	0.3	0.0	0.0	15.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	293.53	-60.3	4.9	-23.6	-1.9	-0.08	0.0	0.4	0.0	0.0	15.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	297.25	-60.5	4.8	-23.7	-2.0	-0.17	0.0	0.7	0.0	0.0	15.5
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	295.61	-60.4	4.9	-23.7	-2.0	-0.13	0.0	0.4	0.0	0.0	15.4
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	304.08	-60.7	4.3	-22.6	-1.3		0.0	0.1	0.0	0.0	24.0
P-2 A/B	Leq,D	98.5		315.06	-61.0	5.4	-22.1	-1.2		0.0	1.9	0.0	0.0	21.5
P-50 A/B	Leq,D	98.1		289.04	-60.2	5.3	-24.4	-1.3	-0.79	0.0	5.6	0.0	0.0	22.3
P-51 A/B	Leq,D	98.1		293.23	-60.3	5.3	-24.3	-1.3	-0.86	0.0	0.2	0.0	0.0	16.8
P-060 A/B	Leq,D	98.1		278.68	-59.9	5.3	-24.5	-1.3	-0.63	0.0	1.4	0.0	0.0	18.5
P-63	Leq,D	98.5		320.79	-61.1	5.4	-22.6	-1.2	-0.37	0.0	0.2	0.0	0.0	18.8
P-70 A/B	Leq,D	98.1		283.31	-60.0	5.3	-24.4	-1.3	-0.71	0.0	0.0	0.0	0.0	16.9
P-73 A/B	Leq,D	98.5		314.39	-60.9	5.4	-21.8	-1.2		0.0	0.4	0.0	0.0	20.4
P-251 A/B	Leq,D	98.2		295.76	-60.4	5.3	-18.2	-0.9	-0.50	0.0	0.0	0.0	0.0	23.4
P-252 A/B	Leq,D	98.2		284.46	-60.1	5.3	-18.9	-0.9	-0.23	0.0	0.1	0.0	0.0	23.5
P-253	Leq,D	98.2		281.03	-60.0	5.3	-20.6	-0.9	-0.22	0.0	0.0	0.0	0.0	21.8
P-254 A/B	Leq,D	98.2		290.74	-60.3	5.3	-18.9	-0.9	-0.48	0.0	0.0	0.0	0.0	23.0
P-255 A/B	Leq,D	98.2		292.20	-60.3	5.3	-20.3	-0.9	-0.49	0.0	0.0	0.0	0.0	21.5
P-255 A/B	Leq,D	98.2		298.99	-60.5	5.3	-19.8	-1.0	-0.50	0.0	0.2	0.0	0.0	21.9
P-256 A/B	Leq,D	98.2		294.15	-60.4	5.3	-18.0	-0.9	-0.49	0.0	0.0	0.0	0.0	23.7
P-259 A/B	Leq,D	98.2		297.30	-60.5	5.3	-18.4	-0.9	-0.50	0.0	0.0	0.0	0.0	23.2
P-260	Leq,D	99.1		293.73	-60.4	5.3	-18.9	-0.9	-0.23	0.0	0.4	0.0	0.0	24.4
P-261 A/B	Leq,D	98.0		306.69	-60.7	5.3	-21.1	-1.0	-0.24	0.0	0.0	0.0	0.0	20.2
P-262 A/B	Leq,D	99.1		298.17	-60.5	5.3	-19.8	-0.9	-0.23	0.0	0.7	0.0	0.0	23.6
P-263 A/B	Leq,D	99.4		295.86	-60.4	5.3	-20.0	-0.9	-0.23	0.0	0.5	0.0	0.0	23.7
P-270 A/B	Leq,D	98.5		273.95	-59.7	5.3	-13.9	-0.9	-0.22	0.0	0.2	0.0	0.0	29.3
P-271 A/B	Leq,D	98.2		286.77	-60.1	5.3	-18.6	-0.8	-0.47	0.0	0.3	0.0	0.0	23.7
P-272 A/B	Leq,D	98.2		288.66	-60.2	5.3	-18.9	-0.9	-0.48	0.0	0.0	0.0	0.0	23.1
P-273 A/B	Leq,D	98.5		275.04	-59.8	5.3	-13.8	-0.9	-0.23	0.0	0.2	0.0	0.0	29.3
P-275 A/B/C	Leq,D	98.2		276.02	-59.8	5.3	-19.4	-0.8	-0.21	0.0	0.0	0.0	0.0	23.2
P-305	Leq,D	99.3		327.38	-61.3	5.4	-15.0	-1.0	-1.53	0.0	0.0	0.0	0.0	25.8
P-306	Leq,D	100.8		325.89	-61.3	5.4	-4.8	-1.6	-1.47	0.0	2.0	0.0	0.0	39.1

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-309	Leq,D	99.3		326.91	-61.3	5.4	-8.2	-1.2	-1.51	0.0	0.0	0.0	0.0	32.5
P-328	Leq,D	100.8		325.21	-61.2	5.4	-4.8	-1.6	-1.46	0.0	2.0	0.0	0.0	39.1
P-329	Leq,D	100.8		325.40	-61.2	5.4	-4.7	-1.6	-1.46	0.0	0.0	0.0	0.0	37.1
P-353	Leq,D	98.5		313.14	-60.9	5.1	-13.2	-1.0	-1.21	0.0	0.0	0.0	0.0	27.2
P-358 A/B	Leq,D	99.4		286.00	-60.1	5.3	-4.8	-1.4	-0.62	0.0	0.0	0.0	0.0	37.8
P-359 A/B	Leq,D	99.4		290.72	-60.3	5.3	-0.8	-1.4	-0.73	0.0	0.0	0.0	0.0	41.6
P-360 A/B	Leq,D	99.4		299.92	-60.5	5.3	-0.8	-1.4	-0.93	0.0	0.0	0.0	0.0	41.1
P-361A	Leq,D	98.1		257.81	-59.2	4.9	-22.3	-1.0	-0.25	0.0	0.9	0.0	0.0	21.1
P-371 A/B	Leq,D	98.0		291.22	-60.3	4.8	-23.0	-1.2		0.0	0.4	0.0	0.0	18.8
P-373 A/B	Leq,D	98.0		275.24	-59.8	4.8	-23.3	-1.2		0.0	0.1	0.0	0.0	18.6
P-374 A/B	Leq,D	98.0		278.24	-59.9	4.8	-21.4	-1.0		0.0	0.0	0.0	0.0	20.5
P-375 A/B	Leq,D	98.0		285.09	-60.1	4.8	-21.4	-1.0		0.0	0.1	0.0	0.0	20.6
P-376	Leq,D	98.0		280.24	-59.9	4.8	-21.4	-1.0		0.0	0.0	0.0	0.0	20.5
P-376 A/B	Leq,D	98.0		271.93	-59.7	4.8	-23.3	-1.2		0.0	0.2	0.0	0.0	18.9
P-377	Leq,D	98.0		281.97	-60.0	4.8	-21.4	-1.0		0.0	0.0	0.0	0.0	20.5
P-1101 A	Leq,D	98.9		294.58	-60.4	5.0	-22.1	-1.2		0.0	0.5	0.0	0.0	20.9
P-1103	Leq,D	98.9		294.34	-60.4	5.0	-21.7	-1.1		0.0	0.6	0.0	0.0	21.3
P-1105 A/B/C	Leq,D	98.9		295.18	-60.4	5.0	-22.4	-1.2		0.0	0.5	0.0	0.0	20.5
P-1800	Leq,D	98.9		341.50	-61.7	5.4	-24.5	-1.5		0.0	1.6	0.0	0.0	18.2
P-1801	Leq,D	98.9		351.06	-61.9	5.4	-24.8	-1.7		0.0	2.4	0.0	0.0	18.3
P-1802	Leq,D	98.9		348.67	-61.8	5.4	-24.9	-1.7		0.0	2.4	0.0	0.0	18.3
P-1803	Leq,D	99.1		246.95	-58.8	5.3	-22.2	-1.0		0.0	0.3	0.0	0.0	22.6
P-1804	Leq,D	99.1		263.63	-59.4	5.3	-24.2	-1.2		0.0	0.2	0.0	0.0	19.8
P-1805	Leq,D	99.1		263.96	-59.4	5.3	-24.2	-1.2		0.0	0.3	0.0	0.0	19.8
P-1806	Leq,D	99.1		246.45	-58.8	5.3	-19.5	-0.9		0.0	0.5	0.0	0.0	25.7
P-1809 A	Leq,D	98.9		339.20	-61.6	5.4	-24.5	-1.5		0.0	5.7	0.0	0.0	22.5
P-1810 A/B/C	Leq,D	99.0		252.68	-59.0	5.3	-24.8	-1.3		0.0	1.0	0.0	0.0	20.2
P-1811 A/B	Leq,D	99.1		246.49	-58.8	5.3	-23.2	-1.1		0.0	0.0	0.0	0.0	21.2
P-1811 A/B	Leq,D	99.1		264.53	-59.4	5.3	-24.8	-1.3		0.0	0.2	0.0	0.0	19.1
P-1847 A/B	Leq,D	99.4		179.07	-56.1	5.1	-23.9	-0.8		0.0	0.2	0.0	0.0	23.9
P-1849 A/B	Leq,D	99.4		179.48	-56.1	5.1	-24.0	-0.8		0.0	0.9	0.0	0.0	24.4
P-1853	Leq,D	99.1		325.12	-61.2	5.4	-14.1	-1.0	-0.06	0.0	0.4	0.0	0.0	28.4
Piping Furnace Tanks	Leq,D	87.1	72	210.72	-57.5	2.8	-19.8	-4.5		0.0	1.4	0.0	0.0	9.5
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	232.67	-58.3	3.1	-18.9	-4.5		0.0	1.1	0.0	0.0	20.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	237.88	-58.5	3.9	-24.7	-2.1		0.0	1.0	0.0	0.0	34.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	236.32	-58.5	3.9	-24.7	-6.2		0.0	1.3	0.0	0.0	31.0
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	222.25	-57.9	3.1	-23.2	-1.0		0.0	0.8	0.0	0.0	32.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	194.98	-56.8	3.1	-22.6	-0.8		0.0	3.2	0.0	0.0	37.2
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	193.98	-56.7	3.1	-23.2	-0.8		0.0	4.0	0.0	0.0	30.4
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	232.74	-58.3	3.2	-24.2	-1.1		0.0	1.0	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	210.46	-57.5	3.2	-24.0	-1.0		0.0	0.6	0.0	0.0	25.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	190.93	-56.6	3.1	-22.9	-0.8		0.0	6.2	0.0	0.0	32.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	200.93	-57.1	3.2	-22.7	-0.8		0.0	0.5	0.0	0.0	29.7
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	218.61	-57.8	3.2	-23.9	-1.0		0.0	1.1	0.0	0.0	27.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	212.38	-57.5	2.7	-23.6	-0.9		0.0	4.9	0.0	0.0	38.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	223.74	-58.0	2.7	-5.1	-2.0		0.0	0.1	0.0	0.0	18.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	240.56	-58.6	3.9	-24.7	-2.2		0.0	1.1	0.0	0.0	36.1
Reformer-Burner Reformer East	Leq,D	97.3	269	190.24	-56.6	2.6	-14.5	-0.8		0.0	0.0	0.0	0.0	31.0
Reformer-Burner Reformer North	Leq,D	95.9	192	202.04	-57.1	2.6	-21.8	-1.2		0.0	0.0	0.0	0.0	18.4

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer South	Leq,D	95.8	191	188.09	-56.5	2.6	-19.1	-0.9		0.0	0.7	0.0	0.0	25.3
Reformer-Burner Reformer West	Leq,D	97.3	268	199.44	-57.0	2.6	-23.1	-1.3		0.0	0.5	0.0	0.0	21.9
RFG A from battery to process	Leq,D	99.4	87	228.43	-58.2	3.0	-17.9	-4.6		0.0	1.0	0.0	0.0	22.7
RFG A from battery to process w NC	Leq,D	115.2	42	234.79	-58.4	3.9	-24.8	-6.5		0.0	1.4	0.0	0.0	30.8
Stack Noise	Leq,D	108.4		170.52	-55.6	2.6	-6.3	-0.4		-5.4	0.0	0.0	0.0	43.4
Steam Turbine-Facade 01	Leq,D	99.6	29	254.47	-59.1	4.6	-24.1	-4.3		0.0	0.3	0.0	0.0	17.0
Steam Turbine-Facade 02	Leq,D	96.2	13	250.14	-59.0	4.6	-24.0	-4.1		0.0	0.3	0.0	0.0	14.1
Steam Turbine-Facade 03	Leq,D	99.6	29	252.33	-59.0	4.6	-24.2	-4.3		0.0	0.3	0.0	0.0	17.0
Steam Turbine-Facade 04	Leq,D	96.2	13	256.70	-59.2	4.6	-24.4	-4.6		0.0	0.4	0.0	0.0	13.0
Steam Turbine-Roof 01	Leq,D	99.7	30	253.40	-59.1	3.9	-24.0	-4.0		0.0	0.3	0.0	0.0	17.0
Tank Farm Pump 1	Leq,D	99.0	3	157.41	-54.9	4.5	-13.7	-0.8		0.0	1.4	0.0	0.0	35.4
Tank Farm Pump 2	Leq,D	99.0	3	158.04	-55.0	4.5	-23.2	-1.1		0.0	1.1	0.0	0.0	25.4
Tank Farm Pump 3	Leq,D	99.0	3	158.94	-55.0	4.5	-23.6	-1.1		0.0	4.5	0.0	0.0	28.3
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	468.68	-64.4	4.4	-10.7	-3.8	-0.02	0.0	0.1	-11.8	0.0	26.1
XF-1502 Splitter Area 1	Leq,D	104.5		297.12	-60.5	2.5	-18.5	-1.1	-0.08	-2.7	0.0	0.0	0.0	24.2
XF-1502 Splitter Area 2	Leq,D	104.5		298.68	-60.5	2.5	-18.4	-1.1	-0.06	-2.7	0.0	0.0	0.0	24.2
XF-1504 Splitter Area 1	Leq,D	104.5		293.11	-60.3	2.5	-18.6	-1.0	-0.02	-2.7	0.0	0.0	0.0	24.3
XF-1504 Splitter Area 2	Leq,D	104.5		294.69	-60.4	2.5	-18.4	-1.1	-0.02	-2.7	0.0	0.0	0.0	24.4
XF 251, 250, 271, 270	Leq,D	101.1	128	281.82	-60.0	2.6	-9.9	-0.4	0.00	-1.5	0.0	0.0	0.0	31.9
XF 260, 261A, 261 B	Leq,D	99.9	97	305.95	-60.7	2.8	-12.4	-0.4	0.00	-1.4	0.2	0.0	0.0	27.9
XF 304, XF 321	Leq,D	110.5	56	349.57	-61.9	1.8	-15.5	-0.5	-0.04	-1.4	0.0	0.0	0.0	33.0
XF 313, XF 314	Leq,D	113.0	18	342.56	-61.7	2.1	-15.2	-0.8		-2.5	0.0	0.0	0.0	34.9
XF 335-1, XF 335-2	Leq,D	113.4	54	346.32	-61.8	2.0	-15.2	-0.8	-0.04	-1.6	0.0	0.0	0.0	36.0
XF 353A/B	Leq,D	95.4	35	293.52	-60.3	2.8	-4.8	-1.0	-0.01	-2.7	0.0	0.0	0.0	29.4
XF 353A/B	Leq,D	95.4	35	273.85	-59.7	2.6	-0.9	-1.2	0.00	-3.5	0.0	0.0	0.0	32.6
XF 354A/B	Leq,D	95.4	35	320.48	-61.1	3.0	-1.8	-1.1	0.00	-2.9	0.0	0.0	0.0	31.5
XF 503	Leq,D	113.0	21	349.69	-61.9	3.2	-17.9	-1.1	-0.59	-2.6	0.0	0.0	0.0	32.1
XF - 1601	Leq,D	96.6		284.70	-60.1	2.2	-13.0	-0.5		-1.1	0.0	0.0	0.0	24.2
XF - 1602	Leq,D	96.6		279.45	-59.9	2.3	-12.7	-0.4		-1.1	0.0	0.0	0.0	24.7
XF Module 1510	Leq,D	108.3		305.53	-60.7	2.6	-18.5	-1.1	-0.22	-2.7	0.0	0.0	0.0	27.6
XF Module 1519	Leq,D	109.0		303.29	-60.6	2.5	-18.7	-1.1	-0.22	-2.7	0.2	0.0	0.0	28.5
xxxx xxxx xxxx xxxx	Leq,D		228								25.3			24.8
xxxx xxxx xxxx xxxx	Leq,D		520								6.2			47.0
xxxx xxxx xxxx xxxx	Leq,D		1341								6.6			37.4
xxxx xxxx xxxx xxxx	Leq,D		450								13.1			13.2
Receiver N-7 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 57.8 dB(A)		Ld 7-19 dB(A)		Leq,N 58.1 dB(A)		Le 19-22 dB(A)		CNEL 64.6 dB(A)		Lmax day hr dB(A)	Ld
ID Fan Motor	Leq,D	104.4	2	239.56	-58.6	4.8	-22.9	-1.6		0.0	6.6	0.0	0.0	32.7
18-1855 A/B	Leq,D	98.8		298.05	-60.5	5.4	-21.0	-1.0		0.0	1.3	0.0	0.0	23.0
18-1856 A/B	Leq,D	98.8		293.25	-60.3	5.4	-17.9	-0.9		0.0	0.7	0.0	0.0	25.8
18-1857 A/B	Leq,D	98.8		302.74	-60.6	5.4	-20.1	-1.0		0.0	1.3	0.0	0.0	23.8
18-1858 A/B	Leq,D	98.8		306.13	-60.7	5.2	-19.5	-1.0		0.0	1.1	0.0	0.0	23.8
18-PK 1802 Air Compressor Package	Leq,D	103.1		297.66	-60.5	5.6	-18.1	-0.5		0.0	2.6	0.0	0.0	32.3
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	431.07	-63.7	5.4	-13.8	-2.1	-0.30	0.0	0.6	-2.7	0.0	32.4
Air Compressor C 1	Leq,D	110.0	5	418.35	-63.4	5.6	-21.9	-1.0		0.0	4.2	0.0	0.0	33.3
Air Compressor Pump	Leq,D	100.3		360.59	-62.1	5.4	-21.5	-2.2		0.0	2.3	0.0	0.0	22.1
Blower F 401	Leq,D	113.0		442.91	-63.9	5.4	-20.8	-0.6	-0.18	0.0	6.1	0.0	0.0	39.0
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	368.99	-62.3	5.3	-14.4	-0.7	-1.38	0.0	2.0	0.0	0.0	27.0
Boiler Feed Water Pump A	Leq,D	97.1	3	276.01	-59.8	5.2	-18.5	-0.9		0.0	1.1	0.0	0.0	24.1
Boiler Feed Water Pump B	Leq,D	97.1	3	278.26	-59.9	5.2	-18.0	-0.9		0.0	1.3	0.0	0.0	24.8
C370 A Motor	Leq,D	103.6	3	333.99	-61.5	4.7	-19.4	-1.0		0.0	0.6	0.0	0.0	27.0
C370 B Motor	Leq,D	108.6	3	325.37	-61.2	4.7	-21.3	-1.3		0.0	2.6	0.0	0.0	32.1
C370A	Leq,D	103.8	5	331.42	-61.4	4.8	-19.6	-1.0		0.0	0.6	0.0	0.0	27.2
C370B	Leq,D	103.8	5	322.74	-61.2	4.7	-20.8	-1.2		0.0	0.9	0.0	0.0	26.3
C-270 A	Leq,D	106.3	6	328.45	-61.3	4.8	-14.1	-1.0	-0.70	0.0	3.1	0.0	0.0	37.0
C-270 B	Leq,D	106.3	6	331.01	-61.4	4.8	-13.2	-1.0	-0.70	0.0	2.6	0.0	0.0	37.3
C-270 C	Leq,D	106.3	6	333.50	-61.5	4.8	-12.8	-1.0	-0.61	0.0	2.6	0.0	0.0	37.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-301 Compressor	Leq,D	106.8	3	299.17	-60.5	4.7	-13.1	-0.9	-0.13	0.0	2.1	0.0	0.0	38.9
C-301 Motor	Leq,D	106.8	4	301.00	-60.6	4.7	-14.9	-1.4	-0.15	0.0	2.9	0.0	0.0	37.4
C-351 Compressor	Leq,D	106.8	4	313.59	-60.9	4.8	-11.1	-1.0	-0.53	0.0	2.1	0.0	0.0	40.1
C-351 Motor	Leq,D	106.8	5	317.88	-61.0	4.5	-11.5	-1.5	-0.73	0.0	3.1	0.0	0.0	39.6
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	442.99	-63.9	5.5	-11.5	-0.8	-0.44	0.0	0.9	-33.5	0.0	30.9
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	454.48	-64.1	5.1	-20.1	-0.9	-1.05	0.6	1.8	0.0	0.0	26.0
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	448.99	-64.0	5.1	-14.2	-1.0	-1.04	0.0	0.6	0.0	0.0	26.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	459.21	-64.2	5.1	-14.3	-0.8	-0.52	4.3	1.3	0.0	0.0	37.4
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	464.48	-64.3	5.1	-21.7	-1.1	-0.97	-5.1	0.8	0.0	0.0	23.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	451.72	-64.1	5.1	-20.7	-1.0	-1.02	-5.1	0.7	0.0	0.0	17.7
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	472.15	-64.5	5.1	-21.9	-1.5	-0.46	-7.8	1.1	0.0	0.0	10.5
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	384.84	-62.7	5.1	-20.2	-1.0		0.7	2.8	0.0	0.0	22.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	396.39	-63.0	5.0	-21.7	-1.3		-7.8	1.3	0.0	0.0	10.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	362.55	-62.2	4.7	-21.1	-1.1		0.7	3.3	0.0	0.0	25.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	379.09	-62.6	4.8	-22.3	-1.3		-7.8	8.5	0.0	0.0	20.1
Cooling Tower M 512	Leq,D	95.7		393.15	-62.9	5.4	-23.8	-1.7		0.0	3.9	0.0	0.0	16.6
Cooling Tower M 513	Leq,D	95.7		394.52	-62.9	5.4	-23.7	-1.7		0.0	3.7	0.0	0.0	16.5
Cooling Tower M 514	Leq,D	95.7		391.81	-62.9	5.4	-23.9	-1.7		0.0	6.2	0.0	0.0	18.9
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	265.60	-59.5	3.2	-16.1	-0.4		-1.3	1.2	0.0	0.0	22.9
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	246.08	-58.8	4.6	-13.3	-0.1		0.0	1.0	0.0	0.0	28.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	246.20	-58.8	4.6	-13.7	-0.1		0.0	0.2	0.0	0.0	25.3
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	247.25	-58.9	3.8	-11.5	-0.1		0.0	2.0	0.0	0.0	28.8
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	248.26	-58.9	4.5	-14.7	-0.1		0.0	0.3	0.0	0.0	24.5
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	248.37	-58.9	4.6	-13.9	-0.1		0.0	0.2	0.0	0.0	27.3
FD Motor	Leq,D	103.3	2	245.03	-58.8	4.8	-23.4	-1.9		0.0	6.5	0.0	0.0	30.5
Feed Compressor -B Motor	Leq,D	103.8	5	306.34	-60.7	4.6	-23.2	-2.1		0.0	2.7	0.0	0.0	25.1
Feed Compressor-A Compressor	Leq,D	104.0	5	314.01	-60.9	4.8	-18.7	-0.9		0.0	1.3	0.0	0.0	29.6
Feed Compressor-A Motor	Leq,D	103.8	6	317.14	-61.0	4.6	-20.4	-1.5		0.0	1.9	0.0	0.0	27.4
Feed Compressor-B Compressor	Leq,D	104.0	7	302.64	-60.6	4.7	-19.0	-0.9		0.0	1.4	0.0	0.0	29.6
H2S Compressor 18-C-271	Leq,D	105.3	6	425.61	-63.6	5.3	-19.5	-1.3	-0.41	0.0	0.9	0.0	0.0	26.8
Heater # 5-Heater	Leq,D	91.1	13	366.15	-62.3	5.3	-18.7	-0.8	-1.54	0.0	5.6	0.0	0.0	21.7
Heater # 5-Heater	Leq,D	91.1	13	368.04	-62.3	5.3	-17.3	-0.7	-1.61	0.0	1.0	0.0	0.0	18.4
Heater # 5-Heater	Leq,D	91.1	13	364.38	-62.2	5.3	-17.0	-0.8	-1.31	0.0	1.2	0.0	0.0	19.3
Hydro Heater H-402	Leq,D	98.1		418.21	-63.4	5.4	-22.9	-1.2		0.0	1.2	0.0	0.0	17.2
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	239.66	-58.6	4.8	-12.4	0.0		0.0	0.1	0.0	0.0	20.8
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	240.88	-58.6	4.8	-18.2	-0.1		0.0	0.1	0.0	0.0	15.3
ID Fan-ID Fan - North	Leq,D	92.2	8	240.61	-58.6	4.8	-13.5	-0.1		0.0	0.1	0.0	0.0	25.0
ID Fan-ID Fan - North 2	Leq,D	91.4	7	238.92	-58.6	4.8	-13.0	-0.1		0.0	0.1	0.0	0.0	24.7
ID Fan-ID Fan - South	Leq,D	92.3	9	242.34	-58.7	4.8	-17.3	-0.1		0.0	0.4	0.0	0.0	21.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	239.70	-58.6	4.8	-18.4	-0.1		0.0	0.1	0.0	0.0	19.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	240.88	-58.6	4.2	-13.4	-0.1		0.0	0.5	0.0	0.0	26.5
Motor & Pump P 56A/B	Leq,D	93.7		420.39	-63.5	5.5	-20.9	-1.8	-0.46	0.0	1.8	0.0	0.0	14.4
Motor & Pump P 120/121	Leq,D	96.2	2	420.55	-63.5	5.5	-20.9	-1.3	-0.23	0.0	0.0	0.0	0.0	15.9
Motor & Pump P 211/212	Leq,D	93.7		447.18	-64.0	5.5	-24.0	-2.9	-0.24	0.0	6.6	0.0	0.0	14.7
Motor & Pump P 215/214	Leq,D	94.6		445.70	-64.0	5.6	-20.0	-1.8	-0.62	0.0	3.8	0.0	0.0	17.7
Motor & Pump P 216	Leq,D	98.3		453.23	-64.1	5.5	-19.8	-1.8	-0.77	0.0	0.7	0.0	0.0	18.0
Motor & Pump P 217/218	Leq,D	93.7		446.73	-64.0	5.7	-20.1	-1.8	-0.62	0.0	0.7	0.0	0.0	13.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 300	Leq,D	97.1	2	431.70	-63.7	5.6	-19.4	-1.3	-0.12	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 301	Leq,D	102.1	2	432.06	-63.7	5.6	-19.6	-1.3	-0.23	0.0	0.0	0.0	0.0	22.9
Motor & Pump P 302	Leq,D	97.1	2	431.32	-63.7	5.6	-21.7	-1.4		0.0	0.0	0.0	0.0	15.9
Motor & Pump P 303	Leq,D	97.1	2	431.11	-63.7	5.5	-20.1	-1.3		0.0	0.0	0.0	0.0	17.6
Motor & Pump P 305	Leq,D	97.5	2	430.81	-63.7	5.5	-20.1	-1.3		0.0	0.0	0.0	0.0	18.0
Motor & Pump P 306	Leq,D	112.6	4	428.98	-63.6	5.4	-21.9	-1.5		0.0	0.2	0.0	0.0	31.3
Motor & Pump P 307	Leq,D	102.1	2	433.13	-63.7	5.6	-20.1	-1.3	-0.23	0.0	0.2	0.0	0.0	22.5
Motor & Pump P 309	Leq,D	97.5	2	430.52	-63.7	5.5	-22.9	-1.5		0.0	0.1	0.0	0.0	15.0
Motor & Pump P 312	Leq,D	101.5	2	438.57	-63.8	5.6	-19.7	-1.3	-0.55	0.0	0.0	0.0	0.0	21.7
Motor & Pump P 313	Leq,D	101.5	2	439.06	-63.8	5.6	-19.7	-1.3	-0.55	0.0	3.0	0.0	0.0	24.7
Motor & Pump P 315	Leq,D	102.9	2	441.13	-63.9	5.6	-18.3	-1.3	-0.55	0.0	1.8	0.0	0.0	26.3
Motor & Pump P 316	Leq,D	102.9	2	441.72	-63.9	5.6	-18.2	-1.3	-0.55	0.0	2.6	0.0	0.0	27.2
Motor & Pump P 317	Leq,D	102.9	2	442.21	-63.9	5.5	-16.3	-1.3	-0.55	0.0	1.4	0.0	0.0	27.7
Motor & Pump P 318	Leq,D	100.2	1	440.08	-63.9	5.7	-19.3	-1.3	-0.55	0.0	1.9	0.0	0.0	22.8
Motor & Pump P 319	Leq,D	100.2	1	439.66	-63.9	5.7	-19.1	-1.3	-0.55	0.0	1.7	0.0	0.0	22.8
Motor & Pump P 327	Leq,D	111.2	3	428.28	-63.6	5.5	-23.6	-2.4		0.0	1.2	0.0	0.0	28.3
Motor & Pump P 328	Leq,D	109.9	5	430.01	-63.7	5.4	-22.7	-1.5		0.0	0.1	0.0	0.0	27.6
Motor & Pump P 329	Leq,D	110.2	5	429.47	-63.7	5.4	-23.0	-1.5		0.0	0.1	0.0	0.0	27.5
Motor & Pump P 451	Leq,D	93.7		419.71	-63.5	5.5	-22.7	-2.1		0.0	3.6	0.0	0.0	14.4
Motor & Pump P 453	Leq,D	93.7		421.68	-63.5	5.5	-23.8	-2.6		0.0	4.9	0.0	0.0	14.1
Motor & Pump P 454	Leq,D	93.7		420.92	-63.5	5.5	-22.7	-2.1		0.0	4.3	0.0	0.0	15.2
Motor & Pump P 457	Leq,D	93.7		422.31	-63.5	5.5	-23.8	-2.6		0.0	5.0	0.0	0.0	14.2
Motor & Pump P 458	Leq,D	93.7		418.64	-63.4	5.5	-22.8	-2.1		0.0	3.8	0.0	0.0	14.6
Motor & Pump P 459	Leq,D	93.7		420.54	-63.5	5.5	-22.8	-2.1		0.0	4.6	0.0	0.0	15.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		396.08	-62.9	5.5	-21.6	-1.8	-0.31	0.0	4.0	0.0	0.0	19.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		395.52	-62.9	5.5	-21.5	-1.7	-0.31	0.0	5.5	0.0	0.0	20.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		377.12	-62.5	5.5	-24.0	-2.4	-0.21	0.0	0.4	0.0	0.0	12.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		376.82	-62.5	5.5	-23.0	-2.0	-0.18	0.0	0.3	0.0	0.0	13.4
Motor & Pump P 1601 A	Leq,D	96.3	2	369.26	-62.3	5.3	-21.9	-1.7		0.0	3.3	0.0	0.0	19.0
Motor & Pump P 1601 B	Leq,D	96.3	2	367.81	-62.3	5.3	-22.4	-1.8		0.0	3.6	0.0	0.0	18.7
Motor & Pump P 1602 A	Leq,D	96.3	2	366.79	-62.3	5.3	-22.4	-1.8		0.0	3.6	0.0	0.0	18.7
Motor & Pump P 1602 B	Leq,D	96.5	2	365.39	-62.2	5.3	-22.5	-1.8		0.0	3.7	0.0	0.0	18.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	387.09	-62.7	5.5	-21.8	-1.8	-0.18	0.0	2.9	0.0	0.0	18.5
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	385.54	-62.7	5.5	-18.8	-1.6	-0.18	0.0	2.6	0.0	0.0	21.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	384.74	-62.7	5.5	-19.0	-1.6	-0.18	0.0	1.8	0.0	0.0	20.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	394.50	-62.9	5.5	-18.5	-1.6	-0.31	0.0	3.5	0.0	0.0	22.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	393.92	-62.9	5.5	-18.7	-1.6	-0.31	0.0	1.9	0.0	0.0	20.6
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	376.66	-62.5	5.5	-19.5	-1.6	-0.02	0.0	1.2	0.0	0.0	19.4
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	378.85	-62.6	5.5	-19.4	-1.6	-0.08	0.0	0.9	0.0	0.0	19.1
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	382.70	-62.6	5.5	-19.3	-1.6	-0.17	0.0	0.9	0.0	0.0	19.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	381.00	-62.6	5.5	-19.4	-1.6	-0.13	0.0	0.9	0.0	0.0	19.0
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	392.99	-62.9	5.2	-22.0	-1.4		0.0	0.1	0.0	0.0	23.3
P-2 A/B	Leq,D	98.5		315.64	-61.0	5.6	-22.3	-1.2		0.0	2.9	0.0	0.0	22.6
P-50 A/B	Leq,D	98.1		301.17	-60.6	5.6	-20.5	-0.9	-0.31	0.0	2.7	0.0	0.0	24.1
P-51 A/B	Leq,D	98.1		305.22	-60.7	5.6	-19.1	-0.9	-0.32	0.0	2.2	0.0	0.0	24.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-060 A/B	Leq,D	98.1		291.26	-60.3	5.6	-20.5	-0.8	-0.31	0.0	11.0	0.0	0.0	32.8
P-63	Leq,D	98.5		330.11	-61.4	5.6	-19.3	-1.0		0.0	1.4	0.0	0.0	23.9
P-70 A/B	Leq,D	98.1		295.69	-60.4	5.6	-20.8	-0.9	-0.31	0.0	2.7	0.0	0.0	24.0
P-73 A/B	Leq,D	98.5		316.28	-61.0	5.6	-21.3	-1.2		0.0	2.4	0.0	0.0	23.1
P-251 A/B	Leq,D	98.2		345.88	-61.8	5.7	-5.2	-1.5	-0.56	0.0	0.1	0.0	0.0	35.0
P-252 A/B	Leq,D	98.2		335.26	-61.5	5.6	-19.5	-1.0	-0.27	0.0	2.5	0.0	0.0	24.1
P-253	Leq,D	98.2		330.17	-61.4	5.6	-4.7	-1.6	-0.25	0.0	0.1	0.0	0.0	36.1
P-254 A/B	Leq,D	98.2		338.45	-61.6	5.7	-12.3	-1.0	-0.56	0.0	2.4	0.0	0.0	30.8
P-255 A/B	Leq,D	98.2		340.66	-61.6	5.7	-7.0	-1.2	-0.56	0.0	0.2	0.0	0.0	33.6
P-255 A/B	Leq,D	98.2		350.59	-61.9	5.7	-11.2	-1.1	-0.58	0.0	0.4	0.0	0.0	29.6
P-256 A/B	Leq,D	98.2		343.56	-61.7	5.7	-4.7	-1.6	-0.55	0.0	0.1	0.0	0.0	35.4
P-259 A/B	Leq,D	98.2		348.15	-61.8	5.7	-8.4	-1.2	-0.58	0.0	0.2	0.0	0.0	32.1
P-260	Leq,D	99.1		348.46	-61.8	5.7	-20.1	-1.0	-0.27	0.0	2.6	0.0	0.0	24.0
P-261 A/B	Leq,D	98.0		365.63	-62.3	5.7	-18.5	-1.1	-0.29	0.0	1.6	0.0	0.0	23.0
P-262 A/B	Leq,D	99.1		354.49	-62.0	5.7	-19.1	-1.1	-0.28	0.0	2.2	0.0	0.0	24.5
P-263 A/B	Leq,D	99.4		351.46	-61.9	5.7	-20.2	-1.1	-0.27	0.0	2.6	0.0	0.0	24.3
P-270 A/B	Leq,D	98.5		311.57	-60.9	5.6	-16.0	-0.9	-0.25	0.0	3.4	0.0	0.0	29.5
P-271 A/B	Leq,D	98.2		332.28	-61.4	5.6	-14.5	-1.0	-0.40	0.0	2.6	0.0	0.0	29.2
P-272 A/B	Leq,D	98.2		335.25	-61.5	5.6	-14.3	-1.0	-0.56	0.0	2.7	0.0	0.0	29.1
P-273 A/B	Leq,D	98.5		313.58	-60.9	5.6	-16.0	-0.9	-0.26	0.0	3.5	0.0	0.0	29.5
P-275 A/B/C	Leq,D	98.2		322.62	-61.2	5.6	-15.2	-1.0	-0.24	0.0	2.9	0.0	0.0	29.2
P-305	Leq,D	99.3		356.00	-62.0	5.7	-6.5	-1.3	-1.64	0.0	1.3	0.0	0.0	34.8
P-306	Leq,D	100.8		352.06	-61.9	5.7	-4.8	-1.7	-1.58	0.0	3.2	0.0	0.0	39.7
P-309	Leq,D	99.3		354.94	-62.0	5.7	-5.5	-1.4	-1.62	0.0	1.1	0.0	0.0	35.5
P-328	Leq,D	100.8		349.91	-61.9	5.7	-4.8	-1.7	-1.57	0.0	2.9	0.0	0.0	39.5
P-329	Leq,D	100.8		350.82	-61.9	5.7	-1.0	-1.5	-1.59	0.0	1.2	0.0	0.0	41.7
P-353	Leq,D	98.5		342.33	-61.7	5.4	-11.8	-1.1	-1.32	0.0	4.7	0.0	0.0	32.7
P-358 A/B	Leq,D	99.4		311.85	-60.9	5.6	-4.8	-1.4	-0.68	0.0	0.7	0.0	0.0	37.9
P-359 A/B	Leq,D	99.4		316.16	-61.0	5.6	-4.8	-1.5	-0.79	0.0	0.7	0.0	0.0	37.7
P-360 A/B	Leq,D	99.4		324.63	-61.2	5.6	-4.8	-1.6	-1.00	0.0	2.8	0.0	0.0	39.3
P-361A	Leq,D	98.1		271.55	-59.7	5.2	-4.6	-1.4	-0.22	0.0	4.1	0.0	0.0	41.6
P-371 A/B	Leq,D	98.0		368.55	-62.3	5.4	-20.3	-1.2		0.0	3.7	0.0	0.0	23.3
P-373 A/B	Leq,D	98.0		351.07	-61.9	5.4	-21.4	-1.3		0.0	1.1	0.0	0.0	20.0
P-374 A/B	Leq,D	98.0		354.42	-62.0	5.4	-21.1	-1.2		0.0	1.1	0.0	0.0	20.2
P-375 A/B	Leq,D	98.0		362.04	-62.2	5.4	-20.6	-1.2		0.0	1.0	0.0	0.0	20.4
P-376	Leq,D	98.0		356.63	-62.0	5.4	-20.9	-1.2		0.0	1.0	0.0	0.0	20.3
P-376 A/B	Leq,D	98.0		347.39	-61.8	5.4	-21.6	-1.3		0.0	1.2	0.0	0.0	19.9
P-377	Leq,D	98.0		358.57	-62.1	5.4	-20.8	-1.2		0.0	1.0	0.0	0.0	20.4
P-1101 A	Leq,D	98.9		298.01	-60.5	5.3	-22.3	-1.1		0.0	1.5	0.0	0.0	21.8
P-1103	Leq,D	98.9		298.21	-60.5	5.3	-21.6	-1.1		0.0	1.3	0.0	0.0	22.3
P-1105 A/B/C	Leq,D	98.9		296.87	-60.4	5.3	-20.9	-1.1		0.0	0.9	0.0	0.0	22.7
P-1800	Leq,D	98.9		336.07	-61.5	5.6	-24.4	-1.4		0.0	3.0	0.0	0.0	20.3
P-1801	Leq,D	98.9		332.40	-61.4	5.6	-24.7	-1.5		0.0	4.4	0.0	0.0	21.2
P-1802	Leq,D	98.9		329.90	-61.4	5.6	-24.7	-1.5		0.0	4.3	0.0	0.0	21.3
P-1803	Leq,D	99.1		257.38	-59.2	5.5	-23.9	-1.1		0.0	3.2	0.0	0.0	23.6
P-1804	Leq,D	99.1		268.99	-59.6	5.6	-24.4	-1.2		0.0	3.5	0.0	0.0	23.0
P-1805	Leq,D	99.1		268.23	-59.6	5.6	-24.4	-1.2		0.0	4.1	0.0	0.0	23.6
P-1806	Leq,D	99.1		265.39	-59.5	5.6	-12.7	-0.9		0.0	0.4	0.0	0.0	32.0
P-1809 A	Leq,D	98.9		330.39	-61.4	5.6	-24.9	-1.5		0.0	5.7	0.0	0.0	22.5
P-1810 A/B/C	Leq,D	99.0		256.24	-59.2	5.5	-24.2	-1.1		0.0	3.7	0.0	0.0	23.8
P-1811 A/B	Leq,D	99.1		263.05	-59.4	5.6	-17.3	-0.8		0.0	1.1	0.0	0.0	28.3
P-1811 A/B	Leq,D	99.1		267.46	-59.5	5.6	-24.5	-1.2		0.0	2.3	0.0	0.0	21.7
P-1847 A/B	Leq,D	99.4		197.18	-56.9	5.4	-21.0	-0.6		0.0	3.4	0.0	0.0	29.7
P-1849 A/B	Leq,D	99.4		194.44	-56.8	5.4	-4.8	-1.0		0.0	2.7	0.0	0.0	44.9
P-1853	Leq,D	99.1		365.79	-62.3	5.7	-13.8	-1.1	-0.23	0.0	3.3	0.0	0.0	30.7
Piping Furnace Tanks	Leq,D	87.1	72	285.12	-60.1	3.6	-23.8	-6.1		0.0	6.0	0.0	0.0	6.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	306.26	-60.7	3.9	-23.4	-5.6		0.0	2.5	0.0	0.0	15.1

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Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	318.47	-61.1	4.6	-24.8	-2.7		0.0	2.6	0.0	0.0	33.3
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	316.49	-61.0	4.6	-24.8	-7.5		0.0	2.9	0.0	0.0	29.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	198.24	-56.9	3.4	-23.0	-0.9		0.0	1.5	0.0	0.0	34.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	180.11	-56.1	3.3	-19.2	-0.6		0.0	0.9	0.0	0.0	39.5
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	192.45	-56.7	3.4	-12.5	-0.7		0.0	2.3	0.0	0.0	39.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	220.30	-57.9	3.5	-24.1	-1.0		0.0	2.1	0.0	0.0	33.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	209.02	-57.4	3.4	-22.7	-0.9		0.0	1.9	0.0	0.0	28.4
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	187.12	-56.4	3.3	-18.3	-0.7		0.0	0.6	0.0	0.0	32.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	201.58	-57.1	3.4	-14.3	-0.7		0.0	0.5	0.0	0.0	38.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	215.17	-57.6	3.5	-23.6	-1.0		0.0	7.6	0.0	0.0	35.0
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	199.59	-57.0	3.0	-23.2	-0.8		0.0	4.9	0.0	0.0	39.9
PSA Pipe 3" Lagging	Leq,D	80.6	11	302.74	-60.6	3.1	-19.4	-1.9		0.0	8.0	0.0	0.0	9.8
PSA Skid Additional Piping w NC	Leq,D	116.6	57	321.36	-61.1	4.6	-24.9	-2.8		0.0	2.7	0.0	0.0	35.2
Reformer-Burner Reformer East	Leq,D	97.3	269	266.23	-59.5	3.2	-16.4	-0.9		0.0	2.4	0.0	0.0	29.0
Reformer-Burner Reformer North	Leq,D	95.9	192	278.03	-59.9	3.1	-22.8	-1.5		0.0	1.4	0.0	0.0	16.2
Reformer-Burner Reformer South	Leq,D	95.8	191	261.41	-59.3	3.2	-20.7	-1.2		0.0	7.7	0.0	0.0	28.1
Reformer-Burner Reformer West	Leq,D	97.3	268	272.93	-59.7	3.0	-23.8	-1.7		0.0	2.2	0.0	0.0	20.4
RFG A from battery to process	Leq,D	99.4	87	301.02	-60.6	3.9	-23.2	-5.4		0.0	2.3	0.0	0.0	16.4
RFG A from battery to process w NC	Leq,D	115.2	42	315.36	-61.0	4.6	-24.9	-7.8		0.0	2.5	0.0	0.0	28.6
Stack Noise	Leq,D	108.4		238.22	-58.5	3.0	-7.0	-0.6		-5.5	1.4	0.0	0.0	41.2
Steam Turbine-Facade 01	Leq,D	99.6	29	333.07	-61.4	5.1	-24.5	-5.2		0.0	2.0	0.0	0.0	15.5
Steam Turbine-Facade 02	Leq,D	96.2	13	328.67	-61.3	5.1	-24.5	-5.2		0.0	2.0	0.0	0.0	12.4
Steam Turbine-Facade 03	Leq,D	99.6	29	331.44	-61.4	5.1	-24.4	-4.9		0.0	2.1	0.0	0.0	16.1
Steam Turbine-Facade 04	Leq,D	96.2	13	335.88	-61.5	5.1	-24.5	-5.1		0.0	2.0	0.0	0.0	12.2
Steam Turbine-Roof 01	Leq,D	99.7	30	332.25	-61.4	4.6	-24.4	-5.0		0.0	2.7	0.0	0.0	16.2
Tank Farm Pump 1	Leq,D	99.0	3	184.09	-56.3	4.9	-20.7	-1.0		0.0	2.7	0.0	0.0	28.6
Tank Farm Pump 2	Leq,D	99.0	3	173.66	-55.8	4.8	-10.2	-0.9		0.0	0.3	0.0	0.0	37.1
Tank Farm Pump 3	Leq,D	99.0	3	171.31	-55.7	4.8	-4.7	-1.4		0.0	3.1	0.0	0.0	45.2
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	553.33	-65.9	4.9	-10.0	-4.0	-0.02	0.0	0.8	-11.8	0.0	26.5
XF-1502 Splitter Area 1	Leq,D	104.5		382.15	-62.6	3.4	-13.2	-1.4	-0.09	-3.0	1.7	0.0	0.0	29.3
XF-1502 Splitter Area 2	Leq,D	104.5		383.37	-62.7	3.4	-18.6	-1.3	-0.07	-2.7	4.1	0.0	0.0	26.7
XF-1504 Splitter Area 1	Leq,D	104.5		377.98	-62.5	3.4	-13.2	-1.3	-0.02	-3.0	1.7	0.0	0.0	29.4
XF-1504 Splitter Area 2	Leq,D	104.5		379.20	-62.6	3.4	-18.9	-1.3	-0.02	-2.7	4.2	0.0	0.0	26.6
XF 251, 250, 271, 270	Leq,D	101.1	128	327.98	-61.3	3.4	-5.1	-0.7	0.00	-2.2	0.6	0.0	0.0	35.8
XF 260, 261A, 261 B	Leq,D	99.9	97	362.43	-62.2	3.7	-13.0	-0.5	0.00	-1.5	1.2	0.0	0.0	27.5
XF 304, XF 321	Leq,D	110.5	56	438.24	-63.8	3.7	-14.7	-0.6	-0.04	-1.5	0.0	0.0	0.0	33.5
XF 313, XF 314	Leq,D	113.0	18	432.65	-63.7	4.1	-9.8	-1.1		-2.9	0.0	0.0	0.0	39.6
XF 335-1, XF 335-2	Leq,D	113.4	54	435.64	-63.8	3.7	-15.7	-0.8	-0.05	-1.6	0.0	0.0	0.0	35.2
XF 353A/B	Leq,D	95.4	35	316.91	-61.0	3.4	-2.0	-1.4	-0.04	-3.2	2.0	0.0	0.0	33.2
XF 353A/B	Leq,D	95.4	35	302.77	-60.6	3.2	-6.6	-0.5	0.00	-2.0	1.3	0.0	0.0	30.3
XF 354A/B	Leq,D	95.4	35	349.56	-61.9	3.6	-5.0	-0.7	0.00	-2.2	1.2	0.0	0.0	30.5
XF 503	Leq,D	113.0	21	434.59	-63.8	4.3	-17.8	-1.2	-0.68	-2.7	3.5	0.0	0.0	34.7
XF - 1601	Leq,D	96.6		367.88	-62.3	3.0	-11.0	-0.5		-1.0	3.4	0.0	0.0	28.2
XF - 1602	Leq,D	96.6		362.34	-62.2	3.0	-11.3	-0.5		-1.0	3.6	0.0	0.0	28.1
XF Module 1510	Leq,D	108.3		390.09	-62.8	3.6	-19.0	-1.3	-0.23	-2.7	3.9	0.0	0.0	29.9
XF Module 1519	Leq,D	109.0		388.35	-62.8	3.6	-13.6	-1.4	-0.24	-2.9	1.6	0.0	0.0	33.3
xxxx xxxx xxxx xxxx	Leq,D		228								5.4			32.0
xxxx xxxx xxxx xxxx	Leq,D		520								6.5			53.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
xxxx xxxx xxxx xxxx	Leq,D		1341								5.9			40.7
xxxx xxxx xxxx xxxx	Leq,D		450								21.2			22.4
Receiver N-8 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 62.1 dB(A)		Ld 7-19 dB(A)		Leq,N 63.0 dB(A)		Le 19-22 dB(A)		CNEL 69.3 dB(A)		Lmax day hr	dB(A) Ld
ID Fan Motor	Leq,D	104.4	2	320.65	-61.1	5.1	-22.1	-1.8		0.0	0.1	0.0	0.0	24.5
18-1855 A/B	Leq,D	98.8		367.44	-62.3	5.5	-19.8	-1.2		0.0	0.0	0.0	0.0	20.9
18-1856 A/B	Leq,D	98.8		361.79	-62.2	5.5	-19.6	-1.2		0.0	0.0	0.0	0.0	21.4
18-1857 A/B	Leq,D	98.8		372.93	-62.4	5.5	-19.5	-1.2		0.0	0.0	0.0	0.0	21.1
18-1858 A/B	Leq,D	98.8		376.83	-62.5	5.3	-19.8	-1.2		0.0	0.0	0.0	0.0	20.6
18-PK 1802 Air Compressor Package	Leq,D	103.1		363.53	-62.2	5.7	-20.4	-0.6		0.0	0.1	0.0	0.0	25.6
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	505.07	-65.1	5.5	-17.4	-1.2	-0.11	0.0	0.1	-2.7	0.0	28.1
Air Compressor C 1	Leq,D	110.0	5	508.35	-65.1	5.7	-21.6	-1.2		0.0	5.0	0.0	0.0	32.7
Air Compressor Pump	Leq,D	100.3		435.84	-63.8	5.5	-20.9	-2.5		0.0	0.0	0.0	0.0	18.6
Blower F 401	Leq,D	113.0		526.71	-65.4	5.5	-16.2	-0.6	-0.16	0.0	0.0	0.0	0.0	36.1
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	410.99	-63.3	5.4	-20.1	-0.9	-1.09	0.0	0.9	0.0	0.0	19.4
Boiler Feed Water Pump A	Leq,D	97.1	3	347.99	-61.8	5.4	-18.7	-1.2		0.0	2.1	0.0	0.0	22.9
Boiler Feed Water Pump B	Leq,D	97.1	3	349.74	-61.9	5.4	-19.4	-1.2		0.0	0.0	0.0	0.0	20.0
C370 A Motor	Leq,D	103.6	3	413.91	-63.3	5.0	-13.1	-1.2		0.0	0.0	0.0	0.0	30.9
C370 B Motor	Leq,D	108.6	3	404.61	-63.1	4.9	-13.5	-1.2		0.0	0.0	0.0	0.0	35.7
C370A	Leq,D	103.8	5	411.78	-63.3	5.0	-15.8	-1.1		0.0	0.0	0.0	0.0	28.6
C370B	Leq,D	103.8	5	402.43	-63.1	5.0	-13.0	-1.2		0.0	0.0	0.0	0.0	31.4
C-270 A	Leq,D	106.3	6	382.28	-62.6	5.0	-20.4	-1.3	-0.78	0.0	0.3	0.0	0.0	26.5
C-270 B	Leq,D	106.3	6	385.65	-62.7	5.0	-19.9	-1.2	-0.79	0.0	0.2	0.0	0.0	26.9
C-270 C	Leq,D	106.3	6	388.93	-62.8	5.0	-19.7	-1.2	-0.73	0.0	0.2	0.0	0.0	27.1
C-301 Compressor	Leq,D	106.8	3	353.32	-62.0	4.9	-19.0	-1.1	-0.15	0.0	0.0	0.0	0.0	29.4
C-301 Motor	Leq,D	106.8	4	355.86	-62.0	4.9	-20.5	-1.9	-0.18	0.0	0.0	0.0	0.0	27.1
C-351 Compressor	Leq,D	106.8	4	364.86	-62.2	4.9	-17.2	-1.1	-0.60	0.0	0.0	0.0	0.0	30.7
C-351 Motor	Leq,D	106.8	5	368.57	-62.3	4.7	-18.7	-1.7	-0.84	0.0	0.0	0.0	0.0	27.9
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	518.03	-65.3	5.6	-15.0	-0.7	-0.22	0.0	0.0	-33.5	0.0	25.7
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	541.52	-65.7	5.3	-21.2	-1.2	-0.79	0.4	0.0	0.0	0.0	21.6
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	536.24	-65.6	5.3	-15.2	-1.1	-1.06	0.0	0.0	0.0	0.0	22.8
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	546.80	-65.7	5.3	-13.6	-1.0	-0.56	4.5	0.0	0.0	0.0	35.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	551.56	-65.8	5.3	-22.9	-1.5	-1.03	-4.4	0.0	0.0	0.0	20.2
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	538.86	-65.6	5.3	-21.1	-1.2	-1.03	-4.4	0.0	0.0	0.0	15.6
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	559.64	-66.0	5.3	-21.7	-1.6	-0.78	-7.8	0.0	0.0	0.0	7.9
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	470.55	-64.4	5.2	-20.3	-1.2		0.4	0.5	0.0	0.0	18.1
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	482.40	-64.7	5.2	-21.9	-1.5		-7.8	0.0	0.0	0.0	7.3
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	447.48	-64.0	4.9	-19.5	-1.1		0.4	0.0	0.0	0.0	21.3
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	464.54	-64.3	5.0	-22.5	-1.6		-7.8	5.9	0.0	0.0	15.4
Cooling Tower M 512	Leq,D	95.7		478.56	-64.6	5.5	-23.0	-2.0		0.0	0.0	0.0	0.0	11.6
Cooling Tower M 513	Leq,D	95.7		479.97	-64.6	5.5	-23.0	-2.0		0.0	0.0	0.0	0.0	11.5
Cooling Tower M 514	Leq,D	95.7		477.17	-64.6	5.5	-23.0	-2.0		0.0	0.0	0.0	0.0	11.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	342.34	-61.7	3.8	-14.1	-0.5		-1.5	0.0	0.0	0.0	21.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	328.95	-61.3	4.9	-12.7	-0.1		0.0	0.0	0.0	0.0	26.1
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	329.40	-61.3	5.0	-13.1	-0.1		0.0	0.0	0.0	0.0	23.5
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	330.17	-61.4	4.4	-12.1	-0.1		0.0	0.0	0.0	0.0	24.2
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	330.93	-61.4	4.9	-13.6	-0.1		0.0	0.0	0.0	0.0	23.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	331.38	-61.4	4.9	-14.5	-0.1		0.0	0.0	0.0	0.0	24.3
FD Motor	Leq,D	103.3	2	327.83	-61.3	5.1	-22.7	-2.2		0.0	1.8	0.0	0.0	23.9
Feed Compressor -B Motor	Leq,D	103.8	5	381.94	-62.6	4.9	-22.6	-2.3		0.0	0.0	0.0	0.0	21.1
Feed Compressor-A Compressor	Leq,D	104.0	5	391.43	-62.8	5.0	-16.5	-1.2		0.0	0.1	0.0	0.0	28.6
Feed Compressor-A Motor	Leq,D	103.8	6	393.95	-62.9	4.9	-16.4	-1.8		0.0	0.0	0.0	0.0	27.6
Feed Compressor-B Compressor	Leq,D	104.0	7	378.96	-62.6	5.0	-14.5	-1.2		0.0	0.0	0.0	0.0	30.7
H2S Compressor 18-C-271	Leq,D	105.3	6	514.16	-65.2	5.4	-20.0	-1.5	-0.38	0.0	0.0	0.0	0.0	23.6
Heater # 5-Heater	Leq,D	91.1	13	408.83	-63.2	5.4	-21.7	-1.1	-1.40	0.0	2.6	0.0	0.0	14.7
Heater # 5-Heater	Leq,D	91.1	13	411.66	-63.3	5.4	-22.3	-1.1	-1.34	0.0	0.2	0.0	0.0	11.6
Heater # 5-Heater	Leq,D	91.1	13	406.13	-63.2	5.4	-21.8	-1.1	-1.17	0.0	0.6	0.0	0.0	12.8
Hydro Heater H-402	Leq,D	98.1		504.28	-65.0	5.5	-21.7	-1.2		0.0	0.4	0.0	0.0	16.0
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	320.42	-61.1	5.1	-11.5	-0.1		0.0	0.0	0.0	0.0	19.4
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	321.31	-61.1	5.1	-14.4	-0.1		0.0	0.0	0.0	0.0	16.7
ID Fan-ID Fan - North	Leq,D	92.2	8	321.53	-61.1	5.1	-11.9	-0.1		0.0	0.0	0.0	0.0	24.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	319.53	-61.1	5.1	-16.8	-0.1		0.0	0.0	0.0	0.0	18.5
ID Fan-ID Fan - South	Leq,D	92.3	9	322.81	-61.2	5.1	-14.2	-0.1		0.0	0.1	0.0	0.0	22.1
ID Fan-ID Fan - South 2	Leq,D	91.4	7	320.10	-61.1	5.1	-15.0	-0.1		0.0	0.0	0.0	0.0	20.3
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	321.53	-61.1	4.7	-13.3	-0.1		0.0	0.3	0.0	0.0	24.4
Motor & Pump P 56A/B	Leq,D	93.7		507.57	-65.1	5.5	-21.7	-2.2	-0.45	0.0	0.3	0.0	0.0	10.0
Motor & Pump P 120/121	Leq,D	96.2	2	510.07	-65.1	5.6	-20.5	-1.5	-0.23	0.0	0.0	0.0	0.0	14.4
Motor & Pump P 211/212	Leq,D	93.7		533.27	-65.5	5.6	-21.8	-2.3	-0.60	0.0	0.0	0.0	0.0	9.0
Motor & Pump P 215/214	Leq,D	94.6		532.10	-65.5	5.6	-20.6	-2.1	-0.61	0.0	0.0	0.0	0.0	11.4
Motor & Pump P 216	Leq,D	98.3		539.48	-65.6	5.6	-23.2	-3.0	-0.25	0.0	0.0	0.0	0.0	11.8
Motor & Pump P 217/218	Leq,D	93.7		532.94	-65.5	5.7	-23.7	-3.1	-0.26	0.0	0.0	0.0	0.0	6.7
Motor & Pump P 300	Leq,D	97.1	2	521.39	-65.3	5.6	-20.0	-1.5	-0.23	0.0	1.2	0.0	0.0	16.9
Motor & Pump P 301	Leq,D	102.1	2	521.69	-65.3	5.6	-19.9	-1.5	-0.23	0.0	1.2	0.0	0.0	21.9
Motor & Pump P 302	Leq,D	97.1	2	521.08	-65.3	5.6	-20.0	-1.5	-0.03	0.0	1.0	0.0	0.0	16.9
Motor & Pump P 303	Leq,D	97.1	2	520.93	-65.3	5.6	-21.4	-1.6		0.0	1.6	0.0	0.0	16.0
Motor & Pump P 305	Leq,D	97.5	2	520.68	-65.3	5.6	-20.1	-1.5		0.0	1.2	0.0	0.0	17.4
Motor & Pump P 306	Leq,D	112.6	4	519.15	-65.3	5.5	-21.5	-1.7		0.0	0.8	0.0	0.0	30.4
Motor & Pump P 307	Leq,D	102.1	2	522.58	-65.4	5.6	-19.4	-1.5	-0.23	0.0	0.0	0.0	0.0	21.2
Motor & Pump P 309	Leq,D	97.5	2	520.44	-65.3	5.6	-23.0	-1.8		0.0	1.7	0.0	0.0	14.7
Motor & Pump P 312	Leq,D	101.5	2	527.07	-65.4	5.7	-21.0	-1.6	-0.24	0.0	0.0	0.0	0.0	18.9
Motor & Pump P 313	Leq,D	101.5	2	527.48	-65.4	5.7	-20.3	-1.5	-0.55	0.0	0.0	0.0	0.0	19.4
Motor & Pump P 315	Leq,D	102.9	2	529.24	-65.5	5.6	-16.5	-1.5	-0.55	0.0	0.0	0.0	0.0	24.5
Motor & Pump P 316	Leq,D	102.9	2	529.73	-65.5	5.6	-18.5	-1.5	-0.55	0.0	0.1	0.0	0.0	22.7
Motor & Pump P 317	Leq,D	102.9	2	530.12	-65.5	5.6	-22.6	-1.9	-0.06	0.0	0.3	0.0	0.0	18.7
Motor & Pump P 318	Leq,D	100.2	1	528.28	-65.4	5.7	-16.8	-1.5	-0.55	0.0	0.0	0.0	0.0	21.6
Motor & Pump P 319	Leq,D	100.2	1	527.93	-65.4	5.7	-16.8	-1.5	-0.54	0.0	0.0	0.0	0.0	21.6
Motor & Pump P 327	Leq,D	111.2	3	518.70	-65.3	5.6	-23.6	-2.8		0.0	2.9	0.0	0.0	28.1
Motor & Pump P 328	Leq,D	109.9	5	519.99	-65.3	5.5	-22.7	-1.7		0.0	1.7	0.0	0.0	27.4
Motor & Pump P 329	Leq,D	110.2	5	519.54	-65.3	5.5	-22.7	-1.7		0.0	1.6	0.0	0.0	27.5
Motor & Pump P 451	Leq,D	93.7		505.30	-65.1	5.5	-22.8	-2.7		0.0	1.4	0.0	0.0	10.0
Motor & Pump P 453	Leq,D	93.7		506.42	-65.1	5.5	-21.9	-2.5		0.0	0.0	0.0	0.0	9.7
Motor & Pump P 454	Leq,D	93.7		506.58	-65.1	5.5	-22.8	-2.7		0.0	0.0	0.0	0.0	8.6
Motor & Pump P 457	Leq,D	93.7		506.94	-65.1	5.5	-21.8	-2.5		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 458	Leq,D	93.7		504.21	-65.0	5.5	-22.8	-2.7		0.0	0.0	0.0	0.0	8.7
Motor & Pump P 459	Leq,D	93.7		506.27	-65.1	5.5	-21.7	-2.2		0.0	0.0	0.0	0.0	10.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		483.18	-64.7	5.6	-19.6	-1.9	-0.31	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		482.73	-64.7	5.6	-19.5	-1.9	-0.30	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		466.03	-64.4	5.6	-23.9	-2.8	-0.21	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		465.80	-64.4	5.6	-22.9	-2.3	-0.18	0.0	0.0	0.0	0.0	11.2
Motor & Pump P 1601 A	Leq,D	96.3	2	455.82	-64.2	5.4	-21.9	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P 1601 B	Leq,D	96.3	2	454.33	-64.1	5.4	-22.0	-2.0		0.0	0.0	0.0	0.0	13.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1602 A	Leq,D	96.3	2	453.27	-64.1	5.4	-22.0	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P 1602 B	Leq,D	96.5	2	451.83	-64.1	5.4	-22.2	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	474.05	-64.5	5.6	-23.4	-2.8	-0.25	0.0	0.0	0.0	0.0	11.3
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	472.80	-64.5	5.6	-16.7	-1.8	-0.18	0.0	0.0	0.0	0.0	19.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	472.16	-64.5	5.6	-16.8	-1.8	-0.18	0.0	0.0	0.0	0.0	18.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	481.79	-64.6	5.6	-16.5	-1.9	-0.31	0.0	0.0	0.0	0.0	19.0
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	481.31	-64.6	5.6	-16.5	-1.9	-0.31	0.0	0.0	0.0	0.0	19.0
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	464.27	-64.3	5.6	-17.0	-1.8	-0.02	0.0	0.0	0.0	0.0	18.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	466.49	-64.4	5.6	-17.0	-1.8	-0.07	0.0	0.0	0.0	0.0	18.7
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	470.41	-64.4	5.6	-17.3	-1.8	-0.17	0.0	0.0	0.0	0.0	18.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	468.68	-64.4	5.6	-16.9	-1.8	-0.13	0.0	0.0	0.0	0.0	18.6
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	482.85	-64.7	5.4	-21.8	-1.6		0.0	1.1	0.0	0.0	22.5
P-2 A/B	Leq,D	98.5		341.64	-61.7	5.7	-24.4	-1.5		0.0	2.4	0.0	0.0	19.0
P-50 A/B	Leq,D	98.1		338.50	-61.6	5.7	-24.0	-1.4	-0.16	0.0	0.3	0.0	0.0	17.0
P-51 A/B	Leq,D	98.1		342.13	-61.7	5.7	-23.4	-1.3	-0.16	0.0	0.0	0.0	0.0	17.2
P-060 A/B	Leq,D	98.1		329.73	-61.4	5.6	-24.3	-1.4	-0.16	0.0	0.0	0.0	0.0	16.5
P-63	Leq,D	98.5		362.99	-62.2	5.7	-24.5	-1.6		0.0	0.0	0.0	0.0	15.9
P-70 A/B	Leq,D	98.1		333.65	-61.5	5.6	-24.2	-1.4	-0.16	0.0	0.1	0.0	0.0	16.6
P-73 A/B	Leq,D	98.5		343.43	-61.7	5.7	-24.4	-1.5		0.0	2.4	0.0	0.0	18.9
P-251 A/B	Leq,D	98.2		410.49	-63.3	5.7	-22.6	-1.4	-0.69	0.0	0.2	0.0	0.0	16.2
P-252 A/B	Leq,D	98.2		400.75	-63.0	5.7	-22.7	-1.4	-0.32	0.0	0.2	0.0	0.0	16.7
P-253	Leq,D	98.2		394.67	-62.9	5.7	-22.8	-1.4	-0.31	0.0	0.2	0.0	0.0	16.7
P-254 A/B	Leq,D	98.2		401.60	-63.1	5.7	-22.5	-1.3	-0.62	0.0	0.2	0.0	0.0	16.6
P-255 A/B	Leq,D	98.2		404.27	-63.1	5.7	-22.4	-1.3	-0.67	0.0	0.2	0.0	0.0	16.5
P-255 A/B	Leq,D	98.2		416.12	-63.4	5.7	-22.6	-1.4	-0.69	0.0	0.2	0.0	0.0	16.1
P-256 A/B	Leq,D	98.2		407.75	-63.2	5.7	-22.7	-1.4	-0.68	0.0	0.2	0.0	0.0	16.2
P-259 A/B	Leq,D	98.2		413.21	-63.3	5.7	-22.6	-1.4	-0.69	0.0	0.2	0.0	0.0	16.2
P-260	Leq,D	99.1		416.28	-63.4	5.7	-22.7	-1.4	-0.33	0.0	0.0	0.0	0.0	17.0
P-261 A/B	Leq,D	98.0		435.93	-63.8	5.7	-20.1	-1.4	-0.35	0.0	0.0	0.0	0.0	18.2
P-262 A/B	Leq,D	99.1		423.25	-63.5	5.7	-22.4	-1.4	-0.33	0.0	0.0	0.0	0.0	17.1
P-263 A/B	Leq,D	99.4		419.80	-63.5	5.7	-22.5	-1.4	-0.32	0.0	0.0	0.0	0.0	17.4
P-270 A/B	Leq,D	98.5		368.54	-62.3	5.7	-22.3	-1.3	-0.29	0.0	0.0	0.0	0.0	18.0
P-271 A/B	Leq,D	98.2		394.08	-62.9	5.7	-22.7	-1.4	-0.33	0.0	0.7	0.0	0.0	17.3
P-272 A/B	Leq,D	98.2		397.71	-63.0	5.7	-22.6	-1.3	-0.47	0.0	0.4	0.0	0.0	16.9
P-273 A/B	Leq,D	98.5		371.13	-62.4	5.7	-22.5	-1.3	-0.30	0.0	0.0	0.0	0.0	17.7
P-275 A/B/C	Leq,D	98.2		385.62	-62.7	5.7	-22.7	-1.3	-0.27	0.0	0.4	0.0	0.0	17.2
P-305	Leq,D	99.3		403.74	-63.1	5.7	-22.0	-1.3	-1.65	0.0	1.8	0.0	0.0	18.8
P-306	Leq,D	100.8		398.00	-63.0	5.7	-22.7	-1.4	-1.49	0.0	2.4	0.0	0.0	20.4
P-309	Leq,D	99.3		402.26	-63.1	5.7	-22.0	-1.3	-1.64	0.0	2.4	0.0	0.0	19.4
P-328	Leq,D	100.8		394.75	-62.9	5.7	-23.0	-1.4	-1.29	0.0	1.2	0.0	0.0	19.1
P-329	Leq,D	100.8		396.22	-63.0	5.7	-22.8	-1.4	-1.39	0.0	1.2	0.0	0.0	19.2
P-353	Leq,D	98.5		391.20	-62.8	5.5	-18.7	-1.2	-1.39	0.0	0.9	0.0	0.0	20.8
P-358 A/B	Leq,D	99.4		359.75	-62.1	5.7	-21.8	-1.2	-0.82	0.0	1.4	0.0	0.0	20.5
P-359 A/B	Leq,D	99.4		363.47	-62.2	5.7	-22.8	-1.3	-0.94	0.0	1.7	0.0	0.0	19.5
P-360 A/B	Leq,D	99.4		370.87	-62.4	5.7	-22.6	-1.3	-1.00	0.0	1.8	0.0	0.0	19.6
P-361A	Leq,D	98.1		312.62	-60.9	5.3	-22.8	-1.2	-0.20	0.0	0.0	0.0	0.0	18.4
P-371 A/B	Leq,D	98.0		451.19	-64.1	5.5	-17.2	-1.4		0.0	0.0	0.0	0.0	20.9
P-373 A/B	Leq,D	98.0		432.97	-63.7	5.5	-19.7	-1.3		0.0	0.0	0.0	0.0	18.8
P-374 A/B	Leq,D	98.0		436.49	-63.8	5.5	-20.4	-1.5		0.0	0.0	0.0	0.0	17.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-375 A/B	Leq,D	98.0		444.50	-63.9	5.5	-20.7	-1.5		0.0	0.0	0.0	0.0	17.4
P-376	Leq,D	98.0		438.81	-63.8	5.5	-20.5	-1.5		0.0	0.0	0.0	0.0	17.7
P-376 A/B	Leq,D	98.0		429.11	-63.6	5.5	-18.2	-1.3		0.0	0.0	0.0	0.0	20.4
P-377	Leq,D	98.0		440.86	-63.9	5.5	-20.6	-1.5		0.0	0.0	0.0	0.0	17.6
P-1101 A	Leq,D	98.9		327.96	-61.3	5.4	-23.3	-1.3		0.0	0.0	0.0	0.0	18.3
P-1103	Leq,D	98.9		328.56	-61.3	5.4	-23.4	-1.3		0.0	0.0	0.0	0.0	18.2
P-1105 A/B/C	Leq,D	98.9		325.35	-61.2	5.4	-23.4	-1.3		0.0	1.9	0.0	0.0	20.2
P-1800	Leq,D	98.9		354.94	-62.0	5.7	-4.9	-1.6		0.0	0.3	0.0	0.0	36.3
P-1801	Leq,D	98.9		338.32	-61.6	5.7	-24.9	-1.6		0.0	6.1	0.0	0.0	22.6
P-1802	Leq,D	98.9		335.88	-61.5	5.6	-24.9	-1.6		0.0	7.6	0.0	0.0	24.1
P-1803	Leq,D	99.1		297.02	-60.4	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.3
P-1804	Leq,D	99.1		303.19	-60.6	5.6	-24.0	-1.3		0.0	0.0	0.0	0.0	18.8
P-1805	Leq,D	99.1		301.56	-60.6	5.6	-24.3	-1.3		0.0	0.0	0.0	0.0	18.5
P-1806	Leq,D	99.1		311.20	-60.9	5.6	-24.3	-1.4		0.0	2.0	0.0	0.0	20.2
P-1809 A	Leq,D	98.9		346.37	-61.8	5.7	-24.8	-1.6		0.0	2.6	0.0	0.0	18.9
P-1810 A/B/C	Leq,D	99.0		290.16	-60.2	5.6	-24.2	-1.3		0.0	0.0	0.0	0.0	18.9
P-1811 A/B	Leq,D	99.1		307.17	-60.7	5.6	-24.3	-1.4		0.0	2.0	0.0	0.0	20.3
P-1811 A/B	Leq,D	99.1		299.68	-60.5	5.6	-24.4	-1.3		0.0	0.0	0.0	0.0	18.5
P-1847 A/B	Leq,D	99.4		249.82	-58.9	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.8
P-1849 A/B	Leq,D	99.4		245.20	-58.8	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.9
P-1853	Leq,D	99.1		422.63	-63.5	5.7	-22.5	-1.4	-0.68	0.0	0.8	0.0	0.0	17.6
Piping Furnace Tanks	Leq,D	87.1	72	367.51	-62.3	4.1	-23.6	-6.8		0.0	0.2	0.0	0.0	-1.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	387.43	-62.8	4.3	-21.4	-5.3		0.0	0.1	0.0	0.0	13.4
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	403.75	-63.1	4.9	-24.7	-3.2		0.0	0.0	0.0	0.0	28.4
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	401.56	-63.1	4.9	-24.8	-8.2		0.0	0.2	0.0	0.0	24.2
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	214.88	-57.6	3.6	-11.4	-0.8		0.0	1.2	0.0	0.0	45.4
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	208.09	-57.4	3.5	-18.4	-0.7		0.0	0.3	0.0	0.0	38.5
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	230.57	-58.2	3.5	-23.0	-1.0		0.0	0.4	0.0	0.0	25.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	243.75	-58.7	3.6	-23.1	-1.0		0.0	4.1	0.0	0.0	36.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	244.55	-58.8	3.6	-23.8	-1.1		0.0	0.2	0.0	0.0	24.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	224.38	-58.0	3.5	-23.6	-1.0		0.0	0.2	0.0	0.0	24.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	240.06	-58.6	3.6	-23.4	-1.0		0.0	0.3	0.0	0.0	27.6
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	248.32	-58.9	3.6	-24.0	-1.1		0.0	0.1	0.0	0.0	25.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	226.27	-58.1	3.0	-20.4	-0.7		0.0	1.4	0.0	0.0	38.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	387.27	-62.8	3.3	-19.2	-2.3		0.0	0.0	0.0	0.0	-0.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	406.72	-63.2	4.9	-24.9	-3.4		0.0	0.0	0.0	0.0	30.1
Reformer-Burner Reformer East	Leq,D	97.3	269	349.75	-61.9	3.5	-17.9	-1.2		0.0	0.0	0.0	0.0	22.8
Reformer-Burner Reformer North	Leq,D	95.9	192	361.27	-62.1	3.4	-23.5	-1.9		0.0	0.2	0.0	0.0	11.9
Reformer-Burner Reformer South	Leq,D	95.8	191	343.56	-61.7	3.4	-20.7	-1.5		0.0	0.6	0.0	0.0	18.6
Reformer-Burner Reformer West	Leq,D	97.3	268	354.90	-62.0	3.0	-21.8	-1.7		0.0	0.0	0.0	0.0	17.8
RFG A from battery to process	Leq,D	99.4	87	381.75	-62.6	4.3	-21.1	-5.1		0.0	0.1	0.0	0.0	14.9
RFG A from battery to process w NC	Leq,D	115.2	42	400.68	-63.0	4.9	-24.9	-8.7		0.0	0.1	0.0	0.0	23.6
Stack Noise	Leq,D	108.4		318.11	-61.0	3.0	-5.9	-0.7		-5.4	0.0	0.0	0.0	38.3
Steam Turbine-Facade 01	Leq,D	99.6	29	416.94	-63.4	5.3	-23.7	-4.8		0.0	0.0	0.0	0.0	13.0
Steam Turbine-Facade 02	Leq,D	96.2	13	412.55	-63.3	5.3	-23.8	-4.8		0.0	0.0	0.0	0.0	9.6
Steam Turbine-Facade 03	Leq,D	99.6	29	415.64	-63.4	5.3	-23.9	-5.0		0.0	0.0	0.0	0.0	12.7
Steam Turbine-Facade 04	Leq,D	96.2	13	420.07	-63.5	5.3	-24.2	-5.3		0.0	0.0	0.0	0.0	8.6
Steam Turbine-Roof 01	Leq,D	99.7	30	416.30	-63.4	4.9	-23.9	-5.0		0.0	0.0	0.0	0.0	12.4
Tank Farm Pump 1	Leq,D	99.0	3	244.38	-58.8	5.2	-20.1	-1.3		0.0	0.0	0.0	0.0	24.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Tank Farm Pump 2	Leq,D	99.0	3	228.17	-58.2	5.1	-22.4	-1.3		0.0	0.3	0.0	0.0	22.5
Tank Farm Pump 3	Leq,D	99.0	3	223.95	-58.0	5.1	-22.2	-1.3		0.0	0.0	0.0	0.0	22.6
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	641.72	-67.1	5.0	-10.3	-4.3	-0.02	0.0	0.1	-11.8	0.0	24.0
XF-1502 Splitter Area 1	Leq,D	104.5		469.62	-64.4	3.9	-11.7	-1.7	-0.10	-3.1	0.0	0.0	0.0	27.4
XF-1502 Splitter Area 2	Leq,D	104.5		470.60	-64.4	3.9	-15.8	-1.6	-0.07	-2.8	0.0	0.0	0.0	23.8
XF-1504 Splitter Area 1	Leq,D	104.5		465.36	-64.3	3.9	-11.8	-1.7	-0.02	-3.1	0.0	0.0	0.0	27.4
XF-1504 Splitter Area 2	Leq,D	104.5		466.35	-64.4	3.9	-16.2	-1.5	-0.02	-2.7	0.0	0.0	0.0	23.5
XF 251, 250, 271, 270	Leq,D	101.1	128	390.45	-62.8	3.8	-14.6	-0.6	0.00	-1.4	0.1	0.0	0.0	25.6
XF 260, 261A, 261 B	Leq,D	99.9	97	431.07	-63.7	4.1	-15.6	-0.6	0.00	-1.4	0.0	0.0	0.0	22.6
XF 304, XF 321	Leq,D	110.5	56	527.88	-65.4	4.1	-15.5	-0.8	-0.04	-1.4	0.3	0.0	0.0	31.7
XF 313, XF 314	Leq,D	113.0	18	523.22	-65.4	4.4	-15.5	-1.2		-2.5	0.5	0.0	0.0	33.4
XF 335-1, XF 335-2	Leq,D	113.4	54	525.69	-65.4	4.1	-15.0	-1.0	-0.05	-1.6	0.5	0.0	0.0	34.9
XF 353A/B	Leq,D	95.4	35	362.21	-62.2	3.7	-16.2	-0.5	-0.01	-1.5	0.2	0.0	0.0	18.9
XF 353A/B	Leq,D	95.4	35	352.86	-61.9	3.6	-13.8	-0.5	0.00	-1.5	0.0	0.0	0.0	21.3
XF 354A/B	Leq,D	95.4	35	398.04	-63.0	3.9	-14.3	-0.6		-1.5	0.2	0.0	0.0	20.2
XF 503	Leq,D	113.0	21	521.69	-65.3	4.5	-18.1	-1.5	-0.47	-2.7	0.0	0.0	0.0	29.6
XF - 1601	Leq,D	96.6		454.27	-64.1	3.0	-11.0	-0.7		-0.9	0.0	0.0	0.0	22.8
XF - 1602	Leq,D	96.6		448.59	-64.0	3.0	-11.2	-0.6		-1.0	0.0	0.0	0.0	22.8
XF Module 1510	Leq,D	108.3		477.21	-64.6	4.1	-16.3	-1.6	-0.23	-2.7	0.0	0.0	0.0	27.0
XF Module 1519	Leq,D	109.0		475.79	-64.5	4.1	-12.0	-1.7	-0.23	-3.0	0.0	0.0	0.0	31.6
xxxx xxxx xxxx xxxx	Leq,D		228								9.1			32.5
xxxx xxxx xxxx xxxx	Leq,D		520								4.3			61.7
xxxx xxxx xxxx xxxx	Leq,D		1341								5.9			45.8
xxxx xxxx xxxx xxxx	Leq,D		450								5.6			31.7
Receiver E-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.0 dB(A) Ld 7-19 dB(A) Leq,N 60.9 dB(A) Le 19-22 dB(A) CNEL 67.2 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	411.43	-63.3	5.3	-20.9	-1.7		0.0	0.0	0.0	0.0	23.7
18-1855 A/B	Leq,D	98.8		449.75	-64.1	5.6	-22.5	-1.5		0.0	0.0	0.0	0.0	16.4
18-1856 A/B	Leq,D	98.8		443.61	-63.9	5.6	-21.8	-1.4		0.0	0.0	0.0	0.0	17.3
18-1857 A/B	Leq,D	98.8		455.70	-64.2	5.6	-22.5	-1.5		0.0	0.0	0.0	0.0	16.3
18-1858 A/B	Leq,D	98.8		459.89	-64.2	5.5	-22.7	-1.5		0.0	0.0	0.0	0.0	15.8
18-PK 1802 Air Compressor Package	Leq,D	103.1		443.43	-63.9	5.7	-18.5	-0.7		0.0	0.0	0.0	0.0	25.7
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	589.30	-66.4	5.6	-19.9	-1.4	-0.12	0.0	0.0	-2.7	0.0	24.0
Air Compressor C 1	Leq,D	110.0	5	604.29	-66.6	5.7	-22.8	-1.5		0.0	4.6	0.0	0.0	29.4
Air Compressor Pump	Leq,D	100.3		521.34	-65.3	5.6	-22.6	-2.8		0.0	0.0	0.0	0.0	15.1
Blower F 401	Leq,D	113.0		617.97	-66.8	5.5	-19.6	-0.8	-0.14	0.0	0.0	0.0	0.0	31.3
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	471.10	-64.5	5.4	-19.9	-0.9	-0.89	0.0	1.2	0.0	0.0	19.1
Boiler Feed Water Pump A	Leq,D	97.1	3	432.45	-63.7	5.5	-21.9	-1.5		0.0	0.0	0.0	0.0	15.5
Boiler Feed Water Pump B	Leq,D	97.1	3	433.84	-63.7	5.5	-21.9	-1.5		0.0	0.0	0.0	0.0	15.5
C370 A Motor	Leq,D	103.6	3	502.98	-65.0	5.1	-20.4	-1.5		0.0	0.0	0.0	0.0	21.9
C370 B Motor	Leq,D	108.6	3	493.28	-64.9	5.1	-20.7	-1.5		0.0	0.0	0.0	0.0	26.8
C370A	Leq,D	103.8	5	501.18	-65.0	5.2	-20.3	-1.5		0.0	0.0	0.0	0.0	22.2
C370B	Leq,D	103.8	5	491.46	-64.8	5.2	-20.7	-1.5		0.0	0.0	0.0	0.0	22.0
C-270 A	Leq,D	106.3	6	452.76	-64.1	5.1	-20.4	-1.4	-0.92	0.0	0.2	0.0	0.0	24.9
C-270 B	Leq,D	106.3	6	456.66	-64.2	5.2	-20.3	-1.4	-0.94	0.0	0.3	0.0	0.0	25.0
C-270 C	Leq,D	106.3	6	460.45	-64.3	5.2	-20.0	-1.4	-0.88	0.0	0.4	0.0	0.0	25.4
C-301 Compressor	Leq,D	106.8	3	424.96	-63.6	5.1	-19.8	-1.3	-0.18	0.0	0.0	0.0	0.0	27.1
C-301 Motor	Leq,D	106.8	4	427.93	-63.6	5.1	-21.2	-2.0	-0.22	0.0	0.0	0.0	0.0	24.8
C-351 Compressor	Leq,D	106.8	4	433.92	-63.7	5.1	-21.0	-1.4	-0.71	0.0	0.0	0.0	0.0	25.1
C-351 Motor	Leq,D	106.8	5	437.05	-63.8	4.9	-21.5	-2.1	-0.87	0.0	0.0	0.0	0.0	23.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	603.04	-66.6	5.7	-17.7	-0.8	-0.23	0.0	0.0	-33.5	0.0	21.6
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	635.20	-67.1	5.4	-22.1	-1.5	-0.50	0.3	0.0	0.0	0.0	19.2
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	630.08	-67.0	5.4	-21.5	-1.7	-0.80	0.0	0.0	0.0	0.0	14.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	640.88	-67.1	5.4	-18.9	-1.1	-0.62	4.6	0.0	0.0	0.0	28.6
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	645.24	-67.2	5.4	-23.7	-1.8	-0.42	-4.0	0.0	0.0	0.0	18.9
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	632.61	-67.0	5.4	-24.6	-2.2	-0.12	-3.9	0.0	0.0	0.0	11.3
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	653.61	-67.3	5.4	-23.0	-2.0	-0.35	-7.8	0.0	0.0	0.0	5.3
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	563.43	-66.0	5.4	-23.7	-2.1		0.3	0.1	0.0	0.0	11.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	575.46	-66.2	5.3	-23.5	-2.0		-7.8	0.0	0.0	0.0	3.7
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	539.89	-65.6	5.1	-22.1	-1.6		0.2	0.0	0.0	0.0	16.6
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	557.25	-65.9	5.2	-23.5	-2.0		-7.8	3.5	0.0	0.0	10.1
Cooling Tower M 512	Leq,D	95.7		571.20	-66.1	5.6	-24.3	-2.4		0.0	0.0	0.0	0.0	8.5
Cooling Tower M 513	Leq,D	95.7		572.63	-66.1	5.6	-24.1	-2.4		0.0	0.0	0.0	0.0	8.6
Cooling Tower M 514	Leq,D	95.7		569.78	-66.1	5.6	-24.3	-2.4		0.0	0.0	0.0	0.0	8.4
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	429.94	-63.7	4.3	-16.8	-0.6		-1.5	0.0	0.0	0.0	17.5
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	420.74	-63.5	5.2	-14.9	-0.1		0.0	0.0	0.0	0.0	22.0
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	421.39	-63.5	5.2	-15.3	-0.1		0.0	0.0	0.0	0.0	19.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	421.99	-63.5	4.7	-13.5	-0.1		0.0	0.0	0.0	0.0	21.0
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	422.58	-63.5	5.1	-16.6	-0.1		0.0	0.0	0.0	0.0	18.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	423.24	-63.5	5.2	-16.5	-0.1		0.0	0.0	0.0	0.0	20.3
FD Motor	Leq,D	103.3	2	419.59	-63.4	5.3	-24.3	-3.0		0.0	2.6	0.0	0.0	20.4
Feed Compressor -B Motor	Leq,D	103.8	5	468.34	-64.4	5.1	-22.5	-2.4		0.0	0.0	0.0	0.0	19.6
Feed Compressor-A Compressor	Leq,D	104.0	5	478.98	-64.6	5.2	-20.4	-1.4		0.0	0.0	0.0	0.0	22.7
Feed Compressor-A Motor	Leq,D	103.8	6	481.03	-64.6	5.1	-22.1	-2.3		0.0	0.1	0.0	0.0	19.9
Feed Compressor-B Compressor	Leq,D	104.0	7	465.91	-64.4	5.2	-21.0	-1.4		0.0	0.0	0.0	0.0	22.4
H2S Compressor 18-C-271	Leq,D	105.3	6	609.01	-66.7	5.5	-22.4	-2.0	-0.42	0.0	0.0	0.0	0.0	19.4
Heater # 5-Heater	Leq,D	91.1	13	469.58	-64.4	5.5	-23.1	-1.3	-0.97	0.0	3.7	0.0	0.0	13.4
Heater # 5-Heater	Leq,D	91.1	13	473.09	-64.5	5.5	-23.7	-1.4	-1.14	0.0	1.5	0.0	0.0	10.3
Heater # 5-Heater	Leq,D	91.1	13	466.19	-64.4	5.5	-22.9	-1.2	-0.89	0.0	1.2	0.0	0.0	11.4
Hydro Heater H-402	Leq,D	98.1		597.32	-66.5	5.6	-24.6	-1.9		0.0	0.0	0.0	0.0	10.7
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	410.99	-63.3	5.3	-8.0	-0.1		0.0	0.0	0.0	0.0	20.9
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	411.67	-63.3	5.3	-22.8	-0.1		0.0	0.5	0.0	0.0	6.8
ID Fan-ID Fan - North	Leq,D	92.2	8	412.19	-63.3	5.3	-10.4	-0.1		0.0	0.0	0.0	0.0	23.7
ID Fan-ID Fan - North 2	Leq,D	91.4	7	410.02	-63.2	5.3	-22.7	-0.1		0.0	0.0	0.0	0.0	10.7
ID Fan-ID Fan - South	Leq,D	92.3	9	413.18	-63.3	5.3	-22.9	-0.1		0.0	0.4	0.0	0.0	11.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	410.46	-63.3	5.3	-23.1	-0.1		0.0	0.6	0.0	0.0	10.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	412.04	-63.3	4.9	-12.1	-0.1		0.0	0.8	0.0	0.0	24.3
Motor & Pump P 56A/B	Leq,D	93.7		601.43	-66.6	5.6	-24.6	-3.7	-0.15	0.0	0.0	0.0	0.0	4.3
Motor & Pump P 120/121	Leq,D	96.2	2	605.65	-66.6	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	10.8
Motor & Pump P 211/212	Leq,D	93.7		626.24	-66.9	5.7	-24.5	-3.7	-0.58	0.0	0.0	0.0	0.0	3.6
Motor & Pump P 215/214	Leq,D	94.6		625.31	-66.9	5.7	-22.5	-2.6	-0.60	0.0	0.0	0.0	0.0	7.8
Motor & Pump P 216	Leq,D	98.3		632.56	-67.0	5.6	-24.7	-4.0	-0.25	0.0	0.0	0.0	0.0	8.0
Motor & Pump P 217/218	Leq,D	93.7		626.01	-66.9	5.8	-24.8	-4.0	-0.26	0.0	0.0	0.0	0.0	3.4
Motor & Pump P 300	Leq,D	97.1	2	617.09	-66.8	5.7	-22.7	-1.9	-0.23	0.0	0.0	0.0	0.0	11.1
Motor & Pump P 301	Leq,D	102.1	2	617.34	-66.8	5.7	-22.7	-1.9	-0.23	0.0	0.0	0.0	0.0	16.2
Motor & Pump P 302	Leq,D	97.1	2	616.83	-66.8	5.7	-22.8	-2.0	-0.12	0.0	0.0	0.0	0.0	11.1
Motor & Pump P 303	Leq,D	97.1	2	616.72	-66.8	5.7	-23.1	-2.0		0.0	0.0	0.0	0.0	10.8
Motor & Pump P 305	Leq,D	97.5	2	616.51	-66.8	5.7	-22.8	-2.0		0.0	0.0	0.0	0.0	11.7
Motor & Pump P 306	Leq,D	112.6	4	615.21	-66.8	5.6	-22.5	-2.1		0.0	0.1	0.0	0.0	27.0
Motor & Pump P 307	Leq,D	102.1	2	618.09	-66.8	5.7	-22.2	-1.9	-0.23	0.0	0.0	0.0	0.0	16.6
Motor & Pump P 309	Leq,D	97.5	2	616.31	-66.8	5.7	-23.7	-2.2		0.0	0.0	0.0	0.0	10.5
Motor & Pump P 312	Leq,D	101.5	2	621.87	-66.9	5.7	-22.3	-1.9	-0.54	0.0	0.0	0.0	0.0	15.7
Motor & Pump P 313	Leq,D	101.5	2	622.22	-66.9	5.7	-22.2	-1.9	-0.54	0.0	0.0	0.0	0.0	15.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 315	Leq,D	102.9	2	623.75	-66.9	5.7	-24.5	-2.5	-0.06	0.0	0.0	0.0	0.0	14.7
Motor & Pump P 316	Leq,D	102.9	2	624.16	-66.9	5.7	-20.9	-1.8	-0.54	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 317	Leq,D	102.9	2	624.48	-66.9	5.7	-20.9	-1.8	-0.54	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 318	Leq,D	100.2	1	622.86	-66.9	5.8	-21.1	-1.8	-0.54	0.0	0.0	0.0	0.0	15.6
Motor & Pump P 319	Leq,D	100.2	1	622.56	-66.9	5.8	-21.1	-1.8	-0.54	0.0	0.0	0.0	0.0	15.6
Motor & Pump P 327	Leq,D	111.2	3	614.93	-66.8	5.7	-24.5	-3.5		0.0	1.2	0.0	0.0	23.4
Motor & Pump P 328	Leq,D	109.9	5	615.91	-66.8	5.6	-23.5	-2.1		0.0	0.0	0.0	0.0	23.2
Motor & Pump P 329	Leq,D	110.2	5	615.53	-66.8	5.6	-23.7	-2.1		0.0	0.0	0.0	0.0	23.2
Motor & Pump P 451	Leq,D	93.7		597.98	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 453	Leq,D	93.7		598.46	-66.5	5.6	-24.0	-3.2		0.0	0.0	0.0	0.0	5.5
Motor & Pump P 454	Leq,D	93.7		599.31	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 457	Leq,D	93.7		598.89	-66.5	5.6	-24.0	-3.2		0.0	0.0	0.0	0.0	5.5
Motor & Pump P 458	Leq,D	93.7		596.87	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 459	Leq,D	93.7		599.04	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		577.05	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.0
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		576.67	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		561.23	-66.0	5.6	-24.6	-3.5	-0.21	0.0	0.0	0.0	0.0	6.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		561.04	-66.0	5.6	-24.1	-3.1	-0.18	0.0	0.0	0.0	0.0	7.7
Motor & Pump P 1601 A	Leq,D	96.3	2	549.36	-65.8	5.5	-23.1	-2.6		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 1601 B	Leq,D	96.3	2	547.85	-65.8	5.5	-23.4	-2.7		0.0	0.0	0.0	0.0	10.0
Motor & Pump P 1602 A	Leq,D	96.3	2	546.76	-65.7	5.5	-23.6	-2.8		0.0	0.0	0.0	0.0	9.6
Motor & Pump P 1602 B	Leq,D	96.5	2	545.31	-65.7	5.5	-23.7	-2.8		0.0	0.0	0.0	0.0	9.8
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	567.83	-66.1	5.7	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	566.81	-66.1	5.6	-22.0	-2.3	-0.18	0.0	0.0	0.0	0.0	11.7
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	566.27	-66.1	5.7	-22.0	-2.3	-0.18	0.0	0.0	0.0	0.0	11.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	575.79	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	575.39	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.5
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	558.53	-65.9	5.7	-22.2	-2.3	-0.02	0.0	0.0	0.0	0.0	11.5
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	560.78	-66.0	5.7	-22.2	-2.3	-0.07	0.0	0.0	0.0	0.0	11.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	564.74	-66.0	5.6	-22.2	-2.3	-0.16	0.0	0.0	0.0	0.0	11.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	562.99	-66.0	5.7	-22.2	-2.3	-0.12	0.0	0.0	0.0	0.0	11.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	578.70	-66.2	5.5	-23.4	-2.2		0.0	0.1	0.0	0.0	17.9
P-2 A/B	Leq,D	98.5		391.31	-62.8	5.7	-9.1	-1.3		0.0	2.7	0.0	0.0	33.6
P-50 A/B	Leq,D	98.1		397.73	-63.0	5.7	-23.1	-1.4	-0.12	0.0	0.0	0.0	0.0	16.2
P-51 A/B	Leq,D	98.1		400.84	-63.1	5.7	-23.6	-1.5	-0.13	0.0	0.0	0.0	0.0	15.6
P-060 A/B	Leq,D	98.1		390.31	-62.8	5.7	-22.7	-1.3	-0.12	0.0	0.0	0.0	0.0	16.8
P-63	Leq,D	98.5		417.39	-63.4	5.7	-24.2	-1.7		0.0	0.9	0.0	0.0	15.9
P-70 A/B	Leq,D	98.1		393.62	-62.9	5.7	-23.2	-1.4	-0.12	0.0	0.0	0.0	0.0	16.2
P-73 A/B	Leq,D	98.5		393.98	-62.9	5.7	-9.1	-1.3		0.0	2.1	0.0	0.0	33.0
P-251 A/B	Leq,D	98.2		488.49	-64.8	5.8	-20.5	-1.4	-0.82	0.0	0.0	0.0	0.0	16.4
P-252 A/B	Leq,D	98.2		479.59	-64.6	5.8	-21.7	-1.5	-0.38	0.0	0.0	0.0	0.0	15.8
P-253	Leq,D	98.2		472.90	-64.5	5.8	-20.7	-1.4	-0.37	0.0	0.0	0.0	0.0	17.0
P-254 A/B	Leq,D	98.2		478.68	-64.6	5.8	-20.6	-1.4	-0.57	0.0	0.0	0.0	0.0	16.7
P-255 A/B	Leq,D	98.2		481.64	-64.6	5.8	-20.6	-1.4	-0.66	0.0	0.0	0.0	0.0	16.6
P-255 A/B	Leq,D	98.2		494.69	-64.9	5.8	-21.5	-1.5	-0.83	0.0	0.0	0.0	0.0	15.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		485.48	-64.7	5.8	-20.6	-1.4	-0.78	0.0	0.0	0.0	0.0	16.5
P-259 A/B	Leq,D	98.2		491.49	-64.8	5.8	-20.4	-1.4	-0.82	0.0	0.0	0.0	0.0	16.4
P-260	Leq,D	99.1		496.57	-64.9	5.8	-21.3	-1.5	-0.39	0.0	0.0	0.0	0.0	16.8
P-261 A/B	Leq,D	98.0		517.76	-65.3	5.8	-21.4	-1.6	-0.41	0.0	0.0	0.0	0.0	15.1
P-262 A/B	Leq,D	99.1		504.13	-65.0	5.8	-21.5	-1.5	-0.40	0.0	0.0	0.0	0.0	16.4
P-263 A/B	Leq,D	99.4		500.41	-65.0	5.8	-21.5	-1.5	-0.39	0.0	0.0	0.0	0.0	16.8
P-270 A/B	Leq,D	98.5		441.81	-63.9	5.7	-21.0	-1.3	-0.35	0.0	0.0	0.0	0.0	17.7
P-271 A/B	Leq,D	98.2		470.31	-64.4	5.7	-20.7	-1.4	-0.30	0.0	0.0	0.0	0.0	17.1
P-272 A/B	Leq,D	98.2		474.36	-64.5	5.8	-20.7	-1.4	-0.43	0.0	0.0	0.0	0.0	16.9
P-273 A/B	Leq,D	98.5		444.77	-64.0	5.7	-20.9	-1.3	-0.36	0.0	0.0	0.0	0.0	17.6
P-275 A/B/C	Leq,D	98.2		462.93	-64.3	5.7	-20.9	-1.4	-0.25	0.0	0.0	0.0	0.0	17.2
P-305	Leq,D	99.3		468.79	-64.4	5.7	-21.3	-1.4	-1.52	0.0	0.5	0.0	0.0	16.9
P-306	Leq,D	100.8		461.77	-64.3	5.7	-21.5	-1.4	-1.66	0.0	0.4	0.0	0.0	18.1
P-309	Leq,D	99.3		467.01	-64.4	5.7	-21.2	-1.4	-1.45	0.0	0.5	0.0	0.0	17.1
P-328	Leq,D	100.8		457.74	-64.2	5.7	-21.9	-1.4	-1.49	0.0	0.0	0.0	0.0	17.5
P-329	Leq,D	100.8		459.60	-64.2	5.7	-21.7	-1.4	-1.57	0.0	0.4	0.0	0.0	18.1
P-353	Leq,D	98.5		457.54	-64.2	5.5	-20.9	-1.4	-1.43	0.0	0.0	0.0	0.0	16.1
P-358 A/B	Leq,D	99.4		426.40	-63.6	5.7	-22.6	-1.4	-0.93	0.0	0.0	0.0	0.0	16.6
P-359 A/B	Leq,D	99.4		429.54	-63.7	5.7	-22.1	-1.4	-0.88	0.0	0.0	0.0	0.0	17.1
P-360 A/B	Leq,D	99.4		435.81	-63.8	5.7	-22.8	-1.5	-0.83	0.0	0.0	0.0	0.0	16.2
P-361A	Leq,D	98.1		376.11	-62.5	5.4	-24.3	-1.6	-0.16	0.0	0.0	0.0	0.0	15.0
P-371 A/B	Leq,D	98.0		541.94	-65.7	5.6	-24.5	-2.2		0.0	0.0	0.0	0.0	11.2
P-373 A/B	Leq,D	98.0		523.30	-65.4	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.2
P-374 A/B	Leq,D	98.0		526.93	-65.4	5.6	-19.5	-1.5		0.0	0.0	0.0	0.0	17.1
P-375 A/B	Leq,D	98.0		535.17	-65.6	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	11.3
P-376	Leq,D	98.0		529.31	-65.5	5.6	-19.5	-1.5		0.0	0.0	0.0	0.0	17.1
P-376 A/B	Leq,D	98.0		519.34	-65.3	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.2
P-377	Leq,D	98.0		531.42	-65.5	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	11.4
P-1101 A	Leq,D	98.9		381.74	-62.6	5.5	-24.6	-1.7		0.0	1.1	0.0	0.0	16.5
P-1103	Leq,D	98.9		382.62	-62.6	5.5	-24.6	-1.7		0.0	1.0	0.0	0.0	16.5
P-1105 A/B/C	Leq,D	98.9		378.06	-62.5	5.5	-24.6	-1.7		0.0	1.0	0.0	0.0	16.5
P-1800	Leq,D	98.9		397.60	-63.0	5.7	-24.7	-1.8		0.0	3.5	0.0	0.0	18.6
P-1801	Leq,D	98.9		370.06	-62.4	5.7	-24.6	-1.6		0.0	1.4	0.0	0.0	17.4
P-1802	Leq,D	98.9		367.85	-62.3	5.7	-24.7	-1.6		0.0	3.5	0.0	0.0	19.5
P-1803	Leq,D	99.1		360.30	-62.1	5.7	-24.8	-1.6		0.0	0.0	0.0	0.0	16.2
P-1804	Leq,D	99.1		361.89	-62.2	5.7	-24.5	-1.6		0.0	0.0	0.0	0.0	16.5
P-1805	Leq,D	99.1		359.67	-62.1	5.7	-24.6	-1.6		0.0	0.0	0.0	0.0	16.5
P-1806	Leq,D	99.1		378.34	-62.5	5.7	-24.7	-1.7		0.0	0.0	0.0	0.0	15.9
P-1809 A	Leq,D	98.9		386.95	-62.7	5.7	-24.9	-1.8		0.0	1.1	0.0	0.0	16.3
P-1810 A/B/C	Leq,D	99.0		349.47	-61.9	5.7	-24.8	-1.6		0.0	0.0	0.0	0.0	16.4
P-1811 A/B	Leq,D	99.1		373.25	-62.4	5.7	-23.2	-1.3		0.0	0.0	0.0	0.0	17.9
P-1811 A/B	Leq,D	99.1		357.03	-62.0	5.7	-24.6	-1.6		0.0	0.0	0.0	0.0	16.5
P-1847 A/B	Leq,D	99.4		325.03	-61.2	5.6	-23.8	-1.3		0.0	0.0	0.0	0.0	18.8
P-1849 A/B	Leq,D	99.4		319.48	-61.1	5.6	-23.9	-1.3		0.0	0.0	0.0	0.0	18.7
P-1853	Leq,D	99.1		494.40	-64.9	5.8	-21.3	-1.5	-1.05	0.0	0.0	0.0	0.0	16.1
Piping Furnace Tanks	Leq,D	87.1	72	458.72	-64.2	4.4	-24.7	-8.9		0.0	0.2	0.0	0.0	-6.1
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	477.61	-64.6	4.6	-24.1	-6.9		0.0	0.1	0.0	0.0	7.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	496.61	-64.9	5.1	-24.7	-3.8		0.0	0.0	0.0	0.0	26.3
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	494.31	-64.9	5.1	-24.8	-9.0		0.0	0.1	0.0	0.0	21.7
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	267.75	-59.5	3.7	-7.2	-1.1		0.0	0.7	0.0	0.0	47.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	270.29	-59.6	3.7	-9.1	-1.0		0.0	0.0	0.0	0.0	45.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	297.56	-60.5	3.8	-23.0	-1.2		0.0	0.1	0.0	0.0	23.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	298.49	-60.5	3.8	-23.6	-1.2		0.0	0.8	0.0	0.0	30.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	308.49	-60.8	3.9	-23.7	-1.3		0.0	0.1	0.0	0.0	22.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	291.29	-60.3	3.8	-23.9	-1.2		0.0	0.2	0.0	0.0	22.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	306.44	-60.7	3.9	-23.8	-1.3		0.0	0.1	0.0	0.0	24.8
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	310.10	-60.8	3.9	-23.4	-1.2		0.0	0.2	0.0	0.0	24.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	284.99	-60.1	3.0	-10.4	-1.0		0.0	0.1	0.0	0.0	44.8
PSA Pipe 3" Lagging	Leq,D	80.6	11	479.68	-64.6	3.7	-21.9	-2.8		0.0	0.0	0.0	0.0	-5.1
PSA Skid Additional Piping w NC	Leq,D	116.6	57	499.62	-65.0	5.1	-24.9	-3.9		0.0	0.0	0.0	0.0	28.0
Reformer-Burner Reformer East	Leq,D	97.3	269	441.76	-63.9	3.8	-20.2	-1.5		0.0	0.0	0.0	0.0	18.5
Reformer-Burner Reformer North	Leq,D	95.9	192	453.00	-64.1	3.7	-24.4	-2.5		0.0	0.2	0.0	0.0	8.8
Reformer-Burner Reformer South	Leq,D	95.8	191	434.74	-63.8	3.6	-23.0	-2.0		0.0	0.5	0.0	0.0	14.0
Reformer-Burner Reformer West	Leq,D	97.3	268	445.87	-64.0	3.6	-24.6	-2.5		0.0	0.0	0.0	0.0	12.8
RFG A from battery to process	Leq,D	99.4	87	471.66	-64.5	4.6	-24.1	-6.8		0.0	0.1	0.0	0.0	8.8
RFG A from battery to process w NC	Leq,D	115.2	42	493.60	-64.9	5.1	-24.9	-9.5		0.0	0.1	0.0	0.0	21.2
Stack Noise	Leq,D	108.4		408.11	-63.2	3.0	-6.1	-1.3		-5.8	0.0	0.0	0.0	35.0
Steam Turbine-Facade 01	Leq,D	99.6	29	508.76	-65.1	5.4	-24.8	-6.5		0.0	0.0	0.0	0.0	8.6
Steam Turbine-Facade 02	Leq,D	96.2	13	504.40	-65.0	5.4	-24.8	-6.4		0.0	0.0	0.0	0.0	5.5
Steam Turbine-Facade 03	Leq,D	99.6	29	507.70	-65.1	5.4	-24.9	-6.6		0.0	0.0	0.0	0.0	8.4
Steam Turbine-Facade 04	Leq,D	96.2	13	512.09	-65.2	5.4	-24.9	-6.6		0.0	0.0	0.0	0.0	5.1
Steam Turbine-Roof 01	Leq,D	99.7	30	508.25	-65.1	5.1	-24.7	-6.2		0.0	0.0	0.0	0.0	8.7
Tank Farm Pump 1	Leq,D	99.0	3	324.65	-61.2	5.4	-23.9	-1.9		0.0	0.8	0.0	0.0	18.2
Tank Farm Pump 2	Leq,D	99.0	3	305.89	-60.7	5.3	-23.4	-1.7		0.0	0.0	0.0	0.0	18.6
Tank Farm Pump 3	Leq,D	99.0	3	300.83	-60.6	5.3	-23.9	-1.8		0.0	0.0	0.0	0.0	18.0
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	737.60	-68.3	5.1	-16.3	-2.4	-0.02	0.0	0.0	-11.8	0.0	18.6
XF-1502 Splitter Area 1	Leq,D	104.5		563.75	-66.0	4.2	-19.7	-1.8	-0.08	-2.6	0.0	0.0	0.0	18.6
XF-1502 Splitter Area 2	Leq,D	104.5		564.57	-66.0	4.2	-19.7	-1.8	-0.06	-2.6	0.0	0.0	0.0	18.6
XF-1504 Splitter Area 1	Leq,D	104.5		559.45	-65.9	4.2	-19.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	18.7
XF-1504 Splitter Area 2	Leq,D	104.5		560.27	-66.0	4.2	-19.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	18.7
XF 251, 250, 271, 270	Leq,D	101.1	128	467.14	-64.4	4.2	-15.2	-0.7	0.00	-1.5	0.0	0.0	0.0	23.5
XF 260, 261A, 261 B	Leq,D	99.9	97	511.57	-65.2	4.4	-16.8	-0.7	0.00	-1.4	0.0	0.0	0.0	20.1
XF 304, XF 321	Leq,D	110.5	56	623.50	-66.9	4.4	-16.4	-0.9	-0.04	-1.4	0.0	0.0	0.0	29.3
XF 313, XF 314	Leq,D	113.0	18	619.53	-66.8	4.7	-17.9	-1.3		-2.3	0.0	0.0	0.0	29.3
XF 335-1, XF 335-2	Leq,D	113.4	54	621.65	-66.9	4.4	-17.1	-1.1	-0.04	-1.5	0.0	0.0	0.0	31.3
XF 353A/B	Leq,D	95.4	35	426.88	-63.6	4.0	-15.3	-0.6	-0.01	-1.5	0.0	0.0	0.0	18.4
XF 353A/B	Leq,D	95.4	35	421.85	-63.5	4.0	-15.8	-0.6	0.00	-1.5	0.0	0.0	0.0	18.0
XF 354A/B	Leq,D	95.4	35	463.89	-64.3	4.2	-14.9	-0.7	0.00	-1.5	0.0	0.0	0.0	18.2
XF 503	Leq,D	113.0	21	615.39	-66.8	4.8	-22.6	-2.5	-0.25	-2.8	0.0	0.0	0.0	22.9
XF - 1601	Leq,D	96.6		547.68	-65.8	3.3	-15.7	-0.8		-1.0	0.0	0.0	0.0	16.7
XF - 1602	Leq,D	96.6		541.91	-65.7	3.3	-15.7	-0.8		-1.0	0.0	0.0	0.0	16.7
XF Module 1510	Leq,D	108.3		571.08	-66.1	4.4	-19.9	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.1
XF Module 1519	Leq,D	109.0		569.90	-66.1	4.4	-19.8	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.9
xxxx xxxx xxxx xxxx	Leq,D		228								10.8			31.7
xxxx xxxx xxxx xxxx	Leq,D		520								7.6			59.1
xxxx xxxx xxxx xxxx	Leq,D		1341								9.9			46.4
xxxx xxxx xxxx xxxx	Leq,D		450								5.2			28.4
Receiver E-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.4 dB(A) Ld 7-19 dB(A) Leq,N 61.1 dB(A) Le 19-22 dB(A) CNEL 67.5 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	395.12	-62.9	5.2	-23.1	-2.1		0.0	2.9	0.0	0.0	24.4
18-1855 A/B	Leq,D	98.8		416.24	-63.4	5.5	-21.7	-1.3		0.0	2.2	0.0	0.0	20.2
18-1856 A/B	Leq,D	98.8		409.54	-63.2	5.5	-20.8	-1.2		0.0	1.9	0.0	0.0	20.9
18-1857 A/B	Leq,D	98.8		422.71	-63.5	5.6	-21.7	-1.3		0.0	0.2	0.0	0.0	18.0
18-1858 A/B	Leq,D	98.8		427.25	-63.6	5.4	-21.0	-1.3		0.0	0.3	0.0	0.0	18.6
18-PK 1802 Air Compressor Package	Leq,D	103.1		406.52	-63.2	5.7	-5.7	-0.9		0.0	0.0	0.0	0.0	39.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	554.77	-65.9	5.5	-14.0	-2.8	-0.37	0.0	0.0	-2.7	0.0	28.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Air Compressor C 1	Leq,D	110.0	5	601.19	-66.6	5.7	-22.5	-1.4		0.0	5.1	0.0	0.0	30.4
Air Compressor Pump	Leq,D	100.3		491.19	-64.8	5.5	-21.7	-2.5		0.0	0.1	0.0	0.0	16.8
Blower F 401	Leq,D	113.0		598.06	-66.5	5.5	-18.6	-0.7	-0.06	0.0	0.0	0.0	0.0	32.6
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	410.98	-63.3	5.4	-20.2	-0.9	-0.58	0.0	0.9	0.0	0.0	20.0
Boiler Feed Water Pump A	Leq,D	97.1	3	402.98	-63.1	5.4	-20.8	-1.3		0.0	0.0	0.0	0.0	17.4
Boiler Feed Water Pump B	Leq,D	97.1	3	403.70	-63.1	5.4	-20.8	-1.3		0.0	0.0	0.0	0.0	17.4
C370 A Motor	Leq,D	103.6	3	480.17	-64.6	5.1	-19.3	-1.4		0.0	0.1	0.0	0.0	23.4
C370 B Motor	Leq,D	108.6	3	469.88	-64.4	5.1	-19.9	-1.4		0.0	0.0	0.0	0.0	27.9
C370A	Leq,D	103.8	5	479.14	-64.6	5.1	-19.3	-1.4		0.0	0.0	0.0	0.0	23.7
C370B	Leq,D	103.8	5	468.82	-64.4	5.1	-19.3	-1.4		0.0	0.0	0.0	0.0	23.9
C-270 A	Leq,D	106.3	6	403.63	-63.1	5.0	-20.4	-1.2	-1.14	0.0	0.1	0.0	0.0	25.6
C-270 B	Leq,D	106.3	6	408.01	-63.2	5.1	-20.3	-1.2	-1.10	0.0	0.1	0.0	0.0	25.6
C-270 C	Leq,D	106.3	6	412.28	-63.3	5.1	-20.5	-1.3	-1.04	0.0	0.4	0.0	0.0	25.6
C-301 Compressor	Leq,D	106.8	3	378.08	-62.5	5.0	-21.2	-1.2	-0.25	0.0	0.1	0.0	0.0	26.6
C-301 Motor	Leq,D	106.8	4	381.44	-62.6	5.0	-22.4	-2.0	-0.29	0.0	0.0	0.0	0.0	24.5
C-351 Compressor	Leq,D	106.8	4	383.82	-62.7	5.0	-20.7	-1.2	-0.88	0.0	0.0	0.0	0.0	26.4
C-351 Motor	Leq,D	106.8	5	386.22	-62.7	4.8	-21.5	-1.9	-0.94	0.0	0.0	0.0	0.0	24.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	569.81	-66.1	5.6	-13.6	-1.1	-0.41	0.0	0.0	-33.5	0.0	25.6
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	622.04	-66.9	5.4	-23.1	-1.6	-0.58	-0.2	0.0	0.0	0.0	17.8
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	617.57	-66.8	5.4	-22.5	-1.8	-0.68	0.0	0.0	0.0	0.0	14.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	628.97	-67.0	5.4	-20.5	-1.2	-0.63	2.1	0.0	0.0	0.0	24.8
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	631.95	-67.0	5.4	-24.0	-1.9	-0.38	-1.6	0.0	0.0	0.0	21.1
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	619.77	-66.8	5.4	-23.9	-1.8	-0.56	-1.5	0.0	0.0	0.0	14.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	641.27	-67.1	5.4	-23.9	-2.3	-0.17	-7.8	0.0	0.0	0.0	4.5
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	548.89	-65.8	5.3	-23.9	-2.0		-0.3	0.1	0.0	0.0	11.2
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	561.25	-66.0	5.3	-24.3	-2.2		-7.8	0.0	0.0	0.0	2.8
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	524.42	-65.4	5.1	-20.0	-1.2		-0.4	0.0	0.0	0.0	18.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	542.33	-65.7	5.2	-23.9	-2.0		-7.8	3.9	0.0	0.0	10.3
Cooling Tower M 512	Leq,D	95.7		555.81	-65.9	5.6	-24.1	-2.3		0.0	0.0	0.0	0.0	9.0
Cooling Tower M 513	Leq,D	95.7		557.25	-65.9	5.6	-24.0	-2.2		0.0	0.0	0.0	0.0	9.2
Cooling Tower M 514	Leq,D	95.7		554.32	-65.9	5.6	-24.3	-2.3		0.0	0.0	0.0	0.0	8.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	406.33	-63.2	4.2	-15.8	-0.6		-1.5	0.0	0.0	0.0	18.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	406.60	-63.2	5.1	-13.1	-0.1		0.0	0.0	0.0	0.0	24.1
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	407.77	-63.2	5.2	-13.3	-0.1		0.0	0.0	0.0	0.0	21.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	407.90	-63.2	4.7	-11.7	-0.1		0.0	0.0	0.0	0.0	23.1
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	408.03	-63.2	5.1	-15.9	-0.1		0.0	0.0	0.0	0.0	19.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	409.20	-63.2	5.1	-16.1	-0.1		0.0	0.0	0.0	0.0	21.0
FD Motor	Leq,D	103.3	2	405.42	-63.2	5.3	-24.0	-2.7		0.0	2.9	0.0	0.0	21.6
Feed Compressor -B Motor	Leq,D	103.8	5	441.16	-63.9	5.0	-21.7	-2.1		0.0	0.0	0.0	0.0	21.2
Feed Compressor-A Compressor	Leq,D	104.0	5	453.69	-64.1	5.1	-19.6	-1.3		0.0	0.3	0.0	0.0	24.4
Feed Compressor-A Motor	Leq,D	103.8	6	454.79	-64.1	5.0	-21.1	-2.1		0.0	0.1	0.0	0.0	21.7
Feed Compressor-B Compressor	Leq,D	104.0	7	439.80	-63.9	5.1	-20.0	-1.3		0.0	0.1	0.0	0.0	24.1
H2S Compressor 18-C-271	Leq,D	105.3	6	600.60	-66.6	5.5	-20.8	-1.8	-0.44	0.0	0.0	0.0	0.0	21.3
Heater # 5-Heater	Leq,D	91.1	13	410.09	-63.2	5.4	-23.1	-1.1	-0.78	0.0	2.7	0.0	0.0	13.9
Heater # 5-Heater	Leq,D	91.1	13	414.14	-63.3	5.4	-23.7	-1.3	-0.91	0.0	2.0	0.0	0.0	12.3
Heater # 5-Heater	Leq,D	91.1	13	406.16	-63.2	5.4	-23.2	-1.1	-0.66	0.0	1.4	0.0	0.0	12.7
Hydro Heater H-402	Leq,D	98.1		582.67	-66.3	5.6	-23.9	-1.6		0.0	0.0	0.0	0.0	11.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	394.21	-62.9	5.2	-23.6	-0.1		0.0	0.6	0.0	0.0	6.3
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	394.38	-62.9	5.2	-23.5	-0.1		0.0	0.3	0.0	0.0	6.3
ID Fan-ID Fan - North	Leq,D	92.2	8	395.57	-62.9	5.2	-23.4	-0.1		0.0	0.6	0.0	0.0	11.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	393.10	-62.9	5.2	-23.7	-0.1		0.0	0.8	0.0	0.0	10.7
ID Fan-ID Fan - South	Leq,D	92.3	9	395.85	-62.9	5.2	-23.4	-0.1		0.0	0.3	0.0	0.0	11.4
ID Fan-ID Fan - South 2	Leq,D	91.4	7	393.20	-62.9	5.2	-23.7	-0.1		0.0	0.3	0.0	0.0	10.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	395.04	-62.9	4.9	-23.3	-0.1		0.0	0.7	0.0	0.0	13.2
Motor & Pump P 56A/B	Leq,D	93.7		589.38	-66.4	5.6	-23.8	-3.0	-0.14	0.0	0.0	0.0	0.0	5.9
Motor & Pump P 120/121	Leq,D	96.2	2	600.61	-66.6	5.7	-22.6	-1.9	-0.23	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 211/212	Leq,D	93.7		610.98	-66.7	5.7	-20.8	-2.3	-0.58	0.0	0.0	0.0	0.0	9.0
Motor & Pump P 215/214	Leq,D	94.6		610.79	-66.7	5.7	-22.1	-2.4	-0.59	0.0	0.0	0.0	0.0	8.4
Motor & Pump P 216	Leq,D	98.3		617.53	-66.8	5.6	-21.1	-2.3	-0.73	0.0	0.0	0.0	0.0	12.9
Motor & Pump P 217/218	Leq,D	93.7		611.02	-66.7	5.8	-21.7	-2.4	-0.58	0.0	0.0	0.0	0.0	8.0
Motor & Pump P 300	Leq,D	97.1	2	612.51	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.6
Motor & Pump P 301	Leq,D	102.1	2	612.51	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	16.6
Motor & Pump P 302	Leq,D	97.1	2	612.52	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.6
Motor & Pump P 303	Leq,D	97.1	2	612.63	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.6
Motor & Pump P 305	Leq,D	97.5	2	612.64	-66.7	5.7	-23.1	-2.0	-0.22	0.0	0.0	0.0	0.0	11.2
Motor & Pump P 306	Leq,D	112.6	4	612.70	-66.7	5.6	-22.3	-2.0		0.0	0.2	0.0	0.0	27.4
Motor & Pump P 307	Leq,D	102.1	2	612.53	-66.7	5.7	-20.3	-1.7	-0.53	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 309	Leq,D	97.5	2	612.66	-66.7	5.7	-23.7	-2.1		0.0	0.0	0.0	0.0	10.6
Motor & Pump P 312	Leq,D	101.5	2	613.06	-66.7	5.7	-20.9	-1.8	-0.53	0.0	0.0	0.0	0.0	17.3
Motor & Pump P 313	Leq,D	101.5	2	613.14	-66.7	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	18.1
Motor & Pump P 315	Leq,D	102.9	2	613.73	-66.8	5.7	-20.0	-1.7	-0.53	0.0	0.0	0.0	0.0	19.6
Motor & Pump P 316	Leq,D	102.9	2	613.85	-66.8	5.7	-20.6	-1.8	-0.53	0.0	0.0	0.0	0.0	18.9
Motor & Pump P 317	Leq,D	102.9	2	613.88	-66.8	5.7	-24.5	-2.4	-0.23	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 318	Leq,D	100.2	1	613.12	-66.7	5.8	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 319	Leq,D	100.2	1	613.04	-66.7	5.8	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 327	Leq,D	111.2	3	613.61	-66.7	5.7	-24.3	-3.3		0.0	0.7	0.0	0.0	23.3
Motor & Pump P 328	Leq,D	109.9	5	612.54	-66.7	5.6	-22.9	-1.9		0.0	0.0	0.0	0.0	24.0
Motor & Pump P 329	Leq,D	110.2	5	612.59	-66.7	5.6	-23.3	-2.0		0.0	0.0	0.0	0.0	23.7
Motor & Pump P 451	Leq,D	93.7		582.27	-66.3	5.6	-20.9	-2.2		0.0	0.0	0.0	0.0	9.9
Motor & Pump P 453	Leq,D	93.7		580.91	-66.3	5.6	-21.0	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 454	Leq,D	93.7		583.70	-66.3	5.6	-20.9	-2.2		0.0	0.0	0.0	0.0	9.9
Motor & Pump P 457	Leq,D	93.7		581.12	-66.3	5.6	-21.0	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 458	Leq,D	93.7		581.13	-66.3	5.6	-20.9	-2.2		0.0	0.0	0.0	0.0	9.9
Motor & Pump P 459	Leq,D	93.7		583.58	-66.3	5.6	-20.9	-2.2		0.0	0.1	0.0	0.0	10.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		565.39	-66.0	5.6	-24.7	-3.6	-0.30	0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		565.27	-66.0	5.6	-24.7	-3.6	-0.30	0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		555.03	-65.9	5.6	-24.3	-3.2	-0.21	0.0	0.0	0.0	0.0	7.5
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		555.02	-65.9	5.6	-24.2	-3.1	-0.20	0.0	0.0	0.0	0.0	7.6
Motor & Pump P 1601 A	Leq,D	96.3	2	537.11	-65.6	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	7.9
Motor & Pump P 1601 B	Leq,D	96.3	2	535.56	-65.6	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	7.9
Motor & Pump P 1602 A	Leq,D	96.3	2	534.41	-65.5	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	7.9
Motor & Pump P 1602 B	Leq,D	96.5	2	532.91	-65.5	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	8.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	556.05	-65.9	5.7	-24.8	-3.6	-0.17	0.0	0.0	0.0	0.0	7.8
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	555.80	-65.9	5.6	-22.7	-2.5	-0.17	0.0	0.0	0.0	0.0	11.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	555.65	-65.9	5.6	-21.8	-2.2	-0.17	0.0	0.0	0.0	0.0	12.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	564.61	-66.0	5.6	-24.9	-3.7	-0.25	0.0	0.0	0.0	0.0	7.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	564.50	-66.0	5.6	-22.5	-2.4	-0.30	0.0	0.0	0.0	0.0	11.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	548.60	-65.8	5.7	-21.7	-2.2	-0.02	0.0	0.0	0.0	0.0	12.3
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	550.90	-65.8	5.7	-21.6	-2.2	-0.07	0.0	0.0	0.0	0.0	12.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	554.93	-65.9	5.6	-21.6	-2.2	-0.16	0.0	0.0	0.0	0.0	12.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	553.14	-65.8	5.6	-21.6	-2.2	-0.12	0.0	0.0	0.0	0.0	12.2
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	575.47	-66.2	5.5	-22.5	-1.9		0.0	0.2	0.0	0.0	19.2
P-2 A/B	Leq,D	98.5		324.88	-61.2	5.6	-24.0	-1.3		0.0	0.0	0.0	0.0	17.6
P-50 A/B	Leq,D	98.1		339.12	-61.6	5.7	-24.0	-1.4	-0.11	0.0	0.0	0.0	0.0	16.7
P-51 A/B	Leq,D	98.1		341.64	-61.7	5.7	-24.0	-1.4	-0.11	0.0	0.0	0.0	0.0	16.7
P-060 A/B	Leq,D	98.1		333.24	-61.4	5.6	-23.6	-1.3	-0.11	0.0	0.1	0.0	0.0	17.4
P-63	Leq,D	98.5		353.87	-62.0	5.7	-24.0	-1.4		0.0	0.0	0.0	0.0	16.8
P-70 A/B	Leq,D	98.1		335.86	-61.5	5.6	-23.4	-1.2	-0.11	0.0	0.1	0.0	0.0	17.5
P-73 A/B	Leq,D	98.5		328.14	-61.3	5.6	-23.9	-1.3		0.0	0.0	0.0	0.0	17.7
P-251 A/B	Leq,D	98.2		447.60	-64.0	5.7	-20.3	-1.3	-0.80	0.0	0.1	0.0	0.0	17.5
P-252 A/B	Leq,D	98.2		440.09	-63.9	5.7	-20.7	-1.3	-0.54	0.0	0.1	0.0	0.0	17.6
P-253	Leq,D	98.2		432.75	-63.7	5.7	-20.8	-1.3	-0.51	0.0	0.1	0.0	0.0	17.7
P-254 A/B	Leq,D	98.2		436.83	-63.8	5.7	-20.5	-1.3	-0.52	0.0	0.0	0.0	0.0	17.8
P-255 A/B	Leq,D	98.2		440.08	-63.9	5.7	-20.5	-1.3	-0.60	0.0	0.0	0.0	0.0	17.7
P-255 A/B	Leq,D	98.2		454.43	-64.1	5.7	-20.3	-1.3	-0.98	0.0	0.1	0.0	0.0	17.3
P-256 A/B	Leq,D	98.2		444.31	-63.9	5.7	-20.4	-1.3	-0.72	0.0	0.0	0.0	0.0	17.6
P-259 A/B	Leq,D	98.2		450.91	-64.1	5.7	-20.3	-1.3	-0.89	0.0	0.1	0.0	0.0	17.4
P-260	Leq,D	99.1		458.69	-64.2	5.7	-9.8	-1.5	-0.55	0.0	0.0	0.0	0.0	28.8
P-261 A/B	Leq,D	98.0		481.67	-64.6	5.8	-6.2	-1.9	-0.58	0.0	0.0	0.0	0.0	30.5
P-262 A/B	Leq,D	99.1		466.92	-64.4	5.7	-9.1	-1.6	-0.56	0.0	0.0	0.0	0.0	29.2
P-263 A/B	Leq,D	99.4		462.91	-64.3	5.7	-9.7	-1.5	-0.55	0.0	0.0	0.0	0.0	29.1
P-270 A/B	Leq,D	98.5		396.27	-63.0	5.7	-21.3	-1.2	-0.48	0.0	0.0	0.0	0.0	18.3
P-271 A/B	Leq,D	98.2		427.58	-63.6	5.7	-20.7	-1.3	-0.27	0.0	0.0	0.0	0.0	18.1
P-272 A/B	Leq,D	98.2		432.06	-63.7	5.7	-20.6	-1.3	-0.39	0.0	0.0	0.0	0.0	17.9
P-273 A/B	Leq,D	98.5		399.57	-63.0	5.7	-21.3	-1.2	-0.49	0.0	0.0	0.0	0.0	18.2
P-275 A/B/C	Leq,D	98.2		421.83	-63.5	5.7	-20.8	-1.3	-0.23	0.0	0.1	0.0	0.0	18.2
P-305	Leq,D	99.3		413.42	-63.3	5.7	-21.8	-1.3	-1.33	0.0	0.1	0.0	0.0	17.3
P-306	Leq,D	100.8		405.35	-63.1	5.7	-23.0	-1.4	-0.93	0.0	0.0	0.0	0.0	18.0
P-309	Leq,D	99.3		411.40	-63.3	5.7	-21.9	-1.3	-1.28	0.0	0.1	0.0	0.0	17.3
P-328	Leq,D	100.8		400.67	-63.0	5.7	-23.4	-1.4	-0.78	0.0	0.0	0.0	0.0	17.9
P-329	Leq,D	100.8		402.87	-63.1	5.7	-23.3	-1.4	-0.83	0.0	0.0	0.0	0.0	17.9
P-353	Leq,D	98.5		403.81	-63.1	5.5	-20.8	-1.2	-1.61	0.0	0.0	0.0	0.0	17.2
P-358 A/B	Leq,D	99.4		373.99	-62.4	5.7	-23.1	-1.3	-1.05	0.0	0.0	0.0	0.0	17.1
P-359 A/B	Leq,D	99.4		376.40	-62.5	5.7	-22.1	-1.2	-0.89	0.0	1.6	0.0	0.0	20.0
P-360 A/B	Leq,D	99.4		381.33	-62.6	5.7	-23.0	-1.3	-1.07	0.0	0.0	0.0	0.0	17.1
P-361A	Leq,D	98.1		322.46	-61.2	5.4	-24.4	-1.4	-0.13	0.0	0.0	0.0	0.0	16.4
P-371 A/B	Leq,D	98.0		522.09	-65.3	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.1
P-373 A/B	Leq,D	98.0		502.85	-65.0	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-374 A/B	Leq,D	98.0		506.65	-65.1	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-375 A/B	Leq,D	98.0		515.27	-65.2	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-376	Leq,D	98.0		509.11	-65.1	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.2
P-376 A/B	Leq,D	98.0		498.74	-64.9	5.6	-19.9	-1.4		0.0	0.0	0.0	0.0	17.3
P-377	Leq,D	98.0		511.33	-65.2	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-1101 A	Leq,D	98.9		318.98	-61.1	5.4	-24.6	-1.4		0.0	0.0	0.0	0.0	17.1
P-1103	Leq,D	98.9		320.08	-61.1	5.4	-24.6	-1.4		0.0	0.0	0.0	0.0	17.1
P-1105 A/B/C	Leq,D	98.9		314.56	-60.9	5.3	-24.6	-1.4		0.0	0.0	0.0	0.0	17.3
P-1800	Leq,D	98.9		325.87	-61.3	5.6	-24.8	-1.5		0.0	2.4	0.0	0.0	19.4
P-1801	Leq,D	98.9		292.34	-60.3	5.6	-24.6	-1.3		0.0	0.8	0.0	0.0	19.0
P-1802	Leq,D	98.9		290.33	-60.3	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	18.3
P-1803	Leq,D	99.1		307.19	-60.7	5.6	-24.8	-1.4		0.0	0.0	0.0	0.0	17.7
P-1804	Leq,D	99.1		304.32	-60.7	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1805	Leq,D	99.1		301.67	-60.6	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.1
P-1806	Leq,D	99.1		328.35	-61.3	5.6	-24.7	-1.5		0.0	0.0	0.0	0.0	17.2
P-1809 A	Leq,D	98.9		314.14	-60.9	5.6	-24.9	-1.5		0.0	2.2	0.0	0.0	19.5
P-1810 A/B/C	Leq,D	99.0		293.10	-60.3	5.6	-24.8	-1.4		0.0	0.0	0.0	0.0	18.1
P-1811 A/B	Leq,D	99.1		322.37	-61.2	5.6	-24.4	-1.4		0.0	0.0	0.0	0.0	17.7
P-1811 A/B	Leq,D	99.1		298.48	-60.5	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.2
P-1847 A/B	Leq,D	99.4		287.36	-60.2	5.6	-23.1	-1.1		0.0	4.8	0.0	0.0	25.4
P-1849 A/B	Leq,D	99.4		281.02	-60.0	5.6	-23.2	-1.1		0.0	4.9	0.0	0.0	25.6
P-1853	Leq,D	99.1		445.57	-64.0	5.7	-20.9	-1.3	-1.25	0.0	0.0	0.0	0.0	17.4
Piping Furnace Tanks	Leq,D	87.1	72	441.38	-63.9	4.4	-24.1	-6.6		0.0	0.1	0.0	0.0	-3.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	457.86	-64.2	4.6	-23.8	-6.0		0.0	0.1	0.0	0.0	9.1
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	483.15	-64.7	5.1	-24.9	-3.9		0.0	0.0	0.0	0.0	26.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	480.48	-64.6	5.1	-24.9	-9.8		0.0	0.1	0.0	0.0	20.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	211.48	-57.5	3.5	-8.2	-0.9		0.0	0.2	0.0	0.0	47.7
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	222.26	-57.9	3.3	-7.1	-0.9		0.0	0.4	0.0	0.0	48.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	252.31	-59.0	3.7	-18.6	-0.8		0.0	0.0	0.0	0.0	29.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	241.16	-58.6	3.6	-23.7	-1.0		0.0	0.5	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	259.23	-59.3	3.7	-23.8	-1.1		0.0	0.1	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	246.55	-58.8	3.6	-23.5	-1.0		0.0	0.3	0.0	0.0	24.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	259.88	-59.3	3.7	-23.6	-1.1		0.0	0.1	0.0	0.0	26.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	258.55	-59.2	3.7	-23.7	-1.1		0.0	0.3	0.0	0.0	26.1
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	233.03	-58.3	3.0	-10.5	-0.8		0.0	0.2	0.0	0.0	46.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	465.64	-64.4	3.6	-24.7	-3.6		0.0	0.0	0.0	0.0	-8.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	485.82	-64.7	5.1	-24.9	-3.9		0.0	0.0	0.0	0.0	28.1
Reformer-Burner Reformer East	Leq,D	97.3	269	427.56	-63.6	3.7	-18.4	-1.4		0.0	5.7	0.0	0.0	26.3
Reformer-Burner Reformer North	Leq,D	95.9	192	437.82	-63.8	3.7	-24.9	-2.5		0.0	0.1	0.0	0.0	8.4
Reformer-Burner Reformer South	Leq,D	95.8	191	418.76	-63.4	3.6	-22.0	-1.8		0.0	0.2	0.0	0.0	15.2
Reformer-Burner Reformer West	Leq,D	97.3	268	428.93	-63.6	3.5	-24.9	-2.5		0.0	0.0	0.0	0.0	12.8
RFG A from battery to process	Leq,D	99.4	87	451.54	-64.1	4.6	-23.8	-6.0		0.0	0.1	0.0	0.0	10.3
RFG A from battery to process w NC	Leq,D	115.2	42	480.30	-64.6	5.1	-25.0	-10.0		0.0	0.1	0.0	0.0	20.7
Stack Noise	Leq,D	108.4		390.96	-62.8	3.0	-5.6	-1.5		-5.9	0.3	0.0	0.0	36.0
Steam Turbine-Facade 01	Leq,D	99.6	29	492.30	-64.8	5.4	-24.3	-5.2		0.0	0.0	0.0	0.0	10.7
Steam Turbine-Facade 02	Leq,D	96.2	13	488.13	-64.8	5.4	-23.1	-3.8		0.0	0.0	0.0	0.0	10.0
Steam Turbine-Facade 03	Leq,D	99.6	29	491.89	-64.8	5.4	-24.7	-6.0		0.0	0.0	0.0	0.0	9.4
Steam Turbine-Facade 04	Leq,D	96.2	13	496.10	-64.9	5.4	-24.5	-5.6		0.0	0.6	0.0	0.0	7.2
Steam Turbine-Roof 01	Leq,D	99.7	30	492.06	-64.8	5.1	-22.9	-3.7		0.0	0.0	0.0	0.0	13.4
Tank Farm Pump 1	Leq,D	99.0	3	293.80	-60.4	5.3	-23.8	-1.7		0.0	0.1	0.0	0.0	18.5
Tank Farm Pump 2	Leq,D	99.0	3	272.84	-59.7	5.2	-24.5	-1.8		0.0	1.0	0.0	0.0	19.2
Tank Farm Pump 3	Leq,D	99.0	3	267.05	-59.5	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.3
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	718.93	-68.1	5.2	-15.7	-2.5	-0.24	0.0	0.0	-11.8	0.0	19.2
XF-1502 Splitter Area 1	Leq,D	104.5		553.34	-65.9	4.2	-18.7	-1.8	-0.08	-2.6	0.0	0.0	0.0	19.7
XF-1502 Splitter Area 2	Leq,D	104.5		553.56	-65.9	4.2	-18.5	-1.8	-0.06	-2.6	0.0	0.0	0.0	19.9
XF-1504 Splitter Area 1	Leq,D	104.5		548.94	-65.8	4.2	-18.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	19.8
XF-1504 Splitter Area 2	Leq,D	104.5		549.16	-65.8	4.2	-18.5	-1.8	-0.02	-2.6	0.0	0.0	0.0	20.0
XF 251, 250, 271, 270	Leq,D	101.1	128	425.38	-63.6	4.0	-14.6	-0.6		-1.5	0.0	0.0	0.0	24.8
XF 260, 261A, 261 B	Leq,D	99.9	97	474.18	-64.5	4.2	-7.5	-1.2	0.00	-2.4	0.0	0.0	0.0	28.5
XF 304, XF 321	Leq,D	110.5	56	618.60	-66.8	4.4	-16.5	-0.9	-0.04	-1.4	0.0	0.0	0.0	29.2
XF 313, XF 314	Leq,D	113.0	18	619.23	-66.8	4.7	-17.7	-1.3		-2.4	0.0	0.0	0.0	29.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
XF 335-1, XF 335-2	Leq,D	113.4	54	618.53	-66.8	4.4	-15.8	-1.1	-0.05	-1.5	0.0	0.0	0.0	32.4
XF 353A/B	Leq,D	95.4	35	372.42	-62.4	3.8	-14.9	-0.6	-0.01	-1.6	0.0	0.0	0.0	19.7
XF 353A/B	Leq,D	95.4	35	372.16	-62.4	3.8	-15.4	-0.6	0.00	-1.5	0.0	0.0	0.0	19.3
XF 354A/B	Leq,D	95.4	35	409.45	-63.2	4.0	-15.2	-0.6	0.00	-1.5	0.0	0.0	0.0	18.8
XF 503	Leq,D	113.0	21	602.67	-66.6	4.7	-23.6	-2.8	-0.32	-2.6	0.0	0.0	0.0	21.8
XF - 1601	Leq,D	96.6		535.16	-65.6	3.3	-17.0	-0.8		-1.0	0.0	0.0	0.0	15.5
XF - 1602	Leq,D	96.6		529.25	-65.5	3.2	-17.1	-0.8		-1.0	0.0	0.0	0.0	15.4
XF Module 1510	Leq,D	108.3		559.60	-65.9	4.4	-24.1	-2.6	-0.09	-2.8	0.0	0.0	0.0	17.1
XF Module 1519	Leq,D	109.0		559.27	-65.9	4.4	-18.7	-1.8	-0.22	-2.6	0.0	0.0	0.0	24.1
xxxx xxxx xxxx xxxx	Leq,D		228								8.6			31.5
xxxx xxxx xxxx xxxx	Leq,D		520								5.6			59.0
xxxx xxxx xxxx xxxx	Leq,D		1341								9.8			48.3
xxxx xxxx xxxx xxxx	Leq,D		450								18.1			28.0
Receiver E-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 56.8 dB(A) Ld 7-19 dB(A) Leq,N 57.5 dB(A) Le 19-22 dB(A) CNEL 63.9 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	395.74	-62.9	5.2	-24.3	-2.6		0.0	1.9	0.0	0.0	21.6
18-1855 A/B	Leq,D	98.8		404.04	-63.1	5.5	-21.3	-1.2		0.0	0.0	0.0	0.0	18.7
18-1856 A/B	Leq,D	98.8		397.10	-63.0	5.5	-21.4	-1.2		0.0	0.0	0.0	0.0	18.7
18-1857 A/B	Leq,D	98.8		410.74	-63.3	5.5	-21.2	-1.3		0.0	0.0	0.0	0.0	18.6
18-1858 A/B	Leq,D	98.8		415.41	-63.4	5.4	-21.7	-1.3		0.0	0.0	0.0	0.0	17.8
18-PK 1802 Air Compressor Package	Leq,D	103.1		392.03	-62.9	5.7	-19.0	-0.6		0.0	0.0	0.0	0.0	26.3
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	539.24	-65.6	5.5	-19.6	-1.3	-0.14	0.0	0.0	-2.7	0.0	25.1
Air Compressor C 1	Leq,D	110.0	5	606.76	-66.7	5.7	-22.2	-1.4		0.0	7.3	0.0	0.0	32.9
Air Compressor Pump	Leq,D	100.3		479.86	-64.6	5.5	-23.2	-3.0		0.0	0.0	0.0	0.0	15.0
Blower F 401	Leq,D	113.0		592.32	-66.4	5.5	-18.9	-0.7		0.0	0.0	0.0	0.0	32.4
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	378.16	-62.5	5.3	-20.9	-0.8	-0.40	0.0	0.2	0.0	0.0	19.3
Boiler Feed Water Pump A	Leq,D	97.1	3	394.08	-62.9	5.4	-17.2	-1.2		0.0	0.1	0.0	0.0	21.3
Boiler Feed Water Pump B	Leq,D	97.1	3	394.30	-62.9	5.4	-17.2	-1.2		0.0	0.1	0.0	0.0	21.4
C370 A Motor	Leq,D	103.6	3	474.26	-64.5	5.1	-18.0	-1.3		0.0	0.1	0.0	0.0	25.0
C370 B Motor	Leq,D	108.6	3	463.75	-64.3	5.1	-19.4	-1.3		0.0	0.0	0.0	0.0	28.6
C370A	Leq,D	103.8	5	473.77	-64.5	5.1	-16.3	-1.3		0.0	0.0	0.0	0.0	26.9
C370B	Leq,D	103.8	5	463.25	-64.3	5.1	-16.3	-1.2		0.0	0.0	0.0	0.0	27.0
C-270 A	Leq,D	106.3	6	379.83	-62.6	5.0	-21.8	-1.3	-1.06	0.0	0.1	0.0	0.0	24.6
C-270 B	Leq,D	106.3	6	384.49	-62.7	5.0	-21.4	-1.3	-1.10	0.0	0.1	0.0	0.0	24.9
C-270 C	Leq,D	106.3	6	389.03	-62.8	5.0	-21.3	-1.3	-1.08	0.0	0.3	0.0	0.0	25.1
C-301 Compressor	Leq,D	106.8	3	356.68	-62.0	4.9	-22.3	-1.3	-0.35	0.0	0.0	0.0	0.0	25.7
C-301 Motor	Leq,D	106.8	4	360.27	-62.1	4.9	-23.3	-2.3	-0.42	0.0	0.0	0.0	0.0	23.6
C-351 Compressor	Leq,D	106.8	4	359.73	-62.1	4.9	-21.7	-1.3	-0.85	0.0	0.0	0.0	0.0	25.8
C-351 Motor	Leq,D	106.8	5	361.48	-62.2	4.7	-22.5	-2.0	-1.00	0.0	0.0	0.0	0.0	23.8
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	554.62	-65.9	5.6	-17.1	-0.7	-0.25	0.0	0.0	-33.5	0.0	22.8
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	620.63	-66.8	5.4	-22.1	-1.5	-0.58	-0.7	0.0	0.0	0.0	18.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	616.66	-66.8	5.4	-19.9	-1.4	-0.72	0.0	0.0	0.0	0.0	17.1
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	628.26	-67.0	5.4	-23.4	-1.7	-0.34	-0.2	0.0	0.0	0.0	19.2
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	630.42	-67.0	5.4	-19.5	-1.1	-0.72	0.3	0.0	0.0	0.0	28.1
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	618.60	-66.8	5.4	-18.5	-1.1	-0.71	0.5	0.0	0.0	0.0	22.6
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	640.19	-67.1	5.4	-23.6	-2.1	-0.53	-7.8	0.0	0.0	0.0	4.6
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	547.51	-65.8	5.3	-22.5	-1.6		-0.8	0.3	0.0	0.0	12.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	559.92	-66.0	5.3	-23.2	-1.8		-7.8	0.0	0.0	0.0	4.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	522.78	-65.4	5.1	-18.4	-1.1		-0.7	0.0	0.0	0.0	20.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	540.79	-65.7	5.2	-23.5	-1.9		-7.8	3.7	0.0	0.0	10.7
Cooling Tower M 512	Leq,D	95.7		553.75	-65.9	5.6	-20.5	-1.9		0.0	0.0	0.0	0.0	13.0
Cooling Tower M 513	Leq,D	95.7		555.19	-65.9	5.6	-20.4	-1.9		0.0	0.0	0.0	0.0	13.0
Cooling Tower M 514	Leq,D	95.7		552.24	-65.8	5.6	-20.5	-1.9		0.0	0.0	0.0	0.0	13.1
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	401.54	-63.1	4.1	-15.8	-0.6		-1.5	0.0	0.0	0.0	19.0
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	408.38	-63.2	5.1	-9.3	-0.1		0.0	0.0	0.0	0.0	27.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	409.87	-63.2	5.2	-15.1	-0.1		0.0	0.0	0.0	0.0	19.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	409.68	-63.2	4.7	-6.5	-0.2		0.0	0.0	0.0	0.0	28.3
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	409.49	-63.2	5.1	-7.5	-0.1		0.0	0.0	0.0	0.0	27.4
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	410.97	-63.3	5.1	-15.3	-0.1		0.0	0.0	0.0	0.0	21.8
FD Motor	Leq,D	103.3	2	407.21	-63.2	5.3	-23.4	-2.5		0.0	3.2	0.0	0.0	22.7
Feed Compressor -B Motor	Leq,D	103.8	5	432.97	-63.7	5.0	-21.1	-2.0		0.0	0.0	0.0	0.0	21.9
Feed Compressor-A Compressor	Leq,D	104.0	5	446.56	-64.0	5.1	-16.6	-1.2		0.0	0.1	0.0	0.0	27.4
Feed Compressor-A Motor	Leq,D	103.8	6	446.96	-64.0	5.0	-20.7	-2.0		0.0	0.1	0.0	0.0	22.2
Feed Compressor-B Compressor	Leq,D	104.0	7	432.41	-63.7	5.1	-17.5	-1.2		0.0	0.0	0.0	0.0	26.7
H2S Compressor 18-C-271	Leq,D	105.3	6	602.64	-66.6	5.5	-23.8	-2.5	-0.22	0.0	0.0	0.0	0.0	17.7
Heater # 5-Heater	Leq,D	91.1	13	377.80	-62.5	5.3	-23.3	-1.1	-0.60	0.0	2.1	0.0	0.0	13.9
Heater # 5-Heater	Leq,D	91.1	13	382.22	-62.6	5.3	-23.6	-1.2	-0.71	0.0	1.8	0.0	0.0	13.1
Heater # 5-Heater	Leq,D	91.1	13	373.51	-62.4	5.3	-23.3	-1.1	-0.41	0.0	1.4	0.0	0.0	13.6
Hydro Heater H-402	Leq,D	98.1		580.75	-66.3	5.6	-23.5	-1.5		0.0	0.0	0.0	0.0	12.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	394.53	-62.9	5.3	-23.2	-0.1		0.0	0.3	0.0	0.0	6.3
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	394.34	-62.9	5.2	-22.9	-0.1		0.0	0.4	0.0	0.0	7.1
ID Fan-ID Fan - North	Leq,D	92.2	8	395.96	-62.9	5.2	-23.1	-0.1		0.0	0.3	0.0	0.0	11.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	393.35	-62.9	5.2	-23.3	-0.1		0.0	0.3	0.0	0.0	10.6
ID Fan-ID Fan - South	Leq,D	92.3	9	395.75	-62.9	5.2	-22.7	-0.1		0.0	0.5	0.0	0.0	12.3
ID Fan-ID Fan - South 2	Leq,D	91.4	7	393.23	-62.9	5.2	-23.0	-0.1		0.0	0.5	0.0	0.0	11.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	395.15	-62.9	4.9	-22.6	-0.1		0.0	0.5	0.0	0.0	13.7
Motor & Pump P 56A/B	Leq,D	93.7		589.13	-66.4	5.6	-22.4	-2.5	-0.14	0.0	0.0	0.0	0.0	7.8
Motor & Pump P 120/121	Leq,D	96.2	2	604.90	-66.6	5.7	-9.7	-1.9	-0.53	0.0	0.0	0.0	0.0	23.1
Motor & Pump P 211/212	Leq,D	93.7		608.27	-66.7	5.7	-20.2	-2.2	-0.57	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 215/214	Leq,D	94.6		608.59	-66.7	5.7	-20.2	-2.2	-0.58	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 216	Leq,D	98.3		614.91	-66.8	5.6	-20.1	-2.3	-0.72	0.0	0.0	0.0	0.0	14.1
Motor & Pump P 217/218	Leq,D	93.7		608.51	-66.7	5.8	-20.3	-2.3	-0.58	0.0	0.0	0.0	0.0	9.6
Motor & Pump P 300	Leq,D	97.1	2	616.96	-66.8	5.7	-15.5	-1.8	-0.53	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 301	Leq,D	102.1	2	616.79	-66.8	5.7	-9.5	-2.0	-0.53	0.0	0.0	0.0	0.0	29.0
Motor & Pump P 302	Leq,D	97.1	2	617.14	-66.8	5.7	-9.1	-2.0	-0.53	0.0	0.0	0.0	0.0	24.4
Motor & Pump P 303	Leq,D	97.1	2	617.40	-66.8	5.7	-9.1	-2.0	-0.50	0.0	0.0	0.0	0.0	24.4
Motor & Pump P 305	Leq,D	97.5	2	617.56	-66.8	5.7	-9.2	-2.0	-0.22	0.0	0.0	0.0	0.0	25.0
Motor & Pump P 306	Leq,D	112.6	4	618.51	-66.8	5.6	-22.0	-1.9		0.0	0.2	0.0	0.0	27.7
Motor & Pump P 307	Leq,D	102.1	2	616.33	-66.8	5.7	-21.0	-1.8	-0.53	0.0	0.0	0.0	0.0	17.7
Motor & Pump P 309	Leq,D	97.5	2	617.72	-66.8	5.7	-22.3	-1.9	-0.23	0.0	0.0	0.0	0.0	12.0
Motor & Pump P 312	Leq,D	101.5	2	614.69	-66.8	5.7	-24.0	-2.2	-0.37	0.0	0.0	0.0	0.0	13.9
Motor & Pump P 313	Leq,D	101.5	2	614.59	-66.8	5.7	-23.1	-2.0	-0.37	0.0	0.0	0.0	0.0	15.0
Motor & Pump P 315	Leq,D	102.9	2	614.54	-66.8	5.7	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	15.0
Motor & Pump P 316	Leq,D	102.9	2	614.46	-66.8	5.7	-24.7	-2.5		0.0	0.0	0.0	0.0	14.6
Motor & Pump P 317	Leq,D	102.9	2	614.29	-66.8	5.7	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	15.0
Motor & Pump P 318	Leq,D	100.2	1	614.13	-66.8	5.8	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 319	Leq,D	100.2	1	614.20	-66.8	5.8	-23.2	-2.0	-0.39	0.0	0.0	0.0	0.0	13.7
Motor & Pump P 327	Leq,D	111.2	3	620.19	-66.8	5.7	-23.9	-3.2		0.0	0.4	0.0	0.0	23.4
Motor & Pump P 328	Leq,D	109.9	5	617.77	-66.8	5.6	-21.8	-1.8	-0.18	0.0	0.0	0.0	0.0	24.9
Motor & Pump P 329	Leq,D	110.2	5	618.10	-66.8	5.6	-23.2	-2.0		0.0	0.0	0.0	0.0	23.7
Motor & Pump P 451	Leq,D	93.7		579.62	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4
Motor & Pump P 453	Leq,D	93.7		577.03	-66.2	5.6	-18.2	-2.1		0.0	0.0	0.0	0.0	12.7
Motor & Pump P 454	Leq,D	93.7		581.10	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4
Motor & Pump P 457	Leq,D	93.7		577.08	-66.2	5.6	-18.2	-2.1		0.0	0.0	0.0	0.0	12.7
Motor & Pump P 458	Leq,D	93.7		578.47	-66.2	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		581.09	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		565.72	-66.0	5.6	-24.8	-3.7		0.0	0.0	0.0	0.0	7.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		565.79	-66.0	5.6	-24.6	-3.5	-0.30	0.0	0.0	0.0	0.0	7.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		559.16	-65.9	5.6	-23.2	-2.6	-0.20	0.0	9.0	0.0	0.0	18.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		559.28	-65.9	5.6	-24.1	-3.1	-0.21	0.0	10.2	0.0	0.0	17.9
Motor & Pump P 1601 A	Leq,D	96.3	2	537.47	-65.6	5.5	-24.7	-3.5		0.0	0.0	0.0	0.0	8.0
Motor & Pump P 1601 B	Leq,D	96.3	2	535.92	-65.6	5.5	-24.7	-3.5		0.0	0.0	0.0	0.0	8.0
Motor & Pump P 1602 A	Leq,D	96.3	2	534.74	-65.6	5.5	-24.7	-3.5		0.0	0.0	0.0	0.0	8.0
Motor & Pump P 1602 B	Leq,D	96.5	2	533.24	-65.5	5.5	-24.7	-3.5		0.0	0.3	0.0	0.0	8.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	556.43	-65.9	5.7	-24.7	-3.5	-0.17	0.0	0.0	0.0	0.0	8.0
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	556.72	-65.9	5.6	-24.8	-3.7	-0.24	0.0	0.7	0.0	0.0	8.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	556.84	-65.9	5.6	-24.6	-3.4	-0.17	0.0	0.0	0.0	0.0	8.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	565.28	-66.0	5.6	-24.6	-3.5	-0.30	0.0	0.0	0.0	0.0	7.8
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	565.36	-66.0	5.6	-24.0	-3.1	-0.29	0.0	0.0	0.0	0.0	8.9
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	550.35	-65.8	5.7	-24.7	-3.5	-0.02	0.0	0.0	0.0	0.0	7.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	552.65	-65.8	5.7	-24.7	-3.5	-0.07	0.0	0.0	0.0	0.0	7.8
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	556.66	-65.9	5.6	-24.7	-3.6	-0.16	0.0	0.0	0.0	0.0	7.6
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	554.88	-65.9	5.6	-24.7	-3.5	-0.12	0.0	0.0	0.0	0.0	7.7
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	581.29	-66.3	5.5	-20.0	-1.6		0.0	0.1	0.0	0.0	21.8
P-2 A/B	Leq,D	98.5		288.55	-60.2	5.6	-24.0	-1.2		0.0	0.0	0.0	0.0	18.7
P-50 A/B	Leq,D	98.1		309.22	-60.8	5.6	-24.4	-1.3	-0.10	0.0	0.0	0.0	0.0	17.1
P-51 A/B	Leq,D	98.1		311.17	-60.9	5.6	-24.4	-1.3	-0.10	0.0	0.0	0.0	0.0	17.1
P-060 A/B	Leq,D	98.1		304.82	-60.7	5.6	-22.1	-1.0	-0.09	0.0	0.1	0.0	0.0	19.8
P-63	Leq,D	98.5		319.38	-61.1	5.6	-24.3	-1.4		0.0	0.0	0.0	0.0	17.4
P-70 A/B	Leq,D	98.1		306.77	-60.7	5.6	-22.8	-1.1	-0.09	0.0	0.1	0.0	0.0	19.1
P-73 A/B	Leq,D	98.5		292.26	-60.3	5.6	-24.0	-1.2		0.0	0.1	0.0	0.0	18.7
P-251 A/B	Leq,D	98.2		429.20	-63.6	5.7	-22.2	-1.4	-0.76	0.0	0.0	0.0	0.0	16.0
P-252 A/B	Leq,D	98.2		422.89	-63.5	5.7	-21.8	-1.3	-0.67	0.0	0.0	0.0	0.0	16.6
P-253	Leq,D	98.2		415.21	-63.4	5.7	-21.8	-1.3	-0.49	0.0	0.0	0.0	0.0	17.0
P-254 A/B	Leq,D	98.2		417.92	-63.4	5.7	-22.2	-1.3	-0.53	0.0	0.0	0.0	0.0	16.5
P-255 A/B	Leq,D	98.2		421.33	-63.5	5.7	-22.1	-1.4	-0.57	0.0	0.0	0.0	0.0	16.4
P-255 A/B	Leq,D	98.2		436.36	-63.8	5.7	-21.9	-1.4	-0.94	0.0	0.0	0.0	0.0	15.9
P-256 A/B	Leq,D	98.2		425.76	-63.6	5.7	-22.2	-1.4	-0.68	0.0	0.0	0.0	0.0	16.0
P-259 A/B	Leq,D	98.2		432.67	-63.7	5.7	-22.1	-1.4	-0.85	0.0	0.0	0.0	0.0	15.9
P-260	Leq,D	99.1		442.31	-63.9	5.7	-21.6	-1.4	-0.85	0.0	0.0	0.0	0.0	17.1
P-261 A/B	Leq,D	98.0		466.18	-64.4	5.7	-20.8	-1.4	-0.91	0.0	0.0	0.0	0.0	16.3
P-262 A/B	Leq,D	99.1		450.88	-64.1	5.7	-21.4	-1.4	-0.86	0.0	0.0	0.0	0.0	17.1
P-263 A/B	Leq,D	99.4		446.74	-64.0	5.7	-21.5	-1.4	-0.84	0.0	0.0	0.0	0.0	17.4
P-270 A/B	Leq,D	98.5		375.46	-62.5	5.7	-22.9	-1.3	-0.68	0.0	0.0	0.0	0.0	16.8
P-271 A/B	Leq,D	98.2		408.21	-63.2	5.7	-22.0	-1.3	-0.49	0.0	0.0	0.0	0.0	16.9
P-272 A/B	Leq,D	98.2		412.92	-63.3	5.7	-21.9	-1.3	-0.51	0.0	0.0	0.0	0.0	16.8
P-273 A/B	Leq,D	98.5		378.94	-62.6	5.7	-22.8	-1.3	-0.70	0.0	0.0	0.0	0.0	16.8
P-275 A/B/C	Leq,D	98.2		403.83	-63.1	5.7	-22.3	-1.3	-0.22	0.0	0.0	0.0	0.0	16.9
P-305	Leq,D	99.3		384.44	-62.7	5.7	-23.3	-1.4	-0.97	0.0	0.0	0.0	0.0	16.6
P-306	Leq,D	100.8		375.67	-62.5	5.7	-22.5	-1.3	-1.32	0.0	0.0	0.0	0.0	18.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-309	Leq,D	99.3		382.26	-62.6	5.7	-23.4	-1.4	-0.93	0.0	0.0	0.0	0.0	16.6
P-328	Leq,D	100.8		370.56	-62.4	5.7	-22.9	-1.3	-1.18	0.0	0.0	0.0	0.0	18.8
P-329	Leq,D	100.8		372.98	-62.4	5.7	-22.6	-1.3	-1.25	0.0	0.0	0.0	0.0	19.0
P-353	Leq,D	98.5		376.34	-62.5	5.4	-21.9	-1.2	-1.49	0.0	0.0	0.0	0.0	16.9
P-358 A/B	Leq,D	99.4		348.28	-61.8	5.7	-22.3	-1.2	-0.97	0.0	0.0	0.0	0.0	18.8
P-359 A/B	Leq,D	99.4		350.05	-61.9	5.7	-23.2	-1.3	-0.97	0.0	2.1	0.0	0.0	19.8
P-360 A/B	Leq,D	99.4		353.76	-62.0	5.7	-23.6	-1.4	-0.99	0.0	0.2	0.0	0.0	17.4
P-361A	Leq,D	98.1		297.28	-60.5	5.3	-24.2	-1.3	-0.11	0.0	0.0	0.0	0.0	17.4
P-371 A/B	Leq,D	98.0		517.50	-65.3	5.6	-17.5	-1.5		0.0	0.0	0.0	0.0	19.4
P-373 A/B	Leq,D	98.0		498.17	-64.9	5.6	-17.6	-1.4		0.0	0.0	0.0	0.0	19.6
P-374 A/B	Leq,D	98.0		502.01	-65.0	5.6	-17.6	-1.4		0.0	0.0	0.0	0.0	19.5
P-375 A/B	Leq,D	98.0		510.74	-65.2	5.6	-17.5	-1.5		0.0	0.0	0.0	0.0	19.4
P-376	Leq,D	98.0		504.50	-65.0	5.6	-17.6	-1.5		0.0	0.0	0.0	0.0	19.5
P-376 A/B	Leq,D	98.0		494.02	-64.9	5.6	-17.7	-1.4		0.0	0.0	0.0	0.0	19.6
P-377	Leq,D	98.0		506.75	-65.1	5.6	-17.6	-1.5		0.0	0.0	0.0	0.0	19.5
P-1101 A	Leq,D	98.9		286.08	-60.1	5.3	-24.3	-1.3		0.0	0.0	0.0	0.0	18.5
P-1103	Leq,D	98.9		287.33	-60.2	5.3	-24.4	-1.3		0.0	0.0	0.0	0.0	18.3
P-1105 A/B/C	Leq,D	98.9		281.15	-60.0	5.3	-24.4	-1.3		0.0	0.2	0.0	0.0	18.7
P-1800	Leq,D	98.9		284.68	-60.1	5.6	-24.8	-1.3		0.0	2.4	0.0	0.0	20.7
P-1801	Leq,D	98.9		246.16	-58.8	5.5	-24.6	-1.1		0.0	1.6	0.0	0.0	21.5
P-1802	Leq,D	98.9		244.39	-58.8	5.5	-24.6	-1.1		0.0	2.1	0.0	0.0	22.0
P-1803	Leq,D	99.1		283.02	-60.0	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	18.7
P-1804	Leq,D	99.1		276.46	-59.8	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	19.0
P-1805	Leq,D	99.1		273.53	-59.7	5.6	-24.6	-1.3		0.0	0.3	0.0	0.0	19.3
P-1806	Leq,D	99.1		305.98	-60.7	5.6	-24.3	-1.3		0.0	0.0	0.0	0.0	18.4
P-1809 A	Leq,D	98.9		272.21	-59.7	5.6	-24.8	-1.3		0.0	1.9	0.0	0.0	20.5
P-1810 A/B/C	Leq,D	99.0		266.70	-59.5	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	19.1
P-1811 A/B	Leq,D	99.1		299.50	-60.5	5.6	-24.4	-1.3		0.0	0.0	0.0	0.0	18.4
P-1811 A/B	Leq,D	99.1		269.97	-59.6	5.6	-22.6	-0.9		0.0	0.0	0.0	0.0	21.5
P-1847 A/B	Leq,D	99.4		276.59	-59.8	5.6	-18.1	-0.8		0.0	0.0	0.0	0.0	26.2
P-1849 A/B	Leq,D	99.4		269.97	-59.6	5.6	-18.2	-0.8		0.0	0.0	0.0	0.0	26.4
P-1853	Leq,D	99.1		421.14	-63.5	5.7	-21.7	-1.3	-1.34	0.0	0.2	0.0	0.0	17.2
Piping Furnace Tanks	Leq,D	87.1	72	439.82	-63.9	4.4	-23.9	-6.0		0.0	0.6	0.0	0.0	-1.8
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	454.43	-64.1	4.6	-23.4	-5.6		0.0	0.1	0.0	0.0	9.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	483.78	-64.7	5.1	-25.0	-3.9		0.0	0.0	0.0	0.0	26.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	480.83	-64.6	5.1	-25.0	-9.9		0.0	0.0	0.0	0.0	20.8
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	189.91	-56.6	3.5	-20.7	-0.7		0.0	0.0	0.0	0.0	36.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	207.35	-57.3	3.5	-15.2	-0.7		0.0	0.1	0.0	0.0	41.6
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	237.50	-58.5	3.6	-23.3	-1.0		0.0	0.0	0.0	0.0	24.9
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	216.50	-57.7	3.5	-24.3	-1.0		0.0	0.4	0.0	0.0	32.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	240.57	-58.6	3.6	-24.3	-1.1		0.0	0.0	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	232.47	-58.3	3.6	-24.2	-1.0		0.0	0.3	0.0	0.0	24.1
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	243.48	-58.7	3.6	-24.3	-1.1		0.0	0.0	0.0	0.0	26.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	238.00	-58.5	3.5	-24.3	-1.1		0.0	0.4	0.0	0.0	26.2
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	213.41	-57.6	3.0	-18.6	-0.7		0.0	0.1	0.0	0.0	39.4
PSA Pipe 3" Lagging	Leq,D	80.6	11	466.08	-64.4	3.6	-24.8	-3.7		0.0	0.0	0.0	0.0	-8.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	485.96	-64.7	5.1	-25.0	-3.9		0.0	0.0	0.0	0.0	28.1
Reformer-Burner Reformer East	Leq,D	97.3	269	428.77	-63.6	3.5	-24.8	-2.5		0.0	9.0	0.0	0.0	21.9
Reformer-Burner Reformer North	Leq,D	95.9	192	438.09	-63.8	3.7	-24.8	-2.5		0.0	0.1	0.0	0.0	8.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer South	Leq,D	95.8	191	418.96	-63.4	3.6	-22.5	-1.8		0.0	0.3	0.0	0.0	14.9
Reformer-Burner Reformer West	Leq,D	97.3	268	428.14	-63.6	3.7	-20.1	-1.5		0.0	0.0	0.0	0.0	18.8
RFG A from battery to process	Leq,D	99.4	87	447.12	-64.0	4.5	-23.5	-5.7		0.0	0.1	0.0	0.0	10.8
RFG A from battery to process w NC	Leq,D	115.2	42	480.92	-64.6	5.1	-25.0	-10.0		0.0	0.1	0.0	0.0	20.8
Stack Noise	Leq,D	108.4		391.13	-62.8	3.0	-9.0	-0.7		-5.2	0.0	0.0	0.0	33.7
Steam Turbine-Facade 01	Leq,D	99.6	29	490.55	-64.8	5.4	-22.6	-3.4		0.0	1.5	0.0	0.0	15.7
Steam Turbine-Facade 02	Leq,D	96.2	13	486.60	-64.7	5.4	-22.6	-3.4		0.0	0.6	0.0	0.0	11.5
Steam Turbine-Facade 03	Leq,D	99.6	29	490.61	-64.8	5.4	-24.3	-5.2		0.0	1.9	0.0	0.0	12.6
Steam Turbine-Facade 04	Leq,D	96.2	13	494.62	-64.9	5.4	-24.4	-5.4		0.0	3.5	0.0	0.0	10.4
Steam Turbine-Roof 01	Leq,D	99.7	30	490.61	-64.8	5.1	-22.4	-3.3		0.0	1.5	0.0	0.0	15.9
Tank Farm Pump 1	Leq,D	99.0	3	287.91	-60.2	5.3	-24.0	-1.7		0.0	0.0	0.0	0.0	18.3
Tank Farm Pump 2	Leq,D	99.0	3	266.42	-59.5	5.2	-24.4	-1.8		0.0	1.2	0.0	0.0	19.8
Tank Farm Pump 3	Leq,D	99.0	3	260.42	-59.3	5.2	-24.5	-1.8		0.0	2.6	0.0	0.0	21.3
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	712.94	-68.1	5.2	-14.0	-3.3	-0.03	0.0	0.0	-11.8	0.0	20.3
XF-1502 Splitter Area 1	Leq,D	104.5		554.70	-65.9	4.2	-23.9	-2.4	-0.02	-2.7	0.0	0.0	0.0	13.8
XF-1502 Splitter Area 2	Leq,D	104.5		554.50	-65.9	4.2	-24.5	-2.8	-0.01	-3.3	0.3	0.0	0.0	12.5
XF-1504 Splitter Area 1	Leq,D	104.5		550.29	-65.8	4.2	-24.2	-2.6	-0.02	-2.9	0.0	0.0	0.0	13.2
XF-1504 Splitter Area 2	Leq,D	104.5		550.10	-65.8	4.2	-24.6	-2.9	0.00	-3.4	0.0	0.0	0.0	12.0
XF 251, 250, 271, 270	Leq,D	101.1	128	406.59	-63.2	3.9	-17.4	-0.6	0.00	-1.5	0.0	0.0	0.0	22.4
XF 260, 261A, 261 B	Leq,D	99.9	97	457.41	-64.2	4.2	-16.7	-0.7	0.00	-1.4	0.0	0.0	0.0	21.0
XF 304, XF 321	Leq,D	110.5	56	622.73	-66.9	4.4	-12.3	-1.1	-0.05	-1.8	0.0	0.0	0.0	32.7
XF 313, XF 314	Leq,D	113.0	18	626.21	-66.9	4.7	-15.9	-1.4		-2.5	0.0	0.0	0.0	31.0
XF 335-1, XF 335-2	Leq,D	113.4	54	623.88	-66.9	4.4	-14.5	-1.4	-0.05	-1.8	0.0	0.0	0.0	33.2
XF 353A/B	Leq,D	95.4	35	345.11	-61.8	3.6	-17.2	-0.5	0.00	-1.5	0.0	0.0	0.0	18.0
XF 353A/B	Leq,D	95.4	35	348.46	-61.8	3.6	-18.0	-0.5	0.00	-1.5	0.0	0.0	0.0	17.2
XF 354A/B	Leq,D	95.4	35	381.29	-62.6	3.8	-16.9	-0.6	0.00	-1.4	0.0	0.0	0.0	17.7
XF 503	Leq,D	113.0	21	601.74	-66.6	4.7	-19.4	-1.6	-0.39	-2.6	0.0	0.0	0.0	27.1
XF - 1601	Leq,D	96.6		535.37	-65.6	3.3	-21.3	-0.9		-1.0	0.0	0.0	0.0	11.1
XF - 1602	Leq,D	96.6		529.45	-65.5	3.2	-21.5	-0.9		-1.0	0.0	0.0	0.0	11.0
XF Module 1510	Leq,D	108.3		560.14	-66.0	4.4	-24.1	-2.6	-0.09	-2.8	0.5	0.0	0.0	17.6
XF Module 1519	Leq,D	109.0		560.38	-66.0	4.4	-24.5	-2.8	-0.05	-3.2	0.0	0.0	0.0	16.9
xxxx xxxx xxxx xxxx	Leq,D		228								14.1			23.1
xxxx xxxx xxxx xxxx	Leq,D		520								5.9			55.3
xxxx xxxx xxxx xxxx	Leq,D		1341								12.9			48.6
xxxx xxxx xxxx xxxx	Leq,D		450								18.4			21.4
Receiver E-4 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 58.0	dB(A)	Ld 7-19	dB(A)	Leq,N 58.4	dB(A)	Le 19-22	dB(A)	CNEL 64.9	dB(A)	Lmax day hr	dB(A) Ld
ID Fan Motor	Leq,D	104.4	2	404.84	-63.1	5.3	-24.6	-2.8		0.0	2.2	0.0	0.0	21.2
18-1855 A/B	Leq,D	98.8		400.92	-63.1	5.5	-18.6	-1.2		0.0	0.0	0.0	0.0	21.5
18-1856 A/B	Leq,D	98.8		393.89	-62.9	5.5	-19.1	-1.2		0.0	0.0	0.0	0.0	21.1
18-1857 A/B	Leq,D	98.8		407.72	-63.2	5.5	-18.4	-1.2		0.0	0.0	0.0	0.0	21.5
18-1858 A/B	Leq,D	98.8		412.44	-63.3	5.4	-18.1	-1.2		0.0	0.0	0.0	0.0	21.6
18-PK 1802 Air Compressor Package	Leq,D	103.1		386.94	-62.7	5.7	-16.6	-0.6		0.0	0.0	0.0	0.0	28.9
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	530.68	-65.5	5.5	-16.5	-1.2	-0.12	0.0	0.1	-2.7	0.0	28.6
Air Compressor C 1	Leq,D	110.0	5	617.56	-66.8	5.7	-22.8	-1.5		0.0	4.4	0.0	0.0	29.0
Air Compressor Pump	Leq,D	100.3		476.31	-64.5	5.5	-22.4	-2.7		0.0	0.0	0.0	0.0	16.2
Blower F 401	Leq,D	113.0		592.81	-66.5	5.5	-18.1	-0.7		0.0	0.0	0.0	0.0	33.3
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	354.45	-62.0	5.3	-20.6	-0.8	-0.22	0.0	0.0	0.0	0.0	20.3
Boiler Feed Water Pump A	Leq,D	97.1	3	394.35	-62.9	5.4	-20.5	-1.3		0.0	0.2	0.0	0.0	18.0
Boiler Feed Water Pump B	Leq,D	97.1	3	394.08	-62.9	5.4	-20.2	-1.2		0.0	0.2	0.0	0.0	18.4
C370 A Motor	Leq,D	103.6	3	475.95	-64.5	5.1	-19.6	-1.4		0.0	0.1	0.0	0.0	23.3
C370 B Motor	Leq,D	108.6	3	465.40	-64.3	5.1	-21.4	-1.5		0.0	0.0	0.0	0.0	26.4
C370A	Leq,D	103.8	5	475.99	-64.5	5.1	-19.9	-1.4		0.0	0.0	0.0	0.0	23.1
C370B	Leq,D	103.8	5	465.44	-64.3	5.1	-20.0	-1.4		0.0	0.0	0.0	0.0	23.2
C-270 A	Leq,D	106.3	6	365.63	-62.3	4.9	-20.0	-1.2	-1.03	0.0	0.0	0.0	0.0	26.8
C-270 B	Leq,D	106.3	6	370.47	-62.4	5.0	-19.5	-1.1	-1.08	0.0	0.0	0.0	0.0	27.2
C-270 C	Leq,D	106.3	6	375.21	-62.5	5.0	-18.9	-1.1	-1.06	0.0	0.1	0.0	0.0	27.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-301 Compressor	Leq,D	106.8	3	345.48	-61.8	4.9	-20.2	-1.1	-0.66	0.0	0.0	0.0	0.0	28.0
C-301 Motor	Leq,D	106.8	4	349.21	-61.9	4.9	-21.5	-1.8	-0.79	0.0	0.0	0.0	0.0	25.7
C-351 Compressor	Leq,D	106.8	4	345.67	-61.8	4.9	-19.5	-1.1	-0.81	0.0	0.0	0.0	0.0	28.6
C-351 Motor	Leq,D	106.8	5	346.71	-61.8	4.6	-20.8	-1.7	-0.95	0.0	0.0	0.0	0.0	26.2
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	546.33	-65.7	5.6	-14.2	-0.7	-0.17	0.0	0.1	-33.5	0.0	26.1
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	624.91	-66.9	5.4	-20.9	-1.3	-0.67	-0.5	0.0	0.0	0.0	19.8
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	621.42	-66.9	5.4	-20.0	-1.5	-0.70	0.0	0.0	0.0	0.0	16.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	633.29	-67.0	5.4	-22.9	-1.6	-0.71	-2.0	0.0	0.0	0.0	17.6
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	634.34	-67.0	5.4	-21.2	-1.3	-0.72	2.6	0.0	0.0	0.0	28.4
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	623.10	-66.9	5.4	-24.6	-2.1	-0.11	2.9	1.7	0.0	0.0	19.9
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	644.61	-67.2	5.4	-23.6	-2.2	-0.57	-7.8	0.0	0.0	0.0	4.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	552.51	-65.8	5.3	-22.8	-1.7		-0.3	0.0	0.0	0.0	12.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	564.83	-66.0	5.3	-23.4	-1.9		-7.8	0.0	0.0	0.0	4.1
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	527.84	-65.4	5.1	-18.9	-1.1		-0.2	0.0	0.0	0.0	20.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	545.72	-65.7	5.2	-23.6	-1.9		-7.8	3.3	0.0	0.0	10.0
Cooling Tower M 512	Leq,D	95.7		558.05	-65.9	5.6	-20.9	-2.0		0.0	0.0	0.0	0.0	12.5
Cooling Tower M 513	Leq,D	95.7		559.47	-65.9	5.6	-20.8	-2.0		0.0	0.0	0.0	0.0	12.5
Cooling Tower M 514	Leq,D	95.7		556.54	-65.9	5.6	-20.9	-1.9		0.0	0.0	0.0	0.0	12.5
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	405.47	-63.2	4.2	-17.9	-0.6		-1.4	0.0	0.0	0.0	16.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	418.29	-63.4	5.2	-15.2	-0.1		0.0	0.1	0.0	0.0	21.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	420.04	-63.5	5.2	-17.3	-0.1		0.0	0.0	0.0	0.0	17.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	419.57	-63.4	4.7	-14.2	-0.1		0.0	0.0	0.0	0.0	20.4
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	419.09	-63.4	5.1	-14.9	-0.1		0.0	0.3	0.0	0.0	20.2
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	420.83	-63.5	5.2	-17.3	-0.1		0.0	0.1	0.0	0.0	19.6
FD Motor	Leq,D	103.3	2	417.15	-63.4	5.3	-24.5	-3.1		0.0	2.8	0.0	0.0	20.3
Feed Compressor -B Motor	Leq,D	103.8	5	433.16	-63.7	5.0	-22.1	-2.1		0.0	0.0	0.0	0.0	20.9
Feed Compressor-A Compressor	Leq,D	104.0	5	447.53	-64.0	5.1	-20.3	-1.3		0.0	0.1	0.0	0.0	23.6
Feed Compressor-A Motor	Leq,D	103.8	6	447.27	-64.0	5.0	-19.7	-1.9		0.0	0.1	0.0	0.0	23.2
Feed Compressor-B Compressor	Leq,D	104.0	7	433.37	-63.7	5.1	-20.6	-1.3		0.0	0.0	0.0	0.0	23.5
H2S Compressor 18-C-271	Leq,D	105.3	6	610.26	-66.7	5.5	-23.8	-2.5	-0.24	0.0	0.0	0.0	0.0	17.6
Heater # 5-Heater	Leq,D	91.1	13	354.68	-62.0	5.3	-22.9	-1.0	-0.36	0.0	2.0	0.0	0.0	15.0
Heater # 5-Heater	Leq,D	91.1	13	359.41	-62.1	5.3	-23.2	-1.1	-0.47	0.0	0.9	0.0	0.0	13.4
Heater # 5-Heater	Leq,D	91.1	13	350.07	-61.9	5.3	-22.9	-1.0	-0.33	0.0	1.4	0.0	0.0	14.6
Hydro Heater H-402	Leq,D	98.1		584.91	-66.3	5.6	-23.6	-1.5		0.0	0.0	0.0	0.0	12.2
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	403.39	-63.1	5.3	-23.2	-0.1		0.0	0.5	0.0	0.0	6.3
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	402.87	-63.1	5.3	-17.8	-0.1		0.0	0.0	0.0	0.0	11.6
ID Fan-ID Fan - North	Leq,D	92.2	8	404.85	-63.1	5.3	-23.2	-0.1		0.0	0.4	0.0	0.0	11.5
ID Fan-ID Fan - North 2	Leq,D	91.4	7	402.17	-63.1	5.3	-23.4	-0.1		0.0	0.5	0.0	0.0	10.6
ID Fan-ID Fan - South	Leq,D	92.3	9	404.19	-63.1	5.3	-15.2	-0.1		0.0	0.0	0.0	0.0	19.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	401.84	-63.1	5.3	-23.1	-0.1		0.0	0.0	0.0	0.0	10.3
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	403.83	-63.1	4.9	-20.0	-0.1		0.0	0.9	0.0	0.0	16.6
Motor & Pump P 56A/B	Leq,D	93.7		594.75	-66.5	5.6	-22.9	-2.7	-0.14	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 120/121	Leq,D	96.2	2	614.55	-66.8	5.7	-23.4	-2.1	-0.54	0.0	0.0	0.0	0.0	9.1
Motor & Pump P 211/212	Leq,D	93.7		611.45	-66.7	5.7	-21.9	-2.4	-0.58	0.0	0.0	0.0	0.0	7.7
Motor & Pump P 215/214	Leq,D	94.6		612.24	-66.7	5.7	-20.2	-2.3	-0.58	0.0	0.0	0.0	0.0	10.5
Motor & Pump P 216	Leq,D	98.3		618.10	-66.8	5.6	-21.8	-2.4	-0.72	0.0	0.0	0.0	0.0	12.2
Motor & Pump P 217/218	Leq,D	93.7		611.86	-66.7	5.8	-20.2	-2.3	-0.58	0.0	0.0	0.0	0.0	9.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 300	Leq,D	97.1	2	626.65	-66.9	5.7	-23.3	-2.1	-0.34	0.0	0.0	0.0	0.0	10.1
Motor & Pump P 301	Leq,D	102.1	2	626.33	-66.9	5.7	-23.3	-2.1	-0.33	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 302	Leq,D	97.1	2	626.99	-66.9	5.7	-23.3	-2.1	-0.34	0.0	0.0	0.0	0.0	10.1
Motor & Pump P 303	Leq,D	97.1	2	627.38	-66.9	5.7	-23.7	-2.2	-0.32	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 305	Leq,D	97.5	2	627.67	-66.9	5.7	-24.0	-2.3	-0.32	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 306	Leq,D	112.6	4	629.43	-67.0	5.6	-22.7	-2.2		0.0	0.3	0.0	0.0	26.7
Motor & Pump P 307	Leq,D	102.1	2	625.44	-66.9	5.7	-24.6	-2.5	-0.20	0.0	0.0	0.0	0.0	13.6
Motor & Pump P 309	Leq,D	97.5	2	627.97	-67.0	5.7	-24.4	-2.4	-0.53	0.0	0.0	0.0	0.0	8.9
Motor & Pump P 312	Leq,D	101.5	2	621.82	-66.9	5.7	-21.8	-1.8	-0.54	0.0	0.0	0.0	0.0	16.2
Motor & Pump P 313	Leq,D	101.5	2	621.56	-66.9	5.7	-21.3	-1.8	-0.54	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 315	Leq,D	102.9	2	620.92	-66.9	5.7	-21.9	-1.9	-0.23	0.0	0.0	0.0	0.0	17.7
Motor & Pump P 316	Leq,D	102.9	2	620.66	-66.8	5.7	-21.7	-1.8	-0.23	0.0	0.0	0.0	0.0	18.0
Motor & Pump P 317	Leq,D	102.9	2	620.31	-66.8	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	17.2
Motor & Pump P 318	Leq,D	100.2	1	620.69	-66.8	5.8	-20.1	-1.8	-0.52	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 319	Leq,D	100.2	1	620.90	-66.9	5.8	-24.8	-2.6		0.0	0.0	0.0	0.0	11.8
Motor & Pump P 327	Leq,D	111.2	3	631.80	-67.0	5.7	-24.3	-3.4		0.0	0.3	0.0	0.0	22.5
Motor & Pump P 328	Leq,D	109.9	5	628.18	-67.0	5.6	-24.5	-2.4	-0.52	0.0	0.0	0.0	0.0	21.1
Motor & Pump P 329	Leq,D	110.2	5	628.77	-67.0	5.6	-23.8	-2.2	-0.13	0.0	0.0	0.0	0.0	22.6
Motor & Pump P 451	Leq,D	93.7		583.12	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 453	Leq,D	93.7		579.39	-66.3	5.6	-23.7	-2.9		0.0	0.0	0.0	0.0	6.5
Motor & Pump P 454	Leq,D	93.7		584.64	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 457	Leq,D	93.7		579.30	-66.3	5.6	-23.8	-2.9		0.0	0.0	0.0	0.0	6.3
Motor & Pump P 458	Leq,D	93.7		581.97	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 459	Leq,D	93.7		584.72	-66.3	5.6	-20.5	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		572.12	-66.1	5.6	-24.8	-3.8		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		572.35	-66.1	5.6	-24.8	-3.8		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		569.11	-66.1	5.6	-24.6	-3.5	-0.18	0.0	1.1	0.0	0.0	7.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		569.34	-66.1	5.6	-24.8	-3.7	-0.21	0.0	0.0	0.0	0.0	6.3
Motor & Pump P 1601 A	Leq,D	96.3	2	544.19	-65.7	5.5	-23.7	-2.8		0.0	0.0	0.0	0.0	9.5
Motor & Pump P 1601 B	Leq,D	96.3	2	542.65	-65.7	5.5	-23.8	-2.8		0.0	0.0	0.0	0.0	9.5
Motor & Pump P 1602 A	Leq,D	96.3	2	541.47	-65.7	5.5	-23.8	-2.8		0.0	0.0	0.0	0.0	9.5
Motor & Pump P 1602 B	Leq,D	96.5	2	539.98	-65.6	5.5	-23.8	-2.9		0.0	0.0	0.0	0.0	9.7
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	562.97	-66.0	5.7	-22.7	-2.5	-0.17	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	563.74	-66.0	5.6	-23.4	-2.7	-0.18	0.0	0.0	0.0	0.0	9.9
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	564.11	-66.0	5.7	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	572.00	-66.1	5.6	-22.6	-2.5	-0.30	0.0	0.0	0.0	0.0	10.8
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	572.25	-66.1	5.6	-23.2	-2.7	-0.30	0.0	0.0	0.0	0.0	10.0
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	558.21	-65.9	5.7	-24.7	-3.6	-0.02	0.0	0.0	0.0	0.0	7.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	560.48	-66.0	5.7	-24.7	-3.6	-0.07	0.0	0.0	0.0	0.0	7.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	564.44	-66.0	5.6	-24.7	-3.6	-0.17	0.0	0.0	0.0	0.0	7.5
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	562.67	-66.0	5.7	-24.7	-3.6	-0.12	0.0	0.0	0.0	0.0	7.5
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	592.55	-66.4	5.5	-20.6	-1.7		0.0	0.1	0.0	0.0	21.0
P-2 A/B	Leq,D	98.5		263.08	-59.4	5.6	-24.1	-1.2		0.0	0.0	0.0	0.0	19.4
P-50 A/B	Leq,D	98.1		290.34	-60.3	5.6	-24.4	-1.3	-0.10	0.0	0.0	0.0	0.0	17.7
P-51 A/B	Leq,D	98.1		291.61	-60.3	5.6	-23.2	-1.1	-0.09	0.0	0.0	0.0	0.0	19.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-060 A/B	Leq,D	98.1		287.69	-60.2	5.6	-22.6	-1.0	-0.09	0.0	0.0	0.0	0.0	19.8
P-63	Leq,D	98.5		295.12	-60.4	5.6	-23.6	-1.2		0.0	0.0	0.0	0.0	19.0
P-70 A/B	Leq,D	98.1		288.85	-60.2	5.6	-24.3	-1.2	-0.10	0.0	0.0	0.0	0.0	17.9
P-73 A/B	Leq,D	98.5		267.19	-59.5	5.6	-24.1	-1.2		0.0	0.0	0.0	0.0	19.3
P-251 A/B	Leq,D	98.2		419.52	-63.4	5.7	-18.9	-1.2	-1.41	0.0	2.0	0.0	0.0	20.9
P-252 A/B	Leq,D	98.2		414.52	-63.3	5.7	-19.4	-1.2	-0.66	0.0	1.4	0.0	0.0	20.6
P-253	Leq,D	98.2		406.66	-63.2	5.7	-20.0	-1.2	-0.48	0.0	1.5	0.0	0.0	20.5
P-254 A/B	Leq,D	98.2		407.94	-63.2	5.7	-18.6	-1.2	-1.32	0.0	1.8	0.0	0.0	21.3
P-255 A/B	Leq,D	98.2		411.45	-63.3	5.7	-18.5	-1.2	-1.34	0.0	1.8	0.0	0.0	21.3
P-255 A/B	Leq,D	98.2		426.90	-63.6	5.7	-18.8	-1.2	-1.44	0.0	2.0	0.0	0.0	20.8
P-256 A/B	Leq,D	98.2		416.00	-63.4	5.7	-19.2	-1.2	-1.38	0.0	2.1	0.0	0.0	20.8
P-259 A/B	Leq,D	98.2		423.10	-63.5	5.7	-18.7	-1.2	-1.43	0.0	1.9	0.0	0.0	20.9
P-260	Leq,D	99.1		434.43	-63.8	5.7	-19.1	-1.3	-1.11	0.0	1.1	0.0	0.0	20.7
P-261 A/B	Leq,D	98.0		458.79	-64.2	5.7	-17.5	-1.3	-1.67	0.0	0.6	0.0	0.0	19.7
P-262 A/B	Leq,D	99.1		443.19	-63.9	5.7	-18.9	-1.3	-1.32	0.0	1.1	0.0	0.0	20.6
P-263 A/B	Leq,D	99.4		438.98	-63.8	5.7	-19.0	-1.3	-1.22	0.0	1.1	0.0	0.0	20.9
P-270 A/B	Leq,D	98.5		364.41	-62.2	5.7	-21.7	-1.2	-1.25	0.0	0.0	0.0	0.0	17.8
P-271 A/B	Leq,D	98.2		397.94	-63.0	5.7	-19.5	-1.2	-1.25	0.0	2.0	0.0	0.0	21.0
P-272 A/B	Leq,D	98.2		402.79	-63.1	5.7	-19.4	-1.2	-1.28	0.0	2.0	0.0	0.0	20.9
P-273 A/B	Leq,D	98.5		368.01	-62.3	5.7	-20.3	-1.1	-1.28	0.0	0.0	0.0	0.0	19.1
P-275 A/B/C	Leq,D	98.2		395.01	-62.9	5.7	-20.3	-1.2	-0.21	0.0	1.4	0.0	0.0	20.7
P-305	Leq,D	99.3		364.73	-62.2	5.7	-21.9	-1.2	-1.48	0.0	3.1	0.0	0.0	21.2
P-306	Leq,D	100.8		355.38	-62.0	5.7	-22.1	-1.2	-1.24	0.0	0.0	0.0	0.0	19.9
P-309	Leq,D	99.3		362.42	-62.2	5.7	-22.0	-1.2	-1.42	0.0	0.0	0.0	0.0	18.2
P-328	Leq,D	100.8		349.92	-61.9	5.7	-22.1	-1.2	-1.11	0.0	0.0	0.0	0.0	20.2
P-329	Leq,D	100.8		352.53	-61.9	5.7	-22.1	-1.2	-1.17	0.0	0.0	0.0	0.0	20.1
P-353	Leq,D	98.5		358.38	-62.1	5.4	-20.9	-1.1	-0.83	0.0	0.0	0.0	0.0	18.9
P-358 A/B	Leq,D	99.4		332.82	-61.4	5.6	-20.7	-1.0	-0.93	0.0	0.0	0.0	0.0	20.9
P-359 A/B	Leq,D	99.4		333.86	-61.5	5.6	-20.7	-1.1	-0.93	0.0	0.0	0.0	0.0	20.8
P-360 A/B	Leq,D	99.4		336.20	-61.5	5.6	-22.1	-1.2	-0.94	0.0	0.0	0.0	0.0	19.3
P-361A	Leq,D	98.1		283.87	-60.1	5.3	-22.3	-1.0	-0.10	0.0	0.0	0.0	0.0	19.9
P-371 A/B	Leq,D	98.0		519.85	-65.3	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.2
P-373 A/B	Leq,D	98.0		500.68	-65.0	5.6	-20.0	-1.5		0.0	0.0	0.0	0.0	17.2
P-374 A/B	Leq,D	98.0		504.52	-65.0	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-375 A/B	Leq,D	98.0		513.25	-65.2	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-376	Leq,D	98.0		506.99	-65.1	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-376 A/B	Leq,D	98.0		496.56	-64.9	5.6	-20.2	-1.4		0.0	0.0	0.0	0.0	17.1
P-377	Leq,D	98.0		509.26	-65.1	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-1101 A	Leq,D	98.9		264.62	-59.4	5.2	-23.6	-1.1		0.0	0.0	0.0	0.0	20.0
P-1103	Leq,D	98.9		265.99	-59.5	5.2	-23.5	-1.1		0.0	0.0	0.0	0.0	20.0
P-1105 A/B/C	Leq,D	98.9		259.26	-59.3	5.2	-23.2	-1.0		0.0	0.0	0.0	0.0	20.6
P-1800	Leq,D	98.9		253.60	-59.1	5.5	-24.6	-1.2		0.0	4.2	0.0	0.0	23.8
P-1801	Leq,D	98.9		209.98	-57.4	5.4	-17.0	-0.6		0.0	1.8	0.0	0.0	31.1
P-1802	Leq,D	98.9		208.59	-57.4	5.4	-17.0	-0.6		0.0	2.9	0.0	0.0	32.4
P-1803	Leq,D	99.1		271.20	-59.7	5.6	-24.1	-1.2		0.0	2.0	0.0	0.0	21.7
P-1804	Leq,D	99.1		260.93	-59.3	5.5	-23.0	-1.0		0.0	0.0	0.0	0.0	21.4
P-1805	Leq,D	99.1		257.81	-59.2	5.5	-23.9	-1.1		0.0	0.2	0.0	0.0	20.7
P-1806	Leq,D	99.1		295.24	-60.4	5.6	-22.4	-1.1		0.0	1.5	0.0	0.0	22.2
P-1809 A	Leq,D	98.9		240.60	-58.6	5.5	-24.8	-1.2		0.0	3.2	0.0	0.0	23.0
P-1810 A/B/C	Leq,D	99.0		253.17	-59.1	5.5	-23.6	-1.1		0.0	0.0	0.0	0.0	20.7
P-1811 A/B	Leq,D	99.1		288.44	-60.2	5.6	-22.9	-1.1		0.0	1.6	0.0	0.0	22.0
P-1811 A/B	Leq,D	99.1		253.99	-59.1	5.5	-23.5	-1.0		0.0	0.0	0.0	0.0	21.1
P-1847 A/B	Leq,D	99.4		278.57	-59.9	5.6	-24.4	-1.2		0.0	0.0	0.0	0.0	19.4
P-1849 A/B	Leq,D	99.4		271.96	-59.7	5.6	-24.5	-1.2		0.0	0.0	0.0	0.0	19.6
P-1853	Leq,D	99.1		405.51	-63.2	5.7	-18.1	-1.2	-0.97	0.0	0.0	0.0	0.0	21.5
Piping Furnace Tanks	Leq,D	87.1	72	447.02	-64.0	4.4	-24.0	-6.3		0.0	0.3	0.0	0.0	-2.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	458.89	-64.2	4.6	-24.1	-6.4		0.0	0.1	0.0	0.0	8.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	491.22	-64.8	5.1	-25.0	-4.0		0.0	0.0	0.0	0.0	25.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	488.20	-64.8	5.1	-25.0	-10.2		0.0	0.1	0.0	0.0	20.4
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	186.00	-56.4	3.4	-14.3	-0.8		0.0	0.5	0.0	0.0	43.0
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	209.56	-57.4	3.4	-24.4	-1.0		0.0	0.8	0.0	0.0	32.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	237.44	-58.5	3.6	-24.3	-1.1		0.0	0.0	0.0	0.0	23.7
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	207.47	-57.3	3.4	-23.6	-0.9		0.0	4.6	0.0	0.0	37.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	236.55	-58.5	3.0	-24.3	-1.1		0.0	0.0	0.0	0.0	23.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	233.43	-58.4	3.5	-24.4	-1.1		0.0	0.5	0.0	0.0	23.9
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	241.48	-58.6	3.6	-24.0	-1.1		0.0	0.0	0.0	0.0	26.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	232.05	-58.3	3.4	-23.8	-1.0		0.0	0.5	0.0	0.0	26.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	210.07	-57.4	3.0	-14.1	-0.7		0.0	0.2	0.0	0.0	44.0
PSA Pipe 3" Lagging	Leq,D	80.6	11	473.80	-64.5	3.6	-24.5	-3.6		0.0	0.0	0.0	0.0	-8.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	494.27	-64.9	5.1	-25.0	-4.0		0.0	0.0	0.0	0.0	27.9
Reformer-Burner Reformer East	Leq,D	97.3	269	437.82	-63.8	3.6	-24.8	-2.5		0.0	0.2	0.0	0.0	12.9
Reformer-Burner Reformer North	Leq,D	95.9	192	446.10	-64.0	3.7	-24.8	-2.6		0.0	0.2	0.0	0.0	8.4
Reformer-Burner Reformer South	Leq,D	95.8	191	427.26	-63.6	3.7	-22.9	-1.9		0.0	0.3	0.0	0.0	14.3
Reformer-Burner Reformer West	Leq,D	97.3	268	435.42	-63.8	3.7	-20.1	-1.5		0.0	0.0	0.0	0.0	18.7
RFG A from battery to process	Leq,D	99.4	87	452.28	-64.1	4.6	-24.1	-6.5		0.0	0.0	0.0	0.0	9.3
RFG A from battery to process w NC	Leq,D	115.2	42	488.66	-64.8	5.1	-25.0	-10.0		0.0	0.1	0.0	0.0	20.7
Stack Noise	Leq,D	108.4		399.91	-63.0	3.0	-12.2	-0.5		-4.7	0.0	0.0	0.0	31.0
Steam Turbine-Facade 01	Leq,D	99.6	29	495.92	-64.9	5.4	-23.0	-3.7		0.0	1.6	0.0	0.0	15.0
Steam Turbine-Facade 02	Leq,D	96.2	13	492.21	-64.8	5.4	-23.0	-3.7		0.0	0.7	0.0	0.0	10.8
Steam Turbine-Facade 03	Leq,D	99.6	29	496.40	-64.9	5.4	-24.4	-5.5		0.0	2.9	0.0	0.0	13.1
Steam Turbine-Facade 04	Leq,D	96.2	13	500.17	-65.0	5.4	-24.5	-5.6		0.0	3.5	0.0	0.0	10.1
Steam Turbine-Roof 01	Leq,D	99.7	30	496.43	-64.9	5.1	-22.8	-3.6		0.0	1.6	0.0	0.0	15.1
Tank Farm Pump 1	Leq,D	99.0	3	294.03	-60.4	5.3	-23.2	-1.6		0.0	0.0	0.0	0.0	19.2
Tank Farm Pump 2	Leq,D	99.0	3	272.95	-59.7	5.2	-23.3	-1.5		0.0	0.0	0.0	0.0	19.7
Tank Farm Pump 3	Leq,D	99.0	3	267.04	-59.5	5.2	-23.4	-1.5		0.0	1.6	0.0	0.0	21.4
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	712.77	-68.1	5.2	-17.1	-1.4	-0.04	0.0	0.1	-11.8	0.0	19.4
XF-1502 Splitter Area 1	Leq,D	104.5		562.15	-66.0	4.2	-24.2	-2.6	-0.02	-2.9	0.0	0.0	0.0	13.1
XF-1502 Splitter Area 2	Leq,D	104.5		561.58	-66.0	4.2	-19.7	-1.8	-0.05	-2.6	0.0	0.0	0.0	18.6
XF-1504 Splitter Area 1	Leq,D	104.5		557.79	-65.9	4.2	-24.2	-2.6	-0.02	-2.9	0.0	0.0	0.0	13.1
XF-1504 Splitter Area 2	Leq,D	104.5		557.22	-65.9	4.2	-19.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	18.7
XF 251, 250, 271, 270	Leq,D	101.1	128	397.05	-63.0	3.9	-13.8	-0.6	0.00	-1.5	0.5	0.0	0.0	26.5
XF 260, 261A, 261 B	Leq,D	99.9	97	449.28	-64.0	4.1	-13.0	-0.7	0.00	-1.5	0.2	0.0	0.0	24.9
XF 304, XF 321	Leq,D	110.5	56	632.10	-67.0	4.4	-21.2	-1.0	-0.02	-1.3	0.0	0.0	0.0	24.3
XF 313, XF 314	Leq,D	113.0	18	638.41	-67.1	4.7	-20.6	-1.4		-2.3	0.0	0.0	0.0	26.3
XF 335-1, XF 335-2	Leq,D	113.4	54	634.33	-67.0	4.4	-21.1	-1.4	-0.03	-1.4	0.0	0.0	0.0	26.9
XF 353A/B	Leq,D	95.4	35	328.01	-61.3	3.5	-14.5	-0.5	0.00	-1.5	0.0	0.0	0.0	21.1
XF 353A/B	Leq,D	95.4	35	335.32	-61.5	3.5	-15.2	-0.5	0.00	-1.5	0.0	0.0	0.0	20.2
XF 354A/B	Leq,D	95.4	35	362.49	-62.2	3.7	-14.3	-0.5	0.00	-1.5	0.0	0.0	0.0	20.6
XF 503	Leq,D	113.0	21	606.69	-66.7	4.8	-19.0	-1.6	-0.42	-2.6	0.0	0.0	0.0	27.5
XF - 1601	Leq,D	96.6		541.99	-65.7	3.3	-16.1	-0.8		-1.0	0.0	0.0	0.0	16.3
XF - 1602	Leq,D	96.6		536.12	-65.6	3.3	-16.1	-0.8		-1.0	0.0	0.0	0.0	16.4
XF Module 1510	Leq,D	108.3		566.78	-66.1	4.4	-19.8	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.2
XF Module 1519	Leq,D	109.0		567.56	-66.1	4.4	-19.8	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.9
xxxx xxxx xxxx xxxx	Leq,D		228								8.2			20.8
xxxx xxxx xxxx xxxx	Leq,D		520								10.1			53.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
xxxx xxxx xxxx xxxx	Leq,D		1341								11.8			55.0
xxxx xxxx xxxx xxxx	Leq,D		450								8.6			24.9
Receiver E-5 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 64.9 dB(A)		Ld 7-19 dB(A)		Leq,N 64.9 dB(A)		Le 19-22 dB(A)		CNEL 71.5 dB(A)		Lmax day hr	dB(A) Ld
ID Fan Motor	Leq,D	104.4	2	426.36	-63.6	5.3	-24.6	-3.0		0.0	2.4	0.0	0.0	20.9
18-1855 A/B	Leq,D	98.8		406.89	-63.2	5.5	-17.8	-1.1		0.0	0.3	0.0	0.0	22.6
18-1856 A/B	Leq,D	98.8		399.95	-63.0	5.5	-18.8	-1.2		0.0	0.0	0.0	0.0	21.3
18-1857 A/B	Leq,D	98.8		413.61	-63.3	5.5	-17.6	-1.1		0.0	0.6	0.0	0.0	22.9
18-1858 A/B	Leq,D	98.8		418.25	-63.4	5.4	-17.3	-1.1		0.0	0.2	0.0	0.0	22.5
18-PK 1802 Air Compressor Package	Leq,D	103.1		390.72	-62.8	5.7	-17.4	-0.6		0.0	0.0	0.0	0.0	28.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	526.64	-65.4	5.5	-9.3	-2.8	-0.50	0.0	0.0	-2.7	0.0	33.8
Air Compressor C 1	Leq,D	110.0	5	637.42	-67.1	5.7	-22.7	-1.6	-0.35	0.0	5.7	0.0	0.0	29.7
Air Compressor Pump	Leq,D	100.3		479.78	-64.6	5.5	-23.0	-2.9		0.0	0.0	0.0	0.0	15.4
Blower F 401	Leq,D	113.0		599.60	-66.5	5.5	-18.2	-0.7		0.0	0.0	0.0	0.0	33.1
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	333.12	-61.4	5.2	-11.7	-0.7		0.0	0.1	0.0	0.0	30.1
Boiler Feed Water Pump A	Leq,D	97.1	3	404.95	-63.1	5.4	-19.8	-1.2		0.0	0.0	0.0	0.0	18.4
Boiler Feed Water Pump B	Leq,D	97.1	3	404.06	-63.1	5.4	-19.7	-1.2		0.0	0.0	0.0	0.0	18.5
C370 A Motor	Leq,D	103.6	3	486.34	-64.7	5.1	-19.5	-1.4		0.0	0.3	0.0	0.0	23.4
C370 B Motor	Leq,D	108.6	3	475.95	-64.5	5.1	-21.6	-1.5		0.0	0.0	0.0	0.0	26.1
C370A	Leq,D	103.8	5	487.06	-64.7	5.2	-21.1	-1.5		0.0	0.0	0.0	0.0	21.6
C370B	Leq,D	103.8	5	476.69	-64.6	5.1	-18.0	-1.3		0.0	0.0	0.0	0.0	25.1
C-270 A	Leq,D	106.3	6	357.66	-62.1	4.9	-16.7	-1.1	-1.06	0.0	0.0	0.0	0.0	30.3
C-270 B	Leq,D	106.3	6	362.60	-62.2	4.9	-16.2	-1.1	-1.11	0.0	0.0	0.0	0.0	30.6
C-270 C	Leq,D	106.3	6	367.44	-62.3	4.9	-15.4	-1.1	-1.08	0.0	0.1	0.0	0.0	31.5
C-301 Compressor	Leq,D	106.8	3	342.48	-61.7	4.9	-11.5	-1.1	-0.90	0.0	0.0	0.0	0.0	36.4
C-301 Motor	Leq,D	106.8	4	346.25	-61.8	4.9	-12.6	-1.7	-1.09	0.0	0.0	0.0	0.0	34.6
C-351 Compressor	Leq,D	106.8	4	338.68	-61.6	4.9	-11.8	-1.1	-0.83	0.0	0.0	0.0	0.0	36.3
C-351 Motor	Leq,D	106.8	5	338.68	-61.6	4.6	-16.7	-1.6	-0.93	0.0	0.0	0.0	0.0	30.6
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	542.28	-65.7	5.6	-8.7	-1.0	-0.55	0.0	0.0	-33.5	0.0	30.9
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	636.26	-67.1	5.4	-18.4	-1.2	-0.74	0.0	0.0	0.0	0.0	22.8
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	633.45	-67.0	5.4	-17.3	-1.3	-0.73	0.0	0.0	0.0	0.0	19.6
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	645.43	-67.2	5.4	-22.8	-1.6	-0.73	-3.9	0.0	0.0	0.0	15.7
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	645.24	-67.2	5.4	-18.1	-1.2	-0.74	4.6	0.0	0.0	0.0	33.4
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	634.78	-67.0	5.4	-21.0	-1.3	-0.73	4.6	2.7	0.0	0.0	26.3
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	655.90	-67.3	5.4	-22.2	-1.8	-0.72	-7.8	0.0	0.0	0.0	5.9
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	565.80	-66.0	5.4	-21.1	-1.5		0.2	0.0	0.0	0.0	14.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	577.82	-66.2	5.3	-21.9	-1.6		-7.8	0.0	0.0	0.0	5.7
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	541.59	-65.7	5.1	-16.3	-1.1		0.3	0.0	0.0	0.0	23.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	559.01	-65.9	5.2	-22.3	-1.7		-7.8	2.2	0.0	0.0	10.3
Cooling Tower M 512	Leq,D	95.7		570.35	-66.1	5.6	-18.2	-1.9		0.0	0.0	0.0	0.0	15.1
Cooling Tower M 513	Leq,D	95.7		571.72	-66.1	5.6	-18.1	-1.9		0.0	0.0	0.0	0.0	15.1
Cooling Tower M 514	Leq,D	95.7		568.85	-66.1	5.6	-18.2	-1.9		0.0	0.0	0.0	0.0	15.1
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	420.59	-63.5	4.2	-16.1	-0.6		-1.4	0.0	0.0	0.0	18.5
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	440.48	-63.9	5.2	-13.7	-0.1		0.0	0.0	0.0	0.0	22.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	442.50	-63.9	5.2	-15.6	-0.1		0.0	0.1	0.0	0.0	18.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	441.68	-63.9	4.8	-13.7	-0.1		0.0	0.1	0.0	0.0	20.6
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	440.87	-63.9	5.2	-18.8	-0.1		0.0	0.1	0.0	0.0	15.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	442.89	-63.9	5.2	-16.3	-0.1		0.0	0.2	0.0	0.0	20.3
FD Motor	Leq,D	103.3	2	439.40	-63.8	5.3	-22.5	-2.5		0.0	2.8	0.0	0.0	22.6
Feed Compressor -B Motor	Leq,D	103.8	5	442.58	-63.9	5.0	-22.8	-2.4		0.0	0.0	0.0	0.0	19.7
Feed Compressor-A Compressor	Leq,D	104.0	5	457.61	-64.2	5.2	-21.2	-1.4		0.0	0.2	0.0	0.0	22.6
Feed Compressor-A Motor	Leq,D	103.8	6	456.49	-64.2	5.1	-18.9	-1.9		0.0	0.1	0.0	0.0	23.9
Feed Compressor-B Compressor	Leq,D	104.0	7	443.78	-63.9	5.1	-20.0	-1.3		0.0	0.0	0.0	0.0	23.9
H2S Compressor 18-C-271	Leq,D	105.3	6	626.12	-66.9	5.5	-17.7	-1.6	-0.46	0.0	0.0	0.0	0.0	24.1
Heater # 5-Heater	Leq,D	91.1	13	334.20	-61.5	5.2	-19.4	-0.8		0.0	1.6	0.0	0.0	19.2
Heater # 5-Heater	Leq,D	91.1	13	339.23	-61.6	5.2	-19.8	-0.8		0.0	0.4	0.0	0.0	17.5
Heater # 5-Heater	Leq,D	91.1	13	329.30	-61.3	5.2	-19.2	-0.8		0.0	1.3	0.0	0.0	19.3
Hydro Heater H-402	Leq,D	98.1		596.62	-66.5	5.6	-20.4	-1.2		0.0	0.0	0.0	0.0	15.7
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	424.65	-63.6	5.3	-21.7	-0.1		0.0	0.1	0.0	0.0	7.0
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	423.74	-63.5	5.3	-10.0	-0.1		0.0	0.0	0.0	0.0	19.0
ID Fan-ID Fan - North	Leq,D	92.2	8	426.12	-63.6	5.3	-21.5	-0.1		0.0	0.2	0.0	0.0	12.5
ID Fan-ID Fan - North 2	Leq,D	91.4	7	423.42	-63.5	5.3	-21.9	-0.1		0.0	0.1	0.0	0.0	11.3
ID Fan-ID Fan - South	Leq,D	92.3	9	424.92	-63.6	5.3	-9.9	-0.1		0.0	0.0	0.0	0.0	24.1
ID Fan-ID Fan - South 2	Leq,D	91.4	7	422.84	-63.5	5.3	-16.3	-0.1		0.0	0.0	0.0	0.0	16.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	424.87	-63.6	5.0	-13.0	-0.1		0.0	0.5	0.0	0.0	22.8
Motor & Pump P 56A/B	Leq,D	93.7		608.24	-66.7	5.6	-21.7	-2.5	-0.14	0.0	1.0	0.0	0.0	9.3
Motor & Pump P 120/121	Leq,D	96.2	2	632.96	-67.0	5.7	-23.3	-2.3	-0.24	0.0	0.0	0.0	0.0	9.0
Motor & Pump P 211/212	Leq,D	93.7		621.52	-66.9	5.7	-21.2	-2.5	-0.60	0.0	0.0	0.0	0.0	8.1
Motor & Pump P 215/214	Leq,D	94.6		622.91	-66.9	5.7	-15.1	-2.3	-0.60	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 216	Leq,D	98.3		628.11	-67.0	5.6	-21.4	-2.5	-0.75	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 217/218	Leq,D	93.7		622.16	-66.9	5.8	-15.0	-2.2	-0.60	0.0	0.0	0.0	0.0	14.7
Motor & Pump P 300	Leq,D	97.1	2	644.97	-67.2	5.7	-19.7	-1.8	-0.56	0.0	0.0	0.0	0.0	13.5
Motor & Pump P 301	Leq,D	102.1	2	644.47	-67.2	5.7	-19.7	-1.8	-0.56	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 302	Leq,D	97.1	2	645.52	-67.2	5.7	-23.0	-2.2	-0.24	0.0	0.0	0.0	0.0	10.2
Motor & Pump P 303	Leq,D	97.1	2	646.07	-67.2	5.7	-22.8	-2.2	-0.24	0.0	0.0	0.0	0.0	10.3
Motor & Pump P 305	Leq,D	97.5	2	646.53	-67.2	5.7	-22.9	-2.2	-0.24	0.0	0.0	0.0	0.0	10.7
Motor & Pump P 306	Leq,D	112.6	4	649.30	-67.2	5.6	-23.5	-2.6	-0.47	0.0	0.3	0.0	0.0	24.8
Motor & Pump P 307	Leq,D	102.1	2	643.02	-67.2	5.7	-23.5	-2.3	-0.54	0.0	0.0	0.0	0.0	14.3
Motor & Pump P 309	Leq,D	97.5	2	646.99	-67.2	5.7	-22.9	-2.2	-0.24	0.0	0.0	0.0	0.0	10.7
Motor & Pump P 312	Leq,D	101.5	2	636.90	-67.1	5.7	-19.8	-1.8	-0.33	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 313	Leq,D	101.5	2	636.43	-67.1	5.7	-20.4	-1.8	-0.24	0.0	0.0	0.0	0.0	17.7
Motor & Pump P 315	Leq,D	102.9	2	635.04	-67.0	5.7	-20.0	-1.8	-0.24	0.0	0.0	0.0	0.0	19.5
Motor & Pump P 316	Leq,D	102.9	2	634.55	-67.0	5.7	-20.9	-1.9	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 317	Leq,D	102.9	2	633.97	-67.0	5.7	-20.9	-1.9	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 318	Leq,D	100.2	1	635.05	-67.0	5.8	-20.1	-1.8	-0.24	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 319	Leq,D	100.2	1	635.43	-67.1	5.8	-20.1	-1.8	-0.24	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 327	Leq,D	111.2	3	652.51	-67.3	5.7	-24.1	-3.5		0.0	1.1	0.0	0.0	23.1
Motor & Pump P 328	Leq,D	109.9	5	647.40	-67.2	5.6	-22.9	-2.1	-0.48	0.0	0.0	0.0	0.0	22.8
Motor & Pump P 329	Leq,D	110.2	5	648.31	-67.2	5.6	-22.9	-2.2	-0.54	0.0	0.0	0.0	0.0	22.9
Motor & Pump P 451	Leq,D	93.7		593.99	-66.5	5.6	-15.4	-2.1		0.0	0.0	0.0	0.0	15.3
Motor & Pump P 453	Leq,D	93.7		588.85	-66.4	5.6	-22.7	-2.7		0.0	0.0	0.0	0.0	7.4
Motor & Pump P 454	Leq,D	93.7		595.53	-66.5	5.6	-15.4	-2.1		0.0	0.0	0.0	0.0	15.3
Motor & Pump P 457	Leq,D	93.7		588.56	-66.4	5.6	-22.6	-2.7		0.0	0.0	0.0	0.0	7.5
Motor & Pump P 458	Leq,D	93.7		592.86	-66.5	5.6	-15.4	-2.1		0.0	0.0	0.0	0.0	15.3
Motor & Pump P 459	Leq,D	93.7		595.74	-66.5	5.6	-15.4	-2.2		0.0	0.0	0.0	0.0	15.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		586.92	-66.4	5.6	-19.3	-2.1	-0.15	0.0	0.5	0.0	0.0	14.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		587.36	-66.4	5.6	-19.0	-2.1	-0.29	0.0	0.0	0.0	0.0	14.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		588.49	-66.4	5.7	-23.5	-3.0	-0.18	0.0	0.0	0.0	0.0	8.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		588.87	-66.4	5.7	-24.2	-3.5	-0.22	0.0	0.0	0.0	0.0	6.7
Motor & Pump P 1601 A	Leq,D	96.3	2	559.82	-66.0	5.5	-21.4	-2.2		0.0	0.0	0.0	0.0	12.3
Motor & Pump P 1601 B	Leq,D	96.3	2	558.33	-65.9	5.5	-21.6	-2.3		0.0	0.9	0.0	0.0	12.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1602 A	Leq,D	96.3	2	557.15	-65.9	5.5	-21.6	-2.3		0.0	0.9	0.0	0.0	12.9
Motor & Pump P 1602 B	Leq,D	96.5	2	555.71	-65.9	5.5	-21.7	-2.3		0.0	0.9	0.0	0.0	13.0
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	578.08	-66.2	5.7	-23.4	-3.2	-0.20	0.0	0.0	0.0	0.0	9.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	579.46	-66.3	5.7	-21.0	-2.2	-0.18	0.0	0.0	0.0	0.0	12.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	580.14	-66.3	5.7	-21.4	-2.3	-0.18	0.0	0.0	0.0	0.0	12.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	587.20	-66.4	5.6	-23.4	-3.2		0.0	0.0	0.0	0.0	9.4
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	587.68	-66.4	5.6	-19.1	-2.1	-0.31	0.0	0.0	0.0	0.0	14.5
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	575.08	-66.2	5.7	-22.3	-2.5	-0.02	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	577.28	-66.2	5.7	-22.3	-2.5	-0.08	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	581.12	-66.3	5.7	-22.5	-2.6	-0.18	0.0	0.0	0.0	0.0	10.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	579.40	-66.3	5.7	-22.2	-2.5	-0.13	0.0	0.0	0.0	0.0	10.8
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	613.29	-66.7	5.5	-21.6	-1.9		0.0	0.0	0.0	0.0	19.4
P-2 A/B	Leq,D	98.5		243.58	-58.7	5.5	-24.5	-1.1		0.0	7.8	0.0	0.0	27.4
P-50 A/B	Leq,D	98.1		279.10	-59.9	5.6	-23.2	-1.0	-0.08	0.0	0.6	0.0	0.0	20.0
P-51 A/B	Leq,D	98.1		279.29	-59.9	5.6	-23.3	-1.1	-0.09	0.0	0.6	0.0	0.0	19.9
P-060 A/B	Leq,D	98.1		279.15	-59.9	5.6	-24.2	-1.2	-0.09	0.0	0.0	0.0	0.0	18.3
P-63	Leq,D	98.5		275.58	-59.8	5.6	-23.6	-1.1		0.0	1.5	0.0	0.0	21.1
P-70 A/B	Leq,D	98.1		279.11	-59.9	5.6	-24.3	-1.2	-0.10	0.0	0.0	0.0	0.0	18.2
P-73 A/B	Leq,D	98.5		248.04	-58.9	5.5	-24.4	-1.1		0.0	12.8	0.0	0.0	32.4
P-251 A/B	Leq,D	98.2		416.11	-63.4	5.7	-6.5	-1.6	-2.49	0.0	0.0	0.0	0.0	30.0
P-252 A/B	Leq,D	98.2		413.04	-63.3	5.7	-17.9	-1.1	-1.72	0.0	0.0	0.0	0.0	19.8
P-253	Leq,D	98.2		405.14	-63.1	5.7	-18.2	-1.1	-1.68	0.0	0.0	0.0	0.0	19.8
P-254 A/B	Leq,D	98.2		404.44	-63.1	5.7	-6.9	-1.5	-2.24	0.0	0.0	0.0	0.0	30.2
P-255 A/B	Leq,D	98.2		407.98	-63.2	5.7	-6.8	-1.5	-2.32	0.0	0.0	0.0	0.0	30.1
P-255 A/B	Leq,D	98.2		423.58	-63.5	5.7	-6.3	-1.6	-2.65	0.0	0.0	0.0	0.0	29.8
P-256 A/B	Leq,D	98.2		412.58	-63.3	5.7	-6.6	-1.6	-2.42	0.0	0.0	0.0	0.0	30.0
P-259 A/B	Leq,D	98.2		419.73	-63.5	5.7	-6.4	-1.6	-2.57	0.0	0.0	0.0	0.0	29.9
P-260	Leq,D	99.1		433.06	-63.7	5.7	-17.2	-1.2	-1.82	0.0	0.0	0.0	0.0	20.9
P-261 A/B	Leq,D	98.0		457.50	-64.2	5.7	-15.8	-1.2	-1.90	0.0	0.0	0.0	0.0	20.6
P-262 A/B	Leq,D	99.1		441.86	-63.9	5.7	-16.8	-1.2	-1.85	0.0	0.0	0.0	0.0	21.1
P-263 A/B	Leq,D	99.4		437.66	-63.8	5.7	-17.0	-1.2	-1.84	0.0	0.0	0.0	0.0	21.2
P-270 A/B	Leq,D	98.5		360.89	-62.1	5.7	-17.8	-1.1	-1.73	0.0	0.0	0.0	0.0	21.4
P-271 A/B	Leq,D	98.2		394.35	-62.9	5.7	-7.2	-1.4	-2.02	0.0	0.0	0.0	0.0	30.3
P-272 A/B	Leq,D	98.2		399.25	-63.0	5.7	-7.1	-1.5	-2.13	0.0	0.0	0.0	0.0	30.2
P-273 A/B	Leq,D	98.5		364.50	-62.2	5.7	-16.6	-1.1	-1.80	0.0	0.0	0.0	0.0	22.5
P-275 A/B/C	Leq,D	98.2		393.51	-62.9	5.7	-18.6	-1.1	-1.59	0.0	0.0	0.0	0.0	19.7
P-305	Leq,D	99.3		348.91	-61.8	5.7	-20.5	-1.1	-1.17	0.0	2.5	0.0	0.0	22.9
P-306	Leq,D	100.8		339.07	-61.6	5.7	-21.0	-1.1	-1.10	0.0	2.3	0.0	0.0	24.0
P-309	Leq,D	99.3		346.50	-61.8	5.7	-20.5	-1.1	-1.16	0.0	2.5	0.0	0.0	22.9
P-328	Leq,D	100.8		333.30	-61.4	5.6	-21.5	-1.1	-1.04	0.0	2.3	0.0	0.0	23.7
P-329	Leq,D	100.8		336.09	-61.5	5.6	-21.1	-1.0	-1.06	0.0	2.3	0.0	0.0	24.0
P-353	Leq,D	98.5		345.34	-61.8	5.4	-18.9	-1.0	-1.05	0.0	0.0	0.0	0.0	21.2
P-358 A/B	Leq,D	99.4		324.38	-61.2	5.6	-23.0	-1.2	-0.61	0.0	2.4	0.0	0.0	21.5
P-359 A/B	Leq,D	99.4		324.35	-61.2	5.6	-23.6	-1.3	-0.90	0.0	0.3	0.0	0.0	18.4
P-360 A/B	Leq,D	99.4		324.61	-61.2	5.6	-23.5	-1.3	-0.60	0.0	0.0	0.0	0.0	18.5
P-361A	Leq,D	98.1		280.86	-60.0	5.3	-18.3	-0.8	-0.10	0.0	0.0	0.0	0.0	24.2
P-371 A/B	Leq,D	98.0		530.24	-65.5	5.6	-19.2	-1.5		0.0	0.0	0.0	0.0	17.4
P-373 A/B	Leq,D	98.0		511.63	-65.2	5.6	-20.3	-1.5		0.0	0.0	0.0	0.0	16.6
P-374 A/B	Leq,D	98.0		515.39	-65.2	5.6	-20.1	-1.5		0.0	0.0	0.0	0.0	16.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-375 A/B	Leq,D	98.0		523.95	-65.4	5.6	-20.1	-1.5		0.0	0.0	0.0	0.0	16.6
P-376	Leq,D	98.0		517.80	-65.3	5.6	-20.0	-1.5		0.0	0.0	0.0	0.0	16.8
P-376 A/B	Leq,D	98.0		507.62	-65.1	5.6	-20.5	-1.5		0.0	0.0	0.0	0.0	16.5
P-377	Leq,D	98.0		520.03	-65.3	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	16.8
P-1101 A	Leq,D	98.9		251.16	-59.0	5.2	-22.6	-1.0		0.0	0.0	0.0	0.0	21.5
P-1103	Leq,D	98.9		252.62	-59.0	5.2	-22.5	-1.0		0.0	0.0	0.0	0.0	21.5
P-1105 A/B/C	Leq,D	98.9		245.54	-58.8	5.2	-22.8	-1.0		0.0	0.0	0.0	0.0	21.5
P-1800	Leq,D	98.9		225.73	-58.1	5.5	-4.8	-1.1		0.0	1.2	0.0	0.0	41.6
P-1801	Leq,D	98.9		176.81	-55.9	5.3	-5.6	-0.8		0.0	1.9	0.0	0.0	43.8
P-1802	Leq,D	98.9		176.22	-55.9	5.3	-5.5	-0.8		0.0	1.9	0.0	0.0	43.9
P-1803	Leq,D	99.1		271.21	-59.7	5.6	-24.7	-1.3		0.0	2.9	0.0	0.0	21.9
P-1804	Leq,D	99.1		256.41	-59.2	5.5	-23.6	-1.0		0.0	0.7	0.0	0.0	21.5
P-1805	Leq,D	99.1		253.25	-59.1	5.5	-24.0	-1.1		0.0	0.3	0.0	0.0	20.9
P-1806	Leq,D	99.1		295.27	-60.4	5.6	-22.1	-1.0	-0.13	0.0	0.0	0.0	0.0	21.1
P-1809 A	Leq,D	98.9		212.79	-57.6	5.4	-24.7	-1.0		0.0	3.6	0.0	0.0	24.7
P-1810 A/B/C	Leq,D	99.0		252.05	-59.0	5.5	-24.7	-1.2		0.0	2.4	0.0	0.0	22.0
P-1811 A/B	Leq,D	99.1		288.42	-60.2	5.6	-23.3	-1.1	0.00	0.0	0.0	0.0	0.0	20.1
P-1811 A/B	Leq,D	99.1		249.35	-58.9	5.5	-24.0	-1.1		0.0	1.0	0.0	0.0	21.6
P-1847 A/B	Leq,D	99.4		296.25	-60.4	5.6	-17.8	-0.9		0.0	0.0	0.0	0.0	25.9
P-1849 A/B	Leq,D	99.4		290.04	-60.2	5.6	-18.0	-0.9		0.0	0.0	0.0	0.0	25.9
P-1853	Leq,D	99.1		394.21	-62.9	5.7	-19.5	-1.2	-0.82	0.0	0.0	0.0	0.0	20.4
Piping Furnace Tanks	Leq,D	87.1	72	464.46	-64.3	4.4	-23.1	-5.4		0.0	0.9	0.0	0.0	-0.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	473.08	-64.5	4.6	-23.2	-5.3		0.0	0.3	0.0	0.0	10.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	508.84	-65.1	5.1	-24.6	-3.8		0.0	0.0	0.0	0.0	26.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	505.73	-65.1	5.1	-24.8	-9.3		0.0	0.0	0.0	0.0	21.1
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	203.97	-57.2	3.5	-15.9	-0.7		0.0	0.0	0.0	0.0	40.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	232.78	-58.3	3.6	-24.3	-1.1		0.0	0.6	0.0	0.0	31.6
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	255.44	-59.1	3.7	-23.8	-1.1		0.0	0.1	0.0	0.0	23.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	217.30	-57.7	3.5	-19.2	-0.7		0.0	0.0	0.0	0.0	37.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	249.49	-58.9	3.6	-23.2	-1.0		0.0	0.0	0.0	0.0	24.5
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	252.95	-59.1	3.6	-24.0	-1.1		0.0	0.4	0.0	0.0	23.5
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	256.63	-59.2	3.6	-23.5	-1.1		0.0	0.0	0.0	0.0	26.6
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	242.95	-58.7	3.6	-23.9	-1.1		0.0	0.4	0.0	0.0	26.4
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	226.47	-58.1	3.0	-16.6	-0.7		0.0	0.1	0.0	0.0	40.8
PSA Pipe 3" Lagging	Leq,D	80.6	11	491.98	-64.8	3.7	-19.8	-2.8		0.0	0.1	0.0	0.0	-3.1
PSA Skid Additional Piping w NC	Leq,D	116.6	57	511.77	-65.2	5.1	-24.8	-3.9		0.0	0.0	0.0	0.0	27.8
Reformer-Burner Reformer East	Leq,D	97.3	269	458.44	-64.2	3.7	-24.5	-2.5		0.0	0.0	0.0	0.0	12.7
Reformer-Burner Reformer North	Leq,D	95.9	192	465.24	-64.3	3.8	-23.7	-2.3		0.0	0.3	0.0	0.0	9.5
Reformer-Burner Reformer South	Leq,D	95.8	191	447.17	-64.0	3.7	-19.4	-1.6		0.0	0.5	0.0	0.0	17.9
Reformer-Burner Reformer West	Leq,D	97.3	268	454.01	-64.1	3.8	-16.6	-1.5		0.0	0.0	0.0	0.0	21.9
RFG A from battery to process	Leq,D	99.4	87	466.82	-64.4	4.6	-23.2	-5.4		0.0	0.2	0.0	0.0	11.2
RFG A from battery to process w NC	Leq,D	115.2	42	506.60	-65.1	5.1	-24.8	-9.0		0.0	0.1	0.0	0.0	21.6
Stack Noise	Leq,D	108.4		421.23	-63.5	3.0	-6.8	-1.1		-5.5	0.0	0.0	0.0	34.6
Steam Turbine-Facade 01	Leq,D	99.6	29	510.65	-65.2	5.4	-21.4	-2.9		0.0	0.4	0.0	0.0	16.0
Steam Turbine-Facade 02	Leq,D	96.2	13	507.32	-65.1	5.4	-21.5	-3.0		0.0	1.3	0.0	0.0	13.4
Steam Turbine-Facade 03	Leq,D	99.6	29	511.67	-65.2	5.4	-24.2	-5.3		0.0	5.4	0.0	0.0	15.7
Steam Turbine-Facade 04	Leq,D	96.2	13	515.04	-65.2	5.4	-23.9	-5.0		0.0	2.1	0.0	0.0	9.6
Steam Turbine-Roof 01	Leq,D	99.7	30	511.61	-65.2	5.1	-21.5	-3.0		0.0	1.5	0.0	0.0	16.7
Tank Farm Pump 1	Leq,D	99.0	3	316.00	-61.0	5.3	-20.2	-1.4		0.0	0.1	0.0	0.0	21.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Tank Farm Pump 2	Leq,D	99.0	3	296.55	-60.4	5.3	-23.6	-1.8		0.0	0.0	0.0	0.0	18.5
Tank Farm Pump 3	Leq,D	99.0	3	291.08	-60.3	5.3	-23.7	-1.7		0.0	0.0	0.0	0.0	18.6
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	718.36	-68.1	5.2	-10.6	-2.7	-0.18	0.0	0.0	-11.8	0.0	24.2
XF-1502 Splitter Area 1	Leq,D	104.5		578.45	-66.2	4.3	-22.8	-2.3	-0.01	-2.5	0.0	0.0	0.0	14.9
XF-1502 Splitter Area 2	Leq,D	104.5		577.41	-66.2	4.3	-17.0	-1.8	-0.05	-2.6	0.0	0.0	0.0	21.1
XF-1504 Splitter Area 1	Leq,D	104.5		574.22	-66.2	4.3	-23.3	-2.6	-0.01	-3.0	0.0	0.0	0.0	13.7
XF-1504 Splitter Area 2	Leq,D	104.5		573.17	-66.2	4.3	-17.1	-1.8	-0.02	-2.6	0.0	0.0	0.0	21.1
XF 251, 250, 271, 270	Leq,D	101.1	128	394.48	-62.9	3.9	-3.8	-1.0	0.00	-2.4	0.0	0.0	0.0	34.8
XF 260, 261A, 261 B	Leq,D	99.9	97	447.02	-64.0	4.1	-2.2	-1.2	0.00	-2.5	0.0	0.0	0.0	34.0
XF 304, XF 321	Leq,D	110.5	56	649.99	-67.3	4.5	-17.0	-0.9	-0.04	-1.4	0.0	0.0	0.0	28.4
XF 313, XF 314	Leq,D	113.0	18	659.56	-67.4	4.8	-17.9	-1.4	-0.01	-2.3	0.0	0.0	0.0	28.9
XF 335-1, XF 335-2	Leq,D	113.4	54	653.53	-67.3	4.5	-19.4	-1.2	-0.03	-1.4	0.0	0.0	0.0	28.5
XF 353A/B	Leq,D	95.4	35	317.49	-61.0	3.4	-13.4	-0.5	0.00	-1.5	0.0	0.0	0.0	22.4
XF 353A/B	Leq,D	95.4	35	329.96	-61.4	3.5	-2.3	-1.1		-2.8	0.0	0.0	0.0	31.4
XF 354A/B	Leq,D	95.4	35	348.16	-61.8	3.6	-13.5	-0.5	0.00	-1.4	0.0	0.0	0.0	21.8
XF 503	Leq,D	113.0	21	619.17	-66.8	4.8	-17.4	-1.5	-0.37	-2.6	0.0	0.0	0.0	29.2
XF - 1601	Leq,D	96.6		557.53	-65.9	3.4	-13.0	-0.8		-1.0	0.0	0.0	0.0	19.1
XF - 1602	Leq,D	96.6		551.84	-65.8	3.3	-13.1	-0.8		-1.0	0.0	0.0	0.0	19.1
XF Module 1510	Leq,D	108.3		581.98	-66.3	4.4	-23.1	-2.6	-0.02	-3.2	0.0	0.0	0.0	17.4
XF Module 1519	Leq,D	109.0		583.43	-66.3	4.4	-17.2	-1.8	-0.22	-2.6	0.0	0.0	0.0	25.4
xxxx xxxx xxxx xxxx	Leq,D		228								9.9			16.2
xxxx xxxx xxxx xxxx	Leq,D		520								15.7			46.8
xxxx xxxx xxxx xxxx	Leq,D		1341								2.7			64.6
xxxx xxxx xxxx xxxx	Leq,D		450								4.0			26.2
Receiver E-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 66.6 dB(A) Le 19-22 dB(A) CNEL 73.3 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	388.83	-62.8	5.2	-24.7	-2.8		0.0	2.3	0.0	0.0	21.6
18-1855 A/B	Leq,D	98.8		366.99	-62.3	5.5	-17.3	-1.0		0.0	0.2	0.0	0.0	23.9
18-1856 A/B	Leq,D	98.8		360.07	-62.1	5.5	-20.2	-1.1		0.0	0.0	0.0	0.0	20.9
18-1857 A/B	Leq,D	98.8		373.68	-62.4	5.5	-17.1	-1.0		0.0	0.3	0.0	0.0	24.1
18-1858 A/B	Leq,D	98.8		378.31	-62.5	5.3	-16.9	-1.0		0.0	0.3	0.0	0.0	24.0
18-PK 1802 Air Compressor Package	Leq,D	103.1		350.65	-61.9	5.7	-18.8	-0.5		0.0	0.0	0.0	0.0	27.6
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	484.89	-64.7	5.5	-9.5	-2.7	-0.83	0.0	0.0	-2.7	0.0	34.0
Air Compressor C 1	Leq,D	110.0	5	599.04	-66.5	5.7	-20.9	-1.3	-0.43	0.0	4.2	0.0	0.0	30.8
Air Compressor Pump	Leq,D	100.3		439.58	-63.9	5.5	-22.9	-2.8		0.0	0.0	0.0	0.0	16.1
Blower F 401	Leq,D	113.0		559.55	-65.9	5.5	-18.3	-0.7		0.0	0.0	0.0	0.0	33.6
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	293.45	-60.3	5.1	-17.7	-0.6		0.0	0.0	0.0	0.0	25.1
Boiler Feed Water Pump A	Leq,D	97.1	3	365.58	-62.3	5.4	-18.7	-1.1		0.0	0.0	0.0	0.0	20.4
Boiler Feed Water Pump B	Leq,D	97.1	3	364.61	-62.2	5.4	-18.7	-1.1		0.0	0.0	0.0	0.0	20.4
C370 A Motor	Leq,D	103.6	3	446.77	-64.0	5.0	-19.0	-1.3		0.0	0.1	0.0	0.0	24.5
C370 B Motor	Leq,D	108.6	3	436.42	-63.8	5.0	-21.2	-1.4		0.0	0.0	0.0	0.0	27.2
C370A	Leq,D	103.8	5	447.58	-64.0	5.1	-19.7	-1.3		0.0	0.0	0.0	0.0	23.9
C370B	Leq,D	103.8	5	437.25	-63.8	5.1	-17.1	-1.1		0.0	0.0	0.0	0.0	26.8
C-270 A	Leq,D	106.3	6	317.17	-61.0	4.8	-17.4	-1.0	-1.08	0.0	0.0	0.0	0.0	30.6
C-270 B	Leq,D	106.3	6	322.11	-61.2	4.8	-16.9	-1.0	-1.13	0.0	0.0	0.0	0.0	30.8
C-270 C	Leq,D	106.3	6	326.95	-61.3	4.8	-16.3	-1.0	-1.10	0.0	0.1	0.0	0.0	31.5
C-301 Compressor	Leq,D	106.8	3	302.07	-60.6	4.7	-6.5	-1.2	-1.18	0.0	0.0	0.0	0.0	42.0
C-301 Motor	Leq,D	106.8	4	305.84	-60.7	4.7	-7.2	-1.7	-1.38	0.0	0.0	0.0	0.0	40.6
C-351 Compressor	Leq,D	106.8	4	298.19	-60.5	4.7	-12.6	-1.0	-0.83	0.0	0.0	0.0	0.0	36.6
C-351 Motor	Leq,D	106.8	5	298.19	-60.5	4.4	-17.6	-1.5	-0.93	0.0	0.0	0.0	0.0	30.8
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	500.18	-65.0	5.6	-8.9	-1.0	-0.93	0.0	0.0	-33.5	0.0	30.9
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	596.63	-66.5	5.3	-19.3	-1.1	-0.73	0.1	0.0	0.0	0.0	22.5
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	593.90	-66.5	5.3	-15.9	-1.2	-0.75	0.0	0.0	0.0	0.0	21.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	605.87	-66.6	5.3	-20.7	-1.3	-0.73	-4.1	0.0	0.0	0.0	18.4
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	605.55	-66.6	5.3	-19.7	-1.2	-0.70	4.6	0.0	0.0	0.0	32.4
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	595.19	-66.5	5.3	-20.0	-1.2	-0.73	4.5	1.9	0.0	0.0	27.2
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	616.25	-66.8	5.3	-21.7	-1.7	-0.73	-7.8	0.0	0.0	0.0	7.1
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	526.49	-65.4	5.3	-19.9	-1.3		0.3	0.0	0.0	0.0	16.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	538.45	-65.6	5.3	-21.0	-1.5		-7.8	0.0	0.0	0.0	7.3
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	502.38	-65.0	5.0	-15.2	-1.0		0.3	0.0	0.0	0.0	24.8
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	519.72	-65.3	5.1	-21.3	-1.5		-7.8	1.6	0.0	0.0	11.5
Cooling Tower M 512	Leq,D	95.7		530.90	-65.5	5.6	-17.3	-1.8		0.0	0.0	0.0	0.0	16.7
Cooling Tower M 513	Leq,D	95.7		532.27	-65.5	5.5	-17.6	-1.8		0.0	0.0	0.0	0.0	16.3
Cooling Tower M 514	Leq,D	95.7		529.41	-65.5	5.6	-17.3	-1.8		0.0	0.0	0.0	0.0	16.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	381.86	-62.6	4.0	-14.2	-0.5		-1.3	0.0	0.0	0.0	21.2
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	403.03	-63.1	5.1	-15.9	-0.1		0.0	0.0	0.0	0.0	21.4
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	405.11	-63.1	5.2	-16.8	-0.1		0.0	0.2	0.0	0.0	18.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	404.23	-63.1	4.7	-16.3	-0.1		0.0	0.2	0.0	0.0	18.7
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	403.33	-63.1	5.1	-20.0	-0.1		0.0	0.1	0.0	0.0	15.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	405.40	-63.1	5.1	-18.6	-0.1		0.0	0.4	0.0	0.0	19.0
FD Motor	Leq,D	103.3	2	401.97	-63.1	5.3	-23.7	-2.7		0.0	2.9	0.0	0.0	22.1
Feed Compressor -B Motor	Leq,D	103.8	5	402.98	-63.1	4.9	-22.9	-2.4		0.0	0.0	0.0	0.0	20.3
Feed Compressor-A Compressor	Leq,D	104.0	5	418.07	-63.4	5.1	-20.9	-1.4		0.0	0.1	0.0	0.0	23.6
Feed Compressor-A Motor	Leq,D	103.8	6	416.84	-63.4	5.0	-20.8	-1.9		0.0	0.1	0.0	0.0	22.7
Feed Compressor-B Compressor	Leq,D	104.0	7	404.30	-63.1	5.0	-19.2	-1.2		0.0	0.0	0.0	0.0	25.6
H2S Compressor 18-C-271	Leq,D	105.3	6	587.09	-66.4	5.5	-16.5	-1.5	-0.42	0.0	0.0	0.0	0.0	26.0
Heater # 5-Heater	Leq,D	91.1	13	294.43	-60.4	5.1	-20.9	-0.8		0.0	1.3	0.0	0.0	18.5
Heater # 5-Heater	Leq,D	91.1	13	299.44	-60.5	5.1	-21.1	-0.8	-0.06	0.0	0.0	0.0	0.0	16.7
Heater # 5-Heater	Leq,D	91.1	13	289.55	-60.2	5.1	-20.8	-0.8		0.0	1.0	0.0	0.0	18.4
Hydro Heater H-402	Leq,D	98.1		557.07	-65.9	5.6	-18.4	-1.0		0.0	0.0	0.0	0.0	18.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	387.04	-62.7	5.3	-22.4	-0.1		0.0	0.1	0.0	0.0	7.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	386.08	-62.7	5.2	-11.9	-0.1		0.0	0.0	0.0	0.0	17.8
ID Fan-ID Fan - North	Leq,D	92.2	8	388.53	-62.8	5.2	-22.2	-0.1		0.0	0.4	0.0	0.0	12.8
ID Fan-ID Fan - North 2	Leq,D	91.4	7	385.83	-62.7	5.2	-22.5	-0.1		0.0	0.1	0.0	0.0	11.3
ID Fan-ID Fan - South	Leq,D	92.3	9	387.22	-62.8	5.2	-11.8	-0.1		0.0	0.0	0.0	0.0	22.9
ID Fan-ID Fan - South 2	Leq,D	91.4	7	385.20	-62.7	5.2	-17.7	-0.1		0.0	0.0	0.0	0.0	16.1
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	387.24	-62.8	4.9	-15.2	-0.1		0.0	0.3	0.0	0.0	21.2
Motor & Pump P 56A/B	Leq,D	93.7		568.90	-66.1	5.6	-20.8	-2.4	-0.15	0.0	0.8	0.0	0.0	10.7
Motor & Pump P 120/121	Leq,D	96.2	2	594.34	-66.5	5.7	-19.5	-1.7	-0.56	0.0	0.0	0.0	0.0	13.6
Motor & Pump P 211/212	Leq,D	93.7		581.77	-66.3	5.7	-20.8	-2.3	-0.60	0.0	0.0	0.0	0.0	9.3
Motor & Pump P 215/214	Leq,D	94.6		583.22	-66.3	5.7	-19.7	-2.3	-0.60	0.0	0.0	0.0	0.0	11.4
Motor & Pump P 216	Leq,D	98.3		588.34	-66.4	5.6	-20.2	-2.2	-0.74	0.0	0.0	0.0	0.0	14.4
Motor & Pump P 217/218	Leq,D	93.7		582.42	-66.3	5.8	-20.9	-2.2	-0.60	0.0	0.0	0.0	0.0	9.4
Motor & Pump P 300	Leq,D	97.1	2	606.32	-66.6	5.7	-18.5	-1.7	-0.56	0.0	0.0	0.0	0.0	15.3
Motor & Pump P 301	Leq,D	102.1	2	605.78	-66.6	5.7	-20.5	-1.8	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 302	Leq,D	97.1	2	606.90	-66.7	5.7	-19.3	-1.7	-0.56	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 303	Leq,D	97.1	2	607.48	-66.7	5.7	-21.6	-1.9	-0.24	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 305	Leq,D	97.5	2	607.96	-66.7	5.7	-19.6	-1.7	-0.56	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 306	Leq,D	112.6	4	610.91	-66.7	5.6	-22.0	-2.0	-0.52	0.0	0.2	0.0	0.0	27.2
Motor & Pump P 307	Leq,D	102.1	2	604.25	-66.6	5.7	-21.9	-2.0	-0.55	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 309	Leq,D	97.5	2	608.45	-66.7	5.7	-21.3	-1.9	-0.24	0.0	0.0	0.0	0.0	13.0
Motor & Pump P 312	Leq,D	101.5	2	597.75	-66.5	5.7	-19.1	-1.7	-0.25	0.0	0.0	0.0	0.0	19.7
Motor & Pump P 313	Leq,D	101.5	2	597.26	-66.5	5.7	-18.8	-1.7	-0.24	0.0	0.0	0.0	0.0	20.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 315	Leq,D	102.9	2	595.76	-66.5	5.7	-19.0	-1.7	-0.24	0.0	0.0	0.0	0.0	21.2
Motor & Pump P 316	Leq,D	102.9	2	595.24	-66.5	5.7	-19.8	-1.8	-0.24	0.0	0.0	0.0	0.0	20.3
Motor & Pump P 317	Leq,D	102.9	2	594.62	-66.5	5.7	-19.9	-1.8	-0.24	0.0	0.0	0.0	0.0	20.2
Motor & Pump P 318	Leq,D	100.2	1	595.81	-66.5	5.8	-19.1	-1.7	-0.24	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 319	Leq,D	100.2	1	596.21	-66.5	5.8	-18.9	-1.7	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 327	Leq,D	111.2	3	614.27	-66.8	5.7	-24.4	-3.5		0.0	1.3	0.0	0.0	23.6
Motor & Pump P 328	Leq,D	109.9	5	608.90	-66.7	5.6	-23.1	-2.2	-0.55	0.0	0.0	0.0	0.0	23.0
Motor & Pump P 329	Leq,D	110.2	5	609.87	-66.7	5.6	-23.4	-2.3	-0.53	0.0	0.0	0.0	0.0	22.8
Motor & Pump P 451	Leq,D	93.7		554.34	-65.9	5.6	-17.6	-2.0		0.0	0.0	0.0	0.0	13.8
Motor & Pump P 453	Leq,D	93.7		549.05	-65.8	5.6	-22.0	-2.6		0.0	0.0	0.0	0.0	8.9
Motor & Pump P 454	Leq,D	93.7		555.89	-65.9	5.6	-17.6	-2.0		0.0	0.0	0.0	0.0	13.7
Motor & Pump P 457	Leq,D	93.7		548.74	-65.8	5.6	-21.9	-2.6		0.0	0.0	0.0	0.0	9.0
Motor & Pump P 458	Leq,D	93.7		553.22	-65.9	5.6	-17.6	-2.0		0.0	0.0	0.0	0.0	13.8
Motor & Pump P 459	Leq,D	93.7		556.11	-65.9	5.6	-17.6	-2.0		0.0	0.2	0.0	0.0	13.9
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		547.79	-65.8	5.6	-20.7	-2.3	-0.14	0.0	0.7	0.0	0.0	13.6
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		548.26	-65.8	5.6	-18.0	-2.0	-0.27	0.0	0.0	0.0	0.0	15.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		550.11	-65.8	5.6	-21.1	-2.2	-0.19	0.0	0.0	0.0	0.0	11.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		550.51	-65.8	5.6	-23.4	-3.0	-0.22	0.0	0.0	0.0	0.0	8.6
Motor & Pump P 1601 A	Leq,D	96.3	2	520.86	-65.3	5.5	-19.7	-2.1		0.0	0.0	0.0	0.0	14.6
Motor & Pump P 1601 B	Leq,D	96.3	2	519.37	-65.3	5.5	-20.5	-2.1		0.0	0.0	0.0	0.0	13.8
Motor & Pump P 1602 A	Leq,D	96.3	2	518.20	-65.3	5.5	-20.3	-2.1		0.0	0.4	0.0	0.0	14.5
Motor & Pump P 1602 B	Leq,D	96.5	2	516.76	-65.3	5.5	-20.8	-2.2		0.0	0.8	0.0	0.0	14.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	539.01	-65.6	5.6	-21.1	-2.6	-0.20	0.0	0.0	0.0	0.0	12.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	540.48	-65.6	5.6	-17.7	-1.9	-0.18	0.0	0.0	0.0	0.0	16.8
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	541.20	-65.7	5.6	-21.1	-2.2	-0.18	0.0	0.0	0.0	0.0	13.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	548.13	-65.8	5.6	-21.0	-2.6		0.0	0.0	0.0	0.0	12.9
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	548.64	-65.8	5.6	-17.6	-2.0	-0.31	0.0	0.0	0.0	0.0	16.7
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	536.29	-65.6	5.6	-21.6	-2.4	-0.02	0.0	0.3	0.0	0.0	12.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	538.48	-65.6	5.6	-21.6	-2.3	-0.08	0.0	0.2	0.0	0.0	12.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	542.29	-65.7	5.6	-21.7	-2.4	-0.18	0.0	0.1	0.0	0.0	12.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	540.58	-65.6	5.6	-21.5	-2.3	-0.13	0.0	0.1	0.0	0.0	12.4
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	575.12	-66.2	5.5	-21.0	-1.8		0.0	0.0	0.0	0.0	20.6
P-2 A/B	Leq,D	98.5		203.47	-57.2	5.4	-24.6	-1.0		0.0	11.3	0.0	0.0	32.5
P-50 A/B	Leq,D	98.1		238.62	-58.5	5.5	-23.7	-1.0	-0.08	0.0	0.7	0.0	0.0	20.9
P-51 A/B	Leq,D	98.1		238.84	-58.6	5.5	-23.8	-1.0	-0.08	0.0	0.7	0.0	0.0	20.9
P-060 A/B	Leq,D	98.1		238.66	-58.5	5.5	-24.4	-1.1	-0.09	0.0	0.0	0.0	0.0	19.5
P-63	Leq,D	98.5		235.57	-58.4	5.5	-24.0	-1.0		0.0	0.0	0.0	0.0	20.6
P-70 A/B	Leq,D	98.1		238.61	-58.5	5.5	-24.5	-1.1	-0.10	0.0	0.0	0.0	0.0	19.4
P-73 A/B	Leq,D	98.5		207.91	-57.3	5.4	-24.5	-1.0		0.0	12.0	0.0	0.0	33.1
P-251 A/B	Leq,D	98.2		375.65	-62.5	5.7	-14.6	-1.1	-2.15	0.0	0.0	0.0	0.0	23.6
P-252 A/B	Leq,D	98.2		372.63	-62.4	5.7	-8.0	-1.3	-2.43	0.0	0.0	0.0	0.0	29.7
P-253	Leq,D	98.2		364.73	-62.2	5.7	-8.4	-1.3	-2.26	0.0	0.0	0.0	0.0	29.7
P-254 A/B	Leq,D	98.2		363.98	-62.2	5.7	-7.4	-1.3	-2.26	0.0	0.0	0.0	0.0	30.8
P-255 A/B	Leq,D	98.2		367.52	-62.3	5.7	-7.3	-1.3	-2.33	0.0	0.0	0.0	0.0	30.6
P-255 A/B	Leq,D	98.2		383.11	-62.7	5.7	-14.7	-1.1	-2.20	0.0	0.0	0.0	0.0	23.3

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		372.11	-62.4	5.7	-14.4	-1.1	-2.12	0.0	0.0	0.0	0.0	23.8
P-259 A/B	Leq,D	98.2		379.26	-62.6	5.7	-14.6	-1.1	-2.17	0.0	0.0	0.0	0.0	23.4
P-260	Leq,D	99.1		392.64	-62.9	5.7	-7.4	-1.4	-2.87	0.0	0.0	0.0	0.0	30.3
P-261 A/B	Leq,D	98.0		417.07	-63.4	5.7	-8.5	-1.4	-3.42	0.0	0.0	0.0	0.0	27.0
P-262 A/B	Leq,D	99.1		401.44	-63.1	5.7	-7.1	-1.5	-3.06	0.0	0.0	0.0	0.0	30.1
P-263 A/B	Leq,D	99.4		397.24	-63.0	5.7	-7.2	-1.5	-2.97	0.0	0.0	0.0	0.0	30.5
P-270 A/B	Leq,D	98.5		320.45	-61.1	5.6	-18.2	-1.0	-1.72	0.0	0.0	0.0	0.0	22.2
P-271 A/B	Leq,D	98.2		353.89	-62.0	5.7	-8.1	-1.2	-2.03	0.0	0.0	0.0	0.0	30.5
P-272 A/B	Leq,D	98.2		358.78	-62.1	5.7	-7.9	-1.2	-2.14	0.0	0.0	0.0	0.0	30.5
P-273 A/B	Leq,D	98.5		324.06	-61.2	5.6	-17.0	-1.0	-1.80	0.0	0.0	0.0	0.0	23.1
P-275 A/B/C	Leq,D	98.2		353.11	-62.0	5.7	-19.0	-0.9	-1.64	0.0	0.0	0.0	0.0	20.3
P-305	Leq,D	99.3		308.72	-60.8	5.6	-21.6	-1.0	-1.17	0.0	2.2	0.0	0.0	22.5
P-306	Leq,D	100.8		298.91	-60.5	5.6	-21.9	-1.0	-1.09	0.0	1.8	0.0	0.0	23.7
P-309	Leq,D	99.3		306.32	-60.7	5.6	-21.7	-1.0	-1.15	0.0	2.1	0.0	0.0	22.5
P-328	Leq,D	100.8		293.15	-60.3	5.6	-22.0	-1.0	-1.04	0.0	1.7	0.0	0.0	23.7
P-329	Leq,D	100.8		295.93	-60.4	5.6	-21.9	-1.0	-1.07	0.0	1.8	0.0	0.0	23.8
P-353	Leq,D	98.5		304.98	-60.7	5.3	-21.0	-1.0	-1.05	0.0	0.0	0.0	0.0	20.1
P-358 A/B	Leq,D	99.4		283.89	-60.1	5.6	-23.4	-1.1	-0.61	0.0	2.2	0.0	0.0	22.0
P-359 A/B	Leq,D	99.4		283.86	-60.1	5.6	-23.8	-1.2	-0.90	0.0	0.6	0.0	0.0	19.6
P-360 A/B	Leq,D	99.4		284.17	-60.1	5.6	-23.8	-1.2	-0.60	0.0	0.0	0.0	0.0	19.4
P-361A	Leq,D	98.1		240.53	-58.6	5.1	-18.4	-0.7	-0.10	0.0	0.3	0.0	0.0	25.7
P-371 A/B	Leq,D	98.0		490.61	-64.8	5.6	-19.1	-1.5		0.0	0.0	0.0	0.0	18.2
P-373 A/B	Leq,D	98.0		472.10	-64.5	5.6	-19.6	-1.4		0.0	0.0	0.0	0.0	18.1
P-374 A/B	Leq,D	98.0		475.84	-64.5	5.6	-19.4	-1.4		0.0	0.0	0.0	0.0	18.2
P-375 A/B	Leq,D	98.0		484.37	-64.7	5.6	-19.4	-1.4		0.0	0.0	0.0	0.0	18.1
P-376	Leq,D	98.0		478.24	-64.6	5.6	-19.3	-1.4		0.0	0.0	0.0	0.0	18.2
P-376 A/B	Leq,D	98.0		468.10	-64.4	5.6	-19.8	-1.4		0.0	0.0	0.0	0.0	18.0
P-377	Leq,D	98.0		480.46	-64.6	5.6	-19.5	-1.4		0.0	0.0	0.0	0.0	18.0
P-1101 A	Leq,D	98.9		210.70	-57.5	5.0	-22.9	-0.9		0.0	9.9	0.0	0.0	32.6
P-1103	Leq,D	98.9		212.17	-57.5	5.0	-22.8	-0.9		0.0	0.4	0.0	0.0	23.1
P-1105 A/B/C	Leq,D	98.9		205.09	-57.2	5.0	-23.0	-0.9		0.0	0.0	0.0	0.0	22.8
P-1800	Leq,D	98.9		186.63	-56.4	5.4	-24.4	-0.9		0.0	19.8	0.0	0.0	42.3
P-1801	Leq,D	98.9		138.38	-53.8	5.1	-5.6	-0.7		0.0	3.5	0.0	0.0	47.4
P-1802	Leq,D	98.9		137.60	-53.8	5.1	-5.6	-0.7		0.0	3.4	0.0	0.0	47.5
P-1803	Leq,D	99.1		231.12	-58.3	5.5	-24.5	-1.1		0.0	1.1	0.0	0.0	21.8
P-1804	Leq,D	99.1		216.06	-57.7	5.5	-23.9	-0.9		0.0	0.0	0.0	0.0	22.0
P-1805	Leq,D	99.1		212.90	-57.6	5.4	-24.1	-0.9		0.0	0.4	0.0	0.0	22.4
P-1806	Leq,D	99.1		255.10	-59.1	5.5	-22.3	-0.9	-0.17	0.0	0.1	0.0	0.0	22.2
P-1809 A	Leq,D	98.9		173.59	-55.8	5.3	-24.7	-0.9		0.0	1.1	0.0	0.0	24.0
P-1810 A/B/C	Leq,D	99.0		211.93	-57.5	5.4	-24.4	-1.0		0.0	2.0	0.0	0.0	23.6
P-1811 A/B	Leq,D	99.1		248.27	-58.9	5.5	-22.5	-0.9	-0.04	0.0	0.1	0.0	0.0	22.5
P-1811 A/B	Leq,D	99.1		209.00	-57.4	5.4	-24.2	-0.9		0.0	1.1	0.0	0.0	23.1
P-1847 A/B	Leq,D	99.4		258.63	-59.2	5.5	-23.9	-1.1		0.0	0.0	0.0	0.0	20.7
P-1849 A/B	Leq,D	99.4		252.57	-59.0	5.5	-24.1	-1.1		0.0	0.4	0.0	0.0	21.1
P-1853	Leq,D	99.1		353.81	-62.0	5.7	-21.3	-1.1	-0.82	0.0	0.0	0.0	0.0	19.6
Piping Furnace Tanks	Leq,D	87.1	72	425.93	-63.6	4.3	-22.7	-5.0		0.0	1.9	0.0	0.0	2.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	434.04	-63.7	4.5	-22.2	-4.9		0.0	0.3	0.0	0.0	12.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	470.27	-64.4	5.1	-24.7	-3.6		0.0	0.1	0.0	0.0	26.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	467.14	-64.4	5.1	-24.9	-9.2		0.0	0.1	0.0	0.0	21.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	167.83	-55.5	3.4	-11.3	-0.6		0.0	0.0	0.0	0.0	46.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	197.16	-56.9	3.4	-24.3	-0.9		0.0	0.5	0.0	0.0	32.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	218.29	-57.8	3.5	-24.0	-1.0		0.0	0.1	0.0	0.0	25.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	178.76	-56.0	3.4	-19.3	-0.6		0.0	0.0	0.0	0.0	38.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	211.36	-57.5	3.4	-23.5	-0.9		0.0	0.1	0.0	0.0	25.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	216.43	-57.7	3.5	-24.0	-1.0		0.0	0.2	0.0	0.0	24.8
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	218.90	-57.8	3.5	-23.9	-1.0		0.0	0.1	0.0	0.0	27.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	204.51	-57.2	3.3	-23.9	-0.9		0.0	0.3	0.0	0.0	27.8
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	189.35	-56.5	3.0	-18.4	-0.6		0.0	0.1	0.0	0.0	40.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	453.59	-64.1	3.6	-19.0	-2.6		0.0	0.1	0.0	0.0	-1.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	473.19	-64.5	5.1	-24.8	-3.7		0.0	0.1	0.0	0.0	28.7
Reformer-Burner Reformer East	Leq,D	97.3	269	420.61	-63.5	3.5	-24.3	-2.3		0.0	0.0	0.0	0.0	13.6
Reformer-Burner Reformer North	Leq,D	95.9	192	427.09	-63.6	3.6	-23.8	-2.2		0.0	0.3	0.0	0.0	10.2
Reformer-Burner Reformer South	Leq,D	95.8	191	409.25	-63.2	3.6	-20.9	-1.6		0.0	0.6	0.0	0.0	17.1
Reformer-Burner Reformer West	Leq,D	97.3	268	415.77	-63.4	3.7	-17.6	-1.3		0.0	0.0	0.0	0.0	21.7
RFG A from battery to process	Leq,D	99.4	87	427.77	-63.6	4.5	-22.3	-4.9		0.0	0.8	0.0	0.0	13.8
RFG A from battery to process w NC	Leq,D	115.2	42	468.08	-64.4	5.1	-24.8	-8.9		0.0	0.1	0.0	0.0	22.3
Stack Noise	Leq,D	108.4		383.79	-62.7	3.0	-12.0	-0.5		-4.8	0.0	0.0	0.0	31.4
Steam Turbine-Facade 01	Leq,D	99.6	29	471.63	-64.5	5.4	-20.1	-2.6		0.0	0.4	0.0	0.0	18.2
Steam Turbine-Facade 02	Leq,D	96.2	13	468.37	-64.4	5.4	-20.0	-2.6		0.0	1.4	0.0	0.0	16.0
Steam Turbine-Facade 03	Leq,D	99.6	29	472.72	-64.5	5.4	-22.4	-4.1		0.0	3.9	0.0	0.0	17.9
Steam Turbine-Facade 04	Leq,D	96.2	13	476.04	-64.5	5.4	-23.0	-4.4		0.0	1.1	0.0	0.0	10.8
Steam Turbine-Roof 01	Leq,D	99.7	30	472.14	-64.5	5.0	-20.7	-2.7		0.0	1.8	0.0	0.0	18.7
Tank Farm Pump 1	Leq,D	99.0	3	279.20	-59.9	5.3	-22.8	-1.6		0.0	0.9	0.0	0.0	20.9
Tank Farm Pump 2	Leq,D	99.0	3	260.34	-59.3	5.2	-21.3	-1.2		0.0	0.3	0.0	0.0	22.7
Tank Farm Pump 3	Leq,D	99.0	3	255.04	-59.1	5.2	-21.4	-1.2		0.0	0.0	0.0	0.0	22.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	674.34	-67.6	5.1	-10.6	-2.6	-0.32	0.0	0.0	-11.8	0.0	24.7
XF-1502 Splitter Area 1	Leq,D	104.5		539.57	-65.6	4.1	-15.8	-1.7	-0.06	-2.5	0.0	0.0	0.0	23.0
XF-1502 Splitter Area 2	Leq,D	104.5		538.46	-65.6	4.1	-15.8	-1.7	-0.05	-2.5	0.0	0.0	0.0	23.0
XF-1504 Splitter Area 1	Leq,D	104.5		535.36	-65.6	4.1	-20.2	-2.0	-0.01	-2.7	0.0	0.0	0.0	18.1
XF-1504 Splitter Area 2	Leq,D	104.5		534.24	-65.5	4.1	-15.9	-1.7	-0.02	-2.5	0.0	0.0	0.0	23.0
XF 251, 250, 271, 270	Leq,D	101.1	128	353.96	-62.0	3.6	-2.5	-1.0	-0.02	-2.5	0.0	0.0	0.0	36.6
XF 260, 261A, 261 B	Leq,D	99.9	97	406.47	-63.2	3.9	-2.2	-1.2	0.00	-2.6	0.0	0.0	0.0	34.7
XF 304, XF 321	Leq,D	110.5	56	611.25	-66.7	4.4	-16.6	-0.9	-0.04	-1.3	0.0	0.0	0.0	29.3
XF 313, XF 314	Leq,D	113.0	18	621.41	-66.9	4.7	-19.8	-1.3	-0.01	-2.2	0.0	0.0	0.0	27.6
XF 335-1, XF 335-2	Leq,D	113.4	54	615.03	-66.8	4.4	-19.4	-1.2	-0.03	-1.4	0.0	0.0	0.0	29.0
XF 353A/B	Leq,D	95.4	35	277.02	-59.8	3.0	-13.8	-0.4	0.00	-1.6	0.0	0.0	0.0	22.8
XF 353A/B	Leq,D	95.4	35	289.48	-60.2	3.1	-3.6	-0.9		-2.6	0.0	0.0	0.0	31.2
XF 354A/B	Leq,D	95.4	35	307.87	-60.8	3.3	-14.9	-0.4	0.00	-1.4	0.0	0.0	0.0	21.3
XF 503	Leq,D	113.0	21	579.68	-66.3	4.7	-17.2	-1.5	-0.34	-2.7	0.0	0.0	0.0	29.8
XF - 1601	Leq,D	96.6		518.57	-65.3	3.2	-12.1	-0.8		-1.0	0.0	0.0	0.0	20.7
XF - 1602	Leq,D	96.6		512.91	-65.2	3.1	-12.1	-0.8		-1.0	0.0	0.0	0.0	20.7
XF Module 1510	Leq,D	108.3		542.92	-65.7	4.3	-20.6	-2.1	-0.02	-2.9	0.0	0.0	0.0	21.3
XF Module 1519	Leq,D	109.0		544.47	-65.7	4.3	-15.9	-1.7	-0.22	-2.5	0.0	0.0	0.0	27.3
xxxx xxxx xxxx xxxx	Leq,D		228								11.3			18.8
xxxx xxxx xxxx xxxx	Leq,D		520								13.0			44.0
xxxx xxxx xxxx xxxx	Leq,D		1341								2.2			66.3
xxxx xxxx xxxx xxxx	Leq,D		450								7.6			30.4
Receiver S-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.0 dB(A) Ld 7-19 dB(A) Leq,N 61.0 dB(A) Le 19-22 dB(A) CNEL 67.6 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	442.72	-63.9	5.3	-24.4	-3.0		0.0	1.3	0.0	0.0	19.8
18-1855 A/B	Leq,D	98.8		401.27	-63.1	5.5	-18.9	-1.2		0.0	0.0	0.0	0.0	21.3
18-1856 A/B	Leq,D	98.8		394.92	-62.9	5.5	-19.0	-1.2		0.0	0.0	0.0	0.0	21.2
18-1857 A/B	Leq,D	98.8		407.44	-63.2	5.5	-18.6	-1.2		0.0	0.0	0.0	0.0	21.3
18-1858 A/B	Leq,D	98.8		411.68	-63.3	5.4	-18.2	-1.2		0.0	0.0	0.0	0.0	21.5
18-PK 1802 Air Compressor Package	Leq,D	103.1		382.91	-62.7	5.7	-16.3	-0.6	-0.41	0.0	0.0	0.0	0.0	28.9
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	499.82	-65.0	5.5	-17.3	-1.2	-0.01	0.0	0.0	-2.7	0.0	28.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Air Compressor C 1	Leq,D	110.0	5	643.24	-67.2	5.7	-19.0	-1.2	-0.58	0.0	4.5	0.0	0.0	32.3
Air Compressor Pump	Leq,D	100.3		466.37	-64.4	5.5	-24.0	-3.5		0.0	0.0	0.0	0.0	13.9
Blower F 401	Leq,D	113.0		586.71	-66.4	5.5	-19.2	-0.7		0.0	0.0	0.0	0.0	32.2
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	291.28	-60.3	5.1	-23.6	-1.0		0.0	0.0	0.0	0.0	18.9
Boiler Feed Water Pump A	Leq,D	97.1	3	406.38	-63.2	5.4	-19.0	-1.2		0.0	0.0	0.0	0.0	19.2
Boiler Feed Water Pump B	Leq,D	97.1	3	404.62	-63.1	5.4	-19.0	-1.2		0.0	0.0	0.0	0.0	19.2
C370 A Motor	Leq,D	103.6	3	483.03	-64.7	5.1	-21.0	-1.5		0.0	0.1	0.0	0.0	21.7
C370 B Motor	Leq,D	108.6	3	473.37	-64.5	5.1	-21.2	-1.5		0.0	0.0	0.0	0.0	26.5
C370A	Leq,D	103.8	5	484.75	-64.7	5.1	-17.5	-1.4		0.0	0.0	0.0	0.0	25.3
C370B	Leq,D	103.8	5	475.13	-64.5	5.1	-18.1	-1.4		0.0	0.0	0.0	0.0	24.9
C-270 A	Leq,D	106.3	6	334.57	-61.5	4.8	-21.4	-1.2	-0.93	0.0	0.0	0.0	0.0	26.2
C-270 B	Leq,D	106.3	6	339.24	-61.6	4.9	-22.1	-1.3	-0.97	0.0	0.0	0.0	0.0	25.2
C-270 C	Leq,D	106.3	6	343.84	-61.7	4.9	-20.7	-1.1	-0.92	0.0	0.2	0.0	0.0	26.9
C-301 Compressor	Leq,D	106.8	3	328.34	-61.3	4.8	-17.9	-0.9	-0.90	0.0	1.7	0.0	0.0	32.3
C-301 Motor	Leq,D	106.8	4	331.83	-61.4	4.8	-19.4	-1.5	-1.16	0.0	0.9	0.0	0.0	29.1
C-351 Compressor	Leq,D	106.8	4	318.79	-61.1	4.8	-20.3	-1.0	-0.83	0.0	0.0	0.0	0.0	28.4
C-351 Motor	Leq,D	106.8	5	317.18	-61.0	4.5	-21.5	-1.6	-0.93	0.0	0.2	0.0	0.0	26.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	514.58	-65.2	5.6	-14.5	-0.7	-0.03	0.0	0.0	-33.5	0.0	26.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	629.21	-67.0	5.4	-18.7	-1.2	-0.75	0.5	0.4	0.0	0.0	23.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	627.50	-66.9	5.4	-12.8	-1.4	-0.83	0.0	0.0	0.0	0.0	23.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	639.30	-67.1	5.4	-21.6	-1.4	-0.75	-5.8	0.0	0.0	0.0	15.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	637.26	-67.1	5.4	-21.0	-1.3	-0.84	4.0	0.0	0.0	0.0	29.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	628.26	-67.0	5.4	-15.0	-1.3	-0.77	3.9	1.7	0.0	0.0	30.7
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	648.27	-67.2	5.4	-22.8	-1.9	-0.82	-7.8	0.0	0.0	0.0	5.2
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	563.78	-66.0	5.4	-19.1	-1.3		0.9	0.0	0.0	0.0	17.6
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	574.95	-66.2	5.3	-22.5	-1.7		-7.8	0.0	0.0	0.0	5.0
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	541.11	-65.7	5.1	-13.4	-1.1		1.0	0.0	0.0	0.0	26.5
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	557.24	-65.9	5.2	-22.4	-1.7		-7.8	7.5	0.0	0.0	15.6
Cooling Tower M 512	Leq,D	95.7		566.68	-66.1	5.6	-15.4	-2.0		0.0	0.0	0.0	0.0	17.8
Cooling Tower M 513	Leq,D	95.7		567.93	-66.1	5.6	-15.4	-2.0		0.0	2.4	0.0	0.0	20.2
Cooling Tower M 514	Leq,D	95.7		565.25	-66.0	5.6	-15.5	-2.0		0.0	0.0	0.0	0.0	17.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	427.68	-63.6	4.3	-12.7	-0.6		-1.5	0.0	0.0	0.0	21.6
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	457.05	-64.2	5.2	-13.4	-0.1		0.0	0.0	0.0	0.0	22.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	459.38	-64.2	5.3	-19.6	-0.2		0.0	1.1	0.0	0.0	15.5
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	458.10	-64.2	4.8	-11.1	-0.1		0.0	0.0	0.0	0.0	22.8
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	456.82	-64.2	5.2	-13.6	-0.1		0.0	3.7	0.0	0.0	24.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	459.14	-64.2	5.2	-16.1	-0.1		0.0	5.1	0.0	0.0	25.2
FD Motor	Leq,D	103.3	2	456.13	-64.2	5.3	-24.5	-3.4		0.0	4.2	0.0	0.0	20.8
Feed Compressor -B Motor	Leq,D	103.8	5	440.01	-63.9	5.0	-22.7	-2.4		0.0	0.0	0.0	0.0	19.8
Feed Compressor-A Compressor	Leq,D	104.0	5	455.24	-64.2	5.1	-17.6	-1.3		0.0	0.1	0.0	0.0	26.2
Feed Compressor-A Motor	Leq,D	103.8	6	452.88	-64.1	5.0	-20.4	-2.1		0.0	0.0	0.0	0.0	22.3
Feed Compressor-B Compressor	Leq,D	104.0	7	442.63	-63.9	5.1	-19.5	-1.3		0.0	0.0	0.0	0.0	24.4
H2S Compressor 18-C-271	Leq,D	105.3	6	626.17	-66.9	5.5	-19.5	-1.7	-0.24	0.0	0.0	0.0	0.0	22.5
Heater # 5-Heater	Leq,D	91.1	13	293.63	-60.3	5.1	-21.1	-0.7		0.0	0.0	0.0	0.0	17.1
Heater # 5-Heater	Leq,D	91.1	13	298.66	-60.5	5.1	-20.9	-0.7		0.0	0.0	0.0	0.0	17.2
Heater # 5-Heater	Leq,D	91.1	13	288.71	-60.2	5.1	-21.3	-0.7		0.0	0.0	0.0	0.0	17.1
Hydro Heater H-402	Leq,D	98.1		591.24	-66.4	5.6	-22.9	-1.4		0.0	0.0	0.0	0.0	12.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	440.71	-63.9	5.3	-20.5	-0.1		0.0	0.1	0.0	0.0	7.9
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	439.28	-63.8	5.3	-8.2	-0.1		0.0	0.0	0.0	0.0	20.4
ID Fan-ID Fan - North	Leq,D	92.2	8	442.10	-63.9	5.3	-16.7	-0.1		0.0	0.4	0.0	0.0	17.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	439.53	-63.9	5.3	-20.6	-0.1		0.0	0.0	0.0	0.0	12.2
ID Fan-ID Fan - South	Leq,D	92.3	9	440.17	-63.9	5.3	-7.5	-0.1		0.0	0.0	0.0	0.0	26.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	438.61	-63.8	5.3	-9.6	-0.1		0.0	0.0	0.0	0.0	23.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	440.57	-63.9	5.0	-8.4	-0.1		0.0	0.3	0.0	0.0	26.9
Motor & Pump P 56A/B	Leq,D	93.7		605.19	-66.6	5.6	-21.8	-2.4	-0.15	0.0	0.0	0.0	0.0	8.3
Motor & Pump P 120/121	Leq,D	96.2	2	636.72	-67.1	5.7	-23.4	-2.2	-0.26	0.0	0.1	0.0	0.0	9.1
Motor & Pump P 211/212	Leq,D	93.7		612.95	-66.7	5.7	-23.3	-2.9	-0.64	0.0	0.0	0.0	0.0	5.7
Motor & Pump P 215/214	Leq,D	94.6		615.21	-66.8	5.7	-21.9	-2.4	-0.64	0.0	0.0	0.0	0.0	8.6
Motor & Pump P 216	Leq,D	98.3		619.26	-66.8	5.6	-21.3	-2.4	-0.78	0.0	0.0	0.0	0.0	12.6
Motor & Pump P 217/218	Leq,D	93.7		613.90	-66.8	5.8	-23.5	-3.0	-0.65	0.0	0.0	0.0	0.0	5.5
Motor & Pump P 300	Leq,D	97.1	2	648.28	-67.2	5.7	-22.4	-2.0	-0.60	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 301	Leq,D	102.1	2	647.50	-67.2	5.7	-22.8	-2.0	-0.60	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 302	Leq,D	97.1	2	649.11	-67.2	5.7	-19.5	-1.8	-0.60	0.0	0.0	0.0	0.0	13.7
Motor & Pump P 303	Leq,D	97.1	2	649.90	-67.2	5.7	-13.7	-1.9	-0.60	0.0	0.2	0.0	0.0	19.5
Motor & Pump P 305	Leq,D	97.5	2	650.60	-67.3	5.7	-23.0	-2.1	-0.26	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 306	Leq,D	112.6	4	654.84	-67.3	5.6	-22.5	-2.1	-0.64	0.0	0.2	0.0	0.0	25.9
Motor & Pump P 307	Leq,D	102.1	2	645.26	-67.2	5.7	-24.3	-2.4	-0.58	0.0	0.6	0.0	0.0	13.9
Motor & Pump P 309	Leq,D	97.5	2	651.30	-67.3	5.7	-23.0	-2.1	-0.26	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 312	Leq,D	101.5	2	635.49	-67.1	5.7	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	18.8
Motor & Pump P 313	Leq,D	101.5	2	634.72	-67.0	5.7	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	18.8
Motor & Pump P 315	Leq,D	102.9	2	632.22	-67.0	5.7	-21.1	-1.8	-0.26	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 316	Leq,D	102.9	2	631.39	-67.0	5.7	-24.0	-2.3	-0.03	0.0	2.1	0.0	0.0	17.4
Motor & Pump P 317	Leq,D	102.9	2	630.48	-67.0	5.7	-24.5	-2.5		0.0	1.3	0.0	0.0	15.8
Motor & Pump P 318	Leq,D	100.2	1	632.60	-67.0	5.8	-20.9	-1.8	-0.25	0.0	0.0	0.0	0.0	15.9
Motor & Pump P 319	Leq,D	100.2	1	633.23	-67.0	5.8	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	17.5
Motor & Pump P 327	Leq,D	111.2	3	659.27	-67.4	5.7	-23.8	-3.3	-0.38	0.0	2.6	0.0	0.0	24.6
Motor & Pump P 328	Leq,D	109.9	5	652.02	-67.3	5.6	-23.4	-2.2	-0.60	0.0	0.0	0.0	0.0	22.1
Motor & Pump P 329	Leq,D	110.2	5	653.39	-67.3	5.6	-23.9	-2.4	-0.57	0.0	0.0	0.0	0.0	21.7
Motor & Pump P 451	Leq,D	93.7		587.42	-66.4	5.6	-22.1	-2.4		0.0	3.8	0.0	0.0	12.3
Motor & Pump P 453	Leq,D	93.7		580.30	-66.3	5.6	-23.5	-2.9		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 454	Leq,D	93.7		588.96	-66.4	5.6	-22.0	-2.4		0.0	0.0	0.0	0.0	8.6
Motor & Pump P 457	Leq,D	93.7		579.72	-66.3	5.6	-23.4	-2.8		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 458	Leq,D	93.7		586.36	-66.4	5.6	-22.1	-2.4		0.0	3.9	0.0	0.0	12.2
Motor & Pump P 459	Leq,D	93.7		589.35	-66.4	5.6	-21.9	-2.4		0.0	0.0	0.0	0.0	8.6
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		586.49	-66.4	5.6	-22.8	-2.6	-0.05	0.0	0.0	0.0	0.0	10.0
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		587.24	-66.4	5.6	-22.5	-2.5	-0.13	0.0	1.1	0.0	0.0	11.4
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		594.98	-66.5	5.7	-21.1	-2.3	-0.20	0.0	0.0	0.0	0.0	11.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		595.55	-66.5	5.7	-24.0	-3.3	-0.23	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 1601 A	Leq,D	96.3	2	561.54	-66.0	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3
Motor & Pump P 1601 B	Leq,D	96.3	2	560.16	-66.0	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3
Motor & Pump P 1602 A	Leq,D	96.3	2	559.03	-65.9	5.5	-16.5	-2.1		0.0	0.0	0.0	0.0	17.3
Motor & Pump P 1602 B	Leq,D	96.5	2	557.71	-65.9	5.5	-16.5	-2.1		0.0	0.0	0.0	0.0	17.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	578.42	-66.2	5.7	-24.7	-3.7	-0.20	0.0	0.0	0.0	0.0	7.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	580.68	-66.3	5.7	-16.2	-2.2	-0.19	0.0	0.0	0.0	0.0	17.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	581.80	-66.3	5.7	-16.2	-2.2	-0.19	0.0	0.0	0.0	0.0	17.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	587.39	-66.4	5.6	-22.3	-2.5	-0.22	0.0	1.2	0.0	0.0	12.2
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	588.19	-66.4	5.6	-24.6	-3.7		0.0	0.0	0.0	0.0	7.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	578.17	-66.2	5.7	-23.0	-2.8	-0.03	0.0	0.0	0.0	0.0	9.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	580.21	-66.3	5.7	-24.6	-3.6	-0.12	0.0	0.0	0.0	0.0	7.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	583.73	-66.3	5.7	-16.2	-2.2	-0.18	0.0	0.0	0.0	0.0	17.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	582.15	-66.3	5.7	-17.9	-2.3	-0.14	0.0	0.0	0.0	0.0	15.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	621.12	-66.9	5.5	-19.2	-1.7	-0.10	0.0	0.0	0.0	0.0	21.8
P-2 A/B	Leq,D	98.5		216.40	-57.7	5.5	-23.9	-0.9		0.0	4.2	0.0	0.0	25.6
P-50 A/B	Leq,D	98.1		259.45	-59.3	5.5	-21.7	-0.8	-0.09	0.0	1.5	0.0	0.0	23.4
P-51 A/B	Leq,D	98.1		257.93	-59.2	5.5	-23.9	-1.1	-0.09	0.0	0.1	0.0	0.0	19.5
P-060 A/B	Leq,D	98.1		263.69	-59.4	5.6	-24.3	-1.2	-0.10	0.0	0.6	0.0	0.0	19.2
P-63	Leq,D	98.5		243.20	-58.7	5.5	-24.7	-1.2		0.0	0.0	0.0	0.0	19.5
P-70 A/B	Leq,D	98.1		261.78	-59.4	5.5	-23.1	-1.0	-0.09	0.0	0.0	0.0	0.0	20.1
P-73 A/B	Leq,D	98.5		220.63	-57.9	5.5	-23.9	-0.9		0.0	4.2	0.0	0.0	25.5
P-251 A/B	Leq,D	98.2		395.75	-62.9	5.7	-19.7	-1.2	-1.62	0.0	0.0	0.0	0.0	18.5
P-252 A/B	Leq,D	98.2		395.79	-62.9	5.7	-19.5	-1.1	-1.64	0.0	0.0	0.0	0.0	18.7
P-253	Leq,D	98.2		388.36	-62.8	5.7	-19.6	-1.1	-1.60	0.0	0.0	0.0	0.0	18.8
P-254 A/B	Leq,D	98.2		384.70	-62.7	5.7	-19.9	-1.1	-1.55	0.0	0.1	0.0	0.0	18.8
P-255 A/B	Leq,D	98.2		388.05	-62.8	5.7	-19.8	-1.1	-1.57	0.0	0.2	0.0	0.0	18.8
P-255 A/B	Leq,D	98.2		402.89	-63.1	5.7	-19.5	-1.2	-1.66	0.0	0.0	0.0	0.0	18.5
P-256 A/B	Leq,D	98.2		392.41	-62.9	5.7	-19.7	-1.1	-1.60	0.0	0.2	0.0	0.0	18.7
P-259 A/B	Leq,D	98.2		399.21	-63.0	5.7	-19.6	-1.2	-1.63	0.0	0.0	0.0	0.0	18.5
P-260	Leq,D	99.1		414.77	-63.3	5.7	-19.2	-1.2	-1.74	0.0	0.3	0.0	0.0	19.6
P-261 A/B	Leq,D	98.0		438.01	-63.8	5.7	-18.7	-1.3	-1.82	0.0	0.0	0.0	0.0	18.1
P-262 A/B	Leq,D	99.1		423.14	-63.5	5.7	-19.0	-1.2	-1.78	0.0	0.4	0.0	0.0	19.6
P-263 A/B	Leq,D	99.4		419.19	-63.4	5.7	-19.1	-1.2	-1.77	0.0	0.3	0.0	0.0	19.9
P-270 A/B	Leq,D	98.5		344.33	-61.7	5.7	-22.2	-1.1	-1.15	0.0	0.0	0.0	0.0	18.0
P-271 A/B	Leq,D	98.2		375.15	-62.5	5.7	-20.1	-1.1	-1.47	0.0	0.2	0.0	0.0	19.0
P-272 A/B	Leq,D	98.2		379.78	-62.6	5.7	-20.0	-1.1	-1.51	0.0	0.1	0.0	0.0	18.9
P-273 A/B	Leq,D	98.5		347.67	-61.8	5.7	-22.0	-1.1	-1.21	0.0	0.0	0.0	0.0	17.9
P-275 A/B/C	Leq,D	98.2		377.53	-62.5	5.7	-21.2	-1.2	-1.23	0.0	0.0	0.0	0.0	17.8
P-305	Leq,D	99.3		314.37	-60.9	5.6	-22.7	-1.1	-0.72	0.0	2.7	0.0	0.0	22.2
P-306	Leq,D	100.8		304.64	-60.7	5.6	-22.9	-1.1	-0.67	0.0	0.0	0.0	0.0	21.1
P-309	Leq,D	99.3		312.02	-60.9	5.6	-22.7	-1.1	-0.71	0.0	2.7	0.0	0.0	22.2
P-328	Leq,D	100.8		298.91	-60.5	5.6	-23.1	-1.1	-0.63	0.0	0.0	0.0	0.0	21.1
P-329	Leq,D	100.8		301.73	-60.6	5.6	-23.0	-1.1	-0.66	0.0	0.0	0.0	0.0	21.1
P-353	Leq,D	98.5		315.46	-61.0	5.3	-22.0	-1.0	-1.09	0.0	2.6	0.0	0.0	21.3
P-358 A/B	Leq,D	99.4		303.67	-60.6	5.6	-23.7	-1.2	-0.96	0.0	0.1	0.0	0.0	18.6
P-359 A/B	Leq,D	99.4		301.97	-60.6	5.6	-23.8	-1.2	-0.95	0.0	0.1	0.0	0.0	18.5
P-360 A/B	Leq,D	99.4		298.98	-60.5	5.6	-23.8	-1.2	-0.95	0.0	0.0	0.0	0.0	18.6
P-361A	Leq,D	98.1		273.62	-59.7	5.2	-23.4	-1.1	-0.12	0.0	0.0	0.0	0.0	19.0
P-371 A/B	Leq,D	98.0		525.11	-65.4	5.6	-15.6	-1.5		0.0	0.0	0.0	0.0	21.1
P-373 A/B	Leq,D	98.0		508.09	-65.1	5.6	-21.1	-1.5		0.0	0.0	0.0	0.0	15.8
P-374 A/B	Leq,D	98.0		511.57	-65.2	5.6	-20.9	-1.5		0.0	0.0	0.0	0.0	16.1
P-375 A/B	Leq,D	98.0		519.53	-65.3	5.6	-15.9	-1.5		0.0	0.0	0.0	0.0	20.9
P-376	Leq,D	98.0		513.79	-65.2	5.6	-16.1	-1.5		0.0	0.0	0.0	0.0	20.8
P-376 A/B	Leq,D	98.0		504.41	-65.0	5.6	-21.5	-1.5		0.0	0.0	0.0	0.0	15.5
P-377	Leq,D	98.0		515.87	-65.2	5.6	-16.0	-1.5		0.0	0.0	0.0	0.0	20.9
P-1101 A	Leq,D	98.9		232.33	-58.3	5.1	-24.0	-1.0		0.0	0.0	0.0	0.0	20.7
P-1103	Leq,D	98.9		233.70	-58.4	5.1	-23.9	-1.0		0.0	0.0	0.0	0.0	20.8
P-1105 A/B/C	Leq,D	98.9		227.29	-58.1	5.1	-24.2	-1.0		0.0	0.0	0.0	0.0	20.7
P-1800	Leq,D	98.9		187.94	-56.5	5.4	-24.7	-0.9		0.0	0.0	0.0	0.0	22.1
P-1801	Leq,D	98.9		142.61	-54.1	5.2	-9.3	-0.5		0.0	5.0	0.0	0.0	45.2
P-1802	Leq,D	98.9		143.72	-54.1	5.2	-9.5	-0.5		0.0	4.3	0.0	0.0	44.2
P-1803	Leq,D	99.1		269.88	-59.6	5.6	-23.2	-1.0		0.0	0.0	0.0	0.0	20.8
P-1804	Leq,D	99.1		250.56	-59.0	5.5	-24.4	-1.1		0.0	1.1	0.0	0.0	21.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1805	Leq,D	99.1		247.86	-58.9	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.6
P-1806	Leq,D	99.1		290.74	-60.3	5.6	-23.0	-1.1	-0.35	0.0	1.0	0.0	0.0	21.0
P-1809 A	Leq,D	98.9		177.96	-56.0	5.3	-24.7	-0.9		0.0	2.2	0.0	0.0	24.8
P-1810 A/B/C	Leq,D	99.0		252.01	-59.0	5.5	-24.2	-1.1		0.0	2.4	0.0	0.0	22.7
P-1811 A/B	Leq,D	99.1		284.70	-60.1	5.6	-23.1	-1.1	-0.22	0.0	0.0	0.0	0.0	20.3
P-1811 A/B	Leq,D	99.1		244.49	-58.8	5.5	-24.1	-1.1		0.0	0.3	0.0	0.0	21.0
P-1847 A/B	Leq,D	99.4		317.29	-61.0	5.6	-23.7	-1.2		0.0	0.0	0.0	0.0	19.1
P-1849 A/B	Leq,D	99.4		312.37	-60.9	5.6	-24.1	-1.3		0.0	0.0	0.0	0.0	18.8
P-1853	Leq,D	99.1		363.22	-62.2	5.7	-21.4	-1.1	-0.56	0.0	0.0	0.0	0.0	19.5
Piping Furnace Tanks	Leq,D	87.1	72	472.87	-64.5	4.5	-20.2	-4.8		0.0	0.9	0.0	0.0	2.9
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	476.10	-64.5	4.6	-20.7	-4.8		0.0	0.5	0.0	0.0	13.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	515.44	-65.2	5.1	-24.5	-3.8		0.0	0.5	0.0	0.0	26.7
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	512.29	-65.2	5.1	-24.8	-9.1		0.0	0.4	0.0	0.0	21.6
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	239.39	-58.6	3.7	-16.6	-0.8		0.0	0.0	0.0	0.0	38.2
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	269.92	-59.6	3.7	-22.8	-1.1		0.0	0.7	0.0	0.0	32.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	282.08	-60.0	3.8	-23.7	-1.2		0.0	0.2	0.0	0.0	23.1
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	239.46	-58.6	3.6	-19.6	-0.8		0.0	0.2	0.0	0.0	36.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	270.12	-59.6	3.7	-21.8	-1.0		0.0	0.1	0.0	0.0	25.4
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	282.08	-60.0	3.7	-23.9	-1.2		0.0	0.2	0.0	0.0	22.5
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	279.23	-59.9	3.7	-22.6	-1.1		0.0	0.0	0.0	0.0	26.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	261.72	-59.3	3.7	-22.4	-1.0		0.0	0.2	0.0	0.0	27.2
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	255.82	-59.2	3.0	-17.0	-0.8		0.0	0.0	0.0	0.0	39.2
PSA Pipe 3" Lagging	Leq,D	80.6	11	500.14	-65.0	3.7	-15.6	-2.9		0.0	0.0	0.0	0.0	0.8
PSA Skid Additional Piping w NC	Leq,D	116.6	57	518.07	-65.3	5.1	-24.6	-3.8		0.0	0.6	0.0	0.0	28.6
Reformer-Burner Reformer East	Leq,D	97.3	269	471.80	-64.5	3.8	-22.5	-2.1		0.0	0.3	0.0	0.0	15.3
Reformer-Burner Reformer North	Leq,D	95.9	192	476.04	-64.5	3.8	-23.4	-2.3		0.0	0.0	0.0	0.0	9.4
Reformer-Burner Reformer South	Leq,D	95.8	191	460.06	-64.2	3.8	-17.8	-1.6		0.0	1.2	0.0	0.0	20.0
Reformer-Burner Reformer West	Leq,D	97.3	268	464.39	-64.3	3.8	-14.4	-1.5		0.0	0.0	0.0	0.0	23.9
RFG A from battery to process	Leq,D	99.4	87	470.42	-64.4	4.6	-20.8	-4.8		0.0	0.4	0.0	0.0	14.4
RFG A from battery to process w NC	Leq,D	115.2	42	513.73	-65.2	5.1	-24.7	-8.6		0.0	0.5	0.0	0.0	22.4
Stack Noise	Leq,D	108.4		437.67	-63.8	3.0	-2.7	-1.6		-5.8	0.0	0.0	0.0	37.5
Steam Turbine-Facade 01	Leq,D	99.6	29	512.84	-65.2	5.4	-19.4	-2.6		0.0	0.5	0.0	0.0	18.2
Steam Turbine-Facade 02	Leq,D	96.2	13	510.21	-65.1	5.4	-19.4	-2.6		0.0	2.1	0.0	0.0	16.6
Steam Turbine-Facade 03	Leq,D	99.6	29	514.61	-65.2	5.4	-24.3	-5.4		0.0	8.3	0.0	0.0	18.3
Steam Turbine-Facade 04	Leq,D	96.2	13	517.26	-65.3	5.4	-24.3	-5.4		0.0	5.3	0.0	0.0	12.0
Steam Turbine-Roof 01	Leq,D	99.7	30	513.79	-65.2	5.1	-18.9	-2.7		0.0	3.0	0.0	0.0	21.0
Tank Farm Pump 1	Leq,D	99.0	3	341.07	-61.6	5.4	-23.4	-1.8		0.0	0.6	0.0	0.0	18.2
Tank Farm Pump 2	Leq,D	99.0	3	325.86	-61.3	5.4	-23.9	-1.9		0.0	0.0	0.0	0.0	17.3
Tank Farm Pump 3	Leq,D	99.0	3	321.59	-61.1	5.4	-24.1	-2.0		0.0	0.0	0.0	0.0	17.1
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	700.13	-67.9	5.1	-14.6	-1.9	0.00	0.0	0.0	-11.8	0.0	21.4
XF-1502 Splitter Area 1	Leq,D	104.5		580.58	-66.3	4.3	-13.0	-2.0	-0.06	-2.9	0.0	0.0	0.0	24.6
XF-1502 Splitter Area 2	Leq,D	104.5		578.86	-66.2	4.3	-13.0	-2.0	-0.05	-2.9	0.0	0.0	0.0	24.6
XF-1504 Splitter Area 1	Leq,D	104.5		576.67	-66.2	4.3	-13.1	-2.0	-0.02	-2.9	0.0	0.0	0.0	24.6
XF-1504 Splitter Area 2	Leq,D	104.5		574.94	-66.2	4.3	-13.1	-1.9	-0.02	-2.9	0.0	0.0	0.0	24.6
XF 251, 250, 271, 270	Leq,D	101.1	128	376.75	-62.5	3.8	-13.2	-0.5	0.00	-1.3	0.0	0.0	0.0	27.3
XF 260, 261A, 261 B	Leq,D	99.9	97	426.50	-63.6	4.0	-12.7	-0.6	0.00	-1.3	0.0	0.0	0.0	25.7
XF 304, XF 321	Leq,D	110.5	56	652.47	-67.3	4.5	-14.9	-1.0	-0.04	-1.5	0.0	0.0	0.0	30.3
XF 313, XF 314	Leq,D	113.0	18	666.89	-67.5	4.8	-12.7	-1.5	-0.02	-2.6	0.0	0.0	0.0	33.5

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
XF 335-1, XF 335-2	Leq,D	113.4	54	657.96	-67.4	4.5	-14.8	-1.3	-0.04	-1.7	0.0	0.0	0.0	32.8
XF 353A/B	Leq,D	95.4	35	294.25	-60.4	3.2	-13.2	-0.4	-0.01	-1.4	0.1	0.0	0.0	23.3
XF 353A/B	Leq,D	95.4	35	313.41	-60.9	3.3	-7.5	-0.7	0.00	-2.2	0.0	0.0	0.0	27.4
XF 354A/B	Leq,D	95.4	35	315.72	-61.0	3.3	-15.9	-0.4	0.00	-1.4	0.0	0.0	0.0	20.1
XF 503	Leq,D	113.0	21	614.23	-66.8	4.8	-11.4	-1.5	-0.47	-2.8	0.0	0.0	0.0	34.9
XF - 1601	Leq,D	96.6		559.20	-65.9	3.4	-9.1	-1.0		-1.2	0.0	0.0	0.0	22.7
XF - 1602	Leq,D	96.6		553.97	-65.9	3.3	-9.3	-0.9		-1.2	0.0	0.0	0.0	22.6
XF Module 1510	Leq,D	108.3		582.32	-66.3	4.4	-21.2	-2.3	-0.02	-2.9	0.0	0.0	0.0	20.1
XF Module 1519	Leq,D	109.0		584.74	-66.3	4.4	-13.2	-2.0	-0.25	-2.9	0.0	0.0	0.0	28.9
xxxx xxxx xxxx xxxx	Leq,D		228								6.6			26.7
xxxx xxxx xxxx xxxx	Leq,D		520								3.5			45.3
xxxx xxxx xxxx xxxx	Leq,D		1341								2.2			60.3
xxxx xxxx xxxx xxxx	Leq,D		450								4.4			28.5
Receiver S-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 57.0 dB(A) Ld 7-19 dB(A) Leq,N 57.0 dB(A) Le 19-22 dB(A) CNEL 63.7 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	379.94	-62.6	5.2	-24.8	-2.8		0.0	1.3	0.0	0.0	20.7
18-1855 A/B	Leq,D	98.8		329.47	-61.3	5.4	-23.7	-1.3	-0.20	0.0	0.0	0.0	0.0	17.7
18-1856 A/B	Leq,D	98.8		323.51	-61.2	5.4	-23.4	-1.2	-0.25	0.0	0.1	0.0	0.0	18.2
18-1857 A/B	Leq,D	98.8		335.28	-61.5	5.4	-23.7	-1.3	-0.20	0.0	0.0	0.0	0.0	17.6
18-1858 A/B	Leq,D	98.8		339.28	-61.6	5.3	-23.6	-1.3	-0.13	0.0	0.0	0.0	0.0	17.4
18-PK 1802 Air Compressor Package	Leq,D	103.1		310.65	-60.8	5.6	-21.6	-0.6	-0.58	0.0	0.0	0.0	0.0	25.2
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	416.02	-63.4	5.4	-19.6	-1.1	0.00	0.0	0.0	-2.7	0.0	27.6
Air Compressor C 1	Leq,D	110.0	5	572.66	-66.2	5.7	-23.7	-1.7	-0.37	0.0	4.3	0.0	0.0	28.1
Air Compressor Pump	Leq,D	100.3		390.67	-62.8	5.4	-24.6	-3.8	-0.09	0.0	0.0	0.0	0.0	14.3
Blower F 401	Leq,D	113.0		510.08	-65.1	5.4	-21.6	-0.7	-0.35	0.0	0.0	0.0	0.0	30.7
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	210.40	-57.5	4.7	-24.3	-0.8		0.0	0.0	0.0	0.0	20.8
Boiler Feed Water Pump A	Leq,D	97.1	3	337.42	-61.6	5.3	-23.4	-1.4		0.0	0.0	0.0	0.0	16.2
Boiler Feed Water Pump B	Leq,D	97.1	3	335.33	-61.5	5.3	-23.4	-1.4		0.0	0.0	0.0	0.0	16.2
C370 A Motor	Leq,D	103.6	3	410.68	-63.3	4.9	-23.6	-1.8	-0.76	0.0	0.0	0.0	0.0	19.2
C370 B Motor	Leq,D	108.6	3	401.45	-63.1	4.9	-23.7	-1.8	-1.35	0.0	0.0	0.0	0.0	23.6
C370A	Leq,D	103.8	5	412.76	-63.3	5.0	-23.5	-1.8		0.0	0.0	0.0	0.0	20.2
C370B	Leq,D	103.8	5	403.58	-63.1	5.0	-23.3	-1.7	-0.83	0.0	0.0	0.0	0.0	19.8
C-270 A	Leq,D	106.3	6	257.88	-59.2	4.5	-23.6	-1.3	-0.79	0.0	0.0	0.0	0.0	25.8
C-270 B	Leq,D	106.3	6	262.36	-59.4	4.5	-23.7	-1.3	-0.82	0.0	0.0	0.0	0.0	25.6
C-270 C	Leq,D	106.3	6	266.80	-59.5	4.5	-23.4	-1.3	-0.73	0.0	0.1	0.0	0.0	26.0
C-301 Compressor	Leq,D	106.8	3	255.04	-59.1	4.5	-23.5	-1.3	-0.67	0.0	0.0	0.0	0.0	26.8
C-301 Motor	Leq,D	106.8	4	258.32	-59.2	4.5	-24.3	-2.2	-0.86	0.0	0.0	0.0	0.0	24.6
C-351 Compressor	Leq,D	106.8	4	243.59	-58.7	4.4	-23.1	-1.2	-0.80	0.0	0.0	0.0	0.0	27.5
C-351 Motor	Leq,D	106.8	5	241.46	-58.6	4.0	-24.1	-2.0	-0.75	0.0	0.0	0.0	0.0	25.3
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	429.80	-63.7	5.5	-17.4	-0.5	0.00	0.0	0.0	-33.5	0.0	25.1
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	554.08	-65.9	5.3	-22.9	-1.4	-0.79	0.8	0.5	0.0	0.0	20.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	552.74	-65.8	5.3	-22.2	-1.6	-0.81	0.0	0.0	0.0	0.0	15.3
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	564.40	-66.0	5.3	-23.7	-1.7	-0.77	-6.3	0.0	0.0	0.0	13.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	561.78	-66.0	5.3	-23.5	-1.6	-0.76	3.7	0.0	0.0	0.0	27.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	553.32	-65.9	5.3	-23.2	-1.5	-0.79	3.6	2.9	0.0	0.0	24.2
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	572.84	-66.2	5.3	-23.8	-2.1	-0.82	-7.8	0.0	0.0	0.0	5.0
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	490.94	-64.8	5.3	-22.5	-1.5		1.2	0.0	0.0	0.0	15.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	501.69	-65.0	5.2	-23.7	-1.9		-7.8	0.0	0.0	0.0	4.6
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	469.10	-64.4	5.0	-20.3	-1.1		1.4	0.0	0.0	0.0	21.1

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	484.56	-64.7	5.1	-23.4	-1.8		-7.8	4.7	0.0	0.0	12.8
Cooling Tower M 512	Leq,D	95.7		493.21	-64.9	5.5	-23.0	-1.8		0.0	2.3	0.0	0.0	13.9
Cooling Tower M 513	Leq,D	95.7		494.41	-64.9	5.5	-23.0	-1.8		0.0	2.4	0.0	0.0	13.9
Cooling Tower M 514	Leq,D	95.7		491.83	-64.8	5.5	-23.0	-1.8		0.0	0.0	0.0	0.0	11.5
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	360.82	-62.1	3.9	-20.2	-0.6		-1.4	0.0	0.0	0.0	15.3
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	394.03	-62.9	5.1	-16.6	-0.1		0.0	0.1	0.0	0.0	20.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	396.46	-63.0	5.1	-18.1	-0.1		0.0	2.4	0.0	0.0	19.5
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	394.98	-62.9	4.6	-15.6	-0.1	0.00	0.0	0.0	0.0	0.0	19.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	393.49	-62.9	5.1	-16.8	-0.1	0.00	0.0	1.0	0.0	0.0	19.5
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	395.91	-62.9	5.1	-18.1	-0.1	0.00	0.0	1.1	0.0	0.0	20.4
FD Motor	Leq,D	103.3	2	393.21	-62.9	5.2	-24.5	-3.0		0.0	2.3	0.0	0.0	20.4
Feed Compressor -B Motor	Leq,D	103.8	5	368.65	-62.3	4.8	-24.5	-2.9	-1.31	0.0	0.0	0.0	0.0	17.6
Feed Compressor-A Compressor	Leq,D	104.0	5	383.69	-62.7	5.0	-23.3	-1.6		0.0	0.1	0.0	0.0	21.4
Feed Compressor-A Motor	Leq,D	103.8	6	380.88	-62.6	4.9	-24.2	-2.8	-0.48	0.0	0.0	0.0	0.0	18.6
Feed Compressor-B Compressor	Leq,D	104.0	7	371.80	-62.4	5.0	-23.4	-1.6	-0.63	0.0	0.0	0.0	0.0	20.9
H2S Compressor 18-C-271	Leq,D	105.3	6	553.52	-65.9	5.5	-23.3	-2.1	-0.22	0.0	0.0	0.0	0.0	19.3
Heater # 5-Heater	Leq,D	91.1	13	212.98	-57.6	4.8	-22.0	-0.6		0.0	0.0	0.0	0.0	18.8
Heater # 5-Heater	Leq,D	91.1	13	217.95	-57.8	4.8	-21.8	-0.6		0.0	0.0	0.0	0.0	18.8
Heater # 5-Heater	Leq,D	91.1	13	208.13	-57.4	4.8	-22.1	-0.6		0.0	0.0	0.0	0.0	18.8
Hydro Heater H-402	Leq,D	98.1		516.95	-65.3	5.6	-23.8	-1.5		0.0	0.0	0.0	0.0	13.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	377.83	-62.5	5.2	-17.1	-0.1		0.0	0.0	0.0	0.0	12.5
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	376.17	-62.5	5.2	-15.6	-0.1		0.0	0.4	0.0	0.0	14.7
ID Fan-ID Fan - North	Leq,D	92.2	8	379.15	-62.6	5.2	-17.8	-0.1		0.0	0.2	0.0	0.0	17.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	376.70	-62.5	5.2	-20.9	-0.1		0.0	0.0	0.0	0.0	13.1
ID Fan-ID Fan - South	Leq,D	92.3	9	376.89	-62.5	5.2	-15.7	-0.1		0.0	0.0	0.0	0.0	19.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	375.63	-62.5	5.2	-15.7	-0.1		0.0	0.0	0.0	0.0	18.3
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	377.54	-62.5	4.9	-15.5	-0.1		0.0	0.1	0.0	0.0	20.8
Motor & Pump P 56A/B	Leq,D	93.7		531.61	-65.5	5.6	-24.1	-3.0	-0.16	0.0	1.4	0.0	0.0	7.8
Motor & Pump P 120/121	Leq,D	96.2	2	565.39	-66.0	5.6	-23.8	-2.0	-0.62	0.0	1.2	0.0	0.0	10.5
Motor & Pump P 211/212	Leq,D	93.7		537.45	-65.6	5.6	-23.9	-3.0	-0.63	0.0	0.0	0.0	0.0	6.2
Motor & Pump P 215/214	Leq,D	94.6		539.98	-65.6	5.6	-24.0	-3.0	-0.64	0.0	0.0	0.0	0.0	7.1
Motor & Pump P 216	Leq,D	98.3		543.63	-65.7	5.6	-23.8	-2.9	-0.79	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 217/218	Leq,D	93.7		538.50	-65.6	5.7	-24.3	-3.2	-0.65	0.0	0.0	0.0	0.0	5.5
Motor & Pump P 300	Leq,D	97.1	2	576.68	-66.2	5.7	-24.3	-2.2	-0.60	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 301	Leq,D	102.1	2	575.79	-66.2	5.7	-24.4	-2.2	-0.60	0.0	0.0	0.0	0.0	14.4
Motor & Pump P 302	Leq,D	97.1	2	577.62	-66.2	5.7	-24.2	-2.2	-0.61	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 303	Leq,D	97.1	2	578.49	-66.2	5.6	-23.7	-2.0	-0.62	0.0	0.0	0.0	0.0	10.1
Motor & Pump P 305	Leq,D	97.5	2	579.27	-66.2	5.6	-23.7	-2.0	-0.62	0.0	0.0	0.0	0.0	10.5
Motor & Pump P 306	Leq,D	112.6	4	584.05	-66.3	5.6	-24.4	-2.8	-0.27	0.0	0.3	0.0	0.0	24.7
Motor & Pump P 307	Leq,D	102.1	2	573.27	-66.2	5.7	-24.6	-2.3	-0.52	0.0	1.0	0.0	0.0	15.2
Motor & Pump P 309	Leq,D	97.5	2	580.06	-66.3	5.6	-23.6	-2.0	-0.62	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 312	Leq,D	101.5	2	562.24	-66.0	5.7	-23.6	-2.0	-0.26	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 313	Leq,D	101.5	2	561.37	-66.0	5.7	-21.8	-1.7	-0.26	0.0	0.0	0.0	0.0	17.5
Motor & Pump P 315	Leq,D	102.9	2	558.50	-65.9	5.7	-24.5	-2.3		0.0	0.0	0.0	0.0	15.9
Motor & Pump P 316	Leq,D	102.9	2	557.56	-65.9	5.7	-24.6	-2.3		0.0	0.1	0.0	0.0	15.8
Motor & Pump P 317	Leq,D	102.9	2	556.54	-65.9	5.6	-24.6	-2.3		0.0	0.9	0.0	0.0	16.6
Motor & Pump P 318	Leq,D	100.2	1	559.01	-65.9	5.7	-24.0	-2.1	-0.26	0.0	0.0	0.0	0.0	13.7
Motor & Pump P 319	Leq,D	100.2	1	559.72	-66.0	5.7	-23.9	-2.0	-0.26	0.0	0.0	0.0	0.0	13.8
Motor & Pump P 327	Leq,D	111.2	3	588.93	-66.4	5.7	-24.7	-3.5	-0.50	0.0	2.9	0.0	0.0	24.7
Motor & Pump P 328	Leq,D	109.9	5	580.89	-66.3	5.6	-23.2	-2.0	-0.62	0.0	0.0	0.0	0.0	23.4
Motor & Pump P 329	Leq,D	110.2	5	582.43	-66.3	5.6	-24.4	-2.3	-0.52	0.0	0.1	0.0	0.0	22.3
Motor & Pump P 451	Leq,D	93.7		512.77	-65.2	5.6	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 453	Leq,D	93.7		505.05	-65.1	5.5	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 454	Leq,D	93.7		514.29	-65.2	5.6	-24.2	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 457	Leq,D	93.7		504.39	-65.0	5.5	-24.3	-3.0		0.0	0.0	0.0	0.0	6.8
Motor & Pump P 458	Leq,D	93.7		511.74	-65.2	5.6	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		514.74	-65.2	5.6	-24.2	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		514.03	-65.2	5.6	-24.3	-3.1	-0.03	0.0	1.0	0.0	0.0	10.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		514.88	-65.2	5.6	-24.3	-3.1	-0.10	0.0	1.4	0.0	0.0	10.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		525.13	-65.4	5.6	-24.1	-3.0	-0.21	0.0	0.0	0.0	0.0	8.3
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		525.78	-65.4	5.6	-24.1	-3.0	-0.21	0.0	0.0	0.0	0.0	8.3
Motor & Pump P 1601 A	Leq,D	96.3	2	490.14	-64.8	5.5	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6
Motor & Pump P 1601 B	Leq,D	96.3	2	488.83	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6
Motor & Pump P 1602 A	Leq,D	96.3	2	487.73	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6
Motor & Pump P 1602 B	Leq,D	96.5	2	486.46	-64.7	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	506.31	-65.1	5.6	-24.8	-3.4	-0.20	0.0	0.0	0.0	0.0	8.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	508.89	-65.1	5.6	-24.3	-3.0	-0.20	0.0	0.0	0.0	0.0	9.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	510.17	-65.1	5.6	-24.0	-2.9	-0.20	0.0	0.0	0.0	0.0	9.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	515.14	-65.2	5.6	-24.3	-3.1	-0.18	0.0	1.4	0.0	0.0	10.9
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	516.06	-65.2	5.6	-24.3	-3.1	-0.25	0.0	0.6	0.0	0.0	10.1
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	507.14	-65.1	5.6	-24.8	-3.4	-0.04	0.0	0.0	0.0	0.0	8.6
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	509.08	-65.1	5.6	-23.5	-2.6	-0.09	0.0	0.0	0.0	0.0	10.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	512.44	-65.2	5.6	-22.9	-2.4	-0.19	0.0	0.0	0.0	0.0	11.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	510.93	-65.2	5.6	-22.9	-2.4	-0.14	0.0	0.0	0.0	0.0	11.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	551.56	-65.8	5.5	-23.4	-2.1	-0.19	0.0	0.0	0.0	0.0	18.1
P-2 A/B	Leq,D	98.5		142.96	-54.1	5.2	-24.6	-0.7		0.0	0.9	0.0	0.0	25.2
P-50 A/B	Leq,D	98.1		186.65	-56.4	5.4	-24.5	-0.9	-0.10	0.0	0.0	0.0	0.0	21.5
P-51 A/B	Leq,D	98.1		184.48	-56.3	5.4	-24.6	-0.9	-0.10	0.0	1.3	0.0	0.0	22.8
P-060 A/B	Leq,D	98.1		192.52	-56.7	5.4	-24.3	-0.9	-0.10	0.0	0.0	0.0	0.0	21.5
P-63	Leq,D	98.5		166.13	-55.4	5.3	-24.8	-0.9		0.0	0.8	0.0	0.0	23.6
P-70 A/B	Leq,D	98.1		189.87	-56.6	5.4	-24.3	-0.9	-0.10	0.0	0.0	0.0	0.0	21.7
P-73 A/B	Leq,D	98.5		146.78	-54.3	5.2	-24.6	-0.7		0.0	0.8	0.0	0.0	24.8
P-251 A/B	Leq,D	98.2		318.81	-61.1	5.6	-23.6	-1.2	-1.21	0.0	0.0	0.0	0.0	16.8
P-252 A/B	Leq,D	98.2		319.84	-61.1	5.6	-23.8	-1.2	-1.38	0.0	0.0	0.0	0.0	16.3
P-253	Leq,D	98.2		312.69	-60.9	5.6	-23.7	-1.2	-1.34	0.0	0.0	0.0	0.0	16.7
P-254 A/B	Leq,D	98.2		308.13	-60.8	5.6	-23.7	-1.2	-1.28	0.0	0.0	0.0	0.0	16.9
P-255 A/B	Leq,D	98.2		311.37	-60.9	5.6	-23.6	-1.2	-1.30	0.0	0.0	0.0	0.0	16.8
P-255 A/B	Leq,D	98.2		325.75	-61.2	5.6	-23.5	-1.2	-0.97	0.0	0.0	0.0	0.0	16.9
P-256 A/B	Leq,D	98.2		315.59	-61.0	5.6	-23.6	-1.2	-1.28	0.0	0.0	0.0	0.0	16.7
P-259 A/B	Leq,D	98.2		322.18	-61.2	5.6	-23.5	-1.2	-1.09	0.0	0.0	0.0	0.0	16.8
P-260	Leq,D	99.1		338.20	-61.6	5.7	-23.4	-1.3	-1.49	0.0	0.0	0.0	0.0	17.0
P-261 A/B	Leq,D	98.0		360.77	-62.1	5.7	-23.1	-1.3	-1.30	0.0	0.0	0.0	0.0	15.8
P-262 A/B	Leq,D	99.1		346.32	-61.8	5.7	-23.3	-1.3	-1.55	0.0	0.0	0.0	0.0	16.9
P-263 A/B	Leq,D	99.4		342.50	-61.7	5.7	-23.4	-1.3	-1.52	0.0	0.0	0.0	0.0	17.2
P-270 A/B	Leq,D	98.5		269.67	-59.6	5.6	-23.8	-1.1	-1.51	0.0	0.0	0.0	0.0	18.0
P-271 A/B	Leq,D	98.2		298.92	-60.5	5.6	-23.8	-1.2	-1.21	0.0	0.0	0.0	0.0	17.1
P-272 A/B	Leq,D	98.2		303.38	-60.6	5.6	-23.8	-1.2	-1.24	0.0	0.0	0.0	0.0	17.0
P-273 A/B	Leq,D	98.5		272.84	-59.7	5.6	-23.9	-1.1	-1.52	0.0	0.0	0.0	0.0	17.8
P-275 A/B/C	Leq,D	98.2		302.34	-60.6	5.6	-23.8	-1.2	-1.27	0.0	0.0	0.0	0.0	16.9
P-305	Leq,D	99.3		234.78	-58.4	5.5	-23.7	-0.9	-0.53	0.0	0.0	0.0	0.0	21.3
P-306	Leq,D	100.8		225.25	-58.0	5.5	-23.8	-0.9	-0.49	0.0	0.0	0.0	0.0	23.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-309	Leq,D	99.3		232.48	-58.3	5.5	-23.7	-0.9	-0.53	0.0	0.0	0.0	0.0	21.3
P-328	Leq,D	100.8		219.64	-57.8	5.5	-23.9	-0.9	-0.46	0.0	0.0	0.0	0.0	23.1
P-329	Leq,D	100.8		222.40	-57.9	5.5	-23.9	-0.9	-0.48	0.0	0.0	0.0	0.0	23.1
P-353	Leq,D	98.5		237.10	-58.5	5.1	-23.3	-0.9	-1.03	0.0	2.2	0.0	0.0	22.0
P-358 A/B	Leq,D	99.4		228.63	-58.2	5.5	-24.5	-1.1	-1.00	0.0	0.0	0.0	0.0	20.2
P-359 A/B	Leq,D	99.4		226.38	-58.1	5.5	-24.5	-1.1	-0.99	0.0	0.0	0.0	0.0	20.3
P-360 A/B	Leq,D	99.4		222.34	-57.9	5.5	-24.2	-1.0	-0.79	0.0	0.0	0.0	0.0	20.9
P-361A	Leq,D	98.1		205.77	-57.3	5.0	-24.4	-1.0	-0.13	0.0	0.0	0.0	0.0	20.4
P-371 A/B	Leq,D	98.0		451.56	-64.1	5.5	-22.5	-1.5		0.0	0.0	0.0	0.0	15.5
P-373 A/B	Leq,D	98.0		435.31	-63.8	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.6
P-374 A/B	Leq,D	98.0		438.65	-63.8	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.6
P-375 A/B	Leq,D	98.0		446.30	-64.0	5.5	-22.6	-1.5		0.0	0.0	0.0	0.0	15.5
P-376	Leq,D	98.0		440.77	-63.9	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.5
P-376 A/B	Leq,D	98.0		431.80	-63.7	5.5	-24.0	-1.7	-1.83	0.0	0.0	0.0	0.0	12.3
P-377	Leq,D	98.0		442.78	-63.9	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.5
P-1101 A	Leq,D	98.9		161.62	-55.2	4.7	-24.5	-0.8		0.0	0.0	0.0	0.0	23.1
P-1103	Leq,D	98.9		162.84	-55.2	4.7	-24.5	-0.8		0.0	0.0	0.0	0.0	23.1
P-1105 A/B/C	Leq,D	98.9		157.26	-54.9	4.7	-24.6	-0.8		0.0	0.1	0.0	0.0	23.4
P-1800	Leq,D	98.9		112.01	-52.0	4.9	-24.8	-0.6		0.0	0.0	0.0	0.0	26.5
P-1801	Leq,D	98.9		75.81	-48.6	4.4	-11.5	-0.3		0.0	3.1	0.0	0.0	46.1
P-1802	Leq,D	98.9		77.82	-48.8	4.5	-11.5	-0.3		0.0	2.2	0.0	0.0	45.0
P-1803	Leq,D	99.1		205.28	-57.2	5.4	-24.5	-1.0		0.0	0.0	0.0	0.0	21.8
P-1804	Leq,D	99.1		185.01	-56.3	5.4	-24.7	-0.9		0.0	2.3	0.0	0.0	24.8
P-1805	Leq,D	99.1		182.78	-56.2	5.4	-24.7	-0.9		0.0	3.0	0.0	0.0	25.6
P-1806	Leq,D	99.1		223.24	-58.0	5.5	-24.4	-1.0	-0.38	0.0	2.1	0.0	0.0	23.0
P-1809 A	Leq,D	98.9		104.42	-51.4	4.9	-24.8	-0.6		0.0	0.1	0.0	0.0	27.1
P-1810 A/B/C	Leq,D	99.0		189.51	-56.5	5.4	-24.6	-0.9		0.0	1.9	0.0	0.0	24.2
P-1811 A/B	Leq,D	99.1		217.93	-57.8	5.5	-24.5	-1.0	-0.27	0.0	0.0	0.0	0.0	21.0
P-1811 A/B	Leq,D	99.1		179.98	-56.1	5.3	-24.7	-0.9		0.0	1.4	0.0	0.0	24.2
P-1847 A/B	Leq,D	99.4		262.08	-59.4	5.6	-24.1	-1.1		0.0	0.0	0.0	0.0	20.3
P-1849 A/B	Leq,D	99.4		258.23	-59.2	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.5
P-1853	Leq,D	99.1		283.81	-60.1	5.6	-23.0	-1.0	-0.51	0.0	0.0	0.0	0.0	20.1
Piping Furnace Tanks	Leq,D	87.1	72	405.52	-63.2	4.2	-24.2	-7.4		0.0	1.0	0.0	0.0	-2.5
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	406.32	-63.2	4.4	-24.0	-7.0	0.00	0.0	0.4	0.0	0.0	9.1
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	446.62	-64.0	5.0	-24.9	-3.6	-0.07	0.0	0.5	0.0	0.0	27.5
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	443.50	-63.9	5.0	-24.9	-9.4	-0.10	0.0	0.4	0.0	0.0	22.2
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	200.64	-57.0	3.5	-23.2	-0.8		0.0	0.8	0.0	0.0	33.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	228.72	-58.2	3.5	-24.3	-1.0		0.0	0.6	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	232.90	-58.3	3.6	-24.3	-1.1		0.0	0.3	0.0	0.0	24.2
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	191.80	-56.6	3.4	-14.7	-0.8		0.0	0.0	0.0	0.0	42.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	218.24	-57.8	3.5	-23.9	-1.0		0.0	0.1	0.0	0.0	25.0
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	234.55	-58.4	3.6	-24.3	-1.1		0.0	0.1	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	227.73	-58.1	3.5	-24.1	-1.0		0.0	0.0	0.0	0.0	26.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	209.39	-57.4	3.3	-24.0	-1.0		0.0	0.4	0.0	0.0	27.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	210.81	-57.5	3.0	-17.4	-0.7		0.0	0.1	0.0	0.0	40.6
PSA Pipe 3" Lagging	Leq,D	80.6	11	432.28	-63.7	3.5	-23.7	-3.2		0.0	0.0	0.0	0.0	-6.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	449.10	-64.0	5.0	-24.9	-3.7	-0.05	0.0	0.6	0.0	0.0	29.6
Reformer-Burner Reformer East	Leq,D	97.3	269	406.87	-63.2	3.4	-24.6	-2.3		0.0	0.9	0.0	0.0	14.5
Reformer-Burner Reformer North	Leq,D	95.9	192	409.81	-63.2	3.5	-23.9	-2.2		0.0	0.0	0.0	0.0	10.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer South	Leq,D	95.8	191	395.15	-62.9	3.6	-23.6	-2.0	-0.04	0.0	0.8	0.0	0.0	14.4
Reformer-Burner Reformer West	Leq,D	97.3	268	398.19	-63.0	3.6	-23.0	-1.9		0.0	0.1	0.0	0.0	16.1
RFG A from battery to process	Leq,D	99.4	87	400.93	-63.1	4.4	-24.0	-7.0		0.0	0.3	0.0	0.0	10.0
RFG A from battery to process w NC	Leq,D	115.2	42	445.16	-64.0	5.0	-24.9	-9.3	-0.13	0.0	0.7	0.0	0.0	22.5
Stack Noise	Leq,D	108.4		375.24	-62.5	3.0	-17.6	-0.5		-4.5	0.0	0.0	0.0	26.3
Steam Turbine-Facade 01	Leq,D	99.6	29	442.23	-63.9	5.3	-23.8	-4.3		0.0	1.4	0.0	0.0	14.3
Steam Turbine-Facade 02	Leq,D	96.2	13	439.93	-63.9	5.3	-23.8	-4.3		0.0	2.1	0.0	0.0	11.7
Steam Turbine-Facade 03	Leq,D	99.6	29	444.29	-63.9	5.3	-24.7	-5.9	-1.05	0.0	4.4	0.0	0.0	13.7
Steam Turbine-Facade 04	Leq,D	96.2	13	446.61	-64.0	5.3	-24.7	-5.9	-1.14	0.0	3.4	0.0	0.0	9.3
Steam Turbine-Roof 01	Leq,D	99.7	30	443.27	-63.9	5.0	-23.7	-4.2		0.0	2.3	0.0	0.0	15.1
Tank Farm Pump 1	Leq,D	99.0	3	286.88	-60.1	5.3	-24.3	-1.8		0.0	0.1	0.0	0.0	18.1
Tank Farm Pump 2	Leq,D	99.0	3	275.14	-59.8	5.2	-24.6	-1.9		0.0	0.0	0.0	0.0	18.0
Tank Farm Pump 3	Leq,D	99.0	3	271.89	-59.7	5.2	-24.6	-1.9		0.0	0.1	0.0	0.0	18.2
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	612.40	-66.7	5.1	-19.0	-1.2		0.0	0.0	-11.8	0.0	18.8
XF-1502 Splitter Area 1	Leq,D	104.5		509.14	-65.1	4.0	-20.4	-1.7	-0.06	-2.4	0.0	0.0	0.0	19.0
XF-1502 Splitter Area 2	Leq,D	104.5		507.18	-65.1	4.0	-20.3	-1.7	-0.04	-2.4	0.0	0.0	0.0	19.0
XF-1504 Splitter Area 1	Leq,D	104.5		505.40	-65.1	4.0	-20.4	-1.7	-0.02	-2.4	0.0	0.0	0.0	19.0
XF-1504 Splitter Area 2	Leq,D	104.5		503.42	-65.0	4.0	-20.4	-1.7	-0.02	-2.4	0.0	0.0	0.0	19.1
XF 251, 250, 271, 270	Leq,D	101.1	128	300.99	-60.6	3.2	-19.3	-0.5		-1.4	0.0	0.0	0.0	22.5
XF 260, 261A, 261 B	Leq,D	99.9	97	349.23	-61.9	3.6	-18.1	-0.5	0.00	-1.4	0.0	0.0	0.0	21.6
XF 304, XF 321	Leq,D	110.5	56	580.52	-66.3	4.3	-18.7	-0.9	-0.03	-1.3	0.0	0.0	0.0	27.6
XF 313, XF 314	Leq,D	113.0	18	596.71	-66.5	4.6	-19.3	-1.3	-0.02	-2.2	0.0	0.0	0.0	28.3
XF 335-1, XF 335-2	Leq,D	113.4	54	586.74	-66.4	4.3	-19.6	-1.2	-0.04	-1.4	0.0	0.0	0.0	29.1
XF 353A/B	Leq,D	95.4	35	218.61	-57.8	3.0	-20.3	-0.4	0.00	-1.5	0.0	0.0	0.0	18.4
XF 353A/B	Leq,D	95.4	35	239.68	-58.6	3.0	-18.2	-0.4	0.00	-1.4	0.0	0.0	0.0	19.8
XF 354A/B	Leq,D	95.4	35	236.59	-58.5	3.0	-17.3	-0.4	0.00	-1.4	0.0	0.0	0.0	20.8
XF 503	Leq,D	113.0	21	539.90	-65.6	4.6	-21.6	-2.0	-0.46	-2.6	0.0	0.0	0.0	25.4
XF - 1601	Leq,D	96.6		487.83	-64.8	3.0	-16.8	-0.7		-0.9	0.0	0.0	0.0	16.4
XF - 1602	Leq,D	96.6		482.83	-64.7	3.0	-16.9	-0.7		-0.9	0.0	0.0	0.0	16.4
XF Module 1510	Leq,D	108.3		510.18	-65.1	4.2	-20.2	-1.7	-0.17	-2.4	0.0	0.0	0.0	22.9
XF Module 1519	Leq,D	109.0		512.94	-65.2	4.2	-20.3	-1.7	-0.24	-2.4	0.0	0.0	0.0	23.4
xxxx xxxx xxxx xxxx	Leq,D		228								8.4			22.3
xxxx xxxx xxxx xxxx	Leq,D		520								5.8			42.3
xxxx xxxx xxxx xxxx	Leq,D		1341								4.1			55.4
xxxx xxxx xxxx xxxx	Leq,D		450								9.8			32.4
Receiver S-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 52.2 dB(A)		Ld 7-19 dB(A)		Leq,N 52.2 dB(A)		Le 19-22 dB(A)		CNEL 58.9 dB(A)		Lmax day hr dB(A)	Ld
ID Fan Motor	Leq,D	104.4	2	347.22	-61.8	5.1	-23.3	-2.0	-0.30	0.0	1.1	0.0	0.0	23.2
18-1855 A/B	Leq,D	98.8		290.57	-60.3	5.3	-23.9	-1.2	-0.26	0.0	0.1	0.0	0.0	18.7
18-1856 A/B	Leq,D	98.8		284.96	-60.1	5.3	-23.6	-1.2	-0.27	0.0	0.1	0.0	0.0	19.1
18-1857 A/B	Leq,D	98.8		296.07	-60.4	5.4	-23.9	-1.2	-0.26	0.0	0.0	0.0	0.0	18.3
18-1858 A/B	Leq,D	98.8		299.85	-60.5	5.2	-23.9	-1.2	-0.14	0.0	0.0	0.0	0.0	18.1
18-PK 1802 Air Compressor Package	Leq,D	103.1		271.57	-59.7	5.6	-21.9	-0.5	-0.80	0.0	0.0	0.0	0.0	25.8
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	368.45	-62.3	5.3	-17.6	-1.1	0.00	0.0	0.1	-2.7	0.0	30.6
Air Compressor C 1	Leq,D	110.0	5	533.47	-65.5	5.7	-23.8	-1.6	-0.27	0.0	4.6	0.0	0.0	29.1
Air Compressor Pump	Leq,D	100.3		348.49	-61.8	5.3	-24.7	-3.7	-2.87	0.0	0.0	0.0	0.0	12.5
Blower F 401	Leq,D	113.0		466.93	-64.4	5.4	-22.4	-0.6	-1.31	0.0	0.0	0.0	0.0	29.7
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	164.77	-55.3	4.4	-23.4	-0.6		0.0	0.1	0.0	0.0	23.8
Boiler Feed Water Pump A	Leq,D	97.1	3	300.62	-60.6	5.3	-24.0	-1.4		0.0	1.0	0.0	0.0	17.4
Boiler Feed Water Pump B	Leq,D	97.1	3	298.29	-60.5	5.2	-24.0	-1.4		0.0	0.7	0.0	0.0	17.1
C370 A Motor	Leq,D	103.6	3	370.85	-62.4	4.8	-24.0	-1.8	-1.00	0.0	0.0	0.0	0.0	19.3
C370 B Motor	Leq,D	108.6	3	361.98	-62.2	4.8	-24.1	-1.8	-1.82	0.0	0.0	0.0	0.0	23.6
C370A	Leq,D	103.8	5	373.18	-62.4	4.9	-24.0	-1.8		0.0	0.0	0.0	0.0	20.5
C370B	Leq,D	103.8	5	364.37	-62.2	4.9	-24.0	-1.8	-1.37	0.0	0.0	0.0	0.0	19.2
C-270 A	Leq,D	106.3	6	215.67	-57.7	4.2	-24.0	-1.2	-1.43	0.0	0.0	0.0	0.0	26.1
C-270 B	Leq,D	106.3	6	219.95	-57.8	4.2	-24.1	-1.3	-1.31	0.0	0.0	0.0	0.0	26.0
C-270 C	Leq,D	106.3	6	224.21	-58.0	4.3	-24.1	-1.3	-1.03	0.0	0.1	0.0	0.0	26.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-301 Compressor	Leq,D	106.8	3	215.72	-57.7	4.2	-23.4	-1.1	-0.83	0.0	0.0	0.0	0.0	28.0
C-301 Motor	Leq,D	106.8	4	218.79	-57.8	4.2	-24.7	-2.1	-0.97	0.0	0.0	0.0	0.0	25.5
C-351 Compressor	Leq,D	106.8	4	202.81	-57.1	4.1	-23.7	-1.1	-0.94	0.0	0.0	0.0	0.0	28.0
C-351 Motor	Leq,D	106.8	5	200.24	-57.0	3.6	-24.5	-1.9	-0.70	0.0	0.2	0.0	0.0	26.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	380.84	-62.6	5.4	-14.4	-0.5		0.0	0.0	-33.5	0.0	29.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	511.88	-65.2	5.2	-23.4	-1.5	-0.93	0.9	0.7	0.0	0.0	20.7
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	510.80	-65.2	5.2	-22.9	-1.8	-0.91	0.0	0.2	0.0	0.0	15.2
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	522.33	-65.4	5.2	-24.0	-1.7	-0.95	-6.6	0.0	0.0	0.0	13.2
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	519.32	-65.3	5.2	-23.8	-1.6	-0.77	3.5	0.0	0.0	0.0	27.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	511.24	-65.2	5.2	-23.6	-1.5	-0.98	3.3	2.9	0.0	0.0	23.9
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	530.39	-65.5	5.2	-24.1	-2.1	-0.80	-7.8	0.0	0.0	0.0	5.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	450.46	-64.1	5.2	-23.1	-1.6	-0.30	1.5	0.0	0.0	0.0	15.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	460.88	-64.3	5.2	-24.1	-1.9	-1.13	-7.8	0.0	0.0	0.0	3.9
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	429.26	-63.6	4.9	-21.8	-1.2		1.7	0.0	0.0	0.0	20.6
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	444.20	-63.9	5.0	-24.2	-1.9	-0.47	-7.8	5.3	0.0	0.0	12.7
Cooling Tower M 512	Leq,D	95.7		452.29	-64.1	5.5	-23.9	-1.9	-0.63	0.0	2.6	0.0	0.0	13.3
Cooling Tower M 513	Leq,D	95.7		453.45	-64.1	5.5	-23.9	-1.9	-0.63	0.0	2.6	0.0	0.0	13.2
Cooling Tower M 514	Leq,D	95.7		450.93	-64.1	5.5	-23.9	-1.9		0.0	0.0	0.0	0.0	11.3
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	325.31	-61.2	3.7	-21.5	-0.6		-1.4	0.1	0.0	0.0	14.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	361.00	-62.1	5.0	-17.1	-0.1	-0.11	0.0	1.4	0.0	0.0	22.3
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	363.48	-62.2	5.1	-18.5	-0.1	-0.11	0.0	2.8	0.0	0.0	20.0
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	361.86	-62.2	4.5	-16.6	-0.1	-0.11	0.0	0.0	0.0	0.0	19.0
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	360.24	-62.1	5.0	-17.0	-0.1	-0.10	0.0	1.1	0.0	0.0	19.9
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	362.71	-62.2	5.0	-18.6	-0.1	-0.10	0.0	1.1	0.0	0.0	20.5
FD Motor	Leq,D	103.3	2	360.26	-62.1	5.2	-24.8	-3.0	-0.44	0.0	2.3	0.0	0.0	20.4
Feed Compressor -B Motor	Leq,D	103.8	5	329.79	-61.4	4.7	-24.8	-2.9	-1.78	0.0	0.0	0.0	0.0	17.7
Feed Compressor-A Compressor	Leq,D	104.0	5	344.59	-61.7	4.9	-23.8	-1.6	-0.09	0.0	0.1	0.0	0.0	21.7
Feed Compressor-A Motor	Leq,D	103.8	6	341.47	-61.7	4.7	-24.6	-2.8	-0.80	0.0	0.0	0.0	0.0	18.7
Feed Compressor-B Compressor	Leq,D	104.0	7	333.31	-61.4	4.8	-23.9	-1.6	-1.03	0.0	0.0	0.0	0.0	20.9
H2S Compressor 18-C-271	Leq,D	105.3	6	513.00	-65.2	5.4	-23.7	-2.2	-0.35	0.0	0.0	0.0	0.0	19.4
Heater # 5-Heater	Leq,D	91.1	13	167.54	-55.5	4.5	-21.9	-0.5		0.0	0.0	0.0	0.0	20.7
Heater # 5-Heater	Leq,D	91.1	13	172.43	-55.7	4.5	-20.7	-0.4		0.0	0.0	0.0	0.0	21.8
Heater # 5-Heater	Leq,D	91.1	13	162.79	-55.2	4.4	-22.5	-0.5		0.0	0.2	0.0	0.0	20.6
Hydro Heater H-402	Leq,D	98.1		475.40	-64.5	5.5	-22.5	-1.2	-0.35	0.0	0.0	0.0	0.0	15.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	345.06	-61.8	5.1	-12.4	-0.1	-0.08	0.0	0.0	0.0	0.0	17.8
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	343.25	-61.7	5.1	-14.5	-0.1		0.0	0.7	0.0	0.0	16.8
ID Fan-ID Fan - North	Leq,D	92.2	8	346.32	-61.8	5.1	-14.3	-0.1	-0.07	0.0	0.0	0.0	0.0	21.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	343.99	-61.7	5.1	-17.1	-0.1	-0.07	0.0	0.0	0.0	0.0	17.6
ID Fan-ID Fan - South	Leq,D	92.3	9	343.86	-61.7	5.1	-14.6	-0.1		0.0	0.0	0.0	0.0	21.1
ID Fan-ID Fan - South 2	Leq,D	91.4	7	342.82	-61.7	5.1	-8.4	-0.1	-0.09	0.0	0.0	0.0	0.0	26.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	344.65	-61.7	4.7	-11.1	-0.1	-0.07	0.0	0.0	0.0	0.0	25.7
Motor & Pump P 56A/B	Leq,D	93.7		490.50	-64.8	5.5	-24.3	-3.0	-0.16	0.0	0.8	0.0	0.0	7.7
Motor & Pump P 120/121	Leq,D	96.2	2	525.71	-65.4	5.6	-24.2	-2.0	-1.30	0.0	1.6	0.0	0.0	10.5
Motor & Pump P 211/212	Leq,D	93.7		495.03	-64.9	5.6	-23.5	-2.6	-0.64	0.0	0.0	0.0	0.0	7.6
Motor & Pump P 215/214	Leq,D	94.6		497.73	-64.9	5.6	-24.4	-3.1	-0.74	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 216	Leq,D	98.3		501.11	-65.0	5.5	-23.5	-2.6	-0.80	0.0	0.0	0.0	0.0	12.0
Motor & Pump P 217/218	Leq,D	93.7		496.14	-64.9	5.7	-24.2	-3.0	-0.69	0.0	0.0	0.0	0.0	6.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 300	Leq,D	97.1	2	536.79	-65.6	5.6	-24.7	-2.3		0.0	0.0	0.0	0.0	10.2
Motor & Pump P 301	Leq,D	102.1	2	535.85	-65.6	5.6	-24.5	-2.2	-0.93	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 302	Leq,D	97.1	2	537.80	-65.6	5.6	-24.4	-2.1	-1.00	0.0	0.8	0.0	0.0	10.4
Motor & Pump P 303	Leq,D	97.1	2	538.72	-65.6	5.6	-24.4	-2.1	-1.00	0.0	0.0	0.0	0.0	9.6
Motor & Pump P 305	Leq,D	97.5	2	539.57	-65.6	5.6	-24.1	-2.1	-1.35	0.0	0.0	0.0	0.0	9.9
Motor & Pump P 306	Leq,D	112.6	4	544.70	-65.7	5.6	-24.1	-2.5	-1.18	0.0	0.4	0.0	0.0	25.0
Motor & Pump P 307	Leq,D	102.1	2	533.14	-65.5	5.6	-24.6	-2.2	-0.75	0.0	0.6	0.0	0.0	15.2
Motor & Pump P 309	Leq,D	97.5	2	540.42	-65.6	5.6	-24.1	-2.0	-1.40	0.0	0.0	0.0	0.0	9.9
Motor & Pump P 312	Leq,D	101.5	2	521.29	-65.3	5.7	-23.1	-1.7	-0.27	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 313	Leq,D	101.5	2	520.35	-65.3	5.7	-23.1	-1.7	-0.27	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 315	Leq,D	102.9	2	517.24	-65.3	5.6	-24.2	-2.0	-1.90	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 316	Leq,D	102.9	2	516.23	-65.2	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	16.5
Motor & Pump P 317	Leq,D	102.9	2	515.13	-65.2	5.6	-23.5	-1.8	-0.95	0.0	0.0	0.0	0.0	17.0
Motor & Pump P 318	Leq,D	100.2	1	517.83	-65.3	5.7	-24.5	-2.1		0.0	0.2	0.0	0.0	14.2
Motor & Pump P 319	Leq,D	100.2	1	518.60	-65.3	5.7	-24.2	-2.0	-2.00	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 327	Leq,D	111.2	3	549.86	-65.8	5.6	-24.8	-3.4	-0.09	0.0	2.7	0.0	0.0	25.5
Motor & Pump P 328	Leq,D	109.9	5	541.31	-65.7	5.6	-24.3	-2.1	-1.30	0.0	0.0	0.0	0.0	22.1
Motor & Pump P 329	Leq,D	110.2	5	542.96	-65.7	5.6	-24.5	-2.2	-1.01	0.0	0.1	0.0	0.0	22.4
Motor & Pump P 451	Leq,D	93.7		470.98	-64.5	5.5	-24.4	-3.0	-0.36	0.0	0.0	0.0	0.0	6.9
Motor & Pump P 453	Leq,D	93.7		462.87	-64.3	5.5	-24.4	-3.0	-0.12	0.0	0.0	0.0	0.0	7.4
Motor & Pump P 454	Leq,D	93.7		472.48	-64.5	5.5	-24.4	-3.0	-0.24	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 457	Leq,D	93.7		462.15	-64.3	5.5	-24.4	-3.0	-0.10	0.0	0.0	0.0	0.0	7.4
Motor & Pump P 458	Leq,D	93.7		469.97	-64.4	5.5	-24.4	-3.0	-0.37	0.0	0.0	0.0	0.0	6.9
Motor & Pump P 459	Leq,D	93.7		472.97	-64.5	5.5	-24.4	-3.0	-0.25	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		473.72	-64.5	5.6	-24.5	-3.0	-0.51	0.0	0.0	0.0	0.0	9.2
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		474.65	-64.5	5.6	-24.5	-3.1	-0.57	0.0	2.4	0.0	0.0	11.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		486.59	-64.7	5.6	-24.3	-2.9	-0.21	0.0	0.0	0.0	0.0	8.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		487.29	-64.7	5.6	-24.3	-2.9	-0.21	0.0	0.0	0.0	0.0	8.8
Motor & Pump P 1601 A	Leq,D	96.3	2	450.66	-64.1	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.3
Motor & Pump P 1601 B	Leq,D	96.3	2	449.39	-64.0	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.3
Motor & Pump P 1602 A	Leq,D	96.3	2	448.32	-64.0	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.4
Motor & Pump P 1602 B	Leq,D	96.5	2	447.10	-64.0	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	466.28	-64.4	5.6	-24.6	-3.1	-0.57	0.0	0.0	0.0	0.0	9.6
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	469.07	-64.4	5.6	-24.5	-3.0	-0.75	0.0	0.0	0.0	0.0	9.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	470.45	-64.4	5.6	-24.5	-3.0	-0.77	0.0	0.0	0.0	0.0	9.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	474.98	-64.5	5.6	-24.5	-3.1	-0.63	0.0	2.0	0.0	0.0	11.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	475.98	-64.5	5.6	-24.5	-3.1	-0.70	0.0	1.2	0.0	0.0	10.7
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	467.84	-64.4	5.6	-24.3	-2.9	-0.03	0.0	0.0	0.0	0.0	10.3
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	469.72	-64.4	5.6	-23.8	-2.6	-0.09	0.0	0.1	0.0	0.0	11.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	472.96	-64.5	5.6	-23.8	-2.6	-0.19	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	471.50	-64.5	5.6	-23.8	-2.6	-0.15	0.0	0.0	0.0	0.0	10.9
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	513.12	-65.2	5.4	-23.2	-1.9	-0.50	0.0	0.0	0.0	0.0	18.7
P-2 A/B	Leq,D	98.5		106.52	-51.5	4.9	-24.7	-0.6		0.0	0.4	0.0	0.0	27.0
P-50 A/B	Leq,D	98.1		149.14	-54.5	5.2	-24.7	-0.8	-0.12	0.0	0.3	0.0	0.0	23.6
P-51 A/B	Leq,D	98.1		146.39	-54.3	5.2	-24.7	-0.8	-0.12	0.0	0.0	0.0	0.0	23.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-060 A/B	Leq,D	98.1		156.38	-54.9	5.2	-24.6	-0.8	-0.12	0.0	0.0	0.0	0.0	23.0
P-63	Leq,D	98.5		124.85	-52.9	5.1	-24.8	-0.7		0.0	0.0	0.0	0.0	25.2
P-70 A/B	Leq,D	98.1		153.12	-54.7	5.2	-24.6	-0.8	-0.12	0.0	0.0	0.0	0.0	23.1
P-73 A/B	Leq,D	98.5		109.69	-51.8	4.9	-24.7	-0.6		0.0	0.4	0.0	0.0	26.7
P-251 A/B	Leq,D	98.2		276.01	-59.8	5.6	-24.1	-1.2	-0.85	0.0	0.0	0.0	0.0	17.8
P-252 A/B	Leq,D	98.2		277.80	-59.9	5.6	-24.3	-1.2	-1.30	0.0	0.0	0.0	0.0	17.1
P-253	Leq,D	98.2		270.91	-59.6	5.6	-24.2	-1.2	-1.25	0.0	0.0	0.0	0.0	17.5
P-254 A/B	Leq,D	98.2		265.67	-59.5	5.6	-24.3	-1.1	-1.10	0.0	0.0	0.0	0.0	17.8
P-255 A/B	Leq,D	98.2		268.80	-59.6	5.6	-24.4	-1.2	-1.10	0.0	0.0	0.0	0.0	17.5
P-255 A/B	Leq,D	98.2		282.75	-60.0	5.6	-24.1	-1.2	-0.76	0.0	0.0	0.0	0.0	17.8
P-256 A/B	Leq,D	98.2		272.88	-59.7	5.6	-24.2	-1.2	-0.94	0.0	0.0	0.0	0.0	17.8
P-259 A/B	Leq,D	98.2		279.27	-59.9	5.6	-24.1	-1.2	-0.81	0.0	0.0	0.0	0.0	17.8
P-260	Leq,D	99.1		295.58	-60.4	5.6	-24.0	-1.2	-1.25	0.0	0.0	0.0	0.0	17.9
P-261 A/B	Leq,D	98.0		317.55	-61.0	5.6	-23.8	-1.3	-1.03	0.0	0.0	0.0	0.0	16.6
P-262 A/B	Leq,D	99.1		303.48	-60.6	5.6	-23.9	-1.2	-1.23	0.0	0.0	0.0	0.0	17.7
P-263 A/B	Leq,D	99.4		299.78	-60.5	5.6	-23.9	-1.2	-1.21	0.0	0.0	0.0	0.0	18.1
P-270 A/B	Leq,D	98.5		229.05	-58.2	5.5	-24.2	-1.0	-1.38	0.0	0.0	0.0	0.0	19.2
P-271 A/B	Leq,D	98.2		256.79	-59.2	5.5	-24.3	-1.1	-1.14	0.0	0.0	0.0	0.0	18.0
P-272 A/B	Leq,D	98.2		261.08	-59.3	5.5	-24.2	-1.1	-1.16	0.0	0.0	0.0	0.0	17.9
P-273 A/B	Leq,D	98.5		232.04	-58.3	5.5	-24.2	-1.0	-1.40	0.0	0.0	0.0	0.0	19.0
P-275 A/B/C	Leq,D	98.2		261.01	-59.3	5.5	-24.3	-1.1	-1.17	0.0	0.0	0.0	0.0	17.9
P-305	Leq,D	99.3		190.20	-56.6	5.4	-24.3	-0.9	-0.43	0.0	0.0	0.0	0.0	22.5
P-306	Leq,D	100.8		180.90	-56.1	5.3	-24.4	-0.9	-0.39	0.0	0.0	0.0	0.0	24.3
P-309	Leq,D	99.3		187.96	-56.5	5.4	-24.4	-0.9	-0.42	0.0	0.0	0.0	0.0	22.6
P-328	Leq,D	100.8		175.44	-55.9	5.3	-24.5	-0.8	-0.36	0.0	1.4	0.0	0.0	26.0
P-329	Leq,D	100.8		178.14	-56.0	5.3	-24.5	-0.8	-0.38	0.0	1.4	0.0	0.0	25.9
P-353	Leq,D	98.5		193.59	-56.7	4.9	-24.4	-0.9	-1.02	0.0	3.1	0.0	0.0	23.4
P-358 A/B	Leq,D	99.4		188.17	-56.5	5.4	-24.6	-0.9	-1.07	0.0	0.3	0.0	0.0	22.0
P-359 A/B	Leq,D	99.4		185.45	-56.4	5.4	-24.6	-0.9	-1.06	0.0	0.3	0.0	0.0	22.1
P-360 A/B	Leq,D	99.4		180.52	-56.1	5.3	-24.4	-0.9	-0.74	0.0	0.0	0.0	0.0	22.6
P-361A	Leq,D	98.1		172.22	-55.7	4.8	-20.8	-0.6	-0.16	0.0	0.0	0.0	0.0	25.7
P-371 A/B	Leq,D	98.0		410.70	-63.3	5.5	-23.5	-1.5		0.0	0.0	0.0	0.0	15.2
P-373 A/B	Leq,D	98.0		395.07	-62.9	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.4
P-374 A/B	Leq,D	98.0		398.29	-63.0	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.4
P-375 A/B	Leq,D	98.0		405.69	-63.2	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.3
P-376	Leq,D	98.0		400.34	-63.0	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.3
P-376 A/B	Leq,D	98.0		391.70	-62.9	5.5	-24.3	-1.6	-2.19	0.0	0.0	0.0	0.0	12.5
P-377	Leq,D	98.0		402.28	-63.1	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.3
P-1101 A	Leq,D	98.9		127.13	-53.1	4.4	-14.0	-0.4		0.0	0.2	0.0	0.0	36.1
P-1103	Leq,D	98.9		128.14	-53.1	4.4	-13.9	-0.4		0.0	0.2	0.0	0.0	36.0
P-1105 A/B/C	Leq,D	98.9		123.69	-52.8	4.3	-24.5	-0.6		0.0	2.0	0.0	0.0	27.3
P-1800	Leq,D	98.9		74.54	-48.4	4.4	-24.8	-0.4		0.0	1.7	0.0	0.0	31.4
P-1801	Leq,D	98.9		58.45	-46.3	4.0	-24.8	-0.3		0.0	1.5	0.0	0.0	32.9
P-1802	Leq,D	98.9		60.96	-46.7	4.1	-25.0	-0.4		0.0	1.6	0.0	0.0	32.6
P-1803	Leq,D	99.1		174.61	-55.8	5.3	-24.5	-0.9		0.0	0.2	0.0	0.0	23.4
P-1804	Leq,D	99.1		154.36	-54.8	5.2	-24.8	-0.8		0.0	0.0	0.0	0.0	24.0
P-1805	Leq,D	99.1		152.65	-54.7	5.2	-24.8	-0.8		0.0	0.0	0.0	0.0	24.1
P-1806	Leq,D	99.1		189.49	-56.5	5.4	-20.3	-0.6	-0.47	0.0	0.0	0.0	0.0	26.6
P-1809 A	Leq,D	98.9		71.07	-48.0	4.3	-24.8	-0.4		0.0	1.9	0.0	0.0	31.9
P-1810 A/B/C	Leq,D	99.0		161.36	-55.1	5.3	-24.8	-0.8		0.0	0.0	0.0	0.0	23.5
P-1811 A/B	Leq,D	99.1		184.95	-56.3	5.4	-24.0	-0.8	-0.34	0.0	2.4	0.0	0.0	25.4
P-1811 A/B	Leq,D	99.1		150.52	-54.5	5.2	-24.8	-0.8		0.0	2.8	0.0	0.0	27.0
P-1847 A/B	Leq,D	99.4		237.04	-58.5	5.5	-24.4	-1.1		0.0	1.3	0.0	0.0	22.2
P-1849 A/B	Leq,D	99.4		234.12	-58.4	5.5	-24.5	-1.1		0.0	0.0	0.0	0.0	20.9
P-1853	Leq,D	99.1		239.17	-58.6	5.5	-24.8	-1.2		0.0	1.8	0.0	0.0	21.9
Piping Furnace Tanks	Leq,D	87.1	72	369.35	-62.3	4.1	-24.7	-7.9		0.0	1.9	0.0	0.0	-1.8
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	368.36	-62.3	4.2	-24.6	-7.7	0.00	0.0	1.0	0.0	0.0	9.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	409.13	-63.2	4.9	-24.9	-3.4	-0.39	0.0	1.1	0.0	0.0	28.6
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	406.04	-63.2	4.9	-24.9	-9.1	-0.43	0.0	1.0	0.0	0.0	23.4
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	190.43	-56.6	3.2	-24.5	-0.9		0.0	0.3	0.0	0.0	32.0
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	215.17	-57.6	3.0	-24.8	-1.1		0.0	0.5	0.0	0.0	31.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	213.41	-57.6	3.0	-24.8	-1.1		0.0	0.4	0.0	0.0	24.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	175.63	-55.9	3.0	-24.4	-0.9		0.0	0.2	0.0	0.0	33.2
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	197.35	-56.9	3.0	-24.7	-1.0		0.0	0.3	0.0	0.0	24.7
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	216.12	-57.7	3.5	-24.8	-1.1		0.0	0.1	0.0	0.0	23.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	206.73	-57.3	3.3	-24.7	-1.0		0.0	0.0	0.0	0.0	26.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	188.70	-56.5	3.2	-24.6	-0.9		0.0	0.1	0.0	0.0	27.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	195.69	-56.8	3.0	-24.6	-0.9		0.0	0.2	0.0	0.0	33.9
PSA Pipe 3" Lagging	Leq,D	80.6	11	395.54	-62.9	3.4	-24.3	-3.1		0.0	0.7	0.0	0.0	-5.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	411.47	-63.3	4.9	-24.9	-3.4	-0.40	0.0	1.1	0.0	0.0	30.6
Reformer-Burner Reformer East	Leq,D	97.3	269	372.38	-62.4	3.2	-24.7	-2.3		0.0	4.2	0.0	0.0	18.3
Reformer-Burner Reformer North	Leq,D	95.9	192	374.38	-62.5	3.4	-24.5	-2.2		0.0	0.0	0.0	0.0	10.0
Reformer-Burner Reformer South	Leq,D	95.8	191	360.80	-62.1	3.5	-24.3	-2.0	-0.06	0.0	1.0	0.0	0.0	14.6
Reformer-Burner Reformer West	Leq,D	97.3	268	362.88	-62.2	3.5	-23.7	-1.9		0.0	0.2	0.0	0.0	16.2
RFG A from battery to process	Leq,D	99.4	87	363.22	-62.2	4.2	-24.6	-7.6	0.00	0.0	1.0	0.0	0.0	10.1
RFG A from battery to process w NC	Leq,D	115.2	42	407.85	-63.2	4.9	-24.9	-9.1	-0.49	0.0	1.6	0.0	0.0	24.0
Stack Noise	Leq,D	108.4		342.83	-61.7	3.0	-7.1	-0.9		-5.5	0.0	0.0	0.0	36.3
Steam Turbine-Facade 01	Leq,D	99.6	29	403.50	-63.1	5.3	-24.2	-4.7		0.0	1.3	0.0	0.0	14.1
Steam Turbine-Facade 02	Leq,D	96.2	13	401.44	-63.1	5.3	-24.2	-4.7		0.0	2.3	0.0	0.0	11.9
Steam Turbine-Facade 03	Leq,D	99.6	29	405.75	-63.2	5.3	-24.8	-5.8	-1.65	0.0	4.3	0.0	0.0	13.7
Steam Turbine-Facade 04	Leq,D	96.2	13	407.83	-63.2	5.3	-24.8	-5.8	-1.73	0.0	2.6	0.0	0.0	8.6
Steam Turbine-Roof 01	Leq,D	99.7	30	404.63	-63.1	4.9	-24.2	-4.7		0.0	2.4	0.0	0.0	14.9
Tank Farm Pump 1	Leq,D	99.0	3	261.92	-59.4	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.5
Tank Farm Pump 2	Leq,D	99.0	3	253.03	-59.1	5.2	-24.6	-1.8		0.0	1.1	0.0	0.0	19.8
Tank Farm Pump 3	Leq,D	99.0	3	250.62	-59.0	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.8
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	561.46	-66.0	5.0	-20.2	-1.3		0.0	0.1	-11.8	0.0	18.3
XF-1502 Splitter Area 1	Leq,D	104.5		469.57	-64.4	3.9	-22.0	-1.8	-0.06	-2.5	0.0	0.0	0.0	17.6
XF-1502 Splitter Area 2	Leq,D	104.5		467.44	-64.4	3.9	-22.0	-1.8	-0.04	-2.5	0.0	0.0	0.0	17.7
XF-1504 Splitter Area 1	Leq,D	104.5		465.95	-64.4	3.9	-22.1	-1.8	-0.02	-2.5	0.0	0.0	0.0	17.7
XF-1504 Splitter Area 2	Leq,D	104.5		463.81	-64.3	3.8	-22.0	-1.8	-0.02	-2.5	0.0	0.0	0.0	17.7
XF 251, 250, 271, 270	Leq,D	101.1	128	259.00	-59.3	3.0	-18.5	-0.4		-1.4	0.0	0.0	0.0	24.5
XF 260, 261A, 261 B	Leq,D	99.9	97	306.32	-60.7	3.3	-18.4	-0.5	0.00	-1.4	0.0	0.0	0.0	22.1
XF 304, XF 321	Leq,D	110.5	56	540.38	-65.6	4.1	-20.6	-0.9	-0.04	-1.4	0.0	0.0	0.0	26.1
XF 313, XF 314	Leq,D	113.0	18	557.73	-65.9	4.5	-22.3	-1.4	-0.02	-2.3	0.0	0.0	0.0	25.6
XF 335-1, XF 335-2	Leq,D	113.4	54	547.07	-65.8	4.2	-21.9	-1.4	-0.04	-1.5	0.0	0.0	0.0	27.0
XF 353A/B	Leq,D	95.4	35	177.76	-56.0	3.0	-20.3	-0.4	0.00	-1.4	0.0	0.0	0.0	20.3
XF 353A/B	Leq,D	95.4	35	200.20	-57.0	3.0	-20.4	-0.4		-1.4	0.0	0.0	0.0	19.2
XF 354A/B	Leq,D	95.4	35	193.02	-56.7	3.0	-16.1	-0.3	0.00	-1.5	0.1	0.0	0.0	23.9
XF 503	Leq,D	113.0	21	498.27	-64.9	4.5	-23.3	-2.4	-0.48	-2.7	0.0	0.0	0.0	23.7
XF - 1601	Leq,D	96.6		448.38	-64.0	3.0	-18.2	-0.7		-0.9	0.0	0.0	0.0	15.8
XF - 1602	Leq,D	96.6		443.56	-63.9	3.0	-18.3	-0.7		-0.9	0.0	0.0	0.0	15.8
XF Module 1510	Leq,D	108.3		470.12	-64.4	4.0	-22.0	-1.8	-0.15	-2.5	0.0	0.0	0.0	21.5
XF Module 1519	Leq,D	109.0		473.11	-64.5	4.1	-22.0	-1.8	-0.24	-2.5	0.0	0.0	0.0	22.1
xxxx xxxx xxxx xxxx	Leq,D		228								15.2			11.3
xxxx xxxx xxxx xxxx	Leq,D		520								3.3			40.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
xxxx xxxx xxxx xxxx	Leq,D		1341								5.5			49.8
xxxx xxxx xxxx xxxx	Leq,D		450								7.6			32.5
Receiver S-4 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 55.6 dB(A)		Ld 7-19 dB(A)		Leq,N 55.5 dB(A)		Le 19-22 dB(A)		CNEL 62.2 dB(A)		Lmax day hr	dB(A) Ld
ID Fan Motor	Leq,D	104.4	2	306.18	-60.7	5.0	-20.7	-1.4	-1.50	0.0	1.2	0.0	0.0	26.3
18-1855 A/B	Leq,D	98.8		238.73	-58.6	5.2	-14.4	-0.8	-2.21	0.0	0.0	0.0	0.0	28.1
18-1856 A/B	Leq,D	98.8		233.97	-58.4	5.2	-15.1	-0.7	-2.08	0.0	0.3	0.0	0.0	28.0
18-1857 A/B	Leq,D	98.8		243.45	-58.7	5.2	-14.3	-0.8	-2.14	0.0	0.0	0.0	0.0	28.1
18-1858 A/B	Leq,D	98.8		246.69	-58.8	5.0	-13.9	-0.8	-2.06	0.0	0.0	0.0	0.0	28.2
18-PK 1802 Air Compressor Package	Leq,D	103.1		219.81	-57.8	5.5	-12.7	-0.3	-2.33	0.0	0.0	0.0	0.0	35.4
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	296.82	-60.4	5.1	-12.3	-1.3	0.00	0.0	0.5	-2.7	0.0	37.9
Air Compressor C 1	Leq,D	110.0	5	478.26	-64.6	5.6	-16.8	-0.9	-2.00	0.0	3.8	0.0	0.0	35.1
Air Compressor Pump	Leq,D	100.3		288.93	-60.2	5.2	-23.5	-2.5	-1.81	0.0	1.1	0.0	0.0	18.6
Blower F 401	Leq,D	113.0		404.66	-63.1	5.3	-17.8	-0.5	-0.04	0.0	0.0	0.0	0.0	36.8
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	99.58	-51.0	3.5	-23.3	-0.4		0.0	2.4	0.0	0.0	29.9
Boiler Feed Water Pump A	Leq,D	97.1	3	252.81	-59.0	5.1	-16.0	-0.8	-1.76	0.0	0.3	0.0	0.0	24.9
Boiler Feed Water Pump B	Leq,D	97.1	3	250.07	-59.0	5.1	-16.2	-0.8	-1.78	0.0	0.3	0.0	0.0	24.8
C370 A Motor	Leq,D	103.6	3	315.77	-61.0	4.6	-14.4	-1.0	-1.99	0.0	0.0	0.0	0.0	29.8
C370 B Motor	Leq,D	108.6	3	307.70	-60.8	4.6	-14.6	-1.0	-1.91	0.0	0.0	0.0	0.0	34.9
C370A	Leq,D	103.8	5	318.55	-61.1	4.7	-14.4	-1.1	-1.95	0.0	0.0	0.0	0.0	30.1
C370B	Leq,D	103.8	5	310.57	-60.8	4.7	-14.8	-1.0	-1.88	0.0	0.0	0.0	0.0	29.9
C-270 A	Leq,D	106.3	6	158.42	-55.0	3.6	-16.4	-0.5	-1.29	0.0	1.6	0.0	0.0	38.3
C-270 B	Leq,D	106.3	6	162.09	-55.2	3.6	-15.7	-0.6	-1.22	0.0	1.8	0.0	0.0	39.0
C-270 C	Leq,D	106.3	6	165.80	-55.4	3.7	-15.6	-0.6	-1.07	0.0	0.9	0.0	0.0	38.2
C-301 Compressor	Leq,D	106.8	3	165.45	-55.4	3.7	-16.7	-0.6	-1.45	0.0	0.0	0.0	0.0	36.4
C-301 Motor	Leq,D	106.8	4	167.85	-55.5	3.7	-17.7	-0.9	-1.70	0.0	0.0	0.0	0.0	34.7
C-351 Compressor	Leq,D	106.8	4	149.60	-54.5	3.4	-15.3	-0.5	-1.22	0.0	0.3	0.0	0.0	39.0
C-351 Motor	Leq,D	106.8	5	146.07	-54.3	3.0	-14.8	-0.8	-1.34	0.0	0.0	0.0	0.0	38.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	306.65	-60.7	5.2	-9.0	-0.5		0.0	0.0	-33.5	0.0	36.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	451.23	-64.1	5.1	-16.3	-0.9	-1.19	1.2	0.8	0.0	0.0	29.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	450.62	-64.1	5.1	-16.4	-1.0	-1.33	0.0	0.3	0.0	0.0	23.1
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	461.88	-64.3	5.1	-21.2	-1.1	-1.21	-7.0	0.3	0.0	0.0	17.2
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	458.16	-64.2	5.1	-17.5	-1.0	-1.19	3.1	0.1	0.0	0.0	35.1
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	450.82	-64.1	5.1	-17.9	-0.9	-1.23	3.1	2.9	0.0	0.0	30.8
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	469.22	-64.4	5.1	-21.6	-1.4	-1.17	-7.8	0.4	0.0	0.0	9.5
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	393.37	-62.9	5.1	-14.5	-1.0	-1.90	2.0	0.1	0.0	0.0	24.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	403.11	-63.1	5.1	-21.1	-1.2	-2.00	-7.8	0.2	0.0	0.0	8.0
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	373.55	-62.4	4.7	-11.2	-0.9	-2.10	2.3	0.0	0.0	0.0	30.9
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	387.40	-62.8	4.9	-22.0	-1.3	-0.95	-7.8	8.4	0.0	0.0	19.2
Cooling Tower M 512	Leq,D	95.7		394.35	-62.9	5.4	-14.5	-1.5	-2.00	0.0	3.0	0.0	0.0	23.2
Cooling Tower M 513	Leq,D	95.7		395.42	-62.9	5.4	-14.3	-1.5	-1.99	0.0	2.9	0.0	0.0	23.3
Cooling Tower M 514	Leq,D	95.7		393.06	-62.9	5.4	-13.9	-1.5	-2.01	0.0	2.6	0.0	0.0	23.4
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	279.50	-59.9	3.3	-11.1	-0.5	-1.45	-1.8	0.0	0.0	0.0	24.3
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	319.07	-61.1	4.9	-8.8	-0.1	-0.48	0.0	0.5	0.0	0.0	30.3
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	321.59	-61.1	4.9	-14.8	-0.1	-0.38	0.0	3.1	0.0	0.0	24.7
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	319.77	-61.1	4.3	-9.7	-0.1	-0.42	0.0	0.3	0.0	0.0	26.8
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	317.94	-61.0	4.9	-9.9	-0.1	-0.23	0.0	0.7	0.0	0.0	27.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	320.44	-61.1	4.9	-15.4	-0.1	-0.25	0.0	1.6	0.0	0.0	25.0
FD Motor	Leq,D	103.3	2	318.49	-61.1	5.1	-15.9	-1.5	-1.60	0.0	1.2	0.0	0.0	29.5
Feed Compressor -B Motor	Leq,D	103.8	5	277.22	-59.8	4.4	-15.9	-1.3	-2.11	0.0	0.0	0.0	0.0	29.0
Feed Compressor-A Compressor	Leq,D	104.0	5	291.30	-60.3	4.7	-14.7	-1.0	-1.83	0.0	0.1	0.0	0.0	31.0
Feed Compressor-A Motor	Leq,D	103.8	6	287.60	-60.2	4.5	-15.6	-1.4	-2.13	0.0	0.0	0.0	0.0	29.0
Feed Compressor-B Compressor	Leq,D	104.0	7	281.42	-60.0	4.6	-15.8	-0.9	-1.92	0.0	0.2	0.0	0.0	30.2
H2S Compressor 18-C-271	Leq,D	105.3	6	455.44	-64.2	5.3	-15.7	-1.4	-2.08	0.0	0.2	0.0	0.0	27.5
Heater # 5-Heater	Leq,D	91.1	13	102.93	-51.2	3.7	-12.2	-0.2		0.0	0.1	0.0	0.0	34.1
Heater # 5-Heater	Leq,D	91.1	13	107.43	-51.6	3.7	-18.4	-0.2		0.0	0.3	0.0	0.0	27.8
Heater # 5-Heater	Leq,D	91.1	13	98.58	-50.9	3.6	-12.1	-0.2		0.0	0.1	0.0	0.0	34.6
Hydro Heater H-402	Leq,D	98.1		416.14	-63.4	5.4	-18.3	-0.7	-0.64	0.0	0.1	0.0	0.0	20.6
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	303.98	-60.6	5.0	-11.9	-0.1	-0.25	0.0	0.0	0.0	0.0	19.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	301.94	-60.6	5.0	-5.5	-0.1	-0.35	0.0	0.8	0.0	0.0	26.5
ID Fan-ID Fan - North	Leq,D	92.2	8	305.08	-60.7	5.0	-12.9	-0.1	-0.24	0.0	0.0	0.0	0.0	23.3
ID Fan-ID Fan - North 2	Leq,D	91.4	7	303.02	-60.6	5.0	-14.8	-0.1	-0.24	0.0	0.0	0.0	0.0	20.7
ID Fan-ID Fan - South	Leq,D	92.3	9	302.29	-60.6	5.0	-5.6	-0.1	-0.33	0.0	0.0	0.0	0.0	30.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	301.71	-60.6	5.0	-5.6	-0.1	-0.33	0.0	0.0	0.0	0.0	29.7
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	303.38	-60.6	4.6	-6.4	-0.1	-0.36	0.0	0.0	0.0	0.0	31.1
Motor & Pump P 56A/B	Leq,D	93.7		431.98	-63.7	5.5	-15.5	-1.8	-2.14	0.0	0.3	0.0	0.0	16.3
Motor & Pump P 120/121	Leq,D	96.2	2	469.65	-64.4	5.6	-20.0	-1.4	-1.87	0.0	0.0	0.0	0.0	14.0
Motor & Pump P 211/212	Leq,D	93.7		434.03	-63.7	5.5	-13.7	-1.8	-1.44	0.0	0.6	0.0	0.0	19.0
Motor & Pump P 215/214	Leq,D	94.6		437.04	-63.8	5.5	-22.2	-2.0	-1.04	0.0	0.9	0.0	0.0	12.0
Motor & Pump P 216	Leq,D	98.3		439.89	-63.9	5.5	-24.3	-2.9	-0.20	0.0	4.2	0.0	0.0	16.7
Motor & Pump P 217/218	Leq,D	93.7		435.25	-63.8	5.7	-13.0	-1.9	-1.55	0.0	0.5	0.0	0.0	19.6
Motor & Pump P 300	Leq,D	97.1	2	480.29	-64.6	5.6	-22.1	-1.5	-1.34	0.0	3.5	0.0	0.0	16.6
Motor & Pump P 301	Leq,D	102.1	2	479.23	-64.6	5.6	-22.6	-1.6	-1.27	0.0	2.9	0.0	0.0	20.5
Motor & Pump P 302	Leq,D	97.1	2	481.42	-64.6	5.6	-21.6	-1.5	-1.42	0.0	2.7	0.0	0.0	16.3
Motor & Pump P 303	Leq,D	97.1	2	482.44	-64.7	5.6	-21.0	-1.4	-1.49	0.0	2.0	0.0	0.0	16.0
Motor & Pump P 305	Leq,D	97.5	2	483.38	-64.7	5.6	-20.7	-1.4	-1.57	0.0	0.3	0.0	0.0	15.0
Motor & Pump P 306	Leq,D	112.6	4	489.11	-64.8	5.5	-19.9	-1.3	-2.45	0.0	0.6	0.0	0.0	30.2
Motor & Pump P 307	Leq,D	102.1	2	476.20	-64.5	5.6	-24.1	-1.9	-1.17	0.0	0.3	0.0	0.0	16.2
Motor & Pump P 309	Leq,D	97.5	2	484.32	-64.7	5.6	-19.3	-1.4	-1.85	0.0	0.0	0.0	0.0	15.8
Motor & Pump P 312	Leq,D	101.5	2	462.91	-64.3	5.6	-14.0	-1.4	-2.30	0.0	0.3	0.0	0.0	25.4
Motor & Pump P 313	Leq,D	101.5	2	461.85	-64.3	5.6	-20.9	-1.4	-1.70	0.0	1.2	0.0	0.0	19.9
Motor & Pump P 315	Leq,D	102.9	2	458.30	-64.2	5.6	-23.7	-1.8	-0.48	0.0	0.6	0.0	0.0	19.0
Motor & Pump P 316	Leq,D	102.9	2	457.16	-64.2	5.6	-19.3	-1.3	-1.83	0.0	0.4	0.0	0.0	22.1
Motor & Pump P 317	Leq,D	102.9	2	455.94	-64.2	5.6	-19.1	-1.3	-1.23	0.0	0.3	0.0	0.0	22.9
Motor & Pump P 318	Leq,D	100.2	1	459.04	-64.2	5.7	-24.3	-1.9		0.0	2.1	0.0	0.0	17.5
Motor & Pump P 319	Leq,D	100.2	1	459.91	-64.2	5.7	-24.3	-1.9		0.0	2.2	0.0	0.0	17.5
Motor & Pump P 327	Leq,D	111.2	3	494.76	-64.9	5.6	-23.2	-2.5	-1.84	0.0	3.0	0.0	0.0	27.4
Motor & Pump P 328	Leq,D	109.9	5	485.34	-64.7	5.5	-20.4	-1.5	-1.52	0.0	1.4	0.0	0.0	28.7
Motor & Pump P 329	Leq,D	110.2	5	487.19	-64.7	5.5	-22.9	-1.7	-1.44	0.0	3.0	0.0	0.0	27.8
Motor & Pump P 451	Leq,D	93.7		411.28	-63.3	5.4	-22.9	-2.1	-0.51	0.0	1.1	0.0	0.0	11.4
Motor & Pump P 453	Leq,D	93.7		402.47	-63.1	5.4	-22.4	-1.9	-0.40	0.0	4.1	0.0	0.0	15.5
Motor & Pump P 454	Leq,D	93.7		412.75	-63.3	5.4	-22.3	-1.9	-0.51	0.0	0.9	0.0	0.0	12.0
Motor & Pump P 457	Leq,D	93.7		401.64	-63.1	5.4	-22.3	-1.9	-0.38	0.0	4.0	0.0	0.0	15.5
Motor & Pump P 458	Leq,D	93.7		410.33	-63.3	5.4	-23.0	-2.1	-0.52	0.0	1.1	0.0	0.0	11.3
Motor & Pump P 459	Leq,D	93.7		413.31	-63.3	5.4	-22.8	-2.1	-0.52	0.0	1.1	0.0	0.0	11.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		416.82	-63.4	5.5	-21.8	-1.8	-0.93	0.0	0.3	0.0	0.0	14.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		417.87	-63.4	5.5	-21.8	-1.8	-1.00	0.0	0.3	0.0	0.0	14.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		432.84	-63.7	5.5	-14.9	-1.8	-2.37	0.0	0.3	0.0	0.0	18.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		433.63	-63.7	5.5	-14.9	-1.8	-2.36	0.0	0.3	0.0	0.0	18.4
Motor & Pump P 1601 A	Leq,D	96.3	2	395.45	-62.9	5.3	-14.8	-1.6	-2.14	0.0	0.0	0.0	0.0	20.1
Motor & Pump P 1601 B	Leq,D	96.3	2	394.28	-62.9	5.3	-14.9	-1.6	-2.15	0.0	0.0	0.0	0.0	20.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1602 A	Leq,D	96.3	2	393.27	-62.9	5.3	-15.0	-1.6	-2.16	0.0	0.0	0.0	0.0	20.0
Motor & Pump P 1602 B	Leq,D	96.5	2	392.14	-62.9	5.3	-15.0	-1.6	-2.16	0.0	0.0	0.0	0.0	20.2
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	409.94	-63.2	5.5	-22.8	-2.1	-1.19	0.0	0.4	0.0	0.0	13.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	413.09	-63.3	5.5	-22.1	-1.9	-1.41	0.0	0.0	0.0	0.0	13.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	414.66	-63.3	5.5	-21.8	-1.8	-1.47	0.0	0.0	0.0	0.0	13.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	418.35	-63.4	5.5	-21.8	-1.8	-1.09	0.0	1.0	0.0	0.0	15.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	419.48	-63.4	5.5	-21.8	-1.8	-1.19	0.0	2.2	0.0	0.0	16.2
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	412.85	-63.3	5.5	-15.1	-1.7	-2.18	0.0	0.4	0.0	0.0	20.0
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	414.59	-63.3	5.5	-16.4	-1.7	-2.15	0.0	0.0	0.0	0.0	18.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	417.58	-63.4	5.5	-21.1	-1.8	-1.58	0.0	0.0	0.0	0.0	14.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	416.23	-63.4	5.5	-21.1	-1.7	-1.56	0.0	0.0	0.0	0.0	14.0
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	459.38	-64.2	5.4	-14.7	-1.4	-2.19	0.0	0.2	0.0	0.0	27.2
P-2 A/B	Leq,D	98.5		78.28	-48.9	4.5	-14.4	-0.3		0.0	0.3	0.0	0.0	39.8
P-50 A/B	Leq,D	98.1		108.79	-51.7	4.9	-19.1	-0.4	-0.22	0.0	0.4	0.0	0.0	32.0
P-51 A/B	Leq,D	98.1		104.93	-51.4	4.9	-19.4	-0.3	-0.22	0.0	0.5	0.0	0.0	32.1
P-060 A/B	Leq,D	98.1		118.52	-52.5	5.0	-22.6	-0.5	-0.26	0.0	1.0	0.0	0.0	28.4
P-63	Leq,D	98.5		77.45	-48.8	4.5	-23.4	-0.4		0.0	2.5	0.0	0.0	33.0
P-70 A/B	Leq,D	98.1		114.17	-52.1	5.0	-22.8	-0.5	-0.25	0.0	1.1	0.0	0.0	28.5
P-73 A/B	Leq,D	98.5		78.63	-48.9	4.5	-14.3	-0.3		0.0	0.4	0.0	0.0	39.9
P-251 A/B	Leq,D	98.2		215.99	-57.7	5.5	-12.8	-0.7	-1.21	0.0	0.7	0.0	0.0	32.0
P-252 A/B	Leq,D	98.2		219.47	-57.8	5.5	-16.1	-0.7	-1.78	0.0	0.4	0.0	0.0	27.7
P-253	Leq,D	98.2		213.30	-57.6	5.4	-16.1	-0.7	-1.80	0.0	0.4	0.0	0.0	27.9
P-254 A/B	Leq,D	98.2		206.60	-57.3	5.4	-12.9	-0.7	-1.36	0.0	0.3	0.0	0.0	31.7
P-255 A/B	Leq,D	98.2		209.44	-57.4	5.4	-12.8	-0.7	-1.32	0.0	0.3	0.0	0.0	31.7
P-255 A/B	Leq,D	98.2		222.21	-57.9	5.5	-14.1	-0.7	-1.13	0.0	1.1	0.0	0.0	30.9
P-256 A/B	Leq,D	98.2		213.15	-57.6	5.4	-12.8	-0.7	-1.26	0.0	0.7	0.0	0.0	32.0
P-259 A/B	Leq,D	98.2		219.00	-57.8	5.5	-12.6	-0.7	-1.17	0.0	0.6	0.0	0.0	31.9
P-260	Leq,D	99.1		235.70	-58.4	5.5	-12.5	-0.8	-1.63	0.0	0.6	0.0	0.0	31.9
P-261 A/B	Leq,D	98.0		256.12	-59.2	5.5	-13.5	-0.8	-0.98	0.0	0.1	0.0	0.0	29.2
P-262 A/B	Leq,D	99.1		243.01	-58.7	5.5	-13.7	-0.8	-1.53	0.0	0.8	0.0	0.0	30.7
P-263 A/B	Leq,D	99.4		239.60	-58.6	5.5	-12.4	-0.8	-1.60	0.0	0.6	0.0	0.0	32.2
P-270 A/B	Leq,D	98.5		175.19	-55.9	5.3	-17.4	-0.5	-2.01	0.0	0.0	0.0	0.0	28.0
P-271 A/B	Leq,D	98.2		198.65	-57.0	5.4	-17.5	-0.6	-1.39	0.0	0.5	0.0	0.0	27.6
P-272 A/B	Leq,D	98.2		202.48	-57.1	5.4	-17.0	-0.6	-1.39	0.0	0.7	0.0	0.0	28.2
P-273 A/B	Leq,D	98.5		177.65	-56.0	5.3	-17.6	-0.6	-2.04	0.0	0.0	0.0	0.0	27.7
P-275 A/B/C	Leq,D	98.2		204.61	-57.2	5.4	-16.4	-0.6	-1.94	0.0	0.3	0.0	0.0	27.8
P-305	Leq,D	99.3		127.54	-53.1	5.1	-17.8	-0.4	-0.30	0.0	0.8	0.0	0.0	33.5
P-306	Leq,D	100.8		119.17	-52.5	5.0	-14.1	-0.4	-0.26	0.0	0.0	0.0	0.0	38.6
P-309	Leq,D	99.3		125.53	-53.0	5.1	-17.9	-0.4	-0.30	0.0	0.1	0.0	0.0	32.9
P-328	Leq,D	100.8		114.33	-52.2	5.0	-14.0	-0.4	-0.24	0.0	0.0	0.0	0.0	39.0
P-329	Leq,D	100.8		116.75	-52.3	5.0	-14.2	-0.4	-0.26	0.0	0.0	0.0	0.0	38.6
P-353	Leq,D	98.5		133.78	-53.5	4.5	-9.0	-0.5	-0.75	0.0	0.9	0.0	0.0	40.0
P-358 A/B	Leq,D	99.4		136.59	-53.7	5.1	-21.1	-0.5	-1.00	0.0	0.0	0.0	0.0	28.3
P-359 A/B	Leq,D	99.4		132.85	-53.5	5.1	-15.0	-0.4	-0.92	0.0	1.0	0.0	0.0	35.7
P-360 A/B	Leq,D	99.4		125.86	-53.0	5.1	-14.9	-0.4	-0.87	0.0	0.9	0.0	0.0	36.2
P-361A	Leq,D	98.1		138.50	-53.8	4.5	-20.3	-0.5	-0.34	0.0	0.0	0.0	0.0	27.7
P-371 A/B	Leq,D	98.0		353.21	-62.0	5.4	-14.8	-1.1	-2.14	0.0	0.5	0.0	0.0	23.9
P-373 A/B	Leq,D	98.0		338.91	-61.6	5.4	-13.1	-1.1	-2.14	0.0	0.5	0.0	0.0	26.0
P-374 A/B	Leq,D	98.0		341.88	-61.7	5.4	-15.0	-1.0	-2.12	0.0	0.2	0.0	0.0	23.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-375 A/B	Leq,D	98.0		348.72	-61.8	5.4	-14.9	-1.1	-0.99	0.0	0.2	0.0	0.0	24.8
P-376	Leq,D	98.0		343.75	-61.7	5.4	-15.0	-1.0	-2.11	0.0	0.3	0.0	0.0	23.8
P-376 A/B	Leq,D	98.0		335.84	-61.5	5.4	-13.2	-1.0	-2.17	0.0	0.4	0.0	0.0	25.9
P-377	Leq,D	98.0		345.56	-61.8	5.4	-15.0	-1.1	-2.10	0.0	0.3	0.0	0.0	23.8
P-1101 A	Leq,D	98.9		98.39	-50.9	3.9	-13.3	-0.3		0.0	0.8	0.0	0.0	39.1
P-1103	Leq,D	98.9		98.65	-50.9	3.9	-23.8	-0.5		0.0	2.7	0.0	0.0	30.3
P-1105 A/B/C	Leq,D	98.9		98.00	-50.8	3.9	-13.3	-0.3		0.0	0.0	0.0	0.0	38.4
P-1800	Leq,D	98.9		58.52	-46.3	4.0	-24.8	-0.3		0.0	3.0	0.0	0.0	34.4
P-1801	Leq,D	98.9		90.73	-50.1	4.7	-24.8	-0.5		0.0	0.1	0.0	0.0	28.3
P-1802	Leq,D	98.9		92.31	-50.3	4.7	-24.7	-0.5		0.0	3.5	0.0	0.0	31.6
P-1803	Leq,D	99.1		146.83	-54.3	5.2	-21.6	-0.5		0.0	1.3	0.0	0.0	29.2
P-1804	Leq,D	99.1		129.36	-53.2	5.1	-21.8	-0.5		0.0	3.0	0.0	0.0	31.7
P-1805	Leq,D	99.1		129.05	-53.2	5.1	-20.2	-0.4		0.0	1.1	0.0	0.0	31.5
P-1806	Leq,D	99.1		153.56	-54.7	5.2	-20.4	-0.5	-0.86	0.0	0.1	0.0	0.0	28.0
P-1809 A	Leq,D	98.9		67.99	-47.6	4.3	-24.8	-0.4		0.0	2.4	0.0	0.0	32.7
P-1810 A/B/C	Leq,D	99.0		140.51	-53.9	5.2	-14.3	-0.5		0.0	1.4	0.0	0.0	36.8
P-1811 A/B	Leq,D	99.1		151.15	-54.6	5.2	-20.6	-0.5	-0.75	0.0	2.5	0.0	0.0	30.4
P-1811 A/B	Leq,D	99.1		128.67	-53.2	5.1	-14.0	-0.4		0.0	0.3	0.0	0.0	36.9
P-1847 A/B	Leq,D	99.4		214.73	-57.6	5.5	-22.9	-0.8		0.0	0.4	0.0	0.0	23.9
P-1849 A/B	Leq,D	99.4		213.69	-57.6	5.4	-23.1	-0.8		0.0	1.9	0.0	0.0	25.3
P-1853	Leq,D	99.1		175.38	-55.9	5.3	-23.9	-0.8		0.0	8.0	0.0	0.0	31.9
Piping Furnace Tanks	Leq,D	87.1	72	321.42	-61.1	3.8	-17.6	-4.5	-1.44	0.0	1.1	0.0	0.0	7.2
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	316.95	-61.0	4.0	-17.4	-4.4	-1.85	0.0	0.9	0.0	0.0	18.6
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	358.09	-62.1	4.8	-21.7	-2.5	-1.62	0.0	1.5	0.0	0.0	33.0
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	355.12	-62.0	4.8	-23.5	-5.9	-1.58	0.0	1.1	0.0	0.0	28.0
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	197.28	-56.9	3.3	-24.7	-1.0		0.0	0.6	0.0	0.0	31.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	213.98	-57.6	3.1	-24.8	-1.1		0.0	0.7	0.0	0.0	31.5
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	202.82	-57.1	3.4	-24.2	-0.9		0.0	0.8	0.0	0.0	26.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	174.19	-55.8	3.0	-24.1	-0.8		0.0	0.9	0.0	0.0	34.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	185.86	-56.4	3.4	-21.1	-0.7		0.0	0.1	0.0	0.0	29.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	207.16	-57.3	3.4	-22.3	-0.8		0.0	1.0	0.0	0.0	27.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	194.24	-56.8	3.0	-20.3	-0.6		0.0	0.2	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	178.38	-56.0	3.4	-18.8	-0.6		0.0	0.0	0.0	0.0	34.1
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	193.71	-56.7	3.0	-21.7	-0.7		0.0	0.2	0.0	0.0	37.2
PSA Pipe 3" Lagging	Leq,D	80.6	11	346.06	-61.8	3.2	-12.4	-2.3	-0.69	0.0	0.1	0.0	0.0	6.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	360.16	-62.1	4.8	-21.4	-2.4	-1.75	0.0	1.6	0.0	0.0	35.2
Reformer-Burner Reformer East	Leq,D	97.3	269	327.50	-61.3	3.0	-24.7	-2.1	0.00	0.0	9.6	0.0	0.0	24.7
Reformer-Burner Reformer North	Leq,D	95.9	192	327.69	-61.3	3.2	-24.6	-2.0	-0.02	0.0	0.0	0.0	0.0	11.2
Reformer-Burner Reformer South	Leq,D	95.8	191	316.32	-61.0	3.3	-14.1	-1.2	-0.57	0.0	1.7	0.0	0.0	26.7
Reformer-Burner Reformer West	Leq,D	97.3	268	316.62	-61.0	3.4	-11.0	-1.2	-0.66	0.0	0.0	0.0	0.0	29.8
RFG A from battery to process	Leq,D	99.4	87	312.42	-60.9	3.9	-17.5	-4.4	-1.84	0.0	0.8	0.0	0.0	19.5
RFG A from battery to process w NC	Leq,D	115.2	42	357.18	-62.0	4.8	-23.1	-5.6	-1.62	0.0	1.5	0.0	0.0	29.1
Stack Noise	Leq,D	108.4		302.43	-60.6	3.0	-7.4	-0.7		-5.5	0.0	0.0	0.0	37.1
Steam Turbine-Facade 01	Leq,D	99.6	29	350.15	-61.9	5.2	-17.7	-2.3	-2.03	0.0	0.6	0.0	0.0	21.4
Steam Turbine-Facade 02	Leq,D	96.2	13	348.58	-61.8	5.2	-17.3	-2.3	-1.99	0.0	2.7	0.0	0.0	20.7
Steam Turbine-Facade 03	Leq,D	99.6	29	352.74	-61.9	5.2	-23.3	-3.7	-1.95	0.0	7.9	0.0	0.0	21.8
Steam Turbine-Facade 04	Leq,D	96.2	13	354.34	-62.0	5.2	-23.3	-3.7	-1.99	0.0	2.5	0.0	0.0	13.1
Steam Turbine-Roof 01	Leq,D	99.7	30	351.45	-61.9	4.7	-16.3	-2.4	-2.02	0.0	2.6	0.0	0.0	24.4
Tank Farm Pump 1	Leq,D	99.0	3	238.27	-58.5	5.1	-19.7	-1.1		0.0	0.3	0.0	0.0	25.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Tank Farm Pump 2	Leq,D	99.0	3	234.95	-58.4	5.1	-23.0	-1.3		0.0	2.1	0.0	0.0	23.6
Tank Farm Pump 3	Leq,D	99.0	3	234.15	-58.4	5.1	-23.0	-1.3		0.0	0.9	0.0	0.0	22.3
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	484.60	-64.7	4.8	-14.7	-1.2		0.0	0.2	-11.8	0.0	25.1
XF-1502 Splitter Area 1	Leq,D	104.5		414.04	-63.3	3.6	-8.5	-1.8	-0.89	-3.6	0.0	0.0	0.0	30.0
XF-1502 Splitter Area 2	Leq,D	104.5		411.62	-63.3	3.6	-8.5	-1.8	-0.86	-3.6	0.0	0.0	0.0	30.1
XF-1504 Splitter Area 1	Leq,D	104.5		410.69	-63.3	3.6	-8.5	-1.8	-0.81	-3.6	0.0	0.0	0.0	30.1
XF-1504 Splitter Area 2	Leq,D	104.5		408.25	-63.2	3.5	-8.5	-1.8	-0.79	-3.6	0.0	0.0	0.0	30.2
XF 251, 250, 271, 270	Leq,D	101.1	128	201.95	-57.1	3.0	-7.3	-0.5	-1.46	-2.3	0.1	0.0	0.0	35.5
XF 260, 261A, 261 B	Leq,D	99.9	97	244.35	-58.8	3.0	-7.1	-0.5	-0.61	-2.3	0.1	0.0	0.0	33.6
XF 304, XF 321	Leq,D	110.5	56	483.42	-64.7	3.9	-9.7	-0.9	-0.39	-2.0	0.1	0.0	0.0	36.9
XF 313, XF 314	Leq,D	113.0	18	502.75	-65.0	4.4	-13.6	-1.2	-0.90	-2.7	0.6	0.0	0.0	34.6
XF 335-1, XF 335-2	Leq,D	113.4	54	490.91	-64.8	4.0	-11.5	-1.3	-0.42	-2.1	0.1	0.0	0.0	37.4
XF 353A/B	Leq,D	95.4	35	125.80	-53.0	3.0	-7.6	-0.3	-0.67	-2.2	0.2	0.0	0.0	34.9
XF 353A/B	Leq,D	95.4	35	150.32	-54.5	3.0	-7.7	-0.3	-1.16	-2.2	0.0	0.0	0.0	32.5
XF 354A/B	Leq,D	95.4	35	131.48	-53.4	3.0	-7.0	-0.3	-0.49	-2.4	0.8	0.0	0.0	35.7
XF 503	Leq,D	113.0	21	438.74	-63.8	4.3	-16.0	-1.2	-0.84	-2.9	0.1	0.0	0.0	32.8
XF - 1601	Leq,D	96.6		393.22	-62.9	3.0	-7.0	-0.9	-0.06	-1.8	0.0	0.0	0.0	27.0
XF - 1602	Leq,D	96.6		388.79	-62.8	3.0	-7.0	-0.9	-0.08	-1.8	0.0	0.0	0.0	27.1
XF Module 1510	Leq,D	108.3		413.68	-63.3	3.8	-8.5	-1.8	-1.05	-3.6	0.3	0.0	0.0	34.1
XF Module 1519	Leq,D	109.0		417.08	-63.4	3.8	-8.5	-1.8	-1.21	-3.6	0.0	0.0	0.0	34.3
xxxx xxxx xxxx xxxx	Leq,D		228								12.7			17.8
xxxx xxxx xxxx xxxx	Leq,D		520								14.0			27.2
xxxx xxxx xxxx xxxx	Leq,D		1341								7.8			46.3
xxxx xxxx xxxx xxxx	Leq,D		450								3.0			40.0
Receiver S-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.2 dB(A) Ld 7-19 dB(A) Leq,N 58.8 dB(A) Le 19-22 dB(A) CNEL 65.5 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	278.48	-59.9	4.9	-21.0	-1.3	-1.72	0.0	1.3	0.0	0.0	26.7
18-1855 A/B	Leq,D	98.8		200.93	-57.1	5.1	-15.1	-0.6	-0.96	0.0	2.3	0.0	0.0	32.4
18-1856 A/B	Leq,D	98.8		197.52	-56.9	5.0	-15.0	-0.6	-1.34	0.0	1.7	0.0	0.0	31.6
18-1857 A/B	Leq,D	98.8		204.43	-57.2	5.1	-15.1	-0.6	-0.89	0.0	2.3	0.0	0.0	32.3
18-1858 A/B	Leq,D	98.8		206.85	-57.3	4.8	-14.8	-0.7	-0.85	0.0	2.7	0.0	0.0	32.7
18-PK 1802 Air Compressor Package	Leq,D	103.1		183.11	-56.2	5.4	-13.1	-0.3	-1.50	0.0	0.9	0.0	0.0	38.2
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	231.71	-58.3	4.7	-7.0	-1.5		0.0	2.3	-2.7	0.0	46.4
Air Compressor C 1	Leq,D	110.0	5	431.62	-63.7	5.6	-22.4	-1.2	-0.64	0.0	8.0	0.0	0.0	35.6
Air Compressor Pump	Leq,D	100.3		239.57	-58.6	5.0	-24.0	-2.5	-0.74	0.0	2.8	0.0	0.0	22.3
Blower F 401	Leq,D	113.0		350.60	-61.9	5.2	-17.1	-0.4		0.0	2.9	0.0	0.0	41.7
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	52.13	-45.3	3.0	-23.2	-0.2		0.0	8.3	0.0	0.0	41.1
Boiler Feed Water Pump A	Leq,D	97.1	3	219.42	-57.8	5.0	-13.0	-0.8	-1.80	0.0	0.7	0.0	0.0	29.4
Boiler Feed Water Pump B	Leq,D	97.1	3	216.30	-57.7	5.0	-13.0	-0.7	-1.76	0.0	2.0	0.0	0.0	30.8
C370 A Motor	Leq,D	103.6	3	271.45	-59.7	4.4	-12.5	-1.0	-0.89	0.0	2.5	0.0	0.0	36.5
C370 B Motor	Leq,D	108.6	3	264.56	-59.4	4.4	-14.0	-0.9	-0.90	0.0	2.1	0.0	0.0	39.8
C370A	Leq,D	103.8	5	274.73	-59.8	4.5	-12.4	-1.0	-0.88	0.0	2.5	0.0	0.0	36.7
C370B	Leq,D	103.8	5	267.93	-59.6	4.5	-15.1	-0.9	-0.92	0.0	2.4	0.0	0.0	34.2
C-270 A	Leq,D	106.3	6	118.43	-52.5	3.0	-16.7	-0.4	-0.86	0.0	1.7	0.0	0.0	40.6
C-270 B	Leq,D	106.3	6	120.73	-52.6	3.0	-16.6	-0.4	-0.68	0.0	1.6	0.0	0.0	40.6
C-270 C	Leq,D	106.3	6	123.23	-52.8	3.0	-16.8	-0.4	-0.46	0.0	2.0	0.0	0.0	40.8
C-301 Compressor	Leq,D	106.8	3	135.24	-53.6	3.1	-14.6	-0.5	-1.43	0.0	0.3	0.0	0.0	40.1
C-301 Motor	Leq,D	106.8	4	136.43	-53.7	3.2	-15.9	-0.8	-1.62	0.0	1.4	0.0	0.0	39.4
C-351 Compressor	Leq,D	106.8	4	117.04	-52.4	3.0	-14.1	-0.4	-1.07	0.0	3.3	0.0	0.0	45.2
C-351 Motor	Leq,D	106.8	5	112.49	-52.0	3.0	-12.5	-0.7	-1.07	0.0	3.5	0.0	0.0	47.0
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	237.64	-58.5	4.9	-5.3	-0.5		0.0	2.3	-33.5	0.0	44.1
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	398.72	-63.0	5.0	-13.3	-1.1	-0.92	1.7	3.5	0.0	0.0	36.7
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	398.66	-63.0	5.0	-10.0	-1.4	-0.96	0.0	1.8	0.0	0.0	32.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	409.54	-63.2	5.0	-20.5	-0.9	-0.92	-7.4	9.5	0.0	0.0	28.0
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	405.05	-63.1	5.0	-15.2	-1.1	-1.00	2.9	0.9	0.0	0.0	39.0
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	398.58	-63.0	5.0	-14.1	-1.0	-0.92	2.8	3.8	0.0	0.0	36.3
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	416.01	-63.4	5.0	-20.4	-1.2	-0.99	-7.8	2.0	0.0	0.0	13.8
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	345.44	-61.8	4.9	-16.3	-0.8	-0.25	2.4	2.6	0.0	0.0	28.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	354.30	-62.0	4.9	-20.9	-1.1	-0.64	-7.7	2.0	0.0	0.0	12.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	327.51	-61.3	4.5	-9.1	-1.1	-0.43	2.6	2.2	0.0	0.0	38.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	339.88	-61.6	4.7	-21.8	-1.1	-0.57	-7.7	5.3	0.0	0.0	17.9
Cooling Tower M 512	Leq,D	95.7		345.44	-61.8	5.3	-17.9	-1.3	-0.60	0.0	5.9	0.0	0.0	25.5
Cooling Tower M 513	Leq,D	95.7		346.40	-61.8	5.3	-17.8	-1.3	-0.60	0.0	5.9	0.0	0.0	25.5
Cooling Tower M 514	Leq,D	95.7		344.25	-61.7	5.3	-17.9	-1.2	-0.60	0.0	5.5	0.0	0.0	25.0
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	247.34	-58.9	3.0	-8.8	-0.5	-1.60	-2.1	0.1	0.0	0.0	27.0
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	289.95	-60.2	4.8	-8.4	-0.1	-0.55	0.0	0.4	0.0	0.0	31.4
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	292.44	-60.3	4.8	-14.6	-0.1	-0.40	0.0	2.8	0.0	0.0	25.3
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	290.50	-60.3	4.2	-10.1	-0.1	-0.35	0.0	0.1	0.0	0.0	26.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	288.43	-60.2	4.7	-8.6	-0.1	-0.09	0.0	0.0	0.0	0.0	29.0
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	290.90	-60.3	4.8	-15.8	-0.1		0.0	0.6	0.0	0.0	24.6
FD Motor	Leq,D	103.3	2	289.57	-60.2	5.0	-15.5	-1.4	-1.82	0.0	0.5	0.0	0.0	29.8
Feed Compressor -B Motor	Leq,D	103.8	5	237.00	-58.5	4.2	-16.4	-1.2	-0.94	0.0	3.2	0.0	0.0	34.2
Feed Compressor-A Compressor	Leq,D	104.0	5	249.77	-58.9	4.5	-15.3	-0.8	-0.93	0.0	2.4	0.0	0.0	34.9
Feed Compressor-A Motor	Leq,D	103.8	6	245.48	-58.8	4.2	-16.2	-1.2	-1.09	0.0	3.2	0.0	0.0	33.9
Feed Compressor-B Compressor	Leq,D	104.0	7	241.91	-58.7	4.4	-15.9	-0.8	-0.78	0.0	2.1	0.0	0.0	34.4
H2S Compressor 18-C-271	Leq,D	105.3	6	406.40	-63.2	5.3	-17.6	-1.2	-0.27	0.0	6.0	0.0	0.0	34.4
Heater # 5-Heater	Leq,D	91.1	13	56.27	-46.0	3.1	-20.2	-0.1		0.0	4.0	0.0	0.0	34.8
Heater # 5-Heater	Leq,D	91.1	13	58.90	-46.4	3.1	-18.6	-0.1		0.0	1.3	0.0	0.0	33.3
Heater # 5-Heater	Leq,D	91.1	13	54.02	-45.6	3.1	-12.3	-0.1		0.0	1.7	0.0	0.0	40.7
Hydro Heater H-402	Leq,D	98.1		365.49	-62.2	5.4	-17.6	-0.6		0.0	3.9	0.0	0.0	26.9
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	276.31	-59.8	4.9	-11.7	-0.1	-0.29	0.0	0.0	0.0	0.0	20.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	274.09	-59.7	4.9	-6.3	-0.1	-0.37	0.0	0.7	0.0	0.0	26.5
ID Fan-ID Fan - North	Leq,D	92.2	8	277.20	-59.8	4.9	-12.7	-0.1	-0.27	0.0	0.1	0.0	0.0	24.4
ID Fan-ID Fan - North 2	Leq,D	91.4	7	275.53	-59.8	4.9	-13.6	-0.1	-0.28	0.0	0.0	0.0	0.0	22.6
ID Fan-ID Fan - South	Leq,D	92.3	9	274.14	-59.8	4.9	-6.3	-0.1	-0.37	0.0	0.0	0.0	0.0	30.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	274.10	-59.8	4.9	-6.3	-0.1	-0.37	0.0	0.0	0.0	0.0	29.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	275.44	-59.8	4.4	-6.2	-0.1	-0.39	0.0	0.0	0.0	0.0	31.8
Motor & Pump P 56A/B	Leq,D	93.7		382.04	-62.6	5.4	-20.9	-1.6	-0.19	0.0	10.0	0.0	0.0	23.7
Motor & Pump P 120/121	Leq,D	96.2	2	422.15	-63.5	5.5	-21.1	-1.3	-1.11	0.0	4.2	0.0	0.0	18.8
Motor & Pump P 211/212	Leq,D	93.7		381.24	-62.6	5.5	-13.7	-1.6	-0.72	0.0	2.6	0.0	0.0	23.1
Motor & Pump P 215/214	Leq,D	94.6		384.59	-62.7	5.5	-12.4	-1.7	-0.73	0.0	2.7	0.0	0.0	25.3
Motor & Pump P 216	Leq,D	98.3		386.83	-62.7	5.4	-20.9	-2.0	-0.20	0.0	10.3	0.0	0.0	28.1
Motor & Pump P 217/218	Leq,D	93.7		382.59	-62.6	5.6	-14.5	-1.6	-0.73	0.0	2.6	0.0	0.0	22.4
Motor & Pump P 300	Leq,D	97.1	2	432.22	-63.7	5.6	-22.0	-1.4	-0.51	0.0	5.4	0.0	0.0	20.4
Motor & Pump P 301	Leq,D	102.1	2	431.05	-63.7	5.5	-22.4	-1.5	-0.49	0.0	6.4	0.0	0.0	26.0
Motor & Pump P 302	Leq,D	97.1	2	433.47	-63.7	5.6	-21.8	-1.4	-0.53	0.0	5.3	0.0	0.0	20.6
Motor & Pump P 303	Leq,D	97.1	2	434.58	-63.8	5.5	-21.4	-1.4	-0.55	0.0	4.8	0.0	0.0	20.4
Motor & Pump P 305	Leq,D	97.5	2	435.63	-63.8	5.5	-21.1	-1.3	-0.57	0.0	4.2	0.0	0.0	20.4
Motor & Pump P 306	Leq,D	112.6	4	441.98	-63.9	5.5	-19.9	-1.3	-1.55	0.0	4.0	0.0	0.0	35.5
Motor & Pump P 307	Leq,D	102.1	2	427.69	-63.6	5.5	-23.0	-1.6	-0.41	0.0	3.1	0.0	0.0	22.1
Motor & Pump P 309	Leq,D	97.5	2	436.67	-63.8	5.5	-20.9	-1.3	-0.60	0.0	3.9	0.0	0.0	20.3
Motor & Pump P 312	Leq,D	101.5	2	412.88	-63.3	5.6	-22.6	-1.6		0.0	7.8	0.0	0.0	27.4
Motor & Pump P 313	Leq,D	101.5	2	411.71	-63.3	5.6	-20.7	-1.3	-0.50	0.0	6.5	0.0	0.0	27.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 315	Leq,D	102.9	2	407.69	-63.2	5.5	-19.5	-1.2	-0.53	0.0	2.2	0.0	0.0	26.2
Motor & Pump P 316	Leq,D	102.9	2	406.41	-63.2	5.5	-18.7	-1.2	-0.66	0.0	2.4	0.0	0.0	27.1
Motor & Pump P 317	Leq,D	102.9	2	405.06	-63.1	5.5	-18.6	-1.2	-0.72	0.0	2.3	0.0	0.0	27.0
Motor & Pump P 318	Leq,D	100.2	1	408.60	-63.2	5.6	-19.8	-1.2	-0.79	0.0	2.3	0.0	0.0	23.2
Motor & Pump P 319	Leq,D	100.2	1	409.57	-63.2	5.6	-19.7	-1.2	-0.76	0.0	2.3	0.0	0.0	23.2
Motor & Pump P 327	Leq,D	111.2	3	448.12	-64.0	5.5	-24.2	-2.7		0.0	6.5	0.0	0.0	32.4
Motor & Pump P 328	Leq,D	109.9	5	437.82	-63.8	5.4	-20.9	-1.3	-0.76	0.0	4.5	0.0	0.0	33.0
Motor & Pump P 329	Leq,D	110.2	5	439.86	-63.9	5.5	-21.0	-1.4	-1.19	0.0	5.0	0.0	0.0	33.1
Motor & Pump P 451	Leq,D	93.7		360.17	-62.1	5.4	-21.1	-1.7		0.0	9.2	0.0	0.0	23.3
Motor & Pump P 453	Leq,D	93.7		350.61	-61.9	5.3	-17.3	-1.4		0.0	6.2	0.0	0.0	24.5
Motor & Pump P 454	Leq,D	93.7		361.59	-62.2	5.4	-21.0	-1.7		0.0	3.3	0.0	0.0	17.5
Motor & Pump P 457	Leq,D	93.7		349.67	-61.9	5.3	-6.9	-2.1		0.0	1.3	0.0	0.0	29.4
Motor & Pump P 458	Leq,D	93.7		359.28	-62.1	5.4	-21.2	-1.7		0.0	9.4	0.0	0.0	23.4
Motor & Pump P 459	Leq,D	93.7		362.22	-62.2	5.4	-21.0	-1.7		0.0	2.2	0.0	0.0	16.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		368.86	-62.3	5.4	-21.6	-1.7	-0.87	0.0	3.1	0.0	0.0	18.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		370.05	-62.4	5.4	-21.3	-1.6	-0.91	0.0	3.1	0.0	0.0	18.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		388.26	-62.8	5.5	-22.6	-2.0	-1.27	0.0	3.8	0.0	0.0	16.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		389.14	-62.8	5.5	-13.1	-1.7	-1.25	0.0	2.9	0.0	0.0	25.0
Motor & Pump P 1601 A	Leq,D	96.3	2	349.67	-61.9	5.2	-22.4	-1.7	-1.00	0.0	4.1	0.0	0.0	18.6
Motor & Pump P 1601 B	Leq,D	96.3	2	348.62	-61.8	5.2	-22.4	-1.7	-1.00	0.0	4.1	0.0	0.0	18.6
Motor & Pump P 1602 A	Leq,D	96.3	2	347.69	-61.8	5.2	-16.1	-1.6	-1.00	0.0	3.0	0.0	0.0	24.0
Motor & Pump P 1602 B	Leq,D	96.5	2	346.69	-61.8	5.2	-13.2	-1.6	-1.00	0.0	3.2	0.0	0.0	27.4
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	362.69	-62.2	5.5	-22.5	-1.9	-0.82	0.0	3.1	0.0	0.0	17.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	366.22	-62.3	5.5	-22.9	-2.0	-0.80	0.0	3.3	0.0	0.0	17.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	367.99	-62.3	5.5	-22.1	-1.8	-1.05	0.0	3.3	0.0	0.0	18.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	370.68	-62.4	5.4	-21.5	-1.7	-0.83	0.0	4.1	0.0	0.0	19.8
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	371.94	-62.4	5.4	-21.7	-1.7	-0.75	0.0	3.8	0.0	0.0	19.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	367.11	-62.3	5.5	-21.1	-1.6	-1.04	0.0	3.7	0.0	0.0	19.5
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	368.67	-62.3	5.5	-21.0	-1.6	-1.11	0.0	3.7	0.0	0.0	19.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	371.35	-62.4	5.5	-21.1	-1.6	-1.15	0.0	3.7	0.0	0.0	19.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	370.13	-62.4	5.5	-21.0	-1.6	-1.13	0.0	3.6	0.0	0.0	19.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	414.53	-63.3	5.3	-14.9	-1.5	-1.21	0.0	3.0	0.0	0.0	31.5
P-2 A/B	Leq,D	98.5		98.43	-50.9	4.8	-16.4	-0.3		0.0	0.1	0.0	0.0	35.8
P-50 A/B	Leq,D	98.1		103.38	-51.3	4.9	-13.3	-0.3	-0.92	0.0	0.4	0.0	0.0	37.5
P-51 A/B	Leq,D	98.1		99.28	-50.9	4.8	-13.5	-0.3	-0.83	0.0	0.1	0.0	0.0	37.4
P-060 A/B	Leq,D	98.1		113.49	-52.1	5.0	-12.9	-0.4	-1.10	0.0	0.0	0.0	0.0	36.6
P-63	Leq,D	98.5		75.09	-48.5	4.4	-15.1	-0.2	-0.13	0.0	0.2	0.0	0.0	39.1
P-70 A/B	Leq,D	98.1		108.96	-51.7	4.9	-13.1	-0.4	-1.05	0.0	0.4	0.0	0.0	37.2
P-73 A/B	Leq,D	98.5		95.80	-50.6	4.8	-21.7	-0.4		0.0	0.0	0.0	0.0	30.6
P-251 A/B	Leq,D	98.2		168.04	-55.5	5.3	-7.6	-0.7	-0.42	0.0	2.9	0.0	0.0	42.2
P-252 A/B	Leq,D	98.2		173.80	-55.8	5.3	-7.6	-0.7	-0.70	0.0	2.7	0.0	0.0	41.4
P-253	Leq,D	98.2		168.92	-55.5	5.3	-15.5	-0.5	-0.79	0.0	4.4	0.0	0.0	35.5
P-254 A/B	Leq,D	98.2		160.45	-55.1	5.3	-7.7	-0.6	-0.39	0.0	3.1	0.0	0.0	42.7
P-255 A/B	Leq,D	98.2		162.72	-55.2	5.3	-7.7	-0.6	-0.40	0.0	3.3	0.0	0.0	42.9
P-255 A/B	Leq,D	98.2		173.27	-55.8	5.3	-20.5	-0.6	-0.45	0.0	2.7	0.0	0.0	28.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		165.73	-55.4	5.3	-7.6	-0.7	-0.41	0.0	3.4	0.0	0.0	42.8
P-259 A/B	Leq,D	98.2		170.56	-55.6	5.3	-10.7	-0.6	-0.43	0.0	2.8	0.0	0.0	39.0
P-260	Leq,D	99.1		187.26	-56.4	5.4	-19.7	-0.6	-0.78	0.0	2.6	0.0	0.0	29.5
P-261 A/B	Leq,D	98.0		204.98	-57.2	5.4	-18.9	-0.6	-0.33	0.0	2.5	0.0	0.0	28.8
P-262 A/B	Leq,D	99.1		193.52	-56.7	5.4	-19.6	-0.6	-0.63	0.0	2.6	0.0	0.0	29.5
P-263 A/B	Leq,D	99.4		190.63	-56.6	5.4	-19.7	-0.6	-0.75	0.0	2.6	0.0	0.0	29.8
P-270 A/B	Leq,D	98.5		138.79	-53.8	5.2	-14.6	-0.5	-1.60	0.0	1.6	0.0	0.0	34.8
P-271 A/B	Leq,D	98.2		154.26	-54.8	5.2	-15.7	-0.5	-0.53	0.0	2.5	0.0	0.0	34.4
P-272 A/B	Leq,D	98.2		157.21	-54.9	5.3	-7.8	-0.6	-0.43	0.0	1.1	0.0	0.0	40.8
P-273 A/B	Leq,D	98.5		140.26	-53.9	5.2	-14.6	-0.5	-1.62	0.0	3.6	0.0	0.0	36.7
P-275 A/B/C	Leq,D	98.2		162.41	-55.2	5.3	-17.4	-0.5	-0.71	0.0	5.4	0.0	0.0	35.1
P-305	Leq,D	99.3		81.29	-49.2	4.5	-20.3	-0.3	-0.20	0.0	3.0	0.0	0.0	36.9
P-306	Leq,D	100.8		76.12	-48.6	4.5	-20.2	-0.3	-0.18	0.0	2.5	0.0	0.0	38.4
P-309	Leq,D	99.3		80.02	-49.1	4.5	-21.0	-0.3	-0.20	0.0	3.1	0.0	0.0	36.3
P-328	Leq,D	100.8		73.48	-48.3	4.4	-19.9	-0.3	-0.17	0.0	0.7	0.0	0.0	37.3
P-329	Leq,D	100.8		74.84	-48.5	4.4	-19.8	-0.3	-0.18	0.0	1.1	0.0	0.0	37.6
P-353	Leq,D	98.5		92.27	-50.3	3.8	-16.8	-0.3	-0.53	0.0	3.5	0.0	0.0	37.8
P-358 A/B	Leq,D	99.4		108.56	-51.7	4.9	-12.9	-0.4	-1.03	0.0	2.1	0.0	0.0	40.4
P-359 A/B	Leq,D	99.4		103.88	-51.3	4.9	-13.0	-0.4	-0.92	0.0	0.1	0.0	0.0	38.7
P-360 A/B	Leq,D	99.4		94.83	-50.5	4.8	-13.3	-0.3	-0.71	0.0	2.1	0.0	0.0	41.5
P-361A	Leq,D	98.1		133.86	-53.5	4.5	-23.9	-0.6	-0.44	0.0	5.5	0.0	0.0	29.6
P-371 A/B	Leq,D	98.0		305.33	-60.7	5.3	-18.0	-0.9	-0.98	0.0	4.4	0.0	0.0	27.1
P-373 A/B	Leq,D	98.0		292.86	-60.3	5.3	-14.3	-0.9	-0.18	0.0	3.6	0.0	0.0	31.1
P-374 A/B	Leq,D	98.0		295.46	-60.4	5.3	-14.2	-0.9	-0.15	0.0	3.0	0.0	0.0	30.7
P-375 A/B	Leq,D	98.0		301.53	-60.6	5.3	-17.8	-0.9	-1.07	0.0	6.0	0.0	0.0	29.0
P-376	Leq,D	98.0		297.10	-60.5	5.3	-14.0	-0.9	-1.05	0.0	3.1	0.0	0.0	29.9
P-376 A/B	Leq,D	98.0		290.20	-60.2	5.3	-14.4	-0.9	-1.02	0.0	3.6	0.0	0.0	30.4
P-377	Leq,D	98.0		298.71	-60.5	5.3	-17.8	-0.9	-1.06	0.0	5.5	0.0	0.0	28.6
P-1101 A	Leq,D	98.9		109.88	-51.8	4.1	-23.8	-0.5		0.0	5.8	0.0	0.0	32.6
P-1103	Leq,D	98.9		109.27	-51.8	4.1	-23.7	-0.5		0.0	5.6	0.0	0.0	32.6
P-1105 A/B/C	Leq,D	98.9		112.72	-52.0	4.2	-23.6	-0.5		0.0	6.2	0.0	0.0	33.2
P-1800	Leq,D	98.9		99.02	-50.9	4.8	-16.0	-0.3		0.0	3.6	0.0	0.0	40.1
P-1801	Leq,D	98.9		144.45	-54.2	5.2	-24.8	-0.8		0.0	2.2	0.0	0.0	26.5
P-1802	Leq,D	98.9		145.41	-54.2	5.2	-24.8	-0.8		0.0	3.5	0.0	0.0	27.7
P-1803	Leq,D	99.1		147.22	-54.4	5.2	-12.6	-0.5	-1.25	0.0	1.5	0.0	0.0	37.0
P-1804	Leq,D	99.1		136.10	-53.7	5.1	-23.0	-0.5	-0.34	0.0	0.0	0.0	0.0	26.7
P-1805	Leq,D	99.1		137.28	-53.7	5.1	-22.9	-0.5	-0.24	0.0	0.0	0.0	0.0	26.8
P-1806	Leq,D	99.1		143.65	-54.1	5.2	-12.3	-0.5	-0.08	0.0	1.1	0.0	0.0	38.4
P-1809 A	Leq,D	98.9		111.93	-52.0	4.9	-24.9	-0.6		0.0	11.4	0.0	0.0	37.7
P-1810 A/B/C	Leq,D	99.0		149.12	-54.5	5.2	-21.5	-0.5	-0.30	0.0	1.6	0.0	0.0	29.0
P-1811 A/B	Leq,D	99.1		144.11	-54.2	5.2	-12.3	-0.5	-0.51	0.0	3.7	0.0	0.0	40.5
P-1811 A/B	Leq,D	99.1		138.71	-53.8	5.1	-21.5	-0.5	-0.13	0.0	0.9	0.0	0.0	29.2
P-1847 A/B	Leq,D	99.4		212.31	-57.5	5.4	-22.7	-0.8		0.0	0.0	0.0	0.0	23.9
P-1849 A/B	Leq,D	99.4		213.23	-57.6	5.4	-23.0	-0.8		0.0	1.7	0.0	0.0	25.2
P-1853	Leq,D	99.1		123.26	-52.8	5.0	-24.1	-0.6		0.0	2.8	0.0	0.0	29.4
Piping Furnace Tanks	Leq,D	87.1	72	285.48	-60.1	3.6	-16.7	-4.3	-1.03	0.0	3.5	0.0	0.0	12.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	276.99	-59.8	3.7	-17.8	-4.1	-0.82	0.0	3.4	0.0	0.0	22.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	317.70	-61.0	4.6	-22.0	-2.2	-0.73	0.0	3.1	0.0	0.0	36.3
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	314.92	-61.0	4.6	-23.6	-5.6	-0.69	0.0	2.7	0.0	0.0	31.6
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	223.13	-58.0	3.5	-23.9	-1.0		0.0	0.5	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	230.82	-58.3	3.6	-24.1	-1.0	-0.13	0.0	5.2	0.0	0.0	36.4
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	212.62	-57.5	3.5	-24.0	-0.9	-0.50	0.0	3.0	0.0	0.0	27.5
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	194.58	-56.8	3.4	-18.7	-0.6	-0.02	0.0	0.2	0.0	0.0	38.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	196.58	-56.9	3.4	-20.0	-0.7	-0.41	0.0	6.9	0.0	0.0	36.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	218.14	-57.8	3.5	-22.2	-0.8	-0.46	0.0	2.3	0.0	0.0	28.2
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	202.98	-57.1	3.5	-17.9	-0.7	-0.45	0.0	3.5	0.0	0.0	37.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	191.12	-56.6	3.4	-17.8	-0.6	-0.21	0.0	1.4	0.0	0.0	35.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	211.58	-57.5	3.0	-14.6	-0.7	-0.11	0.0	2.0	0.0	0.0	45.2
PSA Pipe 3" Lagging	Leq,D	80.6	11	307.69	-60.8	3.1	-13.9	-2.0	-0.45	0.0	2.8	0.0	0.0	9.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	319.41	-61.1	4.6	-21.5	-2.2	-0.81	0.0	3.1	0.0	0.0	38.7
Reformer-Burner Reformer East	Leq,D	97.3	269	294.83	-60.4	3.0	-24.7	-1.9	-0.01	0.0	2.4	0.0	0.0	18.7
Reformer-Burner Reformer North	Leq,D	95.9	192	292.94	-60.3	3.1	-24.5	-1.9	-0.01	0.0	1.6	0.0	0.0	13.9
Reformer-Burner Reformer South	Leq,D	95.8	191	284.48	-60.1	3.3	-12.1	-1.1	-1.05	0.0	1.9	0.0	0.0	29.5
Reformer-Burner Reformer West	Leq,D	97.3	268	282.69	-60.0	3.3	-10.8	-1.1	-1.05	0.0	1.0	0.0	0.0	31.7
RFG A from battery to process	Leq,D	99.4	87	273.39	-59.7	3.6	-17.8	-4.1	-0.79	0.0	3.2	0.0	0.0	23.8
RFG A from battery to process w NC	Leq,D	115.2	42	317.23	-61.0	4.6	-23.3	-5.4	-0.71	0.0	3.1	0.0	0.0	32.5
Stack Noise	Leq,D	108.4		275.61	-59.8	3.0	-6.0	-1.1		-6.0	0.0	0.0	0.0	38.6
Steam Turbine-Facade 01	Leq,D	99.6	29	307.22	-60.7	5.1	-16.0	-2.3	-0.95	0.0	2.5	0.0	0.0	27.2
Steam Turbine-Facade 02	Leq,D	96.2	13	306.25	-60.7	5.1	-18.1	-2.1	-0.99	0.0	5.3	0.0	0.0	24.6
Steam Turbine-Facade 03	Leq,D	99.6	29	310.16	-60.8	5.1	-23.1	-3.4	-0.95	0.0	9.1	0.0	0.0	25.5
Steam Turbine-Facade 04	Leq,D	96.2	13	311.16	-60.9	5.1	-22.6	-3.3	-0.92	0.0	4.2	0.0	0.0	17.8
Steam Turbine-Roof 01	Leq,D	99.7	30	308.68	-60.8	4.5	-14.4	-2.5	-0.96	0.0	4.0	0.0	0.0	29.5
Tank Farm Pump 1	Leq,D	99.0	3	232.65	-58.3	5.1	-12.5	-1.1	-0.30	0.0	0.0	0.0	0.0	31.9
Tank Farm Pump 2	Leq,D	99.0	3	235.08	-58.4	5.1	-23.0	-1.3		0.0	2.8	0.0	0.0	24.3
Tank Farm Pump 3	Leq,D	99.0	3	235.90	-58.4	5.1	-22.4	-1.2		0.0	3.4	0.0	0.0	25.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	413.32	-63.3	4.6	-5.8	-2.4		0.0	2.4	-11.8	0.0	36.2
XF-1502 Splitter Area 1	Leq,D	104.5		367.67	-62.3	3.3	-14.1	-1.3	-0.14	-3.0	6.5	0.0	0.0	33.4
XF-1502 Splitter Area 2	Leq,D	104.5		364.95	-62.2	3.3	-14.2	-1.3	-0.11	-3.0	3.1	0.0	0.0	30.1
XF-1504 Splitter Area 1	Leq,D	104.5		364.66	-62.2	3.3	-6.6	-1.8	-0.03	-3.9	2.7	0.0	0.0	35.8
XF-1504 Splitter Area 2	Leq,D	104.5		361.92	-62.2	3.2	-14.1	-1.3	-0.03	-3.0	6.6	0.0	0.0	33.7
XF 251, 250, 271, 270	Leq,D	101.1	128	158.46	-55.0	3.0	-9.1	-0.3	-0.52	-2.1	1.3	0.0	0.0	38.4
XF 260, 261A, 261 B	Leq,D	99.9	97	193.57	-56.7	3.0	-12.0	-0.3	0.00	-1.8	1.7	0.0	0.0	33.8
XF 304, XF 321	Leq,D	110.5	56	434.82	-63.8	3.7	-12.6	-0.7	-0.07	-1.6	2.8	0.0	0.0	38.3
XF 313, XF 314	Leq,D	113.0	18	456.17	-64.2	4.2	-18.0	-1.1	-0.16	-2.5	2.2	0.0	0.0	33.5
XF 335-1, XF 335-2	Leq,D	113.4	54	443.13	-63.9	3.7	-13.8	-0.9	-0.08	-1.7	3.7	0.0	0.0	40.4
XF 353A/B	Leq,D	95.4	35	99.30	-50.9	3.0	-6.6	-0.3	-0.76	-2.5	0.2	0.0	0.0	37.6
XF 353A/B	Leq,D	95.4	35	122.70	-52.8	3.0	-6.6	-0.3	-1.22	-2.5	1.4	0.0	0.0	36.4
XF 354A/B	Leq,D	95.4	35	87.38	-49.8	3.0	-6.7	-0.2	-0.34	-2.5	0.9	0.0	0.0	39.7
XF 503	Leq,D	113.0	21	387.62	-62.8	4.0	-16.0	-1.1	-0.53	-2.8	2.5	0.0	0.0	36.5
XF - 1601	Leq,D	96.6		347.54	-61.8	3.0	-5.7	-0.9		-2.1	2.5	0.0	0.0	31.6
XF - 1602	Leq,D	96.6		343.61	-61.7	3.0	-5.7	-0.9		-2.1	2.5	0.0	0.0	31.7
XF Module 1510	Leq,D	108.3		366.28	-62.3	3.5	-14.6	-1.3	-0.13	-3.0	3.3	0.0	0.0	33.8
XF Module 1519	Leq,D	109.0		370.10	-62.4	3.5	-23.4	-1.9	-0.02	-3.5	7.4	0.0	0.0	28.7
xxxx xxxx xxxx xxxx	Leq,D		228								13.0			23.2
xxxx xxxx xxxx xxxx	Leq,D		520								8.6			30.6
xxxx xxxx xxxx xxxx	Leq,D		1341								6.4			37.7
xxxx xxxx xxxx xxxx	Leq,D		450								2.3			39.4
Receiver S-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.2 dB(A) Ld 7-19 dB(A) Leq,N 70.9 dB(A) Le 19-22 dB(A) CNEL 77.6 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	214.16	-57.6	4.6	-23.2	-1.5	-0.71	0.0	0.4	0.0	0.0	26.5
18-1855 A/B	Leq,D	98.8		128.34	-53.2	4.5	0.0	-0.7	-0.73	0.0	0.0	0.0	0.0	48.7
18-1856 A/B	Leq,D	98.8		127.32	-53.1	4.5	-5.1	-0.6	-0.72	0.0	0.0	0.0	0.0	43.8
18-1857 A/B	Leq,D	98.8		129.72	-53.3	4.5	0.0	-0.7	-0.73	0.0	0.0	0.0	0.0	48.7
18-1858 A/B	Leq,D	98.8		130.76	-53.3	4.1	-1.6	-0.9	-0.72	0.0	0.0	0.0	0.0	46.4
18-PK 1802 Air Compressor Package	Leq,D	103.1		114.31	-52.2	5.0	-9.6	-0.2	-0.81	0.0	0.0	0.0	0.0	45.4
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	104.10	-51.3	3.5	0.0	-1.7		0.0	0.3	-2.7	0.0	57.0

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Air Compressor C 1	Leq,D	110.0	5	343.40	-61.7	5.5	-11.9	-0.7	-1.04	0.0	4.7	0.0	0.0	44.8
Air Compressor Pump	Leq,D	100.3		151.07	-54.6	4.5	-18.3	-1.7	-0.50	0.0	5.4	0.0	0.0	35.1
Blower F 401	Leq,D	113.0		259.25	-59.3	4.9	-11.2	-0.3		0.0	0.5	0.0	0.0	47.7
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	52.31	-45.4	3.0	0.0	-0.3		0.0	0.0	0.0	0.0	55.9
Boiler Feed Water Pump A	Leq,D	97.1	3	151.54	-54.6	4.5	-15.1	-0.6	-0.74	0.0	0.0	0.0	0.0	30.7
Boiler Feed Water Pump B	Leq,D	97.1	3	148.16	-54.4	4.5	-15.2	-0.5	-0.74	0.0	0.0	0.0	0.0	30.7
C370 A Motor	Leq,D	103.6	3	186.95	-56.4	3.7	-10.5	-0.8	-0.80	0.0	2.4	0.0	0.0	41.2
C370 B Motor	Leq,D	108.6	3	181.46	-56.2	3.6	-7.8	-0.9	-0.79	0.0	0.1	0.0	0.0	46.6
C370A	Leq,D	103.8	5	190.66	-56.6	3.8	-9.9	-0.8	-0.81	0.0	3.3	0.0	0.0	42.8
C370B	Leq,D	103.8	5	185.29	-56.3	3.8	-6.2	-1.0	-0.79	0.0	0.3	0.0	0.0	43.5
C-270 A	Leq,D	106.3	6	60.51	-46.6	3.0	-15.1	-0.2	-0.13	0.0	0.0	0.0	0.0	47.2
C-270 B	Leq,D	106.3	6	58.79	-46.4	3.0	-21.9	-0.3	-0.11	0.0	1.0	0.0	0.0	41.6
C-270 C	Leq,D	106.3	6	57.47	-46.2	3.0	-21.9	-0.3		0.0	0.9	0.0	0.0	41.8
C-301 Compressor	Leq,D	106.8	3	89.52	-50.0	3.0	-10.8	-0.4	-0.69	0.0	0.2	0.0	0.0	48.1
C-301 Motor	Leq,D	106.8	4	88.01	-49.9	3.0	-14.7	-0.5	-0.74	0.0	0.2	0.0	0.0	44.1
C-351 Compressor	Leq,D	106.8	4	75.19	-48.5	3.0	-7.9	-0.4	-0.47	0.0	3.1	0.0	0.0	55.6
C-351 Motor	Leq,D	106.8	5	71.19	-48.0	3.0	-4.9	-0.9	-0.45	0.0	0.7	0.0	0.0	56.2
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	103.58	-51.3	3.5	-0.1	-0.3		0.0	0.2	-33.5	0.0	53.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	307.66	-60.8	4.7	-9.6	-1.0	-0.93	1.8	1.2	0.0	0.0	40.3
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	307.77	-60.8	4.7	-4.6	-1.1	-0.99	0.0	0.2	0.0	0.0	38.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	318.50	-61.1	4.8	-16.0	-0.6	-0.93	-7.5	3.9	0.0	0.0	29.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	313.82	-60.9	4.7	-12.0	-1.1	-0.95	2.9	0.1	0.0	0.0	43.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	307.61	-60.8	4.7	-9.6	-0.9	-0.94	2.7	2.1	0.0	0.0	41.1
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	324.76	-61.2	4.8	-18.6	-0.8	-0.91	-7.8	0.5	0.0	0.0	16.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	256.93	-59.2	4.6	-5.9	-1.2	-0.47	2.6	0.1	0.0	0.0	38.4
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	265.08	-59.5	4.6	-18.3	-0.7	-0.28	-7.7	0.3	0.0	0.0	16.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	240.48	-58.6	4.0	-4.8	-1.3	-0.52	2.9	0.7	0.0	0.0	43.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	251.63	-59.0	4.3	-17.5	-0.7	-0.52	-7.6	0.3	0.0	0.0	20.0
Cooling Tower M 512	Leq,D	95.7		256.21	-59.2	5.1	-5.0	-1.2	-0.28	0.0	1.7	0.0	0.0	36.8
Cooling Tower M 513	Leq,D	95.7		257.10	-59.2	5.1	-4.9	-1.2	-0.26	0.0	1.7	0.0	0.0	36.9
Cooling Tower M 514	Leq,D	95.7		255.08	-59.1	5.1	-6.9	-1.1	-0.30	0.0	2.3	0.0	0.0	35.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	178.86	-56.0	3.0	-2.9	-0.7	-0.31	-3.1	0.0	0.0	0.0	35.7
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	223.07	-58.0	4.4	-5.6	-0.1		0.0	0.1	0.0	0.0	36.2
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	225.38	-58.1	4.5	-8.3	-0.1	-0.02	0.0	0.7	0.0	0.0	31.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	223.28	-58.0	3.6	-4.8	-0.1		0.0	0.1	0.0	0.0	34.2
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	221.11	-57.9	4.4	-3.0	-0.1		0.0	0.0	0.0	0.0	36.6
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	223.40	-58.0	4.4	-4.4	-0.1	-0.01	0.0	0.0	0.0	0.0	37.3
FD Motor	Leq,D	103.3	2	222.98	-58.0	4.7	-14.3	-1.2	-0.76	0.0	0.0	0.0	0.0	33.8
Feed Compressor -B Motor	Leq,D	103.8	5	158.44	-55.0	3.3	-7.1	-1.3	-0.77	0.0	0.0	0.0	0.0	42.9
Feed Compressor-A Compressor	Leq,D	104.0	5	169.02	-55.6	3.7	-7.1	-0.9	-0.76	0.0	0.0	0.0	0.0	43.5
Feed Compressor-A Motor	Leq,D	103.8	6	164.17	-55.3	3.4	-6.8	-1.4	-0.80	0.0	0.0	0.0	0.0	42.9
Feed Compressor-B Compressor	Leq,D	104.0	7	163.98	-55.3	3.6	-7.0	-0.8	-0.73	0.0	1.3	0.0	0.0	45.1
H2S Compressor 18-C-271	Leq,D	105.3	6	316.81	-61.0	5.1	-13.0	-0.9	-0.42	0.0	0.0	0.0	0.0	35.0
Heater # 5-Heater	Leq,D	91.1	13	50.50	-45.1	3.0	0.0	-0.3		0.0	1.6	0.0	0.0	53.3
Heater # 5-Heater	Leq,D	91.1	13	45.38	-44.1	3.0	0.0	-0.3		0.0	1.1	0.0	0.0	53.8
Heater # 5-Heater	Leq,D	91.1	13	55.48	-45.9	3.0	0.0	-0.3		0.0	0.0	0.0	0.0	50.9
Hydro Heater H-402	Leq,D	98.1		275.22	-59.8	5.2	-11.3	-0.4		0.0	1.4	0.0	0.0	33.1

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	212.18	-57.5	4.6	-14.4	0.0	-0.11	0.0	0.1	0.0	0.0	19.6
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	209.84	-57.4	4.6	-3.3	-0.1	-0.14	0.0	0.5	0.0	0.0	31.5
ID Fan-ID Fan - North	Leq,D	92.2	8	212.73	-57.5	4.6	-13.5	0.0	-0.11	0.0	0.0	0.0	0.0	25.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	211.68	-57.5	4.6	-14.8	0.0	-0.11	0.0	0.0	0.0	0.0	23.6
ID Fan-ID Fan - South	Leq,D	92.3	9	209.49	-57.4	4.6	-4.9	0.0	-0.11	0.0	0.0	0.0	0.0	34.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	210.18	-57.4	4.6	-3.3	-0.1	-0.14	0.0	0.0	0.0	0.0	35.0
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	211.06	-57.5	3.9	-9.2	0.0	-0.01	0.0	0.0	0.0	0.0	31.1
Motor & Pump P 56A/B	Leq,D	93.7		292.07	-60.3	5.2	-16.9	-1.2	-0.22	0.0	7.2	0.0	0.0	27.5
Motor & Pump P 120/121	Leq,D	96.2	2	333.42	-61.5	5.4	-18.5	-1.1	-0.73	0.0	2.5	0.0	0.0	22.3
Motor & Pump P 211/212	Leq,D	93.7		290.12	-60.2	5.3	-7.6	-1.5	-0.72	0.0	0.0	0.0	0.0	28.9
Motor & Pump P 215/214	Leq,D	94.6		293.57	-60.3	5.3	-2.8	-1.9	-0.72	0.0	0.0	0.0	0.0	34.1
Motor & Pump P 216	Leq,D	98.3		295.63	-60.4	5.2	-8.8	-1.5	-0.20	0.0	0.0	0.0	0.0	32.6
Motor & Pump P 217/218	Leq,D	93.7		291.50	-60.3	5.5	-8.1	-1.4	-0.74	0.0	0.0	0.0	0.0	28.6
Motor & Pump P 300	Leq,D	97.1	2	343.10	-61.7	5.4	-19.8	-1.1	-0.61	0.0	6.6	0.0	0.0	26.0
Motor & Pump P 301	Leq,D	102.1	2	341.86	-61.7	5.4	-20.4	-1.1	-0.59	0.0	7.9	0.0	0.0	31.6
Motor & Pump P 302	Leq,D	97.1	2	344.41	-61.7	5.4	-19.3	-1.0	-0.63	0.0	5.1	0.0	0.0	24.9
Motor & Pump P 303	Leq,D	97.1	2	345.58	-61.8	5.4	-18.7	-1.0	-0.65	0.0	4.2	0.0	0.0	24.5
Motor & Pump P 305	Leq,D	97.5	2	346.68	-61.8	5.4	-18.3	-1.0	-0.67	0.0	2.9	0.0	0.0	24.0
Motor & Pump P 306	Leq,D	112.6	4	353.39	-62.0	5.3	-17.0	-1.0	-0.81	0.0	1.2	0.0	0.0	38.5
Motor & Pump P 307	Leq,D	102.1	2	338.32	-61.6	5.4	-21.5	-1.2	-0.53	0.0	1.3	0.0	0.0	24.0
Motor & Pump P 309	Leq,D	97.5	2	347.78	-61.8	5.4	-17.9	-1.0	-0.68	0.0	1.7	0.0	0.0	23.2
Motor & Pump P 312	Leq,D	101.5	2	322.76	-61.2	5.5	-15.2	-0.9	-0.38	0.0	4.5	0.0	0.0	33.8
Motor & Pump P 313	Leq,D	101.5	2	321.53	-61.1	5.5	-15.0	-0.9	-0.43	0.0	4.3	0.0	0.0	33.8
Motor & Pump P 315	Leq,D	102.9	2	317.32	-61.0	5.4	-7.4	-1.1	-0.63	0.0	1.1	0.0	0.0	39.2
Motor & Pump P 316	Leq,D	102.9	2	315.98	-61.0	5.4	-6.1	-1.2	-0.69	0.0	0.8	0.0	0.0	40.1
Motor & Pump P 317	Leq,D	102.9	2	314.57	-60.9	5.4	-4.9	-1.3	-0.74	0.0	0.2	0.0	0.0	40.6
Motor & Pump P 318	Leq,D	100.2	1	318.30	-61.0	5.5	-13.5	-1.0		0.0	3.2	0.0	0.0	33.4
Motor & Pump P 319	Leq,D	100.2	1	319.31	-61.1	5.5	-14.2	-1.0	-0.51	0.0	1.8	0.0	0.0	30.8
Motor & Pump P 327	Leq,D	111.2	3	359.82	-62.1	5.4	-21.6	-1.8	-0.79	0.0	4.4	0.0	0.0	34.8
Motor & Pump P 328	Leq,D	109.9	5	349.01	-61.8	5.3	-17.6	-1.0	-0.70	0.0	1.9	0.0	0.0	35.9
Motor & Pump P 329	Leq,D	110.2	5	351.16	-61.9	5.3	-19.0	-1.1	-0.71	0.0	2.9	0.0	0.0	35.6
Motor & Pump P 451	Leq,D	93.7		269.70	-59.6	5.1	-8.2	-1.5		0.0	0.0	0.0	0.0	29.4
Motor & Pump P 453	Leq,D	93.7		259.86	-59.3	5.1	-2.6	-1.9		0.0	0.9	0.0	0.0	35.9
Motor & Pump P 454	Leq,D	93.7		271.09	-59.7	5.2	-7.0	-1.7		0.0	0.0	0.0	0.0	30.5
Motor & Pump P 457	Leq,D	93.7		258.87	-59.3	5.1	-3.6	-1.6		0.0	0.8	0.0	0.0	35.1
Motor & Pump P 458	Leq,D	93.7		268.85	-59.6	5.1	-10.9	-1.1		0.0	3.0	0.0	0.0	30.2
Motor & Pump P 459	Leq,D	93.7		271.76	-59.7	5.2	-8.2	-1.5		0.0	0.0	0.0	0.0	29.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		280.11	-59.9	5.3	-18.6	-1.2	-0.41	0.0	0.3	0.0	0.0	21.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		281.37	-60.0	5.3	-18.2	-1.2	-0.43	0.0	0.4	0.0	0.0	22.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		301.85	-60.6	5.3	-4.5	-2.2	-0.78	0.0	0.2	0.0	0.0	32.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		302.79	-60.6	5.3	-16.2	-1.3	-0.83	0.0	1.7	0.0	0.0	23.4
Motor & Pump P 1601 A	Leq,D	96.3	2	262.64	-59.4	5.0	-18.5	-1.1	-0.52	0.0	0.7	0.0	0.0	22.6
Motor & Pump P 1601 B	Leq,D	96.3	2	261.71	-59.3	5.0	-17.8	-1.1	-0.52	0.0	7.2	0.0	0.0	29.7
Motor & Pump P 1602 A	Leq,D	96.3	2	260.85	-59.3	5.0	-16.8	-1.1	-0.52	0.0	7.3	0.0	0.0	30.9
Motor & Pump P 1602 B	Leq,D	96.5	2	259.96	-59.3	5.0	-13.9	-1.1	-0.52	0.0	3.5	0.0	0.0	30.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	274.46	-59.8	5.3	-17.5	-1.1	-0.64	0.0	0.3	0.0	0.0	23.3
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	278.24	-59.9	5.3	-20.7	-1.8	-0.23	0.0	0.9	0.0	0.0	20.2
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	280.13	-59.9	5.3	-18.8	-1.1	-0.81	0.0	0.6	0.0	0.0	21.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	282.10	-60.0	5.3	-17.1	-1.2	-0.52	0.0	0.4	0.0	0.0	23.6
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	283.46	-60.0	5.3	-16.9	-1.2	-0.59	0.0	0.5	0.0	0.0	23.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	279.95	-59.9	5.3	-17.3	-1.1	-0.56	0.0	0.4	0.0	0.0	23.1
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	281.36	-60.0	5.3	-17.5	-1.1	-0.64	0.0	0.7	0.0	0.0	23.1
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	283.79	-60.1	5.3	-17.8	-1.1	-0.79	0.0	0.0	0.0	0.0	21.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	282.67	-60.0	5.3	-17.7	-1.1	-0.72	0.0	0.7	0.0	0.0	22.8
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	327.70	-61.3	5.1	-11.1	-1.1	-0.74	0.0	1.2	0.0	0.0	36.2
P-2 A/B	Leq,D	98.5		141.07	-54.0	5.2	0.0	-0.8	-0.79	0.0	0.4	0.0	0.0	48.6
P-50 A/B	Leq,D	98.1		113.61	-52.1	5.0	-15.0	-0.4	-1.01	0.0	0.0	0.0	0.0	34.6
P-51 A/B	Leq,D	98.1		111.67	-52.0	4.9	0.0	-0.6	-1.48	0.0	0.0	0.0	0.0	49.0
P-060 A/B	Leq,D	98.1		118.68	-52.5	5.0	-18.7	-0.4	-1.69	0.0	0.0	0.0	0.0	29.9
P-63	Leq,D	98.5		108.83	-51.7	4.9	0.0	-0.6	-0.66	0.0	0.1	0.0	0.0	50.6
P-70 A/B	Leq,D	98.1		116.31	-52.3	5.0	-20.8	-0.4	-0.93	0.0	0.0	0.0	0.0	28.6
P-73 A/B	Leq,D	98.5		136.69	-53.7	5.1	0.0	-0.7	-0.84	0.0	0.0	0.0	0.0	48.4
P-251 A/B	Leq,D	98.2		83.65	-49.4	4.6	-4.7	-0.5	-0.33	0.0	0.0	0.0	0.0	47.8
P-252 A/B	Leq,D	98.2		92.16	-50.3	4.7	-4.6	-0.5	-0.56	0.0	0.0	0.0	0.0	46.9
P-253	Leq,D	98.2		89.71	-50.0	4.7	-4.7	-0.5	-0.55	0.0	0.0	0.0	0.0	47.1
P-254 A/B	Leq,D	98.2		79.43	-49.0	4.5	-4.7	-0.5	-0.31	0.0	0.0	0.0	0.0	48.2
P-255 A/B	Leq,D	98.2		80.58	-49.1	4.5	-4.7	-0.5	-0.32	0.0	0.0	0.0	0.0	48.1
P-255 A/B	Leq,D	98.2		87.24	-49.8	4.6	0.0	-0.5	-0.35	0.0	0.0	0.0	0.0	52.2
P-256 A/B	Leq,D	98.2		82.27	-49.3	4.6	-4.7	-0.5	-0.33	0.0	0.0	0.0	0.0	47.9
P-259 A/B	Leq,D	98.2		85.33	-49.6	4.6	-4.6	-0.5	-0.34	0.0	0.0	0.0	0.0	47.7
P-260	Leq,D	99.1		101.10	-51.1	4.8	0.0	-0.6	-0.58	0.0	0.0	0.0	0.0	51.7
P-261 A/B	Leq,D	98.0		115.65	-52.3	5.0	0.0	-0.6	-0.28	0.0	0.0	0.0	0.0	49.8
P-262 A/B	Leq,D	99.1		105.98	-51.5	4.9	0.0	-0.6	-0.30	0.0	0.0	0.0	0.0	51.6
P-263 A/B	Leq,D	99.4		103.73	-51.3	4.9	0.0	-0.6	-0.43	0.0	0.0	0.0	0.0	51.9
P-270 A/B	Leq,D	98.5		80.08	-49.1	4.5	-19.9	-0.3	-0.41	0.0	0.0	0.0	0.0	33.3
P-271 A/B	Leq,D	98.2		76.97	-48.7	4.5	0.0	-0.4	-0.30	0.0	0.0	0.0	0.0	53.2
P-272 A/B	Leq,D	98.2		78.01	-48.8	4.5	-4.7	-0.5	-0.31	0.0	0.0	0.0	0.0	48.4
P-273 A/B	Leq,D	98.5		79.19	-49.0	4.5	-19.4	-0.3	-0.09	0.0	0.0	0.0	0.0	34.3
P-275 A/B/C	Leq,D	98.2		87.59	-49.8	4.7	-4.5	-0.5	-0.53	0.0	0.0	0.0	0.0	47.4
P-305	Leq,D	99.3		38.50	-42.7	3.0	0.0	-0.2	-0.10	0.0	0.0	0.0	0.0	59.3
P-306	Leq,D	100.8		47.21	-44.5	3.5	0.0	-0.3	-0.33	0.0	0.3	0.0	0.0	59.6
P-309	Leq,D	99.3		40.61	-43.2	3.1	0.0	-0.2	-0.16	0.0	0.3	0.0	0.0	59.2
P-328	Leq,D	100.8		52.51	-45.4	3.8	0.0	-0.3	-0.40	0.0	0.1	0.0	0.0	58.5
P-329	Leq,D	100.8		49.97	-45.0	3.6	0.0	-0.3	-0.39	0.0	0.4	0.0	0.0	59.1
P-353	Leq,D	98.5		48.85	-44.8	3.0	0.0	-0.3	-0.19	0.0	0.0	0.0	0.0	56.2
P-358 A/B	Leq,D	99.4		80.20	-49.1	4.5	0.0	-0.5	-0.82	0.0	0.0	0.0	0.0	53.6
P-359 A/B	Leq,D	99.4		76.88	-48.7	4.5	0.0	-0.4	-0.79	0.0	0.9	0.0	0.0	54.9
P-360 A/B	Leq,D	99.4		70.80	-48.0	4.3	0.0	-0.4	-0.73	0.0	2.1	0.0	0.0	56.7
P-361A	Leq,D	98.1		130.45	-53.3	4.4	-4.7	-0.5	-1.79	0.0	0.0	0.0	0.0	42.3
P-371 A/B	Leq,D	98.0		217.13	-57.7	5.0	-10.7	-0.7	-0.54	0.0	3.3	0.0	0.0	36.6
P-373 A/B	Leq,D	98.0		206.30	-57.3	5.0	-8.2	-0.7	-0.54	0.0	2.3	0.0	0.0	38.6
P-374 A/B	Leq,D	98.0		208.55	-57.4	5.0	-8.8	-0.7	-0.52	0.0	1.9	0.0	0.0	37.5
P-375 A/B	Leq,D	98.0		213.90	-57.6	5.0	-10.6	-0.7	-0.54	0.0	1.6	0.0	0.0	35.2
P-376	Leq,D	98.0		209.97	-57.4	5.0	-9.1	-0.7	-0.53	0.0	1.7	0.0	0.0	36.9
P-376 A/B	Leq,D	98.0		204.05	-57.2	5.0	-6.2	-0.7	-0.60	0.0	1.8	0.0	0.0	40.0
P-377	Leq,D	98.0		211.40	-57.5	5.0	-10.4	-0.7	-0.53	0.0	2.1	0.0	0.0	36.1
P-1101 A	Leq,D	98.9		137.81	-53.8	4.5	0.0	-0.7	-1.43	0.0	0.0	0.0	0.0	47.5
P-1103	Leq,D	98.9		136.46	-53.7	4.5	0.0	-0.7	-1.44	0.0	0.0	0.0	0.0	47.5
P-1105 A/B/C	Leq,D	98.9		143.12	-54.1	4.6	0.0	-0.8	-1.39	0.0	0.0	0.0	0.0	47.2
P-1800	Leq,D	98.9		160.28	-55.1	5.3	-14.6	-0.5		0.0	2.3	0.0	0.0	36.3
P-1801	Leq,D	98.9		210.00	-57.4	5.4	-10.6	-0.7		0.0	0.0	0.0	0.0	35.7
P-1802	Leq,D	98.9		210.05	-57.4	5.4	-10.6	-0.7		0.0	0.0	0.0	0.0	35.7
P-1803	Leq,D	99.1		146.21	-54.3	5.2	-13.5	-0.4	-1.99	0.0	2.1	0.0	0.0	36.2
P-1804	Leq,D	99.1		147.56	-54.4	5.2	-18.6	-0.5	-1.76	0.0	0.5	0.0	0.0	29.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1805	Leq,D	99.1		150.28	-54.5	5.2	-18.2	-0.5	-1.75	0.0	5.0	0.0	0.0	34.3
P-1806	Leq,D	99.1		128.73	-53.2	5.1	0.0	-0.7	-1.58	0.0	0.9	0.0	0.0	49.6
P-1809 A	Leq,D	98.9		172.67	-55.7	5.3	-14.4	-0.6		0.0	3.7	0.0	0.0	37.2
P-1810 A/B/C	Leq,D	99.0		158.82	-55.0	5.3	-13.4	-0.5	-1.85	0.0	0.1	0.0	0.0	33.7
P-1811 A/B	Leq,D	99.1		133.37	-53.5	5.1	0.0	-0.7	-1.65	0.0	0.0	0.0	0.0	48.3
P-1811 A/B	Leq,D	99.1		153.58	-54.7	5.2	-12.6	-0.5	-1.74	0.0	1.1	0.0	0.0	35.9
P-1847 A/B	Leq,D	99.4		192.14	-56.7	5.4	-3.7	-0.8	-1.07	0.0	0.2	0.0	0.0	42.7
P-1849 A/B	Leq,D	99.4		195.81	-56.8	5.4	-4.8	-0.8	-1.16	0.0	0.2	0.0	0.0	41.4
P-1853	Leq,D	99.1		37.11	-42.4	3.0	0.0	-0.2		0.0	0.0	0.0	0.0	59.5
Piping Furnace Tanks	Leq,D	87.1	72	210.09	-57.4	3.0	-0.4	-6.9	-0.59	0.0	1.5	0.0	0.0	26.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	196.67	-56.9	3.0	-0.4	-6.6	-0.62	0.0	0.6	0.0	0.0	37.6
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	236.21	-58.5	4.1	-14.0	-1.8	-0.76	0.0	1.2	0.0	0.0	44.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	233.70	-58.4	4.1	-16.6	-4.6	-0.70	0.0	1.3	0.0	0.0	40.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	240.87	-58.6	3.6	-21.8	-0.9	-1.27	0.0	0.6	0.0	0.0	32.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	235.49	-58.4	3.6	-22.2	-0.9	-1.14	0.0	2.8	0.0	0.0	34.8
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	210.14	-57.4	3.4	-20.5	-0.8	-1.08	0.0	0.1	0.0	0.0	27.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	209.60	-57.4	3.5	-7.9	-0.9	-1.33	0.0	0.0	0.0	0.0	47.2
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	198.12	-56.9	3.4	-1.9	-1.0	-1.60	0.0	0.2	0.0	0.0	46.1
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	216.43	-57.7	3.5	-19.4	-0.8	-1.04	0.0	0.1	0.0	0.0	28.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	200.82	-57.0	3.5	-4.4	-0.9	-1.34	0.0	0.0	0.0	0.0	46.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	196.48	-56.9	3.4	-13.3	-0.7	-1.08	0.0	3.0	0.0	0.0	40.6
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	220.61	-57.9	3.0	-7.1	-0.9	-1.10	0.0	0.2	0.0	0.0	49.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	228.68	-58.2	3.0	-8.4	-1.8		0.0	0.0	0.0	0.0	15.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	237.49	-58.5	4.1	-13.6	-1.8	-0.77	0.0	1.0	0.0	0.0	47.1
Reformer-Burner Reformer East	Leq,D	97.3	269	223.12	-58.0	3.0	-20.3	-1.1		0.0	0.0	0.0	0.0	24.0
Reformer-Burner Reformer North	Leq,D	95.9	192	218.63	-57.8	3.0	-12.0	-0.9	-0.03	0.0	0.0	0.0	0.0	28.2
Reformer-Burner Reformer South	Leq,D	95.8	191	214.03	-57.6	3.1	-0.8	-1.7	-0.66	0.0	0.0	0.0	0.0	40.7
Reformer-Burner Reformer West	Leq,D	97.3	268	209.94	-57.4	3.0	-0.2	-1.6	-0.67	0.0	0.0	0.0	0.0	43.4
RFG A from battery to process	Leq,D	99.4	87	194.45	-56.8	3.0	-0.4	-6.5	-0.61	0.0	0.7	0.0	0.0	38.9
RFG A from battery to process w NC	Leq,D	115.2	42	236.23	-58.5	4.1	-15.4	-4.8	-0.70	0.0	1.9	0.0	0.0	41.8
Stack Noise	Leq,D	108.4		213.09	-57.6	3.0	-5.9	-0.6		-5.5	0.0	0.0	0.0	41.9
Steam Turbine-Facade 01	Leq,D	99.6	29	223.32	-58.0	4.7	-10.7	-2.7	-0.83	0.0	1.7	0.0	0.0	33.8
Steam Turbine-Facade 02	Leq,D	96.2	13	222.96	-58.0	4.7	-10.6	-2.7	-0.83	0.0	5.6	0.0	0.0	34.5
Steam Turbine-Facade 03	Leq,D	99.6	29	226.55	-58.1	4.7	-21.6	-2.5	-0.82	0.0	11.2	0.0	0.0	32.5
Steam Turbine-Facade 04	Leq,D	96.2	13	226.95	-58.1	4.7	-19.9	-2.3	-0.81	0.0	1.5	0.0	0.0	21.4
Steam Turbine-Roof 01	Leq,D	99.7	30	224.94	-58.0	4.0	-6.3	-4.0	-0.81	0.0	4.1	0.0	0.0	38.7
Tank Farm Pump 1	Leq,D	99.0	3	204.77	-57.2	5.0	-5.2	-1.3	-0.85	0.0	2.8	0.0	0.0	42.2
Tank Farm Pump 2	Leq,D	99.0	3	215.34	-57.7	5.0	-2.5	-1.6	-0.96	0.0	0.0	0.0	0.0	41.4
Tank Farm Pump 3	Leq,D	99.0	3	218.40	-57.8	5.1	-3.9	-1.4	-1.05	0.0	0.3	0.0	0.0	40.2
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	284.17	-60.1	3.9	-0.1	-3.2		0.0	0.7	-11.8	0.0	41.9
XF-1502 Splitter Area 1	Leq,D	104.5		280.06	-59.9	3.0	-2.9	-2.4	-0.67	-4.3	0.0	0.0	0.0	37.2
XF-1502 Splitter Area 2	Leq,D	104.5		277.15	-59.8	3.0	-2.1	-2.4	-0.67	-4.4	0.0	0.0	0.0	38.0
XF-1504 Splitter Area 1	Leq,D	104.5		277.33	-59.9	3.0	-2.9	-2.4	-0.52	-4.3	0.9	0.0	0.0	38.4
XF-1504 Splitter Area 2	Leq,D	104.5		274.38	-59.8	3.0	-2.1	-2.4	-0.52	-4.4	0.8	0.0	0.0	39.1
XF 251, 250, 271, 270	Leq,D	101.1	128	82.54	-49.3	3.0	-1.2	-0.4	-0.34	-2.8	0.0	0.0	0.0	50.1
XF 260, 261A, 261 B	Leq,D	99.9	97	104.82	-51.4	3.0	0.0	-0.5	-0.09	-2.9	0.0	0.0	0.0	48.0
XF 304, XF 321	Leq,D	110.5	56	345.39	-61.8	3.1	-6.5	-0.8	-0.24	-2.3	0.2	0.0	0.0	42.2
XF 313, XF 314	Leq,D	113.0	18	367.89	-62.3	3.8	-7.4	-1.2	-0.82	-3.3	0.8	0.0	0.0	42.5

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
XF 335-1, XF 335-2	Leq,D	113.4	54	354.16	-62.0	3.2	-4.5	-1.5	-0.38	-2.8	0.2	0.0	0.0	45.6
XF 353A/B	Leq,D	95.4	35	80.07	-49.1	3.0	0.0	-0.4	-0.90	-2.8	0.0	0.0	0.0	45.3
XF 353A/B	Leq,D	95.4	35	87.44	-49.8	3.0	-0.1	-0.4	-0.81	-3.0	0.0	0.0	0.0	44.2
XF 354A/B	Leq,D	95.4	35	43.07	-43.7	3.0	0.0	-0.2	-0.12	-2.6	0.0	0.0	0.0	51.8
XF 503	Leq,D	113.0	21	297.09	-60.4	3.4	-2.0	-2.5	-0.57	-3.7	0.0	0.0	0.0	47.3
XF - 1601	Leq,D	96.6		260.69	-59.3	3.0	-0.2	-0.9		-2.6	0.4	0.0	0.0	37.0
XF - 1602	Leq,D	96.6		257.21	-59.2	3.0	-0.2	-0.9		-2.6	0.4	0.0	0.0	37.1
XF Module 1510	Leq,D	108.3		277.95	-59.9	3.0	-4.7	-1.9	-0.61	-4.2	1.3	0.0	0.0	41.4
XF Module 1519	Leq,D	109.0		282.03	-60.0	3.0	-11.4	-1.2	-0.02	-3.4	3.0	0.0	0.0	39.1
xxxx xxxx xxxx xxxx	Leq,D		228								4.7			22.8
xxxx xxxx xxxx xxxx	Leq,D		520								8.2			29.7
xxxx xxxx xxxx xxxx	Leq,D		1341								5.2			41.3
xxxx xxxx xxxx xxxx	Leq,D		450								6.9			40.2
Receiver S-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 73.3 dB(A) Ld 7-19 dB(A) Leq,N 71.4 dB(A) Le 19-22 dB(A) CNEL 78.4 dB(A) Lmax day hr dB(A) Ld														
ID Fan Motor	Leq,D	104.4	2	175.80	-55.9	4.3	-18.8	-0.7	-0.44	0.0	2.4	0.0	0.0	35.2
18-1855 A/B	Leq,D	98.8		96.39	-50.7	4.0	0.0	-0.5	-0.49	0.0	0.1	0.0	0.0	51.3
18-1856 A/B	Leq,D	98.8		100.63	-51.0	4.1	0.0	-0.6	-0.51	0.0	0.1	0.0	0.0	50.9
18-1857 A/B	Leq,D	98.8		92.65	-50.3	4.0	0.0	-0.5	-0.47	0.0	0.1	0.0	0.0	51.6
18-1858 A/B	Leq,D	98.8		90.16	-50.1	3.2	0.0	-0.5	-0.46	0.0	0.4	0.0	0.0	51.3
18-PK 1802 Air Compressor Package	Leq,D	103.1		96.59	-50.7	4.8	0.0	-0.4	-0.65	0.0	0.1	0.0	0.0	56.2
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	31.88	-41.1	3.0	0.0	-0.6		0.0	0.0	-2.7	0.0	67.7
Air Compressor C 1	Leq,D	110.0	5	257.44	-59.2	5.3	-13.1	-0.5	-0.39	0.0	1.8	0.0	0.0	43.9
Air Compressor Pump	Leq,D	100.3		70.51	-48.0	3.0	-18.9	-1.2		0.0	4.4	0.0	0.0	39.7
Blower F 401	Leq,D	113.0		167.98	-55.5	4.3	-11.5	-0.2		0.0	0.4	0.0	0.0	50.5
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	139.62	-53.9	4.1	-6.2	-0.5		0.0	0.0	0.0	0.0	42.2
Boiler Feed Water Pump A	Leq,D	97.1	3	120.43	-52.6	4.1	-6.5	-0.5	-0.48	0.0	0.2	0.0	0.0	41.3
Boiler Feed Water Pump B	Leq,D	97.1	3	117.64	-52.4	4.1	-3.5	-0.7	-0.48	0.0	0.2	0.0	0.0	44.3
C370 A Motor	Leq,D	103.6	3	113.74	-52.1	3.0	-12.1	-0.5		0.0	4.0	0.0	0.0	46.0
C370 B Motor	Leq,D	108.6	3	112.19	-52.0	3.0	-12.6	-0.4	-0.38	0.0	4.8	0.0	0.0	51.0
C370A	Leq,D	103.8	5	118.11	-52.4	3.0	-11.8	-0.5		0.0	4.6	0.0	0.0	46.6
C370B	Leq,D	103.8	5	116.62	-52.3	3.0	-11.9	-0.5	-0.38	0.0	5.1	0.0	0.0	46.8
C-270 A	Leq,D	106.3	6	100.13	-51.0	3.0	-6.4	-0.5	-0.15	0.0	0.8	0.0	0.0	52.0
C-270 B	Leq,D	106.3	6	95.21	-50.6	3.0	-6.1	-0.6	-0.04	0.0	0.3	0.0	0.0	52.4
C-270 C	Leq,D	106.3	6	90.39	-50.1	3.0	-5.8	-0.6		0.0	0.2	0.0	0.0	52.9
C-301 Compressor	Leq,D	106.8	3	120.23	-52.6	3.0	-4.7	-0.6	-1.09	0.0	0.0	0.0	0.0	50.8
C-301 Motor	Leq,D	106.8	4	116.59	-52.3	3.0	-0.4	-1.4	-1.05	0.0	0.1	0.0	0.0	54.8
C-351 Compressor	Leq,D	106.8	4	119.71	-52.6	3.0	-0.5	-1.0	-0.54	0.0	0.2	0.0	0.0	55.4
C-351 Motor	Leq,D	106.8	5	119.22	-52.5	3.0	-4.5	-1.3	-0.55	0.0	0.6	0.0	0.0	51.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	36.02	-42.1	3.1	0.0	-0.1		0.0	0.1	-33.5	0.0	62.1
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	216.92	-57.7	4.2	-11.3	-0.8	-0.96	2.1	2.6	0.0	0.0	42.9
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	217.36	-57.7	4.2	-4.2	-1.0	-1.02	0.0	0.2	0.0	0.0	41.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	227.79	-58.1	4.3	-16.9	-0.5	-0.92	-7.6	3.0	0.0	0.0	29.7
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	222.75	-57.9	4.2	-12.7	-0.8	-0.95	2.8	0.2	0.0	0.0	45.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	217.02	-57.7	4.2	-10.5	-0.7	-0.97	2.6	1.2	0.0	0.0	41.9
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	233.66	-58.4	4.3	-18.5	-0.7	-0.93	-7.8	6.9	0.0	0.0	25.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	171.30	-55.7	4.0	-3.9	-0.8		3.1	0.0	0.0	0.0	44.6
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	178.14	-56.0	4.0	-20.1	-0.6		-7.2	0.7	0.0	0.0	18.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	158.85	-55.0	3.5	-6.6	-0.8		3.8	0.8	0.0	0.0	46.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	166.84	-55.4	3.7	-16.4	-0.5		-6.9	0.3	0.0	0.0	25.6
Cooling Tower M 512	Leq,D	95.7		169.36	-55.6	4.6	-11.8	-0.7		0.0	0.6	0.0	0.0	32.9
Cooling Tower M 513	Leq,D	95.7		170.09	-55.6	4.6	-13.1	-0.7		0.0	0.7	0.0	0.0	31.6
Cooling Tower M 514	Leq,D	95.7		168.39	-55.5	4.6	-10.2	-0.7		0.0	4.1	0.0	0.0	37.9
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	139.91	-53.9	3.0	0.0	-0.6	-0.42	-2.9	0.4	0.0	0.0	41.3
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	179.37	-56.1	4.1	-4.7	-0.1	-0.12	0.0	0.0	0.0	0.0	38.5
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	181.10	-56.2	4.1	-8.7	-0.1	-0.07	0.0	1.4	0.0	0.0	33.7
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	179.05	-56.1	3.0	-4.3	-0.1	-0.06	0.0	0.0	0.0	0.0	35.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	176.96	-55.9	4.0	-1.7	-0.1	-0.06	0.0	0.0	0.0	0.0	39.4
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	178.66	-56.0	4.1	-1.8	-0.1	-0.06	0.0	0.3	0.0	0.0	41.6
FD Motor	Leq,D	103.3	2	179.74	-56.1	4.3	-0.6	-2.0	-0.12	0.0	0.2	0.0	0.0	49.0
Feed Compressor -B Motor	Leq,D	103.8	5	103.74	-51.3	3.0	-7.8	-0.9	-0.41	0.0	0.4	0.0	0.0	46.9
Feed Compressor-A Compressor	Leq,D	104.0	5	107.11	-51.6	3.0	-12.9	-0.4	-0.38	0.0	0.5	0.0	0.0	42.2
Feed Compressor-A Motor	Leq,D	103.8	6	101.85	-51.2	3.0	-13.4	-0.6	-0.42	0.0	0.7	0.0	0.0	41.9
Feed Compressor-B Compressor	Leq,D	104.0	7	109.44	-51.8	3.0	-7.8	-0.6	-0.39	0.0	1.4	0.0	0.0	47.9
H2S Compressor 18-C-271	Leq,D	105.3	6	228.69	-58.2	4.7	-12.4	-0.6	-0.32	0.0	0.0	0.0	0.0	38.5
Heater # 5-Heater	Leq,D	91.1	13	136.64	-53.7	4.2	-17.3	-0.3		0.0	0.0	0.0	0.0	26.9
Heater # 5-Heater	Leq,D	91.1	13	131.85	-53.4	4.1	-16.1	-0.3		0.0	0.0	0.0	0.0	28.4
Heater # 5-Heater	Leq,D	91.1	13	141.33	-54.0	4.2	-18.0	-0.3		0.0	0.0	0.0	0.0	26.0
Hydro Heater H-402	Leq,D	98.1		186.09	-56.4	4.8	-5.0	-0.7		0.0	0.1	0.0	0.0	40.9
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	174.40	-55.8	4.3	-8.2	0.0	-0.08	0.0	0.0	0.0	0.0	27.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	172.24	-55.7	4.3	-3.7	-0.1	-0.12	0.0	0.0	0.0	0.0	32.0
ID Fan-ID Fan - North	Leq,D	92.2	8	174.32	-55.8	4.3	-8.8	0.0	-0.08	0.0	0.2	0.0	0.0	31.9
ID Fan-ID Fan - North 2	Leq,D	91.4	7	174.42	-55.8	4.3	-8.3	0.0	-0.08	0.0	0.1	0.0	0.0	31.6
ID Fan-ID Fan - South	Leq,D	92.3	9	171.29	-55.7	4.3	-3.5	-0.1	-0.19	0.0	0.0	0.0	0.0	37.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	173.04	-55.8	4.3	-3.5	-0.1	-0.18	0.0	0.0	0.0	0.0	36.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	173.15	-55.8	3.5	-4.0	-0.1	-0.12	0.0	0.0	0.0	0.0	37.5
Motor & Pump P 56A/B	Leq,D	93.7		203.40	-57.2	4.9	-11.8	-1.0	-0.21	0.0	0.0	0.0	0.0	28.3
Motor & Pump P 120/121	Leq,D	96.2	2	246.67	-58.8	5.2	-17.3	-0.8	-0.38	0.0	2.0	0.0	0.0	26.1
Motor & Pump P 211/212	Leq,D	93.7		199.30	-57.0	5.0	-7.3	-1.1	-0.75	0.0	0.3	0.0	0.0	32.8
Motor & Pump P 215/214	Leq,D	94.6		202.92	-57.1	5.0	-8.4	-1.1	-0.77	0.0	1.9	0.0	0.0	34.2
Motor & Pump P 216	Leq,D	98.3		204.65	-57.2	4.9	-10.5	-1.0	-0.20	0.0	2.8	0.0	0.0	37.0
Motor & Pump P 217/218	Leq,D	93.7		200.74	-57.0	5.3	-9.2	-1.0	-0.76	0.0	0.9	0.0	0.0	31.9
Motor & Pump P 300	Leq,D	97.1	2	255.62	-59.1	5.2	-19.7	-0.8	-0.37	0.0	0.8	0.0	0.0	23.1
Motor & Pump P 301	Leq,D	102.1	2	254.28	-59.1	5.2	-20.0	-0.9	-0.37	0.0	0.8	0.0	0.0	27.8
Motor & Pump P 302	Leq,D	97.1	2	257.04	-59.2	5.2	-19.3	-0.8	-0.37	0.0	0.7	0.0	0.0	23.4
Motor & Pump P 303	Leq,D	97.1	2	258.28	-59.2	5.2	-18.8	-0.8	-0.37	0.0	0.6	0.0	0.0	23.7
Motor & Pump P 305	Leq,D	97.5	2	259.47	-59.3	5.2	-18.3	-0.8	-0.38	0.0	0.4	0.0	0.0	24.4
Motor & Pump P 306	Leq,D	112.6	4	266.73	-59.5	5.1	-19.5	-0.9	-0.41	0.0	1.3	0.0	0.0	38.7
Motor & Pump P 307	Leq,D	102.1	2	250.46	-59.0	5.2	-19.6	-0.9	-0.36	0.0	1.6	0.0	0.0	29.1
Motor & Pump P 309	Leq,D	97.5	2	260.66	-59.3	5.2	-17.8	-0.8	-0.38	0.0	0.1	0.0	0.0	24.5
Motor & Pump P 312	Leq,D	101.5	2	233.68	-58.4	5.3	-8.0	-0.7	-0.50	0.0	1.7	0.0	0.0	40.9
Motor & Pump P 313	Leq,D	101.5	2	232.35	-58.3	5.3	-10.9	-0.7	-0.54	0.0	2.8	0.0	0.0	39.2
Motor & Pump P 315	Leq,D	102.9	2	227.79	-58.1	5.2	-5.1	-0.8	-0.69	0.0	0.7	0.0	0.0	44.0
Motor & Pump P 316	Leq,D	102.9	2	226.35	-58.1	5.2	-4.2	-0.8	-0.77	0.0	0.4	0.0	0.0	44.6
Motor & Pump P 317	Leq,D	102.9	2	224.85	-58.0	5.1	-5.6	-0.8	-0.83	0.0	0.6	0.0	0.0	43.4
Motor & Pump P 318	Leq,D	100.2	1	228.90	-58.2	5.4	-10.3	-0.7	-0.65	0.0	2.5	0.0	0.0	38.2
Motor & Pump P 319	Leq,D	100.2	1	229.99	-58.2	5.4	-13.6	-0.7		0.0	3.9	0.0	0.0	36.9
Motor & Pump P 327	Leq,D	111.2	3	273.59	-59.7	5.3	-22.1	-1.5	-0.38	0.0	3.6	0.0	0.0	36.4
Motor & Pump P 328	Leq,D	109.9	5	262.01	-59.4	5.1	-18.0	-0.8	-0.38	0.0	0.4	0.0	0.0	36.9
Motor & Pump P 329	Leq,D	110.2	5	264.33	-59.4	5.1	-19.6	-0.9	-0.37	0.0	1.2	0.0	0.0	36.2
Motor & Pump P 451	Leq,D	93.7		180.21	-56.1	4.7	-4.1	-1.2		0.0	0.0	0.0	0.0	37.0
Motor & Pump P 453	Leq,D	93.7		169.84	-55.6	4.6	-5.1	-1.0		0.0	0.0	0.0	0.0	36.6
Motor & Pump P 454	Leq,D	93.7		181.54	-56.2	4.7	-4.6	-1.1		0.0	0.2	0.0	0.0	36.8
Motor & Pump P 457	Leq,D	93.7		168.77	-55.5	4.6	-4.3	-1.1		0.0	0.0	0.0	0.0	37.4
Motor & Pump P 458	Leq,D	93.7		179.42	-56.1	4.7	-3.5	-1.3		0.0	0.0	0.0	0.0	37.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		182.27	-56.2	4.7	-4.1	-1.2		0.0	0.2	0.0	0.0	37.1
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		193.87	-56.7	4.9	-17.9	-0.9		0.0	0.1	0.0	0.0	25.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		195.26	-56.8	4.9	-21.1	-1.0		0.0	0.4	0.0	0.0	22.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		219.54	-57.8	5.1	-17.7	-1.0	-0.38	0.0	2.6	0.0	0.0	26.2
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		220.58	-57.9	5.1	-17.6	-1.0	-0.38	0.0	3.0	0.0	0.0	26.6
Motor & Pump P 1601 A	Leq,D	96.3	2	180.05	-56.1	4.5	-21.9	-1.0		0.0	8.9	0.0	0.0	30.7
Motor & Pump P 1601 B	Leq,D	96.3	2	179.36	-56.1	4.5	-22.0	-1.0		0.0	4.9	0.0	0.0	26.6
Motor & Pump P 1602 A	Leq,D	96.3	2	178.66	-56.0	4.5	-22.1	-1.1		0.0	0.7	0.0	0.0	22.4
Motor & Pump P 1602 B	Leq,D	96.5	2	178.01	-56.0	4.5	-22.1	-1.0		0.0	1.1	0.0	0.0	22.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	189.29	-56.5	5.0	-14.8	-1.1	-0.09	0.0	0.2	0.0	0.0	29.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	193.48	-56.7	5.0	-12.1	-1.2	-0.21	0.0	0.1	0.0	0.0	31.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	195.59	-56.8	5.0	-17.3	-1.0	-0.22	0.0	0.3	0.0	0.0	26.6
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	196.17	-56.8	4.9	-19.0	-0.9	-0.04	0.0	3.5	0.0	0.0	28.4
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	197.67	-56.9	5.0	-17.0	-0.9	-0.08	0.0	2.6	0.0	0.0	29.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	196.73	-56.9	5.0	-20.0	-0.9	-0.04	0.0	1.0	0.0	0.0	24.5
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	197.83	-56.9	5.0	-19.5	-0.9	-0.15	0.0	0.6	0.0	0.0	24.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	199.73	-57.0	5.0	-17.6	-0.9	-0.33	0.0	0.4	0.0	0.0	25.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	198.84	-57.0	5.0	-18.4	-0.9	-0.25	0.0	0.0	0.0	0.0	24.9
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	244.25	-58.7	4.8	-12.1	-0.8	-0.55	0.0	3.4	0.0	0.0	40.1
P-2 A/B	Leq,D	98.5		216.42	-57.7	5.5	-8.7	-0.8	-1.49	0.0	3.0	0.0	0.0	38.3
P-50 A/B	Leq,D	98.1		178.47	-56.0	5.3	-22.1	-0.7	-0.22	0.0	0.4	0.0	0.0	24.8
P-51 A/B	Leq,D	98.1		178.35	-56.0	5.3	-15.7	-0.6	-0.23	0.0	4.2	0.0	0.0	35.1
P-060 A/B	Leq,D	98.1		178.93	-56.0	5.3	-22.3	-0.7	-1.76	0.0	1.7	0.0	0.0	24.3
P-63	Leq,D	98.5		186.47	-56.4	5.4	0.0	-1.0	-1.47	0.0	1.0	0.0	0.0	46.0
P-70 A/B	Leq,D	98.1		178.62	-56.0	5.3	-21.5	-0.7	-1.74	0.0	0.3	0.0	0.0	23.8
P-73 A/B	Leq,D	98.5		211.93	-57.5	5.4	-8.3	-0.8	-1.48	0.0	3.0	0.0	0.0	38.8
P-251 A/B	Leq,D	98.2		49.80	-44.9	3.6	0.0	-0.3	-0.23	0.0	0.1	0.0	0.0	56.5
P-252 A/B	Leq,D	98.2		59.18	-46.4	4.0	0.0	-0.3	-0.36	0.0	0.1	0.0	0.0	55.2
P-253	Leq,D	98.2		65.46	-47.3	4.2	0.0	-0.4	-0.54	0.0	0.1	0.0	0.0	54.3
P-254 A/B	Leq,D	98.2		59.97	-46.6	4.0	0.0	-0.4	-0.49	0.0	0.1	0.0	0.0	55.0
P-255 A/B	Leq,D	98.2		56.83	-46.1	3.9	0.0	-0.3	-0.41	0.0	0.1	0.0	0.0	55.4
P-255 A/B	Leq,D	98.2		43.83	-43.8	3.3	0.0	-0.3	-0.05	0.0	0.1	0.0	0.0	57.5
P-256 A/B	Leq,D	98.2		52.84	-45.5	3.8	0.0	-0.3	-0.31	0.0	0.1	0.0	0.0	56.0
P-259 A/B	Leq,D	98.2		46.85	-44.4	3.5	0.0	-0.3	-0.14	0.0	0.1	0.0	0.0	56.9
P-260	Leq,D	99.1		45.82	-44.2	3.4	0.0	-0.3	-0.25	0.0	0.1	0.0	0.0	57.9
P-261 A/B	Leq,D	98.0		38.15	-42.6	3.0	0.0	-0.2	-0.20	0.0	0.6	0.0	0.0	58.5
P-262 A/B	Leq,D	99.1		41.66	-43.4	3.2	0.0	-0.3	-0.23	0.0	0.7	0.0	0.0	59.1
P-263 A/B	Leq,D	99.4		43.64	-43.8	3.3	0.0	-0.3	-0.24	0.0	0.1	0.0	0.0	58.5
P-270 A/B	Leq,D	98.5		101.42	-51.1	4.8	0.0	-0.6	-0.79	0.0	0.9	0.0	0.0	51.8
P-271 A/B	Leq,D	98.2		69.12	-47.8	4.3	0.0	-0.4	-0.70	0.0	0.1	0.0	0.0	53.7
P-272 A/B	Leq,D	98.2		64.65	-47.2	4.2	0.0	-0.4	-0.60	0.0	0.1	0.0	0.0	54.3
P-273 A/B	Leq,D	98.5		97.94	-50.8	4.8	0.0	-0.6	-0.75	0.0	0.2	0.0	0.0	51.4
P-275 A/B/C	Leq,D	98.2		75.44	-48.5	4.4	0.0	-0.4	-0.79	0.0	0.2	0.0	0.0	53.1
P-305	Leq,D	99.3		114.36	-52.2	5.0	-20.7	-0.4	-0.10	0.0	8.1	0.0	0.0	39.0
P-306	Leq,D	100.8		124.04	-52.9	5.0	0.0	-0.7	-0.31	0.0	0.0	0.0	0.0	52.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-309	Leq,D	99.3		116.69	-52.3	5.0	-19.9	-0.4	-0.16	0.0	7.4	0.0	0.0	39.0
P-328	Leq,D	100.8		129.76	-53.3	5.1	0.0	-0.7	-0.44	0.0	0.0	0.0	0.0	51.5
P-329	Leq,D	100.8		126.95	-53.1	5.1	0.0	-0.7	-0.38	0.0	0.0	0.0	0.0	51.7
P-353	Leq,D	98.5		113.93	-52.1	4.2	0.0	-0.6	-0.14	0.0	0.0	0.0	0.0	49.8
P-358 A/B	Leq,D	99.4		133.42	-53.5	5.1	-12.7	-0.4	-0.92	0.0	0.2	0.0	0.0	37.2
P-359 A/B	Leq,D	99.4		133.24	-53.5	5.1	0.0	-0.7	-0.87	0.0	0.0	0.0	0.0	49.4
P-360 A/B	Leq,D	99.4		133.24	-53.5	5.1	0.0	-0.7	-0.58	0.0	0.1	0.0	0.0	49.9
P-361A	Leq,D	98.1		181.21	-56.2	4.9	0.0	-0.9	-1.79	0.0	0.0	0.0	0.0	44.1
P-371 A/B	Leq,D	98.0		133.36	-53.5	4.4	-12.4	-0.4		0.0	4.0	0.0	0.0	40.2
P-373 A/B	Leq,D	98.0		126.79	-53.1	4.4	-13.9	-0.4		0.0	4.8	0.0	0.0	39.8
P-374 A/B	Leq,D	98.0		128.11	-53.1	4.4	-13.7	-0.4		0.0	5.0	0.0	0.0	40.2
P-375 A/B	Leq,D	98.0		131.57	-53.4	4.4	-13.2	-0.4		0.0	4.4	0.0	0.0	39.9
P-376	Leq,D	98.0		128.96	-53.2	4.4	-13.7	-0.4		0.0	5.2	0.0	0.0	40.2
P-376 A/B	Leq,D	98.0		125.62	-53.0	4.4	-13.9	-0.4		0.0	4.1	0.0	0.0	39.1
P-377	Leq,D	98.0		129.89	-53.3	4.4	-13.7	-0.4		0.0	4.8	0.0	0.0	39.9
P-1101 A	Leq,D	98.9		206.47	-57.3	5.0	-7.9	-0.7		0.0	1.5	0.0	0.0	39.4
P-1103	Leq,D	98.9		205.00	-57.2	5.0	-8.1	-0.7		0.0	1.5	0.0	0.0	39.3
P-1105 A/B/C	Leq,D	98.9		212.09	-57.5	5.0	-7.7	-0.7		0.0	1.1	0.0	0.0	39.1
P-1800	Leq,D	98.9		241.45	-58.6	5.5	-11.3	-0.7	-1.56	0.0	5.9	0.0	0.0	38.1
P-1801	Leq,D	98.9		289.92	-60.2	5.6	-4.7	-1.4	-1.47	0.0	0.0	0.0	0.0	36.7
P-1802	Leq,D	98.9		289.51	-60.2	5.6	-4.6	-1.4	-1.47	0.0	0.0	0.0	0.0	36.8
P-1803	Leq,D	99.1		194.43	-56.8	5.4	-6.8	-0.8	-2.12	0.0	3.4	0.0	0.0	41.4
P-1804	Leq,D	99.1		204.32	-57.2	5.4	-4.8	-1.0	-1.74	0.0	0.2	0.0	0.0	39.9
P-1805	Leq,D	99.1		207.47	-57.3	5.4	-4.8	-1.1	-1.74	0.0	0.1	0.0	0.0	39.8
P-1806	Leq,D	99.1		170.97	-55.7	5.3	-3.1	-0.8	-1.57	0.0	0.3	0.0	0.0	43.6
P-1809 A	Leq,D	98.9		252.63	-59.0	5.5	-13.1	-0.8	-1.53	0.0	7.4	0.0	0.0	37.4
P-1810 A/B/C	Leq,D	99.0		211.98	-57.5	5.4	-4.8	-1.1	-1.96	0.0	0.1	0.0	0.0	39.2
P-1811 A/B	Leq,D	99.1		177.56	-56.0	5.3	-4.0	-0.7	-1.66	0.0	0.4	0.0	0.0	42.6
P-1811 A/B	Leq,D	99.1		211.33	-57.5	5.4	-4.7	-1.1	-1.74	0.0	0.1	0.0	0.0	39.6
P-1847 A/B	Leq,D	99.4		213.27	-57.6	5.4	-4.7	-1.1	-1.05	0.0	2.2	0.0	0.0	42.6
P-1849 A/B	Leq,D	99.4		218.94	-57.8	5.5	-4.7	-1.1	-1.04	0.0	2.4	0.0	0.0	42.5
P-1853	Leq,D	99.1		65.46	-47.3	4.2	0.0	-0.4		0.0	0.1	0.0	0.0	55.7
Piping Furnace Tanks	Leq,D	87.1	72	153.15	-54.7	3.0	-3.1	-5.4	-0.32	0.0	2.2	0.0	0.0	28.7
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	132.68	-53.4	3.0	-4.6	-4.3	-0.32	0.0	0.5	0.0	0.0	39.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	165.51	-55.4	3.3	-18.8	-1.2	-0.09	0.0	2.5	0.0	0.0	44.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	163.71	-55.3	3.3	-21.5	-3.4	-0.12	0.0	2.1	0.0	0.0	40.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	287.91	-60.2	3.8	-22.2	-1.1	-0.93	0.0	0.7	0.0	0.0	30.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	272.60	-59.7	3.7	-16.1	-0.9	-1.02	0.0	6.6	0.0	0.0	43.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	244.60	-58.8	3.6	-11.8	-0.8	-1.02	0.0	0.3	0.0	0.0	35.6
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	258.51	-59.2	3.7	-9.1	-1.0	-0.94	0.0	0.4	0.0	0.0	44.9
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	237.84	-58.5	3.6	-0.2	-1.2	-1.05	0.0	0.1	0.0	0.0	46.7
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	250.66	-59.0	3.6	-8.5	-1.0	-1.01	0.0	0.0	0.0	0.0	37.8
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	236.94	-58.5	3.6	-0.6	-1.3	-0.96	0.0	0.0	0.0	0.0	48.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	239.57	-58.6	3.6	-9.2	-0.9	-1.04	0.0	3.7	0.0	0.0	43.6
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	263.31	-59.4	3.0	-5.8	-1.2	-0.92	0.0	1.3	0.0	0.0	50.1
PSA Pipe 3" Lagging	Leq,D	80.6	11	163.18	-55.2	3.0	-17.2	-1.0	-0.14	0.0	0.7	0.0	0.0	10.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	165.87	-55.4	3.3	-19.0	-1.2	-0.02	0.0	1.9	0.0	0.0	46.2
Reformer-Burner Reformer East	Leq,D	97.3	269	171.35	-55.7	3.0	-20.8	-0.9	-0.42	0.0	0.1	0.0	0.0	25.6
Reformer-Burner Reformer North	Leq,D	95.9	192	162.94	-55.2	3.0	-2.9	-1.5	-0.41	0.0	0.6	0.0	0.0	39.5

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer South	Leq,D	95.8	191	165.52	-55.4	3.0	-10.3	-0.7	-0.40	0.0	0.5	0.0	0.0	35.5
Reformer-Burner Reformer West	Leq,D	97.3	268	157.98	-55.0	3.0	-1.8	-1.4	-0.41	0.0	0.5	0.0	0.0	45.2
RFG A from battery to process	Leq,D	99.4	87	133.56	-53.5	3.0	-3.0	-4.4	-0.32	0.0	0.6	0.0	0.0	41.8
RFG A from battery to process w NC	Leq,D	115.2	42	166.46	-55.4	3.3	-20.7	-3.4	-0.12	0.0	2.4	0.0	0.0	41.3
Stack Noise	Leq,D	108.4		177.70	-56.0	3.0	-1.2	-1.6	-0.09	-7.9	0.2	0.0	0.0	44.9
Steam Turbine-Facade 01	Leq,D	99.6	29	148.63	-54.4	4.1	-10.3	-2.1		0.0	1.5	0.0	0.0	38.3
Steam Turbine-Facade 02	Leq,D	96.2	13	149.55	-54.5	4.1	-13.7	-1.7		0.0	3.5	0.0	0.0	33.9
Steam Turbine-Facade 03	Leq,D	99.6	29	152.25	-54.6	4.1	-22.4	-2.2		0.0	9.0	0.0	0.0	33.4
Steam Turbine-Facade 04	Leq,D	96.2	13	151.39	-54.6	4.1	-22.1	-2.1		0.0	10.0	0.0	0.0	31.5
Steam Turbine-Roof 01	Leq,D	99.7	30	150.46	-54.5	3.0	-8.0	-2.7		0.0	3.9	0.0	0.0	41.5
Tank Farm Pump 1	Leq,D	99.0	3	215.55	-57.7	5.0	-3.7	-1.9	-0.68	0.0	1.0	0.0	0.0	41.1
Tank Farm Pump 2	Leq,D	99.0	3	232.82	-58.3	5.1	-4.0	-1.9	-0.83	0.0	0.8	0.0	0.0	39.8
Tank Farm Pump 3	Leq,D	99.0	3	237.64	-58.5	5.1	-3.8	-2.0	-0.87	0.0	0.8	0.0	0.0	39.7
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	96.24	-50.7	3.1	0.0	-1.1		0.0	0.1	-11.8	0.0	52.1
XF-1502 Splitter Area 1	Leq,D	104.5		195.99	-56.8	3.0	-4.7	-1.4	-0.23	-4.2	0.8	0.0	0.0	40.9
XF-1502 Splitter Area 2	Leq,D	104.5		192.76	-56.7	3.0	-2.0	-1.2	-0.06	-4.0	0.4	0.0	0.0	44.0
XF-1504 Splitter Area 1	Leq,D	104.5		193.83	-56.7	3.0	-4.7	-1.4	-0.05	-4.2	0.7	0.0	0.0	41.1
XF-1504 Splitter Area 2	Leq,D	104.5		190.56	-56.6	3.0	-4.6	-1.4	-0.05	-4.2	0.7	0.0	0.0	41.3
XF 251, 250, 271, 270	Leq,D	101.1	128	71.53	-48.1	3.0	0.0	-0.3	-0.70	-2.8	0.1	0.0	0.0	52.3
XF 260, 261A, 261 B	Leq,D	99.9	97	34.84	-41.8	3.0	0.0	-0.2	-0.08	-2.5	0.0	0.0	0.0	58.3
XF 304, XF 321	Leq,D	110.5	56	257.40	-59.2	3.0	-7.8	-0.5	-0.10	-2.0	0.6	0.0	0.0	44.6
XF 313, XF 314	Leq,D	113.0	18	281.63	-60.0	3.1	-11.7	-0.7	-0.40	-2.8	0.0	0.0	0.0	40.5
XF 335-1, XF 335-2	Leq,D	113.4	54	266.88	-59.5	3.0	-9.8	-0.7	-0.10	-2.1	0.2	0.0	0.0	44.4
XF 353A/B	Leq,D	95.4	35	140.32	-53.9	3.0	0.0	-0.6	-0.75	-2.9	0.1	0.0	0.0	40.3
XF 353A/B	Leq,D	95.4	35	129.97	-53.3	3.0	-0.1	-0.6	-0.76	-3.0	0.2	0.0	0.0	41.0
XF 354A/B	Leq,D	95.4	35	113.10	-52.1	3.0	0.0	-0.5	-0.09	-2.9	0.1	0.0	0.0	43.0
XF 503	Leq,D	113.0	21	207.35	-57.3	3.0	-3.3	-2.4	-0.60	-3.8	0.3	0.0	0.0	49.0
XF - 1601	Leq,D	96.6		178.49	-56.0	3.0	-0.7	-0.7		-3.3	0.5	0.0	0.0	39.4
XF - 1602	Leq,D	96.6		175.98	-55.9	3.0	-0.7	-0.7		-3.3	0.9	0.0	0.0	39.9
XF Module 1510	Leq,D	108.3		192.53	-56.7	3.0	-3.0	-1.2	-0.12	-4.1	0.5	0.0	0.0	46.8
XF Module 1519	Leq,D	109.0		197.06	-56.9	3.0	-3.6	-1.3	-0.24	-4.0	0.6	0.0	0.0	46.6
xxxx xxxx xxxx xxxx	Leq,D		228								2.2			28.8
xxxx xxxx xxxx xxxx	Leq,D		520								1.6			29.1
xxxx xxxx xxxx xxxx	Leq,D		1341								2.7			44.8
xxxx xxxx xxxx xxxx	Leq,D		450								5.5			32.8
Receiver S-8 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 74.2	dB(A)	Ld 7-19	dB(A)	Leq,N 69.6	dB(A)	Le 19-22	dB(A)	CNEL 77.5	dB(A)	Lmax day hr	dB(A) Ld
ID Fan Motor	Leq,D	104.4	2	180.75	-56.1	4.4	-19.0	-0.9		0.0	0.2	0.0	0.0	32.9
18-1855 A/B	Leq,D	98.8		137.24	-53.7	4.6	-7.3	-0.5		0.0	0.0	0.0	0.0	41.9
18-1856 A/B	Leq,D	98.8		144.10	-54.2	4.7	-5.6	-0.6		0.0	0.7	0.0	0.0	43.9
18-1857 A/B	Leq,D	98.8		130.63	-53.3	4.6	-9.7	-0.4		0.0	1.5	0.0	0.0	41.4
18-1858 A/B	Leq,D	98.8		126.03	-53.0	4.0	-10.4	-0.4		0.0	1.3	0.0	0.0	40.3
18-PK 1802 Air Compressor Package	Leq,D	103.1		149.38	-54.5	5.2	0.0	-0.5		0.0	0.1	0.0	0.0	53.4
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	20.51	-37.2	3.0	0.0	-0.4		0.0	0.0	-2.7	0.0	71.7
Air Compressor C 1	Leq,D	110.0	5	177.05	-56.0	5.0	-8.8	-0.4	-0.59	0.0	1.6	0.0	0.0	50.9
Air Compressor Pump	Leq,D	100.3		61.99	-46.8	3.0	-15.7	-0.7		0.0	12.8	0.0	0.0	52.9
Blower F 401	Leq,D	113.0		77.11	-48.7	3.0	-12.1	-0.1		0.0	0.2	0.0	0.0	55.3
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	230.15	-58.2	4.9	-12.0	-0.5		0.0	0.1	0.0	0.0	32.9
Boiler Feed Water Pump A	Leq,D	97.1	3	150.88	-54.6	4.5	-7.1	-0.6		0.0	0.2	0.0	0.0	39.5
Boiler Feed Water Pump B	Leq,D	97.1	3	149.82	-54.5	4.5	-7.2	-0.6		0.0	0.0	0.0	0.0	39.3
C370 A Motor	Leq,D	103.6	3	87.47	-49.8	3.0	-18.1	-0.3		0.0	10.9	0.0	0.0	49.2
C370 B Motor	Leq,D	108.6	3	94.73	-50.5	3.0	-12.7	-0.4		0.0	5.1	0.0	0.0	53.1
C370A	Leq,D	103.8	5	90.89	-50.2	3.0	-6.9	-0.5		0.0	3.2	0.0	0.0	52.5
C370B	Leq,D	103.8	5	97.90	-50.8	3.0	-10.6	-0.4		0.0	5.7	0.0	0.0	50.8
C-270 A	Leq,D	106.3	6	181.96	-56.2	3.9	-0.5	-1.3	-1.31	0.0	0.9	0.0	0.0	51.8
C-270 B	Leq,D	106.3	6	177.17	-56.0	3.8	-1.6	-1.2	-1.15	0.0	0.9	0.0	0.0	51.2
C-270 C	Leq,D	106.3	6	172.46	-55.7	3.8	-3.4	-1.2	-1.04	0.0	0.9	0.0	0.0	49.7

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-301 Compressor	Leq,D	106.8	3	193.97	-56.7	4.0	-0.2	-1.4	-2.10	0.0	0.6	0.0	0.0	50.9
C-301 Motor	Leq,D	106.8	4	190.18	-56.6	4.0	0.0	-2.1	-2.07	0.0	0.9	0.0	0.0	50.9
C-351 Compressor	Leq,D	106.8	4	199.31	-57.0	4.1	-0.1	-1.5	-2.19	0.0	0.6	0.0	0.0	50.7
C-351 Motor	Leq,D	106.8	5	200.17	-57.0	3.6	-1.7	-2.1	-2.12	0.0	1.0	0.0	0.0	48.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	35.46	-42.0	3.1	-0.3	-0.1		0.0	0.1	-33.5	0.0	62.0
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	127.20	-53.1	3.5	-12.1	-0.4	-1.05	2.4	2.0	0.0	0.0	46.1
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	128.37	-53.2	3.5	-5.8	-0.5	-1.17	0.0	1.3	0.0	0.0	44.8
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	138.08	-53.8	3.6	-18.1	-0.3	-1.04	-7.7	8.4	0.0	0.0	37.5
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	132.19	-53.4	3.5	-13.3	-0.6	-0.86	2.5	0.1	0.0	0.0	48.7
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	127.65	-53.1	3.5	-11.5	-0.3	-1.10	2.3	0.9	0.0	0.0	44.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	142.94	-54.1	3.5	-19.0	-0.5	-0.80	-7.8	7.3	0.0	0.0	29.2
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	97.13	-50.7	3.3	-13.7	-0.2		3.9	0.0	0.0	0.0	40.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	99.58	-51.0	3.3	-17.7	-0.3		-4.4	0.0	0.0	0.0	27.8
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	95.66	-50.6	3.0	-8.7	-0.4		-2.4	0.0	0.0	0.0	41.6
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	95.22	-50.6	3.1	-18.2	-0.3		-1.3	4.4	0.0	0.0	37.8
Cooling Tower M 512	Leq,D	95.7		91.90	-50.3	3.5	-20.1	-0.4		0.0	1.3	0.0	0.0	29.8
Cooling Tower M 513	Leq,D	95.7		92.10	-50.3	3.4	-20.8	-0.4		0.0	1.5	0.0	0.0	29.1
Cooling Tower M 514	Leq,D	95.7		91.45	-50.2	3.4	-20.5	-0.4		0.0	1.5	0.0	0.0	29.6
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	154.55	-54.8	3.0	-3.1	-0.5		-2.6	1.2	0.0	0.0	39.0
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	176.96	-55.9	4.0	-16.2	0.0		0.0	0.0	0.0	0.0	27.2
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	177.54	-56.0	4.1	-15.1	0.0		0.0	0.8	0.0	0.0	26.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	176.12	-55.9	3.0	-16.0	0.0		0.0	0.1	0.0	0.0	24.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	174.53	-55.8	3.9	-13.7	-0.1		0.0	0.1	0.0	0.0	27.6
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	175.10	-55.9	4.0	-13.9	0.0		0.0	0.1	0.0	0.0	29.6
FD Motor	Leq,D	103.3	2	177.82	-56.0	4.3	-23.6	-1.6		0.0	2.5	0.0	0.0	28.9
Feed Compressor -B Motor	Leq,D	103.8	5	114.70	-52.2	3.0	-12.5	-0.8		0.0	5.8	0.0	0.0	47.2
Feed Compressor-A Compressor	Leq,D	104.0	5	105.41	-51.4	3.0	-14.3	-0.4		0.0	8.3	0.0	0.0	49.2
Feed Compressor-A Motor	Leq,D	103.8	6	102.63	-51.2	3.0	-13.4	-0.6		0.0	5.9	0.0	0.0	47.4
Feed Compressor-B Compressor	Leq,D	104.0	7	117.55	-52.4	3.0	-11.5	-0.5		0.0	6.2	0.0	0.0	48.8
H2S Compressor 18-C-271	Leq,D	105.3	6	144.75	-54.2	4.0	-6.2	-0.6	-0.45	0.0	1.6	0.0	0.0	49.5
Heater # 5-Heater	Leq,D	91.1	13	226.95	-58.1	4.9	-18.4	-0.5		0.0	8.0	0.0	0.0	29.9
Heater # 5-Heater	Leq,D	91.1	13	222.33	-57.9	4.9	-18.1	-0.5		0.0	7.6	0.0	0.0	30.0
Heater # 5-Heater	Leq,D	91.1	13	231.49	-58.3	4.9	-18.8	-0.5	-0.03	0.0	8.0	0.0	0.0	29.4
Hydro Heater H-402	Leq,D	98.1		101.16	-51.1	3.7	-4.8	-0.2		0.0	0.1	0.0	0.0	45.8
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	180.37	-56.1	4.4	-13.5	0.0		0.0	0.0	0.0	0.0	21.7
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	178.94	-56.0	4.4	-11.3	0.0		0.0	0.0	0.0	0.0	24.3
ID Fan-ID Fan - North	Leq,D	92.2	8	179.56	-56.1	4.4	-13.9	0.0		0.0	0.0	0.0	0.0	26.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	180.99	-56.1	4.4	-11.6	0.0		0.0	0.0	0.0	0.0	28.0
ID Fan-ID Fan - South	Leq,D	92.3	9	177.52	-56.0	4.3	-3.9	0.0		0.0	0.0	0.0	0.0	36.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	180.09	-56.1	4.4	-5.7	0.0		0.0	0.0	0.0	0.0	33.9
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	179.09	-56.1	3.6	-6.8	-0.1		0.0	0.0	0.0	0.0	34.7
Motor & Pump P 56A/B	Leq,D	93.7		119.00	-52.5	4.1	-7.4	-0.6	-0.30	0.0	0.6	0.0	0.0	37.5
Motor & Pump P 120/121	Leq,D	96.2	2	165.07	-55.3	4.8	-16.9	-0.6	-0.27	0.0	1.3	0.0	0.0	29.2
Motor & Pump P 211/212	Leq,D	93.7		109.51	-51.8	4.2	-6.3	-0.7	-0.81	0.0	0.2	0.0	0.0	38.3
Motor & Pump P 215/214	Leq,D	94.6		113.55	-52.1	4.3	-8.2	-0.6	-0.88	0.0	0.1	0.0	0.0	37.1
Motor & Pump P 216	Leq,D	98.3		114.41	-52.2	4.0	-11.5	-0.6	-0.87	0.0	3.2	0.0	0.0	40.4
Motor & Pump P 217/218	Leq,D	93.7		111.10	-51.9	4.7	-7.4	-0.7	-0.85	0.0	0.1	0.0	0.0	37.7

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 300	Leq,D	97.1	2	172.29	-55.7	4.9	-18.1	-0.6	-0.49	0.0	7.3	0.0	0.0	34.4
Motor & Pump P 301	Leq,D	102.1	2	170.79	-55.6	4.9	-18.1	-0.6	-0.49	0.0	7.6	0.0	0.0	39.8
Motor & Pump P 302	Leq,D	97.1	2	173.89	-55.8	4.9	-17.9	-0.6	-0.50	0.0	7.1	0.0	0.0	34.4
Motor & Pump P 303	Leq,D	97.1	2	175.27	-55.9	4.8	-17.5	-0.6	-0.50	0.0	6.8	0.0	0.0	34.3
Motor & Pump P 305	Leq,D	97.5	2	176.60	-55.9	4.8	-17.5	-0.6	-0.51	0.0	6.7	0.0	0.0	34.5
Motor & Pump P 306	Leq,D	112.6	4	184.75	-56.3	4.7	-18.3	-0.7	-0.43	0.0	4.8	0.0	0.0	46.4
Motor & Pump P 307	Leq,D	102.1	2	166.48	-55.4	4.8	-16.7	-0.6	-0.48	0.0	5.6	0.0	0.0	39.4
Motor & Pump P 309	Leq,D	97.5	2	177.94	-56.0	4.9	-17.6	-0.6	-0.51	0.0	6.6	0.0	0.0	34.3
Motor & Pump P 312	Leq,D	101.5	2	147.50	-54.4	4.9	-9.3	-0.5	-0.72	0.0	2.8	0.0	0.0	44.2
Motor & Pump P 313	Leq,D	101.5	2	145.99	-54.3	4.9	-5.7	-0.6	-0.83	0.0	1.1	0.0	0.0	46.1
Motor & Pump P 315	Leq,D	102.9	2	140.75	-54.0	4.6	-3.6	-0.6	-0.96	0.0	0.7	0.0	0.0	49.1
Motor & Pump P 316	Leq,D	102.9	2	139.11	-53.9	4.6	-4.0	-0.6	-1.00	0.0	1.0	0.0	0.0	49.1
Motor & Pump P 317	Leq,D	102.9	2	137.43	-53.8	4.5	-3.9	-0.6	-1.04	0.0	0.9	0.0	0.0	49.0
Motor & Pump P 318	Leq,D	100.2	1	142.11	-54.0	5.0	0.0	-0.8	-0.89	0.0	0.1	0.0	0.0	49.5
Motor & Pump P 319	Leq,D	100.2	1	143.36	-54.1	5.0	0.0	-0.8	-0.86	0.0	0.0	0.0	0.0	49.5
Motor & Pump P 327	Leq,D	111.2	3	192.24	-56.7	4.9	-22.4	-1.2	-0.08	0.0	3.1	0.0	0.0	38.9
Motor & Pump P 328	Leq,D	109.9	5	179.48	-56.1	4.7	-17.3	-0.6	-0.30	0.0	5.3	0.0	0.0	45.6
Motor & Pump P 329	Leq,D	110.2	5	182.08	-56.2	4.7	-18.1	-0.6	-0.31	0.0	6.1	0.0	0.0	45.7
Motor & Pump P 451	Leq,D	93.7		94.53	-50.5	3.6	-11.4	-0.5		0.0	0.7	0.0	0.0	35.5
Motor & Pump P 453	Leq,D	93.7		83.00	-49.4	3.2	-8.4	-0.4		0.0	1.0	0.0	0.0	39.7
Motor & Pump P 454	Leq,D	93.7		95.63	-50.6	3.6	-12.4	-0.4		0.0	0.7	0.0	0.0	34.6
Motor & Pump P 457	Leq,D	93.7		81.70	-49.2	3.2	-7.6	-0.4		0.0	0.8	0.0	0.0	40.4
Motor & Pump P 458	Leq,D	93.7		93.97	-50.5	3.6	-8.6	-0.5		0.0	0.0	0.0	0.0	37.8
Motor & Pump P 459	Leq,D	93.7		96.50	-50.7	3.6	-11.8	-0.5		0.0	0.7	0.0	0.0	35.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		115.89	-52.3	4.2	-17.2	-0.6		0.0	0.1	0.0	0.0	30.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		117.51	-52.4	4.2	-17.7	-0.6		0.0	0.1	0.0	0.0	29.9
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		148.35	-54.4	4.6	-20.2	-0.8	-0.27	0.0	4.1	0.0	0.0	28.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		149.50	-54.5	4.7	-20.2	-0.8	-0.27	0.0	7.4	0.0	0.0	31.7
Motor & Pump P 1601 A	Leq,D	96.3	2	112.15	-52.0	3.6	-21.7	-0.8		0.0	1.0	0.0	0.0	26.5
Motor & Pump P 1601 B	Leq,D	96.3	2	112.11	-52.0	3.6	-21.8	-0.8		0.0	0.4	0.0	0.0	25.7
Motor & Pump P 1602 A	Leq,D	96.3	2	111.89	-52.0	3.6	-21.9	-0.8		0.0	0.4	0.0	0.0	25.6
Motor & Pump P 1602 B	Leq,D	96.5	2	111.89	-52.0	3.6	-21.9	-0.8		0.0	0.3	0.0	0.0	25.8
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	114.28	-52.2	4.3	-20.8	-0.7	-0.08	0.0	0.5	0.0	0.0	27.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	119.07	-52.5	4.3	-20.2	-0.6	-0.19	0.0	0.4	0.0	0.0	27.8
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	121.48	-52.7	4.4	-19.9	-0.6	-0.24	0.0	0.4	0.0	0.0	27.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	118.78	-52.5	4.3	-17.9	-0.6		0.0	1.7	0.0	0.0	31.7
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	120.51	-52.6	4.3	-17.8	-0.6		0.0	2.7	0.0	0.0	32.6
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	125.51	-53.0	4.5	-16.5	-0.5	-0.17	0.0	0.5	0.0	0.0	31.1
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	125.82	-53.0	4.5	-20.4	-0.7	-0.35	0.0	1.7	0.0	0.0	28.1
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	126.37	-53.0	4.4	-19.8	-0.6	-0.35	0.0	0.0	0.0	0.0	26.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	126.08	-53.0	4.4	-21.0	-0.8	-0.21	0.0	2.1	0.0	0.0	27.9
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	169.28	-55.6	4.2	-13.6	-0.5		0.0	0.6	0.0	0.0	39.3
P-2 A/B	Leq,D	98.5		300.82	-60.6	5.6	-18.4	-1.0	-2.57	0.0	10.5	0.0	0.0	32.1
P-50 A/B	Leq,D	98.1		259.84	-59.3	5.5	-22.8	-1.0	-1.26	0.0	1.4	0.0	0.0	20.7
P-51 A/B	Leq,D	98.1		260.51	-59.3	5.5	-18.6	-0.9	-1.15	0.0	0.4	0.0	0.0	24.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-060 A/B	Leq,D	98.1		258.20	-59.2	5.5	-21.1	-0.8	-3.55	0.0	10.5	0.0	0.0	29.4
P-63	Leq,D	98.5		272.81	-59.7	5.6	-4.7	-1.4	-1.76	0.0	0.1	0.0	0.0	36.6
P-70 A/B	Leq,D	98.1		258.86	-59.3	5.5	-21.4	-0.8	-3.57	0.0	1.2	0.0	0.0	19.8
P-73 A/B	Leq,D	98.5		296.42	-60.4	5.6	-18.1	-1.0	-2.49	0.0	11.0	0.0	0.0	33.1
P-251 A/B	Leq,D	98.2		121.18	-52.7	5.0	0.0	-0.7	-0.99	0.0	0.3	0.0	0.0	49.2
P-252 A/B	Leq,D	98.2		123.43	-52.8	5.0	0.0	-0.7	-1.06	0.0	0.3	0.0	0.0	49.0
P-253	Leq,D	98.2		131.32	-53.4	5.1	0.0	-0.7	-1.23	0.0	0.3	0.0	0.0	48.3
P-254 A/B	Leq,D	98.2		132.68	-53.4	5.1	0.0	-0.7	-1.25	0.0	0.4	0.0	0.0	48.3
P-255 A/B	Leq,D	98.2		129.19	-53.2	5.1	0.0	-0.7	-1.17	0.0	0.4	0.0	0.0	48.6
P-255 A/B	Leq,D	98.2		113.82	-52.1	5.0	0.0	-0.6	-0.77	0.0	0.3	0.0	0.0	49.9
P-256 A/B	Leq,D	98.2		124.66	-52.9	5.1	0.0	-0.7	-1.07	0.0	0.3	0.0	0.0	48.9
P-259 A/B	Leq,D	98.2		117.61	-52.4	5.0	0.0	-0.6	-0.92	0.0	0.3	0.0	0.0	49.6
P-260	Leq,D	99.1		103.45	-51.3	4.9	0.0	-0.6	-0.63	0.0	0.2	0.0	0.0	51.7
P-261 A/B	Leq,D	98.0		79.11	-49.0	4.5	0.0	-0.5	-0.11	0.0	0.0	0.0	0.0	53.0
P-262 A/B	Leq,D	99.1		94.67	-50.5	4.8	0.0	-0.5	-0.44	0.0	0.2	0.0	0.0	52.6
P-263 A/B	Leq,D	99.4		98.85	-50.9	4.8	0.0	-0.6	-0.53	0.0	0.2	0.0	0.0	52.4
P-270 A/B	Leq,D	98.5		175.74	-55.9	5.3	-4.8	-0.9	-1.79	0.0	3.4	0.0	0.0	43.8
P-271 A/B	Leq,D	98.2		142.66	-54.1	5.2	0.0	-0.8	-1.46	0.0	0.4	0.0	0.0	47.5
P-272 A/B	Leq,D	98.2		137.82	-53.8	5.1	0.0	-0.7	-1.36	0.0	0.4	0.0	0.0	47.9
P-273 A/B	Leq,D	98.5		172.14	-55.7	5.3	-4.5	-0.9	-1.71	0.0	2.9	0.0	0.0	43.9
P-275 A/B/C	Leq,D	98.2		142.94	-54.1	5.2	0.0	-0.8	-1.48	0.0	0.3	0.0	0.0	47.4
P-305	Leq,D	99.3		203.46	-57.2	5.4	0.0	-1.0	-0.10	0.0	0.1	0.0	0.0	46.5
P-306	Leq,D	100.8		212.76	-57.5	5.4	0.0	-1.1	-0.33	0.0	0.1	0.0	0.0	47.3
P-309	Leq,D	99.3		205.69	-57.3	5.4	0.0	-1.1	-0.16	0.0	0.1	0.0	0.0	46.3
P-328	Leq,D	100.8		218.26	-57.8	5.5	0.0	-1.1	-0.46	0.0	0.1	0.0	0.0	47.0
P-329	Leq,D	100.8		215.54	-57.7	5.5	0.0	-1.1	-0.40	0.0	0.1	0.0	0.0	47.2
P-353	Leq,D	98.5		200.74	-57.0	5.0	-3.1	-1.4	-0.15	0.0	0.3	0.0	0.0	42.1
P-358 A/B	Leq,D	99.4		214.23	-57.6	5.4	-4.7	-1.1	-2.59	0.0	0.7	0.0	0.0	39.6
P-359 A/B	Leq,D	99.4		215.21	-57.6	5.5	-8.5	-0.7	-2.41	0.0	3.2	0.0	0.0	38.8
P-360 A/B	Leq,D	99.4		217.30	-57.7	5.5	-6.5	-0.7	-1.72	0.0	0.7	0.0	0.0	38.9
P-361A	Leq,D	98.1		255.69	-59.1	5.2	-4.2	-1.4	-2.82	0.0	1.7	0.0	0.0	37.4
P-371 A/B	Leq,D	98.0		71.74	-48.1	3.1	0.0	-0.4		0.0	0.1	0.0	0.0	52.7
P-373 A/B	Leq,D	98.0		79.45	-49.0	3.4	0.0	-0.5		0.0	0.3	0.0	0.0	52.2
P-374 A/B	Leq,D	98.0		77.82	-48.8	3.3	0.0	-0.4		0.0	0.2	0.0	0.0	52.3
P-375 A/B	Leq,D	98.0		74.76	-48.5	3.2	0.0	-0.4		0.0	0.1	0.0	0.0	52.4
P-376	Leq,D	98.0		76.77	-48.7	3.3	0.0	-0.4		0.0	0.2	0.0	0.0	52.4
P-376 A/B	Leq,D	98.0		81.52	-49.2	3.5	0.0	-0.5		0.0	1.2	0.0	0.0	53.0
P-377	Leq,D	98.0		76.01	-48.6	3.3	0.0	-0.4		0.0	0.2	0.0	0.0	52.4
P-1101 A	Leq,D	98.9		288.09	-60.2	5.3	-3.0	-1.1	-3.54	0.0	0.0	0.0	0.0	36.4
P-1103	Leq,D	98.9		286.62	-60.1	5.3	-3.0	-1.1	-3.54	0.0	0.0	0.0	0.0	36.4
P-1105 A/B/C	Leq,D	98.9		293.60	-60.3	5.3	-2.8	-1.1	-3.54	0.0	0.0	0.0	0.0	36.4
P-1800	Leq,D	98.9		328.07	-61.3	5.6	-12.6	-1.0	-1.86	0.0	5.6	0.0	0.0	33.4
P-1801	Leq,D	98.9		375.14	-62.5	5.7	-12.0	-1.2	-2.47	0.0	5.0	0.0	0.0	31.5
P-1802	Leq,D	98.9		374.49	-62.5	5.7	-24.6	-1.7	-0.28	0.0	17.1	0.0	0.0	32.6
P-1803	Leq,D	99.1		266.37	-59.5	5.6	-4.8	-1.3		0.0	1.2	0.0	0.0	40.3
P-1804	Leq,D	99.1		280.07	-59.9	5.6	-4.8	-1.4	-3.42	0.0	1.4	0.0	0.0	36.6
P-1805	Leq,D	99.1		283.24	-60.0	5.6	-4.8	-1.4	-3.42	0.0	1.5	0.0	0.0	36.6
P-1806	Leq,D	99.1		242.11	-58.7	5.5	-4.7	-1.2		0.0	1.0	0.0	0.0	41.0
P-1809 A	Leq,D	98.9		338.45	-61.6	5.7	-12.0	-1.1	-2.31	0.0	7.0	0.0	0.0	34.5
P-1810 A/B/C	Leq,D	99.0		285.25	-60.1	5.6	-4.8	-1.4	-1.98	0.0	1.9	0.0	0.0	38.3
P-1811 A/B	Leq,D	99.1		248.98	-58.9	5.5	-4.7	-1.2		0.0	2.2	0.0	0.0	41.9
P-1811 A/B	Leq,D	99.1		287.14	-60.2	5.6	-4.7	-1.4	-3.42	0.0	1.7	0.0	0.0	36.7
P-1847 A/B	Leq,D	99.4		266.03	-59.5	5.6	-7.8	-0.9		0.0	2.1	0.0	0.0	38.9
P-1849 A/B	Leq,D	99.4		272.49	-59.7	5.6	-6.1	-1.0		0.0	1.6	0.0	0.0	39.8
P-1853	Leq,D	99.1		154.65	-54.8	5.2	0.0	-0.8		0.0	0.7	0.0	0.0	49.4
Piping Furnace Tanks	Leq,D	87.1	72	137.11	-53.7	3.0	-1.8	-4.6		0.0	0.8	0.0	0.0	30.7
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	116.96	-52.4	3.0	-2.5	-4.3		0.0	1.5	0.0	0.0	43.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	124.84	-52.9	3.0	-14.6	-1.0		0.0	1.4	0.0	0.0	50.5
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	124.60	-52.9	3.0	-18.1	-3.0		0.0	1.7	0.0	0.0	45.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	352.72	-61.9	4.1	-21.2	-1.2		0.0	2.0	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	331.95	-61.4	4.0	-17.6	-1.1		0.0	3.9	0.0	0.0	38.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	303.68	-60.6	3.8	-7.6	-1.1		0.0	0.4	0.0	0.0	39.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	326.31	-61.3	3.6	-0.1	-1.6		0.0	0.1	0.0	0.0	51.9
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	301.02	-60.6	3.4	0.0	-1.5		0.0	3.3	0.0	0.0	48.7
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	309.06	-60.8	3.9	-6.4	-1.3		0.0	0.3	0.0	0.0	39.4
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	297.82	-60.5	3.8	-0.3	-1.5		0.0	0.8	0.0	0.0	49.1
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	304.78	-60.7	3.8	-3.9	-1.4		0.0	1.1	0.0	0.0	45.0
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	326.74	-61.3	3.0	-5.2	-1.5		0.0	1.8	0.0	0.0	49.9
PSA Pipe 3" Lagging	Leq,D	80.6	11	133.09	-53.5	3.0	-5.3	-1.3		0.0	1.2	0.0	0.0	24.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	123.59	-52.8	3.0	-15.2	-1.0		0.0	1.2	0.0	0.0	51.8
Reformer-Burner Reformer East	Leq,D	97.3	269	160.02	-55.1	3.0	-19.1	-0.8		0.0	1.3	0.0	0.0	29.7
Reformer-Burner Reformer North	Leq,D	95.9	192	148.62	-54.4	3.0	-0.5	-1.3		0.0	0.4	0.0	0.0	43.0
Reformer-Burner Reformer South	Leq,D	95.8	191	161.73	-55.2	3.0	-20.6	-0.9		0.0	1.4	0.0	0.0	26.6
Reformer-Burner Reformer West	Leq,D	97.3	268	150.01	-54.5	3.0	-2.8	-1.3		0.0	0.8	0.0	0.0	45.5
RFG A from battery to process	Leq,D	99.4	87	121.78	-52.7	3.0	-2.9	-4.3		0.0	0.9	0.0	0.0	43.3
RFG A from battery to process w NC	Leq,D	115.2	42	127.13	-53.1	3.0	-17.0	-3.1		0.0	2.2	0.0	0.0	47.2
Stack Noise	Leq,D	108.4		185.67	-56.4	3.0	-1.1	-1.7		-7.8	0.2	0.0	0.0	44.8
Steam Turbine-Facade 01	Leq,D	99.6	29	104.97	-51.4	3.2	0.0	-2.9		0.0	0.4	0.0	0.0	48.9
Steam Turbine-Facade 02	Leq,D	96.2	13	108.35	-51.7	3.6	-12.7	-1.4		0.0	0.3	0.0	0.0	34.4
Steam Turbine-Facade 03	Leq,D	99.6	29	108.40	-51.7	3.6	-18.2	-1.2		0.0	14.3	0.0	0.0	46.3
Steam Turbine-Facade 04	Leq,D	96.2	13	105.12	-51.4	3.5	0.0	-2.9		0.0	2.6	0.0	0.0	48.1
Steam Turbine-Roof 01	Leq,D	99.7	30	106.71	-51.6	3.0	-4.8	-2.9		0.0	3.4	0.0	0.0	46.9
Tank Farm Pump 1	Leq,D	99.0	3	260.22	-59.3	5.2	-6.0	-1.5		0.0	0.9	0.0	0.0	38.3
Tank Farm Pump 2	Leq,D	99.0	3	280.64	-60.0	5.3	-5.6	-1.7		0.0	0.9	0.0	0.0	37.9
Tank Farm Pump 3	Leq,D	99.0	3	286.31	-60.1	5.3	-5.5	-1.7		0.0	0.8	0.0	0.0	37.8
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	49.90	-45.0	3.0	0.0	-0.7		0.0	0.1	-11.8	0.0	58.0
XF-1502 Splitter Area 1	Leq,D	104.5		122.94	-52.8	3.0	-14.2	-0.4	0.00	-2.9	0.0	0.0	0.0	37.1
XF-1502 Splitter Area 2	Leq,D	104.5		119.25	-52.5	3.0	-10.9	-0.5	-0.18	-3.1	0.0	0.0	0.0	40.3
XF-1504 Splitter Area 1	Leq,D	104.5		122.29	-52.7	3.0	-12.0	-0.5	-0.17	-3.0	0.0	0.0	0.0	39.0
XF-1504 Splitter Area 2	Leq,D	104.5		118.58	-52.5	3.0	-12.0	-0.5	-0.17	-3.1	0.0	0.0	0.0	39.4
XF 251, 250, 271, 270	Leq,D	101.1	128	142.16	-54.0	3.0	0.0	-0.6	-1.39	-2.9	0.5	0.0	0.0	45.6
XF 260, 261A, 261 B	Leq,D	99.9	97	90.26	-50.1	3.0	0.0	-0.4	-0.31	-2.9	0.2	0.0	0.0	49.4
XF 304, XF 321	Leq,D	110.5	56	173.00	-55.8	3.0	-4.4	-0.5	-0.64	-2.4	0.7	0.0	0.0	50.5
XF 313, XF 314	Leq,D	113.0	18	200.03	-57.0	3.0	-10.5	-0.6	-0.49	-3.3	1.7	0.0	0.0	45.8
XF 335-1, XF 335-2	Leq,D	113.4	54	183.61	-56.3	3.0	-6.6	-0.7	-0.56	-2.5	0.4	0.0	0.0	50.2
XF 353A/B	Leq,D	95.4	35	222.92	-58.0	3.0	-0.2	-0.9	-2.36	-3.1	0.1	0.0	0.0	34.0
XF 353A/B	Leq,D	95.4	35	207.07	-57.3	3.0	0.0	-0.8	-2.36	-2.9	0.5	0.0	0.0	35.6
XF 354A/B	Leq,D	95.4	35	201.12	-57.1	3.0	0.0	-0.8	-0.10	-2.9	0.1	0.0	0.0	37.6
XF 503	Leq,D	113.0	21	120.19	-52.6	3.0	-2.0	-1.5	-0.74	-3.7	0.5	0.0	0.0	56.1
XF - 1601	Leq,D	96.6		111.70	-52.0	3.0	-7.0	-0.2		-1.6	0.7	0.0	0.0	39.5
XF - 1602	Leq,D	96.6		111.82	-52.0	3.0	-6.0	-0.2		-1.6	0.5	0.0	0.0	40.3
XF Module 1510	Leq,D	108.3		116.63	-52.3	3.0	-16.0	-0.4	-0.09	-2.6	0.0	0.0	0.0	39.9
XF Module 1519	Leq,D	109.0		121.85	-52.7	3.0	-15.5	-0.4	-0.20	-2.5	4.2	0.0	0.0	44.9
xxxx xxxx xxxx xxxx	Leq,D		228								3.4			27.6
xxxx xxxx xxxx xxxx	Leq,D		520								5.7			30.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
xxxx xxxx xxxx xxxx	Leq,D		1341								1.3			46.9
xxxx xxxx xxxx xxxx	Leq,D		450								5.6			29.3
Receiver S-9 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 76.3 dB(A)			Ld 7-19 dB(A)		Leq,N 75.8 dB(A)		Le 19-22 dB(A)		CNEL 82.5 dB(A)		Lmax day hr dB(A)	Ld
ID Fan Motor	Leq,D	104.4	2	226.17	-58.1	4.7	-23.1	-1.6	-0.38	0.0	0.0	0.0	0.0	25.9
18-1855 A/B	Leq,D	98.8		212.37	-57.5	5.1	-4.7	-0.8		0.0	1.0	0.0	0.0	41.8
18-1856 A/B	Leq,D	98.8		219.38	-57.8	5.1	-4.5	-0.8		0.0	1.0	0.0	0.0	41.7
18-1857 A/B	Leq,D	98.8		205.59	-57.3	5.1	-4.9	-0.8		0.0	1.0	0.0	0.0	42.0
18-1858 A/B	Leq,D	98.8		200.90	-57.1	4.7	-5.0	-0.7		0.0	0.4	0.0	0.0	41.2
18-PK 1802 Air Compressor Package	Leq,D	103.1		228.08	-58.2	5.5	-10.0	-0.4		0.0	0.3	0.0	0.0	40.3
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	46.82	-44.4	3.1	-0.1	-0.8		0.0	0.1	-2.7	0.0	64.1
Air Compressor C 1	Leq,D	110.0	5	114.65	-52.2	4.5	-15.0	-0.2	-0.63	0.0	1.3	0.0	0.0	47.8
Air Compressor Pump	Leq,D	100.3		139.42	-53.9	4.4	-13.7	-0.8		0.0	5.4	0.0	0.0	41.7
Blower F 401	Leq,D	113.0		19.96	-37.0	3.0	-6.0	0.0		0.0	0.0	0.0	0.0	73.0
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	321.19	-61.1	5.2	-11.0	-0.8		0.0	4.0	0.0	0.0	34.9
Boiler Feed Water Pump A	Leq,D	97.1	3	218.52	-57.8	5.0	-15.4	-0.7		0.0	5.2	0.0	0.0	33.4
Boiler Feed Water Pump B	Leq,D	97.1	3	218.60	-57.8	5.0	-13.3	-0.7		0.0	3.9	0.0	0.0	34.1
C370 A Motor	Leq,D	103.6	3	138.15	-53.8	3.0	-18.3	-0.5		0.0	5.1	0.0	0.0	39.1
C370 B Motor	Leq,D	108.6	3	148.60	-54.4	3.1	-18.0	-0.5		0.0	7.6	0.0	0.0	46.4
C370A	Leq,D	103.8	5	138.89	-53.8	3.0	-14.4	-0.4	-0.06	0.0	4.8	0.0	0.0	43.0
C370B	Leq,D	103.8	5	149.30	-54.5	3.2	-14.5	-0.4	-0.01	0.0	0.0	0.0	0.0	37.6
C-270 A	Leq,D	106.3	6	270.02	-59.6	4.6	0.0	-1.8	-1.88	0.0	1.5	0.0	0.0	49.0
C-270 B	Leq,D	106.3	6	265.39	-59.5	4.5	-0.7	-1.7	-1.76	0.0	1.6	0.0	0.0	48.7
C-270 C	Leq,D	106.3	6	260.84	-59.3	4.5	-2.7	-1.6	-1.70	0.0	1.8	0.0	0.0	47.3
C-301 Compressor	Leq,D	106.8	3	278.42	-59.9	4.6	-6.0	-1.3	-0.89	0.0	1.4	0.0	0.0	44.8
C-301 Motor	Leq,D	106.8	4	274.72	-59.8	4.6	-6.6	-1.8	-0.93	0.0	1.4	0.0	0.0	43.6
C-351 Compressor	Leq,D	106.8	4	286.08	-60.1	4.7	-1.9	-1.7	-1.94	0.0	1.9	0.0	0.0	47.7
C-351 Motor	Leq,D	106.8	5	287.49	-60.2	4.3	-1.2	-2.7	-2.23	0.0	1.4	0.0	0.0	46.3
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	35.46	-42.0	3.1	-0.4	-0.1		0.0	0.1	-33.5	0.0	61.8
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	44.94	-44.0	3.0	-10.6	-0.2	-0.63	4.5	1.8	0.0	0.0	58.5
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	49.35	-44.9	3.0	-0.7	-0.5	-0.61	0.0	0.0	0.0	0.0	56.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	54.88	-45.8	3.0	-16.6	-0.1	-0.47	-7.8	1.6	0.0	0.0	40.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	45.88	-44.2	3.0	-9.6	-0.3	-0.23	0.9	0.0	0.0	0.0	60.2
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	47.07	-44.4	3.0	-9.5	-0.2	-0.64	-0.1	0.1	0.0	0.0	52.1
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	54.79	-45.8	3.0	-16.1	-0.1	-0.06	-7.0	6.7	0.0	0.0	41.1
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	79.19	-49.0	3.2	-13.3	-0.3	-0.61	-7.8	16.0	0.0	0.0	46.0
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	69.53	-47.8	3.0	-6.9	-0.2	-0.71	2.3	0.5	0.0	0.0	48.1
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	99.59	-51.0	3.1	-17.5	-0.3	-0.52	-7.8	1.1	0.0	0.0	27.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	84.03	-49.5	3.1	-1.3	-0.6	-0.57	1.5	0.2	0.0	0.0	53.5
Cooling Tower M 512	Leq,D	95.7		70.21	-47.9	3.0	-2.5	-0.4	-0.59	0.0	0.1	0.0	0.0	47.5
Cooling Tower M 513	Leq,D	95.7		68.97	-47.8	3.0	-2.5	-0.4	-0.60	0.0	0.2	0.0	0.0	47.7
Cooling Tower M 514	Leq,D	95.7		71.37	-48.1	3.0	0.0	-0.4	-0.57	0.0	0.1	0.0	0.0	49.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	211.82	-57.5	3.0	-9.0	-0.3	-0.09	-1.7	0.7	0.0	0.0	30.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	217.20	-57.7	4.4	-15.4	-0.1	-0.10	0.0	0.0	0.0	0.0	26.4
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	216.71	-57.7	4.4	-14.1	-0.1	-0.10	0.0	0.0	0.0	0.0	25.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	215.99	-57.7	3.5	-15.4	-0.1	-0.10	0.0	0.0	0.0	0.0	23.8
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	215.24	-57.7	4.3	-12.6	-0.1	-0.11	0.0	0.0	0.0	0.0	27.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	214.75	-57.6	4.4	-13.8	-0.1	-0.11	0.0	0.1	0.0	0.0	28.2
FD Motor	Leq,D	103.3	2	218.30	-57.8	4.6	-23.3	-1.8	-0.44	0.0	0.6	0.0	0.0	25.2
Feed Compressor -B Motor	Leq,D	103.8	5	179.62	-56.1	3.6	-19.3	-0.9		0.0	6.5	0.0	0.0	37.6
Feed Compressor-A Compressor	Leq,D	104.0	5	165.72	-55.4	3.7	-19.5	-0.6		0.0	3.0	0.0	0.0	35.2
Feed Compressor-A Motor	Leq,D	103.8	6	165.54	-55.4	3.4	-21.0	-1.0		0.0	8.5	0.0	0.0	38.3
Feed Compressor-B Compressor	Leq,D	104.0	7	179.90	-56.1	3.8	-18.4	-0.6		0.0	5.4	0.0	0.0	38.2
H2S Compressor 18-C-271	Leq,D	105.3	6	79.54	-49.0	3.0	-8.0	-0.3	-0.85	0.0	1.1	0.0	0.0	51.3
Heater # 5-Heater	Leq,D	91.1	13	317.91	-61.0	5.2	-18.7	-0.7	0.00	0.0	0.3	0.0	0.0	19.2
Heater # 5-Heater	Leq,D	91.1	13	313.36	-60.9	5.2	-17.9	-0.7		0.0	0.3	0.0	0.0	20.1
Heater # 5-Heater	Leq,D	91.1	13	322.37	-61.2	5.2	-19.0	-0.7	-0.09	0.0	0.7	0.0	0.0	19.0
Hydro Heater H-402	Leq,D	98.1		50.59	-45.1	3.0	0.0	-0.4	-0.93	0.0	0.0	0.0	0.0	54.7
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	226.65	-58.1	4.7	-16.0	0.0	-0.06	0.0	0.0	0.0	0.0	17.5
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	226.05	-58.1	4.7	-10.4	-0.1	-0.06	0.0	0.0	0.0	0.0	23.4
ID Fan-ID Fan - North	Leq,D	92.2	8	225.43	-58.1	4.7	-15.6	0.0	-0.06	0.0	0.0	0.0	0.0	23.1
ID Fan-ID Fan - North 2	Leq,D	91.4	7	227.63	-58.1	4.7	-12.9	0.0	-0.06	0.0	0.0	0.0	0.0	24.9
ID Fan-ID Fan - South	Leq,D	92.3	9	224.53	-58.0	4.7	-5.9	-0.1	-0.07	0.0	0.0	0.0	0.0	33.0
ID Fan-ID Fan - South 2	Leq,D	91.4	7	227.25	-58.1	4.7	-9.6	-0.1	-0.06	0.0	0.0	0.0	0.0	28.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	225.65	-58.1	4.1	-13.0	0.0	-0.06	0.0	0.0	0.0	0.0	26.8
Motor & Pump P 56A/B	Leq,D	93.7		60.63	-46.6	3.0	0.0	-0.7	-1.09	0.0	0.1	0.0	0.0	48.3
Motor & Pump P 120/121	Leq,D	96.2	2	101.84	-51.2	4.0	-20.9	-0.4	-1.10	0.0	2.4	0.0	0.0	29.1
Motor & Pump P 211/212	Leq,D	93.7		31.43	-40.9	3.0	-5.9	-0.2	-0.56	0.0	0.4	0.0	0.0	49.4
Motor & Pump P 215/214	Leq,D	94.6		36.48	-42.2	3.0	0.0	-0.4	-0.58	0.0	0.2	0.0	0.0	54.6
Motor & Pump P 216	Leq,D	98.3		31.94	-41.1	3.0	0.0	-0.4	-0.47	0.0	0.1	0.0	0.0	59.4
Motor & Pump P 217/218	Leq,D	93.7		33.32	-41.4	3.0	-4.1	-0.3	-0.61	0.0	0.3	0.0	0.0	50.5
Motor & Pump P 300	Leq,D	97.1	2	103.70	-51.3	4.2	-1.9	-0.7	-1.01	0.0	0.0	0.0	0.0	46.4
Motor & Pump P 301	Leq,D	102.1	2	102.00	-51.2	4.1	-1.9	-0.7	-1.01	0.0	0.0	0.0	0.0	51.5
Motor & Pump P 302	Leq,D	97.1	2	105.50	-51.5	4.2	-1.9	-0.8	-1.01	0.0	0.0	0.0	0.0	46.2
Motor & Pump P 303	Leq,D	97.1	2	107.00	-51.6	4.1	-1.7	-0.8	-1.01	0.0	0.0	0.0	0.0	46.2
Motor & Pump P 305	Leq,D	97.5	2	108.50	-51.7	4.1	-1.7	-0.8	-1.01	0.0	0.0	0.0	0.0	46.5
Motor & Pump P 306	Leq,D	112.6	4	117.64	-52.4	4.0	-2.1	-1.5	-1.06	0.0	0.8	0.0	0.0	60.3
Motor & Pump P 307	Leq,D	102.1	2	97.10	-50.7	4.0	-1.8	-0.7	-1.01	0.0	0.0	0.0	0.0	51.9
Motor & Pump P 309	Leq,D	97.5	2	110.00	-51.8	4.2	-1.7	-0.8	-1.01	0.0	0.0	0.0	0.0	46.4
Motor & Pump P 312	Leq,D	101.5	2	75.02	-48.5	3.8	-2.5	-0.6	-1.01	0.0	0.0	0.0	0.0	52.8
Motor & Pump P 313	Leq,D	101.5	2	73.23	-48.3	3.8	-2.5	-0.6	-1.01	0.0	0.0	0.0	0.0	52.9
Motor & Pump P 315	Leq,D	102.9	2	66.74	-47.5	3.1	-1.6	-0.5	-1.01	0.0	0.0	0.0	0.0	55.4
Motor & Pump P 316	Leq,D	102.9	2	64.74	-47.2	3.0	-1.6	-0.5	-1.01	0.0	0.0	0.0	0.0	55.7
Motor & Pump P 317	Leq,D	102.9	2	62.74	-46.9	3.0	-1.2	-0.4	-1.01	0.0	0.0	0.0	0.0	56.3
Motor & Pump P 318	Leq,D	100.2	1	68.72	-47.7	3.9	-3.0	-0.6	-1.01	0.0	0.0	0.0	0.0	51.8
Motor & Pump P 319	Leq,D	100.2	1	70.22	-47.9	3.9	-3.0	-0.6	-1.01	0.0	0.0	0.0	0.0	51.6
Motor & Pump P 327	Leq,D	111.2	3	125.64	-53.0	4.4	-14.1	-0.6	-1.07	0.0	0.4	0.0	0.0	47.3
Motor & Pump P 328	Leq,D	109.9	5	111.80	-52.0	3.9	-1.9	-0.7	-1.02	0.0	0.2	0.0	0.0	58.3
Motor & Pump P 329	Leq,D	110.2	5	114.69	-52.2	3.9	-1.8	-0.7	-1.00	0.0	0.3	0.0	0.0	58.8
Motor & Pump P 451	Leq,D	93.7		46.02	-44.3	3.0	-8.3	-0.3	-0.75	0.0	0.3	0.0	0.0	43.3
Motor & Pump P 453	Leq,D	93.7		40.67	-43.2	3.0	0.0	-0.5	-0.53	0.0	0.0	0.0	0.0	52.5
Motor & Pump P 454	Leq,D	93.7		45.34	-44.1	3.0	-7.7	-0.3	-0.78	0.0	0.1	0.0	0.0	43.9
Motor & Pump P 457	Leq,D	93.7		39.86	-43.0	3.0	-3.5	-0.4	-0.53	0.0	0.0	0.0	0.0	49.3
Motor & Pump P 458	Leq,D	93.7		46.81	-44.4	3.0	-8.2	-0.3	-0.74	0.0	0.0	0.0	0.0	43.1
Motor & Pump P 459	Leq,D	93.7		46.10	-44.3	3.0	-7.0	-0.3	-0.79	0.0	0.1	0.0	0.0	44.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		77.44	-48.8	3.3	0.0	-0.8	-0.84	0.0	2.0	0.0	0.0	51.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		78.82	-48.9	3.4	0.0	-0.8	-0.86	0.0	0.5	0.0	0.0	49.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		111.98	-52.0	4.2	-11.1	-0.6	-1.37	0.0	1.3	0.0	0.0	35.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		113.00	-52.1	4.2	-11.1	-0.6	-1.38	0.0	0.9	0.0	0.0	35.5
Motor & Pump P 1601 A	Leq,D	96.3	2	97.25	-50.8	3.2	-14.5	-0.5	-0.66	0.0	0.2	0.0	0.0	33.4
Motor & Pump P 1601 B	Leq,D	96.3	2	98.44	-50.9	3.3	-14.8	-0.5	-0.65	0.0	1.4	0.0	0.0	34.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1602 A	Leq,D	96.3	2	99.21	-50.9	3.3	-14.9	-0.5	-0.65	0.0	1.2	0.0	0.0	33.8
Motor & Pump P 1602 B	Leq,D	96.5	2	100.37	-51.0	3.3	-14.5	-0.5	-0.63	0.0	1.5	0.0	0.0	34.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	83.72	-49.4	3.7	-6.9	-0.5	-0.88	0.0	0.1	0.0	0.0	42.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	87.42	-49.8	3.7	-7.5	-0.6	-0.33	0.0	0.3	0.0	0.0	42.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	89.34	-50.0	3.8	-6.9	-0.7	-0.44	0.0	0.1	0.0	0.0	42.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	80.34	-49.1	3.4	0.0	-0.9	-0.87	0.0	0.2	0.0	0.0	49.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	81.82	-49.2	3.5	0.0	-0.9	-0.89	0.0	0.1	0.0	0.0	49.3
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	97.60	-50.8	4.0	-7.8	-0.6	-0.36	0.0	0.5	0.0	0.0	41.2
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	96.17	-50.7	4.0	-5.7	-0.8	-0.35	0.0	0.1	0.0	0.0	42.9
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	93.67	-50.4	3.9	-0.8	-1.0	-1.05	0.0	0.1	0.0	0.0	47.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	94.74	-50.5	3.9	-4.7	-0.7	-1.13	0.0	0.1	0.0	0.0	43.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	119.87	-52.6	3.5	0.0	-0.9	-1.75	0.0	0.2	0.0	0.0	52.6
P-2 A/B	Leq,D	98.5		388.43	-62.8	5.7	-19.7	-1.2	-0.08	0.0	8.4	0.0	0.0	28.7
P-50 A/B	Leq,D	98.1		346.27	-61.8	5.7	-17.4	-1.0	-2.98	0.0	1.4	0.0	0.0	22.1
P-51 A/B	Leq,D	98.1		347.35	-61.8	5.7	-19.6	-1.2	-0.24	0.0	0.9	0.0	0.0	21.8
P-060 A/B	Leq,D	98.1		343.57	-61.7	5.7	-7.1	-1.3	-2.37	0.0	0.1	0.0	0.0	31.4
P-63	Leq,D	98.5		361.66	-62.2	5.7	-3.3	-1.4	-3.61	0.0	0.0	0.0	0.0	33.7
P-70 A/B	Leq,D	98.1		344.72	-61.7	5.7	-11.4	-1.1	-2.67	0.0	0.2	0.0	0.0	27.1
P-73 A/B	Leq,D	98.5		384.11	-62.7	5.7	-19.5	-1.3	-0.11	0.0	9.4	0.0	0.0	30.0
P-251 A/B	Leq,D	98.2		208.84	-57.4	5.4	0.0	-1.1	-1.05	0.0	0.0	0.0	0.0	44.1
P-252 A/B	Leq,D	98.2		209.02	-57.4	5.4	-7.7	-0.8	-0.72	0.0	0.2	0.0	0.0	37.2
P-253	Leq,D	98.2		216.62	-57.7	5.5	-4.0	-0.8	-0.74	0.0	0.0	0.0	0.0	40.4
P-254 A/B	Leq,D	98.2		219.86	-57.8	5.5	0.0	-1.1	-1.31	0.0	0.1	0.0	0.0	43.5
P-255 A/B	Leq,D	98.2		216.50	-57.7	5.5	0.0	-1.1	-1.23	0.0	0.0	0.0	0.0	43.6
P-255 A/B	Leq,D	98.2		201.77	-57.1	5.4	0.0	-1.0	-0.87	0.0	0.0	0.0	0.0	44.6
P-256 A/B	Leq,D	98.2		212.15	-57.5	5.4	0.0	-1.1	-1.13	0.0	0.0	0.0	0.0	43.9
P-259 A/B	Leq,D	98.2		205.41	-57.2	5.4	0.0	-1.1	-0.97	0.0	0.0	0.0	0.0	44.4
P-260	Leq,D	99.1		189.80	-56.6	5.4	0.0	-1.0	-0.62	0.0	0.0	0.0	0.0	46.3
P-261 A/B	Leq,D	98.0		166.69	-55.4	5.3	0.0	-0.9	-0.11	0.0	0.0	0.0	0.0	46.9
P-262 A/B	Leq,D	99.1		181.42	-56.2	5.4	0.0	-0.9	-0.47	0.0	0.0	0.0	0.0	46.9
P-263 A/B	Leq,D	99.4		185.37	-56.4	5.4	0.0	-1.0	-0.57	0.0	0.0	0.0	0.0	46.9
P-270 A/B	Leq,D	98.5		261.16	-59.3	5.5	-8.9	-0.9	-1.10	0.0	0.0	0.0	0.0	33.8
P-271 A/B	Leq,D	98.2		229.46	-58.2	5.5	0.0	-1.2	-1.41	0.0	0.1	0.0	0.0	43.0
P-272 A/B	Leq,D	98.2		224.80	-58.0	5.5	0.0	-1.1	-1.38	0.0	0.1	0.0	0.0	43.2
P-273 A/B	Leq,D	98.5		257.68	-59.2	5.5	-8.4	-0.9	-1.09	0.0	1.6	0.0	0.0	36.0
P-275 A/B/C	Leq,D	98.2		227.81	-58.1	5.5	-10.4	-0.8	-0.76	0.0	0.0	0.0	0.0	33.6
P-305	Leq,D	99.3		294.01	-60.4	5.6	0.0	-1.4	-0.10	0.0	0.0	0.0	0.0	43.0
P-306	Leq,D	100.8		303.10	-60.6	5.6	0.0	-1.5	-0.34	0.0	0.0	0.0	0.0	44.0
P-309	Leq,D	99.3		296.18	-60.4	5.6	0.0	-1.4	-0.16	0.0	0.0	0.0	0.0	42.9
P-328	Leq,D	100.8		308.49	-60.8	5.6	-4.8	-1.5	-0.50	0.0	0.5	0.0	0.0	39.3
P-329	Leq,D	100.8		305.81	-60.7	5.6	-4.8	-1.5	-0.41	0.0	0.0	0.0	0.0	39.1
P-353	Leq,D	98.5		290.41	-60.3	5.3	-3.6	-1.8	-0.76	0.0	0.1	0.0	0.0	37.5
P-358 A/B	Leq,D	99.4		301.18	-60.6	5.6	-2.0	-1.3	-2.41	0.0	0.1	0.0	0.0	38.8
P-359 A/B	Leq,D	99.4		302.66	-60.6	5.6	-9.4	-1.0	-2.70	0.0	5.3	0.0	0.0	36.6
P-360 A/B	Leq,D	99.4		305.62	-60.7	5.6	-5.3	-1.1	-2.81	0.0	2.1	0.0	0.0	37.2
P-361A	Leq,D	98.1		338.59	-61.6	5.4	-8.3	-1.0	-0.21	0.0	2.2	0.0	0.0	34.6
P-371 A/B	Leq,D	98.0		96.09	-50.6	3.8	-10.6	-0.3	-0.29	0.0	0.6	0.0	0.0	40.6
P-373 A/B	Leq,D	98.0		115.21	-52.2	4.2	-18.2	-0.4	-0.24	0.0	2.4	0.0	0.0	33.5
P-374 A/B	Leq,D	98.0		111.44	-51.9	4.1	-18.2	-0.3	-0.25	0.0	2.4	0.0	0.0	33.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-375 A/B	Leq,D	98.0		102.91	-51.2	4.0	-17.8	-0.3	-0.29	0.0	1.2	0.0	0.0	33.6
P-376	Leq,D	98.0		108.99	-51.7	4.1	-18.2	-0.3	-0.26	0.0	2.6	0.0	0.0	34.2
P-376 A/B	Leq,D	98.0		119.31	-52.5	4.3	-18.2	-0.4	-0.23	0.0	3.7	0.0	0.0	34.7
P-377	Leq,D	98.0		106.80	-51.6	4.1	-18.1	-0.3	-0.27	0.0	3.2	0.0	0.0	35.0
P-1101 A	Leq,D	98.9		374.27	-62.5	5.4	-10.4	-1.2	-2.86	0.0	0.4	0.0	0.0	27.9
P-1103	Leq,D	98.9		372.83	-62.4	5.4	-10.2	-1.2	-2.87	0.0	0.3	0.0	0.0	28.0
P-1105 A/B/C	Leq,D	98.9		379.66	-62.6	5.5	-11.3	-1.1	-2.78	0.0	0.5	0.0	0.0	27.1
P-1800	Leq,D	98.9		416.75	-63.4	5.7	-12.2	-1.3	-3.79	0.0	5.7	0.0	0.0	29.6
P-1801	Leq,D	98.9		462.74	-64.3	5.7	-24.7	-2.0		0.0	2.1	0.0	0.0	15.8
P-1802	Leq,D	98.9		461.93	-64.3	5.7	-24.9	-2.1		0.0	13.3	0.0	0.0	26.6
P-1803	Leq,D	99.1		347.59	-61.8	5.7	-13.5	-1.1		0.0	3.7	0.0	0.0	32.0
P-1804	Leq,D	99.1		363.12	-62.2	5.7	-11.2	-1.2	-0.31	0.0	4.0	0.0	0.0	33.8
P-1805	Leq,D	99.1		366.24	-62.3	5.7	-11.2	-1.2	-0.31	0.0	4.0	0.0	0.0	33.8
P-1806	Leq,D	99.1		323.61	-61.2	5.6	-11.8	-0.9		0.0	4.2	0.0	0.0	34.9
P-1809 A	Leq,D	98.9		426.62	-63.6	5.7	-13.1	-1.2	-0.33	0.0	3.5	0.0	0.0	29.9
P-1810 A/B/C	Leq,D	99.0		366.78	-62.3	5.7	-24.7	-1.7		0.0	15.2	0.0	0.0	31.2
P-1811 A/B	Leq,D	99.1		330.42	-61.4	5.6	-11.9	-0.9		0.0	3.0	0.0	0.0	33.5
P-1811 A/B	Leq,D	99.1		370.09	-62.4	5.7	-11.1	-1.2	-0.31	0.0	4.0	0.0	0.0	33.8
P-1847 A/B	Leq,D	99.4		335.83	-61.5	5.6	-14.4	-1.0		0.0	6.6	0.0	0.0	34.8
P-1849 A/B	Leq,D	99.4		342.48	-61.7	5.7	-14.3	-1.0		0.0	6.4	0.0	0.0	34.6
P-1853	Leq,D	99.1		245.50	-58.8	5.5	0.0	-1.2		0.0	0.4	0.0	0.0	45.0
Piping Furnace Tanks	Leq,D	87.1	72	175.53	-55.9	3.0	-7.4	-5.1	-0.35	0.0	0.5	0.0	0.0	21.9
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	161.44	-55.2	3.0	-14.3	-4.2	-0.30	0.0	0.7	0.0	0.0	28.2
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	142.41	-54.1	3.0	-24.1	-1.2	-0.49	0.0	1.9	0.0	0.0	39.6
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	143.87	-54.2	3.1	-24.7	-4.5	-0.41	0.0	1.4	0.0	0.0	35.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	427.33	-63.6	4.3	-22.8	-1.6		0.0	0.8	0.0	0.0	27.7
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	402.80	-63.1	4.2	-18.6	-1.2		0.0	2.5	0.0	0.0	35.0
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	375.96	-62.5	4.1	-9.5	-1.2		0.0	0.2	0.0	0.0	35.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	403.93	-63.1	4.2	-13.5	-1.4		0.0	0.2	0.0	0.0	37.5
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	376.05	-62.5	4.1	-8.3	-1.3		0.0	0.3	0.0	0.0	36.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	380.69	-62.6	4.1	-12.4	-1.2		0.0	0.6	0.0	0.0	32.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	371.46	-62.4	4.1	-7.0	-1.3		0.0	0.7	0.0	0.0	40.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	380.93	-62.6	4.1	-7.0	-1.6		0.0	0.0	0.0	0.0	39.1
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	401.30	-63.1	3.0	-12.6	-1.5		0.0	0.7	0.0	0.0	39.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	159.70	-55.1	3.0	-5.0	-1.8	-0.45	0.0	0.5	0.0	0.0	21.8
PSA Skid Additional Piping w NC	Leq,D	116.6	57	140.05	-53.9	3.0	-24.1	-1.2	-0.49	0.0	1.9	0.0	0.0	41.8
Reformer-Burner Reformer East	Leq,D	97.3	269	196.39	-56.9	3.0	-19.2	-0.9	-0.48	0.0	1.8	0.0	0.0	27.7
Reformer-Burner Reformer North	Leq,D	95.9	192	185.26	-56.3	3.0	-5.3	-1.3	-0.45	0.0	0.2	0.0	0.0	35.8
Reformer-Burner Reformer South	Leq,D	95.8	191	203.32	-57.2	3.0	-22.3	-1.2	-0.42	0.0	2.4	0.0	0.0	23.2
Reformer-Burner Reformer West	Leq,D	97.3	268	191.72	-56.6	3.0	-9.6	-0.8	-0.41	0.0	0.1	0.0	0.0	35.9
RFG A from battery to process	Leq,D	99.4	87	166.78	-55.4	3.0	-14.9	-4.1	-0.29	0.0	2.9	0.0	0.0	30.5
RFG A from battery to process w NC	Leq,D	115.2	42	145.13	-54.2	3.1	-24.4	-4.2	-0.43	0.0	1.9	0.0	0.0	36.9
Stack Noise	Leq,D	108.4		232.55	-58.3	3.0	-2.6	-0.7	-0.28	-5.6	0.0	0.0	0.0	43.8
Steam Turbine-Facade 01	Leq,D	99.6	29	129.05	-53.2	3.8	-5.2	-2.1	-0.43	0.0	0.0	0.0	0.0	42.5
Steam Turbine-Facade 02	Leq,D	96.2	13	133.57	-53.5	3.9	-20.0	-1.7	-0.42	0.0	0.4	0.0	0.0	24.9
Steam Turbine-Facade 03	Leq,D	99.6	29	130.47	-53.3	3.8	-18.3	-1.5	-0.45	0.0	3.6	0.0	0.0	33.5
Steam Turbine-Facade 04	Leq,D	96.2	13	126.14	-53.0	3.8	-6.3	-1.8	-0.45	0.0	0.1	0.0	0.0	38.5
Steam Turbine-Roof 01	Leq,D	99.7	30	129.86	-53.3	3.0	-11.2	-1.8	-0.45	0.0	0.3	0.0	0.0	36.4
Tank Farm Pump 1	Leq,D	99.0	3	325.10	-61.2	5.4	-14.7	-1.2		0.0	4.9	0.0	0.0	32.1

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Tank Farm Pump 2	Leq,D	99.0	3	346.46	-61.8	5.4	-14.8	-1.3		0.0	5.1	0.0	0.0	31.7
Tank Farm Pump 3	Leq,D	99.0	3	352.41	-61.9	5.4	-14.8	-1.3		0.0	5.0	0.0	0.0	31.4
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	48.61	-44.7	3.0	0.0	-0.7		0.0	0.1	-11.8	0.0	58.3
XF-1502 Splitter Area 1	Leq,D	104.5		92.39	-50.3	3.0	-6.6	-0.5	-0.10	-3.8	0.5	0.0	0.0	46.7
XF-1502 Splitter Area 2	Leq,D	104.5		89.49	-50.0	3.0	-10.2	-0.4	-0.09	-3.3	0.7	0.0	0.0	44.2
XF-1504 Splitter Area 1	Leq,D	104.5		95.18	-50.6	3.0	-3.4	-0.6	-1.09	-3.9	0.3	0.0	0.0	48.2
XF-1504 Splitter Area 2	Leq,D	104.5		92.36	-50.3	3.0	-3.8	-0.5	-0.97	-3.9	0.4	0.0	0.0	48.5
XF 251, 250, 271, 270	Leq,D	101.1	128	228.13	-58.2	3.0	-1.4	-0.8	-0.81	-2.7	0.6	0.0	0.0	40.8
XF 260, 261A, 261 B	Leq,D	99.9	97	178.47	-56.0	3.0	0.0	-0.7	-0.31	-2.9	0.0	0.0	0.0	42.9
XF 304, XF 321	Leq,D	110.5	56	101.51	-51.1	3.0	-0.2	-0.5	-1.50	-2.8	0.1	0.0	0.0	57.5
XF 313, XF 314	Leq,D	113.0	18	132.02	-53.4	3.0	-1.6	-0.7	-1.86	-4.0	0.1	0.0	0.0	54.5
XF 335-1, XF 335-2	Leq,D	113.4	54	113.71	-52.1	3.0	-5.3	-0.4	-1.59	-2.6	0.3	0.0	0.0	54.7
XF 353A/B	Leq,D	95.4	35	310.68	-60.8	3.3	-0.1	-1.1	-0.96	-3.0	0.9	0.0	0.0	33.7
XF 353A/B	Leq,D	95.4	35	292.62	-60.3	3.1	-2.7	-0.9	-0.34	-2.5	1.3	0.0	0.0	33.2
XF 354A/B	Leq,D	95.4	35	291.25	-60.3	3.1	0.0	-1.0	-0.09	-2.9	0.0	0.0	0.0	34.3
XF 503	Leq,D	113.0	21	51.12	-45.2	3.0	0.0	-1.0	-0.91	-3.6	0.1	0.0	0.0	65.5
XF - 1601	Leq,D	96.6		99.08	-50.9	3.0	-3.0	-0.3	-0.60	-2.1	0.1	0.0	0.0	42.9
XF - 1602	Leq,D	96.6		103.72	-51.3	3.0	0.0	-0.4	-0.62	-2.5	0.1	0.0	0.0	44.9
XF Module 1510	Leq,D	108.3		82.81	-49.4	3.0	-7.2	-0.4	-0.12	-3.7	0.4	0.0	0.0	51.0
XF Module 1519	Leq,D	109.0		87.06	-49.8	3.0	0.0	-0.7	-0.91	-4.2	0.1	0.0	0.0	56.5
xxxx xxxx xxxx xxxx	Leq,D		228								9.4			21.7
xxxx xxxx xxxx xxxx	Leq,D		520								13.3			27.4
xxxx xxxx xxxx xxxx	Leq,D		1341								13.1			38.3
xxxx xxxx xxxx xxxx	Leq,D		450								6.6			26.3
Receiver S-10 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.0 dB(A) Ld 7-19 dB(A) Leq,N 69.0 dB(A) Le 19-22 dB(A) CNEL 76.0 dB(A) Lmax day hr dB(A) L(														
ID Fan Motor	Leq,D	104.4	2	293.87	-60.4	5.0	-22.0	-1.8		0.0	0.2	0.0	0.0	25.5
18-1855 A/B	Leq,D	98.8		296.80	-60.4	5.4	-12.9	-0.9	-0.88	0.0	1.1	0.0	0.0	30.1
18-1856 A/B	Leq,D	98.8		303.67	-60.6	5.4	-16.4	-0.9	-0.88	0.0	2.3	0.0	0.0	27.8
18-1857 A/B	Leq,D	98.8		290.16	-60.2	5.3	-13.1	-0.9	-0.88	0.0	1.0	0.0	0.0	30.0
18-1858 A/B	Leq,D	98.8		285.58	-60.1	5.1	-13.0	-0.8	-0.88	0.0	1.2	0.0	0.0	30.3
18-PK 1802 Air Compressor Package	Leq,D	103.1		313.77	-60.9	5.6	-13.0	-0.5		0.0	1.3	0.0	0.0	35.7
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	57.68	-46.2	3.1	-0.1	-0.8		0.0	0.8	-2.7	0.0	63.1
Air Compressor C 1	Leq,D	110.0	5	107.97	-51.7	4.4	-14.6	-0.2	-0.51	0.0	2.8	0.0	0.0	50.2
Air Compressor Pump	Leq,D	100.3		227.50	-58.1	5.0	-4.5	-1.9	-0.86	0.0	0.1	0.0	0.0	39.9
Blower F 401	Leq,D	113.0		107.58	-51.6	3.4	-3.7	-0.2	-0.70	0.0	0.1	0.0	0.0	60.3
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	412.41	-63.3	5.4	-11.2	-1.0		0.0	2.1	0.0	0.0	30.5
Boiler Feed Water Pump A	Leq,D	97.1	3	299.10	-60.5	5.2	-12.4	-1.0	-0.74	0.0	2.2	0.0	0.0	30.0
Boiler Feed Water Pump B	Leq,D	97.1	3	299.73	-60.5	5.2	-11.2	-1.0	-0.75	0.0	1.8	0.0	0.0	30.7
C370 A Motor	Leq,D	103.6	3	217.35	-57.7	4.0	-7.6	-0.9	-0.69	0.0	0.6	0.0	0.0	41.2
C370 B Motor	Leq,D	108.6	3	227.84	-58.1	4.1	-6.9	-1.0	-0.69	0.0	0.6	0.0	0.0	46.6
C370A	Leq,D	103.8	5	216.92	-57.7	4.1	-7.4	-0.9	-0.68	0.0	0.4	0.0	0.0	41.7
C370B	Leq,D	103.8	5	227.43	-58.1	4.2	-8.9	-0.8	-0.67	0.0	0.6	0.0	0.0	40.1
C-270 A	Leq,D	106.3	6	359.77	-62.1	4.9	-3.8	-2.0	-2.54	0.0	0.1	0.0	0.0	40.8
C-270 B	Leq,D	106.3	6	355.25	-62.0	4.9	-4.2	-1.9	-2.50	0.0	0.0	0.0	0.0	40.6
C-270 C	Leq,D	106.3	6	350.79	-61.9	4.9	-6.2	-1.8	-2.48	0.0	0.0	0.0	0.0	38.8
C-301 Compressor	Leq,D	106.8	3	366.24	-62.3	4.9	-7.5	-1.3	-1.29	0.0	0.9	0.0	0.0	40.3
C-301 Motor	Leq,D	106.8	4	362.62	-62.2	4.9	-9.2	-1.8	-1.49	0.0	1.1	0.0	0.0	38.2
C-351 Compressor	Leq,D	106.8	4	375.07	-62.5	5.0	-3.9	-2.0	-2.34	0.0	0.0	0.0	0.0	41.1
C-351 Motor	Leq,D	106.8	5	376.76	-62.5	4.7	-4.3	-3.0	-2.73	0.0	0.0	0.0	0.0	39.0
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	37.56	-42.5	3.1	-0.2	-0.1		0.0	0.7	-33.5	0.0	62.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	67.80	-47.6	3.0	-19.1	-0.2		-7.8	0.5	0.0	0.0	33.6
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	71.64	-48.1	3.1	-17.6	-0.3		0.0	0.4	0.0	0.0	38.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	58.69	-46.4	3.0	-5.9	-0.2		-0.7	0.6	0.0	0.0	56.9
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	57.48	-46.2	3.0	-17.1	-0.2		-2.7	0.3	0.0	0.0	47.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	69.64	-47.8	3.0	-18.1	-0.2		-0.6	0.2	0.0	0.0	40.3
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	48.24	-44.7	3.0	-5.9	-0.4		-0.6	1.0	0.0	0.0	52.9
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	140.75	-54.0	3.7	-18.2	-0.4	-0.70	-7.8	9.4	0.0	0.0	29.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	128.34	-53.2	3.5	-10.7	-0.3	-0.71	-0.7	2.1	0.0	0.0	37.8
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	165.51	-55.4	3.6	-18.7	-0.5	-0.70	-7.8	1.3	0.0	0.0	22.4
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	147.52	-54.4	3.6	-11.0	-0.5	-0.70	-0.7	0.7	0.0	0.0	37.7
Cooling Tower M 512	Leq,D	95.7		134.67	-53.6	4.3	-16.3	-0.5		0.0	1.2	0.0	0.0	30.8
Cooling Tower M 513	Leq,D	95.7		133.24	-53.5	4.2	-16.3	-0.5		0.0	1.4	0.0	0.0	31.0
Cooling Tower M 514	Leq,D	95.7		136.19	-53.7	4.3	-16.2	-0.5		0.0	1.8	0.0	0.0	31.4
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	287.42	-60.2	3.4	-8.3	-0.6	-0.42	-2.0	0.4	0.0	0.0	28.1
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	282.41	-60.0	4.8	-13.0	-0.1	-0.14	0.0	0.0	0.0	0.0	26.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	281.30	-60.0	4.8	-7.7	-0.1	-0.22	0.0	0.0	0.0	0.0	29.9
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	281.13	-60.0	4.1	-14.6	-0.1	-0.01	0.0	0.0	0.0	0.0	22.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	280.92	-60.0	4.7	-10.6	-0.1	-0.06	0.0	0.0	0.0	0.0	27.2
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	279.82	-59.9	4.7	-8.2	-0.1	-0.01	0.0	0.0	0.0	0.0	31.8
FD Motor	Leq,D	103.3	2	283.57	-60.0	5.0	-21.4	-1.9	-0.85	0.0	0.6	0.0	0.0	24.6
Feed Compressor -B Motor	Leq,D	103.8	5	260.94	-59.3	4.3	-8.7	-1.7	-0.80	0.0	0.7	0.0	0.0	38.3
Feed Compressor-A Compressor	Leq,D	104.0	5	246.04	-58.8	4.4	-12.4	-0.9	-0.72	0.0	0.5	0.0	0.0	36.2
Feed Compressor-A Motor	Leq,D	103.8	6	246.97	-58.8	4.3	-12.1	-1.4	-0.86	0.0	0.9	0.0	0.0	35.7
Feed Compressor-B Compressor	Leq,D	104.0	7	260.06	-59.3	4.5	-11.5	-1.0	-0.69	0.0	1.1	0.0	0.0	37.1
H2S Compressor 18-C-271	Leq,D	105.3	6	91.87	-50.3	3.0	-6.0	-0.5	-0.40	0.0	0.2	0.0	0.0	51.4
Heater # 5-Heater	Leq,D	91.1	13	409.09	-63.2	5.4	-19.1	-0.9	-0.02	0.0	0.2	0.0	0.0	16.4
Heater # 5-Heater	Leq,D	91.1	13	404.58	-63.1	5.4	-18.1	-0.9		0.0	0.1	0.0	0.0	17.5
Heater # 5-Heater	Leq,D	91.1	13	413.50	-63.3	5.4	-19.2	-0.9	-0.17	0.0	0.4	0.0	0.0	16.3
Hydro Heater H-402	Leq,D	98.1		107.75	-51.6	3.9	-11.3	-0.2	-0.79	0.0	0.6	0.0	0.0	38.6
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	294.85	-60.4	5.0	-14.8	-0.1		0.0	0.0	0.0	0.0	16.8
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	294.78	-60.4	5.0	-13.9	-0.1		0.0	0.0	0.0	0.0	17.9
ID Fan-ID Fan - North	Leq,D	92.2	8	293.46	-60.3	5.0	-14.4	-0.1		0.0	0.0	0.0	0.0	22.4
ID Fan-ID Fan - North 2	Leq,D	91.4	7	295.97	-60.4	5.0	-14.6	-0.1		0.0	0.0	0.0	0.0	21.3
ID Fan-ID Fan - South	Leq,D	92.3	9	293.31	-60.3	5.0	-13.3	-0.1		0.0	0.0	0.0	0.0	23.6
ID Fan-ID Fan - South 2	Leq,D	91.4	7	295.93	-60.4	5.0	-13.5	-0.1		0.0	0.0	0.0	0.0	22.4
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	294.09	-60.4	4.5	-15.9	-0.1		0.0	0.0	0.0	0.0	22.2
Motor & Pump P 56A/B	Leq,D	93.7		99.56	-51.0	3.7	0.0	-1.0	-0.54	0.0	0.5	0.0	0.0	45.3
Motor & Pump P 120/121	Leq,D	96.2	2	101.08	-51.1	4.0	-14.0	-0.3	-0.48	0.0	0.1	0.0	0.0	34.4
Motor & Pump P 211/212	Leq,D	93.7		81.88	-49.3	3.5	-2.8	-0.7	-0.25	0.0	0.7	0.0	0.0	44.9
Motor & Pump P 215/214	Leq,D	94.6		80.57	-49.1	3.6	-8.3	-0.5	-0.14	0.0	1.0	0.0	0.0	41.1
Motor & Pump P 216	Leq,D	98.3		75.32	-48.5	3.0	-2.3	-0.7	-0.11	0.0	0.7	0.0	0.0	50.4
Motor & Pump P 217/218	Leq,D	93.7		81.25	-49.2	4.3	-3.8	-0.6	-0.25	0.0	0.6	0.0	0.0	44.7
Motor & Pump P 300	Leq,D	97.1	2	92.42	-50.3	3.9	-15.7	-0.3	-0.51	0.0	3.2	0.0	0.0	37.4
Motor & Pump P 301	Leq,D	102.1	2	91.43	-50.2	3.9	-15.3	-0.3	-0.51	0.0	2.9	0.0	0.0	42.6
Motor & Pump P 302	Leq,D	97.1	2	93.51	-50.4	4.0	-16.3	-0.3	-0.52	0.0	3.6	0.0	0.0	37.1
Motor & Pump P 303	Leq,D	97.1	2	94.34	-50.5	3.8	-13.9	-0.3	-0.53	0.0	1.7	0.0	0.0	37.4
Motor & Pump P 305	Leq,D	97.5	2	95.28	-50.6	3.9	-12.1	-0.3	-0.53	0.0	0.5	0.0	0.0	38.4
Motor & Pump P 306	Leq,D	112.6	4	101.33	-51.1	3.6	-18.4	-0.5	-0.24	0.0	6.1	0.0	0.0	52.2
Motor & Pump P 307	Leq,D	102.1	2	88.66	-49.9	3.8	-10.6	-0.3	-0.49	0.0	0.1	0.0	0.0	44.7
Motor & Pump P 309	Leq,D	97.5	2	96.22	-50.7	3.9	-12.2	-0.3	-0.54	0.0	0.5	0.0	0.0	38.2
Motor & Pump P 312	Leq,D	101.5	2	78.89	-48.9	3.9	-7.8	-0.4	-0.43	0.0	0.2	0.0	0.0	48.1
Motor & Pump P 313	Leq,D	101.5	2	78.31	-48.9	3.9	-4.3	-0.3	-0.43	0.0	0.1	0.0	0.0	51.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 315	Leq,D	102.9	2	76.28	-48.6	3.5	0.0	-0.4	-0.39	0.0	0.0	0.0	0.0	56.9
Motor & Pump P 316	Leq,D	102.9	2	75.84	-48.6	3.5	0.0	-0.4	-0.24	0.0	0.0	0.0	0.0	57.1
Motor & Pump P 317	Leq,D	102.9	2	75.54	-48.6	3.3	0.0	-0.4	-0.05	0.0	0.0	0.0	0.0	57.1
Motor & Pump P 318	Leq,D	100.2	1	77.27	-48.8	4.1	0.0	-0.4	-0.41	0.0	0.0	0.0	0.0	54.7
Motor & Pump P 319	Leq,D	100.2	1	77.67	-48.8	4.1	-1.9	-0.6	-0.40	0.0	0.1	0.0	0.0	52.6
Motor & Pump P 327	Leq,D	111.2	3	106.46	-51.5	4.1	-16.4	-0.5	-0.57	0.0	5.3	0.0	0.0	51.7
Motor & Pump P 328	Leq,D	109.9	5	97.48	-50.8	3.5	-12.9	-0.3	-0.49	0.0	2.1	0.0	0.0	51.2
Motor & Pump P 329	Leq,D	110.2	5	99.38	-50.9	3.6	-17.6	-0.4	-0.20	0.0	5.9	0.0	0.0	50.5
Motor & Pump P 451	Leq,D	93.7		109.65	-51.8	3.9	-11.6	-0.5	-0.72	0.0	1.7	0.0	0.0	34.6
Motor & Pump P 453	Leq,D	93.7		114.63	-52.2	4.0	-13.2	-0.6	-0.84	0.0	0.3	0.0	0.0	31.1
Motor & Pump P 454	Leq,D	93.7		108.12	-51.7	3.9	-11.8	-0.5	-0.72	0.0	2.3	0.0	0.0	35.1
Motor & Pump P 457	Leq,D	93.7		115.00	-52.2	4.0	-8.2	-0.7	-0.84	0.0	1.0	0.0	0.0	36.8
Motor & Pump P 458	Leq,D	93.7		110.79	-51.9	3.9	-11.7	-0.6	-0.72	0.0	1.7	0.0	0.0	34.4
Motor & Pump P 459	Leq,D	93.7		107.99	-51.7	3.9	-12.5	-0.5	-0.72	0.0	2.7	0.0	0.0	34.8
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		123.65	-52.8	4.3	-10.1	-0.6	-0.22	0.0	0.0	0.0	0.0	36.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		123.85	-52.8	4.3	-5.8	-0.9	-0.21	0.0	0.7	0.0	0.0	41.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		140.69	-54.0	4.6	-8.8	-0.9	-0.77	0.0	0.0	0.0	0.0	35.6
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		141.10	-54.0	4.6	-10.5	-0.8	-0.78	0.0	0.1	0.0	0.0	34.1
Motor & Pump P 1601 A	Leq,D	96.3	2	151.87	-54.6	4.2	-8.9	-0.8	-0.05	0.0	5.0	0.0	0.0	41.2
Motor & Pump P 1601 B	Leq,D	96.3	2	153.41	-54.7	4.2	-8.4	-0.9		0.0	4.8	0.0	0.0	41.4
Motor & Pump P 1602 A	Leq,D	96.3	2	154.55	-54.8	4.3	-7.3	-1.0		0.0	4.2	0.0	0.0	41.7
Motor & Pump P 1602 B	Leq,D	96.5	2	156.05	-54.9	4.3	-6.8	-1.1		0.0	4.0	0.0	0.0	42.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	132.97	-53.5	4.5	-6.6	-0.7	-0.34	0.0	2.0	0.0	0.0	42.0
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	133.52	-53.5	4.5	-2.5	-1.0	-0.33	0.0	0.7	0.0	0.0	44.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	133.89	-53.5	4.5	0.0	-1.3	-0.32	0.0	0.1	0.0	0.0	46.0
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	124.60	-52.9	4.3	-2.9	-0.9	-0.21	0.0	0.4	0.0	0.0	44.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	124.85	-52.9	4.3	-0.4	-1.2	-0.21	0.0	0.2	0.0	0.0	46.5
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	141.50	-54.0	4.6	0.0	-1.4	-0.57	0.0	0.1	0.0	0.0	45.1
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	139.24	-53.9	4.6	0.0	-1.4	-0.55	0.0	0.4	0.0	0.0	45.5
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	135.28	-53.6	4.5	0.0	-1.3	-0.50	0.0	0.9	0.0	0.0	46.3
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	137.03	-53.7	4.6	0.0	-1.3	-0.52	0.0	0.8	0.0	0.0	46.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	129.69	-53.3	3.7	-18.2	-0.5	-0.57	0.0	1.3	0.0	0.0	36.6
P-2 A/B	Leq,D	98.5		477.47	-64.6	5.8	-20.9	-1.6	-0.91	0.0	2.3	0.0	0.0	18.6
P-50 A/B	Leq,D	98.1		434.76	-63.8	5.7	-13.5	-1.3	-3.22	0.0	0.0	0.0	0.0	22.0
P-51 A/B	Leq,D	98.1		436.07	-63.8	5.7	-22.8	-1.7	-1.12	0.0	0.0	0.0	0.0	14.5
P-060 A/B	Leq,D	98.1		431.44	-63.7	5.7	-9.8	-1.4	-2.48	0.0	0.0	0.0	0.0	26.4
P-63	Leq,D	98.5		451.55	-64.1	5.7	-5.9	-1.7	-4.52	0.0	2.1	0.0	0.0	30.2
P-70 A/B	Leq,D	98.1		432.87	-63.7	5.7	-9.6	-1.4	-2.90	0.0	0.0	0.0	0.0	26.2
P-73 A/B	Leq,D	98.5		473.22	-64.5	5.8	-20.7	-1.6	-0.91	0.0	7.8	0.0	0.0	24.3
P-251 A/B	Leq,D	98.2		298.77	-60.5	5.6	-4.6	-1.1	-1.96	0.0	0.0	0.0	0.0	35.6
P-252 A/B	Leq,D	98.2		298.11	-60.5	5.6	-10.1	-1.0	-1.48	0.0	1.1	0.0	0.0	31.8
P-253	Leq,D	98.2		305.50	-60.7	5.6	-7.8	-1.0	-1.49	0.0	0.7	0.0	0.0	33.5
P-254 A/B	Leq,D	98.2		309.50	-60.8	5.6	-5.6	-1.1	-2.07	0.0	0.0	0.0	0.0	34.2
P-255 A/B	Leq,D	98.2		306.23	-60.7	5.6	-7.3	-1.1	-2.07	0.0	0.0	0.0	0.0	32.7
P-255 A/B	Leq,D	98.2		291.87	-60.3	5.6	-5.2	-1.0	-1.73	0.0	0.0	0.0	0.0	35.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		302.00	-60.6	5.6	-3.5	-1.2	-2.00	0.0	0.0	0.0	0.0	36.5
P-259 A/B	Leq,D	98.2		295.42	-60.4	5.6	-5.1	-1.1	-1.84	0.0	0.0	0.0	0.0	35.4
P-260	Leq,D	99.1		279.41	-59.9	5.6	-8.7	-1.0	-1.44	0.0	1.2	0.0	0.0	34.9
P-261 A/B	Leq,D	98.0		256.97	-59.2	5.5	-6.6	-0.9	-0.83	0.0	0.6	0.0	0.0	36.7
P-262 A/B	Leq,D	99.1		271.26	-59.7	5.6	-5.3	-1.0	-1.35	0.0	0.6	0.0	0.0	37.9
P-263 A/B	Leq,D	99.4		275.09	-59.8	5.6	-9.2	-0.9	-1.41	0.0	1.3	0.0	0.0	35.0
P-270 A/B	Leq,D	98.5		349.63	-61.9	5.7	-13.4	-1.0	-1.68	0.0	0.0	0.0	0.0	26.2
P-271 A/B	Leq,D	98.2		318.86	-61.1	5.6	-3.9	-1.3	-2.08	0.0	0.0	0.0	0.0	35.5
P-272 A/B	Leq,D	98.2		314.31	-60.9	5.6	-3.6	-1.3	-2.06	0.0	0.0	0.0	0.0	36.0
P-273 A/B	Leq,D	98.5		346.25	-61.8	5.7	-7.8	-1.3	-1.64	0.0	0.0	0.0	0.0	31.7
P-275 A/B/C	Leq,D	98.2		316.36	-61.0	5.6	-9.7	-1.1	-1.48	0.0	1.0	0.0	0.0	31.6
P-305	Leq,D	99.3		384.97	-62.7	5.7	-7.4	-1.3	-0.63	0.0	0.0	0.0	0.0	33.0
P-306	Leq,D	100.8		393.94	-62.9	5.7	-4.8	-1.8	-1.13	0.0	0.0	0.0	0.0	35.9
P-309	Leq,D	99.3		387.11	-62.7	5.7	-7.4	-1.3	-0.75	0.0	0.0	0.0	0.0	32.8
P-328	Leq,D	100.8		399.26	-63.0	5.7	-5.0	-1.7	-1.50	0.0	0.0	0.0	0.0	35.2
P-329	Leq,D	100.8		396.62	-63.0	5.7	-5.0	-1.7	-1.33	0.0	0.0	0.0	0.0	35.4
P-353	Leq,D	98.5		380.92	-62.6	5.5	-4.1	-1.5	-1.91	0.0	1.0	0.0	0.0	34.9
P-358 A/B	Leq,D	99.4		390.18	-62.8	5.7	-4.5	-1.5	-2.84	0.0	0.0	0.0	0.0	33.5
P-359 A/B	Leq,D	99.4		391.93	-62.9	5.7	-15.3	-1.1	-3.14	0.0	0.0	0.0	0.0	22.7
P-360 A/B	Leq,D	99.4		395.37	-62.9	5.7	-10.9	-1.2	-3.55	0.0	4.2	0.0	0.0	30.6
P-361A	Leq,D	98.1		425.00	-63.6	5.5	-13.2	-1.1	-0.21	0.0	1.5	0.0	0.0	27.0
P-371 A/B	Leq,D	98.0		173.32	-55.8	4.8	-2.9	-0.7	-0.75	0.0	0.0	0.0	0.0	42.7
P-373 A/B	Leq,D	98.0		192.24	-56.7	4.9	-7.3	-0.7	-0.74	0.0	0.1	0.0	0.0	37.7
P-374 A/B	Leq,D	98.0		188.43	-56.5	4.9	-7.2	-0.7	-0.74	0.0	0.0	0.0	0.0	37.9
P-375 A/B	Leq,D	98.0		179.76	-56.1	4.8	-6.8	-0.6	-0.74	0.0	0.2	0.0	0.0	38.8
P-376	Leq,D	98.0		185.98	-56.4	4.9	-7.0	-0.7	-0.74	0.0	0.1	0.0	0.0	38.2
P-376 A/B	Leq,D	98.0		196.33	-56.9	4.9	-7.5	-0.7	-0.74	0.0	0.4	0.0	0.0	37.6
P-377	Leq,D	98.0		183.73	-56.3	4.9	-7.0	-0.6	-0.74	0.0	0.1	0.0	0.0	38.3
P-1101 A	Leq,D	98.9		462.48	-64.3	5.6	-6.7	-1.5	-2.99	0.0	0.0	0.0	0.0	28.9
P-1103	Leq,D	98.9		461.05	-64.3	5.6	-6.7	-1.5	-3.01	0.0	0.0	0.0	0.0	29.0
P-1105 A/B/C	Leq,D	98.9		467.77	-64.4	5.6	-12.2	-1.4	-1.22	0.0	0.0	0.0	0.0	25.3
P-1800	Leq,D	98.9		506.41	-65.1	5.8	-8.2	-1.7	-4.29	0.0	1.7	0.0	0.0	27.1
P-1801	Leq,D	98.9		551.59	-65.8	5.8	-24.7	-2.3	-0.88	0.0	13.3	0.0	0.0	24.2
P-1802	Leq,D	98.9		550.68	-65.8	5.8	-24.9	-2.4	-0.88	0.0	13.5	0.0	0.0	24.2
P-1803	Leq,D	99.1		432.91	-63.7	5.7	-11.1	-1.4	-0.88	0.0	0.3	0.0	0.0	28.1
P-1804	Leq,D	99.1		449.44	-64.0	5.7	-19.9	-1.2	-0.32	0.0	0.3	0.0	0.0	19.7
P-1805	Leq,D	99.1		452.50	-64.1	5.7	-19.5	-1.3	-0.32	0.0	0.2	0.0	0.0	19.8
P-1806	Leq,D	99.1		409.33	-63.2	5.7	-8.3	-1.3	-0.88	0.0	1.9	0.0	0.0	33.0
P-1809 A	Leq,D	98.9		515.92	-65.2	5.8	-16.5	-1.5	-0.92	0.0	9.1	0.0	0.0	29.6
P-1810 A/B/C	Leq,D	99.0		452.11	-64.1	5.7	-24.8	-2.0	-0.85	0.0	6.7	0.0	0.0	19.8
P-1811 A/B	Leq,D	99.1		416.04	-63.4	5.7	-8.0	-1.3	-0.88	0.0	1.2	0.0	0.0	32.5
P-1811 A/B	Leq,D	99.1		456.30	-64.2	5.7	-19.2	-1.3	-0.32	0.0	1.1	0.0	0.0	20.9
P-1847 A/B	Leq,D	99.4		414.15	-63.3	5.7	-9.1	-1.3	-0.74	0.0	1.6	0.0	0.0	32.2
P-1849 A/B	Leq,D	99.4		420.78	-63.5	5.7	-9.1	-1.3	-0.74	0.0	1.2	0.0	0.0	31.7
P-1853	Leq,D	99.1		336.67	-61.5	5.6	-4.1	-1.8		0.0	0.8	0.0	0.0	38.1
Piping Furnace Tanks	Leq,D	87.1	72	244.77	-58.8	3.3	-11.6	-4.7	-0.30	0.0	5.6	0.0	0.0	20.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	234.33	-58.4	3.2	-12.1	-4.5	-0.58	0.0	2.4	0.0	0.0	28.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	204.61	-57.2	3.8	-7.6	-1.8	-0.71	0.0	0.1	0.0	0.0	51.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	206.87	-57.3	3.9	-8.4	-5.3	-0.59	0.0	0.1	0.0	0.0	47.4
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	507.46	-65.1	4.6	-22.6	-1.8	-0.74	0.0	3.5	0.0	0.0	28.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	481.76	-64.6	4.5	-6.4	-1.7	-0.73	0.0	0.1	0.0	0.0	42.2
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	455.19	-64.2	4.4	-6.4	-1.6	-0.73	0.0	0.1	0.0	0.0	35.7
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	486.26	-64.7	4.5	-16.4	-1.5	-0.75	0.0	4.7	0.0	0.0	36.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	457.08	-64.2	4.4	-12.5	-1.4	-0.75	0.0	3.7	0.0	0.0	33.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	459.42	-64.2	4.4	-9.3	-1.7	-0.73	0.0	0.5	0.0	0.0	32.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	451.62	-64.1	4.4	-5.9	-1.6	-0.73	0.0	0.7	0.0	0.0	39.4
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	462.64	-64.3	4.4	-9.1	-1.7	-0.74	0.0	0.7	0.0	0.0	35.4
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	481.73	-64.6	3.1	-11.6	-1.5	-0.75	0.0	2.0	0.0	0.0	39.6
PSA Pipe 3" Lagging	Leq,D	80.6	11	223.64	-58.0	3.0	-0.2	-2.1	-0.65	0.0	0.4	0.0	0.0	23.0
PSA Skid Additional Piping w NC	Leq,D	116.6	57	200.97	-57.1	3.8	-8.7	-1.7	-0.72	0.0	0.1	0.0	0.0	52.3
Reformer-Burner Reformer East	Leq,D	97.3	269	261.33	-59.3	3.0	-12.1	-1.0	-0.33	0.0	0.1	0.0	0.0	30.6
Reformer-Burner Reformer North	Leq,D	95.9	192	251.48	-59.0	3.1	-4.0	-1.7	-0.59	0.0	0.8	0.0	0.0	34.5
Reformer-Burner Reformer South	Leq,D	95.8	191	270.60	-59.6	3.1	-21.6	-1.3	-0.33	0.0	2.6	0.0	0.0	21.6
Reformer-Burner Reformer West	Leq,D	97.3	268	260.33	-59.3	3.2	-5.0	-1.3	-0.73	0.0	1.0	0.0	0.0	38.1
RFG A from battery to process	Leq,D	99.4	87	239.52	-58.6	3.3	-11.3	-5.0	-0.58	0.0	2.2	0.0	0.0	29.4
RFG A from battery to process w NC	Leq,D	115.2	42	207.15	-57.3	3.9	-10.2	-5.8	-0.66	0.0	0.5	0.0	0.0	45.6
Stack Noise	Leq,D	108.4		300.69	-60.6	3.0	-9.0	-0.4		-4.9	0.4	0.0	0.0	37.1
Steam Turbine-Facade 01	Leq,D	99.6	29	197.56	-56.9	4.5	-21.4	-2.3	-0.68	0.0	3.3	0.0	0.0	26.1
Steam Turbine-Facade 02	Leq,D	96.2	13	201.65	-57.1	4.6	-21.2	-2.4	-0.68	0.0	0.7	0.0	0.0	20.2
Steam Turbine-Facade 03	Leq,D	99.6	29	197.57	-56.9	4.5	-16.5	-2.0	-0.70	0.0	4.3	0.0	0.0	32.3
Steam Turbine-Facade 04	Leq,D	96.2	13	193.63	-56.7	4.5	-16.7	-1.8	-0.70	0.0	2.6	0.0	0.0	27.4
Steam Turbine-Roof 01	Leq,D	99.7	30	197.63	-56.9	3.7	-20.4	-1.7	-0.69	0.0	5.5	0.0	0.0	29.2
Tank Farm Pump 1	Leq,D	99.0	3	400.48	-63.0	5.5	-11.6	-1.7	-0.71	0.0	3.0	0.0	0.0	30.4
Tank Farm Pump 2	Leq,D	99.0	3	421.95	-63.5	5.5	-11.2	-1.8	-0.72	0.0	2.6	0.0	0.0	29.9
Tank Farm Pump 3	Leq,D	99.0	3	427.95	-63.6	5.5	-11.2	-1.9	-0.72	0.0	3.1	0.0	0.0	30.2
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	47.39	-44.5	3.0	0.0	-0.7		0.0	0.8	-11.8	0.0	59.2
XF-1502 Splitter Area 1	Leq,D	104.5		136.68	-53.7	3.0	0.0	-1.0	-0.37	-4.2	0.1	0.0	0.0	48.4
XF-1502 Splitter Area 2	Leq,D	104.5		136.08	-53.7	3.0	0.0	-1.0	-0.37	-4.3	0.2	0.0	0.0	48.3
XF-1504 Splitter Area 1	Leq,D	104.5		141.01	-54.0	3.0	0.0	-1.1	-0.46	-4.2	0.0	0.0	0.0	47.9
XF-1504 Splitter Area 2	Leq,D	104.5		140.44	-53.9	3.0	0.0	-1.1	-0.46	-4.3	0.2	0.0	0.0	47.9
XF 251, 250, 271, 270	Leq,D	101.1	128	317.22	-61.0	3.4	-1.0	-1.0	-0.84	-2.7	0.1	0.0	0.0	38.0
XF 260, 261A, 261 B	Leq,D	99.9	97	268.76	-59.6	3.0	-2.6	-0.8	-0.70	-2.5	0.2	0.0	0.0	36.8
XF 304, XF 321	Leq,D	110.5	56	86.30	-49.7	3.0	-7.8	-0.2	-0.37	-1.9	0.5	0.0	0.0	54.0
XF 313, XF 314	Leq,D	113.0	18	107.31	-51.6	3.0	-12.9	-0.3	-0.31	-2.8	1.1	0.0	0.0	49.2
XF 335-1, XF 335-2	Leq,D	113.4	54	94.35	-50.5	3.0	-13.8	-0.2	-0.25	-1.9	1.0	0.0	0.0	50.8
XF 353A/B	Leq,D	95.4	35	399.80	-63.0	3.9	-0.9	-1.2	-0.87	-2.6	0.0	0.0	0.0	30.8
XF 353A/B	Leq,D	95.4	35	380.90	-62.6	3.8	-2.4	-1.0	-0.83	-2.6	0.0	0.0	0.0	29.8
XF 354A/B	Leq,D	95.4	35	381.97	-62.6	3.8	-2.6	-1.0	-0.54	-2.4	0.2	0.0	0.0	30.3
XF 503	Leq,D	113.0	21	86.62	-49.7	3.0	-6.4	-0.7	-0.30	-3.4	0.4	0.0	0.0	55.9
XF - 1601	Leq,D	96.6		154.53	-54.8	3.0	-3.5	-0.4		-2.0	0.0	0.0	0.0	38.9
XF - 1602	Leq,D	96.6		160.42	-55.1	3.0	0.0	-0.6	-0.44	-2.5	0.0	0.0	0.0	41.0
XF Module 1510	Leq,D	108.3		129.76	-53.3	3.0	0.0	-1.0	-0.25	-4.3	0.1	0.0	0.0	52.6
XF Module 1519	Leq,D	109.0		130.52	-53.3	3.0	0.0	-1.0	-0.25	-4.2	0.1	0.0	0.0	53.4
xxxx xxxx xxxx xxxx	Leq,D		228								8.5			19.4
xxxx xxxx xxxx xxxx	Leq,D		520								8.3			24.9
xxxx xxxx xxxx xxxx	Leq,D		1341								2.8			36.6
xxxx xxxx xxxx xxxx	Leq,D		450								9.7			22.1

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 2

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2011 Track Mobile switch moving rail cars 33 cars per day	3291	3503	25.2	109.0	84.3	95.5	92.6	91.1	96.5	101.7	102.9	102.7	100.6	95.1
XF 313, XF 314	3211	3688	31.5	113.0	57.9	80.5	99.8	101.7	107.6	109.0	104.8	98.6	87.1	74.3
XF 335-1, XF 335-2	3211	3670	33.5	113.4	73.7	91.5	102.0	104.4	107.3	104.8	108.4	102.8	93.6	82.1
XF 304, XF 321	3211	3658	33.5	110.5	72.5	90.1	100.7	102.9	106.0	103.0	99.7	99.7	89.9	78.4
XF 503	3229	3607	30.8	113.0	73.5	82.0	95.2	102.2	107.4	105.2	99.6	109.0	97.1	73.2
Construction Unit B Max Day	3464	3474	25.7	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construciton Control Room Max Day	3468	3559	25.9	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Unit A Construction Max Day	3173	3654	25.6	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Demolition Warehouse Max Day	3792	3504	26.9	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Demoltion Loading Racks Max Day	3781	3713	27.4	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction PreTreat Building Max Day	3584	3551	26.3	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction H2 Plant Max Day	3364	3594	25.7	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Unit B 2 Max Evening Night	3464	3474	25.7	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Construciton Control Room Max Evening Night	3468	3559	25.9	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Construction PreTreat Building Max Evening Night	3584	3551	26.3	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Construction H2 Plant Max Evening Night	3364	3594	25.7	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Cooling Tower CT 511-CT 511 East Side	3308	3603	27.9	97.6	55.2	70.3	84.1	89.1	91.1	91.5	90.1	89.0	82.3	
Cooling Tower CT 511-CT 511 West Side	3290	3603	27.9	97.7	55.2	70.4	84.1	89.2	91.2	91.5	90.2	89.0	82.4	
Cooling Tower CT 510-CT 510 East Side	3284	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 510-CT 510 West Side	3271	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Boiler Crude Unit-Heater Opening	3505	3408	25.1	95.6	62.0	72.8	81.2	88.7	89.3	90.1	87.7	83.1	75.8	61.7
Heater # 5-Heater	3498	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3503	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3508	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Compressor House C301, C302, C 124-Comp House North	3203	3609	26.6	103.5	60.1	72.0	91.9	96.3	97.4	95.9	97.2	91.4	87.1	
Compressor House C301, C302, C 124-Comp House West	3191	3603	26.6	97.4	55.0	70.2	83.9	88.9	90.9	91.3	89.9	88.8	82.1	
Compressor House C301, C302, C 124-Comp House South 1	3201	3598	26.6	107.7	64.3	76.1	96.1	100.4	101.6	100.0	101.4	95.6	91.2	
Compressor House C301, C302, C 124-Comp House East 1	3210	3601	26.6	101.8	58.4	70.2	90.2	94.5	95.7	94.1	95.5	89.7	85.3	
Compressor House C301, C302, C 124-Comp House South 2	3212	3603	26.6	100.8	57.4	69.2	89.2	93.5	94.7	93.1	94.5	88.7	84.3	
Compressor House C301, C302, C 124-Comp House East 2	3214	3606	26.6	100.5	67.7	73.9	82.0	93.5	93.9	94.1	91.3	94.1	78.0	
Motor & Pump P 312	3217	3632	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 313	3217	3630	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 319	3218	3627	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 318	3218	3626	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 315	3217	3624	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 316	3217	3622	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 317	3217	3620	24.7	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 309	3217	3667	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 305	3217	3665	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 303	3217	3664	24.7	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 302	3217	3662	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 300	3217	3661	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 301	3217	3659	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 307	3217	3654	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 120/121	3229	3658	24.7	96.2	44.4	60.2	73.4	83.8	90.0	92.7	88.8	84.1	74.9	64.6
Air Compressor C 1	3229	3671	24.4	110.0	66.6	78.5	98.4	102.8	103.9	102.4	103.7	97.9	93.6	
Motor & Pump P 327	3217	3683	24.7	111.2	52.5	68.1	77.3	90.9	103.2	106.4	107.0	101.7	93.6	81.0
Motor & Pump P 306	3217	3675	25.1	112.6	52.9	82.5	86.6	105.4	106.6	101.6	107.3	99.9	103.9	82.3
Motor & Pump P 329	3217	3672	25.1	110.2	56.3	78.3	86.3	97.0	102.1	108.1	101.1	96.2	87.5	76.9
Motor & Pump P 328	3217	3669	25.1	109.9	58.1	73.9	87.2	97.6	103.7	106.4	102.5	97.8	88.6	78.4
Tank Farm Pump 1	3543	3594	25.1	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 2	3565	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 3	3571	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Motor & Pump P - 1507 Reactor Pump	3266	3623	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1508 Reactor Pump	3266	3625	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1502 Splitter Reflux Pu	3275	3620	24.6	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1503 Splitter Bottoms P	3275	3625	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1504 Splitter Bottoms P	3275	3628	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1511 Stabilizer Reflux	3282	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1512 Stabilizer Reflux	3279	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1513 Caustic Circulatin	3275	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1514 Caustic Circulatin	3277	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 A	3294	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 B	3296	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 A	3297	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 2

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 1602 B	3298	3620	25.5	96.5	47.5	62.6	74.7	82.3	87.7	90.8	92.0	88.9	79.8	
UP Train Locomotive Delivery and Pickup	3068	3642	26.8	112.4	87.7	98.9	96.0	94.5	99.9	105.1	106.3	106.1	104.0	98.5
Rail Cars Bumping 6 times in during delivery	3272	3512	24.8	134.7	119.5	120.0	105.7	128.2	122.6	132.4	121.7	117.2	108.1	92.7
Cooling Tower M 513	3276	3598	25.4	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 512	3277	3598	25.2	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 514	3279	3598	25.3	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Hydro Heater H-402	3250	3598	24.9	98.1	57.2	68.0	79.4	94.1	91.1	89.8	87.7	88.6	82.9	73.3
Motor & Pump P 56A/B	3242	3613	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 459	3250	3592	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 454	3250	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 451	3251	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 458	3253	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 453	3254	3579	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 457	3254	3578	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 211/212	3223	3588	24.6	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 217/218	3223	3590	24.0	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 215/214	3222	3593	24.6	94.6	45.6	60.8	72.9	80.4	85.8	89.0	90.2	87.0	77.9	
Motor & Pump P 216	3216	3589	25.0	98.3	49.3	64.4	76.5	84.1	89.5	92.6	93.8	90.7	81.6	
XF Module 1519	3271	3627	32.7	109.0	77.1	84.1	89.4	95.1	98.8	105.0	104.2	99.4	91.1	76.8
XF Module 1510	3271	3622	32.7	108.3	76.4	83.4	88.7	94.4	98.1	104.3	103.5	98.7	90.4	76.1
XF-1502 Splitter Area 1	3277	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1502 Splitter Area 2	3277	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 1	3282	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 2	3282	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF - 1601	3296	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF - 1602	3302	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
Motor & Pump P 1505 FRESH FEED PUMPS	3266	3620	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1506 FRESH FEED PUMPS	3266	3621	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1509 Chloride Injection P	3275	3655	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Motor & Pump P 1510 Chloride Injection P	3275	3656	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Blower F 401	3240	3559	25.3	113.0	75.6	87.5	101.6	109.9	107.3	103.6	98.5	92.1	84.9	66.1
Air Compressor Pump	3356	3527	24.8	100.3	61.9	72.1	77.2	84.7	90.1	93.3	94.5	94.3	92.2	

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 2

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2011 Track Mobile switch moving rail cars 33 cars per day								106	106								106	106						
Air Compressor C 1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Air Compressor Pump	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Blower F 401	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Boiler Crude Unit-Heater Opening	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Compressor House C301, C302, C 124-Comp House East 1	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Compressor House C301, C302, C 124-Comp House East 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House North	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Compressor House C301, C302, C 124-Comp House South 1	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Compressor House C301, C302, C 124-Comp House South 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Construciton Control Room Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construciton Control Room Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction Demolition Warehouse Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction Demoltion Loading Racks Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction H2 Plant Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction H2 Plant Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construction PreTreat Building Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction PreTreat Building Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construction Unit A Construction Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction Unit B 2 Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construction Unit B Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Cooling Tower CT 510-CT 510 East Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 510-CT 510 West Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 511-CT 511 East Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower CT 511-CT 511 West Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower M 512	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 513	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 514	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Hydro Heater H-402	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 56A/B	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 120/121	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 211/212	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 215/214	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 216	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 217/218	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 300	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 301	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 302	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 303	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 305	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 306	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Motor & Pump P 307	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 309	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 312	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 313	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 315	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 316	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 317	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 318	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 2

Name	0-1 כ'clock dB(A)	1-2 כ'clock dB(A)	3-4 כ'clock dB(A)	2-3 כ'clock dB(A)	4-5 כ'clock dB(A)	5-6 כ'clock dB(A)	6-7 כ'clock dB(A)	7-8 כ'clock dB(A)	8-9 כ'clock dB(A)	9-10 כ'clock dB(A)	10-11 כ'clock dB(A)	11-12 כ'clock dB(A)	12-13 כ'clock dB(A)	13-14 כ'clock dB(A)	14-15 כ'clock dB(A)	15-16 כ'clock dB(A)	16-17 כ'clock dB(A)	17-18 כ'clock dB(A)	18-19 כ'clock dB(A)	19-20 כ'clock dB(A)	20-21 כ'clock dB(A)	21-22 כ'clock dB(A)	22-23 כ'clock dB(A)	23-24 כ'clock dB(A)
Motor & Pump P 319	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 327	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Motor & Pump P 328	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 329	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 451	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 453	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 454	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 457	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 458	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 459	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 1505 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1506 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1509 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1510 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1601 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1601 B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1502 Splitter Reflux Pu	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1503 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1504 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1507 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1508 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1511 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1512 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1513 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1514 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Rail Cars Bumping 6 times in during delivery											110													
Tank Farm Pump 1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 2	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
UP Train Locomotive Delivery and Pickup											109													
XF-1502 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1502 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF 304, XF 321	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
XF 313, XF 314	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 335-1, XF 335-2	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 503	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF - 1601	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF - 1602	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF Module 1510	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
XF Module 1519	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

AltAir Paramount - WorldEnergy
Assessed receiver levels
Case 2

Receiver	Fl	X	Y	Z	GH	CNEL	Leq,D	Ld 7-19	Le 19-22	Leq,N	
		m	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	
SS-1	G	3222.3	3477.3	27.4	24.4	74.1	71.6	72.3	66.2	66.2	
SS-1	F2	3222.3	3477.3	30.2	24.4	74.2	71.7	72.5	66.3	66.3	
SS-1	F3	3222.3	3477.3	33.0	24.4	74.5	72.1	72.8	66.6	66.6	
SS-2	G	3245.8	3463.7	27.4	24.5	73.2	71.6	72.4	64.8	64.8	
SS-2	F2	3245.8	3463.7	30.2	24.5	73.6	71.8	72.6	65.2	65.2	
SS-2	F3	3245.8	3463.7	33.0	24.5	73.9	72.1	72.8	65.6	65.5	
SS-3	G	3262.7	3452.4	27.4	24.6	72.9	71.7	72.5	64.0	64.0	
SS-3	F2	3262.7	3452.4	30.2	24.6	73.3	72.0	72.8	64.6	64.6	
SS-3	F3	3262.7	3452.4	33.0	24.6	73.6	72.1	72.9	65.0	65.0	
SS-4	G	3297.3	3432.1	26.8	24.4	72.6	71.9	72.7	63.3	63.2	
SS-4	F2	3297.3	3432.1	29.6	24.4	73.2	72.4	73.2	64.0	64.0	
SS-4	F3	3297.3	3432.1	32.4	24.4	73.4	72.5	73.4	64.3	64.2	
SS-5	G	3347.2	3401.4	26.8	24.1	73.1	72.5	73.3	63.8	63.7	
SS-5	F2	3347.2	3401.4	29.6	24.1	73.6	72.8	73.7	64.4	64.3	
SS-5	F3	3347.2	3401.4	32.4	24.1	73.7	73.0	73.8	64.5	64.4	
SS-6	G	3366.9	3388.5	26.8	24.1	73.1	72.6	73.5	63.7	63.5	
SS-6	F2	3366.9	3388.5	29.6	24.1	73.5	72.9	73.8	64.1	64.0	
SS-6	F3	3366.9	3388.5	32.4	24.1	73.6	73.0	73.9	64.3	64.2	
MH-1	G	3278.2	3756.8	27.5	24.7	64.0	60.5	61.1	56.6	56.5	
MH-2	G	3301.5	3757.4	27.5	24.7	63.1	59.8	60.4	55.6	55.6	
MH-3	G	3325.0	3757.4	27.4	24.6	62.9	60.6	61.3	54.8	54.8	
MH-4	G	3348.3	3757.7	27.3	24.4	62.1	60.5	61.3	53.7	53.6	
MH-5	G	3372.0	3757.9	27.3	24.5	60.4	59.6	60.4	51.3	51.1	
MH-6	G	3394.7	3757.8	27.4	24.6	59.5	58.9	59.7	50.3	50.1	
MH-7	G	3417.3	3757.5	27.4	24.5	59.8	59.0	59.8	50.8	50.6	
MH-8	G	3434.4	3757.6	27.5	24.6	61.0	60.9	61.8	51.0	50.8	
CA-1	G	3463.2	3759.8	28.1	25.1	62.4	61.7	62.5	53.3	53.0	
CA-2	G	3490.4	3761.3	28.5	25.2	62.1	61.7	62.6	52.4	52.2	
CA-3	G	3505.3	3759.6	28.3	25.0	61.8	62.2	63.2	50.7	50.6	
CA-4	G	3527.8	3759.9	28.7	25.3	61.0	60.4	61.2	51.8	51.6	
HWES	G	3131.7	3871.5	25.4	23.9	66.4	64.5	65.3	58.7	58.1	
PHS	G	3034.0	3761.2	25.4	23.8	74.8	71.3	71.8	68.3	67.2	
RMHP	G	3862.6	3706.8	27.2	25.7	71.7	70.8	71.4	67.5	61.8	
RLCTP	G	3873.8	3540.5	26.7	25.2	69.1	69.0	69.7	63.9	58.3	

AltAir Paramount - WorldEnergy
Emission calculation road - Case 2

Road	ADT	MSVges Day	MSVges Night	
	Veh/24h	Veh/h	Veh/h	
Lakewood NB	13000	835	144	
Lakewood NB	13000	835	144	
Lakewood SB	13000	835	144	
Lakewood SB	13000	835	144	
Lakewood NB	11755	755	130	
Lakewood NB	11755	755	130	
Lakewood SB	11755	755	130	
Somerset Ave EB	7450	478	83	
Somerset Ave WB	7450	478	83	
Somerset Ave WB	7450	478	83	
Somerset Ave EB	7180	461	80	
Somerset Ave EB	7180	461	80	
Somerset Ave WB	7180	461	80	
Somerset Ave WB	7180	461	80	
Somerset Ave EB	6945	446	77	
Somerset Ave EB	6945	446	77	
Somerset Ave WB	6945	446	77	
Somerset Ave WB	6945	446	77	
Downey Ave NB	6920	444	77	
Downey Ave NB	6920	444	77	
Downey Ave NB	6920	444	77	
Downey Ave SB	6920	444	77	
Downey Ave NB	6855	440	76	
Downey Ave SB	6855	440	76	
Downey Ave SB	6855	440	76	
Somerset Ave EB	6675	429	74	
Somerset Ave EB	6675	429	74	
Somerset Ave WB	6675	429	74	
Somerset Ave WB	6675	429	74	
Construction / Renewable Fuels Truck Tr	321	23	2	
Construction / Renewable Fuels Truck Tr	318	23	2	
Construction / Renewable Fuels Truck Tr	270	21	0	
Crude Operatoin Truck Truck Traffic	48	2	2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Receiver SS-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 71.6 dB(A)		Ld 7-19 dB(A)	Leq,N 66.2 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	48.1	51.1			
Air Compressor C 1	52.5	45.8	45.8	45.8	
Air Compressor Pump	50.8	44.2	44.2	44.2	
Blower F 401	57.7	51.0	51.0	51.0	
Boiler Crude Unit-Heater Opening	43.7	37.0	37.0	37.0	
Compressor House C301, C302, C 124-Comp House East 1	53.5	46.8	46.8	46.8	
Compressor House C301, C302, C 124-Comp House East 2	53.2	46.5	46.5	46.5	
Compressor House C301, C302, C 124-Comp House North	41.6	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House South 1	54.4	47.8	47.8	47.8	
Compressor House C301, C302, C 124-Comp House South 2	48.1	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House West	45.6	39.0	39.0	39.0	
Construciton Control Room Max Evening Night	58.2		52.0	52.0	
Construciton Control Room Max Day	59.7	62.7			
Construction / Renewable Fuels Truck Tr	44.5	46.5	40.9	23.8	
Construction Demolition Warehouse Max Day	43.7	46.8			
Construction Demoltion Loading Racks Max Day	44.9	47.9			
Construction H2 Plant Max Day	62.7	65.7			
Construction H2 Plant Max Evening Night	61.1		55.0	55.0	
Construction PreTreat Building Max Day	56.8	59.8			
Construction PreTreat Building Max Evening Night	55.3		49.1	49.1	
Construction Unit A Construction Max Day	61.8	64.8			
Construction Unit B 2 Max Evening Night	61.3		55.1	55.1	
Construction Unit B Max Day	62.8	65.8			
Cooling Tower CT 510-CT 510 East Side	36.0	29.3	29.3	29.3	
Cooling Tower CT 510-CT 510 West Side	55.9	49.3	49.3	49.3	
Cooling Tower CT 511-CT 511 East Side	31.6	24.9	24.9	24.9	
Cooling Tower CT 511-CT 511 West Side	52.1	45.5	45.5	45.5	
Cooling Tower M 512	53.0	46.3	46.3	46.3	
Cooling Tower M 513	53.0	46.4	46.4	46.4	
Cooling Tower M 514	51.4	44.7	44.7	44.7	
Crude Operatoin Truck Truck Traffic	35.0	28.3	28.3	28.3	
Downey Ave NB	37.3	35.8	34.1	28.2	
Downey Ave SB	36.7	35.2	33.5	27.6	
Heater # 5-Heater	28.5	21.8	21.8	21.8	
Heater # 5-Heater	30.8	24.1	24.1	24.1	
Heater # 5-Heater	34.9	28.2	28.2	28.2	
Hydro Heater H-402	42.2	35.6	35.6	35.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Lakewood NB	29.7	28.2	26.4	20.5	
Lakewood SB	29.7	28.2	26.5	20.6	
Motor & Pump P - 1502 Splitter Reflux Pu	50.0	43.4	43.4	43.4	
Motor & Pump P - 1503 Splitter Bottoms P	49.7	43.0	43.0	43.0	
Motor & Pump P - 1504 Splitter Bottoms P	49.5	42.9	42.9	42.9	
Motor & Pump P - 1507 Reactor Pump	40.7	34.0	34.0	34.0	
Motor & Pump P - 1508 Reactor Pump	42.0	35.4	35.4	35.4	
Motor & Pump P - 1511 Stabilizer Reflux	44.0	37.4	37.4	37.4	
Motor & Pump P - 1512 Stabilizer Reflux	48.8	42.2	42.2	42.2	
Motor & Pump P - 1513 Caustic Circulatin	49.0	42.3	42.3	42.3	
Motor & Pump P - 1514 Caustic Circulatin	49.0	42.4	42.4	42.4	
Motor & Pump P 120/121	36.4	29.7	29.7	29.7	
Motor & Pump P 1505 FRESH FEED PUMPS	32.6	25.9	25.9	25.9	
Motor & Pump P 1506 FRESH FEED PUMPS	46.9	40.2	40.2	40.2	
Motor & Pump P 1509 Chloride Injection P	39.5	32.8	32.8	32.8	
Motor & Pump P 1510 Chloride Injection P	39.3	32.6	32.6	32.6	
Motor & Pump P 1601 A	41.8	35.1	35.1	35.1	
Motor & Pump P 1601 B	41.3	34.6	34.6	34.6	
Motor & Pump P 1602 A	42.8	36.1	36.1	36.1	
Motor & Pump P 1602 B	35.0	28.3	28.3	28.3	
Motor & Pump P 211/212	43.9	37.2	37.2	37.2	
Motor & Pump P 215/214	46.0	39.4	39.4	39.4	
Motor & Pump P 216	53.7	47.0	47.0	47.0	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.7	42.1	42.1	42.1	
Motor & Pump P 301	53.8	47.1	47.1	47.1	
Motor & Pump P 302	48.7	42.0	42.0	42.0	
Motor & Pump P 303	48.5	41.9	41.9	41.9	
Motor & Pump P 305	48.9	42.2	42.2	42.2	
Motor & Pump P 306	62.2	55.5	55.5	55.5	
Motor & Pump P 307	54.0	47.3	47.3	47.3	
Motor & Pump P 309	48.8	42.2	42.2	42.2	
Motor & Pump P 312	54.6	47.9	47.9	47.9	
Motor & Pump P 313	54.6	48.0	48.0	48.0	
Motor & Pump P 315	56.2	49.5	49.5	49.5	
Motor & Pump P 316	56.3	49.6	49.6	49.6	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.7	47.0	47.0	47.0	
Motor & Pump P 319	53.6	46.9	46.9	46.9	
Motor & Pump P 327	48.3	41.6	41.6	41.6	
Motor & Pump P 328	60.2	53.5	53.5	53.5	
Motor & Pump P 329	60.6	53.9	53.9	53.9	
Motor & Pump P 451	41.1	34.5	34.5	34.5	
Motor & Pump P 453	45.5	38.8	38.8	38.8	
Motor & Pump P 454	35.8	29.1	29.1	29.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 457	46.5	39.9	39.9	39.9	
Motor & Pump P 458	34.3	27.6	27.6	27.6	
Motor & Pump P 459	35.6	29.0	29.0	29.0	
Motor & Pump P 56A/B	41.9	35.2	35.2	35.2	
Rail Cars Bumping 6 times in during delivery	46.7	49.7			
Somerset Ave EB	33.3	31.8	30.0	24.1	
Somerset Ave WB	32.5	31.0	29.3	23.4	
Tank Farm Pump 1	41.9	35.3	35.3	35.3	
Tank Farm Pump 2	41.1	34.5	34.5	34.5	
Tank Farm Pump 3	41.1	34.4	34.4	34.4	
UP Train Locomotive Delivery and Pickup	43.0	46.0			
XF-1502 Splitter Area 1	52.3	45.6	45.6	45.6	
XF-1502 Splitter Area 2	52.7	46.0	46.0	46.0	
XF-1504 Splitter Area 1	52.1	45.5	45.5	45.5	
XF-1504 Splitter Area 2	48.6	41.9	41.9	41.9	
XF - 1601	46.5	39.8	39.8	39.8	
XF - 1602	45.4	38.7	38.7	38.7	
XF 304, XF 321	56.9	50.2	50.2	50.2	
XF 313, XF 314	53.3	46.7	46.7	46.7	
XF 335-1, XF 335-2	55.9	49.3	49.3	49.3	
XF 503	61.6	54.9	54.9	54.9	
XF Module 1510	56.8	50.1	50.1	50.1	
XF Module 1519	57.1	50.5	50.5	50.5	
Receiver SS-1 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.7 dB(A) Ld 7-19 dB(A) Leq,N 66.3 dB(A) Le 19					
2011 Track Mobile switch moving rail cars 33 cars per day	47.9	51.0			
Air Compressor C 1	52.8	46.1	46.1	46.1	
Air Compressor Pump	50.8	44.2	44.2	44.2	
Blower F 401	58.1	51.4	51.4	51.4	
Boiler Crude Unit-Heater Opening	45.6	39.0	39.0	39.0	
Compressor House C301, C302, C 124-Comp House East 1	54.4	47.7	47.7	47.7	
Compressor House C301, C302, C 124-Comp House East 2	53.7	47.0	47.0	47.0	
Compressor House C301, C302, C 124-Comp House North	44.8	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House South 1	55.0	48.3	48.3	48.3	
Compressor House C301, C302, C 124-Comp House South 2	49.0	42.3	42.3	42.3	
Compressor House C301, C302, C 124-Comp House West	46.2	39.5	39.5	39.5	
Construciton Control Room Max Evening Night	57.9		51.7	51.7	
Construciton Control Room Max Day	59.4	62.4			
Construction / Renewable Fuels Truck Tr	44.5	46.6	40.9	22.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction Demolition Warehouse Max Day	44.2	47.2			
Construction Demoltion Loading Racks Max Day	46.7	49.7			
Construction H2 Plant Max Day	62.2	65.2			
Construction H2 Plant Max Evening Night	60.7		54.5	54.5	
Construction PreTreat Building Max Day	57.3	60.3			
Construction PreTreat Building Max Evening Night	55.8		49.6	49.6	
Construction Unit A Construction Max Day	62.7	65.7			
Construction Unit B 2 Max Evening Night	61.4		55.2	55.2	
Construction Unit B Max Day	62.9	65.9			
Cooling Tower CT 510-CT 510 East Side	37.3	30.6	30.6	30.6	
Cooling Tower CT 510-CT 510 West Side	56.3	49.7	49.7	49.7	
Cooling Tower CT 511-CT 511 East Side	32.2	25.5	25.5	25.5	
Cooling Tower CT 511-CT 511 West Side	53.8	47.1	47.1	47.1	
Cooling Tower M 512	53.2	46.5	46.5	46.5	
Cooling Tower M 513	53.2	46.6	46.6	46.6	
Cooling Tower M 514	52.1	45.4	45.4	45.4	
Crude Operatoin Truck Truck Traffic	33.0	26.3	26.3	26.3	
Downey Ave NB	39.3	37.8	36.1	30.2	
Downey Ave SB	38.8	37.3	35.6	29.7	
Heater # 5-Heater	29.2	22.6	22.6	22.6	
Heater # 5-Heater	31.7	25.0	25.0	25.0	
Heater # 5-Heater	35.5	28.8	28.8	28.8	
Hydro Heater H-402	43.3	36.7	36.7	36.7	
Lakewood NB	27.9	26.3	24.6	18.7	
Lakewood SB	27.9	26.4	24.7	18.8	
Motor & Pump P - 1502 Splitter Reflux Pu	49.7	43.1	43.1	43.1	
Motor & Pump P - 1503 Splitter Bottoms P	49.4	42.7	42.7	42.7	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1507 Reactor Pump	42.1	35.4	35.4	35.4	
Motor & Pump P - 1508 Reactor Pump	43.5	36.8	36.8	36.8	
Motor & Pump P - 1511 Stabilizer Reflux	44.4	37.7	37.7	37.7	
Motor & Pump P - 1512 Stabilizer Reflux	48.4	41.7	41.7	41.7	
Motor & Pump P - 1513 Caustic Circulatin	48.7	42.0	42.0	42.0	
Motor & Pump P - 1514 Caustic Circulatin	48.8	42.1	42.1	42.1	
Motor & Pump P 120/121	36.6	29.9	29.9	29.9	
Motor & Pump P 1505 FRESH FEED PUMPS	32.6	25.9	25.9	25.9	
Motor & Pump P 1506 FRESH FEED PUMPS	46.7	40.0	40.0	40.0	
Motor & Pump P 1509 Chloride Injection P	39.7	33.1	33.1	33.1	
Motor & Pump P 1510 Chloride Injection P	39.3	32.6	32.6	32.6	
Motor & Pump P 1601 A	43.4	36.8	36.8	36.8	
Motor & Pump P 1601 B	43.2	36.5	36.5	36.5	
Motor & Pump P 1602 A	44.3	37.7	37.7	37.7	
Motor & Pump P 1602 B	35.3	28.6	28.6	28.6	
Motor & Pump P 211/212	44.1	37.5	37.5	37.5	
Motor & Pump P 215/214	46.3	39.6	39.6	39.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 216	53.9	47.2	47.2	47.2	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.2	41.5	41.5	41.5	
Motor & Pump P 301	53.2	46.6	46.6	46.6	
Motor & Pump P 302	48.1	41.4	41.4	41.4	
Motor & Pump P 303	48.0	41.3	41.3	41.3	
Motor & Pump P 305	48.3	41.6	41.6	41.6	
Motor & Pump P 306	61.9	55.2	55.2	55.2	
Motor & Pump P 307	53.5	46.8	46.8	46.8	
Motor & Pump P 309	48.2	41.6	41.6	41.6	
Motor & Pump P 312	54.1	47.4	47.4	47.4	
Motor & Pump P 313	54.2	47.6	47.6	47.6	
Motor & Pump P 315	56.0	49.3	49.3	49.3	
Motor & Pump P 316	56.1	49.5	49.5	49.5	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.2	46.5	46.5	46.5	
Motor & Pump P 319	53.1	46.4	46.4	46.4	
Motor & Pump P 327	47.6	40.9	40.9	40.9	
Motor & Pump P 328	59.8	53.1	53.1	53.1	
Motor & Pump P 329	60.1	53.5	53.5	53.5	
Motor & Pump P 451	43.2	36.6	36.6	36.6	
Motor & Pump P 453	46.0	39.3	39.3	39.3	
Motor & Pump P 454	36.1	29.4	29.4	29.4	
Motor & Pump P 457	47.0	40.3	40.3	40.3	
Motor & Pump P 458	35.1	28.4	28.4	28.4	
Motor & Pump P 459	36.0	29.3	29.3	29.3	
Motor & Pump P 56A/B	43.2	36.5	36.5	36.5	
Rail Cars Bumping 6 times in during delivery	47.0	50.0			
Somerset Ave EB	34.8	33.3	31.5	25.6	
Somerset Ave WB	33.7	32.2	30.5	24.6	
Tank Farm Pump 1	42.7	36.0	36.0	36.0	
Tank Farm Pump 2	41.4	34.7	34.7	34.7	
Tank Farm Pump 3	41.8	35.1	35.1	35.1	
UP Train Locomotive Delivery and Pickup	42.8	45.9			
XF-1502 Splitter Area 1	52.9	46.3	46.3	46.3	
XF-1502 Splitter Area 2	53.1	46.5	46.5	46.5	
XF-1504 Splitter Area 1	52.8	46.1	46.1	46.1	
XF-1504 Splitter Area 2	49.0	42.4	42.4	42.4	
XF - 1601	47.3	40.7	40.7	40.7	
XF - 1602	46.9	40.3	40.3	40.3	
XF 304, XF 321	58.0	51.4	51.4	51.4	
XF 313, XF 314	53.6	47.0	47.0	47.0	
XF 335-1, XF 335-2	57.1	50.4	50.4	50.4	
XF 503	61.6	54.9	54.9	54.9	
XF Module 1510	57.1	50.5	50.5	50.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF Module 1519	57.5	50.8	50.8	50.8	
Receiver SS-1 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 72.1 dB(A)		Ld 7-19 dB(A)	Leq,N 66.6 dB(A) Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	48.0	51.0			
Air Compressor C 1	55.2	48.5	48.5	48.5	
Air Compressor Pump	50.9	44.2	44.2	44.2	
Blower F 401	58.6	51.9	51.9	51.9	
Boiler Crude Unit-Heater Opening	45.9	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House East 1	54.9	48.2	48.2	48.2	
Compressor House C301, C302, C 124-Comp House East 2	53.7	47.1	47.1	47.1	
Compressor House C301, C302, C 124-Comp House North	45.9	39.2	39.2	39.2	
Compressor House C301, C302, C 124-Comp House South 1	55.1	48.5	48.5	48.5	
Compressor House C301, C302, C 124-Comp House South 2	49.4	42.7	42.7	42.7	
Compressor House C301, C302, C 124-Comp House West	46.2	39.6	39.6	39.6	
Construciton Control Room Max Evening Night	58.0		51.9	51.9	
Construciton Control Room Max Day	59.6	62.6			
Construction / Renewable Fuels Truck Tr	45.2	47.3	41.7	22.1	
Construction Demolition Warehouse Max Day	44.4	47.4			
Construction Demoltion Loading Racks Max Day	47.1	50.1			
Construction H2 Plant Max Day	62.8	65.8			
Construction H2 Plant Max Evening Night	61.3		55.1	55.1	
Construction PreTreat Building Max Day	57.0	60.0			
Construction PreTreat Building Max Evening Night	55.5		49.3	49.3	
Construction Unit A Construction Max Day	63.2	66.2			
Construction Unit B 2 Max Evening Night	61.4		55.3	55.3	
Construction Unit B Max Day	63.0	66.0			
Cooling Tower CT 510-CT 510 East Side	36.6	30.0	30.0	30.0	
Cooling Tower CT 510-CT 510 West Side	56.4	49.7	49.7	49.7	
Cooling Tower CT 511-CT 511 East Side	32.9	26.3	26.3	26.3	
Cooling Tower CT 511-CT 511 West Side	54.9	48.2	48.2	48.2	
Cooling Tower M 512	53.2	46.5	46.5	46.5	
Cooling Tower M 513	53.2	46.6	46.6	46.6	
Cooling Tower M 514	52.3	45.6	45.6	45.6	
Crude Operatoin Truck Truck Traffic	33.2	26.5	26.5	26.5	
Downey Ave NB	40.7	39.2	37.5	31.6	
Downey Ave SB	40.2	38.7	37.0	31.1	
Heater # 5-Heater	29.2	22.5	22.5	22.5	
Heater # 5-Heater	31.6	25.0	25.0	25.0	
Heater # 5-Heater	35.3	28.6	28.6	28.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Hydro Heater H-402	43.9	37.2	37.2	37.2	
Lakewood NB	28.3	26.8	25.0	19.1	
Lakewood SB	28.3	26.8	25.0	19.1	
Motor & Pump P - 1502 Splitter Reflux Pu	49.7	43.1	43.1	43.1	
Motor & Pump P - 1503 Splitter Bottoms P	49.4	42.7	42.7	42.7	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1507 Reactor Pump	46.3	39.7	39.7	39.7	
Motor & Pump P - 1508 Reactor Pump	47.2	40.5	40.5	40.5	
Motor & Pump P - 1511 Stabilizer Reflux	44.5	37.8	37.8	37.8	
Motor & Pump P - 1512 Stabilizer Reflux	48.4	41.7	41.7	41.7	
Motor & Pump P - 1513 Caustic Circulatin	48.8	42.1	42.1	42.1	
Motor & Pump P - 1514 Caustic Circulatin	48.8	42.1	42.1	42.1	
Motor & Pump P 120/121	40.4	33.7	33.7	33.7	
Motor & Pump P 1505 FRESH FEED PUMPS	42.1	35.5	35.5	35.5	
Motor & Pump P 1506 FRESH FEED PUMPS	48.6	41.9	41.9	41.9	
Motor & Pump P 1509 Chloride Injection P	44.5	37.9	37.9	37.9	
Motor & Pump P 1510 Chloride Injection P	44.4	37.7	37.7	37.7	
Motor & Pump P 1601 A	47.1	40.4	40.4	40.4	
Motor & Pump P 1601 B	47.2	40.5	40.5	40.5	
Motor & Pump P 1602 A	44.5	37.8	37.8	37.8	
Motor & Pump P 1602 B	41.8	35.1	35.1	35.1	
Motor & Pump P 211/212	44.1	37.5	37.5	37.5	
Motor & Pump P 215/214	46.3	39.6	39.6	39.6	
Motor & Pump P 216	53.9	47.2	47.2	47.2	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.2	41.5	41.5	41.5	
Motor & Pump P 301	53.3	46.6	46.6	46.6	
Motor & Pump P 302	48.1	41.4	41.4	41.4	
Motor & Pump P 303	48.0	41.3	41.3	41.3	
Motor & Pump P 305	48.3	41.7	41.7	41.7	
Motor & Pump P 306	62.0	55.3	55.3	55.3	
Motor & Pump P 307	53.5	46.8	46.8	46.8	
Motor & Pump P 309	48.3	41.6	41.6	41.6	
Motor & Pump P 312	54.1	47.4	47.4	47.4	
Motor & Pump P 313	54.2	47.6	47.6	47.6	
Motor & Pump P 315	56.0	49.3	49.3	49.3	
Motor & Pump P 316	56.1	49.5	49.5	49.5	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.2	46.5	46.5	46.5	
Motor & Pump P 319	53.1	46.4	46.4	46.4	
Motor & Pump P 327	48.6	41.9	41.9	41.9	
Motor & Pump P 328	59.8	53.2	53.2	53.2	
Motor & Pump P 329	60.2	53.5	53.5	53.5	
Motor & Pump P 451	44.5	37.8	37.8	37.8	
Motor & Pump P 453	46.4	39.8	39.8	39.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 454	36.7	30.1	30.1	30.1	
Motor & Pump P 457	47.3	40.6	40.6	40.6	
Motor & Pump P 458	38.4	31.7	31.7	31.7	
Motor & Pump P 459	36.7	30.0	30.0	30.0	
Motor & Pump P 56A/B	42.3	35.6	35.6	35.6	
Rail Cars Bumping 6 times in during delivery	47.2	50.2			
Somerset Ave EB	36.1	34.6	32.9	26.9	
Somerset Ave WB	35.3	33.8	32.1	26.2	
Tank Farm Pump 1	42.2	35.5	35.5	35.5	
Tank Farm Pump 2	40.1	33.4	33.4	33.4	
Tank Farm Pump 3	39.9	33.2	33.2	33.2	
UP Train Locomotive Delivery and Pickup	42.6	45.6			
XF-1502 Splitter Area 1	53.0	46.3	46.3	46.3	
XF-1502 Splitter Area 2	53.2	46.5	46.5	46.5	
XF-1504 Splitter Area 1	52.8	46.2	46.2	46.2	
XF-1504 Splitter Area 2	49.1	42.4	42.4	42.4	
XF - 1601	47.5	40.8	40.8	40.8	
XF - 1602	47.3	40.6	40.6	40.6	
XF 304, XF 321	59.7	53.1	53.1	53.1	
XF 313, XF 314	53.9	47.3	47.3	47.3	
XF 335-1, XF 335-2	58.9	52.2	52.2	52.2	
XF 503	61.7	55.0	55.0	55.0	
XF Module 1510	57.2	50.5	50.5	50.5	
XF Module 1519	57.6	50.9	50.9	50.9	
Receiver SS-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.6 dB(A) Ld 7-19 dB(A) Leq,N 64.8 dB(A) Le 19-2					
2011 Track Mobile switch moving rail cars 33 cars per day	48.5	51.5			
Air Compressor C 1	51.4	44.7	44.7	44.7	
Air Compressor Pump	38.9	32.2	32.2	32.2	
Blower F 401	56.3	49.6	49.6	49.6	
Boiler Crude Unit-Heater Opening	45.0	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House East 1	54.1	47.4	47.4	47.4	
Compressor House C301, C302, C 124-Comp House East 2	52.6	45.9	45.9	45.9	
Compressor House C301, C302, C 124-Comp House North	40.8	34.2	34.2	34.2	
Compressor House C301, C302, C 124-Comp House South 1	53.3	46.7	46.7	46.7	
Compressor House C301, C302, C 124-Comp House South 2	47.7	41.0	41.0	41.0	
Compressor House C301, C302, C 124-Comp House West	43.4	36.7	36.7	36.7	
Construciton Control Room Max Evening Night	59.6		53.4	53.4	
Construciton Control Room Max Day	61.1	64.1			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction / Renewable Fuels Truck Tr	45.9	48.0	42.3	20.2	
Construction Demolition Warehouse Max Day	43.5	46.6			
Construction Demoltion Loading Racks Max Day	47.0	50.0			
Construction H2 Plant Max Day	63.4	66.4			
Construction H2 Plant Max Evening Night	61.9		55.7	55.7	
Construction PreTreat Building Max Day	57.0	60.0			
Construction PreTreat Building Max Evening Night	55.5		49.3	49.3	
Construction Unit A Construction Max Day	60.0	63.0			
Construction Unit B 2 Max Evening Night	62.4		56.2	56.2	
Construction Unit B Max Day	63.9	66.9			
Cooling Tower CT 510-CT 510 East Side	30.6	24.0	24.0	24.0	
Cooling Tower CT 510-CT 510 West Side	52.7	46.0	46.0	46.0	
Cooling Tower CT 511-CT 511 East Side	27.8	21.1	21.1	21.1	
Cooling Tower CT 511-CT 511 West Side	50.2	43.5	43.5	43.5	
Cooling Tower M 512	52.8	46.1	46.1	46.1	
Cooling Tower M 513	52.7	46.0	46.0	46.0	
Cooling Tower M 514	52.7	46.0	46.0	46.0	
Crude Operatoin Truck Truck Traffic	33.8	27.1	27.1	27.1	
Downey Ave NB	36.6	35.1	33.4	27.5	
Downey Ave SB	36.5	35.0	33.3	27.4	
Heater # 5-Heater	30.3	23.7	23.7	23.7	
Heater # 5-Heater	32.2	25.6	25.6	25.6	
Heater # 5-Heater	36.1	29.4	29.4	29.4	
Hydro Heater H-402	49.6	42.9	42.9	42.9	
Lakewood NB	29.2	27.7	25.9	20.0	
Lakewood SB	29.3	27.8	26.1	20.2	
Motor & Pump P - 1502 Splitter Reflux Pu	34.2	27.5	27.5	27.5	
Motor & Pump P - 1503 Splitter Bottoms P	38.9	32.2	32.2	32.2	
Motor & Pump P - 1504 Splitter Bottoms P	41.0	34.4	34.4	34.4	
Motor & Pump P - 1507 Reactor Pump	44.4	37.7	37.7	37.7	
Motor & Pump P - 1508 Reactor Pump	45.6	39.0	39.0	39.0	
Motor & Pump P - 1511 Stabilizer Reflux	35.6	29.0	29.0	29.0	
Motor & Pump P - 1512 Stabilizer Reflux	35.2	28.5	28.5	28.5	
Motor & Pump P - 1513 Caustic Circulatin	43.8	37.1	37.1	37.1	
Motor & Pump P - 1514 Caustic Circulatin	37.5	30.9	30.9	30.9	
Motor & Pump P 120/121	36.4	29.8	29.8	29.8	
Motor & Pump P 1505 FRESH FEED PUMPS	41.4	34.7	34.7	34.7	
Motor & Pump P 1506 FRESH FEED PUMPS	43.7	37.0	37.0	37.0	
Motor & Pump P 1509 Chloride Injection P	42.4	35.7	35.7	35.7	
Motor & Pump P 1510 Chloride Injection P	42.7	36.0	36.0	36.0	
Motor & Pump P 1601 A	38.2	31.5	31.5	31.5	
Motor & Pump P 1601 B	34.1	27.4	27.4	27.4	
Motor & Pump P 1602 A	30.4	23.7	23.7	23.7	
Motor & Pump P 1602 B	29.9	23.3	23.3	23.3	
Motor & Pump P 211/212	48.0	41.3	41.3	41.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 215/214	48.8	42.1	42.1	42.1	
Motor & Pump P 216	52.3	45.6	45.6	45.6	
Motor & Pump P 217/218	48.3	41.6	41.6	41.6	
Motor & Pump P 300	41.7	35.0	35.0	35.0	
Motor & Pump P 301	47.5	40.9	40.9	40.9	
Motor & Pump P 302	40.5	33.9	33.9	33.9	
Motor & Pump P 303	40.2	33.5	33.5	33.5	
Motor & Pump P 305	39.9	33.2	33.2	33.2	
Motor & Pump P 306	52.7	46.1	46.1	46.1	
Motor & Pump P 307	50.1	43.4	43.4	43.4	
Motor & Pump P 309	39.2	32.6	32.6	32.6	
Motor & Pump P 312	53.9	47.2	47.2	47.2	
Motor & Pump P 313	54.0	47.3	47.3	47.3	
Motor & Pump P 315	55.6	48.9	48.9	48.9	
Motor & Pump P 316	55.5	48.8	48.8	48.8	
Motor & Pump P 317	55.4	48.7	48.7	48.7	
Motor & Pump P 318	53.1	46.4	46.4	46.4	
Motor & Pump P 319	52.9	46.3	46.3	46.3	
Motor & Pump P 327	42.4	35.7	35.7	35.7	
Motor & Pump P 328	52.2	45.6	45.6	45.6	
Motor & Pump P 329	51.4	44.8	44.8	44.8	
Motor & Pump P 451	41.0	34.3	34.3	34.3	
Motor & Pump P 453	49.2	42.5	42.5	42.5	
Motor & Pump P 454	44.2	37.6	37.6	37.6	
Motor & Pump P 457	49.3	42.6	42.6	42.6	
Motor & Pump P 458	40.1	33.4	33.4	33.4	
Motor & Pump P 459	44.2	37.6	37.6	37.6	
Motor & Pump P 56A/B	40.4	33.8	33.8	33.8	
Rail Cars Bumping 6 times in during delivery	46.5	49.5			
Somerset Ave EB	36.4	34.9	33.2	27.3	
Somerset Ave WB	35.8	34.3	32.5	26.6	
Tank Farm Pump 1	44.4	37.7	37.7	37.7	
Tank Farm Pump 2	41.2	34.5	34.5	34.5	
Tank Farm Pump 3	40.9	34.2	34.2	34.2	
UP Train Locomotive Delivery and Pickup	42.7	45.7			
XF-1502 Splitter Area 1	51.3	44.6	44.6	44.6	
XF-1502 Splitter Area 2	51.7	45.0	45.0	45.0	
XF-1504 Splitter Area 1	47.9	41.2	41.2	41.2	
XF-1504 Splitter Area 2	47.7	41.0	41.0	41.0	
XF - 1601	45.4	38.8	38.8	38.8	
XF - 1602	46.2	39.5	39.5	39.5	
XF 304, XF 321	56.5	49.8	49.8	49.8	
XF 313, XF 314	53.5	46.9	46.9	46.9	
XF 335-1, XF 335-2	55.4	48.7	48.7	48.7	
XF 503	58.9	52.3	52.3	52.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF Module 1510	55.2	48.5	48.5	48.5	
XF Module 1519	55.2	48.5	48.5	48.5	
Receiver SS-2 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 71.8 dB(A)		Ld 7-19 dB(A)	Leq,N 65.2 dB(A) Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	48.5	51.5			
Air Compressor C 1	51.8	45.1	45.1	45.1	
Air Compressor Pump	38.0	31.4	31.4	31.4	
Blower F 401	56.9	50.3	50.3	50.3	
Boiler Crude Unit-Heater Opening	46.6	40.0	40.0	40.0	
Compressor House C301, C302, C 124-Comp House East 1	55.1	48.4	48.4	48.4	
Compressor House C301, C302, C 124-Comp House East 2	53.3	46.6	46.6	46.6	
Compressor House C301, C302, C 124-Comp House North	43.7	37.0	37.0	37.0	
Compressor House C301, C302, C 124-Comp House South 1	54.0	47.3	47.3	47.3	
Compressor House C301, C302, C 124-Comp House South 2	48.5	41.9	41.9	41.9	
Compressor House C301, C302, C 124-Comp House West	44.0	37.4	37.4	37.4	
Construciton Control Room Max Evening Night	59.3		53.1	53.1	
Construciton Control Room Max Day	60.8	63.8			
Construction / Renewable Fuels Truck Tr	45.7	47.8	42.1	20.4	
Construction Demolition Warehouse Max Day	44.6	47.7			
Construction Demoltion Loading Racks Max Day	47.4	50.4			
Construction H2 Plant Max Day	63.5	66.5			
Construction H2 Plant Max Evening Night	62.0		55.8	55.8	
Construction PreTreat Building Max Day	57.6	60.6			
Construction PreTreat Building Max Evening Night	56.0		49.9	49.9	
Construction Unit A Construction Max Day	60.6	63.6			
Construction Unit B 2 Max Evening Night	62.6		56.4	56.4	
Construction Unit B Max Day	64.1	67.1			
Cooling Tower CT 510-CT 510 East Side	31.3	24.6	24.6	24.6	
Cooling Tower CT 510-CT 510 West Side	53.3	46.7	46.7	46.7	
Cooling Tower CT 511-CT 511 East Side	28.7	22.0	22.0	22.0	
Cooling Tower CT 511-CT 511 West Side	51.4	44.7	44.7	44.7	
Cooling Tower M 512	52.8	46.2	46.2	46.2	
Cooling Tower M 513	52.8	46.2	46.2	46.2	
Cooling Tower M 514	52.8	46.1	46.1	46.1	
Crude Operatoin Truck Truck Traffic	33.7	27.1	27.1	27.1	
Downey Ave NB	38.0	36.4	34.7	28.8	
Downey Ave SB	37.8	36.2	34.5	28.6	
Heater # 5-Heater	31.1	24.4	24.4	24.4	
Heater # 5-Heater	33.1	26.5	26.5	26.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	36.6	30.0	30.0	30.0	
Hydro Heater H-402	50.8	44.1	44.1	44.1	
Lakewood NB	29.1	27.6	25.8	19.9	
Lakewood SB	29.3	27.8	26.1	20.2	
Motor & Pump P - 1502 Splitter Reflux Pu	36.3	29.6	29.6	29.6	
Motor & Pump P - 1503 Splitter Bottoms P	40.5	33.8	33.8	33.8	
Motor & Pump P - 1504 Splitter Bottoms P	42.6	36.0	36.0	36.0	
Motor & Pump P - 1507 Reactor Pump	44.2	37.5	37.5	37.5	
Motor & Pump P - 1508 Reactor Pump	45.4	38.7	38.7	38.7	
Motor & Pump P - 1511 Stabilizer Reflux	36.5	29.8	29.8	29.8	
Motor & Pump P - 1512 Stabilizer Reflux	38.3	31.7	31.7	31.7	
Motor & Pump P - 1513 Caustic Circulatin	45.2	38.5	38.5	38.5	
Motor & Pump P - 1514 Caustic Circulatin	39.7	33.1	33.1	33.1	
Motor & Pump P 120/121	36.7	30.1	30.1	30.1	
Motor & Pump P 1505 FRESH FEED PUMPS	41.4	34.7	34.7	34.7	
Motor & Pump P 1506 FRESH FEED PUMPS	43.5	36.9	36.9	36.9	
Motor & Pump P 1509 Chloride Injection P	42.9	36.2	36.2	36.2	
Motor & Pump P 1510 Chloride Injection P	43.0	36.4	36.4	36.4	
Motor & Pump P 1601 A	38.6	31.9	31.9	31.9	
Motor & Pump P 1601 B	34.3	27.6	27.6	27.6	
Motor & Pump P 1602 A	30.7	24.0	24.0	24.0	
Motor & Pump P 1602 B	30.2	23.6	23.6	23.6	
Motor & Pump P 211/212	48.2	41.6	41.6	41.6	
Motor & Pump P 215/214	49.0	42.3	42.3	42.3	
Motor & Pump P 216	52.6	45.9	45.9	45.9	
Motor & Pump P 217/218	48.1	41.4	41.4	41.4	
Motor & Pump P 300	41.3	34.6	34.6	34.6	
Motor & Pump P 301	47.3	40.6	40.6	40.6	
Motor & Pump P 302	39.9	33.2	33.2	33.2	
Motor & Pump P 303	39.6	32.9	32.9	32.9	
Motor & Pump P 305	39.3	32.6	32.6	32.6	
Motor & Pump P 306	53.5	46.9	46.9	46.9	
Motor & Pump P 307	49.9	43.3	43.3	43.3	
Motor & Pump P 309	38.7	32.0	32.0	32.0	
Motor & Pump P 312	53.5	46.8	46.8	46.8	
Motor & Pump P 313	53.6	46.9	46.9	46.9	
Motor & Pump P 315	55.4	48.7	48.7	48.7	
Motor & Pump P 316	55.3	48.6	48.6	48.6	
Motor & Pump P 317	55.2	48.6	48.6	48.6	
Motor & Pump P 318	52.6	45.9	45.9	45.9	
Motor & Pump P 319	52.4	45.8	45.8	45.8	
Motor & Pump P 327	42.7	36.0	36.0	36.0	
Motor & Pump P 328	52.9	46.2	46.2	46.2	
Motor & Pump P 329	51.5	44.9	44.9	44.9	
Motor & Pump P 451	41.9	35.2	35.2	35.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 453	49.4	42.7	42.7	42.7	
Motor & Pump P 454	45.2	38.5	38.5	38.5	
Motor & Pump P 457	49.5	42.8	42.8	42.8	
Motor & Pump P 458	41.4	34.7	34.7	34.7	
Motor & Pump P 459	45.2	38.6	38.6	38.6	
Motor & Pump P 56A/B	41.6	34.9	34.9	34.9	
Rail Cars Bumping 6 times in during delivery	47.0	50.0			
Somerset Ave EB	37.6	36.1	34.4	28.5	
Somerset Ave WB	36.9	35.4	33.7	27.8	
Tank Farm Pump 1	44.1	37.4	37.4	37.4	
Tank Farm Pump 2	41.5	34.8	34.8	34.8	
Tank Farm Pump 3	41.0	34.3	34.3	34.3	
UP Train Locomotive Delivery and Pickup	42.7	45.7			
XF-1502 Splitter Area 1	52.4	45.7	45.7	45.7	
XF-1502 Splitter Area 2	52.6	45.9	45.9	45.9	
XF-1504 Splitter Area 1	48.4	41.7	41.7	41.7	
XF-1504 Splitter Area 2	48.2	41.5	41.5	41.5	
XF - 1601	46.9	40.2	40.2	40.2	
XF - 1602	47.1	40.4	40.4	40.4	
XF 304, XF 321	57.6	50.9	50.9	50.9	
XF 313, XF 314	54.4	47.7	47.7	47.7	
XF 335-1, XF 335-2	56.9	50.2	50.2	50.2	
XF 503	60.1	53.4	53.4	53.4	
XF Module 1510	56.4	49.8	49.8	49.8	
XF Module 1519	56.7	50.0	50.0	50.0	
Receiver SS-2 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 72.1 dB(A)	Ld 7-19 dB(A)	Leq,N 65.5 dB(A)	Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	48.5	51.5			
Air Compressor C 1	54.7	48.0	48.0	48.0	
Air Compressor Pump	38.2	31.6	31.6	31.6	
Blower F 401	57.3	50.6	50.6	50.6	
Boiler Crude Unit-Heater Opening	47.0	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House East 1	55.6	48.9	48.9	48.9	
Compressor House C301, C302, C 124-Comp House East 2	53.3	46.7	46.7	46.7	
Compressor House C301, C302, C 124-Comp House North	44.8	38.1	38.1	38.1	
Compressor House C301, C302, C 124-Comp House South 1	54.2	47.5	47.5	47.5	
Compressor House C301, C302, C 124-Comp House South 2	48.9	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House West	44.1	37.4	37.4	37.4	
Construciton Control Room Max Evening Night	59.3		53.1	53.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construciton Control Room Max Day	60.8	63.8			
Construction / Renewable Fuels Truck Tr	46.2	48.4	42.7	20.4	
Construction Demolition Warehouse Max Day	44.8	47.8			
Construction Demoltion Loading Racks Max Day	47.9	50.9			
Construction H2 Plant Max Day	63.8	66.8			
Construction H2 Plant Max Evening Night	62.3		56.1	56.1	
Construction PreTreat Building Max Day	57.5	60.5			
Construction PreTreat Building Max Evening Night	56.0		49.8	49.8	
Construction Unit A Construction Max Day	61.2	64.2			
Construction Unit B 2 Max Evening Night	62.6		56.5	56.5	
Construction Unit B Max Day	64.2	67.2			
Cooling Tower CT 510-CT 510 East Side	31.7	25.0	25.0	25.0	
Cooling Tower CT 510-CT 510 West Side	53.9	47.2	47.2	47.2	
Cooling Tower CT 511-CT 511 East Side	29.0	22.3	22.3	22.3	
Cooling Tower CT 511-CT 511 West Side	52.7	46.1	46.1	46.1	
Cooling Tower M 512	52.8	46.1	46.1	46.1	
Cooling Tower M 513	52.8	46.2	46.2	46.2	
Cooling Tower M 514	52.8	46.1	46.1	46.1	
Crude Operatoin Truck Truck Traffic	34.0	27.3	27.3	27.3	
Downey Ave NB	39.2	37.7	36.0	30.1	
Downey Ave SB	39.1	37.6	35.9	29.9	
Heater # 5-Heater	31.1	24.5	24.5	24.5	
Heater # 5-Heater	33.2	26.5	26.5	26.5	
Heater # 5-Heater	36.6	30.0	30.0	30.0	
Hydro Heater H-402	51.0	44.3	44.3	44.3	
Lakewood NB	29.7	28.2	26.4	20.5	
Lakewood SB	29.7	28.2	26.5	20.6	
Motor & Pump P - 1502 Splitter Reflux Pu	36.6	29.9	29.9	29.9	
Motor & Pump P - 1503 Splitter Bottoms P	40.8	34.1	34.1	34.1	
Motor & Pump P - 1504 Splitter Bottoms P	43.0	36.4	36.4	36.4	
Motor & Pump P - 1507 Reactor Pump	44.2	37.5	37.5	37.5	
Motor & Pump P - 1508 Reactor Pump	45.4	38.7	38.7	38.7	
Motor & Pump P - 1511 Stabilizer Reflux	37.7	31.0	31.0	31.0	
Motor & Pump P - 1512 Stabilizer Reflux	41.0	34.3	34.3	34.3	
Motor & Pump P - 1513 Caustic Circulatin	43.7	37.1	37.1	37.1	
Motor & Pump P - 1514 Caustic Circulatin	43.2	36.5	36.5	36.5	
Motor & Pump P 120/121	40.5	33.9	33.9	33.9	
Motor & Pump P 1505 FRESH FEED PUMPS	41.4	34.7	34.7	34.7	
Motor & Pump P 1506 FRESH FEED PUMPS	43.6	36.9	36.9	36.9	
Motor & Pump P 1509 Chloride Injection P	41.2	34.6	34.6	34.6	
Motor & Pump P 1510 Chloride Injection P	41.2	34.5	34.5	34.5	
Motor & Pump P 1601 A	40.2	33.6	33.6	33.6	
Motor & Pump P 1601 B	34.4	27.7	27.7	27.7	
Motor & Pump P 1602 A	30.9	24.2	24.2	24.2	
Motor & Pump P 1602 B	30.5	23.8	23.8	23.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 211/212	48.2	41.6	41.6	41.6	
Motor & Pump P 215/214	49.0	42.3	42.3	42.3	
Motor & Pump P 216	52.6	46.0	46.0	46.0	
Motor & Pump P 217/218	48.1	41.4	41.4	41.4	
Motor & Pump P 300	42.5	35.8	35.8	35.8	
Motor & Pump P 301	48.8	42.2	42.2	42.2	
Motor & Pump P 302	40.4	33.8	33.8	33.8	
Motor & Pump P 303	40.2	33.5	33.5	33.5	
Motor & Pump P 305	39.9	33.3	33.3	33.3	
Motor & Pump P 306	54.6	47.9	47.9	47.9	
Motor & Pump P 307	51.3	44.6	44.6	44.6	
Motor & Pump P 309	39.5	32.8	32.8	32.8	
Motor & Pump P 312	53.7	47.1	47.1	47.1	
Motor & Pump P 313	53.8	47.2	47.2	47.2	
Motor & Pump P 315	55.5	48.8	48.8	48.8	
Motor & Pump P 316	55.3	48.7	48.7	48.7	
Motor & Pump P 317	55.5	48.8	48.8	48.8	
Motor & Pump P 318	52.7	46.0	46.0	46.0	
Motor & Pump P 319	52.6	45.9	45.9	45.9	
Motor & Pump P 327	43.0	36.3	36.3	36.3	
Motor & Pump P 328	53.6	47.0	47.0	47.0	
Motor & Pump P 329	52.7	46.0	46.0	46.0	
Motor & Pump P 451	42.2	35.5	35.5	35.5	
Motor & Pump P 453	49.4	42.7	42.7	42.7	
Motor & Pump P 454	45.6	38.9	38.9	38.9	
Motor & Pump P 457	49.5	42.8	42.8	42.8	
Motor & Pump P 458	41.6	34.9	34.9	34.9	
Motor & Pump P 459	45.5	38.8	38.8	38.8	
Motor & Pump P 56A/B	41.1	34.5	34.5	34.5	
Rail Cars Bumping 6 times in during delivery	47.1	50.1			
Somerset Ave EB	38.8	37.3	35.6	29.6	
Somerset Ave WB	38.1	36.6	34.9	29.0	
Tank Farm Pump 1	41.0	34.3	34.3	34.3	
Tank Farm Pump 2	42.1	35.5	35.5	35.5	
Tank Farm Pump 3	41.3	34.6	34.6	34.6	
UP Train Locomotive Delivery and Pickup	42.5	45.5			
XF-1502 Splitter Area 1	52.5	45.9	45.9	45.9	
XF-1502 Splitter Area 2	52.7	46.1	46.1	46.1	
XF-1504 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1504 Splitter Area 2	48.3	41.6	41.6	41.6	
XF - 1601	47.2	40.6	40.6	40.6	
XF - 1602	47.2	40.5	40.5	40.5	
XF 304, XF 321	58.8	52.1	52.1	52.1	
XF 313, XF 314	53.8	47.2	47.2	47.2	
XF 335-1, XF 335-2	58.5	51.8	51.8	51.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 503	60.5	53.8	53.8	53.8	
XF Module 1510	56.7	50.0	50.0	50.0	
XF Module 1519	57.0	50.3	50.3	50.3	
Receiver SS-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.7 dB(A) Ld 7-19 dB(A) Leq,N 64.0 dB(A) Le 19-2					
2011 Track Mobile switch moving rail cars 33 cars per day	48.6	51.6			
Air Compressor C 1	51.4	44.7	44.7	44.7	
Air Compressor Pump	43.7	37.1	37.1	37.1	
Blower F 401	55.2	48.5	48.5	48.5	
Boiler Crude Unit-Heater Opening	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House East 1	52.8	46.2	46.2	46.2	
Compressor House C301, C302, C 124-Comp House East 2	51.4	44.7	44.7	44.7	
Compressor House C301, C302, C 124-Comp House North	42.2	35.5	35.5	35.5	
Compressor House C301, C302, C 124-Comp House South 1	52.4	45.7	45.7	45.7	
Compressor House C301, C302, C 124-Comp House South 2	46.9	40.2	40.2	40.2	
Compressor House C301, C302, C 124-Comp House West	36.6	29.9	29.9	29.9	
Construciton Control Room Max Evening Night	60.6		54.4	54.4	
Construciton Control Room Max Day	62.1	65.1			
Construction / Renewable Fuels Truck Tr	46.3	48.5	42.8	19.6	
Construction Demolition Warehouse Max Day	43.6	46.6			
Construction Demoltion Loading Racks Max Day	46.9	49.9			
Construction H2 Plant Max Day	63.4	66.4			
Construction H2 Plant Max Evening Night	61.9		55.7	55.7	
Construction PreTreat Building Max Day	56.9	59.9			
Construction PreTreat Building Max Evening Night	55.3		49.2	49.2	
Construction Unit A Construction Max Day	58.5	61.5			
Construction Unit B 2 Max Evening Night	63.2		57.0	57.0	
Construction Unit B Max Day	64.7	67.7			
Cooling Tower CT 510-CT 510 East Side	33.4	26.8	26.8	26.8	
Cooling Tower CT 510-CT 510 West Side	52.5	45.8	45.8	45.8	
Cooling Tower CT 511-CT 511 East Side	30.8	24.1	24.1	24.1	
Cooling Tower CT 511-CT 511 West Side	55.4	48.8	48.8	48.8	
Cooling Tower M 512	44.5	37.8	37.8	37.8	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	41.4	34.7	34.7	34.7	
Crude Operatoin Truck Truck Traffic	34.5	27.8	27.8	27.8	
Downey Ave NB	36.2	34.7	33.0	27.0	
Downey Ave SB	36.2	34.6	32.9	27.0	
Heater # 5-Heater	31.7	25.1	25.1	25.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	33.6	27.0	27.0	27.0	
Heater # 5-Heater	37.2	30.5	30.5	30.5	
Hydro Heater H-402	49.3	42.7	42.7	42.7	
Lakewood NB	29.6	28.1	26.4	20.5	
Lakewood SB	29.3	27.8	26.1	20.1	
Motor & Pump P - 1502 Splitter Reflux Pu	36.8	30.2	30.2	30.2	
Motor & Pump P - 1503 Splitter Bottoms P	38.3	31.6	31.6	31.6	
Motor & Pump P - 1504 Splitter Bottoms P	38.9	32.2	32.2	32.2	
Motor & Pump P - 1507 Reactor Pump	44.7	38.0	38.0	38.0	
Motor & Pump P - 1508 Reactor Pump	44.9	38.3	38.3	38.3	
Motor & Pump P - 1511 Stabilizer Reflux	31.7	25.1	25.1	25.1	
Motor & Pump P - 1512 Stabilizer Reflux	35.8	29.1	29.1	29.1	
Motor & Pump P - 1513 Caustic Circulatin	38.8	32.2	32.2	32.2	
Motor & Pump P - 1514 Caustic Circulatin	36.9	30.2	30.2	30.2	
Motor & Pump P 120/121	34.0	27.3	27.3	27.3	
Motor & Pump P 1505 FRESH FEED PUMPS	40.4	33.7	33.7	33.7	
Motor & Pump P 1506 FRESH FEED PUMPS	42.0	35.3	35.3	35.3	
Motor & Pump P 1509 Chloride Injection P	41.2	34.6	34.6	34.6	
Motor & Pump P 1510 Chloride Injection P	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 A	31.7	25.0	25.0	25.0	
Motor & Pump P 1601 B	35.8	29.2	29.2	29.2	
Motor & Pump P 1602 A	33.8	27.1	27.1	27.1	
Motor & Pump P 1602 B	32.2	25.6	25.6	25.6	
Motor & Pump P 211/212	42.4	35.8	35.8	35.8	
Motor & Pump P 215/214	41.6	34.9	34.9	34.9	
Motor & Pump P 216	51.3	44.6	44.6	44.6	
Motor & Pump P 217/218	42.4	35.7	35.7	35.7	
Motor & Pump P 300	31.9	25.2	25.2	25.2	
Motor & Pump P 301	37.3	30.6	30.6	30.6	
Motor & Pump P 302	31.4	24.7	24.7	24.7	
Motor & Pump P 303	32.1	25.4	25.4	25.4	
Motor & Pump P 305	32.4	25.7	25.7	25.7	
Motor & Pump P 306	48.5	41.8	41.8	41.8	
Motor & Pump P 307	44.9	38.3	38.3	38.3	
Motor & Pump P 309	32.8	26.1	26.1	26.1	
Motor & Pump P 312	48.6	42.0	42.0	42.0	
Motor & Pump P 313	48.7	42.1	42.1	42.1	
Motor & Pump P 315	51.4	44.8	44.8	44.8	
Motor & Pump P 316	51.0	44.4	44.4	44.4	
Motor & Pump P 317	50.6	43.9	43.9	43.9	
Motor & Pump P 318	47.9	41.3	41.3	41.3	
Motor & Pump P 319	47.3	40.7	40.7	40.7	
Motor & Pump P 327	41.3	34.6	34.6	34.6	
Motor & Pump P 328	45.7	39.0	39.0	39.0	
Motor & Pump P 329	45.7	39.0	39.0	39.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 451	41.1	34.4	34.4	34.4	
Motor & Pump P 453	48.2	41.5	41.5	41.5	
Motor & Pump P 454	47.5	40.8	40.8	40.8	
Motor & Pump P 457	48.3	41.6	41.6	41.6	
Motor & Pump P 458	43.3	36.6	36.6	36.6	
Motor & Pump P 459	47.4	40.8	40.8	40.8	
Motor & Pump P 56A/B	37.3	30.6	30.6	30.6	
Rail Cars Bumping 6 times in during delivery	46.2	49.2			
Somerset Ave EB	36.5	34.9	33.2	27.3	
Somerset Ave WB	35.7	34.1	32.4	26.5	
Tank Farm Pump 1	43.7	37.1	37.1	37.1	
Tank Farm Pump 2	41.3	34.6	34.6	34.6	
Tank Farm Pump 3	41.1	34.5	34.5	34.5	
UP Train Locomotive Delivery and Pickup	42.3	45.3			
XF-1502 Splitter Area 1	51.2	44.5	44.5	44.5	
XF-1502 Splitter Area 2	51.6	44.9	44.9	44.9	
XF-1504 Splitter Area 1	39.7	33.0	33.0	33.0	
XF-1504 Splitter Area 2	48.8	42.1	42.1	42.1	
XF - 1601	42.3	35.7	35.7	35.7	
XF - 1602	41.6	34.9	34.9	34.9	
XF 304, XF 321	54.4	47.8	47.8	47.8	
XF 313, XF 314	51.7	45.0	45.0	45.0	
XF 335-1, XF 335-2	54.8	48.2	48.2	48.2	
XF 503	57.8	51.2	51.2	51.2	
XF Module 1510	55.6	48.9	48.9	48.9	
XF Module 1519	55.9	49.2	49.2	49.2	
Receiver SS-3 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.0 dB(A) Ld 7-19 dB(A) Leq,N 64.6 dB(A) Le 19					
2011 Track Mobile switch moving rail cars 33 cars per day	48.6	51.6			
Air Compressor C 1	52.7	46.1	46.1	46.1	
Air Compressor Pump	45.4	38.8	38.8	38.8	
Blower F 401	56.2	49.5	49.5	49.5	
Boiler Crude Unit-Heater Opening	47.4	40.7	40.7	40.7	
Compressor House C301, C302, C 124-Comp House East 1	54.0	47.4	47.4	47.4	
Compressor House C301, C302, C 124-Comp House East 2	52.0	45.4	45.4	45.4	
Compressor House C301, C302, C 124-Comp House North	43.6	36.9	36.9	36.9	
Compressor House C301, C302, C 124-Comp House South 1	53.2	46.5	46.5	46.5	
Compressor House C301, C302, C 124-Comp House South 2	47.9	41.2	41.2	41.2	
Compressor House C301, C302, C 124-Comp House West	37.2	30.5	30.5	30.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construciton Control Room Max Evening Night	60.3		54.1	54.1	
Construciton Control Room Max Day	61.8	64.8			
Construction / Renewable Fuels Truck Tr	46.4	48.5	42.9	18.7	
Construction Demolition Warehouse Max Day	44.8	47.8			
Construction Demoltion Loading Racks Max Day	47.9	51.0			
Construction H2 Plant Max Day	63.7	66.7			
Construction H2 Plant Max Evening Night	62.1		56.0	56.0	
Construction PreTreat Building Max Day	57.7	60.7			
Construction PreTreat Building Max Evening Night	56.2		50.0	50.0	
Construction Unit A Construction Max Day	59.0	62.0			
Construction Unit B 2 Max Evening Night	63.4		57.3	57.3	
Construction Unit B Max Day	65.0	68.0			
Cooling Tower CT 510-CT 510 East Side	34.9	28.2	28.2	28.2	
Cooling Tower CT 510-CT 510 West Side	52.9	46.2	46.2	46.2	
Cooling Tower CT 511-CT 511 East Side	31.6	24.9	24.9	24.9	
Cooling Tower CT 511-CT 511 West Side	56.4	49.7	49.7	49.7	
Cooling Tower M 512	44.5	37.8	37.8	37.8	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	41.5	34.8	34.8	34.8	
Crude Operatoin Truck Truck Traffic	34.2	27.6	27.6	27.6	
Downey Ave NB	37.4	35.9	34.1	28.2	
Downey Ave SB	37.3	35.8	34.1	28.2	
Heater # 5-Heater	32.6	25.9	25.9	25.9	
Heater # 5-Heater	34.5	27.8	27.8	27.8	
Heater # 5-Heater	37.6	31.0	31.0	31.0	
Hydro Heater H-402	50.4	43.8	43.8	43.8	
Lakewood NB	29.4	27.9	26.2	20.3	
Lakewood SB	29.5	28.0	26.3	20.4	
Motor & Pump P - 1502 Splitter Reflux Pu	37.6	30.9	30.9	30.9	
Motor & Pump P - 1503 Splitter Bottoms P	39.0	32.3	32.3	32.3	
Motor & Pump P - 1504 Splitter Bottoms P	39.5	32.9	32.9	32.9	
Motor & Pump P - 1507 Reactor Pump	44.4	37.7	37.7	37.7	
Motor & Pump P - 1508 Reactor Pump	44.6	38.0	38.0	38.0	
Motor & Pump P - 1511 Stabilizer Reflux	31.2	24.6	24.6	24.6	
Motor & Pump P - 1512 Stabilizer Reflux	37.6	30.9	30.9	30.9	
Motor & Pump P - 1513 Caustic Circulatin	39.6	33.0	33.0	33.0	
Motor & Pump P - 1514 Caustic Circulatin	38.3	31.6	31.6	31.6	
Motor & Pump P 120/121	34.2	27.5	27.5	27.5	
Motor & Pump P 1505 FRESH FEED PUMPS	40.3	33.6	33.6	33.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.8	35.2	35.2	35.2	
Motor & Pump P 1509 Chloride Injection P	41.5	34.9	34.9	34.9	
Motor & Pump P 1510 Chloride Injection P	41.6	34.9	34.9	34.9	
Motor & Pump P 1601 A	31.9	25.2	25.2	25.2	
Motor & Pump P 1601 B	35.9	29.3	29.3	29.3	
Motor & Pump P 1602 A	33.9	27.2	27.2	27.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1602 B	32.4	25.7	25.7	25.7	
Motor & Pump P 211/212	42.8	36.1	36.1	36.1	
Motor & Pump P 215/214	42.0	35.4	35.4	35.4	
Motor & Pump P 216	51.5	44.8	44.8	44.8	
Motor & Pump P 217/218	42.3	35.6	35.6	35.6	
Motor & Pump P 300	31.6	25.0	25.0	25.0	
Motor & Pump P 301	37.0	30.3	30.3	30.3	
Motor & Pump P 302	31.2	24.5	24.5	24.5	
Motor & Pump P 303	31.8	25.2	25.2	25.2	
Motor & Pump P 305	32.2	25.5	25.5	25.5	
Motor & Pump P 306	48.8	42.1	42.1	42.1	
Motor & Pump P 307	44.9	38.2	38.2	38.2	
Motor & Pump P 309	32.6	25.9	25.9	25.9	
Motor & Pump P 312	50.0	43.4	43.4	43.4	
Motor & Pump P 313	50.1	43.5	43.5	43.5	
Motor & Pump P 315	51.8	45.1	45.1	45.1	
Motor & Pump P 316	51.4	44.7	44.7	44.7	
Motor & Pump P 317	51.0	44.3	44.3	44.3	
Motor & Pump P 318	49.0	42.3	42.3	42.3	
Motor & Pump P 319	48.8	42.1	42.1	42.1	
Motor & Pump P 327	41.7	35.1	35.1	35.1	
Motor & Pump P 328	45.5	38.9	38.9	38.9	
Motor & Pump P 329	45.5	38.8	38.8	38.8	
Motor & Pump P 451	41.4	34.8	34.8	34.8	
Motor & Pump P 453	48.5	41.8	41.8	41.8	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	48.6	41.9	41.9	41.9	
Motor & Pump P 458	43.6	36.9	36.9	36.9	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	37.4	30.7	30.7	30.7	
Rail Cars Bumping 6 times in during delivery	46.8	49.8			
Somerset Ave EB	37.9	36.4	34.7	28.8	
Somerset Ave WB	37.0	35.5	33.7	27.8	
Tank Farm Pump 1	45.2	38.5	38.5	38.5	
Tank Farm Pump 2	41.5	34.8	34.8	34.8	
Tank Farm Pump 3	41.3	34.6	34.6	34.6	
UP Train Locomotive Delivery and Pickup	42.4	45.4			
XF-1502 Splitter Area 1	52.0	45.3	45.3	45.3	
XF-1502 Splitter Area 2	52.2	45.5	45.5	45.5	
XF-1504 Splitter Area 1	48.4	41.8	41.8	41.8	
XF-1504 Splitter Area 2	47.7	41.0	41.0	41.0	
XF - 1601	45.0	38.3	38.3	38.3	
XF - 1602	44.5	37.8	37.8	37.8	
XF 304, XF 321	56.5	49.8	49.8	49.8	
XF 313, XF 314	52.8	46.2	46.2	46.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	57.0	50.3	50.3	50.3	
XF 503	59.2	52.6	52.6	52.6	
XF Module 1510	56.1	49.5	49.5	49.5	
XF Module 1519	56.4	49.8	49.8	49.8	
Receiver SS-3 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 72.1 dB(A)		Ld 7-19 dB(A)	Leq,N 65.0 dB(A) Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	48.6	51.6			
Air Compressor C 1	53.9	47.2	47.2	47.2	
Air Compressor Pump	47.0	40.4	40.4	40.4	
Blower F 401	56.5	49.9	49.9	49.9	
Boiler Crude Unit-Heater Opening	47.7	41.0	41.0	41.0	
Compressor House C301, C302, C 124-Comp House East 1	54.5	47.8	47.8	47.8	
Compressor House C301, C302, C 124-Comp House East 2	52.1	45.4	45.4	45.4	
Compressor House C301, C302, C 124-Comp House North	45.6	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House South 1	53.3	46.6	46.6	46.6	
Compressor House C301, C302, C 124-Comp House South 2	48.2	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House West	37.3	30.6	30.6	30.6	
Construciton Control Room Max Evening Night	60.3		54.1	54.1	
Construciton Control Room Max Day	61.8	64.8			
Construction / Renewable Fuels Truck Tr	46.8	49.0	43.3	18.8	
Construction Demolition Warehouse Max Day	45.0	48.0			
Construction Demoltion Loading Racks Max Day	48.2	51.2			
Construction H2 Plant Max Day	63.9	66.9			
Construction H2 Plant Max Evening Night	62.4		56.2	56.2	
Construction PreTreat Building Max Day	57.7	60.7			
Construction PreTreat Building Max Evening Night	56.2		50.0	50.0	
Construction Unit A Construction Max Day	59.5	62.5			
Construction Unit B 2 Max Evening Night	63.5		57.3	57.3	
Construction Unit B Max Day	65.0	68.0			
Cooling Tower CT 510-CT 510 East Side	35.7	29.1	29.1	29.1	
Cooling Tower CT 510-CT 510 West Side	52.9	46.2	46.2	46.2	
Cooling Tower CT 511-CT 511 East Side	31.9	25.2	25.2	25.2	
Cooling Tower CT 511-CT 511 West Side	56.8	50.1	50.1	50.1	
Cooling Tower M 512	44.8	38.2	38.2	38.2	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	42.2	35.5	35.5	35.5	
Crude Operatoin Truck Truck Traffic	34.3	27.6	27.6	27.6	
Downey Ave NB	38.6	37.1	35.4	29.5	
Downey Ave SB	38.5	37.0	35.3	29.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	32.7	26.0	26.0	26.0	
Heater # 5-Heater	34.6	27.9	27.9	27.9	
Heater # 5-Heater	37.8	31.1	31.1	31.1	
Hydro Heater H-402	50.7	44.0	44.0	44.0	
Lakewood NB	30.0	28.5	26.8	20.9	
Lakewood SB	29.9	28.4	26.7	20.8	
Motor & Pump P - 1502 Splitter Reflux Pu	37.8	31.1	31.1	31.1	
Motor & Pump P - 1503 Splitter Bottoms P	39.3	32.6	32.6	32.6	
Motor & Pump P - 1504 Splitter Bottoms P	39.9	33.2	33.2	33.2	
Motor & Pump P - 1507 Reactor Pump	44.5	37.8	37.8	37.8	
Motor & Pump P - 1508 Reactor Pump	44.7	38.0	38.0	38.0	
Motor & Pump P - 1511 Stabilizer Reflux	31.3	24.6	24.6	24.6	
Motor & Pump P - 1512 Stabilizer Reflux	38.3	31.6	31.6	31.6	
Motor & Pump P - 1513 Caustic Circulatin	40.1	33.4	33.4	33.4	
Motor & Pump P - 1514 Caustic Circulatin	38.9	32.2	32.2	32.2	
Motor & Pump P 120/121	36.5	29.9	29.9	29.9	
Motor & Pump P 1505 FRESH FEED PUMPS	40.3	33.6	33.6	33.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.9	35.2	35.2	35.2	
Motor & Pump P 1509 Chloride Injection P	42.1	35.4	35.4	35.4	
Motor & Pump P 1510 Chloride Injection P	42.1	35.5	35.5	35.5	
Motor & Pump P 1601 A	40.2	33.5	33.5	33.5	
Motor & Pump P 1601 B	36.0	29.3	29.3	29.3	
Motor & Pump P 1602 A	34.0	27.3	27.3	27.3	
Motor & Pump P 1602 B	32.5	25.9	25.9	25.9	
Motor & Pump P 211/212	42.9	36.2	36.2	36.2	
Motor & Pump P 215/214	42.5	35.8	35.8	35.8	
Motor & Pump P 216	51.5	44.8	44.8	44.8	
Motor & Pump P 217/218	42.4	35.8	35.8	35.8	
Motor & Pump P 300	39.1	32.4	32.4	32.4	
Motor & Pump P 301	44.9	38.3	38.3	38.3	
Motor & Pump P 302	38.3	31.6	31.6	31.6	
Motor & Pump P 303	38.1	31.4	31.4	31.4	
Motor & Pump P 305	38.2	31.5	31.5	31.5	
Motor & Pump P 306	52.3	45.6	45.6	45.6	
Motor & Pump P 307	46.9	40.2	40.2	40.2	
Motor & Pump P 309	37.8	31.2	31.2	31.2	
Motor & Pump P 312	50.2	43.5	43.5	43.5	
Motor & Pump P 313	50.3	43.6	43.6	43.6	
Motor & Pump P 315	51.8	45.1	45.1	45.1	
Motor & Pump P 316	51.6	44.9	44.9	44.9	
Motor & Pump P 317	51.4	44.7	44.7	44.7	
Motor & Pump P 318	49.1	42.4	42.4	42.4	
Motor & Pump P 319	49.0	42.4	42.4	42.4	
Motor & Pump P 327	42.2	35.5	35.5	35.5	
Motor & Pump P 328	50.3	43.6	43.6	43.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 329	49.6	43.0	43.0	43.0	
Motor & Pump P 451	41.6	34.9	34.9	34.9	
Motor & Pump P 453	48.5	41.8	41.8	41.8	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	48.6	41.9	41.9	41.9	
Motor & Pump P 458	43.6	37.0	37.0	37.0	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	40.6	33.9	33.9	33.9	
Rail Cars Bumping 6 times in during delivery	46.9	49.9			
Somerset Ave EB	38.9	37.4	35.7	29.8	
Somerset Ave WB	38.1	36.6	34.9	29.0	
Tank Farm Pump 1	45.0	38.3	38.3	38.3	
Tank Farm Pump 2	41.7	35.1	35.1	35.1	
Tank Farm Pump 3	41.5	34.8	34.8	34.8	
UP Train Locomotive Delivery and Pickup	42.3	45.3			
XF-1502 Splitter Area 1	52.0	45.4	45.4	45.4	
XF-1502 Splitter Area 2	52.2	45.6	45.6	45.6	
XF-1504 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1504 Splitter Area 2	50.5	43.8	43.8	43.8	
XF - 1601	46.4	39.7	39.7	39.7	
XF - 1602	45.9	39.2	39.2	39.2	
XF 304, XF 321	58.2	51.5	51.5	51.5	
XF 313, XF 314	53.5	46.8	46.8	46.8	
XF 335-1, XF 335-2	58.0	51.3	51.3	51.3	
XF 503	59.6	52.9	52.9	52.9	
XF Module 1510	56.2	49.5	49.5	49.5	
XF Module 1519	56.5	49.8	49.8	49.8	
Receiver SS-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.9 dB(A) Ld 7-19 dB(A) Leq,N 63.2 dB(A) Le 19-2					
2011 Track Mobile switch moving rail cars 33 cars per day	48.6	51.6			
Air Compressor C 1	54.5	47.9	47.9	47.9	
Air Compressor Pump	44.2	37.5	37.5	37.5	
Blower F 401	53.1	46.4	46.4	46.4	
Boiler Crude Unit-Heater Opening	47.4	40.7	40.7	40.7	
Compressor House C301, C302, C 124-Comp House East 1	47.9	41.2	41.2	41.2	
Compressor House C301, C302, C 124-Comp House East 2	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House North	41.2	34.5	34.5	34.5	
Compressor House C301, C302, C 124-Comp House South 1	50.6	44.0	44.0	44.0	
Compressor House C301, C302, C 124-Comp House South 2	42.5	35.9	35.9	35.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	28.7	22.0	22.0	22.0	
Construciton Control Room Max Evening Night	61.8		55.6	55.6	
Construciton Control Room Max Day	63.3	66.3			
Construction / Renewable Fuels Truck Tr	47.6	49.8	44.1	15.2	
Construction Demolition Warehouse Max Day	43.2	46.2			
Construction Demoltion Loading Racks Max Day	46.7	49.7			
Construction H2 Plant Max Day	62.4	65.4			
Construction H2 Plant Max Evening Night	60.9		54.7	54.7	
Construction PreTreat Building Max Day	57.5	60.5			
Construction PreTreat Building Max Evening Night	56.0		49.8	49.8	
Construction Unit A Construction Max Day	55.8	58.8			
Construction Unit B 2 Max Evening Night	64.4		58.3	58.3	
Construction Unit B Max Day	66.0	69.0			
Cooling Tower CT 510-CT 510 East Side	41.9	35.2	35.2	35.2	
Cooling Tower CT 510-CT 510 West Side	32.6	26.0	26.0	26.0	
Cooling Tower CT 511-CT 511 East Side	45.7	39.1	39.1	39.1	
Cooling Tower CT 511-CT 511 West Side	36.3	29.7	29.7	29.7	
Cooling Tower M 512	34.4	27.7	27.7	27.7	
Cooling Tower M 513	35.4	28.7	28.7	28.7	
Cooling Tower M 514	34.8	28.1	28.1	28.1	
Crude Operatoin Truck Truck Traffic	33.7	27.0	27.0	27.0	
Downey Ave NB	33.1	31.6	29.8	23.9	
Downey Ave SB	32.9	31.4	29.7	23.8	
Heater # 5-Heater	35.5	28.8	28.8	28.8	
Heater # 5-Heater	36.9	30.3	30.3	30.3	
Heater # 5-Heater	39.4	32.7	32.7	32.7	
Hydro Heater H-402	45.4	38.7	38.7	38.7	
Lakewood NB	29.9	28.4	26.7	20.8	
Lakewood SB	29.9	28.4	26.7	20.8	
Motor & Pump P - 1502 Splitter Reflux Pu	30.0	23.3	23.3	23.3	
Motor & Pump P - 1503 Splitter Bottoms P	30.8	24.1	24.1	24.1	
Motor & Pump P - 1504 Splitter Bottoms P	31.1	24.5	24.5	24.5	
Motor & Pump P - 1507 Reactor Pump	36.5	29.8	29.8	29.8	
Motor & Pump P - 1508 Reactor Pump	36.1	29.5	29.5	29.5	
Motor & Pump P - 1511 Stabilizer Reflux	35.5	28.8	28.8	28.8	
Motor & Pump P - 1512 Stabilizer Reflux	29.2	22.5	22.5	22.5	
Motor & Pump P - 1513 Caustic Circulatin	31.5	24.8	24.8	24.8	
Motor & Pump P - 1514 Caustic Circulatin	29.2	22.6	22.6	22.6	
Motor & Pump P 120/121	27.0	20.3	20.3	20.3	
Motor & Pump P 1505 FRESH FEED PUMPS	35.4	28.7	28.7	28.7	
Motor & Pump P 1506 FRESH FEED PUMPS	37.7	31.1	31.1	31.1	
Motor & Pump P 1509 Chloride Injection P	27.4	20.7	20.7	20.7	
Motor & Pump P 1510 Chloride Injection P	27.5	20.8	20.8	20.8	
Motor & Pump P 1601 A	27.6	20.9	20.9	20.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1601 B	27.5	20.8	20.8	20.8	
Motor & Pump P 1602 A	27.3	20.7	20.7	20.7	
Motor & Pump P 1602 B	29.8	23.2	23.2	23.2	
Motor & Pump P 211/212	37.4	30.7	30.7	30.7	
Motor & Pump P 215/214	34.7	28.0	28.0	28.0	
Motor & Pump P 216	45.3	38.6	38.6	38.6	
Motor & Pump P 217/218	36.9	30.2	30.2	30.2	
Motor & Pump P 300	29.8	23.1	23.1	23.1	
Motor & Pump P 301	34.5	27.8	27.8	27.8	
Motor & Pump P 302	30.6	23.9	23.9	23.9	
Motor & Pump P 303	31.0	24.3	24.3	24.3	
Motor & Pump P 305	32.1	25.4	25.4	25.4	
Motor & Pump P 306	47.2	40.5	40.5	40.5	
Motor & Pump P 307	38.5	31.8	31.8	31.8	
Motor & Pump P 309	32.8	26.1	26.1	26.1	
Motor & Pump P 312	48.8	42.1	42.1	42.1	
Motor & Pump P 313	48.5	41.8	41.8	41.8	
Motor & Pump P 315	49.5	42.9	42.9	42.9	
Motor & Pump P 316	49.8	43.1	43.1	43.1	
Motor & Pump P 317	50.0	43.3	43.3	43.3	
Motor & Pump P 318	46.8	40.1	40.1	40.1	
Motor & Pump P 319	46.9	40.2	40.2	40.2	
Motor & Pump P 327	42.9	36.3	36.3	36.3	
Motor & Pump P 328	43.7	37.0	37.0	37.0	
Motor & Pump P 329	44.1	37.4	37.4	37.4	
Motor & Pump P 451	36.8	30.1	30.1	30.1	
Motor & Pump P 453	40.3	33.7	33.7	33.7	
Motor & Pump P 454	40.3	33.6	33.6	33.6	
Motor & Pump P 457	39.6	32.9	32.9	32.9	
Motor & Pump P 458	39.7	33.0	33.0	33.0	
Motor & Pump P 459	40.5	33.9	33.9	33.9	
Motor & Pump P 56A/B	39.2	32.5	32.5	32.5	
Rail Cars Bumping 6 times in during delivery	45.7	48.7			
Somerset Ave EB	39.2	37.7	36.0	30.1	
Somerset Ave WB	38.9	37.4	35.7	29.7	
Tank Farm Pump 1	42.5	35.8	35.8	35.8	
Tank Farm Pump 2	41.9	35.2	35.2	35.2	
Tank Farm Pump 3	41.7	35.0	35.0	35.0	
UP Train Locomotive Delivery and Pickup	41.6	44.6			
XF-1502 Splitter Area 1	47.5	40.8	40.8	40.8	
XF-1502 Splitter Area 2	47.7	41.0	41.0	41.0	
XF-1504 Splitter Area 1	46.3	39.6	39.6	39.6	
XF-1504 Splitter Area 2	46.6	39.9	39.9	39.9	
XF - 1601	40.6	33.9	33.9	33.9	
XF - 1602	40.9	34.3	34.3	34.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 304, XF 321	52.5	45.8	45.8	45.8	
XF 313, XF 314	52.1	45.4	45.4	45.4	
XF 335-1, XF 335-2	53.1	46.4	46.4	46.4	
XF 503	55.7	49.0	49.0	49.0	
XF Module 1510	50.3	43.6	43.6	43.6	
XF Module 1519	50.8	44.1	44.1	44.1	
Receiver SS-4 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.4 dB(A) Ld 7-19 dB(A) Leq,N 64.0 dB(A) Le 19					
2011 Track Mobile switch moving rail cars 33 cars per day	48.7	51.7			
Air Compressor C 1	55.4	48.7	48.7	48.7	
Air Compressor Pump	45.6	38.9	38.9	38.9	
Blower F 401	54.9	48.2	48.2	48.2	
Boiler Crude Unit-Heater Opening	48.8	42.1	42.1	42.1	
Compressor House C301, C302, C 124-Comp House East 1	49.7	43.0	43.0	43.0	
Compressor House C301, C302, C 124-Comp House East 2	47.2	40.6	40.6	40.6	
Compressor House C301, C302, C 124-Comp House North	42.0	35.3	35.3	35.3	
Compressor House C301, C302, C 124-Comp House South 1	51.5	44.8	44.8	44.8	
Compressor House C301, C302, C 124-Comp House South 2	44.5	37.9	37.9	37.9	
Compressor House C301, C302, C 124-Comp House West	29.8	23.1	23.1	23.1	
Construciton Control Room Max Evening Night	61.9		55.7	55.7	
Construciton Control Room Max Day	63.4	66.4			
Construction / Renewable Fuels Truck Tr	47.7	49.9	44.3	15.0	
Construction Demolition Warehouse Max Day	44.9	47.9			
Construction Demoltion Loading Racks Max Day	47.9	50.9			
Construction H2 Plant Max Day	63.0	66.0			
Construction H2 Plant Max Evening Night	61.4		55.3	55.3	
Construction PreTreat Building Max Day	58.3	61.3			
Construction PreTreat Building Max Evening Night	56.8		50.6	50.6	
Construction Unit A Construction Max Day	56.1	59.1			
Construction Unit B 2 Max Evening Night	65.0		58.8	58.8	
Construction Unit B Max Day	66.5	69.5			
Cooling Tower CT 510-CT 510 East Side	43.5	36.8	36.8	36.8	
Cooling Tower CT 510-CT 510 West Side	35.1	28.4	28.4	28.4	
Cooling Tower CT 511-CT 511 East Side	46.4	39.7	39.7	39.7	
Cooling Tower CT 511-CT 511 West Side	37.5	30.9	30.9	30.9	
Cooling Tower M 512	34.6	27.9	27.9	27.9	
Cooling Tower M 513	35.6	29.0	29.0	29.0	
Cooling Tower M 514	34.9	28.3	28.3	28.3	
Crude Operatoin Truck Truck Traffic	33.8	27.1	27.1	27.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Downey Ave NB	34.3	32.8	31.1	25.1	
Downey Ave SB	34.1	32.6	30.9	25.0	
Heater # 5-Heater	36.4	29.7	29.7	29.7	
Heater # 5-Heater	37.8	31.1	31.1	31.1	
Heater # 5-Heater	39.9	33.2	33.2	33.2	
Hydro Heater H-402	46.3	39.7	39.7	39.7	
Lakewood NB	29.9	28.4	26.7	20.8	
Lakewood SB	29.9	28.4	26.7	20.8	
Motor & Pump P - 1502 Splitter Reflux Pu	30.0	23.3	23.3	23.3	
Motor & Pump P - 1503 Splitter Bottoms P	30.9	24.3	24.3	24.3	
Motor & Pump P - 1504 Splitter Bottoms P	31.3	24.7	24.7	24.7	
Motor & Pump P - 1507 Reactor Pump	36.5	29.8	29.8	29.8	
Motor & Pump P - 1508 Reactor Pump	36.3	29.6	29.6	29.6	
Motor & Pump P - 1511 Stabilizer Reflux	35.4	28.8	28.8	28.8	
Motor & Pump P - 1512 Stabilizer Reflux	29.7	23.0	23.0	23.0	
Motor & Pump P - 1513 Caustic Circulatin	31.8	25.1	25.1	25.1	
Motor & Pump P - 1514 Caustic Circulatin	29.7	23.1	23.1	23.1	
Motor & Pump P 120/121	27.3	20.6	20.6	20.6	
Motor & Pump P 1505 FRESH FEED PUMPS	35.1	28.4	28.4	28.4	
Motor & Pump P 1506 FRESH FEED PUMPS	37.4	30.7	30.7	30.7	
Motor & Pump P 1509 Chloride Injection P	27.8	21.1	21.1	21.1	
Motor & Pump P 1510 Chloride Injection P	27.9	21.2	21.2	21.2	
Motor & Pump P 1601 A	27.8	21.1	21.1	21.1	
Motor & Pump P 1601 B	27.6	21.0	21.0	21.0	
Motor & Pump P 1602 A	27.5	20.8	20.8	20.8	
Motor & Pump P 1602 B	29.8	23.2	23.2	23.2	
Motor & Pump P 211/212	38.4	31.7	31.7	31.7	
Motor & Pump P 215/214	37.7	31.0	31.0	31.0	
Motor & Pump P 216	45.3	38.6	38.6	38.6	
Motor & Pump P 217/218	37.5	30.8	30.8	30.8	
Motor & Pump P 300	30.0	23.4	23.4	23.4	
Motor & Pump P 301	34.7	28.1	28.1	28.1	
Motor & Pump P 302	31.2	24.5	24.5	24.5	
Motor & Pump P 303	31.8	25.1	25.1	25.1	
Motor & Pump P 305	32.8	26.1	26.1	26.1	
Motor & Pump P 306	48.9	42.2	42.2	42.2	
Motor & Pump P 307	38.7	32.0	32.0	32.0	
Motor & Pump P 309	33.3	26.6	26.6	26.6	
Motor & Pump P 312	49.1	42.5	42.5	42.5	
Motor & Pump P 313	48.9	42.2	42.2	42.2	
Motor & Pump P 315	50.0	43.3	43.3	43.3	
Motor & Pump P 316	50.3	43.6	43.6	43.6	
Motor & Pump P 317	50.4	43.8	43.8	43.8	
Motor & Pump P 318	47.3	40.6	40.6	40.6	
Motor & Pump P 319	47.4	40.7	40.7	40.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 327	43.4	36.8	36.8	36.8	
Motor & Pump P 328	44.7	38.0	38.0	38.0	
Motor & Pump P 329	45.0	38.4	38.4	38.4	
Motor & Pump P 451	36.9	30.2	30.2	30.2	
Motor & Pump P 453	41.5	34.8	34.8	34.8	
Motor & Pump P 454	39.9	33.3	33.3	33.3	
Motor & Pump P 457	40.9	34.2	34.2	34.2	
Motor & Pump P 458	39.7	33.0	33.0	33.0	
Motor & Pump P 459	40.2	33.6	33.6	33.6	
Motor & Pump P 56A/B	40.7	34.1	34.1	34.1	
Rail Cars Bumping 6 times in during delivery	46.5	49.5			
Somerset Ave EB	40.9	39.4	37.7	31.8	
Somerset Ave WB	40.2	38.7	37.0	31.1	
Tank Farm Pump 1	42.7	36.0	36.0	36.0	
Tank Farm Pump 2	42.0	35.3	35.3	35.3	
Tank Farm Pump 3	41.8	35.1	35.1	35.1	
UP Train Locomotive Delivery and Pickup	41.7	44.7			
XF-1502 Splitter Area 1	46.2	39.5	39.5	39.5	
XF-1502 Splitter Area 2	46.4	39.8	39.8	39.8	
XF-1504 Splitter Area 1	47.6	40.9	40.9	40.9	
XF-1504 Splitter Area 2	47.9	41.2	41.2	41.2	
XF - 1601	43.5	36.9	36.9	36.9	
XF - 1602	43.7	37.0	37.0	37.0	
XF 304, XF 321	55.6	48.9	48.9	48.9	
XF 313, XF 314	53.7	47.1	47.1	47.1	
XF 335-1, XF 335-2	55.5	48.8	48.8	48.8	
XF 503	57.4	50.8	50.8	50.8	
XF Module 1510	51.2	44.5	44.5	44.5	
XF Module 1519	51.6	45.0	45.0	45.0	
Receiver SS-4 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.5 dB(A) Ld 7-19 dB(A) Leq,N 64.2 dB(A) Le 19					
2011 Track Mobile switch moving rail cars 33 cars per day	48.7	51.7			
Air Compressor C 1	55.3	48.6	48.6	48.6	
Air Compressor Pump	47.1	40.4	40.4	40.4	
Blower F 401	55.3	48.6	48.6	48.6	
Boiler Crude Unit-Heater Opening	49.3	42.6	42.6	42.6	
Compressor House C301, C302, C 124-Comp House East 1	51.0	44.4	44.4	44.4	
Compressor House C301, C302, C 124-Comp House East 2	48.3	41.7	41.7	41.7	
Compressor House C301, C302, C 124-Comp House North	43.8	37.1	37.1	37.1	
Compressor House C301, C302, C 124-Comp House South 1	51.8	45.2	45.2	45.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 2	45.9	39.2	39.2	39.2	
Compressor House C301, C302, C 124-Comp House West	31.1	24.4	24.4	24.4	
Construciton Control Room Max Evening Night	61.9		55.7	55.7	
Construciton Control Room Max Day	63.4	66.4			
Construction / Renewable Fuels Truck Tr	48.0	50.1	44.5	15.2	
Construction Demolition Warehouse Max Day	45.3	48.3			
Construction Demoltion Loading Racks Max Day	48.3	51.3			
Construction H2 Plant Max Day	63.2	66.2			
Construction H2 Plant Max Evening Night	61.7		55.5	55.5	
Construction PreTreat Building Max Day	58.3	61.3			
Construction PreTreat Building Max Evening Night	56.8		50.6	50.6	
Construction Unit A Construction Max Day	57.0	60.0			
Construction Unit B 2 Max Evening Night	65.0		58.9	58.9	
Construction Unit B Max Day	66.5	69.6			
Cooling Tower CT 510-CT 510 East Side	44.5	37.8	37.8	37.8	
Cooling Tower CT 510-CT 510 West Side	36.5	29.8	29.8	29.8	
Cooling Tower CT 511-CT 511 East Side	46.4	39.7	39.7	39.7	
Cooling Tower CT 511-CT 511 West Side	37.9	31.2	31.2	31.2	
Cooling Tower M 512	37.9	31.3	31.3	31.3	
Cooling Tower M 513	37.8	31.1	31.1	31.1	
Cooling Tower M 514	39.9	33.2	33.2	33.2	
Crude Operatoin Truck Truck Traffic	33.9	27.2	27.2	27.2	
Downey Ave NB	35.8	34.3	32.6	26.7	
Downey Ave SB	35.7	34.2	32.5	26.6	
Heater # 5-Heater	36.6	29.9	29.9	29.9	
Heater # 5-Heater	38.0	31.3	31.3	31.3	
Heater # 5-Heater	40.2	33.5	33.5	33.5	
Hydro Heater H-402	46.5	39.8	39.8	39.8	
Lakewood NB	30.7	29.2	27.5	21.6	
Lakewood SB	30.6	29.1	27.4	21.4	
Motor & Pump P - 1502 Splitter Reflux Pu	31.8	25.1	25.1	25.1	
Motor & Pump P - 1503 Splitter Bottoms P	32.9	26.3	26.3	26.3	
Motor & Pump P - 1504 Splitter Bottoms P	33.4	26.7	26.7	26.7	
Motor & Pump P - 1507 Reactor Pump	42.4	35.7	35.7	35.7	
Motor & Pump P - 1508 Reactor Pump	42.3	35.6	35.6	35.6	
Motor & Pump P - 1511 Stabilizer Reflux	37.8	31.2	31.2	31.2	
Motor & Pump P - 1512 Stabilizer Reflux	30.5	23.8	23.8	23.8	
Motor & Pump P - 1513 Caustic Circulatin	34.1	27.4	27.4	27.4	
Motor & Pump P - 1514 Caustic Circulatin	30.6	23.9	23.9	23.9	
Motor & Pump P 120/121	28.7	22.0	22.0	22.0	
Motor & Pump P 1505 FRESH FEED PUMPS	38.4	31.7	31.7	31.7	
Motor & Pump P 1506 FRESH FEED PUMPS	41.3	34.6	34.6	34.6	
Motor & Pump P 1509 Chloride Injection P	28.1	21.4	21.4	21.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1510 Chloride Injection P	28.2	21.6	21.6	21.6	
Motor & Pump P 1601 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.0	21.3	21.3	21.3	
Motor & Pump P 1602 A	27.9	21.2	21.2	21.2	
Motor & Pump P 1602 B	29.3	22.6	22.6	22.6	
Motor & Pump P 211/212	39.4	32.8	32.8	32.8	
Motor & Pump P 215/214	38.6	31.9	31.9	31.9	
Motor & Pump P 216	45.8	39.1	39.1	39.1	
Motor & Pump P 217/218	38.6	31.9	31.9	31.9	
Motor & Pump P 300	29.2	22.6	22.6	22.6	
Motor & Pump P 301	34.2	27.5	27.5	27.5	
Motor & Pump P 302	31.2	24.5	24.5	24.5	
Motor & Pump P 303	32.3	25.7	25.7	25.7	
Motor & Pump P 305	33.1	26.4	26.4	26.4	
Motor & Pump P 306	49.3	42.6	42.6	42.6	
Motor & Pump P 307	38.7	32.0	32.0	32.0	
Motor & Pump P 309	33.2	26.6	26.6	26.6	
Motor & Pump P 312	49.2	42.5	42.5	42.5	
Motor & Pump P 313	49.0	42.3	42.3	42.3	
Motor & Pump P 315	50.1	43.4	43.4	43.4	
Motor & Pump P 316	50.2	43.5	43.5	43.5	
Motor & Pump P 317	50.3	43.7	43.7	43.7	
Motor & Pump P 318	47.4	40.7	40.7	40.7	
Motor & Pump P 319	47.5	40.8	40.8	40.8	
Motor & Pump P 327	43.1	36.4	36.4	36.4	
Motor & Pump P 328	45.3	38.6	38.6	38.6	
Motor & Pump P 329	45.8	39.1	39.1	39.1	
Motor & Pump P 451	37.1	30.5	30.5	30.5	
Motor & Pump P 453	42.0	35.3	35.3	35.3	
Motor & Pump P 454	40.0	33.3	33.3	33.3	
Motor & Pump P 457	41.4	34.7	34.7	34.7	
Motor & Pump P 458	39.7	33.1	33.1	33.1	
Motor & Pump P 459	40.3	33.7	33.7	33.7	
Motor & Pump P 56A/B	41.3	34.6	34.6	34.6	
Rail Cars Bumping 6 times in during delivery	46.7	49.7			
Somerset Ave EB	41.8	40.3	38.6	32.7	
Somerset Ave WB	41.1	39.6	37.9	32.0	
Tank Farm Pump 1	42.9	36.3	36.3	36.3	
Tank Farm Pump 2	42.0	35.3	35.3	35.3	
Tank Farm Pump 3	41.8	35.1	35.1	35.1	
UP Train Locomotive Delivery and Pickup	41.8	44.8			
XF-1502 Splitter Area 1	48.4	41.8	41.8	41.8	
XF-1502 Splitter Area 2	48.8	42.1	42.1	42.1	
XF-1504 Splitter Area 1	47.8	41.1	41.1	41.1	
XF-1504 Splitter Area 2	48.1	41.4	41.4	41.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF - 1601	44.9	38.2	38.2	38.2	
XF - 1602	45.0	38.3	38.3	38.3	
XF 304, XF 321	56.5	49.8	49.8	49.8	
XF 313, XF 314	54.5	47.9	47.9	47.9	
XF 335-1, XF 335-2	56.2	49.6	49.6	49.6	
XF 503	57.9	51.2	51.2	51.2	
XF Module 1510	50.5	43.9	43.9	43.9	
XF Module 1519	50.8	44.2	44.2	44.2	
Receiver SS-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 72.5 dB(A)	Ld 7-19 dB(A)	Leq,N 63.7 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	47.5	50.5			
Air Compressor C 1	55.9	49.3	49.3	49.3	
Air Compressor Pump	41.3	34.7	34.7	34.7	
Blower F 401	57.2	50.5	50.5	50.5	
Boiler Crude Unit-Heater Opening	46.5	39.8	39.8	39.8	
Compressor House C301, C302, C 124-Comp House East 1	45.9	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House East 2	44.1	37.5	37.5	37.5	
Compressor House C301, C302, C 124-Comp House North	41.7	35.1	35.1	35.1	
Compressor House C301, C302, C 124-Comp House South 1	48.7	42.1	42.1	42.1	
Compressor House C301, C302, C 124-Comp House South 2	43.8	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House West	25.3	18.6	18.6	18.6	
Construciton Control Room Max Evening Night	62.8		56.6	56.6	
Construciton Control Room Max Day	64.3	67.3			
Construction / Renewable Fuels Truck Tr	47.6	49.7	44.1	18.1	
Construction Demolition Warehouse Max Day	42.5	45.5			
Construction Demoltion Loading Racks Max Day	49.5	52.5			
Construction H2 Plant Max Day	60.1	63.1			
Construction H2 Plant Max Evening Night	58.6		52.4	52.4	
Construction PreTreat Building Max Day	58.7	61.7			
Construction PreTreat Building Max Evening Night	57.1		51.0	51.0	
Construction Unit A Construction Max Day	53.5	56.5			
Construction Unit B 2 Max Evening Night	65.9		59.7	59.7	
Construction Unit B Max Day	67.4	70.4			
Cooling Tower CT 510-CT 510 East Side	39.6	32.9	32.9	32.9	
Cooling Tower CT 510-CT 510 West Side	24.0	17.3	17.3	17.3	
Cooling Tower CT 511-CT 511 East Side	54.6	47.9	47.9	47.9	
Cooling Tower CT 511-CT 511 West Side	26.7	20.0	20.0	20.0	
Cooling Tower M 512	32.4	25.7	25.7	25.7	
Cooling Tower M 513	33.4	26.7	26.7	26.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	31.7	25.0	25.0	25.0	
Crude Operatoin Truck Truck Traffic	31.0	24.3	24.3	24.3	
Downey Ave NB	31.1	29.6	27.9	22.0	
Downey Ave SB	31.1	29.6	27.9	21.9	
Heater # 5-Heater	46.2	39.6	39.6	39.6	
Heater # 5-Heater	46.2	39.5	39.5	39.5	
Heater # 5-Heater	46.4	39.7	39.7	39.7	
Hydro Heater H-402	45.0	38.3	38.3	38.3	
Lakewood NB	28.4	26.9	25.2	19.3	
Lakewood SB	28.2	26.6	24.9	19.0	
Motor & Pump P - 1502 Splitter Reflux Pu	27.7	21.1	21.1	21.1	
Motor & Pump P - 1503 Splitter Bottoms P	29.3	22.6	22.6	22.6	
Motor & Pump P - 1504 Splitter Bottoms P	30.1	23.4	23.4	23.4	
Motor & Pump P - 1507 Reactor Pump	30.0	23.4	23.4	23.4	
Motor & Pump P - 1508 Reactor Pump	30.2	23.6	23.6	23.6	
Motor & Pump P - 1511 Stabilizer Reflux	27.9	21.2	21.2	21.2	
Motor & Pump P - 1512 Stabilizer Reflux	32.3	25.7	25.7	25.7	
Motor & Pump P - 1513 Caustic Circulatin	29.7	23.1	23.1	23.1	
Motor & Pump P - 1514 Caustic Circulatin	32.4	25.7	25.7	25.7	
Motor & Pump P 120/121	25.7	19.0	19.0	19.0	
Motor & Pump P 1505 FRESH FEED PUMPS	25.3	18.6	18.6	18.6	
Motor & Pump P 1506 FRESH FEED PUMPS	29.6	23.0	23.0	23.0	
Motor & Pump P 1509 Chloride Injection P	36.3	29.6	29.6	29.6	
Motor & Pump P 1510 Chloride Injection P	36.0	29.3	29.3	29.3	
Motor & Pump P 1601 A	28.0	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.1	21.5	21.5	21.5	
Motor & Pump P 1602 A	28.3	21.7	21.7	21.7	
Motor & Pump P 1602 B	29.1	22.4	22.4	22.4	
Motor & Pump P 211/212	31.7	25.0	25.0	25.0	
Motor & Pump P 215/214	37.7	31.0	31.0	31.0	
Motor & Pump P 216	43.4	36.7	36.7	36.7	
Motor & Pump P 217/218	31.8	25.1	25.1	25.1	
Motor & Pump P 300	37.1	30.4	30.4	30.4	
Motor & Pump P 301	43.7	37.0	37.0	37.0	
Motor & Pump P 302	33.0	26.4	26.4	26.4	
Motor & Pump P 303	31.6	24.9	24.9	24.9	
Motor & Pump P 305	33.0	26.4	26.4	26.4	
Motor & Pump P 306	46.5	39.8	39.8	39.8	
Motor & Pump P 307	38.6	31.9	31.9	31.9	
Motor & Pump P 309	32.8	26.1	26.1	26.1	
Motor & Pump P 312	45.7	39.0	39.0	39.0	
Motor & Pump P 313	46.2	39.6	39.6	39.6	
Motor & Pump P 315	47.3	40.6	40.6	40.6	
Motor & Pump P 316	47.9	41.3	41.3	41.3	
Motor & Pump P 317	48.4	41.7	41.7	41.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 318	44.3	37.7	37.7	37.7	
Motor & Pump P 319	44.1	37.4	37.4	37.4	
Motor & Pump P 327	42.4	35.8	35.8	35.8	
Motor & Pump P 328	44.6	37.9	37.9	37.9	
Motor & Pump P 329	44.7	38.1	38.1	38.1	
Motor & Pump P 451	35.3	28.6	28.6	28.6	
Motor & Pump P 453	43.9	37.2	37.2	37.2	
Motor & Pump P 454	33.5	26.9	26.9	26.9	
Motor & Pump P 457	43.9	37.2	37.2	37.2	
Motor & Pump P 458	39.7	33.0	33.0	33.0	
Motor & Pump P 459	33.9	27.2	27.2	27.2	
Motor & Pump P 56A/B	39.6	32.9	32.9	32.9	
Rail Cars Bumping 6 times in during delivery	45.1	48.1			
Somerset Ave EB	44.2	42.7	41.0	35.1	
Somerset Ave WB	44.0	42.5	40.8	34.8	
Tank Farm Pump 1	45.5	38.8	38.8	38.8	
Tank Farm Pump 2	42.7	36.0	36.0	36.0	
Tank Farm Pump 3	42.5	35.8	35.8	35.8	
UP Train Locomotive Delivery and Pickup	38.7	41.7			
XF-1502 Splitter Area 1	35.1	28.4	28.4	28.4	
XF-1502 Splitter Area 2	33.0	26.3	26.3	26.3	
XF-1504 Splitter Area 1	44.6	38.0	38.0	38.0	
XF-1504 Splitter Area 2	44.4	37.7	37.7	37.7	
XF - 1601	42.6	35.9	35.9	35.9	
XF - 1602	42.7	36.0	36.0	36.0	
XF 304, XF 321	51.9	45.3	45.3	45.3	
XF 313, XF 314	50.1	43.4	43.4	43.4	
XF 335-1, XF 335-2	52.9	46.2	46.2	46.2	
XF 503	52.2	45.5	45.5	45.5	
XF Module 1510	45.9	39.2	39.2	39.2	
XF Module 1519	46.4	39.7	39.7	39.7	
Receiver SS-5 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.8 dB(A) Ld 7-19 dB(A) Leq,N 64.3 dB(A) Le 19					
2011 Track Mobile switch moving rail cars 33 cars per day	47.6	50.7			
Air Compressor C 1	56.8	50.1	50.1	50.1	
Air Compressor Pump	42.4	35.7	35.7	35.7	
Blower F 401	57.7	51.0	51.0	51.0	
Boiler Crude Unit-Heater Opening	47.2	40.5	40.5	40.5	
Compressor House C301, C302, C 124-Comp House East 1	46.9	40.2	40.2	40.2	
Compressor House C301, C302, C 124-Comp House East 2	44.9	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House North	42.2	35.5	35.5	35.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	49.6	43.0	43.0	43.0	
Compressor House C301, C302, C 124-Comp House South 2	44.9	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House West	26.1	19.5	19.5	19.5	
Construciton Control Room Max Evening Night	62.7		56.6	56.6	
Construciton Control Room Max Day	64.2	67.3			
Construction / Renewable Fuels Truck Tr	47.7	49.8	44.2	18.0	
Construction Demolition Warehouse Max Day	44.6	47.7			
Construction Demoltion Loading Racks Max Day	50.5	53.5			
Construction H2 Plant Max Day	60.9	63.9			
Construction H2 Plant Max Evening Night	59.4		53.2	53.2	
Construction PreTreat Building Max Day	58.9	61.9			
Construction PreTreat Building Max Evening Night	57.4		51.2	51.2	
Construction Unit A Construction Max Day	54.2	57.2			
Construction Unit B 2 Max Evening Night	66.3		60.1	60.1	
Construction Unit B Max Day	67.8	70.8			
Cooling Tower CT 510-CT 510 East Side	40.6	34.0	34.0	34.0	
Cooling Tower CT 510-CT 510 West Side	24.9	18.2	18.2	18.2	
Cooling Tower CT 511-CT 511 East Side	55.7	49.0	49.0	49.0	
Cooling Tower CT 511-CT 511 West Side	27.7	21.0	21.0	21.0	
Cooling Tower M 512	32.3	25.6	25.6	25.6	
Cooling Tower M 513	33.3	26.6	26.6	26.6	
Cooling Tower M 514	31.6	24.9	24.9	24.9	
Crude Operatoin Truck Truck Traffic	30.9	24.2	24.2	24.2	
Downey Ave NB	32.2	30.7	29.0	23.1	
Downey Ave SB	32.1	30.6	28.9	23.0	
Heater # 5-Heater	47.2	40.5	40.5	40.5	
Heater # 5-Heater	47.4	40.7	40.7	40.7	
Heater # 5-Heater	47.6	41.0	41.0	41.0	
Hydro Heater H-402	46.4	39.7	39.7	39.7	
Lakewood NB	29.5	28.0	26.2	20.3	
Lakewood SB	29.3	27.8	26.0	20.1	
Motor & Pump P - 1502 Splitter Reflux Pu	27.9	21.2	21.2	21.2	
Motor & Pump P - 1503 Splitter Bottoms P	29.6	22.9	22.9	22.9	
Motor & Pump P - 1504 Splitter Bottoms P	30.3	23.7	23.7	23.7	
Motor & Pump P - 1507 Reactor Pump	30.2	23.6	23.6	23.6	
Motor & Pump P - 1508 Reactor Pump	30.5	23.8	23.8	23.8	
Motor & Pump P - 1511 Stabilizer Reflux	28.2	21.6	21.6	21.6	
Motor & Pump P - 1512 Stabilizer Reflux	32.6	25.9	25.9	25.9	
Motor & Pump P - 1513 Caustic Circulatin	29.7	23.0	23.0	23.0	
Motor & Pump P - 1514 Caustic Circulatin	32.7	26.0	26.0	26.0	
Motor & Pump P 120/121	26.0	19.4	19.4	19.4	
Motor & Pump P 1505 FRESH FEED PUMPS	25.1	18.5	18.5	18.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	29.8	23.1	23.1	23.1	
Motor & Pump P 1509 Chloride Injection P	36.2	29.5	29.5	29.5	
Motor & Pump P 1510 Chloride Injection P	35.7	29.0	29.0	29.0	
Motor & Pump P 1601 A	28.0	21.3	21.3	21.3	
Motor & Pump P 1601 B	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 A	28.2	21.6	21.6	21.6	
Motor & Pump P 1602 B	29.0	22.3	22.3	22.3	
Motor & Pump P 211/212	32.1	25.5	25.5	25.5	
Motor & Pump P 215/214	38.2	31.5	31.5	31.5	
Motor & Pump P 216	43.6	36.9	36.9	36.9	
Motor & Pump P 217/218	32.1	25.5	25.5	25.5	
Motor & Pump P 300	37.6	30.9	30.9	30.9	
Motor & Pump P 301	43.8	37.1	37.1	37.1	
Motor & Pump P 302	33.7	27.0	27.0	27.0	
Motor & Pump P 303	32.2	25.5	25.5	25.5	
Motor & Pump P 305	33.5	26.9	26.9	26.9	
Motor & Pump P 306	47.2	40.5	40.5	40.5	
Motor & Pump P 307	37.8	31.2	31.2	31.2	
Motor & Pump P 309	33.3	26.7	26.7	26.7	
Motor & Pump P 312	45.8	39.2	39.2	39.2	
Motor & Pump P 313	46.4	39.7	39.7	39.7	
Motor & Pump P 315	48.3	41.7	41.7	41.7	
Motor & Pump P 316	49.0	42.3	42.3	42.3	
Motor & Pump P 317	49.2	42.5	42.5	42.5	
Motor & Pump P 318	45.5	38.8	38.8	38.8	
Motor & Pump P 319	45.0	38.4	38.4	38.4	
Motor & Pump P 327	42.7	36.0	36.0	36.0	
Motor & Pump P 328	45.1	38.4	38.4	38.4	
Motor & Pump P 329	45.0	38.3	38.3	38.3	
Motor & Pump P 451	35.1	28.4	28.4	28.4	
Motor & Pump P 453	43.8	37.2	37.2	37.2	
Motor & Pump P 454	33.6	26.9	26.9	26.9	
Motor & Pump P 457	43.9	37.2	37.2	37.2	
Motor & Pump P 458	40.5	33.9	33.9	33.9	
Motor & Pump P 459	34.0	27.3	27.3	27.3	
Motor & Pump P 56A/B	39.9	33.2	33.2	33.2	
Rail Cars Bumping 6 times in during delivery	45.9	48.9			
Somerset Ave EB	45.6	44.0	42.3	36.4	
Somerset Ave WB	45.5	44.0	42.3	36.4	
Tank Farm Pump 1	45.8	39.1	39.1	39.1	
Tank Farm Pump 2	42.5	35.9	35.9	35.9	
Tank Farm Pump 3	42.4	35.7	35.7	35.7	
UP Train Locomotive Delivery and Pickup	38.9	41.9			
XF-1502 Splitter Area 1	36.3	29.7	29.7	29.7	
XF-1502 Splitter Area 2	34.1	27.4	27.4	27.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1504 Splitter Area 1	45.6	38.9	38.9	38.9	
XF-1504 Splitter Area 2	45.3	38.6	38.6	38.6	
XF - 1601	44.1	37.4	37.4	37.4	
XF - 1602	44.2	37.5	37.5	37.5	
XF 304, XF 321	54.0	47.4	47.4	47.4	
XF 313, XF 314	51.4	44.8	44.8	44.8	
XF 335-1, XF 335-2	54.4	47.7	47.7	47.7	
XF 503	54.1	47.4	47.4	47.4	
XF Module 1510	48.0	41.4	41.4	41.4	
XF Module 1519	48.5	41.9	41.9	41.9	
Receiver SS-5 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 73.0 dB(A) Ld 7-19 dB(A) Leq,N 64.4 dB(A) Le 19					
2011 Track Mobile switch moving rail cars 33 cars per day	47.7	50.7			
Air Compressor C 1	56.9	50.2	50.2	50.2	
Air Compressor Pump	43.4	36.7	36.7	36.7	
Blower F 401	57.9	51.3	51.3	51.3	
Boiler Crude Unit-Heater Opening	47.3	40.6	40.6	40.6	
Compressor House C301, C302, C 124-Comp House East 1	47.8	41.1	41.1	41.1	
Compressor House C301, C302, C 124-Comp House East 2	45.6	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House North	44.1	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House South 1	50.1	43.4	43.4	43.4	
Compressor House C301, C302, C 124-Comp House South 2	45.6	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House West	27.7	21.0	21.0	21.0	
Construciton Control Room Max Evening Night	62.8		56.6	56.6	
Construciton Control Room Max Day	64.3	67.3			
Construction / Renewable Fuels Truck Tr	47.8	49.9	44.3	18.6	
Construction Demolition Warehouse Max Day	45.2	48.2			
Construction Demoltion Loading Racks Max Day	50.6	53.6			
Construction H2 Plant Max Day	61.1	64.1			
Construction H2 Plant Max Evening Night	59.6		53.4	53.4	
Construction PreTreat Building Max Day	59.0	62.0			
Construction PreTreat Building Max Evening Night	57.4		51.3	51.3	
Construction Unit A Construction Max Day	54.6	57.6			
Construction Unit B 2 Max Evening Night	66.4		60.2	60.2	
Construction Unit B Max Day	67.9	70.9			
Cooling Tower CT 510-CT 510 East Side	41.2	34.5	34.5	34.5	
Cooling Tower CT 510-CT 510 West Side	25.3	18.6	18.6	18.6	
Cooling Tower CT 511-CT 511 East Side	55.9	49.2	49.2	49.2	
Cooling Tower CT 511-CT 511 West Side	28.1	21.4	21.4	21.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 512	32.6	25.9	25.9	25.9	
Cooling Tower M 513	33.6	27.0	27.0	27.0	
Cooling Tower M 514	32.0	25.3	25.3	25.3	
Crude Operatoin Truck Truck Traffic	31.0	24.4	24.4	24.4	
Downey Ave NB	33.6	32.1	30.3	24.4	
Downey Ave SB	33.5	32.0	30.3	24.4	
Heater # 5-Heater	47.3	40.6	40.6	40.6	
Heater # 5-Heater	47.6	40.9	40.9	40.9	
Heater # 5-Heater	47.8	41.2	41.2	41.2	
Hydro Heater H-402	46.6	39.9	39.9	39.9	
Lakewood NB	30.8	29.3	27.6	21.7	
Lakewood SB	30.7	29.2	27.5	21.6	
Motor & Pump P - 1502 Splitter Reflux Pu	28.0	21.3	21.3	21.3	
Motor & Pump P - 1503 Splitter Bottoms P	29.7	23.0	23.0	23.0	
Motor & Pump P - 1504 Splitter Bottoms P	30.4	23.7	23.7	23.7	
Motor & Pump P - 1507 Reactor Pump	30.3	23.6	23.6	23.6	
Motor & Pump P - 1508 Reactor Pump	30.6	23.9	23.9	23.9	
Motor & Pump P - 1511 Stabilizer Reflux	28.4	21.7	21.7	21.7	
Motor & Pump P - 1512 Stabilizer Reflux	32.7	26.0	26.0	26.0	
Motor & Pump P - 1513 Caustic Circulatin	29.4	22.7	22.7	22.7	
Motor & Pump P - 1514 Caustic Circulatin	32.8	26.1	26.1	26.1	
Motor & Pump P 120/121	28.6	21.9	21.9	21.9	
Motor & Pump P 1505 FRESH FEED PUMPS	25.0	18.3	18.3	18.3	
Motor & Pump P 1506 FRESH FEED PUMPS	29.9	23.2	23.2	23.2	
Motor & Pump P 1509 Chloride Injection P	36.1	29.4	29.4	29.4	
Motor & Pump P 1510 Chloride Injection P	35.4	28.7	28.7	28.7	
Motor & Pump P 1601 A	30.3	23.6	23.6	23.6	
Motor & Pump P 1601 B	30.3	23.7	23.7	23.7	
Motor & Pump P 1602 A	30.4	23.7	23.7	23.7	
Motor & Pump P 1602 B	31.0	24.3	24.3	24.3	
Motor & Pump P 211/212	34.6	27.9	27.9	27.9	
Motor & Pump P 215/214	38.6	31.9	31.9	31.9	
Motor & Pump P 216	43.7	37.1	37.1	37.1	
Motor & Pump P 217/218	34.0	27.3	27.3	27.3	
Motor & Pump P 300	37.3	30.6	30.6	30.6	
Motor & Pump P 301	43.3	36.6	36.6	36.6	
Motor & Pump P 302	33.9	27.3	27.3	27.3	
Motor & Pump P 303	32.9	26.2	26.2	26.2	
Motor & Pump P 305	33.6	27.0	27.0	27.0	
Motor & Pump P 306	45.2	38.6	38.6	38.6	
Motor & Pump P 307	39.7	33.1	33.1	33.1	
Motor & Pump P 309	33.4	26.7	26.7	26.7	
Motor & Pump P 312	45.4	38.8	38.8	38.8	
Motor & Pump P 313	46.1	39.5	39.5	39.5	
Motor & Pump P 315	48.1	41.4	41.4	41.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 316	48.7	42.1	42.1	42.1	
Motor & Pump P 317	48.9	42.3	42.3	42.3	
Motor & Pump P 318	45.1	38.4	38.4	38.4	
Motor & Pump P 319	44.8	38.1	38.1	38.1	
Motor & Pump P 327	42.2	35.5	35.5	35.5	
Motor & Pump P 328	44.7	38.0	38.0	38.0	
Motor & Pump P 329	42.9	36.3	36.3	36.3	
Motor & Pump P 451	35.2	28.5	28.5	28.5	
Motor & Pump P 453	44.0	37.3	37.3	37.3	
Motor & Pump P 454	35.5	28.8	28.8	28.8	
Motor & Pump P 457	44.0	37.4	37.4	37.4	
Motor & Pump P 458	40.8	34.1	34.1	34.1	
Motor & Pump P 459	36.1	29.4	29.4	29.4	
Motor & Pump P 56A/B	40.1	33.4	33.4	33.4	
Rail Cars Bumping 6 times in during delivery	46.0	49.0			
Somerset Ave EB	46.5	45.0	43.3	37.3	
Somerset Ave WB	46.3	44.8	43.1	37.2	
Tank Farm Pump 1	46.0	39.4	39.4	39.4	
Tank Farm Pump 2	42.4	35.7	35.7	35.7	
Tank Farm Pump 3	42.2	35.6	35.6	35.6	
UP Train Locomotive Delivery and Pickup	39.0	42.0			
XF-1502 Splitter Area 1	36.6	30.0	30.0	30.0	
XF-1502 Splitter Area 2	34.4	27.7	27.7	27.7	
XF-1504 Splitter Area 1	45.8	39.1	39.1	39.1	
XF-1504 Splitter Area 2	45.5	38.9	38.9	38.9	
XF - 1601	44.4	37.7	37.7	37.7	
XF - 1602	44.5	37.8	37.8	37.8	
XF 304, XF 321	54.6	48.0	48.0	48.0	
XF 313, XF 314	51.7	45.1	45.1	45.1	
XF 335-1, XF 335-2	55.2	48.5	48.5	48.5	
XF 503	55.0	48.4	48.4	48.4	
XF Module 1510	48.8	42.1	42.1	42.1	
XF Module 1519	49.2	42.5	42.5	42.5	
Receiver SS-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.6 dB(A) Ld 7-19 dB(A) Leq,N 63.5 dB(A) Le 19-2					
2011 Track Mobile switch moving rail cars 33 cars per day	46.6	49.6			
Air Compressor C 1	52.7	46.1	46.1	46.1	
Air Compressor Pump	40.7	34.1	34.1	34.1	
Blower F 401	51.5	44.8	44.8	44.8	
Boiler Crude Unit-Heater Opening	44.1	37.5	37.5	37.5	
Compressor House C301, C302, C 124-Comp House East 1	45.0	38.4	38.4	38.4	
Compressor House C301, C302, C 124-Comp House East 2	44.1	37.4	37.4	37.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House North	41.6	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House South 1	48.1	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House South 2	43.9	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House West	24.3	17.7	17.7	17.7	
Construciton Control Room Max Evening Night	62.8		56.6	56.6	
Construciton Control Room Max Day	64.3	67.3			
Construction / Renewable Fuels Truck Tr	47.4	49.5	43.9	20.2	
Construction Demolition Warehouse Max Day	44.1	47.1			
Construction Demoltion Loading Racks Max Day	50.6	53.6			
Construction H2 Plant Max Day	60.1	63.1			
Construction H2 Plant Max Evening Night	58.5		52.4	52.4	
Construction PreTreat Building Max Day	58.7	61.7			
Construction PreTreat Building Max Evening Night	57.2		51.0	51.0	
Construction Unit A Construction Max Day	52.9	55.9			
Construction Unit B 2 Max Evening Night	66.2		60.0	60.0	
Construction Unit B Max Day	67.7	70.7			
Cooling Tower CT 510-CT 510 East Side	40.9	34.2	34.2	34.2	
Cooling Tower CT 510-CT 510 West Side	23.4	16.7	16.7	16.7	
Cooling Tower CT 511-CT 511 East Side	53.6	47.0	47.0	47.0	
Cooling Tower CT 511-CT 511 West Side	30.7	24.1	24.1	24.1	
Cooling Tower M 512	30.9	24.2	24.2	24.2	
Cooling Tower M 513	31.3	24.6	24.6	24.6	
Cooling Tower M 514	30.6	24.0	24.0	24.0	
Crude Operatoin Truck Truck Traffic	28.4	21.7	21.7	21.7	
Downey Ave NB	31.4	29.9	28.2	22.3	
Downey Ave SB	31.4	29.9	28.2	22.3	
Heater # 5-Heater	47.1	40.4	40.4	40.4	
Heater # 5-Heater	47.3	40.6	40.6	40.6	
Heater # 5-Heater	47.6	40.9	40.9	40.9	
Hydro Heater H-402	44.8	38.2	38.2	38.2	
Lakewood NB	29.2	27.7	26.0	20.1	
Lakewood SB	29.3	27.8	26.1	20.2	
Motor & Pump P - 1502 Splitter Reflux Pu	28.4	21.7	21.7	21.7	
Motor & Pump P - 1503 Splitter Bottoms P	31.2	24.5	24.5	24.5	
Motor & Pump P - 1504 Splitter Bottoms P	32.3	25.7	25.7	25.7	
Motor & Pump P - 1507 Reactor Pump	28.4	21.7	21.7	21.7	
Motor & Pump P - 1508 Reactor Pump	28.3	21.7	21.7	21.7	
Motor & Pump P - 1511 Stabilizer Reflux	34.9	28.2	28.2	28.2	
Motor & Pump P - 1512 Stabilizer Reflux	28.8	22.1	22.1	22.1	
Motor & Pump P - 1513 Caustic Circulatin	35.9	29.3	29.3	29.3	
Motor & Pump P - 1514 Caustic Circulatin	35.7	29.1	29.1	29.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 120/121	25.0	18.4	18.4	18.4	
Motor & Pump P 1505 FRESH FEED PUMPS	25.3	18.7	18.7	18.7	
Motor & Pump P 1506 FRESH FEED PUMPS	28.2	21.5	21.5	21.5	
Motor & Pump P 1509 Chloride Injection P	37.1	30.5	30.5	30.5	
Motor & Pump P 1510 Chloride Injection P	37.0	30.3	30.3	30.3	
Motor & Pump P 1601 A	27.5	20.8	20.8	20.8	
Motor & Pump P 1601 B	27.8	21.1	21.1	21.1	
Motor & Pump P 1602 A	28.1	21.5	21.5	21.5	
Motor & Pump P 1602 B	29.2	22.5	22.5	22.5	
Motor & Pump P 211/212	31.8	25.1	25.1	25.1	
Motor & Pump P 215/214	38.0	31.4	31.4	31.4	
Motor & Pump P 216	40.2	33.5	33.5	33.5	
Motor & Pump P 217/218	32.4	25.8	25.8	25.8	
Motor & Pump P 300	31.0	24.3	24.3	24.3	
Motor & Pump P 301	33.8	27.1	27.1	27.1	
Motor & Pump P 302	32.4	25.7	25.7	25.7	
Motor & Pump P 303	32.4	25.8	25.8	25.8	
Motor & Pump P 305	33.2	26.6	26.6	26.6	
Motor & Pump P 306	44.7	38.0	38.0	38.0	
Motor & Pump P 307	35.0	28.3	28.3	28.3	
Motor & Pump P 309	32.0	25.3	25.3	25.3	
Motor & Pump P 312	45.0	38.4	38.4	38.4	
Motor & Pump P 313	47.1	40.4	40.4	40.4	
Motor & Pump P 315	45.1	38.4	38.4	38.4	
Motor & Pump P 316	47.7	41.0	41.0	41.0	
Motor & Pump P 317	48.4	41.7	41.7	41.7	
Motor & Pump P 318	44.1	37.4	37.4	37.4	
Motor & Pump P 319	44.8	38.2	38.2	38.2	
Motor & Pump P 327	41.1	34.4	34.4	34.4	
Motor & Pump P 328	43.6	36.9	36.9	36.9	
Motor & Pump P 329	42.6	35.9	35.9	35.9	
Motor & Pump P 451	34.4	27.8	27.8	27.8	
Motor & Pump P 453	39.3	32.6	32.6	32.6	
Motor & Pump P 454	33.0	26.4	26.4	26.4	
Motor & Pump P 457	40.1	33.4	33.4	33.4	
Motor & Pump P 458	39.0	32.3	32.3	32.3	
Motor & Pump P 459	33.9	27.2	27.2	27.2	
Motor & Pump P 56A/B	39.9	33.2	33.2	33.2	
Rail Cars Bumping 6 times in during delivery	44.5	47.5			
Somerset Ave EB	46.4	44.9	43.2	37.3	
Somerset Ave WB	46.2	44.7	43.0	37.1	
Tank Farm Pump 1	45.5	38.9	38.9	38.9	
Tank Farm Pump 2	42.9	36.2	36.2	36.2	
Tank Farm Pump 3	42.7	36.0	36.0	36.0	
UP Train Locomotive Delivery and Pickup	37.2	40.2			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 1	44.2	37.6	37.6	37.6	
XF-1502 Splitter Area 2	35.0	28.3	28.3	28.3	
XF-1504 Splitter Area 1	45.6	38.9	38.9	38.9	
XF-1504 Splitter Area 2	45.7	39.0	39.0	39.0	
XF - 1601	41.7	35.0	35.0	35.0	
XF - 1602	41.8	35.2	35.2	35.2	
XF 304, XF 321	51.0	44.4	44.4	44.4	
XF 313, XF 314	49.7	43.1	43.1	43.1	
XF 335-1, XF 335-2	51.6	45.0	45.0	45.0	
XF 503	52.4	45.7	45.7	45.7	
XF Module 1510	45.6	39.0	39.0	39.0	
XF Module 1519	46.4	39.7	39.7	39.7	
Receiver SS-6 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 72.9 dB(A)	Ld 7-19 dB(A)	Leq,N 64.0 dB(A)	Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	46.8	49.8			
Air Compressor C 1	54.4	47.8	47.8	47.8	
Air Compressor Pump	41.5	34.9	34.9	34.9	
Blower F 401	53.0	46.4	46.4	46.4	
Boiler Crude Unit-Heater Opening	44.4	37.7	37.7	37.7	
Compressor House C301, C302, C 124-Comp House East 1	45.9	39.2	39.2	39.2	
Compressor House C301, C302, C 124-Comp House East 2	44.8	38.1	38.1	38.1	
Compressor House C301, C302, C 124-Comp House North	42.0	35.3	35.3	35.3	
Compressor House C301, C302, C 124-Comp House South 1	49.0	42.3	42.3	42.3	
Compressor House C301, C302, C 124-Comp House South 2	44.8	38.1	38.1	38.1	
Compressor House C301, C302, C 124-Comp House West	25.0	18.4	18.4	18.4	
Construciton Control Room Max Evening Night	62.7		56.5	56.5	
Construciton Control Room Max Day	64.2	67.2			
Construction / Renewable Fuels Truck Tr	47.5	49.7	44.0	19.8	
Construction Demolition Warehouse Max Day	45.0	48.0			
Construction Demoltion Loading Racks Max Day	51.3	54.3			
Construction H2 Plant Max Day	60.6	63.6			
Construction H2 Plant Max Evening Night	59.0		52.9	52.9	
Construction PreTreat Building Max Day	58.9	61.9			
Construction PreTreat Building Max Evening Night	57.4		51.2	51.2	
Construction Unit A Construction Max Day	53.6	56.6			
Construction Unit B 2 Max Evening Night	66.6		60.4	60.4	
Construction Unit B Max Day	68.1	71.1			
Cooling Tower CT 510-CT 510 East Side	41.8	35.1	35.1	35.1	
Cooling Tower CT 510-CT 510 West Side	24.3	17.7	17.7	17.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 East Side	54.7	48.0	48.0	48.0	
Cooling Tower CT 511-CT 511 West Side	31.6	24.9	24.9	24.9	
Cooling Tower M 512	30.9	24.2	24.2	24.2	
Cooling Tower M 513	31.3	24.7	24.7	24.7	
Cooling Tower M 514	30.7	24.0	24.0	24.0	
Crude Operatoin Truck Truck Traffic	28.0	21.3	21.3	21.3	
Downey Ave NB	32.2	30.7	29.0	23.0	
Downey Ave SB	32.1	30.6	28.9	23.0	
Heater # 5-Heater	48.3	41.6	41.6	41.6	
Heater # 5-Heater	48.6	41.9	41.9	41.9	
Heater # 5-Heater	48.9	42.2	42.2	42.2	
Hydro Heater H-402	46.1	39.5	39.5	39.5	
Lakewood NB	30.4	28.9	27.2	21.3	
Lakewood SB	30.5	29.0	27.3	21.4	
Motor & Pump P - 1502 Splitter Reflux Pu	28.6	21.9	21.9	21.9	
Motor & Pump P - 1503 Splitter Bottoms P	31.4	24.7	24.7	24.7	
Motor & Pump P - 1504 Splitter Bottoms P	32.4	25.8	25.8	25.8	
Motor & Pump P - 1507 Reactor Pump	28.8	22.1	22.1	22.1	
Motor & Pump P - 1508 Reactor Pump	28.8	22.1	22.1	22.1	
Motor & Pump P - 1511 Stabilizer Reflux	34.9	28.2	28.2	28.2	
Motor & Pump P - 1512 Stabilizer Reflux	29.2	22.5	22.5	22.5	
Motor & Pump P - 1513 Caustic Circulatin	35.9	29.3	29.3	29.3	
Motor & Pump P - 1514 Caustic Circulatin	35.8	29.2	29.2	29.2	
Motor & Pump P 120/121	25.5	18.9	18.9	18.9	
Motor & Pump P 1505 FRESH FEED PUMPS	25.4	18.7	18.7	18.7	
Motor & Pump P 1506 FRESH FEED PUMPS	28.5	21.8	21.8	21.8	
Motor & Pump P 1509 Chloride Injection P	36.9	30.3	30.3	30.3	
Motor & Pump P 1510 Chloride Injection P	36.8	30.1	30.1	30.1	
Motor & Pump P 1601 A	27.6	20.9	20.9	20.9	
Motor & Pump P 1601 B	27.9	21.2	21.2	21.2	
Motor & Pump P 1602 A	28.2	21.5	21.5	21.5	
Motor & Pump P 1602 B	29.2	22.5	22.5	22.5	
Motor & Pump P 211/212	32.2	25.5	25.5	25.5	
Motor & Pump P 215/214	38.4	31.8	31.8	31.8	
Motor & Pump P 216	40.7	34.0	34.0	34.0	
Motor & Pump P 217/218	32.8	26.1	26.1	26.1	
Motor & Pump P 300	31.5	24.9	24.9	24.9	
Motor & Pump P 301	34.8	28.1	28.1	28.1	
Motor & Pump P 302	32.6	25.9	25.9	25.9	
Motor & Pump P 303	32.7	26.0	26.0	26.0	
Motor & Pump P 305	33.4	26.8	26.8	26.8	
Motor & Pump P 306	45.5	38.8	38.8	38.8	
Motor & Pump P 307	35.9	29.2	29.2	29.2	
Motor & Pump P 309	32.2	25.6	25.6	25.6	
Motor & Pump P 312	45.5	38.8	38.8	38.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 313	47.7	41.0	41.0	41.0	
Motor & Pump P 315	45.6	38.9	38.9	38.9	
Motor & Pump P 316	48.3	41.6	41.6	41.6	
Motor & Pump P 317	48.9	42.3	42.3	42.3	
Motor & Pump P 318	44.2	37.6	37.6	37.6	
Motor & Pump P 319	45.0	38.3	38.3	38.3	
Motor & Pump P 327	42.2	35.5	35.5	35.5	
Motor & Pump P 328	43.9	37.2	37.2	37.2	
Motor & Pump P 329	42.8	36.1	36.1	36.1	
Motor & Pump P 451	34.4	27.7	27.7	27.7	
Motor & Pump P 453	40.2	33.5	33.5	33.5	
Motor & Pump P 454	33.2	26.6	26.6	26.6	
Motor & Pump P 457	40.7	34.1	34.1	34.1	
Motor & Pump P 458	39.8	33.1	33.1	33.1	
Motor & Pump P 459	33.9	27.2	27.2	27.2	
Motor & Pump P 56A/B	40.0	33.3	33.3	33.3	
Rail Cars Bumping 6 times in during delivery	45.2	48.3			
Somerset Ave EB	47.8	46.2	44.5	38.6	
Somerset Ave WB	47.5	46.0	44.3	38.4	
Tank Farm Pump 1	45.6	39.0	39.0	39.0	
Tank Farm Pump 2	42.7	36.0	36.0	36.0	
Tank Farm Pump 3	42.6	35.9	35.9	35.9	
UP Train Locomotive Delivery and Pickup	37.3	40.3			
XF-1502 Splitter Area 1	45.2	38.5	38.5	38.5	
XF-1502 Splitter Area 2	36.2	29.5	29.5	29.5	
XF-1504 Splitter Area 1	47.2	40.6	40.6	40.6	
XF-1504 Splitter Area 2	46.5	39.9	39.9	39.9	
XF - 1601	43.4	36.7	36.7	36.7	
XF - 1602	43.4	36.8	36.8	36.8	
XF 304, XF 321	51.5	44.9	44.9	44.9	
XF 313, XF 314	51.0	44.3	44.3	44.3	
XF 335-1, XF 335-2	53.0	46.3	46.3	46.3	
XF 503	53.8	47.2	47.2	47.2	
XF Module 1510	47.5	40.8	40.8	40.8	
XF Module 1519	48.2	41.5	41.5	41.5	
Receiver SS-6 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 73.0 dB(A)	Ld 7-19 dB(A)	Leq,N 64.2 dB(A)	Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	46.9	49.9			
Air Compressor C 1	56.0	49.3	49.3	49.3	
Air Compressor Pump	42.5	35.8	35.8	35.8	
Blower F 401	53.7	47.1	47.1	47.1	
Boiler Crude Unit-Heater Opening	44.5	37.9	37.9	37.9	
Compressor House C301, C302, C 124-Comp House East 1	46.4	39.7	39.7	39.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	44.9	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	43.3	36.6	36.6	36.6	
Compressor House C301, C302, C 124-Comp House South 1	49.4	42.7	42.7	42.7	
Compressor House C301, C302, C 124-Comp House South 2	45.4	38.7	38.7	38.7	
Compressor House C301, C302, C 124-Comp House West	26.6	20.0	20.0	20.0	
Construciton Control Room Max Evening Night	62.8		56.6	56.6	
Construciton Control Room Max Day	64.3	67.3			
Construction / Renewable Fuels Truck Tr	47.6	49.7	44.1	20.8	
Construction Demolition Warehouse Max Day	45.1	48.1			
Construction Demoltion Loading Racks Max Day	51.3	54.3			
Construction H2 Plant Max Day	60.8	63.8			
Construction H2 Plant Max Evening Night	59.3		53.1	53.1	
Construction PreTreat Building Max Day	59.0	62.0			
Construction PreTreat Building Max Evening Night	57.5		51.3	51.3	
Construction Unit A Construction Max Day	53.8	56.8			
Construction Unit B 2 Max Evening Night	66.6		60.4	60.4	
Construction Unit B Max Day	68.1	71.1			
Cooling Tower CT 510-CT 510 East Side	42.2	35.5	35.5	35.5	
Cooling Tower CT 510-CT 510 West Side	24.7	18.0	18.0	18.0	
Cooling Tower CT 511-CT 511 East Side	54.9	48.3	48.3	48.3	
Cooling Tower CT 511-CT 511 West Side	32.2	25.6	25.6	25.6	
Cooling Tower M 512	31.2	24.5	24.5	24.5	
Cooling Tower M 513	31.6	24.9	24.9	24.9	
Cooling Tower M 514	31.0	24.3	24.3	24.3	
Crude Operatoin Truck Truck Traffic	28.1	21.4	21.4	21.4	
Downey Ave NB	33.3	31.8	30.1	24.2	
Downey Ave SB	33.3	31.8	30.1	24.1	
Heater # 5-Heater	48.4	41.7	41.7	41.7	
Heater # 5-Heater	48.7	42.0	42.0	42.0	
Heater # 5-Heater	49.0	42.3	42.3	42.3	
Hydro Heater H-402	46.1	39.5	39.5	39.5	
Lakewood NB	32.0	30.5	28.8	22.9	
Lakewood SB	32.0	30.5	28.8	22.9	
Motor & Pump P - 1502 Splitter Reflux Pu	28.5	21.8	21.8	21.8	
Motor & Pump P - 1503 Splitter Bottoms P	31.2	24.5	24.5	24.5	
Motor & Pump P - 1504 Splitter Bottoms P	32.1	25.4	25.4	25.4	
Motor & Pump P - 1507 Reactor Pump	28.7	22.1	22.1	22.1	
Motor & Pump P - 1508 Reactor Pump	28.8	22.1	22.1	22.1	
Motor & Pump P - 1511 Stabilizer Reflux	35.2	28.5	28.5	28.5	
Motor & Pump P - 1512 Stabilizer Reflux	29.2	22.6	22.6	22.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	35.6	28.9	28.9	28.9	
Motor & Pump P - 1514 Caustic Circulatin	35.6	28.9	28.9	28.9	
Motor & Pump P 120/121	26.2	19.6	19.6	19.6	
Motor & Pump P 1505 FRESH FEED PUMPS	25.1	18.4	18.4	18.4	
Motor & Pump P 1506 FRESH FEED PUMPS	28.4	21.8	21.8	21.8	
Motor & Pump P 1509 Chloride Injection P	36.6	29.9	29.9	29.9	
Motor & Pump P 1510 Chloride Injection P	36.4	29.8	29.8	29.8	
Motor & Pump P 1601 A	29.7	23.0	23.0	23.0	
Motor & Pump P 1601 B	29.9	23.2	23.2	23.2	
Motor & Pump P 1602 A	30.1	23.4	23.4	23.4	
Motor & Pump P 1602 B	30.8	24.1	24.1	24.1	
Motor & Pump P 211/212	34.2	27.5	27.5	27.5	
Motor & Pump P 215/214	38.5	31.8	31.8	31.8	
Motor & Pump P 216	41.0	34.3	34.3	34.3	
Motor & Pump P 217/218	34.1	27.4	27.4	27.4	
Motor & Pump P 300	31.3	24.7	24.7	24.7	
Motor & Pump P 301	37.2	30.5	30.5	30.5	
Motor & Pump P 302	30.1	23.4	23.4	23.4	
Motor & Pump P 303	30.6	23.9	23.9	23.9	
Motor & Pump P 305	31.6	24.9	24.9	24.9	
Motor & Pump P 306	44.4	37.7	37.7	37.7	
Motor & Pump P 307	39.3	32.6	32.6	32.6	
Motor & Pump P 309	31.1	24.5	24.5	24.5	
Motor & Pump P 312	45.1	38.5	38.5	38.5	
Motor & Pump P 313	47.2	40.5	40.5	40.5	
Motor & Pump P 315	45.3	38.6	38.6	38.6	
Motor & Pump P 316	47.9	41.2	41.2	41.2	
Motor & Pump P 317	48.5	41.9	41.9	41.9	
Motor & Pump P 318	44.0	37.3	37.3	37.3	
Motor & Pump P 319	44.7	38.0	38.0	38.0	
Motor & Pump P 327	42.0	35.3	35.3	35.3	
Motor & Pump P 328	42.8	36.1	36.1	36.1	
Motor & Pump P 329	41.3	34.6	34.6	34.6	
Motor & Pump P 451	34.3	27.6	27.6	27.6	
Motor & Pump P 453	40.5	33.8	33.8	33.8	
Motor & Pump P 454	34.9	28.2	28.2	28.2	
Motor & Pump P 457	41.0	34.4	34.4	34.4	
Motor & Pump P 458	39.9	33.2	33.2	33.2	
Motor & Pump P 459	33.8	27.1	27.1	27.1	
Motor & Pump P 56A/B	39.7	33.1	33.1	33.1	
Rail Cars Bumping 6 times in during delivery	45.4	48.4			
Somerset Ave EB	48.6	47.1	45.4	39.5	
Somerset Ave WB	48.1	46.6	44.9	39.0	
Tank Farm Pump 1	45.9	39.2	39.2	39.2	
Tank Farm Pump 2	42.6	35.9	35.9	35.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 3	42.4	35.7	35.7	35.7	
UP Train Locomotive Delivery and Pickup	37.4	40.4			
XF-1502 Splitter Area 1	45.4	38.7	38.7	38.7	
XF-1502 Splitter Area 2	36.5	29.8	29.8	29.8	
XF-1504 Splitter Area 1	47.9	41.2	41.2	41.2	
XF-1504 Splitter Area 2	46.8	40.1	40.1	40.1	
XF - 1601	43.7	37.0	37.0	37.0	
XF - 1602	43.8	37.1	37.1	37.1	
XF 304, XF 321	52.5	45.9	45.9	45.9	
XF 313, XF 314	51.4	44.8	44.8	44.8	
XF 335-1, XF 335-2	53.8	47.2	47.2	47.2	
XF 503	54.5	47.8	47.8	47.8	
XF Module 1510	48.1	41.4	41.4	41.4	
XF Module 1519	48.7	42.0	42.0	42.0	
Receiver MH-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 60.5 dB(A)		Ld 7-19 dB(A)	Leq,N 56.5 dB(A) Le 19-
2011 Track Mobile switch moving rail cars 33 cars per day	23.7	26.7			
Air Compressor C 1	49.0	42.3	42.3	42.3	
Air Compressor Pump	26.1	19.5	19.5	19.5	
Blower F 401	51.3	44.6	44.6	44.6	
Boiler Crude Unit-Heater Opening	23.8	17.1	17.1	17.1	
Compressor House C301, C302, C 124-Comp House East 1	42.9	36.2	36.2	36.2	
Compressor House C301, C302, C 124-Comp House East 2	37.3	30.7	30.7	30.7	
Compressor House C301, C302, C 124-Comp House North	45.4	38.7	38.7	38.7	
Compressor House C301, C302, C 124-Comp House South 1	34.5	27.8	27.8	27.8	
Compressor House C301, C302, C 124-Comp House South 2	27.9	21.3	21.3	21.3	
Compressor House C301, C302, C 124-Comp House West	24.4	17.7	17.7	17.7	
Construciton Control Room Max Evening Night	40.6		34.4	34.4	
Construciton Control Room Max Day	42.1	45.1			
Construction / Renewable Fuels Truck Tr	31.2	33.3	27.6	6.7	
Construction Demolition Warehouse Max Day	34.8	37.8			
Construction Demoltion Loading Racks Max Day	48.7	51.7			
Construction H2 Plant Max Day	44.1	47.1			
Construction H2 Plant Max Evening Night	42.6		36.4	36.4	
Construction PreTreat Building Max Day	40.8	43.8			
Construction PreTreat Building Max Evening Night	39.3		33.1	33.1	
Construction Unit A Construction Max Day	54.5	57.5			
Construction Unit B 2 Max Evening Night	37.9		31.8	31.8	
Construction Unit B Max Day	39.4	42.5			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 510-CT 510 East Side	29.5	22.8	22.8	22.8	
Cooling Tower CT 510-CT 510 West Side	29.7	23.0	23.0	23.0	
Cooling Tower CT 511-CT 511 East Side	27.7	21.0	21.0	21.0	
Cooling Tower CT 511-CT 511 West Side	45.3	38.6	38.6	38.6	
Cooling Tower M 512	25.1	18.4	18.4	18.4	
Cooling Tower M 513	25.1	18.4	18.4	18.4	
Cooling Tower M 514	25.3	18.6	18.6	18.6	
Crude Operatoin Truck Truck Traffic	27.3	20.7	20.7	20.7	
Downey Ave NB	35.2	33.7	32.0	26.1	
Downey Ave SB	35.2	33.7	32.0	26.1	
Heater # 5-Heater	20.1	13.4	13.4	13.4	
Heater # 5-Heater	17.9	11.2	11.2	11.2	
Heater # 5-Heater	17.2	10.5	10.5	10.5	
Hydro Heater H-402	36.7	30.0	30.0	30.0	
Lakewood NB	27.1	25.6	23.9	18.0	
Lakewood SB	26.9	25.4	23.7	17.8	
Motor & Pump P - 1502 Splitter Reflux Pu	34.2	27.5	27.5	27.5	
Motor & Pump P - 1503 Splitter Bottoms P	35.0	28.3	28.3	28.3	
Motor & Pump P - 1504 Splitter Bottoms P	35.3	28.6	28.6	28.6	
Motor & Pump P - 1507 Reactor Pump	33.3	26.7	26.7	26.7	
Motor & Pump P - 1508 Reactor Pump	33.2	26.5	26.5	26.5	
Motor & Pump P - 1511 Stabilizer Reflux	37.5	30.8	30.8	30.8	
Motor & Pump P - 1512 Stabilizer Reflux	32.9	26.2	26.2	26.2	
Motor & Pump P - 1513 Caustic Circulatin	30.6	23.9	23.9	23.9	
Motor & Pump P - 1514 Caustic Circulatin	33.6	27.0	27.0	27.0	
Motor & Pump P 120/121	42.4	35.8	35.8	35.8	
Motor & Pump P 1505 FRESH FEED PUMPS	33.1	26.4	26.4	26.4	
Motor & Pump P 1506 FRESH FEED PUMPS	33.1	26.5	26.5	26.5	
Motor & Pump P 1509 Chloride Injection P	38.5	31.9	31.9	31.9	
Motor & Pump P 1510 Chloride Injection P	38.7	32.0	32.0	32.0	
Motor & Pump P 1601 A	39.1	32.4	32.4	32.4	
Motor & Pump P 1601 B	35.4	28.7	28.7	28.7	
Motor & Pump P 1602 A	35.5	28.8	28.8	28.8	
Motor & Pump P 1602 B	37.2	30.6	30.6	30.6	
Motor & Pump P 211/212	27.4	20.8	20.8	20.8	
Motor & Pump P 215/214	24.0	17.4	17.4	17.4	
Motor & Pump P 216	32.2	25.6	25.6	25.6	
Motor & Pump P 217/218	23.3	16.6	16.6	16.6	
Motor & Pump P 300	37.4	30.7	30.7	30.7	
Motor & Pump P 301	43.0	36.4	36.4	36.4	
Motor & Pump P 302	40.1	33.4	33.4	33.4	
Motor & Pump P 303	41.3	34.6	34.6	34.6	
Motor & Pump P 305	42.4	35.7	35.7	35.7	
Motor & Pump P 306	52.5	45.8	45.8	45.8	
Motor & Pump P 307	44.2	37.6	37.6	37.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 309	42.1	35.5	35.5	35.5	
Motor & Pump P 312	36.0	29.3	29.3	29.3	
Motor & Pump P 313	36.1	29.4	29.4	29.4	
Motor & Pump P 315	37.8	31.2	31.2	31.2	
Motor & Pump P 316	37.9	31.2	31.2	31.2	
Motor & Pump P 317	38.0	31.3	31.3	31.3	
Motor & Pump P 318	35.2	28.5	28.5	28.5	
Motor & Pump P 319	35.1	28.4	28.4	28.4	
Motor & Pump P 327	50.9	44.2	44.2	44.2	
Motor & Pump P 328	53.5	46.8	46.8	46.8	
Motor & Pump P 329	51.6	44.9	44.9	44.9	
Motor & Pump P 451	23.7	17.0	17.0	17.0	
Motor & Pump P 453	22.0	15.3	15.3	15.3	
Motor & Pump P 454	28.8	22.2	22.2	22.2	
Motor & Pump P 457	22.0	15.4	15.4	15.4	
Motor & Pump P 458	22.6	15.9	15.9	15.9	
Motor & Pump P 459	28.8	22.2	22.2	22.2	
Motor & Pump P 56A/B	27.7	21.0	21.0	21.0	
Rail Cars Bumping 6 times in during delivery	24.9	27.9			
Somerset Ave EB	17.6	16.1	14.4	8.4	
Somerset Ave WB	17.9	16.4	14.7	8.7	
Tank Farm Pump 1	26.3	19.6	19.6	19.6	
Tank Farm Pump 2	24.1	17.4	17.4	17.4	
Tank Farm Pump 3	24.5	17.9	17.9	17.9	
UP Train Locomotive Delivery and Pickup	25.6	28.6			
XF-1502 Splitter Area 1	43.6	37.0	37.0	37.0	
XF-1502 Splitter Area 2	43.3	36.6	36.6	36.6	
XF-1504 Splitter Area 1	32.4	25.7	25.7	25.7	
XF-1504 Splitter Area 2	32.2	25.5	25.5	25.5	
XF - 1601	28.3	21.6	21.6	21.6	
XF - 1602	40.6	33.9	33.9	33.9	
XF 304, XF 321	51.6	44.9	44.9	44.9	
XF 313, XF 314	52.1	45.4	45.4	45.4	
XF 335-1, XF 335-2	54.4	47.7	47.7	47.7	
XF 503	49.1	42.4	42.4	42.4	
XF Module 1510	46.6	40.0	40.0	40.0	
XF Module 1519	47.8	41.1	41.1	41.1	
Receiver MH-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.8 dB(A) Ld 7-19 dB(A) Leq,N 55.6 dB(A) Le 19-					
2011 Track Mobile switch moving rail cars 33 cars per day	22.3	25.3			
Air Compressor C 1	47.6	41.0	41.0	41.0	
Air Compressor Pump	25.6	19.0	19.0	19.0	
Blower F 401	46.0	39.3	39.3	39.3	
Boiler Crude Unit-Heater Opening	24.5	17.8	17.8	17.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 1	41.5	34.8	34.8	34.8	
Compressor House C301, C302, C 124-Comp House East 2	41.5	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House North	46.3	39.6	39.6	39.6	
Compressor House C301, C302, C 124-Comp House South 1	33.9	27.2	27.2	27.2	
Compressor House C301, C302, C 124-Comp House South 2	27.1	20.5	20.5	20.5	
Compressor House C301, C302, C 124-Comp House West	23.4	16.7	16.7	16.7	
Construciton Control Room Max Evening Night	40.1		33.9	33.9	
Construciton Control Room Max Day	41.6	44.6			
Construction / Renewable Fuels Truck Tr	31.8	33.9	28.2	8.9	
Construction Demolition Warehouse Max Day	36.3	39.3			
Construction Demoltion Loading Racks Max Day	49.9	52.9			
Construction H2 Plant Max Day	43.7	46.8			
Construction H2 Plant Max Evening Night	42.2		36.1	36.1	
Construction PreTreat Building Max Day	41.6	44.6			
Construction PreTreat Building Max Evening Night	40.1		33.9	33.9	
Construction Unit A Construction Max Day	53.2	56.2			
Construction Unit B 2 Max Evening Night	38.1		31.9	31.9	
Construction Unit B Max Day	39.6	42.6			
Cooling Tower CT 510-CT 510 East Side	34.0	27.3	27.3	27.3	
Cooling Tower CT 510-CT 510 West Side	25.9	19.3	19.3	19.3	
Cooling Tower CT 511-CT 511 East Side	30.3	23.7	23.7	23.7	
Cooling Tower CT 511-CT 511 West Side	30.3	23.7	23.7	23.7	
Cooling Tower M 512	25.2	18.5	18.5	18.5	
Cooling Tower M 513	25.1	18.4	18.4	18.4	
Cooling Tower M 514	25.6	18.9	18.9	18.9	
Crude Operatoin Truck Truck Traffic	28.9	22.2	22.2	22.2	
Downey Ave NB	34.1	32.6	30.9	25.0	
Downey Ave SB	34.3	32.8	31.1	25.2	
Heater # 5-Heater	20.8	14.1	14.1	14.1	
Heater # 5-Heater	18.9	12.2	12.2	12.2	
Heater # 5-Heater	17.7	11.0	11.0	11.0	
Hydro Heater H-402	32.4	25.7	25.7	25.7	
Lakewood NB	29.0	27.5	25.8	19.9	
Lakewood SB	28.8	27.3	25.6	19.7	
Motor & Pump P - 1502 Splitter Reflux Pu	36.8	30.1	30.1	30.1	
Motor & Pump P - 1503 Splitter Bottoms P	34.2	27.5	27.5	27.5	
Motor & Pump P - 1504 Splitter Bottoms P	32.7	26.0	26.0	26.0	
Motor & Pump P - 1507 Reactor Pump	37.4	30.7	30.7	30.7	
Motor & Pump P - 1508 Reactor Pump	36.7	30.0	30.0	30.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	38.1	31.4	31.4	31.4	
Motor & Pump P - 1512 Stabilizer Reflux	35.0	28.3	28.3	28.3	
Motor & Pump P - 1513 Caustic Circulatin	34.6	27.9	27.9	27.9	
Motor & Pump P - 1514 Caustic Circulatin	37.6	31.0	31.0	31.0	
Motor & Pump P 120/121	41.0	34.3	34.3	34.3	
Motor & Pump P 1505 FRESH FEED PUMPS	36.9	30.2	30.2	30.2	
Motor & Pump P 1506 FRESH FEED PUMPS	36.9	30.3	30.3	30.3	
Motor & Pump P 1509 Chloride Injection P	38.7	32.1	32.1	32.1	
Motor & Pump P 1510 Chloride Injection P	38.7	32.0	32.0	32.0	
Motor & Pump P 1601 A	29.3	22.6	22.6	22.6	
Motor & Pump P 1601 B	28.5	21.9	21.9	21.9	
Motor & Pump P 1602 A	29.1	22.5	22.5	22.5	
Motor & Pump P 1602 B	32.7	26.0	26.0	26.0	
Motor & Pump P 211/212	30.2	23.5	23.5	23.5	
Motor & Pump P 215/214	29.3	22.6	22.6	22.6	
Motor & Pump P 216	32.5	25.8	25.8	25.8	
Motor & Pump P 217/218	29.3	22.7	22.7	22.7	
Motor & Pump P 300	40.4	33.8	33.8	33.8	
Motor & Pump P 301	46.9	40.3	40.3	40.3	
Motor & Pump P 302	41.0	34.3	34.3	34.3	
Motor & Pump P 303	41.8	35.1	35.1	35.1	
Motor & Pump P 305	41.6	34.9	34.9	34.9	
Motor & Pump P 306	49.5	42.9	42.9	42.9	
Motor & Pump P 307	45.6	39.0	39.0	39.0	
Motor & Pump P 309	40.3	33.6	33.6	33.6	
Motor & Pump P 312	34.8	28.2	28.2	28.2	
Motor & Pump P 313	35.0	28.4	28.4	28.4	
Motor & Pump P 315	37.2	30.6	30.6	30.6	
Motor & Pump P 316	37.2	30.5	30.5	30.5	
Motor & Pump P 317	37.3	30.6	30.6	30.6	
Motor & Pump P 318	34.3	27.6	27.6	27.6	
Motor & Pump P 319	34.2	27.5	27.5	27.5	
Motor & Pump P 327	48.0	41.4	41.4	41.4	
Motor & Pump P 328	51.9	45.3	45.3	45.3	
Motor & Pump P 329	49.8	43.1	43.1	43.1	
Motor & Pump P 451	22.4	15.8	15.8	15.8	
Motor & Pump P 453	32.7	26.0	26.0	26.0	
Motor & Pump P 454	22.8	16.1	16.1	16.1	
Motor & Pump P 457	26.3	19.6	19.6	19.6	
Motor & Pump P 458	22.4	15.8	15.8	15.8	
Motor & Pump P 459	22.7	16.1	16.1	16.1	
Motor & Pump P 56A/B	27.6	20.9	20.9	20.9	
Rail Cars Bumping 6 times in during delivery	23.9	26.9			
Somerset Ave EB	17.9	16.4	14.7	8.8	
Somerset Ave WB	18.2	16.7	15.0	9.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 1	26.9	20.2	20.2	20.2	
Tank Farm Pump 2	25.4	18.7	18.7	18.7	
Tank Farm Pump 3	25.4	18.7	18.7	18.7	
UP Train Locomotive Delivery and Pickup	24.3	27.3			
XF-1502 Splitter Area 1	43.9	37.3	37.3	37.3	
XF-1502 Splitter Area 2	43.7	37.0	37.0	37.0	
XF-1504 Splitter Area 1	44.4	37.7	37.7	37.7	
XF-1504 Splitter Area 2	44.1	37.5	37.5	37.5	
XF - 1601	34.7	28.0	28.0	28.0	
XF - 1602	34.8	28.1	28.1	28.1	
XF 304, XF 321	50.8	44.1	44.1	44.1	
XF 313, XF 314	50.8	44.2	44.2	44.2	
XF 335-1, XF 335-2	53.4	46.8	46.8	46.8	
XF 503	49.5	42.8	42.8	42.8	
XF Module 1510	46.9	40.2	40.2	40.2	
XF Module 1519	48.0	41.3	41.3	41.3	
Receiver MH-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 60.6 dB(A)	Ld 7-19 dB(A)	Leq,N 54.8 dB(A)	Le 19-
2011 Track Mobile switch moving rail cars 33 cars per day	23.4	26.4			
Air Compressor C 1	48.2	41.5	41.5	41.5	
Air Compressor Pump	25.9	19.2	19.2	19.2	
Blower F 401	44.7	38.0	38.0	38.0	
Boiler Crude Unit-Heater Opening	28.0	21.3	21.3	21.3	
Compressor House C301, C302, C 124-Comp House East 1	41.0	34.3	34.3	34.3	
Compressor House C301, C302, C 124-Comp House East 2	40.3	33.7	33.7	33.7	
Compressor House C301, C302, C 124-Comp House North	48.2	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House South 1	33.4	26.7	26.7	26.7	
Compressor House C301, C302, C 124-Comp House South 2	26.9	20.2	20.2	20.2	
Compressor House C301, C302, C 124-Comp House West	22.2	15.6	15.6	15.6	
Construciton Control Room Max Evening Night	47.2		41.0	41.0	
Construciton Control Room Max Day	48.7	51.7			
Construction / Renewable Fuels Truck Tr	34.4	36.5	30.8	8.7	
Construction Demolition Warehouse Max Day	36.1	39.2			
Construction Demoltion Loading Racks Max Day	51.0	54.1			
Construction H2 Plant Max Day	49.2	52.2			
Construction H2 Plant Max Evening Night	47.7		41.5	41.5	
Construction PreTreat Building Max Day	41.1	44.1			
Construction PreTreat Building Max Evening Night	39.6		33.4	33.4	
Construction Unit A Construction Max Day	53.1	56.1			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction Unit B 2 Max Evening Night	44.3		38.1	38.1	
Construction Unit B Max Day	45.8	48.8			
Cooling Tower CT 510-CT 510 East Side	33.8	27.1	27.1	27.1	
Cooling Tower CT 510-CT 510 West Side	24.1	17.4	17.4	17.4	
Cooling Tower CT 511-CT 511 East Side	36.9	30.3	30.3	30.3	
Cooling Tower CT 511-CT 511 West Side	26.4	19.7	19.7	19.7	
Cooling Tower M 512	25.0	18.3	18.3	18.3	
Cooling Tower M 513	24.8	18.2	18.2	18.2	
Cooling Tower M 514	25.0	18.4	18.4	18.4	
Crude Operatoin Truck Truck Traffic	29.3	22.6	22.6	22.6	
Downey Ave NB	32.0	30.5	28.8	22.8	
Downey Ave SB	32.1	30.6	28.9	23.0	
Heater # 5-Heater	23.6	16.9	16.9	16.9	
Heater # 5-Heater	20.8	14.2	14.2	14.2	
Heater # 5-Heater	18.2	11.5	11.5	11.5	
Hydro Heater H-402	30.1	23.5	23.5	23.5	
Lakewood NB	28.3	26.8	25.1	19.1	
Lakewood SB	28.0	26.5	24.8	18.9	
Motor & Pump P - 1502 Splitter Reflux Pu	28.4	21.7	21.7	21.7	
Motor & Pump P - 1503 Splitter Bottoms P	28.5	21.8	21.8	21.8	
Motor & Pump P - 1504 Splitter Bottoms P	28.6	21.9	21.9	21.9	
Motor & Pump P - 1507 Reactor Pump	28.2	21.6	21.6	21.6	
Motor & Pump P - 1508 Reactor Pump	28.3	21.6	21.6	21.6	
Motor & Pump P - 1511 Stabilizer Reflux	27.4	20.7	20.7	20.7	
Motor & Pump P - 1512 Stabilizer Reflux	26.8	20.2	20.2	20.2	
Motor & Pump P - 1513 Caustic Circulatin	26.7	20.0	20.0	20.0	
Motor & Pump P - 1514 Caustic Circulatin	27.0	20.3	20.3	20.3	
Motor & Pump P 120/121	36.8	30.2	30.2	30.2	
Motor & Pump P 1505 FRESH FEED PUMPS	26.5	19.8	19.8	19.8	
Motor & Pump P 1506 FRESH FEED PUMPS	29.1	22.5	22.5	22.5	
Motor & Pump P 1509 Chloride Injection P	27.6	20.9	20.9	20.9	
Motor & Pump P 1510 Chloride Injection P	27.7	21.0	21.0	21.0	
Motor & Pump P 1601 A	28.6	21.9	21.9	21.9	
Motor & Pump P 1601 B	29.2	22.5	22.5	22.5	
Motor & Pump P 1602 A	30.9	24.2	24.2	24.2	
Motor & Pump P 1602 B	29.8	23.1	23.1	23.1	
Motor & Pump P 211/212	28.6	21.9	21.9	21.9	
Motor & Pump P 215/214	30.1	23.4	23.4	23.4	
Motor & Pump P 216	31.8	25.1	25.1	25.1	
Motor & Pump P 217/218	30.1	23.4	23.4	23.4	
Motor & Pump P 300	37.6	30.9	30.9	30.9	
Motor & Pump P 301	44.6	37.9	37.9	37.9	
Motor & Pump P 302	35.5	28.8	28.8	28.8	
Motor & Pump P 303	38.5	31.8	31.8	31.8	
Motor & Pump P 305	39.2	32.5	32.5	32.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 306	46.6	40.0	40.0	40.0	
Motor & Pump P 307	48.4	41.7	41.7	41.7	
Motor & Pump P 309	39.6	32.9	32.9	32.9	
Motor & Pump P 312	38.2	31.5	31.5	31.5	
Motor & Pump P 313	35.8	29.2	29.2	29.2	
Motor & Pump P 315	40.8	34.1	34.1	34.1	
Motor & Pump P 316	40.9	34.2	34.2	34.2	
Motor & Pump P 317	40.7	34.1	34.1	34.1	
Motor & Pump P 318	35.6	29.0	29.0	29.0	
Motor & Pump P 319	33.8	27.1	27.1	27.1	
Motor & Pump P 327	46.5	39.8	39.8	39.8	
Motor & Pump P 328	51.4	44.7	44.7	44.7	
Motor & Pump P 329	49.5	42.9	42.9	42.9	
Motor & Pump P 451	22.6	16.0	16.0	16.0	
Motor & Pump P 453	21.7	15.0	15.0	15.0	
Motor & Pump P 454	22.5	15.8	15.8	15.8	
Motor & Pump P 457	21.7	15.0	15.0	15.0	
Motor & Pump P 458	23.0	16.3	16.3	16.3	
Motor & Pump P 459	22.5	15.8	15.8	15.8	
Motor & Pump P 56A/B	27.7	21.0	21.0	21.0	
Rail Cars Bumping 6 times in during delivery	24.1	27.1			
Somerset Ave EB	20.4	18.9	17.2	11.3	
Somerset Ave WB	20.4	18.9	17.2	11.2	
Tank Farm Pump 1	27.7	21.1	21.1	21.1	
Tank Farm Pump 2	26.7	20.0	20.0	20.0	
Tank Farm Pump 3	26.2	19.5	19.5	19.5	
UP Train Locomotive Delivery and Pickup	23.6	26.6			
XF-1502 Splitter Area 1	33.4	26.7	26.7	26.7	
XF-1502 Splitter Area 2	30.7	24.1	24.1	24.1	
XF-1504 Splitter Area 1	33.4	26.8	26.8	26.8	
XF-1504 Splitter Area 2	33.3	26.6	26.6	26.6	
XF - 1601	32.2	25.5	25.5	25.5	
XF - 1602	32.0	25.3	25.3	25.3	
XF 304, XF 321	50.3	43.6	43.6	43.6	
XF 313, XF 314	50.0	43.3	43.3	43.3	
XF 335-1, XF 335-2	52.6	45.9	45.9	45.9	
XF 503	50.0	43.4	43.4	43.4	
XF Module 1510	36.3	29.6	29.6	29.6	
XF Module 1519	37.3	30.6	30.6	30.6	
Receiver MH-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 60.5 dB(A)	Ld 7-19 dB(A)	Leq,N 53.6 dB(A)	Le 19-
2011 Track Mobile switch moving rail cars 33 cars per day	22.9	25.9			
Air Compressor C 1	47.5	40.8	40.8	40.8	
Air Compressor Pump	30.6	23.9	23.9	23.9	
Blower F 401	43.5	36.9	36.9	36.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Crude Unit-Heater Opening	25.4	18.7	18.7	18.7	
Compressor House C301, C302, C 124-Comp House East 1	36.8	30.1	30.1	30.1	
Compressor House C301, C302, C 124-Comp House East 2	30.6	24.0	24.0	24.0	
Compressor House C301, C302, C 124-Comp House North	40.2	33.5	33.5	33.5	
Compressor House C301, C302, C 124-Comp House South 1	31.0	24.3	24.3	24.3	
Compressor House C301, C302, C 124-Comp House South 2	24.3	17.6	17.6	17.6	
Compressor House C301, C302, C 124-Comp House West	19.8	13.1	13.1	13.1	
Construciton Control Room Max Evening Night	42.2		36.0	36.0	
Construciton Control Room Max Day	43.7	46.7			
Construction / Renewable Fuels Truck Tr	35.3	37.4	31.7	10.5	
Construction Demolition Warehouse Max Day	36.7	39.7			
Construction Demoltion Loading Racks Max Day	51.6	54.6			
Construction H2 Plant Max Day	52.3	55.3			
Construction H2 Plant Max Evening Night	50.8		44.6	44.6	
Construction PreTreat Building Max Day	42.6	45.6			
Construction PreTreat Building Max Evening Night	41.1		34.9	34.9	
Construction Unit A Construction Max Day	52.3	55.3			
Construction Unit B 2 Max Evening Night	44.6		38.5	38.5	
Construction Unit B Max Day	46.2	49.2			
Cooling Tower CT 510-CT 510 East Side	33.3	26.6	26.6	26.6	
Cooling Tower CT 510-CT 510 West Side	20.6	14.0	14.0	14.0	
Cooling Tower CT 511-CT 511 East Side	36.9	30.3	30.3	30.3	
Cooling Tower CT 511-CT 511 West Side	24.9	18.2	18.2	18.2	
Cooling Tower M 512	24.8	18.1	18.1	18.1	
Cooling Tower M 513	24.7	18.0	18.0	18.0	
Cooling Tower M 514	24.8	18.1	18.1	18.1	
Crude Operatoin Truck Truck Traffic	32.4	25.7	25.7	25.7	
Downey Ave NB	33.4	31.9	30.2	24.3	
Downey Ave SB	33.6	32.1	30.4	24.5	
Heater # 5-Heater	21.3	14.6	14.6	14.6	
Heater # 5-Heater	19.7	13.0	13.0	13.0	
Heater # 5-Heater	17.8	11.1	11.1	11.1	
Hydro Heater H-402	30.8	24.2	24.2	24.2	
Lakewood NB	32.3	30.8	29.1	23.2	
Lakewood SB	32.2	30.7	29.0	23.1	
Motor & Pump P - 1502 Splitter Reflux Pu	28.5	21.8	21.8	21.8	
Motor & Pump P - 1503 Splitter Bottoms P	28.2	21.5	21.5	21.5	
Motor & Pump P - 1504 Splitter Bottoms P	27.3	20.6	20.6	20.6	
Motor & Pump P - 1507 Reactor Pump	26.7	20.0	20.0	20.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1508 Reactor Pump	27.2	20.6	20.6	20.6	
Motor & Pump P - 1511 Stabilizer Reflux	28.5	21.8	21.8	21.8	
Motor & Pump P - 1512 Stabilizer Reflux	26.7	20.1	20.1	20.1	
Motor & Pump P - 1513 Caustic Circulatin	26.8	20.1	20.1	20.1	
Motor & Pump P - 1514 Caustic Circulatin	27.2	20.5	20.5	20.5	
Motor & Pump P 120/121	30.8	24.1	24.1	24.1	
Motor & Pump P 1505 FRESH FEED PUMPS	28.1	21.5	21.5	21.5	
Motor & Pump P 1506 FRESH FEED PUMPS	26.6	19.9	19.9	19.9	
Motor & Pump P 1509 Chloride Injection P	26.5	19.9	19.9	19.9	
Motor & Pump P 1510 Chloride Injection P	27.6	20.9	20.9	20.9	
Motor & Pump P 1601 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.5	21.8	21.8	21.8	
Motor & Pump P 1602 A	28.5	21.8	21.8	21.8	
Motor & Pump P 1602 B	28.9	22.3	22.3	22.3	
Motor & Pump P 211/212	22.3	15.6	15.6	15.6	
Motor & Pump P 215/214	25.5	18.9	18.9	18.9	
Motor & Pump P 216	26.2	19.6	19.6	19.6	
Motor & Pump P 217/218	24.9	18.3	18.3	18.3	
Motor & Pump P 300	36.7	30.0	30.0	30.0	
Motor & Pump P 301	43.0	36.4	36.4	36.4	
Motor & Pump P 302	34.1	27.5	27.5	27.5	
Motor & Pump P 303	36.7	30.0	30.0	30.0	
Motor & Pump P 305	38.1	31.4	31.4	31.4	
Motor & Pump P 306	46.2	39.5	39.5	39.5	
Motor & Pump P 307	44.8	38.1	38.1	38.1	
Motor & Pump P 309	38.2	31.5	31.5	31.5	
Motor & Pump P 312	32.8	26.1	26.1	26.1	
Motor & Pump P 313	33.1	26.5	26.5	26.5	
Motor & Pump P 315	33.5	26.8	26.8	26.8	
Motor & Pump P 316	33.4	26.8	26.8	26.8	
Motor & Pump P 317	33.3	26.6	26.6	26.6	
Motor & Pump P 318	31.0	24.4	24.4	24.4	
Motor & Pump P 319	31.1	24.5	24.5	24.5	
Motor & Pump P 327	46.4	39.7	39.7	39.7	
Motor & Pump P 328	50.2	43.6	43.6	43.6	
Motor & Pump P 329	49.7	43.0	43.0	43.0	
Motor & Pump P 451	22.4	15.7	15.7	15.7	
Motor & Pump P 453	21.7	15.0	15.0	15.0	
Motor & Pump P 454	21.3	14.6	14.6	14.6	
Motor & Pump P 457	21.6	15.0	15.0	15.0	
Motor & Pump P 458	22.5	15.8	15.8	15.8	
Motor & Pump P 459	21.4	14.7	14.7	14.7	
Motor & Pump P 56A/B	23.1	16.5	16.5	16.5	
Rail Cars Bumping 6 times in during delivery	23.7	26.7			
Somerset Ave EB	21.7	20.2	18.5	12.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Somerset Ave WB	21.7	20.2	18.5	12.6	
Tank Farm Pump 1	26.0	19.3	19.3	19.3	
Tank Farm Pump 2	29.5	22.9	22.9	22.9	
Tank Farm Pump 3	29.7	23.0	23.0	23.0	
UP Train Locomotive Delivery and Pickup	22.5	25.5			
XF-1502 Splitter Area 1	30.2	23.6	23.6	23.6	
XF-1502 Splitter Area 2	33.1	26.5	26.5	26.5	
XF-1504 Splitter Area 1	33.3	26.6	26.6	26.6	
XF-1504 Splitter Area 2	33.0	26.4	26.4	26.4	
XF - 1601	32.6	25.9	25.9	25.9	
XF - 1602	32.7	26.0	26.0	26.0	
XF 304, XF 321	49.7	43.0	43.0	43.0	
XF 313, XF 314	49.0	42.4	42.4	42.4	
XF 335-1, XF 335-2	51.8	45.2	45.2	45.2	
XF 503	39.4	32.8	32.8	32.8	
XF Module 1510	37.7	31.1	31.1	31.1	
XF Module 1519	38.7	32.0	32.0	32.0	
Receiver MH-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.6 dB(A) Ld 7-19 dB(A) Leq,N 51.1 dB(A) Le 19-					
2011 Track Mobile switch moving rail cars 33 cars per day	24.2	27.2			
Air Compressor C 1	45.0	38.3	38.3	38.3	
Air Compressor Pump	31.0	24.3	24.3	24.3	
Blower F 401	40.2	33.6	33.6	33.6	
Boiler Crude Unit-Heater Opening	25.2	18.5	18.5	18.5	
Compressor House C301, C302, C 124-Comp House East 1	35.9	29.2	29.2	29.2	
Compressor House C301, C302, C 124-Comp House East 2	30.4	23.7	23.7	23.7	
Compressor House C301, C302, C 124-Comp House North	40.4	33.7	33.7	33.7	
Compressor House C301, C302, C 124-Comp House South 1	30.4	23.8	23.8	23.8	
Compressor House C301, C302, C 124-Comp House South 2	23.4	16.7	16.7	16.7	
Compressor House C301, C302, C 124-Comp House West	19.5	12.9	12.9	12.9	
Construciton Control Room Max Evening Night	40.8		34.6	34.6	
Construciton Control Room Max Day	42.3	45.3			
Construction / Renewable Fuels Truck Tr	35.1	37.3	31.6	9.5	
Construction Demolition Warehouse Max Day	36.5	39.5			
Construction Demoltion Loading Racks Max Day	51.1	54.2			
Construction H2 Plant Max Day	52.1	55.1			
Construction H2 Plant Max Evening Night	50.6		44.4	44.4	
Construction PreTreat Building Max Day	45.1	48.1			
Construction PreTreat Building Max Evening Night	43.6		37.4	37.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction Unit A Construction Max Day	51.5	54.5			
Construction Unit B 2 Max Evening Night	39.9		33.7	33.7	
Construction Unit B Max Day	41.4	44.4			
Cooling Tower CT 510-CT 510 East Side	30.8	24.1	24.1	24.1	
Cooling Tower CT 510-CT 510 West Side	19.1	12.5	12.5	12.5	
Cooling Tower CT 511-CT 511 East Side	36.3	29.6	29.6	29.6	
Cooling Tower CT 511-CT 511 West Side	23.8	17.1	17.1	17.1	
Cooling Tower M 512	24.3	17.6	17.6	17.6	
Cooling Tower M 513	24.2	17.5	17.5	17.5	
Cooling Tower M 514	24.0	17.3	17.3	17.3	
Crude Operatoin Truck Truck Traffic	31.5	24.9	24.9	24.9	
Downey Ave NB	33.6	32.1	30.4	24.5	
Downey Ave SB	33.6	32.1	30.4	24.5	
Heater # 5-Heater	21.1	14.4	14.4	14.4	
Heater # 5-Heater	19.8	13.1	13.1	13.1	
Heater # 5-Heater	17.9	11.2	11.2	11.2	
Hydro Heater H-402	29.3	22.6	22.6	22.6	
Lakewood NB	31.6	30.1	28.4	22.4	
Lakewood SB	31.4	29.9	28.2	22.3	
Motor & Pump P - 1502 Splitter Reflux Pu	27.5	20.8	20.8	20.8	
Motor & Pump P - 1503 Splitter Bottoms P	26.7	20.0	20.0	20.0	
Motor & Pump P - 1504 Splitter Bottoms P	26.8	20.1	20.1	20.1	
Motor & Pump P - 1507 Reactor Pump	29.1	22.4	22.4	22.4	
Motor & Pump P - 1508 Reactor Pump	29.5	22.8	22.8	22.8	
Motor & Pump P - 1511 Stabilizer Reflux	28.6	21.9	21.9	21.9	
Motor & Pump P - 1512 Stabilizer Reflux	28.4	21.7	21.7	21.7	
Motor & Pump P - 1513 Caustic Circulatin	26.8	20.1	20.1	20.1	
Motor & Pump P - 1514 Caustic Circulatin	28.1	21.4	21.4	21.4	
Motor & Pump P 120/121	27.4	20.8	20.8	20.8	
Motor & Pump P 1505 FRESH FEED PUMPS	27.5	20.8	20.8	20.8	
Motor & Pump P 1506 FRESH FEED PUMPS	27.9	21.2	21.2	21.2	
Motor & Pump P 1509 Chloride Injection P	29.2	22.5	22.5	22.5	
Motor & Pump P 1510 Chloride Injection P	29.1	22.4	22.4	22.4	
Motor & Pump P 1601 A	28.0	21.3	21.3	21.3	
Motor & Pump P 1601 B	28.1	21.5	21.5	21.5	
Motor & Pump P 1602 A	28.1	21.5	21.5	21.5	
Motor & Pump P 1602 B	28.4	21.7	21.7	21.7	
Motor & Pump P 211/212	21.0	14.3	14.3	14.3	
Motor & Pump P 215/214	24.8	18.1	18.1	18.1	
Motor & Pump P 216	25.1	18.4	18.4	18.4	
Motor & Pump P 217/218	21.1	14.4	14.4	14.4	
Motor & Pump P 300	30.4	23.7	23.7	23.7	
Motor & Pump P 301	35.0	28.3	28.3	28.3	
Motor & Pump P 302	29.3	22.6	22.6	22.6	
Motor & Pump P 303	29.6	22.9	22.9	22.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 305	30.1	23.5	23.5	23.5	
Motor & Pump P 306	45.2	38.5	38.5	38.5	
Motor & Pump P 307	35.1	28.4	28.4	28.4	
Motor & Pump P 309	28.4	21.8	21.8	21.8	
Motor & Pump P 312	32.7	26.1	26.1	26.1	
Motor & Pump P 313	32.9	26.3	26.3	26.3	
Motor & Pump P 315	32.9	26.3	26.3	26.3	
Motor & Pump P 316	32.9	26.2	26.2	26.2	
Motor & Pump P 317	32.7	26.1	26.1	26.1	
Motor & Pump P 318	30.7	24.1	24.1	24.1	
Motor & Pump P 319	32.3	25.6	25.6	25.6	
Motor & Pump P 327	44.8	38.2	38.2	38.2	
Motor & Pump P 328	40.5	33.9	33.9	33.9	
Motor & Pump P 329	46.8	40.2	40.2	40.2	
Motor & Pump P 451	21.6	15.0	15.0	15.0	
Motor & Pump P 453	20.3	13.6	13.6	13.6	
Motor & Pump P 454	21.6	14.9	14.9	14.9	
Motor & Pump P 457	21.4	14.8	14.8	14.8	
Motor & Pump P 458	21.7	15.1	15.1	15.1	
Motor & Pump P 459	20.7	14.0	14.0	14.0	
Motor & Pump P 56A/B	22.8	16.1	16.1	16.1	
Rail Cars Bumping 6 times in during delivery	24.0	27.0			
Somerset Ave EB	19.0	17.5	15.7	9.8	
Somerset Ave WB	19.2	17.7	16.0	10.1	
Tank Farm Pump 1	29.2	22.6	22.6	22.6	
Tank Farm Pump 2	30.3	23.6	23.6	23.6	
Tank Farm Pump 3	30.6	23.9	23.9	23.9	
UP Train Locomotive Delivery and Pickup	23.0	26.0			
XF-1502 Splitter Area 1	32.9	26.2	26.2	26.2	
XF-1502 Splitter Area 2	32.8	26.1	26.1	26.1	
XF-1504 Splitter Area 1	33.0	26.4	26.4	26.4	
XF-1504 Splitter Area 2	32.9	26.2	26.2	26.2	
XF - 1601	33.8	27.1	27.1	27.1	
XF - 1602	34.0	27.3	27.3	27.3	
XF 304, XF 321	42.9	36.3	36.3	36.3	
XF 313, XF 314	48.3	41.6	41.6	41.6	
XF 335-1, XF 335-2	48.5	41.8	41.8	41.8	
XF 503	39.0	32.3	32.3	32.3	
XF Module 1510	35.7	29.1	29.1	29.1	
XF Module 1519	36.7	30.0	30.0	30.0	
Receiver MH-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 58.9 dB(A)	Ld 7-19 dB(A)	Leq,N 50.1 dB(A)	Le 19-
2011 Track Mobile switch moving rail cars 33 cars per day	23.7	26.7			
Air Compressor C 1	44.5	37.8	37.8	37.8	
Air Compressor Pump	26.7	20.0	20.0	20.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Blower F 401	45.3	38.7	38.7	38.7	
Boiler Crude Unit-Heater Opening	25.8	19.1	19.1	19.1	
Compressor House C301, C302, C 124-Comp House East 1	35.3	28.6	28.6	28.6	
Compressor House C301, C302, C 124-Comp House East 2	29.7	23.1	23.1	23.1	
Compressor House C301, C302, C 124-Comp House North	39.8	33.1	33.1	33.1	
Compressor House C301, C302, C 124-Comp House South 1	29.8	23.1	23.1	23.1	
Compressor House C301, C302, C 124-Comp House South 2	22.9	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House West	18.7	12.0	12.0	12.0	
Construciton Control Room Max Evening Night	46.4		40.3	40.3	
Construciton Control Room Max Day	48.0	51.0			
Construction / Renewable Fuels Truck Tr	36.7	38.9	33.2	9.0	
Construction Demolition Warehouse Max Day	36.6	39.6			
Construction Demoltion Loading Racks Max Day	49.4	52.4			
Construction H2 Plant Max Day	49.9	52.9			
Construction H2 Plant Max Evening Night	48.4		42.2	42.2	
Construction PreTreat Building Max Day	44.9	47.9			
Construction PreTreat Building Max Evening Night	43.4		37.2	37.2	
Construction Unit A Construction Max Day	50.7	53.7			
Construction Unit B 2 Max Evening Night	42.7		36.5	36.5	
Construction Unit B Max Day	44.2	47.2			
Cooling Tower CT 510-CT 510 East Side	32.1	25.5	25.5	25.5	
Cooling Tower CT 510-CT 510 West Side	18.7	12.0	12.0	12.0	
Cooling Tower CT 511-CT 511 East Side	35.9	29.3	29.3	29.3	
Cooling Tower CT 511-CT 511 West Side	22.6	16.0	16.0	16.0	
Cooling Tower M 512	23.8	17.1	17.1	17.1	
Cooling Tower M 513	23.4	16.7	16.7	16.7	
Cooling Tower M 514	23.8	17.1	17.1	17.1	
Crude Operatoin Truck Truck Traffic	31.3	24.6	24.6	24.6	
Downey Ave NB	32.1	30.6	28.9	23.0	
Downey Ave SB	32.2	30.7	29.0	23.1	
Heater # 5-Heater	21.5	14.8	14.8	14.8	
Heater # 5-Heater	20.5	13.8	13.8	13.8	
Heater # 5-Heater	18.4	11.7	11.7	11.7	
Hydro Heater H-402	30.2	23.5	23.5	23.5	
Lakewood NB	31.0	29.5	27.8	21.9	
Lakewood SB	30.9	29.4	27.7	21.8	
Motor & Pump P - 1502 Splitter Reflux Pu	25.7	19.1	19.1	19.1	
Motor & Pump P - 1503 Splitter Bottoms P	25.9	19.2	19.2	19.2	
Motor & Pump P - 1504 Splitter Bottoms P	26.0	19.3	19.3	19.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1507 Reactor Pump	27.4	20.7	20.7	20.7	
Motor & Pump P - 1508 Reactor Pump	26.6	20.0	20.0	20.0	
Motor & Pump P - 1511 Stabilizer Reflux	27.7	21.0	21.0	21.0	
Motor & Pump P - 1512 Stabilizer Reflux	27.6	20.9	20.9	20.9	
Motor & Pump P - 1513 Caustic Circulatin	27.3	20.6	20.6	20.6	
Motor & Pump P - 1514 Caustic Circulatin	26.8	20.1	20.1	20.1	
Motor & Pump P 120/121	27.6	21.0	21.0	21.0	
Motor & Pump P 1505 FRESH FEED PUMPS	26.4	19.7	19.7	19.7	
Motor & Pump P 1506 FRESH FEED PUMPS	26.4	19.8	19.8	19.8	
Motor & Pump P 1509 Chloride Injection P	26.4	19.8	19.8	19.8	
Motor & Pump P 1510 Chloride Injection P	25.1	18.4	18.4	18.4	
Motor & Pump P 1601 A	27.6	20.9	20.9	20.9	
Motor & Pump P 1601 B	27.6	21.0	21.0	21.0	
Motor & Pump P 1602 A	27.7	21.0	21.0	21.0	
Motor & Pump P 1602 B	27.9	21.2	21.2	21.2	
Motor & Pump P 211/212	21.7	15.1	15.1	15.1	
Motor & Pump P 215/214	21.8	15.1	15.1	15.1	
Motor & Pump P 216	25.2	18.6	18.6	18.6	
Motor & Pump P 217/218	20.8	14.2	14.2	14.2	
Motor & Pump P 300	29.8	23.1	23.1	23.1	
Motor & Pump P 301	33.9	27.3	27.3	27.3	
Motor & Pump P 302	31.0	24.4	24.4	24.4	
Motor & Pump P 303	28.3	21.7	21.7	21.7	
Motor & Pump P 305	26.9	20.2	20.2	20.2	
Motor & Pump P 306	42.2	35.5	35.5	35.5	
Motor & Pump P 307	35.0	28.3	28.3	28.3	
Motor & Pump P 309	26.5	19.9	19.9	19.9	
Motor & Pump P 312	31.2	24.5	24.5	24.5	
Motor & Pump P 313	31.9	25.2	25.2	25.2	
Motor & Pump P 315	31.9	25.2	25.2	25.2	
Motor & Pump P 316	31.9	25.2	25.2	25.2	
Motor & Pump P 317	31.8	25.1	25.1	25.1	
Motor & Pump P 318	31.1	24.4	24.4	24.4	
Motor & Pump P 319	30.8	24.2	24.2	24.2	
Motor & Pump P 327	41.5	34.8	34.8	34.8	
Motor & Pump P 328	39.0	32.3	32.3	32.3	
Motor & Pump P 329	39.3	32.6	32.6	32.6	
Motor & Pump P 451	21.8	15.2	15.2	15.2	
Motor & Pump P 453	21.7	15.0	15.0	15.0	
Motor & Pump P 454	21.8	15.1	15.1	15.1	
Motor & Pump P 457	21.7	15.0	15.0	15.0	
Motor & Pump P 458	21.9	15.2	15.2	15.2	
Motor & Pump P 459	21.8	15.1	15.1	15.1	
Motor & Pump P 56A/B	21.5	14.9	14.9	14.9	
Rail Cars Bumping 6 times in during delivery	23.6	26.6			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Somerset Ave EB	21.0	19.5	17.8	11.9	
Somerset Ave WB	21.2	19.7	18.0	12.0	
Tank Farm Pump 1	30.0	23.3	23.3	23.3	
Tank Farm Pump 2	28.4	21.8	21.8	21.8	
Tank Farm Pump 3	28.3	21.7	21.7	21.7	
UP Train Locomotive Delivery and Pickup	22.9	26.0			
XF-1502 Splitter Area 1	34.1	27.5	27.5	27.5	
XF-1502 Splitter Area 2	34.0	27.3	27.3	27.3	
XF-1504 Splitter Area 1	34.2	27.5	27.5	27.5	
XF-1504 Splitter Area 2	34.1	27.4	27.4	27.4	
XF - 1601	35.0	28.3	28.3	28.3	
XF - 1602	35.1	28.5	28.5	28.5	
XF 304, XF 321	42.4	35.7	35.7	35.7	
XF 313, XF 314	47.6	40.9	40.9	40.9	
XF 335-1, XF 335-2	44.6	37.9	37.9	37.9	
XF 503	39.0	32.3	32.3	32.3	
XF Module 1510	36.9	30.3	30.3	30.3	
XF Module 1519	32.9	26.3	26.3	26.3	
Receiver MH-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 59.0 dB(A)	Ld 7-19 dB(A)	Leq,N 50.6 dB(A)	Le 19-
2011 Track Mobile switch moving rail cars 33 cars per day	20.1	23.1			
Air Compressor C 1	44.3	37.6	37.6	37.6	
Air Compressor Pump	26.0	19.4	19.4	19.4	
Blower F 401	45.2	38.5	38.5	38.5	
Boiler Crude Unit-Heater Opening	29.6	23.0	23.0	23.0	
Compressor House C301, C302, C 124-Comp House East 1	34.4	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House East 2	30.1	23.4	23.4	23.4	
Compressor House C301, C302, C 124-Comp House North	40.7	34.0	34.0	34.0	
Compressor House C301, C302, C 124-Comp House South 1	29.6	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House South 2	22.8	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House West	18.5	11.8	11.8	11.8	
Construciton Control Room Max Evening Night	50.4		44.2	44.2	
Construciton Control Room Max Day	51.9	54.9			
Construction / Renewable Fuels Truck Tr	37.0	39.1	33.5	8.3	
Construction Demolition Warehouse Max Day	36.5	39.5			
Construction Demoltion Loading Racks Max Day	48.5	51.5			
Construction H2 Plant Max Day	45.6	48.6			
Construction H2 Plant Max Evening Night	44.1		37.9	37.9	
Construction PreTreat Building Max Day	43.8	46.8			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction PreTreat Building Max Evening Night	42.2		36.1	36.1	
Construction Unit A Construction Max Day	48.8	51.8			
Construction Unit B 2 Max Evening Night	47.2		41.0	41.0	
Construction Unit B Max Day	48.7	51.7			
Cooling Tower CT 510-CT 510 East Side	31.7	25.0	25.0	25.0	
Cooling Tower CT 510-CT 510 West Side	18.3	11.6	11.6	11.6	
Cooling Tower CT 511-CT 511 East Side	46.3	39.6	39.6	39.6	
Cooling Tower CT 511-CT 511 West Side	23.9	17.3	17.3	17.3	
Cooling Tower M 512	23.3	16.7	16.7	16.7	
Cooling Tower M 513	23.3	16.6	16.6	16.6	
Cooling Tower M 514	23.4	16.8	16.8	16.8	
Crude Operatoin Truck Truck Traffic	33.0	26.4	26.4	26.4	
Downey Ave NB	31.4	29.9	28.2	22.3	
Downey Ave SB	31.6	30.0	28.3	22.4	
Heater # 5-Heater	24.1	17.4	17.4	17.4	
Heater # 5-Heater	23.1	16.4	16.4	16.4	
Heater # 5-Heater	18.9	12.2	12.2	12.2	
Hydro Heater H-402	30.5	23.8	23.8	23.8	
Lakewood NB	33.4	31.9	30.2	24.3	
Lakewood SB	33.3	31.8	30.1	24.2	
Motor & Pump P - 1502 Splitter Reflux Pu	25.6	18.9	18.9	18.9	
Motor & Pump P - 1503 Splitter Bottoms P	26.3	19.7	19.7	19.7	
Motor & Pump P - 1504 Splitter Bottoms P	27.8	21.2	21.2	21.2	
Motor & Pump P - 1507 Reactor Pump	26.4	19.7	19.7	19.7	
Motor & Pump P - 1508 Reactor Pump	26.8	20.1	20.1	20.1	
Motor & Pump P - 1511 Stabilizer Reflux	27.6	21.0	21.0	21.0	
Motor & Pump P - 1512 Stabilizer Reflux	27.9	21.2	21.2	21.2	
Motor & Pump P - 1513 Caustic Circulatin	26.7	20.0	20.0	20.0	
Motor & Pump P - 1514 Caustic Circulatin	26.9	20.2	20.2	20.2	
Motor & Pump P 120/121	25.8	19.2	19.2	19.2	
Motor & Pump P 1505 FRESH FEED PUMPS	25.6	18.9	18.9	18.9	
Motor & Pump P 1506 FRESH FEED PUMPS	25.6	18.9	18.9	18.9	
Motor & Pump P 1509 Chloride Injection P	24.1	17.4	17.4	17.4	
Motor & Pump P 1510 Chloride Injection P	24.1	17.4	17.4	17.4	
Motor & Pump P 1601 A	36.0	29.4	29.4	29.4	
Motor & Pump P 1601 B	36.1	29.4	29.4	29.4	
Motor & Pump P 1602 A	36.1	29.4	29.4	29.4	
Motor & Pump P 1602 B	36.3	29.6	29.6	29.6	
Motor & Pump P 211/212	20.8	14.1	14.1	14.1	
Motor & Pump P 215/214	25.3	18.6	18.6	18.6	
Motor & Pump P 216	25.1	18.5	18.5	18.5	
Motor & Pump P 217/218	20.9	14.2	14.2	14.2	
Motor & Pump P 300	28.1	21.5	21.5	21.5	
Motor & Pump P 301	33.4	26.8	26.8	26.8	
Motor & Pump P 302	27.9	21.2	21.2	21.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 303	29.1	22.4	22.4	22.4	
Motor & Pump P 305	26.3	19.7	19.7	19.7	
Motor & Pump P 306	41.4	34.8	34.8	34.8	
Motor & Pump P 307	33.6	26.9	26.9	26.9	
Motor & Pump P 309	25.7	19.0	19.0	19.0	
Motor & Pump P 312	30.3	23.6	23.6	23.6	
Motor & Pump P 313	31.0	24.4	24.4	24.4	
Motor & Pump P 315	32.3	25.6	25.6	25.6	
Motor & Pump P 316	32.1	25.4	25.4	25.4	
Motor & Pump P 317	31.7	25.0	25.0	25.0	
Motor & Pump P 318	30.7	24.1	24.1	24.1	
Motor & Pump P 319	30.5	23.8	23.8	23.8	
Motor & Pump P 327	40.4	33.8	33.8	33.8	
Motor & Pump P 328	38.2	31.5	31.5	31.5	
Motor & Pump P 329	38.3	31.6	31.6	31.6	
Motor & Pump P 451	19.5	12.9	12.9	12.9	
Motor & Pump P 453	20.1	13.4	13.4	13.4	
Motor & Pump P 454	21.9	15.2	15.2	15.2	
Motor & Pump P 457	21.7	15.0	15.0	15.0	
Motor & Pump P 458	19.7	13.0	13.0	13.0	
Motor & Pump P 459	21.9	15.2	15.2	15.2	
Motor & Pump P 56A/B	21.6	14.9	14.9	14.9	
Rail Cars Bumping 6 times in during delivery	21.0	24.0			
Somerset Ave EB	22.5	21.0	19.3	13.4	
Somerset Ave WB	22.7	21.2	19.4	13.5	
Tank Farm Pump 1	29.2	22.5	22.5	22.5	
Tank Farm Pump 2	28.9	22.3	22.3	22.3	
Tank Farm Pump 3	28.7	22.0	22.0	22.0	
UP Train Locomotive Delivery and Pickup	21.9	24.9			
XF-1502 Splitter Area 1	33.7	27.1	27.1	27.1	
XF-1502 Splitter Area 2	33.7	27.0	27.0	27.0	
XF-1504 Splitter Area 1	33.9	27.2	27.2	27.2	
XF-1504 Splitter Area 2	33.6	26.9	26.9	26.9	
XF - 1601	34.8	28.1	28.1	28.1	
XF - 1602	35.2	28.5	28.5	28.5	
XF 304, XF 321	42.1	35.4	35.4	35.4	
XF 313, XF 314	41.5	34.8	34.8	34.8	
XF 335-1, XF 335-2	43.9	37.3	37.3	37.3	
XF 503	39.5	32.8	32.8	32.8	
XF Module 1510	36.5	29.9	29.9	29.9	
XF Module 1519	37.4	30.7	30.7	30.7	
Receiver MH-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.9 dB(A) Ld 7-19 dB(A) Leq,N 50.8 dB(A) Le 19-					
2011 Track Mobile switch moving rail cars 33 cars per day	22.3	25.3			
Air Compressor C 1	44.1	37.4	37.4	37.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor Pump	26.1	19.4	19.4	19.4	
Blower F 401	44.2	37.5	37.5	37.5	
Boiler Crude Unit-Heater Opening	30.2	23.5	23.5	23.5	
Compressor House C301, C302, C 124-Comp House East 1	33.6	26.9	26.9	26.9	
Compressor House C301, C302, C 124-Comp House East 2	29.8	23.1	23.1	23.1	
Compressor House C301, C302, C 124-Comp House North	40.6	34.0	34.0	34.0	
Compressor House C301, C302, C 124-Comp House South 1	29.4	22.8	22.8	22.8	
Compressor House C301, C302, C 124-Comp House South 2	22.3	15.7	15.7	15.7	
Compressor House C301, C302, C 124-Comp House West	18.0	11.3	11.3	11.3	
Construciton Control Room Max Evening Night	51.1		45.0	45.0	
Construciton Control Room Max Day	52.6	55.7			
Construction / Renewable Fuels Truck Tr	37.4	39.5	33.8	6.9	
Construction Demolition Warehouse Max Day	37.4	40.4			
Construction Demoltion Loading Racks Max Day	54.9	57.9			
Construction H2 Plant Max Day	46.8	49.8			
Construction H2 Plant Max Evening Night	45.2		39.1	39.1	
Construction PreTreat Building Max Day	43.9	46.9			
Construction PreTreat Building Max Evening Night	42.4		36.2	36.2	
Construction Unit A Construction Max Day	47.1	50.1			
Construction Unit B 2 Max Evening Night	48.3		42.1	42.1	
Construction Unit B Max Day	49.8	52.8			
Cooling Tower CT 510-CT 510 East Side	30.7	24.0	24.0	24.0	
Cooling Tower CT 510-CT 510 West Side	19.3	12.6	12.6	12.6	
Cooling Tower CT 511-CT 511 East Side	34.4	27.8	27.8	27.8	
Cooling Tower CT 511-CT 511 West Side	24.7	18.1	18.1	18.1	
Cooling Tower M 512	22.9	16.3	16.3	16.3	
Cooling Tower M 513	22.8	16.2	16.2	16.2	
Cooling Tower M 514	22.9	16.2	16.2	16.2	
Crude Operatoin Truck Truck Traffic	34.1	27.4	27.4	27.4	
Downey Ave NB	31.7	30.2	28.5	22.6	
Downey Ave SB	31.5	30.0	28.3	22.4	
Heater # 5-Heater	24.5	17.8	17.8	17.8	
Heater # 5-Heater	24.1	17.4	17.4	17.4	
Heater # 5-Heater	19.7	13.0	13.0	13.0	
Hydro Heater H-402	29.7	23.0	23.0	23.0	
Lakewood NB	33.3	31.8	30.1	24.2	
Lakewood SB	33.1	31.6	29.9	24.0	
Motor & Pump P - 1502 Splitter Reflux Pu	24.9	18.3	18.3	18.3	
Motor & Pump P - 1503 Splitter Bottoms P	26.2	19.6	19.6	19.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	27.0	20.3	20.3	20.3	
Motor & Pump P - 1507 Reactor Pump	37.9	31.2	31.2	31.2	
Motor & Pump P - 1508 Reactor Pump	24.4	17.7	17.7	17.7	
Motor & Pump P - 1511 Stabilizer Reflux	26.9	20.3	20.3	20.3	
Motor & Pump P - 1512 Stabilizer Reflux	36.0	29.3	29.3	29.3	
Motor & Pump P - 1513 Caustic Circulatin	25.9	19.3	19.3	19.3	
Motor & Pump P - 1514 Caustic Circulatin	35.0	28.3	28.3	28.3	
Motor & Pump P 120/121	25.1	18.5	18.5	18.5	
Motor & Pump P 1505 FRESH FEED PUMPS	26.3	19.6	19.6	19.6	
Motor & Pump P 1506 FRESH FEED PUMPS	26.4	19.7	19.7	19.7	
Motor & Pump P 1509 Chloride Injection P	23.5	16.9	16.9	16.9	
Motor & Pump P 1510 Chloride Injection P	23.6	16.9	16.9	16.9	
Motor & Pump P 1601 A	27.0	20.3	20.3	20.3	
Motor & Pump P 1601 B	27.0	20.3	20.3	20.3	
Motor & Pump P 1602 A	27.0	20.3	20.3	20.3	
Motor & Pump P 1602 B	25.1	18.4	18.4	18.4	
Motor & Pump P 211/212	19.7	13.1	13.1	13.1	
Motor & Pump P 215/214	25.1	18.4	18.4	18.4	
Motor & Pump P 216	25.0	18.3	18.3	18.3	
Motor & Pump P 217/218	18.3	11.6	11.6	11.6	
Motor & Pump P 300	26.8	20.1	20.1	20.1	
Motor & Pump P 301	32.4	25.7	25.7	25.7	
Motor & Pump P 302	28.2	21.5	21.5	21.5	
Motor & Pump P 303	29.6	22.9	22.9	22.9	
Motor & Pump P 305	26.1	19.4	19.4	19.4	
Motor & Pump P 306	41.0	34.4	34.4	34.4	
Motor & Pump P 307	33.1	26.5	26.5	26.5	
Motor & Pump P 309	25.4	18.7	18.7	18.7	
Motor & Pump P 312	30.2	23.5	23.5	23.5	
Motor & Pump P 313	30.7	24.1	24.1	24.1	
Motor & Pump P 315	32.2	25.5	25.5	25.5	
Motor & Pump P 316	31.4	24.8	24.8	24.8	
Motor & Pump P 317	31.8	25.2	25.2	25.2	
Motor & Pump P 318	30.2	23.5	23.5	23.5	
Motor & Pump P 319	29.9	23.2	23.2	23.2	
Motor & Pump P 327	40.0	33.4	33.4	33.4	
Motor & Pump P 328	38.1	31.4	31.4	31.4	
Motor & Pump P 329	37.9	31.3	31.3	31.3	
Motor & Pump P 451	22.1	15.4	15.4	15.4	
Motor & Pump P 453	21.6	15.0	15.0	15.0	
Motor & Pump P 454	19.0	12.4	12.4	12.4	
Motor & Pump P 457	21.3	14.7	14.7	14.7	
Motor & Pump P 458	21.7	15.0	15.0	15.0	
Motor & Pump P 459	19.1	12.4	12.4	12.4	
Motor & Pump P 56A/B	21.2	14.6	14.6	14.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Rail Cars Bumping 6 times in during delivery	23.9	26.9			
Somerset Ave EB	23.8	22.3	20.6	14.7	
Somerset Ave WB	23.9	22.4	20.6	14.7	
Tank Farm Pump 1	28.5	21.9	21.9	21.9	
Tank Farm Pump 2	29.0	22.3	22.3	22.3	
Tank Farm Pump 3	28.6	21.9	21.9	21.9	
UP Train Locomotive Delivery and Pickup	20.1	23.1			
XF-1502 Splitter Area 1	33.6	27.0	27.0	27.0	
XF-1502 Splitter Area 2	33.5	26.8	26.8	26.8	
XF-1504 Splitter Area 1	33.6	26.9	26.9	26.9	
XF-1504 Splitter Area 2	33.4	26.8	26.8	26.8	
XF - 1601	31.8	25.2	25.2	25.2	
XF - 1602	31.7	25.0	25.0	25.0	
XF 304, XF 321	41.8	35.1	35.1	35.1	
XF 313, XF 314	41.0	34.3	34.3	34.3	
XF 335-1, XF 335-2	43.6	37.0	37.0	37.0	
XF 503	39.7	33.1	33.1	33.1	
XF Module 1510	36.3	29.7	29.7	29.7	
XF Module 1519	47.3	40.6	40.6	40.6	
Receiver CA-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.7 dB(A) Ld 7-19 dB(A) Leq,N 53.0 dB(A) Le 19-					
2011 Track Mobile switch moving rail cars 33 cars per day	26.3	29.3			
Air Compressor C 1	43.6	36.9	36.9	36.9	
Air Compressor Pump	32.5	25.8	25.8	25.8	
Blower F 401	44.8	38.2	38.2	38.2	
Boiler Crude Unit-Heater Opening	27.5	20.8	20.8	20.8	
Compressor House C301, C302, C 124-Comp House East 1	39.1	32.4	32.4	32.4	
Compressor House C301, C302, C 124-Comp House East 2	32.0	25.4	25.4	25.4	
Compressor House C301, C302, C 124-Comp House North	43.1	36.5	36.5	36.5	
Compressor House C301, C302, C 124-Comp House South 1	29.5	22.8	22.8	22.8	
Compressor House C301, C302, C 124-Comp House South 2	21.1	14.4	14.4	14.4	
Compressor House C301, C302, C 124-Comp House West	17.6	11.0	11.0	11.0	
Construciton Control Room Max Evening Night	54.0		47.8	47.8	
Construciton Control Room Max Day	55.5	58.5			
Construction / Renewable Fuels Truck Tr	40.3	42.5	36.8	9.3	
Construction Demolition Warehouse Max Day	37.9	40.9			
Construction Demoltion Loading Racks Max Day	41.8	44.8			
Construction H2 Plant Max Day	53.7	56.7			
Construction H2 Plant Max Evening Night	52.1		46.0	46.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction PreTreat Building Max Day	42.9	45.9			
Construction PreTreat Building Max Evening Night	41.4		35.2	35.2	
Construction Unit A Construction Max Day	46.8	49.8			
Construction Unit B 2 Max Evening Night	50.8		44.6	44.6	
Construction Unit B Max Day	52.3	55.3			
Cooling Tower CT 510-CT 510 East Side	31.9	25.2	25.2	25.2	
Cooling Tower CT 510-CT 510 West Side	16.3	9.7	9.7	9.7	
Cooling Tower CT 511-CT 511 East Side	35.3	28.6	28.6	28.6	
Cooling Tower CT 511-CT 511 West Side	27.1	20.4	20.4	20.4	
Cooling Tower M 512	22.3	15.6	15.6	15.6	
Cooling Tower M 513	22.3	15.6	15.6	15.6	
Cooling Tower M 514	22.3	15.6	15.6	15.6	
Crude Operatoin Truck Truck Traffic	39.7	33.0	33.0	33.0	
Downey Ave NB	39.2	37.6	35.9	30.0	
Downey Ave SB	39.1	37.6	35.9	30.0	
Heater # 5-Heater	21.8	15.2	15.2	15.2	
Heater # 5-Heater	22.4	15.7	15.7	15.7	
Heater # 5-Heater	18.6	11.9	11.9	11.9	
Hydro Heater H-402	24.1	17.4	17.4	17.4	
Lakewood NB	40.1	38.6	36.8	30.9	
Lakewood SB	40.0	38.5	36.8	30.9	
Motor & Pump P - 1502 Splitter Reflux Pu	24.1	17.4	17.4	17.4	
Motor & Pump P - 1503 Splitter Bottoms P	26.6	19.9	19.9	19.9	
Motor & Pump P - 1504 Splitter Bottoms P	26.6	19.9	19.9	19.9	
Motor & Pump P - 1507 Reactor Pump	24.2	17.6	17.6	17.6	
Motor & Pump P - 1508 Reactor Pump	24.2	17.6	17.6	17.6	
Motor & Pump P - 1511 Stabilizer Reflux	26.3	19.7	19.7	19.7	
Motor & Pump P - 1512 Stabilizer Reflux	26.4	19.8	19.8	19.8	
Motor & Pump P - 1513 Caustic Circulatin	25.6	18.9	18.9	18.9	
Motor & Pump P - 1514 Caustic Circulatin	26.2	19.6	19.6	19.6	
Motor & Pump P 120/121	25.9	19.2	19.2	19.2	
Motor & Pump P 1505 FRESH FEED PUMPS	26.2	19.6	19.6	19.6	
Motor & Pump P 1506 FRESH FEED PUMPS	26.2	19.6	19.6	19.6	
Motor & Pump P 1509 Chloride Injection P	22.2	15.5	15.5	15.5	
Motor & Pump P 1510 Chloride Injection P	22.7	16.0	16.0	16.0	
Motor & Pump P 1601 A	27.1	20.5	20.5	20.5	
Motor & Pump P 1601 B	26.4	19.7	19.7	19.7	
Motor & Pump P 1602 A	25.6	18.9	18.9	18.9	
Motor & Pump P 1602 B	25.8	19.1	19.1	19.1	
Motor & Pump P 211/212	20.5	13.8	13.8	13.8	
Motor & Pump P 215/214	38.3	31.6	31.6	31.6	
Motor & Pump P 216	25.1	18.4	18.4	18.4	
Motor & Pump P 217/218	20.1	13.4	13.4	13.4	
Motor & Pump P 300	25.7	19.1	19.1	19.1	
Motor & Pump P 301	32.5	25.9	25.9	25.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 302	26.8	20.1	20.1	20.1	
Motor & Pump P 303	28.6	21.9	21.9	21.9	
Motor & Pump P 305	27.8	21.1	21.1	21.1	
Motor & Pump P 306	40.4	33.7	33.7	33.7	
Motor & Pump P 307	34.5	27.8	27.8	27.8	
Motor & Pump P 309	24.7	18.0	18.0	18.0	
Motor & Pump P 312	31.4	24.7	24.7	24.7	
Motor & Pump P 313	31.4	24.7	24.7	24.7	
Motor & Pump P 315	34.2	27.6	27.6	27.6	
Motor & Pump P 316	32.9	26.2	26.2	26.2	
Motor & Pump P 317	31.7	25.1	25.1	25.1	
Motor & Pump P 318	31.5	24.8	24.8	24.8	
Motor & Pump P 319	31.2	24.5	24.5	24.5	
Motor & Pump P 327	39.0	32.3	32.3	32.3	
Motor & Pump P 328	37.4	30.7	30.7	30.7	
Motor & Pump P 329	37.3	30.6	30.6	30.6	
Motor & Pump P 451	18.5	11.9	11.9	11.9	
Motor & Pump P 453	21.2	14.5	14.5	14.5	
Motor & Pump P 454	21.4	14.7	14.7	14.7	
Motor & Pump P 457	24.7	18.1	18.1	18.1	
Motor & Pump P 458	18.7	12.0	12.0	12.0	
Motor & Pump P 459	21.3	14.7	14.7	14.7	
Motor & Pump P 56A/B	20.5	13.9	13.9	13.9	
Rail Cars Bumping 6 times in during delivery	27.4	30.4			
Somerset Ave EB	26.4	24.9	23.2	17.3	
Somerset Ave WB	26.6	25.1	23.4	17.5	
Tank Farm Pump 1	29.0	22.3	22.3	22.3	
Tank Farm Pump 2	29.1	22.4	22.4	22.4	
Tank Farm Pump 3	27.5	20.8	20.8	20.8	
UP Train Locomotive Delivery and Pickup	21.9	24.9			
XF-1502 Splitter Area 1	33.1	26.4	26.4	26.4	
XF-1502 Splitter Area 2	32.9	26.3	26.3	26.3	
XF-1504 Splitter Area 1	33.0	26.3	26.3	26.3	
XF-1504 Splitter Area 2	32.9	26.2	26.2	26.2	
XF - 1601	36.5	29.9	29.9	29.9	
XF - 1602	36.6	30.0	30.0	30.0	
XF 304, XF 321	42.2	35.5	35.5	35.5	
XF 313, XF 314	40.6	33.9	33.9	33.9	
XF 335-1, XF 335-2	43.8	37.1	37.1	37.1	
XF 503	45.5	38.9	38.9	38.9	
XF Module 1510	35.9	29.3	29.3	29.3	
XF Module 1519	36.9	30.2	30.2	30.2	
Receiver CA-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.7 dB(A) Ld 7-19 dB(A) Leq,N 52.2 dB(A) Le 19-					
2011 Track Mobile switch moving rail cars 33 cars per day	27.0	30.0			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	42.7	36.0	36.0	36.0	
Air Compressor Pump	32.7	26.1	26.1	26.1	
Blower F 401	45.6	38.9	38.9	38.9	
Boiler Crude Unit-Heater Opening	34.3	27.6	27.6	27.6	
Compressor House C301, C302, C 124-Comp House East 1	34.7	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House East 2	30.7	24.0	24.0	24.0	
Compressor House C301, C302, C 124-Comp House North	43.8	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House South 1	29.8	23.1	23.1	23.1	
Compressor House C301, C302, C 124-Comp House South 2	22.8	16.1	16.1	16.1	
Compressor House C301, C302, C 124-Comp House West	18.2	11.5	11.5	11.5	
Construciton Control Room Max Evening Night	48.5		42.3	42.3	
Construciton Control Room Max Day	50.0	53.0			
Construction / Renewable Fuels Truck Tr	38.4	40.6	34.9	10.8	
Construction Demolition Warehouse Max Day	38.2	41.2			
Construction Demoltion Loading Racks Max Day	52.8	55.8			
Construction H2 Plant Max Day	56.2	59.2			
Construction H2 Plant Max Evening Night	54.7		48.5	48.5	
Construction PreTreat Building Max Day	47.8	50.8			
Construction PreTreat Building Max Evening Night	46.3		40.1	40.1	
Construction Unit A Construction Max Day	43.5	46.5			
Construction Unit B 2 Max Evening Night	47.1		40.9	40.9	
Construction Unit B Max Day	48.6	51.6			
Cooling Tower CT 510-CT 510 East Side	32.4	25.7	25.7	25.7	
Cooling Tower CT 510-CT 510 West Side	17.8	11.1	11.1	11.1	
Cooling Tower CT 511-CT 511 East Side	36.2	29.6	29.6	29.6	
Cooling Tower CT 511-CT 511 West Side	29.6	23.0	23.0	23.0	
Cooling Tower M 512	23.7	17.0	17.0	17.0	
Cooling Tower M 513	23.8	17.1	17.1	17.1	
Cooling Tower M 514	23.8	17.1	17.1	17.1	
Crude Operatoin Truck Truck Traffic	30.1	23.4	23.4	23.4	
Downey Ave NB	25.4	23.9	22.2	16.3	
Downey Ave SB	25.5	24.0	22.2	16.3	
Heater # 5-Heater	28.1	21.4	21.4	21.4	
Heater # 5-Heater	24.4	17.8	17.8	17.8	
Heater # 5-Heater	18.6	12.0	12.0	12.0	
Hydro Heater H-402	23.4	16.7	16.7	16.7	
Lakewood NB	32.1	30.6	28.9	23.0	
Lakewood SB	32.2	30.7	29.0	23.1	
Motor & Pump P - 1502 Splitter Reflux Pu	28.9	22.2	22.2	22.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	28.5	21.9	21.9	21.9	
Motor & Pump P - 1504 Splitter Bottoms P	28.7	22.0	22.0	22.0	
Motor & Pump P - 1507 Reactor Pump	26.3	19.7	19.7	19.7	
Motor & Pump P - 1508 Reactor Pump	27.0	20.3	20.3	20.3	
Motor & Pump P - 1511 Stabilizer Reflux	25.0	18.4	18.4	18.4	
Motor & Pump P - 1512 Stabilizer Reflux	25.1	18.5	18.5	18.5	
Motor & Pump P - 1513 Caustic Circulatin	27.8	21.1	21.1	21.1	
Motor & Pump P - 1514 Caustic Circulatin	27.3	20.7	20.7	20.7	
Motor & Pump P 120/121	26.8	20.1	20.1	20.1	
Motor & Pump P 1505 FRESH FEED PUMPS	27.2	20.5	20.5	20.5	
Motor & Pump P 1506 FRESH FEED PUMPS	26.1	19.4	19.4	19.4	
Motor & Pump P 1509 Chloride Injection P	22.9	16.2	16.2	16.2	
Motor & Pump P 1510 Chloride Injection P	23.6	16.9	16.9	16.9	
Motor & Pump P 1601 A	27.5	20.8	20.8	20.8	
Motor & Pump P 1601 B	27.4	20.7	20.7	20.7	
Motor & Pump P 1602 A	27.3	20.7	20.7	20.7	
Motor & Pump P 1602 B	27.5	20.9	20.9	20.9	
Motor & Pump P 211/212	22.4	15.7	15.7	15.7	
Motor & Pump P 215/214	22.3	15.6	15.6	15.6	
Motor & Pump P 216	23.2	16.5	16.5	16.5	
Motor & Pump P 217/218	22.0	15.3	15.3	15.3	
Motor & Pump P 300	26.6	19.9	19.9	19.9	
Motor & Pump P 301	32.3	25.7	25.7	25.7	
Motor & Pump P 302	27.1	20.5	20.5	20.5	
Motor & Pump P 303	27.1	20.4	20.4	20.4	
Motor & Pump P 305	28.8	22.2	22.2	22.2	
Motor & Pump P 306	40.2	33.5	33.5	33.5	
Motor & Pump P 307	35.5	28.8	28.8	28.8	
Motor & Pump P 309	23.8	17.2	17.2	17.2	
Motor & Pump P 312	33.0	26.3	26.3	26.3	
Motor & Pump P 313	33.0	26.3	26.3	26.3	
Motor & Pump P 315	35.2	28.5	28.5	28.5	
Motor & Pump P 316	33.0	26.3	26.3	26.3	
Motor & Pump P 317	33.6	26.9	26.9	26.9	
Motor & Pump P 318	32.0	25.3	25.3	25.3	
Motor & Pump P 319	32.6	25.9	25.9	25.9	
Motor & Pump P 327	39.5	32.9	32.9	32.9	
Motor & Pump P 328	36.5	29.8	29.8	29.8	
Motor & Pump P 329	36.6	30.0	30.0	30.0	
Motor & Pump P 451	22.6	15.9	15.9	15.9	
Motor & Pump P 453	23.9	17.2	17.2	17.2	
Motor & Pump P 454	22.8	16.1	16.1	16.1	
Motor & Pump P 457	23.6	17.0	17.0	17.0	
Motor & Pump P 458	22.6	15.9	15.9	15.9	
Motor & Pump P 459	21.1	14.4	14.4	14.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 56A/B	20.5	13.8	13.8	13.8	
Rail Cars Bumping 6 times in during delivery	26.6	29.6			
Somerset Ave EB	22.6	21.1	19.3	13.4	
Somerset Ave WB	22.9	21.4	19.7	13.8	
Tank Farm Pump 1	30.7	24.0	24.0	24.0	
Tank Farm Pump 2	27.7	21.1	21.1	21.1	
Tank Farm Pump 3	27.5	20.8	20.8	20.8	
UP Train Locomotive Delivery and Pickup	20.9	23.9			
XF-1502 Splitter Area 1	34.1	27.5	27.5	27.5	
XF-1502 Splitter Area 2	34.1	27.5	27.5	27.5	
XF-1504 Splitter Area 1	34.1	27.4	27.4	27.4	
XF-1504 Splitter Area 2	34.1	27.5	27.5	27.5	
XF - 1601	37.7	31.0	31.0	31.0	
XF - 1602	37.8	31.2	31.2	31.2	
XF 304, XF 321	42.9	36.2	36.2	36.2	
XF 313, XF 314	41.4	34.7	34.7	34.7	
XF 335-1, XF 335-2	43.6	37.0	37.0	37.0	
XF 503	39.8	33.2	33.2	33.2	
XF Module 1510	37.1	30.4	30.4	30.4	
XF Module 1519	37.8	31.1	31.1	31.1	
Receiver CA-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 62.2 dB(A) Ld 7-19 dB(A) Leq,N 50.6 dB(A) Le 19-					
2011 Track Mobile switch moving rail cars 33 cars per day	24.1	27.1			
Air Compressor C 1	42.4	35.8	35.8	35.8	
Air Compressor Pump	25.8	19.2	19.2	19.2	
Blower F 401	45.2	38.5	38.5	38.5	
Boiler Crude Unit-Heater Opening	28.7	22.0	22.0	22.0	
Compressor House C301, C302, C 124-Comp House East 1	33.3	26.6	26.6	26.6	
Compressor House C301, C302, C 124-Comp House East 2	29.1	22.4	22.4	22.4	
Compressor House C301, C302, C 124-Comp House North	42.2	35.5	35.5	35.5	
Compressor House C301, C302, C 124-Comp House South 1	28.5	21.8	21.8	21.8	
Compressor House C301, C302, C 124-Comp House South 2	21.5	14.8	14.8	14.8	
Compressor House C301, C302, C 124-Comp House West	16.7	10.0	10.0	10.0	
Construciton Control Room Max Evening Night	50.1		43.9	43.9	
Construciton Control Room Max Day	51.6	54.6			
Construction / Renewable Fuels Truck Tr	36.4	38.6	32.9	10.2	
Construction Demolition Warehouse Max Day	38.1	41.1			
Construction Demoltion Loading Racks Max Day	57.7	60.7			
Construction H2 Plant Max Day	51.7	54.7			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction H2 Plant Max Evening Night	50.2		44.0	44.0	
Construction PreTreat Building Max Day	44.2	47.3			
Construction PreTreat Building Max Evening Night	42.7		36.6	36.6	
Construction Unit A Construction Max Day	42.1	45.1			
Construction Unit B 2 Max Evening Night	47.3		41.1	41.1	
Construction Unit B Max Day	48.8	51.8			
Cooling Tower CT 510-CT 510 East Side	30.8	24.1	24.1	24.1	
Cooling Tower CT 510-CT 510 West Side	16.4	9.7	9.7	9.7	
Cooling Tower CT 511-CT 511 East Side	35.1	28.5	28.5	28.5	
Cooling Tower CT 511-CT 511 West Side	28.3	21.6	21.6	21.6	
Cooling Tower M 512	21.4	14.7	14.7	14.7	
Cooling Tower M 513	21.6	14.9	14.9	14.9	
Cooling Tower M 514	21.8	15.1	15.1	15.1	
Crude Operatoin Truck Truck Traffic	35.0	28.4	28.4	28.4	
Downey Ave NB	23.6	22.1	20.4	14.5	
Downey Ave SB	23.7	22.2	20.5	14.5	
Heater # 5-Heater	21.5	14.8	14.8	14.8	
Heater # 5-Heater	23.1	16.4	16.4	16.4	
Heater # 5-Heater	19.2	12.5	12.5	12.5	
Hydro Heater H-402	23.1	16.4	16.4	16.4	
Lakewood NB	35.5	34.0	32.3	26.4	
Lakewood SB	35.3	33.8	32.1	26.2	
Motor & Pump P - 1502 Splitter Reflux Pu	26.3	19.7	19.7	19.7	
Motor & Pump P - 1503 Splitter Bottoms P	26.3	19.6	19.6	19.6	
Motor & Pump P - 1504 Splitter Bottoms P	26.6	19.9	19.9	19.9	
Motor & Pump P - 1507 Reactor Pump	25.1	18.4	18.4	18.4	
Motor & Pump P - 1508 Reactor Pump	26.3	19.6	19.6	19.6	
Motor & Pump P - 1511 Stabilizer Reflux	23.1	16.4	16.4	16.4	
Motor & Pump P - 1512 Stabilizer Reflux	23.0	16.4	16.4	16.4	
Motor & Pump P - 1513 Caustic Circulatin	24.6	18.0	18.0	18.0	
Motor & Pump P - 1514 Caustic Circulatin	23.0	16.3	16.3	16.3	
Motor & Pump P 120/121	24.6	17.9	17.9	17.9	
Motor & Pump P 1505 FRESH FEED PUMPS	22.8	16.1	16.1	16.1	
Motor & Pump P 1506 FRESH FEED PUMPS	24.5	17.8	17.8	17.8	
Motor & Pump P 1509 Chloride Injection P	20.8	14.1	14.1	14.1	
Motor & Pump P 1510 Chloride Injection P	21.4	14.7	14.7	14.7	
Motor & Pump P 1601 A	25.1	18.5	18.5	18.5	
Motor & Pump P 1601 B	25.1	18.4	18.4	18.4	
Motor & Pump P 1602 A	25.1	18.4	18.4	18.4	
Motor & Pump P 1602 B	25.3	18.6	18.6	18.6	
Motor & Pump P 211/212	20.4	13.8	13.8	13.8	
Motor & Pump P 215/214	17.5	10.8	10.8	10.8	
Motor & Pump P 216	25.0	18.3	18.3	18.3	
Motor & Pump P 217/218	20.3	13.6	13.6	13.6	
Motor & Pump P 300	26.8	20.1	20.1	20.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 301	31.8	25.2	25.2	25.2	
Motor & Pump P 302	26.8	20.2	20.2	20.2	
Motor & Pump P 303	26.9	20.2	20.2	20.2	
Motor & Pump P 305	29.3	22.6	22.6	22.6	
Motor & Pump P 306	39.9	33.2	33.2	33.2	
Motor & Pump P 307	33.2	26.5	26.5	26.5	
Motor & Pump P 309	23.7	17.0	17.0	17.0	
Motor & Pump P 312	30.1	23.4	23.4	23.4	
Motor & Pump P 313	30.1	23.5	23.5	23.5	
Motor & Pump P 315	32.4	25.7	25.7	25.7	
Motor & Pump P 316	31.8	25.2	25.2	25.2	
Motor & Pump P 317	31.4	24.7	24.7	24.7	
Motor & Pump P 318	29.5	22.8	22.8	22.8	
Motor & Pump P 319	30.0	23.3	23.3	23.3	
Motor & Pump P 327	37.6	30.9	30.9	30.9	
Motor & Pump P 328	36.2	29.5	29.5	29.5	
Motor & Pump P 329	36.1	29.5	29.5	29.5	
Motor & Pump P 451	20.7	14.1	14.1	14.1	
Motor & Pump P 453	21.2	14.5	14.5	14.5	
Motor & Pump P 454	20.8	14.2	14.2	14.2	
Motor & Pump P 457	22.0	15.3	15.3	15.3	
Motor & Pump P 458	20.7	14.0	14.0	14.0	
Motor & Pump P 459	20.6	14.0	14.0	14.0	
Motor & Pump P 56A/B	19.2	12.5	12.5	12.5	
Rail Cars Bumping 6 times in during delivery	24.1	27.1			
Somerset Ave EB	22.9	21.4	19.7	13.7	
Somerset Ave WB	23.1	21.6	19.9	14.0	
Tank Farm Pump 1	30.6	23.9	23.9	23.9	
Tank Farm Pump 2	28.0	21.3	21.3	21.3	
Tank Farm Pump 3	32.4	25.7	25.7	25.7	
UP Train Locomotive Delivery and Pickup	18.6	21.6			
XF-1502 Splitter Area 1	32.6	26.0	26.0	26.0	
XF-1502 Splitter Area 2	32.7	26.0	26.0	26.0	
XF-1504 Splitter Area 1	32.6	25.9	25.9	25.9	
XF-1504 Splitter Area 2	32.7	26.0	26.0	26.0	
XF - 1601	36.8	30.1	30.1	30.1	
XF - 1602	36.9	30.3	30.3	30.3	
XF 304, XF 321	42.5	35.8	35.8	35.8	
XF 313, XF 314	39.9	33.2	33.2	33.2	
XF 335-1, XF 335-2	43.5	36.8	36.8	36.8	
XF 503	38.8	32.1	32.1	32.1	
XF Module 1510	35.6	29.0	29.0	29.0	
XF Module 1519	36.3	29.6	29.6	29.6	
Receiver CA-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.4 dB(A) Ld 7-19 dB(A) Leq,N 51.6 dB(A) Le 19-					

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
2011 Track Mobile switch moving rail cars 33 cars per day	22.1	25.1			
Air Compressor C 1	42.4	35.7	35.7	35.7	
Air Compressor Pump	28.3	21.6	21.6	21.6	
Blower F 401	45.0	38.3	38.3	38.3	
Boiler Crude Unit-Heater Opening	30.7	24.1	24.1	24.1	
Compressor House C301, C302, C 124-Comp House East 1	32.3	25.6	25.6	25.6	
Compressor House C301, C302, C 124-Comp House East 2	28.5	21.8	21.8	21.8	
Compressor House C301, C302, C 124-Comp House North	42.3	35.6	35.6	35.6	
Compressor House C301, C302, C 124-Comp House South 1	28.3	21.6	21.6	21.6	
Compressor House C301, C302, C 124-Comp House South 2	21.3	14.6	14.6	14.6	
Compressor House C301, C302, C 124-Comp House West	16.5	9.8	9.8	9.8	
Construciton Control Room Max Evening Night	43.0		36.8	36.8	
Construciton Control Room Max Day	44.5	47.5			
Construction / Renewable Fuels Truck Tr	37.6	39.7	34.1	12.0	
Construction Demolition Warehouse Max Day	38.5	41.5			
Construction Demoltion Loading Racks Max Day	51.1	54.1			
Construction H2 Plant Max Day	47.6	50.6			
Construction H2 Plant Max Evening Night	46.0		39.9	39.9	
Construction PreTreat Building Max Day	54.8	57.8			
Construction PreTreat Building Max Evening Night	53.3		47.1	47.1	
Construction Unit A Construction Max Day	42.8	45.8			
Construction Unit B 2 Max Evening Night	47.6		41.4	41.4	
Construction Unit B Max Day	49.1	52.1			
Cooling Tower CT 510-CT 510 East Side	30.5	23.8	23.8	23.8	
Cooling Tower CT 510-CT 510 West Side	16.2	9.5	9.5	9.5	
Cooling Tower CT 511-CT 511 East Side	32.9	26.3	26.3	26.3	
Cooling Tower CT 511-CT 511 West Side	29.1	22.4	22.4	22.4	
Cooling Tower M 512	21.1	14.4	14.4	14.4	
Cooling Tower M 513	21.2	14.5	14.5	14.5	
Cooling Tower M 514	21.4	14.7	14.7	14.7	
Crude Operatoin Truck Truck Traffic	33.7	27.1	27.1	27.1	
Downey Ave NB	33.4	31.8	30.1	24.2	
Downey Ave SB	33.4	31.9	30.2	24.3	
Heater # 5-Heater	22.2	15.6	15.6	15.6	
Heater # 5-Heater	24.7	18.1	18.1	18.1	
Heater # 5-Heater	19.2	12.5	12.5	12.5	
Hydro Heater H-402	22.7	16.0	16.0	16.0	
Lakewood NB	35.1	33.6	31.8	25.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Lakewood SB	35.1	33.6	31.9	26.0	
Motor & Pump P - 1502 Splitter Reflux Pu	27.2	20.6	20.6	20.6	
Motor & Pump P - 1503 Splitter Bottoms P	26.4	19.7	19.7	19.7	
Motor & Pump P - 1504 Splitter Bottoms P	26.4	19.7	19.7	19.7	
Motor & Pump P - 1507 Reactor Pump	25.5	18.8	18.8	18.8	
Motor & Pump P - 1508 Reactor Pump	26.9	20.3	20.3	20.3	
Motor & Pump P - 1511 Stabilizer Reflux	22.5	15.8	15.8	15.8	
Motor & Pump P - 1512 Stabilizer Reflux	22.5	15.8	15.8	15.8	
Motor & Pump P - 1513 Caustic Circulatin	22.0	15.4	15.4	15.4	
Motor & Pump P - 1514 Caustic Circulatin	22.5	15.8	15.8	15.8	
Motor & Pump P 120/121	24.5	17.8	17.8	17.8	
Motor & Pump P 1505 FRESH FEED PUMPS	22.7	16.1	16.1	16.1	
Motor & Pump P 1506 FRESH FEED PUMPS	24.6	17.9	17.9	17.9	
Motor & Pump P 1509 Chloride Injection P	21.0	14.3	14.3	14.3	
Motor & Pump P 1510 Chloride Injection P	22.8	16.1	16.1	16.1	
Motor & Pump P 1601 A	25.4	18.7	18.7	18.7	
Motor & Pump P 1601 B	25.4	18.7	18.7	18.7	
Motor & Pump P 1602 A	25.4	18.7	18.7	18.7	
Motor & Pump P 1602 B	25.5	18.9	18.9	18.9	
Motor & Pump P 211/212	22.7	16.0	16.0	16.0	
Motor & Pump P 215/214	21.4	14.7	14.7	14.7	
Motor & Pump P 216	27.3	20.6	20.6	20.6	
Motor & Pump P 217/218	22.5	15.8	15.8	15.8	
Motor & Pump P 300	26.0	19.3	19.3	19.3	
Motor & Pump P 301	30.9	24.3	24.3	24.3	
Motor & Pump P 302	24.1	17.4	17.4	17.4	
Motor & Pump P 303	27.0	20.3	20.3	20.3	
Motor & Pump P 305	29.6	23.0	23.0	23.0	
Motor & Pump P 306	39.4	32.7	32.7	32.7	
Motor & Pump P 307	32.9	26.2	26.2	26.2	
Motor & Pump P 309	23.2	16.5	16.5	16.5	
Motor & Pump P 312	30.9	24.3	24.3	24.3	
Motor & Pump P 313	32.6	25.9	25.9	25.9	
Motor & Pump P 315	32.2	25.5	25.5	25.5	
Motor & Pump P 316	32.1	25.4	25.4	25.4	
Motor & Pump P 317	31.3	24.7	24.7	24.7	
Motor & Pump P 318	28.4	21.7	21.7	21.7	
Motor & Pump P 319	28.5	21.9	21.9	21.9	
Motor & Pump P 327	37.0	30.3	30.3	30.3	
Motor & Pump P 328	36.0	29.3	29.3	29.3	
Motor & Pump P 329	35.9	29.2	29.2	29.2	
Motor & Pump P 451	21.0	14.4	14.4	14.4	
Motor & Pump P 453	21.9	15.3	15.3	15.3	
Motor & Pump P 454	21.3	14.7	14.7	14.7	
Motor & Pump P 457	21.0	14.3	14.3	14.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 458	20.4	13.8	13.8	13.8	
Motor & Pump P 459	20.9	14.2	14.2	14.2	
Motor & Pump P 56A/B	18.9	12.2	12.2	12.2	
Rail Cars Bumping 6 times in during delivery	22.5	25.5			
Somerset Ave EB	24.0	22.5	20.7	14.8	
Somerset Ave WB	24.3	22.8	21.1	15.1	
Tank Farm Pump 1	48.7	42.0	42.0	42.0	
Tank Farm Pump 2	31.0	24.4	24.4	24.4	
Tank Farm Pump 3	32.5	25.8	25.8	25.8	
UP Train Locomotive Delivery and Pickup	20.8	23.8			
XF-1502 Splitter Area 1	33.1	26.4	26.4	26.4	
XF-1502 Splitter Area 2	33.3	26.6	26.6	26.6	
XF-1504 Splitter Area 1	33.1	26.4	26.4	26.4	
XF-1504 Splitter Area 2	35.0	28.3	28.3	28.3	
XF - 1601	37.0	30.3	30.3	30.3	
XF - 1602	37.2	30.5	30.5	30.5	
XF 304, XF 321	42.0	35.4	35.4	35.4	
XF 313, XF 314	39.7	33.1	33.1	33.1	
XF 335-1, XF 335-2	43.9	37.2	37.2	37.2	
XF 503	40.8	34.1	34.1	34.1	
XF Module 1510	36.1	29.5	29.5	29.5	
XF Module 1519	36.5	29.9	29.9	29.9	
Receiver HWES Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.5 dB(A) Ld 7-19 dB(A) Leq,N 58.1 dB(A) Le 1					
2011 Track Mobile switch moving rail cars 33 cars per day	29.7	32.7			
Air Compressor C 1	53.4	46.7	46.7	46.7	
Air Compressor Pump	27.7	21.0	21.0	21.0	
Blower F 401	51.8	45.2	45.2	45.2	
Boiler Crude Unit-Heater Opening	28.3	21.6	21.6	21.6	
Compressor House C301, C302, C 124-Comp House East 1	28.9	22.2	22.2	22.2	
Compressor House C301, C302, C 124-Comp House East 2	29.2	22.5	22.5	22.5	
Compressor House C301, C302, C 124-Comp House North	48.2	41.6	41.6	41.6	
Compressor House C301, C302, C 124-Comp House South 1	32.9	26.2	26.2	26.2	
Compressor House C301, C302, C 124-Comp House South 2	22.9	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House West	43.6	36.9	36.9	36.9	
Construciton Control Room Max Evening Night	44.2		38.0	38.0	
Construciton Control Room Max Day	45.7	48.7			
Construction / Renewable Fuels Truck Tr	33.1	35.2	29.6	9.1	
Construction Demolition Warehouse Max Day	39.3	42.3			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction Demoltion Loading Racks Max Day	45.2	48.2			
Construction H2 Plant Max Day	53.8	56.8			
Construction H2 Plant Max Evening Night	52.3		46.1	46.1	
Construction PreTreat Building Max Day	43.8	46.8			
Construction PreTreat Building Max Evening Night	42.3		36.1	36.1	
Construction Unit A Construction Max Day	59.4	62.4			
Construction Unit B 2 Max Evening Night	48.1		42.0	42.0	
Construction Unit B Max Day	49.6	52.7			
Cooling Tower CT 510-CT 510 East Side	24.8	18.2	18.2	18.2	
Cooling Tower CT 510-CT 510 West Side	39.5	32.8	32.8	32.8	
Cooling Tower CT 511-CT 511 East Side	28.5	21.8	21.8	21.8	
Cooling Tower CT 511-CT 511 West Side	44.4	37.7	37.7	37.7	
Cooling Tower M 512	22.0	15.4	15.4	15.4	
Cooling Tower M 513	22.0	15.4	15.4	15.4	
Cooling Tower M 514	22.3	15.7	15.7	15.7	
Crude Operatoin Truck Truck Traffic	25.7	19.1	19.1	19.1	
Downey Ave NB	51.6	50.1	48.4	42.4	
Downey Ave SB	51.2	49.7	48.0	42.1	
Heater # 5-Heater	22.7	16.1	16.1	16.1	
Heater # 5-Heater	18.8	12.1	12.1	12.1	
Heater # 5-Heater	20.2	13.5	13.5	13.5	
Hydro Heater H-402	37.5	30.9	30.9	30.9	
Lakewood NB	27.9	26.4	24.7	18.8	
Lakewood SB	27.7	26.2	24.5	18.6	
Motor & Pump P - 1502 Splitter Reflux Pu	32.2	25.5	25.5	25.5	
Motor & Pump P - 1503 Splitter Bottoms P	36.7	30.1	30.1	30.1	
Motor & Pump P - 1504 Splitter Bottoms P	35.2	28.5	28.5	28.5	
Motor & Pump P - 1507 Reactor Pump	30.2	23.5	23.5	23.5	
Motor & Pump P - 1508 Reactor Pump	31.9	25.2	25.2	25.2	
Motor & Pump P - 1511 Stabilizer Reflux	42.9	36.2	36.2	36.2	
Motor & Pump P - 1512 Stabilizer Reflux	41.9	35.3	35.3	35.3	
Motor & Pump P - 1513 Caustic Circulatin	39.5	32.8	32.8	32.8	
Motor & Pump P - 1514 Caustic Circulatin	41.1	34.5	34.5	34.5	
Motor & Pump P 120/121	36.8	30.1	30.1	30.1	
Motor & Pump P 1505 FRESH FEED PUMPS	29.8	23.2	23.2	23.2	
Motor & Pump P 1506 FRESH FEED PUMPS	30.0	23.3	23.3	23.3	
Motor & Pump P 1509 Chloride Injection P	41.7	35.0	35.0	35.0	
Motor & Pump P 1510 Chloride Injection P	41.8	35.1	35.1	35.1	
Motor & Pump P 1601 A	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 B	41.3	34.6	34.6	34.6	
Motor & Pump P 1602 A	40.3	33.7	33.7	33.7	
Motor & Pump P 1602 B	39.4	32.7	32.7	32.7	
Motor & Pump P 211/212	32.6	26.0	26.0	26.0	
Motor & Pump P 215/214	24.9	18.2	18.2	18.2	
Motor & Pump P 216	25.2	18.6	18.6	18.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 217/218	25.2	18.5	18.5	18.5	
Motor & Pump P 300	38.3	31.7	31.7	31.7	
Motor & Pump P 301	43.4	36.7	36.7	36.7	
Motor & Pump P 302	38.3	31.6	31.6	31.6	
Motor & Pump P 303	38.4	31.8	31.8	31.8	
Motor & Pump P 305	38.7	32.0	32.0	32.0	
Motor & Pump P 306	51.5	44.8	44.8	44.8	
Motor & Pump P 307	43.6	36.9	36.9	36.9	
Motor & Pump P 309	38.5	31.8	31.8	31.8	
Motor & Pump P 312	34.4	27.7	27.7	27.7	
Motor & Pump P 313	34.4	27.7	27.7	27.7	
Motor & Pump P 315	35.9	29.3	29.3	29.3	
Motor & Pump P 316	39.7	33.0	33.0	33.0	
Motor & Pump P 317	41.2	34.6	34.6	34.6	
Motor & Pump P 318	33.7	27.0	27.0	27.0	
Motor & Pump P 319	33.3	26.6	26.6	26.6	
Motor & Pump P 327	49.8	43.1	43.1	43.1	
Motor & Pump P 328	51.6	44.9	44.9	44.9	
Motor & Pump P 329	50.6	43.9	43.9	43.9	
Motor & Pump P 451	28.0	21.3	21.3	21.3	
Motor & Pump P 453	25.2	18.5	18.5	18.5	
Motor & Pump P 454	27.9	21.2	21.2	21.2	
Motor & Pump P 457	25.6	18.9	18.9	18.9	
Motor & Pump P 458	28.9	22.3	22.3	22.3	
Motor & Pump P 459	27.8	21.2	21.2	21.2	
Motor & Pump P 56A/B	25.6	18.9	18.9	18.9	
Rail Cars Bumping 6 times in during delivery	31.5	34.5			
Somerset Ave EB	25.0	23.5	21.8	15.8	
Somerset Ave WB	25.2	23.7	22.0	16.1	
Tank Farm Pump 1	24.5	17.8	17.8	17.8	
Tank Farm Pump 2	25.3	18.6	18.6	18.6	
Tank Farm Pump 3	25.8	19.1	19.1	19.1	
UP Train Locomotive Delivery and Pickup	31.0	34.0			
XF-1502 Splitter Area 1	46.1	39.5	39.5	39.5	
XF-1502 Splitter Area 2	46.0	39.3	39.3	39.3	
XF-1504 Splitter Area 1	42.8	36.2	36.2	36.2	
XF-1504 Splitter Area 2	42.8	36.1	36.1	36.1	
XF - 1601	41.1	34.4	34.4	34.4	
XF - 1602	41.0	34.3	34.3	34.3	
XF 304, XF 321	53.5	46.8	46.8	46.8	
XF 313, XF 314	52.4	45.7	45.7	45.7	
XF 335-1, XF 335-2	56.9	50.2	50.2	50.2	
XF 503	48.3	41.7	41.7	41.7	
XF Module 1510	48.2	41.5	41.5	41.5	
XF Module 1519	50.2	43.6	43.6	43.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Receiver PHS Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 71.3 dB(A)		Ld 7-19 dB(A)	Leq,N 67.2 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	34.2	37.2			
Air Compressor C 1	47.7	41.0	41.0	41.0	
Air Compressor Pump	24.9	18.2	18.2	18.2	
Blower F 401	51.7	45.0	45.0	45.0	
Boiler Crude Unit-Heater Opening	24.3	17.7	17.7	17.7	
Compressor House C301, C302, C 124-Comp House East 1	29.3	22.7	22.7	22.7	
Compressor House C301, C302, C 124-Comp House East 2	33.0	26.3	26.3	26.3	
Compressor House C301, C302, C 124-Comp House North	55.3	48.7	48.7	48.7	
Compressor House C301, C302, C 124-Comp House South 1	34.3	27.6	27.6	27.6	
Compressor House C301, C302, C 124-Comp House South 2	28.5	21.8	21.8	21.8	
Compressor House C301, C302, C 124-Comp House West	39.1	32.4	32.4	32.4	
Construciton Control Room Max Evening Night	53.2		47.0	47.0	
Construciton Control Room Max Day	54.7	57.7			
Construction / Renewable Fuels Truck Tr	35.6	37.5	31.9	16.0	
Construction Demolition Warehouse Max Day	44.0	47.1			
Construction Demoltion Loading Racks Max Day	47.2	50.2			
Construction H2 Plant Max Day	55.3	58.4			
Construction H2 Plant Max Evening Night	53.8		47.7	47.7	
Construction PreTreat Building Max Day	53.0	56.0			
Construction PreTreat Building Max Evening Night	51.5		45.3	45.3	
Construction Unit A Construction Max Day	64.3	67.3			
Construction Unit B 2 Max Evening Night	49.3		43.2	43.2	
Construction Unit B Max Day	50.8	53.9			
Cooling Tower CT 510-CT 510 East Side	32.6	26.0	26.0	26.0	
Cooling Tower CT 510-CT 510 West Side	44.7	38.1	38.1	38.1	
Cooling Tower CT 511-CT 511 East Side	22.6	15.9	15.9	15.9	
Cooling Tower CT 511-CT 511 West Side	43.8	37.2	37.2	37.2	
Cooling Tower M 512	26.8	20.2	20.2	20.2	
Cooling Tower M 513	41.1	34.4	34.4	34.4	
Cooling Tower M 514	29.5	22.9	22.9	22.9	
Crude Operatoin Truck Truck Traffic	23.7	17.0	17.0	17.0	
Downey Ave NB	62.0	60.5	58.7	52.8	
Downey Ave SB	64.6	63.1	61.4	55.5	
Heater # 5-Heater	18.8	12.2	12.2	12.2	
Heater # 5-Heater	17.4	10.7	10.7	10.7	
Heater # 5-Heater	17.5	10.8	10.8	10.8	
Hydro Heater H-402	35.9	29.2	29.2	29.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Lakewood NB	27.4	25.9	24.2	18.3	
Lakewood SB	27.2	25.6	23.9	18.0	
Motor & Pump P - 1502 Splitter Reflux Pu	35.4	28.7	28.7	28.7	
Motor & Pump P - 1503 Splitter Bottoms P	33.3	26.6	26.6	26.6	
Motor & Pump P - 1504 Splitter Bottoms P	35.3	28.6	28.6	28.6	
Motor & Pump P - 1507 Reactor Pump	35.9	29.2	29.2	29.2	
Motor & Pump P - 1508 Reactor Pump	37.4	30.7	30.7	30.7	
Motor & Pump P - 1511 Stabilizer Reflux	40.4	33.7	33.7	33.7	
Motor & Pump P - 1512 Stabilizer Reflux	42.4	35.7	35.7	35.7	
Motor & Pump P - 1513 Caustic Circulatin	44.9	38.3	38.3	38.3	
Motor & Pump P - 1514 Caustic Circulatin	44.2	37.5	37.5	37.5	
Motor & Pump P 120/121	46.3	39.6	39.6	39.6	
Motor & Pump P 1505 FRESH FEED PUMPS	40.5	33.9	33.9	33.9	
Motor & Pump P 1506 FRESH FEED PUMPS	38.8	32.1	32.1	32.1	
Motor & Pump P 1509 Chloride Injection P	34.5	27.8	27.8	27.8	
Motor & Pump P 1510 Chloride Injection P	37.3	30.6	30.6	30.6	
Motor & Pump P 1601 A	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 B	42.0	35.3	35.3	35.3	
Motor & Pump P 1602 A	42.6	35.9	35.9	35.9	
Motor & Pump P 1602 B	43.8	37.1	37.1	37.1	
Motor & Pump P 211/212	25.4	18.8	18.8	18.8	
Motor & Pump P 215/214	25.9	19.2	19.2	19.2	
Motor & Pump P 216	30.8	24.1	24.1	24.1	
Motor & Pump P 217/218	24.5	17.8	17.8	17.8	
Motor & Pump P 300	46.9	40.2	40.2	40.2	
Motor & Pump P 301	52.0	45.4	45.4	45.4	
Motor & Pump P 302	48.0	41.3	41.3	41.3	
Motor & Pump P 303	48.2	41.6	41.6	41.6	
Motor & Pump P 305	45.5	38.9	38.9	38.9	
Motor & Pump P 306	64.2	57.5	57.5	57.5	
Motor & Pump P 307	46.6	39.9	39.9	39.9	
Motor & Pump P 309	50.8	44.2	44.2	44.2	
Motor & Pump P 312	49.5	42.8	42.8	42.8	
Motor & Pump P 313	50.8	44.2	44.2	44.2	
Motor & Pump P 315	49.7	43.0	43.0	43.0	
Motor & Pump P 316	50.3	43.6	43.6	43.6	
Motor & Pump P 317	49.7	43.0	43.0	43.0	
Motor & Pump P 318	45.0	38.3	38.3	38.3	
Motor & Pump P 319	45.0	38.3	38.3	38.3	
Motor & Pump P 327	66.2	59.5	59.5	59.5	
Motor & Pump P 328	65.9	59.2	59.2	59.2	
Motor & Pump P 329	67.4	60.7	60.7	60.7	
Motor & Pump P 451	36.3	29.6	29.6	29.6	
Motor & Pump P 453	37.4	30.8	30.8	30.8	
Motor & Pump P 454	36.2	29.6	29.6	29.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 457	35.7	29.1	29.1	29.1	
Motor & Pump P 458	36.9	30.2	30.2	30.2	
Motor & Pump P 459	36.2	29.5	29.5	29.5	
Motor & Pump P 56A/B	40.6	33.9	33.9	33.9	
Rail Cars Bumping 6 times in during delivery	34.2	37.3			
Somerset Ave EB	31.4	29.9	28.2	22.3	
Somerset Ave WB	31.4	29.9	28.2	22.3	
Tank Farm Pump 1	25.3	18.6	18.6	18.6	
Tank Farm Pump 2	27.6	21.0	21.0	21.0	
Tank Farm Pump 3	28.9	22.2	22.2	22.2	
UP Train Locomotive Delivery and Pickup	36.7	39.7			
XF-1502 Splitter Area 1	47.0	40.3	40.3	40.3	
XF-1502 Splitter Area 2	43.1	36.4	36.4	36.4	
XF-1504 Splitter Area 1	47.5	40.8	40.8	40.8	
XF-1504 Splitter Area 2	43.0	36.3	36.3	36.3	
XF - 1601	42.4	35.8	35.8	35.8	
XF - 1602	41.6	34.9	34.9	34.9	
XF 304, XF 321	54.6	48.0	48.0	48.0	
XF 313, XF 314	59.6	52.9	52.9	52.9	
XF 335-1, XF 335-2	60.1	53.4	53.4	53.4	
XF 503	53.1	46.5	46.5	46.5	
XF Module 1510	46.9	40.3	40.3	40.3	
XF Module 1519	50.1	43.4	43.4	43.4	
Receiver RMHP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 70.8 dB(A)	Ld 7-19 dB(A)	Leq,N 61.8 dB(A)	Le 19
2011 Track Mobile switch moving rail cars 33 cars per day	21.5	24.5			
Air Compressor C 1	40.0	33.3	33.3	33.3	
Air Compressor Pump	26.2	19.5	19.5	19.5	
Blower F 401	39.0	32.3	32.3	32.3	
Boiler Crude Unit-Heater Opening	28.6	21.9	21.9	21.9	
Compressor House C301, C302, C 124-Comp House East 1	26.7	20.1	20.1	20.1	
Compressor House C301, C302, C 124-Comp House East 2	25.9	19.3	19.3	19.3	
Compressor House C301, C302, C 124-Comp House North	33.6	26.9	26.9	26.9	
Compressor House C301, C302, C 124-Comp House South 1	27.2	20.5	20.5	20.5	
Compressor House C301, C302, C 124-Comp House South 2	20.8	14.1	14.1	14.1	
Compressor House C301, C302, C 124-Comp House West	10.9	4.2	4.2	4.2	
Construciton Control Room Max Evening Night	42.5		36.3	36.3	
Construciton Control Room Max Day	44.0	47.0			
Construction / Renewable Fuels Truck Tr	45.2	45.9	40.9	33.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Construction Demolition Warehouse Max Day	57.2	60.2			
Construction Demoltion Loading Racks Max Day	62.7	65.7			
Construction H2 Plant Max Day	41.3	44.3			
Construction H2 Plant Max Evening Night	39.8		33.6	33.6	
Construction PreTreat Building Max Day	53.9	56.9			
Construction PreTreat Building Max Evening Night	52.4		46.2	46.2	
Construction Unit A Construction Max Day	35.9	39.0			
Construction Unit B 2 Max Evening Night	45.1		38.9	38.9	
Construction Unit B Max Day	46.6	49.6			
Cooling Tower CT 510-CT 510 East Side	21.5	14.9	14.9	14.9	
Cooling Tower CT 510-CT 510 West Side	10.7	4.0	4.0	4.0	
Cooling Tower CT 511-CT 511 East Side	29.9	23.3	23.3	23.3	
Cooling Tower CT 511-CT 511 West Side	20.2	13.6	13.6	13.6	
Cooling Tower M 512	15.3	8.6	8.6	8.6	
Cooling Tower M 513	15.5	8.8	8.8	8.8	
Cooling Tower M 514	15.0	8.3	8.3	8.3	
Crude Operatoin Truck Truck Traffic	51.5	44.9	44.9	44.9	
Downey Ave NB	31.6	30.1	28.4	22.5	
Downey Ave SB	31.6	30.1	28.4	22.5	
Heater # 5-Heater	19.5	12.8	12.8	12.8	
Heater # 5-Heater	21.6	15.0	15.0	15.0	
Heater # 5-Heater	19.1	12.4	12.4	12.4	
Hydro Heater H-402	18.4	11.7	11.7	11.7	
Lakewood NB	68.5	67.0	65.3	59.3	
Lakewood SB	66.6	65.1	63.4	57.5	
Motor & Pump P - 1502 Splitter Reflux Pu	20.2	13.6	13.6	13.6	
Motor & Pump P - 1503 Splitter Bottoms P	20.3	13.6	13.6	13.6	
Motor & Pump P - 1504 Splitter Bottoms P	21.9	15.2	15.2	15.2	
Motor & Pump P - 1507 Reactor Pump	20.2	13.6	13.6	13.6	
Motor & Pump P - 1508 Reactor Pump	20.3	13.6	13.6	13.6	
Motor & Pump P - 1511 Stabilizer Reflux	21.8	15.1	15.1	15.1	
Motor & Pump P - 1512 Stabilizer Reflux	21.7	15.0	15.0	15.0	
Motor & Pump P - 1513 Caustic Circulatin	21.6	14.9	14.9	14.9	
Motor & Pump P - 1514 Caustic Circulatin	21.6	15.0	15.0	15.0	
Motor & Pump P 120/121	18.7	12.0	12.0	12.0	
Motor & Pump P 1505 FRESH FEED PUMPS	13.0	6.3	6.3	6.3	
Motor & Pump P 1506 FRESH FEED PUMPS	13.0	6.3	6.3	6.3	
Motor & Pump P 1509 Chloride Injection P	12.8	6.1	6.1	6.1	
Motor & Pump P 1510 Chloride Injection P	14.1	7.5	7.5	7.5	
Motor & Pump P 1601 A	20.2	13.5	13.5	13.5	
Motor & Pump P 1601 B	20.2	13.5	13.5	13.5	
Motor & Pump P 1602 A	20.2	13.5	13.5	13.5	
Motor & Pump P 1602 B	20.3	13.7	13.7	13.7	
Motor & Pump P 211/212	14.8	8.1	8.1	8.1	
Motor & Pump P 215/214	10.1	3.4	3.4	3.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 216	19.5	12.8	12.8	12.8	
Motor & Pump P 217/218	14.4	7.8	7.8	7.8	
Motor & Pump P 300	19.9	13.2	13.2	13.2	
Motor & Pump P 301	24.9	18.2	18.2	18.2	
Motor & Pump P 302	19.9	13.2	13.2	13.2	
Motor & Pump P 303	17.8	11.1	11.1	11.1	
Motor & Pump P 305	20.7	14.0	14.0	14.0	
Motor & Pump P 306	33.7	27.0	27.0	27.0	
Motor & Pump P 307	24.0	17.3	17.3	17.3	
Motor & Pump P 309	16.9	10.3	10.3	10.3	
Motor & Pump P 312	27.9	21.3	21.3	21.3	
Motor & Pump P 313	24.6	18.0	18.0	18.0	
Motor & Pump P 315	29.3	22.7	22.7	22.7	
Motor & Pump P 316	29.3	22.7	22.7	22.7	
Motor & Pump P 317	29.3	22.7	22.7	22.7	
Motor & Pump P 318	26.6	19.9	19.9	19.9	
Motor & Pump P 319	26.6	19.9	19.9	19.9	
Motor & Pump P 327	30.1	23.4	23.4	23.4	
Motor & Pump P 328	29.6	23.0	23.0	23.0	
Motor & Pump P 329	29.4	22.8	22.8	22.8	
Motor & Pump P 451	15.0	8.3	8.3	8.3	
Motor & Pump P 453	19.0	12.4	12.4	12.4	
Motor & Pump P 454	14.8	8.2	8.2	8.2	
Motor & Pump P 457	19.0	12.4	12.4	12.4	
Motor & Pump P 458	15.0	8.3	8.3	8.3	
Motor & Pump P 459	14.6	8.0	8.0	8.0	
Motor & Pump P 56A/B	9.8	3.2	3.2	3.2	
Rail Cars Bumping 6 times in during delivery	22.6	25.6			
Somerset Ave EB	37.8	36.3	34.6	28.7	
Somerset Ave WB	37.9	36.4	34.7	28.8	
Tank Farm Pump 1	25.2	18.5	18.5	18.5	
Tank Farm Pump 2	23.7	17.0	17.0	17.0	
Tank Farm Pump 3	23.6	16.9	16.9	16.9	
UP Train Locomotive Delivery and Pickup	14.8	17.8			
XF-1502 Splitter Area 1	29.3	22.6	22.6	22.6	
XF-1502 Splitter Area 2	28.0	21.3	21.3	21.3	
XF-1504 Splitter Area 1	29.3	22.6	22.6	22.6	
XF-1504 Splitter Area 2	28.0	21.3	21.3	21.3	
XF - 1601	27.2	20.6	20.6	20.6	
XF - 1602	27.3	20.6	20.6	20.6	
XF 304, XF 321	36.9	30.3	30.3	30.3	
XF 313, XF 314	35.3	28.6	28.6	28.6	
XF 335-1, XF 335-2	38.4	31.7	31.7	31.7	
XF 503	36.0	29.3	29.3	29.3	
XF Module 1510	24.3	17.6	17.6	17.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF Module 1519	33.4	26.8	26.8	26.8	
Receiver RLCTP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 69.0 dB(A)		Ld 7-19 dB(A)	Leq,N 58.3 dB(A) Le 1
2011 Track Mobile switch moving rail cars 33 cars per day	22.0	25.0			
Air Compressor C 1	42.0	35.3	35.3	35.3	
Air Compressor Pump	25.4	18.7	18.7	18.7	
Blower F 401	39.5	32.9	32.9	32.9	
Boiler Crude Unit-Heater Opening	27.6	20.9	20.9	20.9	
Compressor House C301, C302, C 124-Comp House East 1	26.0	19.3	19.3	19.3	
Compressor House C301, C302, C 124-Comp House East 2	29.9	23.2	23.2	23.2	
Compressor House C301, C302, C 124-Comp House North	24.3	17.6	17.6	17.6	
Compressor House C301, C302, C 124-Comp House South 1	38.2	31.5	31.5	31.5	
Compressor House C301, C302, C 124-Comp House South 2	34.0	27.3	27.3	27.3	
Compressor House C301, C302, C 124-Comp House West	11.8	5.1	5.1	5.1	
Construciton Control Room Max Evening Night	47.2		41.0	41.0	
Construciton Control Room Max Day	48.7	51.7			
Construction / Renewable Fuels Truck Tr	50.0	49.9	45.4	40.1	
Construction Demolition Warehouse Max Day	62.5	65.5			
Construction Demoltion Loading Racks Max Day	59.2	62.3			
Construction H2 Plant Max Day	45.8	48.8			
Construction H2 Plant Max Evening Night	44.3		38.1	38.1	
Construction PreTreat Building Max Day	49.5	52.5			
Construction PreTreat Building Max Evening Night	48.0		41.8	41.8	
Construction Unit A Construction Max Day	38.7	41.7			
Construction Unit B 2 Max Evening Night	40.9		34.7	34.7	
Construction Unit B Max Day	42.4	45.4			
Cooling Tower CT 510-CT 510 East Side	21.8	15.1	15.1	15.1	
Cooling Tower CT 510-CT 510 West Side	12.7	6.0	6.0	6.0	
Cooling Tower CT 511-CT 511 East Side	33.1	26.4	26.4	26.4	
Cooling Tower CT 511-CT 511 West Side	17.5	10.8	10.8	10.8	
Cooling Tower M 512	26.6	19.9	19.9	19.9	
Cooling Tower M 513	26.6	19.9	19.9	19.9	
Cooling Tower M 514	26.6	19.9	19.9	19.9	
Crude Operatoin Truck Truck Traffic	46.6	39.9	39.9	39.9	
Downey Ave NB	14.8	13.3	11.6	5.7	
Downey Ave SB	14.9	13.4	11.7	5.7	
Heater # 5-Heater	20.5	13.8	13.8	13.8	
Heater # 5-Heater	20.9	14.3	14.3	14.3	
Heater # 5-Heater	19.0	12.3	12.3	12.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Hydro Heater H-402	26.0	19.3	19.3	19.3	
Lakewood NB	64.1	62.6	60.9	54.9	
Lakewood SB	63.6	62.1	60.4	54.5	
Motor & Pump P - 1502 Splitter Reflux Pu	25.7	19.0	19.0	19.0	
Motor & Pump P - 1503 Splitter Bottoms P	25.7	19.0	19.0	19.0	
Motor & Pump P - 1504 Splitter Bottoms P	17.1	10.4	10.4	10.4	
Motor & Pump P - 1507 Reactor Pump	25.7	19.0	19.0	19.0	
Motor & Pump P - 1508 Reactor Pump	25.6	19.0	19.0	19.0	
Motor & Pump P - 1511 Stabilizer Reflux	25.4	18.8	18.8	18.8	
Motor & Pump P - 1512 Stabilizer Reflux	25.4	18.7	18.7	18.7	
Motor & Pump P - 1513 Caustic Circulatin	25.3	18.6	18.6	18.6	
Motor & Pump P - 1514 Caustic Circulatin	25.3	18.7	18.7	18.7	
Motor & Pump P 120/121	23.7	17.0	17.0	17.0	
Motor & Pump P 1505 FRESH FEED PUMPS	17.6	11.0	11.0	11.0	
Motor & Pump P 1506 FRESH FEED PUMPS	17.3	10.6	10.6	10.6	
Motor & Pump P 1509 Chloride Injection P	21.1	14.4	14.4	14.4	
Motor & Pump P 1510 Chloride Injection P	20.7	14.0	14.0	14.0	
Motor & Pump P 1601 A	25.6	18.9	18.9	18.9	
Motor & Pump P 1601 B	25.6	18.9	18.9	18.9	
Motor & Pump P 1602 A	25.6	18.9	18.9	18.9	
Motor & Pump P 1602 B	25.8	19.1	19.1	19.1	
Motor & Pump P 211/212	20.6	13.9	13.9	13.9	
Motor & Pump P 215/214	24.6	17.9	17.9	17.9	
Motor & Pump P 216	25.2	18.6	18.6	18.6	
Motor & Pump P 217/218	23.9	17.2	17.2	17.2	
Motor & Pump P 300	24.7	18.0	18.0	18.0	
Motor & Pump P 301	29.7	23.0	23.0	23.0	
Motor & Pump P 302	24.7	18.0	18.0	18.0	
Motor & Pump P 303	24.7	18.0	18.0	18.0	
Motor & Pump P 305	25.1	18.4	18.4	18.4	
Motor & Pump P 306	34.1	27.4	27.4	27.4	
Motor & Pump P 307	21.5	14.9	14.9	14.9	
Motor & Pump P 309	19.6	12.9	12.9	12.9	
Motor & Pump P 312	31.9	25.2	25.2	25.2	
Motor & Pump P 313	31.9	25.2	25.2	25.2	
Motor & Pump P 315	28.2	21.5	21.5	21.5	
Motor & Pump P 316	27.6	20.9	20.9	20.9	
Motor & Pump P 317	27.6	20.9	20.9	20.9	
Motor & Pump P 318	22.7	16.0	16.0	16.0	
Motor & Pump P 319	22.6	15.9	15.9	15.9	
Motor & Pump P 327	29.7	23.1	23.1	23.1	
Motor & Pump P 328	31.0	24.3	24.3	24.3	
Motor & Pump P 329	30.3	23.7	23.7	23.7	
Motor & Pump P 451	24.3	17.6	17.6	17.6	
Motor & Pump P 453	13.3	6.6	6.6	6.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 454	24.2	17.6	17.6	17.6	
Motor & Pump P 457	12.9	6.3	6.3	6.3	
Motor & Pump P 458	24.3	17.6	17.6	17.6	
Motor & Pump P 459	24.1	17.5	17.5	17.5	
Motor & Pump P 56A/B	17.0	10.4	10.4	10.4	
Rail Cars Bumping 6 times in during delivery	22.8	25.8			
Somerset Ave EB	43.3	41.8	40.1	34.2	
Somerset Ave WB	43.3	41.8	40.0	34.1	
Tank Farm Pump 1	28.4	21.7	21.7	21.7	
Tank Farm Pump 2	28.0	21.3	21.3	21.3	
Tank Farm Pump 3	30.3	23.7	23.7	23.7	
UP Train Locomotive Delivery and Pickup	17.3	20.3			
XF-1502 Splitter Area 1	32.1	25.5	25.5	25.5	
XF-1502 Splitter Area 2	32.2	25.5	25.5	25.5	
XF-1504 Splitter Area 1	32.1	25.5	25.5	25.5	
XF-1504 Splitter Area 2	32.2	25.5	25.5	25.5	
XF - 1601	29.2	22.5	22.5	22.5	
XF - 1602	29.2	22.6	22.6	22.6	
XF 304, XF 321	36.6	29.9	29.9	29.9	
XF 313, XF 314	35.9	29.3	29.3	29.3	
XF 335-1, XF 335-2	37.9	31.2	31.2	31.2	
XF 503	41.1	34.4	34.4	34.4	
XF Module 1510	35.7	29.0	29.0	29.0	
XF Module 1519	36.4	29.7	29.7	29.7	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Receiver SS-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 71.6 dB(A)		Ld 7-19 dB(A)		Leq,N 66.2 dB(A)		Le 19-22 dB(A)		CNEL 74.1 dB(A)		Lmax day hr dB(A)		Ld 7-1
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	90.5	-50.1	1.3	-0.1	-1.8		0.0	0.7	-10.8	0.0	48.1	
Air Compressor C 1	CNEL	110.0	5	194.1	-56.8	3.2	-13.9	-0.3	-1.12	0.0	4.7	0.0	6.7	52.5	
Air Compressor Pump	CNEL	100.3		143.3	-54.1	2.4	-15.6	-1.2		0.0	12.4	0.0	6.7	50.8	
Blower F 401	CNEL	113.0		84.1	-49.5	0.5	-13.1	-0.1		0.0	0.2	0.0	6.7	57.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.4	-1.9	-1.8		0.0	0.0	0.0	6.7	43.7	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.1	-52.9	1.7	-11.1	-0.6	-0.56	3.5	1.9	0.0	6.7	53.5	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	128.9	-53.2	1.9	-1.0	-1.1	-0.59	0.0	0.0	0.0	6.7	53.2	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	132.9	-53.5	1.7	-17.0	-0.3	-0.22	-7.8	5.5	0.0	6.7	41.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.0	-52.8	1.6	-11.0	-0.7		0.0	0.0	0.0	6.7	54.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.4	-53.0	1.7	-9.5	-0.5	-0.59	-0.5	0.0	0.0	6.7	48.1	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.8	-53.3	1.6	-11.9	-0.4		-4.0	6.4	0.0	6.7	45.6	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	255.0	-59.1	3.3	-2.6	-2.6		0.0	0.0	-3.0	9.2	58.2	
Construciton Control Room Max Day	CNEL	123.7	5461	255.0	-59.1	3.3	-2.6	-2.6		0.0	0.0	-3.0	0.0	59.7	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	570.1	-66.1	4.0	-11.4	-3.5		0.0	0.1	-3.0	0.0	43.7	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	605.7	-66.6	4.4	-10.9	-3.0		0.0	0.3	-3.0	0.0	44.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	178.4	-56.0	2.7	-3.5	-1.9		0.0	0.6	-3.0	0.0	62.7	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	178.4	-56.0	2.7	-3.5	-1.9		0.0	0.6	-3.0	9.2	61.1	
Construction PreTreat Building Max Day	CNEL	123.7	6360	365.2	-62.2	3.8	-1.6	-3.9		0.0	0.1	-3.0	0.0	56.8	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	365.2	-62.2	3.8	-1.6	-3.9		0.0	0.1	-3.0	9.2	55.3	
Construction Unit A Construction Max Day	CNEL	123.7	3185	179.2	-56.1	2.5	-3.6	-2.0	0.00	0.0	0.3	-3.0	0.0	61.8	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	218.1	-57.8	2.5	-0.4	-2.4		0.0	0.2	-3.0	9.2	61.3	
Construction Unit B Max Day	CNEL	123.7	20817	218.1	-57.8	2.5	-0.4	-2.4		0.0	0.2	-3.0	0.0	62.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.0	-54.0	2.3	-16.3	-0.4		-6.2	6.1	0.0	6.7	36.0	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	135.9	-53.7	2.0	0.0	-1.0		4.1	0.0	0.0	6.7	55.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.1	-15.7	-0.5		-7.2	0.2	0.0	6.7	31.6	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.1	-54.1	2.2	-5.9	-0.7		3.4	0.0	0.0	6.7	52.1	
Cooling Tower M 512	CNEL	95.7		132.5	-53.4	2.4	0.0	-0.7		0.0	2.4	0.0	6.7	53.0	
Cooling Tower M 513	CNEL	95.7		131.8	-53.4	2.4	0.0	-0.7		0.0	2.4	0.0	6.7	53.0	
Cooling Tower M 514	CNEL	95.7		133.0	-53.5	2.4	-3.3	-0.7		0.0	4.1	0.0	6.7	51.4	
Heater # 5-Heater	CNEL	91.1	13	293.0	-60.3	2.5	-13.8	-0.6		0.0	0.0	0.0	6.7	28.5	
Heater # 5-Heater	CNEL	91.1	13	288.2	-60.2	2.5	-11.6	-0.6		0.0	0.0	0.0	6.7	30.8	
Heater # 5-Heater	CNEL	91.1	13	283.2	-60.0	2.4	-7.3	-0.9		0.0	0.0	0.0	6.7	34.9	
Hydro Heater H-402	CNEL	98.1		123.5	-52.8	1.9	-10.6	-0.2	-0.75	0.0	0.0	0.0	6.7	42.2	
Motor & Pump P 56A/B	CNEL	93.7		137.6	-53.8	2.4	-4.9	-1.0	-1.13	0.0	0.0	0.0	6.7	41.9	
Motor & Pump P 120/121	CNEL	96.2	2	181.2	-56.2	3.2	-20.1	-0.6	-1.16	0.0	8.3	0.0	6.7	36.4	
Motor & Pump P 211/212	CNEL	93.7		111.0	-51.9	2.3	-5.9	-0.7	-0.20	0.0	0.0	0.0	6.7	43.9	
Motor & Pump P 215/214	CNEL	94.6		116.1	-52.3	2.3	-4.2	-0.9	-0.20	0.0	0.0	0.0	6.7	46.0	
Motor & Pump P 216	CNEL	98.3		111.5	-51.9	2.3	0.0	-1.1	-0.46	0.0	0.0	0.0	6.7	53.7	
Motor & Pump P 217/218	CNEL	93.7		112.9	-52.0	2.5	-5.0	-0.8	-0.22	0.0	0.0	0.0	6.7	44.8	
Motor & Pump P 300	CNEL	97.1	2	183.4	-56.3	3.3	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.7	
Motor & Pump P 301	CNEL	102.1	2	181.7	-56.2	3.2	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	53.8	
Motor & Pump P 302	CNEL	97.1	2	185.2	-56.3	3.3	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.7	
Motor & Pump P 303	CNEL	97.1	2	186.7	-56.4	3.2	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.5	
Motor & Pump P 305	CNEL	97.5	2	188.2	-56.5	3.2	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.9	
Motor & Pump P 306	CNEL	112.6	4	197.3	-56.9	3.0	-1.0	-1.7	-1.11	0.0	0.6	0.0	6.7	62.2	
Motor & Pump P 307	CNEL	102.1	2	176.8	-55.9	3.2	0.0	-0.9	-1.04	0.0	0.0	0.0	6.7	54.0	
Motor & Pump P 309	CNEL	97.5	2	189.7	-56.6	3.3	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.8	
Motor & Pump P 312	CNEL	101.5	2	154.7	-54.8	3.1	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.6	
Motor & Pump P 313	CNEL	101.5	2	152.9	-54.7	3.0	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.6	
Motor & Pump P 315	CNEL	102.9	2	146.4	-54.3	2.7	0.0	-0.8	-1.03	0.0	0.0	0.0	6.7	56.2	
Motor & Pump P 316	CNEL	102.9	2	144.4	-54.2	2.7	0.0	-0.8	-1.03	0.0	0.0	0.0	6.7	56.3	
Motor & Pump P 317	CNEL	102.9	2	142.4	-54.1	2.6	0.0	-0.8	-1.03	0.0	0.0	0.0	6.7	56.3	
Motor & Pump P 318	CNEL	100.2	1	148.4	-54.4	3.1	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.7	
Motor & Pump P 319	CNEL	100.2	1	149.9	-54.5	3.1	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.6	
Motor & Pump P 327	CNEL	111.2	3	205.3	-57.2	3.5	-14.0	-1.0	-1.06	0.0	0.1	0.0	6.7	48.3	
Motor & Pump P 328	CNEL	109.9	5	191.5	-56.6	3.1	-1.0	-1.0	-1.05	0.0	0.1	0.0	6.7	60.2	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 329	CNEL	110.2	5	194.4	-56.8	3.1	-1.0	-1.0	-1.02	0.0	0.4	0.0	6.7	60.6	
Motor & Pump P 451	CNEL	93.7		117.1	-52.4	2.4	-8.0	-0.8	-0.44	0.0	0.0	0.0	6.7	41.1	
Motor & Pump P 453	CNEL	93.7		106.7	-51.6	2.4	-4.8	-0.8	-0.04	0.0	0.0	0.0	6.7	45.5	
Motor & Pump P 454	CNEL	93.7		117.2	-52.4	2.4	-14.2	-0.6	-0.58	0.0	0.9	0.0	6.7	35.8	
Motor & Pump P 457	CNEL	93.7		105.2	-51.4	2.4	-3.7	-1.0	-0.01	0.0	0.0	0.0	6.7	46.5	
Motor & Pump P 458	CNEL	93.7		117.4	-52.4	2.4	-15.1	-0.6	-0.36	0.0	0.0	0.0	6.7	34.3	
Motor & Pump P 459	CNEL	93.7		118.1	-52.4	2.4	-14.3	-0.6	-0.60	0.0	0.9	0.0	6.7	35.6	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		148.8	-54.4	2.8	-17.7	-0.8	-0.10	0.0	0.0	0.0	6.7	32.6	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.4	-54.5	2.8	-7.8	-1.0		0.0	4.5	0.0	6.7	46.9	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.1	-56.3	3.3	-8.0	-1.1	-0.41	0.0	0.0	0.0	6.7	39.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.2	-56.4	3.4	-8.3	-1.1	-0.41	0.0	0.0	0.0	6.7	39.3	
Motor & Pump P 1601 A	CNEL	96.3	2	160.0	-55.1	2.6	-7.9	-0.9		0.0	0.0	0.0	6.7	41.8	
Motor & Pump P 1601 B	CNEL	96.3	2	160.7	-55.1	2.6	-8.4	-0.9		0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 1602 A	CNEL	96.3	2	161.0	-55.1	2.6	-6.7	-1.0		0.0	0.0	0.0	6.7	42.8	
Motor & Pump P 1602 B	CNEL	96.5	2	161.7	-55.2	2.6	-15.0	-0.8		0.0	0.2	0.0	6.7	35.0	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.4	-54.6	3.0	0.0	-1.5	-0.07	0.0	0.0	0.0	6.7	50.0	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	156.9	-54.9	3.0	0.0	-1.5	-0.18	0.0	0.0	0.0	6.7	49.7	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.2	-55.0	3.0	0.0	-1.5	-0.23	0.0	0.0	0.0	6.7	49.5	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.0	-54.6	2.9	-10.0	-1.0	-0.01	0.0	0.1	0.0	6.7	40.7	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.7	-54.7	2.9	-8.5	-1.0	-0.03	0.0	0.0	0.0	6.7	42.0	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.4	-55.4	3.2	-5.9	-1.2	-0.36	0.0	0.8	0.0	6.7	44.0	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.6	-55.4	3.2	0.0	-1.6	-0.35	0.0	0.0	0.0	6.7	48.8	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.2	-55.3	3.1	0.0	-1.6	-0.34	0.0	0.1	0.0	6.7	49.0	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.7	-55.3	3.2	0.0	-1.6	-0.35	0.0	0.2	0.0	6.7	49.0	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.2	-50.0	0.7	-0.6	-0.3		0.0	0.7	-38.6	0.0	46.7	
Tank Farm Pump 1	CNEL	99.0	3	341.5	-61.7	4.2	-3.9	-2.3		0.0	0.0	0.0	6.7	41.9	
Tank Farm Pump 2	CNEL	99.0	3	361.8	-62.2	4.2	-4.1	-2.4		0.0	0.0	0.0	6.7	41.1	
Tank Farm Pump 3	CNEL	99.0	3	367.4	-62.3	4.2	-4.1	-2.5		0.0	0.0	0.0	6.7	41.1	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	120.8	-52.6	1.2	-0.1	-1.8		0.0	0.8	-16.8	0.0	43.0	
XF-1502 Splitter Area 1	CNEL	104.5		161.6	-55.2	2.1	0.0	-1.2	-0.27	-4.3	0.0	0.0	6.7	52.3	
XF-1502 Splitter Area 2	CNEL	104.5		158.0	-55.0	2.0	0.0	-1.2	-0.10	-4.3	0.0	0.0	6.7	52.7	
XF-1504 Splitter Area 1	CNEL	104.5		163.1	-55.2	2.1	0.0	-1.2	-0.27	-4.4	0.0	0.0	6.7	52.1	
XF-1504 Splitter Area 2	CNEL	104.5		159.6	-55.1	2.1	-4.6	-1.0		-4.0	0.0	0.0	6.7	48.6	
XF 304, XF 321	CNEL	110.5	56	180.9	-56.1	1.6	-0.5	-0.9	-1.30	-3.4	0.3	0.0	6.7	56.9	
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	1.9	-3.9	-1.1	-1.71	-4.1	0.0	0.0	6.7	53.3	
XF 335-1, XF 335-2	CNEL	113.4	54	193.1	-56.7	1.7	-4.5	-0.8	-1.44	-3.0	0.6	0.0	6.7	55.9	
XF 503	CNEL	113.0	21	129.9	-53.3	1.8	0.0	-2.1	-0.99	-4.0	0.5	0.0	6.7	61.6	
XF - 1601	CNEL	96.6		160.2	-55.1	1.8	-0.1	-0.6		-2.9	0.0	0.0	6.7	46.5	
XF - 1602	CNEL	96.6		163.1	-55.2	1.8	-0.5	-0.7		-3.3	0.0	0.0	6.7	45.4	
XF Module 1510	CNEL	108.3		152.5	-54.7	2.0	0.0	-1.1	-0.10	-4.3	0.0	0.0	6.7	56.8	
XF Module 1519	CNEL	109.0		157.6	-54.9	2.0	0.0	-1.2	-0.13	-4.4	0.0	0.0	6.7	57.1	
Lakewood NB	CNEL		606								4.5			29.7	
Lakewood SB	CNEL		606								4.4			29.7	
Somerset Ave EB	CNEL		917								1.7			33.3	
Somerset Ave WB	CNEL		917								0.9			32.5	
Downey Ave NB	CNEL		608								2.5			37.3	
Downey Ave SB	CNEL		608								2.3			36.7	
Construction / Renewable Fuels Truck Tr	CNEL		1368								1.9			44.5	
Crude Operatoin Truck Truck Traffic	CNEL		520								3.4			35.0	
Receiver SS-1 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.7 dB(A) Ld 7-19 dB(A) Leq,N 66.3 dB(A) Le 19-22 dB(A) CNEL 74.2 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	90.7	-50.1	1.4	-0.1	-1.8		0.0	0.4	-10.8	0.0	47.9	
Air Compressor C 1	CNEL	110.0	5	194.2	-56.8	2.6	-13.3	-0.3	-1.13	0.0	5.1	0.0	6.7	52.8	
Air Compressor Pump	CNEL	100.3		143.3	-54.1	2.5	-15.3	-1.2		0.0	11.9	0.0	6.7	50.8	
Blower F 401	CNEL	113.0		84.2	-49.5	0.9	-13.1	-0.1		0.0	0.2	0.0	6.7	58.1	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.6	-0.5	-1.4		0.0	0.0	0.0	6.7	45.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.1	-52.9	2.1	-10.7	-0.6	-0.56	3.5	2.1	0.0	6.7	54.4	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	128.9	-53.2	2.3	-1.0	-1.1	-0.60	0.0	0.0	0.0	6.7	53.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	133.0	-53.5	2.2	-15.0	-0.4	-0.18	-7.8	6.4	0.0	6.7	44.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.0	-52.8	2.1	-11.0	-0.6		0.0	0.0	0.0	6.7	55.0	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.4	-53.0	2.1	-9.0	-0.5	-0.59	-0.5	0.0	0.0	6.7	49.0	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.8	-53.3	2.1	-11.0	-0.4		-4.0	5.7	0.0	6.7	46.2	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	255.0	-59.1	2.8	-2.4	-2.5		0.0	0.0	-3.0	9.2	57.9	
Construciton Control Room Max Day	CNEL	123.7	5461	255.0	-59.1	2.8	-2.4	-2.5		0.0	0.0	-3.0	0.0	59.4	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	570.1	-66.1	4.2	-11.5	-3.2		0.0	0.1	-3.0	0.0	44.2	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	605.7	-66.6	4.5	-8.6	-3.4		0.0	0.2	-3.0	0.0	46.7	
Construction H2 Plant Max Day	CNEL	123.7	9281	178.5	-56.0	2.7	-3.3	-2.0		0.0	0.2	-3.0	0.0	62.2	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	178.5	-56.0	2.7	-3.3	-2.0		0.0	0.2	-3.0	9.2	60.7	
Construction PreTreat Building Max Day	CNEL	123.7	6360	365.3	-62.2	3.6	-1.2	-3.7		0.0	0.1	-3.0	0.0	57.3	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	365.3	-62.2	3.6	-1.2	-3.7		0.0	0.1	-3.0	9.2	55.8	
Construction Unit A Construction Max Day	CNEL	123.7	3185	179.2	-56.1	2.5	-2.7	-2.1	-0.01	0.0	0.3	-3.0	0.0	62.7	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	218.1	-57.8	2.5	-0.4	-2.3		0.0	0.1	-3.0	9.2	61.4	
Construction Unit B Max Day	CNEL	123.7	20817	218.1	-57.8	2.5	-0.4	-2.3		0.0	0.1	-3.0	0.0	62.9	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.1	-54.0	2.5	-12.3	-0.5		-6.2	3.3	0.0	6.7	37.3	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	136.0	-53.7	2.4	0.0	-1.0		4.1	0.0	0.0	6.7	56.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.4	-15.4	-0.4		-7.2	0.2	0.0	6.7	32.2	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.1	-54.1	2.4	-4.4	-0.9		3.4	0.0	0.0	6.7	53.8	
Cooling Tower M 512	CNEL	95.7		132.6	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2	
Cooling Tower M 513	CNEL	95.7		131.8	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2	
Cooling Tower M 514	CNEL	95.7		133.1	-53.5	2.6	-2.1	-0.7		0.0	3.3	0.0	6.7	52.1	
Heater # 5-Heater	CNEL	91.1	13	293.1	-60.3	2.7	-13.3	-0.6		0.0	0.0	0.0	6.7	29.2	
Heater # 5-Heater	CNEL	91.1	13	288.2	-60.2	2.6	-11.0	-0.6		0.0	0.0	0.0	6.7	31.7	
Heater # 5-Heater	CNEL	91.1	13	283.2	-60.0	2.6	-7.0	-0.9		0.0	0.0	0.0	6.7	35.5	
Hydro Heater H-402	CNEL	98.1		123.6	-52.8	2.5	-10.1	-0.2	-0.76	0.0	0.0	0.0	6.7	43.3	
Motor & Pump P 56A/B	CNEL	93.7		137.7	-53.8	2.6	-3.7	-1.2	-1.11	0.0	0.0	0.0	6.7	43.2	
Motor & Pump P 120/121	CNEL	96.2	2	181.3	-56.2	2.7	-19.8	-0.6	-1.17	0.0	8.8	0.0	6.7	36.6	
Motor & Pump P 211/212	CNEL	93.7		111.1	-51.9	2.5	-5.8	-0.7	-0.20	0.0	0.0	0.0	6.7	44.1	
Motor & Pump P 215/214	CNEL	94.6		116.2	-52.3	2.5	-4.1	-0.9	-0.20	0.0	0.0	0.0	6.7	46.3	
Motor & Pump P 216	CNEL	98.3		111.6	-51.9	2.4	0.0	-1.1	-0.46	0.0	0.0	0.0	6.7	53.9	
Motor & Pump P 217/218	CNEL	93.7		113.0	-52.1	2.5	-4.9	-0.8	-0.22	0.0	0.0	0.0	6.7	44.8	
Motor & Pump P 300	CNEL	97.1	2	183.4	-56.3	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.2	
Motor & Pump P 301	CNEL	102.1	2	181.7	-56.2	2.6	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.2	
Motor & Pump P 302	CNEL	97.1	2	185.2	-56.3	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.1	
Motor & Pump P 303	CNEL	97.1	2	186.7	-56.4	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.0	
Motor & Pump P 305	CNEL	97.5	2	188.2	-56.5	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.3	
Motor & Pump P 306	CNEL	112.6	4	197.4	-56.9	2.6	-1.0	-1.6	-1.12	0.0	0.5	0.0	6.7	61.9	
Motor & Pump P 307	CNEL	102.1	2	176.9	-55.9	2.6	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.5	
Motor & Pump P 309	CNEL	97.5	2	189.7	-56.6	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.2	
Motor & Pump P 312	CNEL	101.5	2	154.8	-54.8	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.1	
Motor & Pump P 313	CNEL	101.5	2	153.0	-54.7	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.2	
Motor & Pump P 315	CNEL	102.9	2	146.5	-54.3	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.0	
Motor & Pump P 316	CNEL	102.9	2	144.5	-54.2	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.1	
Motor & Pump P 317	CNEL	102.9	2	142.5	-54.1	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.3	
Motor & Pump P 318	CNEL	100.2	1	148.5	-54.4	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.2	
Motor & Pump P 319	CNEL	100.2	1	150.0	-54.5	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.1	
Motor & Pump P 327	CNEL	111.2	3	205.4	-57.2	2.7	-13.9	-1.0	-0.98	0.0	0.1	0.0	6.7	47.6	
Motor & Pump P 328	CNEL	109.9	5	191.5	-56.6	2.6	-1.0	-1.0	-1.05	0.0	0.1	0.0	6.7	59.8	
Motor & Pump P 329	CNEL	110.2	5	194.4	-56.8	2.7	-1.0	-0.9	-1.03	0.0	0.4	0.0	6.7	60.1	
Motor & Pump P 451	CNEL	93.7		117.2	-52.4	2.5	-6.0	-0.9	-0.43	0.0	0.0	0.0	6.7	43.2	
Motor & Pump P 453	CNEL	93.7		106.8	-51.6	2.5	-4.4	-0.8	-0.04	0.0	0.0	0.0	6.7	46.0	
Motor & Pump P 454	CNEL	93.7		117.3	-52.4	2.5	-14.1	-0.6	-0.58	0.0	0.9	0.0	6.7	36.1	
Motor & Pump P 457	CNEL	93.7		105.3	-51.4	2.5	-3.5	-1.0	-0.01	0.0	0.0	0.0	6.7	47.0	
Motor & Pump P 458	CNEL	93.7		117.5	-52.4	2.5	-14.5	-0.6	-0.36	0.0	0.0	0.0	6.7	35.1	
Motor & Pump P 459	CNEL	93.7		118.2	-52.4	2.5	-14.1	-0.6	-0.60	0.0	0.9	0.0	6.7	36.0	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		148.9	-54.4	2.6	-17.6	-0.8	-0.10	0.0	0.0	0.0	6.7	32.6	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.5	-54.5	2.6	-7.7	-1.0		0.0	4.3	0.0	6.7	46.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.1	-56.3	2.7	-7.1	-1.1	-0.41	0.0	0.0	0.0	6.7	39.7	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.2	-56.4	2.7	-7.5	-1.1	-0.42	0.0	0.0	0.0	6.7	39.3	
Motor & Pump P 1601 A	CNEL	96.3	2	160.0	-55.1	2.7	-6.2	-1.0		0.0	0.0	0.0	6.7	43.4	
Motor & Pump P 1601 B	CNEL	96.3	2	160.7	-55.1	2.7	-6.4	-1.0		0.0	0.0	0.0	6.7	43.2	
Motor & Pump P 1602 A	CNEL	96.3	2	161.1	-55.1	2.7	-4.9	-1.3		0.0	0.0	0.0	6.7	44.3	
Motor & Pump P 1602 B	CNEL	96.5	2	161.8	-55.2	2.7	-14.8	-0.8		0.0	0.1	0.0	6.7	35.3	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.4	-54.7	2.7	0.0	-1.5	-0.07	0.0	0.0	0.0	6.7	49.7	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	157.0	-54.9	2.7	0.0	-1.5	-0.18	0.0	0.0	0.0	6.7	49.4	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.3	-55.0	2.7	0.0	-1.5	-0.24	0.0	0.0	0.0	6.7	49.2	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.1	-54.6	2.6	-8.3	-1.0	-0.02	0.0	0.0	0.0	6.7	42.1	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.8	-54.7	2.7	-6.6	-1.1	-0.03	0.0	0.0	0.0	6.7	43.5	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.5	-55.4	2.7	-5.4	-1.2	-0.37	0.0	1.0	0.0	6.7	44.4	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.6	-55.4	2.7	0.0	-1.6	-0.35	0.0	0.0	0.0	6.7	48.4	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.2	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.2	0.0	6.7	48.7	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.8	-55.3	2.7	0.0	-1.6	-0.35	0.0	0.3	0.0	6.7	48.8	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.4	-50.0	0.9	-0.3	-0.3		0.0	0.5	-38.6	0.0	47.0	
Tank Farm Pump 1	CNEL	99.0	3	341.5	-61.7	3.8	-2.9	-2.2		0.0	0.0	0.0	6.7	42.7	
Tank Farm Pump 2	CNEL	99.0	3	361.8	-62.2	3.9	-3.7	-2.3		0.0	0.0	0.0	6.7	41.4	
Tank Farm Pump 3	CNEL	99.0	3	367.5	-62.3	3.9	-3.2	-2.3		0.0	0.0	0.0	6.7	41.8	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.0	-52.6	1.3	0.0	-1.8		0.0	0.5	-16.8	0.0	42.8	
XF-1502 Splitter Area 1	CNEL	104.5		161.5	-55.2	2.4	0.0	-1.2	-0.01	-4.3	0.0	0.0	6.7	52.9	
XF-1502 Splitter Area 2	CNEL	104.5		158.0	-55.0	2.3	0.0	-1.2		-4.3	0.0	0.0	6.7	53.1	
XF-1504 Splitter Area 1	CNEL	104.5		163.0	-55.2	2.4	0.0	-1.2	-0.07	-4.3	0.0	0.0	6.7	52.8	
XF-1504 Splitter Area 2	CNEL	104.5		159.5	-55.0	2.3	-4.6	-1.0		-3.9	0.0	0.0	6.7	49.0	
XF 304, XF 321	CNEL	110.5	56	180.8	-56.1	2.2	-0.2	-0.8	-1.27	-3.3	0.3	0.0	6.7	58.0	
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	2.3	-4.4	-0.9	-1.71	-3.9	0.0	0.0	6.7	53.6	
XF 335-1, XF 335-2	CNEL	113.4	54	193.1	-56.7	2.3	-4.2	-0.8	-1.45	-3.0	0.9	0.0	6.7	57.1	
XF 503	CNEL	113.0	21	129.8	-53.3	2.1	0.0	-2.0	-1.00	-4.0	0.0	0.0	6.7	61.6	
XF - 1601	CNEL	96.6		160.0	-55.1	2.3	0.0	-0.6		-2.6	0.0	0.0	6.7	47.3	
XF - 1602	CNEL	96.6		162.9	-55.2	2.3	-0.1	-0.6		-2.7	0.0	0.0	6.7	46.9	
XF Module 1510	CNEL	108.3		152.4	-54.7	2.3	0.0	-1.1	-0.10	-4.3	0.0	0.0	6.7	57.1	
XF Module 1519	CNEL	109.0		157.5	-54.9	2.3	0.0	-1.2	-0.13	-4.3	0.0	0.0	6.7	57.5	
Lakewood NB	CNEL		606								2.4			27.9	
Lakewood SB	CNEL		606								2.3			27.9	
Somerset Ave EB	CNEL		917								1.6			34.8	
Somerset Ave WB	CNEL		917								0.4			33.7	
Downey Ave NB	CNEL		608								1.9			39.3	
Downey Ave SB	CNEL		608								1.7			38.8	
Construction / Renewable Fuels Truck Tr	CNEL		1368								1.6			44.5	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.4			33.0	
Receiver SS-1 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.1 dB(A) Ld 7-19 dB(A) Leq,N 66.6 dB(A) Le 19-22 dB(A) CNEL 74.5 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	91.0	-50.2	1.4	-0.1	-1.8		0.0	0.4	-10.8	0.0	48.0	
Air Compressor C 1	CNEL	110.0	5	194.3	-56.8	2.7	-12.0	-0.4	-1.14	0.0	6.1	0.0	6.7	55.2	
Air Compressor Pump	CNEL	100.3		143.5	-54.1	2.5	-15.1	-1.1		0.0	11.7	0.0	6.7	50.9	
Blower F 401	CNEL	113.0		84.4	-49.5	1.1	-12.8	-0.1		0.0	0.3	0.0	6.7	58.6	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.9	-60.3	2.3	-0.1	-1.3		0.0	0.0	0.0	6.7	45.9	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.2	-52.9	2.1	-10.3	-0.6	-0.56	3.5	2.1	0.0	6.7	54.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	129.1	-53.2	2.3	-0.9	-1.1	-0.60	0.0	0.0	0.0	6.7	53.7	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	133.1	-53.5	2.2	-14.9	-0.4	-0.18	-7.8	7.2	0.0	6.7	45.9	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.1	-52.8	2.1	-10.9	-0.6		0.0	0.0	0.0	6.7	55.1	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.5	-53.0	2.2	-8.6	-0.5	-0.59	-0.5	0.0	0.0	6.7	49.4	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.9	-53.3	2.1	-10.8	-0.4		-4.0	5.5	0.0	6.7	46.2	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	255.1	-59.1	2.7	-1.9	-2.9		0.0	0.0	-3.0	9.2	58.0	
Construciton Control Room Max Day	CNEL	123.7	5461	255.1	-59.1	2.7	-1.9	-2.9		0.0	0.0	-3.0	0.0	59.6	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	570.1	-66.1	4.0	-11.1	-3.2		0.0	0.1	-3.0	0.0	44.4	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	605.7	-66.6	4.2	-7.9	-3.5		0.0	0.2	-3.0	0.0	47.1	
Construction H2 Plant Max Day	CNEL	123.7	9281	178.6	-56.0	2.7	-2.6	-2.1		0.0	0.2	-3.0	0.0	62.8	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	178.6	-56.0	2.7	-2.6	-2.1		0.0	0.2	-3.0	9.2	61.3	
Construction PreTreat Building Max Day	CNEL	123.7	6360	365.3	-62.2	3.1	-1.0	-3.6		0.0	0.1	-3.0	0.0	57.0	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	365.3	-62.2	3.1	-1.0	-3.6		0.0	0.1	-3.0	9.2	55.5	
Construction Unit A Construction Max Day	CNEL	123.7	3185	179.3	-56.1	2.6	-2.1	-2.1	-0.01	0.0	0.2	-3.0	0.0	63.2	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	218.2	-57.8	2.5	-0.3	-2.2		0.0	0.1	-3.0	9.2	61.4	
Construction Unit B Max Day	CNEL	123.7	20817	218.2	-57.8	2.5	-0.3	-2.2		0.0	0.1	-3.0	0.0	63.0	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.2	-54.0	2.5	-11.4	-0.5		-6.2	1.6	0.0	6.7	36.6	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	136.1	-53.7	2.4	0.0	-1.0		4.1	0.0	0.0	6.7	56.4	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.6	-54.7	2.5	-14.6	-0.5		-7.2	0.1	0.0	6.7	32.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.2	-54.1	2.4	-3.3	-0.9		3.4	0.0	0.0	6.7	54.9	
Cooling Tower M 512	CNEL	95.7		132.7	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2	
Cooling Tower M 513	CNEL	95.7		132.0	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2	
Cooling Tower M 514	CNEL	95.7		133.2	-53.5	2.6	-1.7	-0.7		0.0	3.1	0.0	6.7	52.3	
Heater # 5-Heater	CNEL	91.1	13	293.1	-60.3	2.4	-13.1	-0.6		0.0	0.0	0.0	6.7	29.2	
Heater # 5-Heater	CNEL	91.1	13	288.3	-60.2	2.4	-10.8	-0.5		0.0	0.0	0.0	6.7	31.6	
Heater # 5-Heater	CNEL	91.1	13	283.3	-60.0	2.3	-6.9	-0.8		0.0	0.0	0.0	6.7	35.3	
Hydro Heater H-402	CNEL	98.1		123.8	-52.8	2.6	-9.7	-0.3	-0.75	0.0	0.1	0.0	6.7	43.9	
Motor & Pump P 56A/B	CNEL	93.7		137.8	-53.8	2.6	-4.3	-1.5	-1.09	0.0	0.0	0.0	6.7	42.3	
Motor & Pump P 120/121	CNEL	96.2	2	181.4	-56.2	2.7	-17.5	-0.7	-1.16	0.0	10.3	0.0	6.7	40.4	
Motor & Pump P 211/212	CNEL	93.7		111.3	-51.9	2.5	-5.8	-0.7	-0.20	0.0	0.0	0.0	6.7	44.1	
Motor & Pump P 215/214	CNEL	94.6		116.4	-52.3	2.5	-4.1	-0.9	-0.20	0.0	0.0	0.0	6.7	46.3	
Motor & Pump P 216	CNEL	98.3		111.8	-52.0	2.4	0.0	-1.1	-0.46	0.0	0.0	0.0	6.7	53.9	
Motor & Pump P 217/218	CNEL	93.7		113.2	-52.1	2.5	-4.9	-0.8	-0.22	0.0	0.0	0.0	6.7	44.8	
Motor & Pump P 300	CNEL	97.1	2	183.6	-56.3	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.2	
Motor & Pump P 301	CNEL	102.1	2	181.9	-56.2	2.7	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.3	
Motor & Pump P 302	CNEL	97.1	2	185.4	-56.4	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.1	
Motor & Pump P 303	CNEL	97.1	2	186.8	-56.4	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.0	
Motor & Pump P 305	CNEL	97.5	2	188.3	-56.5	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.3	
Motor & Pump P 306	CNEL	112.6	4	197.5	-56.9	2.7	-0.9	-1.6	-1.12	0.0	0.5	0.0	6.7	62.0	
Motor & Pump P 307	CNEL	102.1	2	177.0	-55.9	2.7	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.5	
Motor & Pump P 309	CNEL	97.5	2	189.8	-56.6	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.3	
Motor & Pump P 312	CNEL	101.5	2	154.9	-54.8	2.6	0.0	-0.8	-1.05	0.0	0.0	0.0	6.7	54.1	
Motor & Pump P 313	CNEL	101.5	2	153.1	-54.7	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.2	
Motor & Pump P 315	CNEL	102.9	2	146.6	-54.3	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.0	
Motor & Pump P 316	CNEL	102.9	2	144.6	-54.2	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.1	
Motor & Pump P 317	CNEL	102.9	2	142.6	-54.1	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.3	
Motor & Pump P 318	CNEL	100.2	1	148.7	-54.4	2.6	0.0	-0.8	-1.05	0.0	0.0	0.0	6.7	53.2	
Motor & Pump P 319	CNEL	100.2	1	150.1	-54.5	2.6	0.0	-0.8	-1.05	0.0	0.0	0.0	6.7	53.1	
Motor & Pump P 327	CNEL	111.2	3	205.5	-57.2	2.7	-13.9	-1.0		0.0	0.1	0.0	6.7	48.6	
Motor & Pump P 328	CNEL	109.9	5	191.6	-56.6	2.7	-0.9	-1.0	-1.05	0.0	0.1	0.0	6.7	59.8	
Motor & Pump P 329	CNEL	110.2	5	194.5	-56.8	2.7	-1.0	-0.9	-1.03	0.0	0.4	0.0	6.7	60.2	
Motor & Pump P 451	CNEL	93.7		117.4	-52.4	2.5	-4.6	-1.1	-0.43	0.0	0.1	0.0	6.7	44.5	
Motor & Pump P 453	CNEL	93.7		107.0	-51.6	2.5	-4.0	-0.8	-0.04	0.0	0.0	0.0	6.7	46.4	
Motor & Pump P 454	CNEL	93.7		117.4	-52.4	2.5	-13.4	-0.7	-0.58	0.0	1.0	0.0	6.7	36.7	
Motor & Pump P 457	CNEL	93.7		105.5	-51.5	2.5	-3.1	-0.9	-0.01	0.0	0.0	0.0	6.7	47.3	
Motor & Pump P 458	CNEL	93.7		117.7	-52.4	2.5	-11.1	-0.6	-0.36	0.0	0.0	0.0	6.7	38.4	
Motor & Pump P 459	CNEL	93.7		118.4	-52.5	2.5	-13.5	-0.7	-0.60	0.0	1.0	0.0	6.7	36.7	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		149.0	-54.5	2.6	-7.9	-0.9	-0.10	0.0	0.0	0.0	6.7	42.1	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.6	-54.5	2.7	-3.5	-1.1		0.0	2.3	0.0	6.7	48.6	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.2	-56.3	2.7	-2.0	-1.5	-0.40	0.0	0.0	0.0	6.7	44.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.3	-56.4	2.7	-2.1	-1.5	-0.41	0.0	0.0	0.0	6.7	44.4	
Motor & Pump P 1601 A	CNEL	96.3	2	160.1	-55.1	2.7	-2.2	-1.2		0.0	0.0	0.0	6.7	47.1	
Motor & Pump P 1601 B	CNEL	96.3	2	160.8	-55.1	2.7	-2.1	-1.3		0.0	0.0	0.0	6.7	47.2	
Motor & Pump P 1602 A	CNEL	96.3	2	161.2	-55.1	2.7	-4.5	-1.6		0.0	0.0	0.0	6.7	44.5	
Motor & Pump P 1602 B	CNEL	96.5	2	161.9	-55.2	2.7	-7.9	-1.0		0.0	0.0	0.0	6.7	41.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.6	-54.7	2.7	0.0	-1.5	-0.08	0.0	0.0	0.0	6.7	49.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	157.1	-54.9	2.7	0.0	-1.5	-0.18	0.0	0.0	0.0	6.7	49.4	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.4	-55.0	2.7	0.0	-1.5	-0.24	0.0	0.0	0.0	6.7	49.2	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.2	-54.6	2.7	-3.9	-1.2	-0.02	0.0	0.0	0.0	6.7	46.3	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.9	-54.7	2.7	-2.8	-1.3	-0.02	0.0	0.0	0.0	6.7	47.2	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.6	-55.4	2.7	-5.1	-1.2	-0.37	0.0	0.9	0.0	6.7	44.5	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.8	-55.4	2.7	0.0	-1.6	-0.35	0.0	0.0	0.0	6.7	48.4	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.3	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.3	0.0	6.7	48.8	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.9	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.4	0.0	6.7	48.8	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.7	-50.0	1.0	-0.1	-0.3		0.0	0.5	-38.6	0.0	47.2	
Tank Farm Pump 1	CNEL	99.0	3	341.6	-61.7	3.2	-1.9	-3.1		0.0	0.0	0.0	6.7	42.2	
Tank Farm Pump 2	CNEL	99.0	3	361.9	-62.2	3.3	-4.0	-2.8		0.0	0.0	0.0	6.7	40.1	
Tank Farm Pump 3	CNEL	99.0	3	367.5	-62.3	3.4	-4.1	-2.8		0.0	0.0	0.0	6.7	39.9	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.3	-52.7	1.3	0.0	-1.8		0.0	0.2	-16.8	0.0	42.6	
XF-1502 Splitter Area 1	CNEL	104.5		161.4	-55.2	2.4	0.0	-1.2	0.00	-4.2	0.0	0.0	6.7	53.0	
XF-1502 Splitter Area 2	CNEL	104.5		157.9	-55.0	2.3	0.0	-1.2		-4.2	0.0	0.0	6.7	53.2	
XF-1504 Splitter Area 1	CNEL	104.5		163.0	-55.2	2.4	0.0	-1.2	-0.02	-4.3	0.0	0.0	6.7	52.8	
XF-1504 Splitter Area 2	CNEL	104.5		159.5	-55.0	2.4	-4.6	-1.0		-3.9	0.0	0.0	6.7	49.1	
XF 304, XF 321	CNEL	110.5	56	180.7	-56.1	2.3	-0.1	-0.7	0.00	-3.0	0.3	0.0	6.7	59.7	
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	2.4	-4.7	-0.8	-1.31	-3.7	0.0	0.0	6.7	53.9	
XF 335-1, XF 335-2	CNEL	113.4	54	193.0	-56.7	2.4	-3.9	-0.9	-0.01	-2.9	0.9	0.0	6.7	58.9	
XF 503	CNEL	113.0	21	129.8	-53.3	2.1	0.0	-2.0	-1.00	-3.8	0.0	0.0	6.7	61.7	
XF - 1601	CNEL	96.6		159.9	-55.1	2.4	0.0	-0.5		-2.5	0.0	0.0	6.7	47.5	
XF - 1602	CNEL	96.6		162.8	-55.2	2.4	0.0	-0.6		-2.6	0.0	0.0	6.7	47.3	
XF Module 1510	CNEL	108.3		152.4	-54.7	2.3	0.0	-1.1	-0.10	-4.2	0.0	0.0	6.7	57.2	
XF Module 1519	CNEL	109.0		157.5	-54.9	2.3	0.0	-1.2	-0.13	-4.2	0.0	0.0	6.7	57.6	
Lakewood NB	CNEL		606								2.8			28.3	
Lakewood SB	CNEL		606								2.5			28.3	
Somerset Ave EB	CNEL		917								1.6			36.1	
Somerset Ave WB	CNEL		917								0.6			35.3	
Downey Ave NB	CNEL		608								1.5			40.7	
Downey Ave SB	CNEL		608								1.2			40.2	
Construction / Renewable Fuels Truck Tr	CNEL		1368								1.7			45.2	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.4			33.2	
Receiver SS-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.6 dB(A) Ld 7-19 dB(A) Leq,N 64.8 dB(A) Le 19-22 dB(A) CNEL 73.2 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	83.9	-49.5	1.3	-0.1	-1.8		0.0	0.3	-10.8	0.0	48.5	
Air Compressor C 1	CNEL	110.0	5	208.3	-57.4	3.3	-14.6	-0.4	-1.15	0.0	4.9	0.0	6.7	51.4	
Air Compressor Pump	CNEL	100.3		127.7	-53.1	2.3	-17.3	-1.4		0.0	1.4	0.0	6.7	38.9	
Blower F 401	CNEL	113.0		96.0	-50.6	0.6	-13.2	-0.1		0.0	0.1	0.0	6.7	56.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.7	-59.4	2.3	-1.5	-1.6		0.0	0.0	0.0	6.7	45.0	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.6	-54.0	1.6	-11.1	-0.6	-0.65	4.4	3.0	0.0	6.7	54.1	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.7	-54.3	1.7	-0.1	-1.3	-0.81	0.0	0.2	0.0	6.7	52.6	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.3	-54.6	1.7	-16.9	-0.4	-0.37	-7.8	6.0	0.0	6.7	40.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.0	-54.0	1.4	-11.0	-0.8	-0.12	0.4	0.0	0.0	6.7	53.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.5	-54.1	1.7	-9.4	-0.5	-0.69	0.2	0.1	0.0	6.7	47.7	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.0	-54.5	1.6	-13.7	-0.4		-5.5	8.9	0.0	6.7	43.4	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	238.0	-58.5	3.3	-1.8	-2.5		0.0	0.0	-3.0	9.2	59.6	
Construciton Control Room Max Day	CNEL	123.7	5461	238.0	-58.5	3.3	-1.8	-2.5		0.0	0.0	-3.0	0.0	61.1	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	547.4	-65.8	4.0	-13.0	-2.6		0.0	0.2	-3.0	0.0	43.5	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	589.6	-66.4	4.4	-8.5	-3.4		0.0	0.2	-3.0	0.0	47.0	
Construction H2 Plant Max Day	CNEL	123.7	9281	170.9	-55.6	2.7	-2.5	-1.9		0.0	0.1	-3.0	0.0	63.4	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	170.9	-55.6	2.7	-2.5	-1.9		0.0	0.1	-3.0	9.2	61.9	
Construction PreTreat Building Max Day	CNEL	123.7	6360	345.7	-61.8	3.7	-2.0	-3.8		0.0	0.2	-3.0	0.0	57.0	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	345.7	-61.8	3.7	-2.0	-3.8		0.0	0.2	-3.0	9.2	55.5	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction Unit A Construction Max Day	CNEL	123.7	3185	200.1	-57.0	2.6	-4.7	-2.0	-0.02	0.0	0.4	-3.0	0.0	60.0	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	193.2	-56.7	2.4	-0.4	-2.2		0.0	0.2	-3.0	9.2	62.4	
Construction Unit B Max Day	CNEL	123.7	20817	193.2	-56.7	2.4	-0.4	-2.2		0.0	0.2	-3.0	0.0	63.9	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.5	-54.3	2.3	-17.2	-0.4		-4.3	0.0	0.0	6.7	30.6	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.7	-54.1	2.2	-4.0	-0.7		4.7	0.0	0.0	6.7	52.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.0	-20.2	-0.6		-6.1	0.0	0.0	6.7	27.8	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.4	-54.3	2.1	-8.8	-0.4		4.3	0.0	0.0	6.7	50.2	
Cooling Tower M 512	CNEL	95.7		137.8	-53.8	2.5	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Cooling Tower M 513	CNEL	95.7		137.3	-53.7	2.4	0.0	-0.7		0.0	2.4	0.0	6.7	52.7	
Cooling Tower M 514	CNEL	95.7		138.0	-53.8	2.5	0.0	-0.7		0.0	2.4	0.0	6.7	52.7	
Heater # 5-Heater	CNEL	91.1	13	267.2	-59.5	2.4	-12.8	-0.6		0.0	0.1	0.0	6.7	30.3	
Heater # 5-Heater	CNEL	91.1	13	262.3	-59.4	2.4	-10.9	-0.6		0.0	0.0	0.0	6.7	32.2	
Heater # 5-Heater	CNEL	91.1	13	257.3	-59.2	2.3	-6.9	-0.9		0.0	0.0	0.0	6.7	36.1	
Hydro Heater H-402	CNEL	98.1		134.0	-53.5	1.8	-3.4	-0.5	-0.04	0.0	0.5	0.0	6.7	49.6	
Motor & Pump P 56A/B	CNEL	93.7		149.8	-54.5	2.6	-5.8	-1.1	-1.12	0.0	0.0	0.0	6.7	40.4	
Motor & Pump P 120/121	CNEL	96.2	2	195.4	-56.8	3.3	-20.4	-0.7	-1.19	0.0	9.3	0.0	6.7	36.4	
Motor & Pump P 211/212	CNEL	93.7		126.7	-53.0	2.3	0.0	-1.3	-0.58	0.0	0.3	0.0	6.7	48.0	
Motor & Pump P 215/214	CNEL	94.6		131.8	-53.4	2.4	0.0	-1.3	-0.68	0.0	0.5	0.0	6.7	48.8	
Motor & Pump P 216	CNEL	98.3		128.4	-53.2	2.1	0.0	-1.3	-0.53	0.0	0.2	0.0	6.7	52.3	
Motor & Pump P 217/218	CNEL	93.7		128.6	-53.2	2.8	0.0	-1.3	-0.62	0.0	0.2	0.0	6.7	48.3	
Motor & Pump P 300	CNEL	97.1	2	199.0	-57.0	3.3	-6.5	-0.9	-1.17	0.0	0.0	0.0	6.7	41.7	
Motor & Pump P 301	CNEL	102.1	2	197.3	-56.9	3.3	-5.6	-0.9	-1.17	0.0	0.0	0.0	6.7	47.5	
Motor & Pump P 302	CNEL	97.1	2	200.8	-57.0	3.4	-7.6	-0.8	-1.17	0.0	0.0	0.0	6.7	40.5	
Motor & Pump P 303	CNEL	97.1	2	202.3	-57.1	3.3	-7.8	-0.8	-1.17	0.0	0.1	0.0	6.7	40.2	
Motor & Pump P 305	CNEL	97.5	2	203.7	-57.2	3.3	-8.5	-0.8	-1.18	0.0	0.1	0.0	6.7	39.9	
Motor & Pump P 306	CNEL	112.6	4	212.8	-57.6	3.0	-10.2	-0.8	-1.26	0.0	0.3	0.0	6.7	52.7	
Motor & Pump P 307	CNEL	102.1	2	192.4	-56.7	3.3	-3.2	-0.9	-1.17	0.0	0.0	0.0	6.7	50.1	
Motor & Pump P 309	CNEL	97.5	2	205.2	-57.2	3.3	-9.1	-0.8	-1.18	0.0	0.1	0.0	6.7	39.2	
Motor & Pump P 312	CNEL	101.5	2	170.6	-55.6	3.2	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	53.9	
Motor & Pump P 313	CNEL	101.5	2	168.9	-55.5	3.2	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	54.0	
Motor & Pump P 315	CNEL	102.9	2	162.5	-55.2	2.9	0.0	-0.9	-1.15	0.0	0.4	0.0	6.7	55.6	
Motor & Pump P 316	CNEL	102.9	2	160.5	-55.1	2.9	-0.4	-0.9	-1.02	0.0	0.4	0.0	6.7	55.5	
Motor & Pump P 317	CNEL	102.9	2	158.5	-55.0	2.8	-0.7	-0.8	-0.94	0.0	0.5	0.0	6.7	55.4	
Motor & Pump P 318	CNEL	100.2	1	164.4	-55.3	3.2	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	53.1	
Motor & Pump P 319	CNEL	100.2	1	165.9	-55.4	3.2	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	52.9	
Motor & Pump P 327	CNEL	111.2	3	220.8	-57.9	3.6	-19.8	-1.2	-1.15	0.0	1.0	0.0	6.7	42.4	
Motor & Pump P 328	CNEL	109.9	5	207.0	-57.3	3.2	-8.3	-0.9	-1.18	0.0	0.1	0.0	6.7	52.2	
Motor & Pump P 329	CNEL	110.2	5	209.9	-57.4	3.2	-9.6	-0.8	-1.15	0.0	0.3	0.0	6.7	51.4	
Motor & Pump P 451	CNEL	93.7		127.2	-53.1	2.3	-11.9	-0.6		0.0	4.0	0.0	6.7	41.0	
Motor & Pump P 453	CNEL	93.7		115.7	-52.3	2.3	0.0	-1.2		0.0	0.0	0.0	6.7	49.2	
Motor & Pump P 454	CNEL	93.7		127.5	-53.1	2.3	-5.8	-0.8	-0.07	0.0	1.4	0.0	6.7	44.2	
Motor & Pump P 457	CNEL	93.7		114.1	-52.1	2.3	0.0	-1.2		0.0	0.0	0.0	6.7	49.3	
Motor & Pump P 458	CNEL	93.7		127.2	-53.1	2.3	-8.6	-0.8		0.0	0.0	0.0	6.7	40.1	
Motor & Pump P 459	CNEL	93.7		128.5	-53.2	2.3	-5.6	-0.9	-0.08	0.0	1.4	0.0	6.7	44.2	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.2	-54.9	2.9	-8.6	-0.9		0.0	0.0	0.0	6.7	41.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		158.9	-55.0	3.0	-6.0	-1.1		0.0	0.0	0.0	6.7	43.7	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.2	-56.7	3.4	-4.4	-1.2	-0.75	0.0	0.0	0.0	6.7	42.4	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.4	-56.8	3.4	-4.0	-1.3	-0.75	0.0	0.0	0.0	6.7	42.7	
Motor & Pump P 1601 A	CNEL	96.3	2	163.8	-55.3	2.7	-11.4	-0.8		0.0	0.0	0.0	6.7	38.2	
Motor & Pump P 1601 B	CNEL	96.3	2	164.3	-55.3	2.7	-15.4	-0.9		0.0	0.0	0.0	6.7	34.1	
Motor & Pump P 1602 A	CNEL	96.3	2	164.4	-55.3	2.7	-19.1	-0.9		0.0	0.0	0.0	6.7	30.4	
Motor & Pump P 1602 B	CNEL	96.5	2	164.9	-55.3	2.7	-19.7	-0.9		0.0	0.0	0.0	6.7	29.9	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.2	-55.0	3.1	-16.3	-0.8	-0.08	0.0	0.1	0.0	6.7	34.2	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.0	-55.3	3.1	-11.2	-0.8	-0.19	0.0	0.0	0.0	6.7	38.9	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.4	-55.4	3.1	-8.8	-0.9	-0.24	0.0	0.0	0.0	6.7	41.0	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.4	-55.1	3.0	-5.6	-1.3		0.0	0.0	0.0	6.7	44.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.2	-55.2	3.0	-4.2	-1.4		0.0	0.0	0.0	6.7	45.6	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.8	-55.7	3.3	-14.3	-0.9	-0.27	0.0	0.5	0.0	6.7	35.6	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.3	-55.7	3.3	-15.0	-0.8	-0.36	0.0	0.9	0.0	6.7	35.2	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.5	-55.7	3.2	-5.5	-1.0	-0.35	0.0	0.1	0.0	6.7	43.8	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.8	-55.7	3.2	-12.8	-0.8	-0.36	0.0	0.9	0.0	6.7	37.5	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.0	-49.9	0.6	-0.6	-0.3		0.0	0.5	-38.6	0.0	46.5	
Tank Farm Pump 1	CNEL	99.0	3	324.7	-61.2	4.1	-1.9	-2.3		0.0	0.0	0.0	6.7	44.4	
Tank Farm Pump 2	CNEL	99.0	3	344.5	-61.7	4.2	-4.4	-2.6		0.0	0.0	0.0	6.7	41.2	
Tank Farm Pump 3	CNEL	99.0	3	350.0	-61.9	4.2	-4.6	-2.6		0.0	0.0	0.0	6.7	40.9	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.5	-52.7	1.2	-0.1	-1.8		0.0	0.4	-16.8	0.0	42.7	
XF-1502 Splitter Area 1	CNEL	104.5		168.5	-55.5	2.0	-0.2	-1.3	-0.25	-4.6	0.0	0.0	6.7	51.3	
XF-1502 Splitter Area 2	CNEL	104.5		164.8	-55.3	2.0	-0.2	-1.3	-0.07	-4.6	0.0	0.0	6.7	51.7	
XF-1504 Splitter Area 1	CNEL	104.5		169.3	-55.6	2.0	-5.0	-0.9	0.00	-3.9	0.0	0.0	6.7	47.9	
XF-1504 Splitter Area 2	CNEL	104.5		165.7	-55.4	2.0	-5.3	-0.9		-3.9	0.0	0.0	6.7	47.7	
XF 304, XF 321	CNEL	110.5	56	197.2	-56.9	1.5	-0.6	-0.8	-1.05	-3.1	0.2	0.0	6.7	56.5	
XF 313, XF 314	CNEL	113.0	18	227.5	-58.1	1.7	-3.2	-1.0	-1.53	-4.0	0.1	0.0	6.7	53.5	
XF 335-1, XF 335-2	CNEL	113.4	54	209.2	-57.4	1.6	-4.2	-0.9	-1.38	-3.1	0.7	0.0	6.7	55.4	
XF 503	CNEL	113.0	21	144.2	-54.2	1.6	-0.7	-2.6	-0.99	-4.3	0.3	0.0	6.7	58.9	
XF - 1601	CNEL	96.6		163.7	-55.3	1.7	-0.4	-0.6		-3.3	0.0	0.0	6.7	45.4	
XF - 1602	CNEL	96.6		165.6	-55.4	1.7	0.0	-0.6		-2.8	0.0	0.0	6.7	46.2	
XF Module 1510	CNEL	108.3		160.0	-55.1	2.0	-0.6	-1.3	-0.10	-4.6	0.0	0.0	6.7	55.2	
XF Module 1519	CNEL	109.0		165.3	-55.4	2.0	-0.9	-1.4	-0.21	-4.6	0.0	0.0	6.7	55.2	
Lakewood NB	CNEL		606								3.1			29.2	
Lakewood SB	CNEL		606								2.9			29.3	
Somerset Ave EB	CNEL		917								1.9			36.4	
Somerset Ave WB	CNEL		917								1.3			35.8	
Downey Ave NB	CNEL		608								1.6			36.6	
Downey Ave SB	CNEL		608								1.8			36.5	
Construction / Renewable Fuels Truck Tr	CNEL		1368								1.3			45.9	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.5			33.8	
Receiver SS-2 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.8 dB(A) Ld 7-19 dB(A) Leq,N 65.2 dB(A) Le 19-22 dB(A) CNEL 73.6 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	84.0	-49.5	1.3	-0.1	-1.8		0.0	0.3	-10.8	0.0	48.5	
Air Compressor C 1	CNEL	110.0	5	208.4	-57.4	2.7	-13.9	-0.4	-1.18	0.0	5.2	0.0	6.7	51.8	
Air Compressor Pump	CNEL	100.3		127.8	-53.1	2.5	-17.1	-1.3		0.0	0.0	0.0	6.7	38.0	
Blower F 401	CNEL	113.0		96.1	-50.6	1.2	-13.2	-0.1		0.0	0.0	0.0	6.7	56.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.8	-59.4	2.5	-0.4	-1.3		0.0	0.0	0.0	6.7	46.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.6	-54.0	2.1	-10.7	-0.6	-0.66	4.4	3.1	0.0	6.7	55.1	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.7	-54.3	2.2	-0.1	-1.2	-0.82	0.0	0.2	0.0	6.7	53.3	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.3	-54.6	2.2	-14.9	-0.4	-0.32	-7.8	6.4	0.0	6.7	43.7	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.0	-54.0	2.1	-11.0	-0.7	-0.13	0.4	0.0	0.0	6.7	54.0	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.6	-54.1	2.2	-8.9	-0.5	-0.70	0.2	0.1	0.0	6.7	48.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.0	-54.5	2.1	-12.5	-0.5		-5.5	7.8	0.0	6.7	44.0	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	238.0	-58.5	2.8	-1.7	-2.5		0.0	0.0	-3.0	9.2	59.3	
Construciton Control Room Max Day	CNEL	123.7	5461	238.0	-58.5	2.8	-1.7	-2.5		0.0	0.0	-3.0	0.0	60.8	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	547.4	-65.8	4.2	-12.2	-2.4		0.0	0.2	-3.0	0.0	44.6	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	589.6	-66.4	4.4	-8.1	-3.4		0.0	0.2	-3.0	0.0	47.4	
Construction H2 Plant Max Day	CNEL	123.7	9281	171.0	-55.7	2.7	-2.3	-1.9		0.0	0.0	-3.0	0.0	63.5	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	171.0	-55.7	2.7	-2.3	-1.9		0.0	0.0	-3.0	9.2	62.0	
Construction PreTreat Building Max Day	CNEL	123.7	6360	345.8	-61.8	3.5	-1.4	-3.7		0.0	0.2	-3.0	0.0	57.6	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	345.8	-61.8	3.5	-1.4	-3.7		0.0	0.2	-3.0	9.2	56.0	
Construction Unit A Construction Max Day	CNEL	123.7	3185	200.2	-57.0	2.5	-3.8	-2.1	-0.03	0.0	0.4	-3.0	0.0	60.6	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	193.3	-56.7	2.4	-0.3	-2.1		0.0	0.1	-3.0	9.2	62.6	
Construction Unit B Max Day	CNEL	123.7	20817	193.3	-56.7	2.4	-0.3	-2.1		0.0	0.1	-3.0	0.0	64.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.6	-54.3	2.5	-16.8	-0.4		-4.3	0.0	0.0	6.7	31.3	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.8	-54.1	2.4	-3.3	-0.9		4.7	0.0	0.0	6.7	53.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.4	-19.8	-0.5		-6.1	0.0	0.0	6.7	28.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.4	-54.3	2.4	-7.9	-0.5		4.3	0.0	0.0	6.7	51.4	
Cooling Tower M 512	CNEL	95.7		137.8	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Cooling Tower M 513	CNEL	95.7		137.4	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Cooling Tower M 514	CNEL	95.7		138.1	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Heater # 5-Heater	CNEL	91.1	13	267.2	-59.5	2.6	-12.2	-0.5		0.0	0.0	0.0	6.7	31.1	
Heater # 5-Heater	CNEL	91.1	13	262.3	-59.4	2.5	-10.3	-0.5		0.0	0.0	0.0	6.7	33.1	
Heater # 5-Heater	CNEL	91.1	13	257.3	-59.2	2.5	-6.6	-0.8		0.0	0.0	0.0	6.7	36.6	
Hydro Heater H-402	CNEL	98.1		134.1	-53.5	2.5	-2.8	-0.6	-0.04	0.0	0.5	0.0	6.7	50.8	
Motor & Pump P 56A/B	CNEL	93.7		149.9	-54.5	2.6	-4.4	-1.3	-1.10	0.0	0.0	0.0	6.7	41.6	
Motor & Pump P 120/121	CNEL	96.2	2	195.5	-56.8	2.6	-20.1	-0.6	-1.20	0.0	10.0	0.0	6.7	36.7	
Motor & Pump P 211/212	CNEL	93.7		126.8	-53.1	2.5	0.0	-1.3	-0.58	0.0	0.3	0.0	6.7	48.2	
Motor & Pump P 215/214	CNEL	94.6		131.9	-53.4	2.5	0.0	-1.3	-0.69	0.0	0.6	0.0	6.7	49.0	
Motor & Pump P 216	CNEL	98.3		128.5	-53.2	2.4	0.0	-1.3	-0.53	0.0	0.2	0.0	6.7	52.6	
Motor & Pump P 217/218	CNEL	93.7		128.7	-53.2	2.5	0.0	-1.3	-0.62	0.0	0.4	0.0	6.7	48.1	
Motor & Pump P 300	CNEL	97.1	2	199.0	-57.0	2.6	-6.2	-0.8	-1.18	0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 301	CNEL	102.1	2	197.4	-56.9	2.6	-5.2	-0.9	-1.18	0.0	0.0	0.0	6.7	47.3	
Motor & Pump P 302	CNEL	97.1	2	200.8	-57.0	2.6	-7.5	-0.8	-1.18	0.0	0.0	0.0	6.7	39.9	
Motor & Pump P 303	CNEL	97.1	2	202.3	-57.1	2.6	-7.7	-0.8	-1.18	0.0	0.1	0.0	6.7	39.6	
Motor & Pump P 305	CNEL	97.5	2	203.8	-57.2	2.6	-8.4	-0.8	-1.19	0.0	0.1	0.0	6.7	39.3	
Motor & Pump P 306	CNEL	112.6	4	212.8	-57.6	2.6	-9.0	-0.7	-1.28	0.0	0.2	0.0	6.7	53.5	
Motor & Pump P 307	CNEL	102.1	2	192.5	-56.7	2.6	-2.7	-0.9	-1.17	0.0	0.0	0.0	6.7	49.9	
Motor & Pump P 309	CNEL	97.5	2	205.3	-57.2	2.6	-9.0	-0.8	-1.19	0.0	0.1	0.0	6.7	38.7	
Motor & Pump P 312	CNEL	101.5	2	170.7	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.4	0.0	6.7	53.5	
Motor & Pump P 313	CNEL	101.5	2	168.9	-55.5	2.6	0.0	-0.9	-1.16	0.0	0.4	0.0	6.7	53.6	
Motor & Pump P 315	CNEL	102.9	2	162.6	-55.2	2.6	0.0	-0.9	-1.15	0.0	0.5	0.0	6.7	55.4	
Motor & Pump P 316	CNEL	102.9	2	160.6	-55.1	2.6	-0.4	-0.8	-1.03	0.0	0.5	0.0	6.7	55.3	
Motor & Pump P 317	CNEL	102.9	2	158.6	-55.0	2.6	-0.7	-0.8	-0.95	0.0	0.5	0.0	6.7	55.2	
Motor & Pump P 318	CNEL	100.2	1	164.5	-55.3	2.6	0.0	-0.9	-1.16	0.0	0.5	0.0	6.7	52.6	
Motor & Pump P 319	CNEL	100.2	1	165.9	-55.4	2.6	0.0	-0.9	-1.16	0.0	0.4	0.0	6.7	52.4	
Motor & Pump P 327	CNEL	111.2	3	220.8	-57.9	2.8	-19.5	-1.2	-0.43	0.0	0.9	0.0	6.7	42.7	
Motor & Pump P 328	CNEL	109.9	5	207.0	-57.3	2.6	-7.1	-0.8	-1.18	0.0	0.1	0.0	6.7	52.9	
Motor & Pump P 329	CNEL	110.2	5	209.9	-57.4	2.6	-8.9	-0.8	-1.16	0.0	0.3	0.0	6.7	51.5	
Motor & Pump P 451	CNEL	93.7		127.2	-53.1	2.5	-10.0	-0.7		0.0	2.7	0.0	6.7	41.9	
Motor & Pump P 453	CNEL	93.7		115.8	-52.3	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.4	
Motor & Pump P 454	CNEL	93.7		127.6	-53.1	2.5	-4.6	-1.0	-0.06	0.0	1.1	0.0	6.7	45.2	
Motor & Pump P 457	CNEL	93.7		114.2	-52.1	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.5	
Motor & Pump P 458	CNEL	93.7		127.3	-53.1	2.5	-7.6	-0.7		0.0	0.0	0.0	6.7	41.4	
Motor & Pump P 459	CNEL	93.7		128.6	-53.2	2.5	-4.5	-1.0	-0.08	0.0	1.1	0.0	6.7	45.2	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.3	-54.9	2.6	-8.3	-0.9		0.0	0.0	0.0	6.7	41.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		158.9	-55.0	2.6	-5.9	-1.1		0.0	0.0	0.0	6.7	43.5	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.3	-56.7	2.7	-3.0	-1.5	-0.74	0.0	0.0	0.0	6.7	42.9	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.4	-56.8	2.7	-2.7	-1.5	-0.74	0.0	0.0	0.0	6.7	43.0	
Motor & Pump P 1601 A	CNEL	96.3	2	163.9	-55.3	2.7	-11.0	-0.8		0.0	0.0	0.0	6.7	38.6	
Motor & Pump P 1601 B	CNEL	96.3	2	164.3	-55.3	2.7	-15.2	-0.8		0.0	0.0	0.0	6.7	34.3	
Motor & Pump P 1602 A	CNEL	96.3	2	164.5	-55.3	2.7	-18.8	-0.8		0.0	0.0	0.0	6.7	30.7	
Motor & Pump P 1602 B	CNEL	96.5	2	165.0	-55.3	2.7	-19.4	-0.8		0.0	0.0	0.0	6.7	30.2	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.3	-55.0	2.7	-13.8	-0.8	-0.08	0.0	0.1	0.0	6.7	36.3	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.1	-55.3	2.7	-9.0	-1.0	-0.18	0.0	0.0	0.0	6.7	40.5	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.5	-55.4	2.7	-6.5	-1.2	-0.23	0.0	0.0	0.0	6.7	42.6	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.5	-55.1	2.6	-5.5	-1.3		0.0	0.0	0.0	6.7	44.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.2	-55.2	2.7	-4.1	-1.3		0.0	0.0	0.0	6.7	45.4	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.8	-55.7	2.7	-13.2	-0.9	-0.29	0.0	0.9	0.0	6.7	36.5	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.4	-55.7	2.7	-11.2	-0.9	-0.36	0.0	0.8	0.0	6.7	38.3	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.6	-55.7	2.7	-3.3	-1.3	-0.34	0.0	0.2	0.0	6.7	45.2	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.9	-55.7	2.7	-10.1	-0.8	-0.36	0.0	1.0	0.0	6.7	39.7	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.2	-49.9	0.8	-0.2	-0.3		0.0	0.5	-38.6	0.0	47.0	
Tank Farm Pump 1	CNEL	99.0	3	324.7	-61.2	3.8	-1.9	-2.2		0.0	0.0	0.0	6.7	44.1	
Tank Farm Pump 2	CNEL	99.0	3	344.6	-61.7	3.9	-3.5	-2.8		0.0	0.0	0.0	6.7	41.5	
Tank Farm Pump 3	CNEL	99.0	3	350.1	-61.9	3.9	-4.0	-2.7		0.0	0.0	0.0	6.7	41.0	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.6	-52.7	1.2	0.0	-1.8		0.0	0.4	-16.8	0.0	42.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF-1502 Splitter Area 1	CNEL	104.5		168.4	-55.5	2.4	0.0	-1.2	-0.01	-4.4	0.0	0.0	6.7	52.4	
XF-1502 Splitter Area 2	CNEL	104.5		164.7	-55.3	2.3	0.0	-1.2		-4.3	0.0	0.0	6.7	52.6	
XF-1504 Splitter Area 1	CNEL	104.5		169.3	-55.6	2.4	-4.9	-0.8	0.00	-3.8	0.0	0.0	6.7	48.4	
XF-1504 Splitter Area 2	CNEL	104.5		165.6	-55.4	2.3	-5.3	-0.9		-3.8	0.0	0.0	6.7	48.2	
XF 304, XF 321	CNEL	110.5	56	197.2	-56.9	2.2	-0.5	-0.8	-0.87	-2.9	0.2	0.0	6.7	57.6	
XF 313, XF 314	CNEL	113.0	18	227.4	-58.1	2.3	-3.5	-0.9	-1.39	-3.8	0.1	0.0	6.7	54.4	
XF 335-1, XF 335-2	CNEL	113.4	54	209.2	-57.4	2.2	-3.8	-0.9	-1.05	-3.0	0.8	0.0	6.7	56.9	
XF 503	CNEL	113.0	21	144.2	-54.2	2.1	-0.1	-2.2	-1.03	-4.1	0.0	0.0	6.7	60.1	
XF - 1601	CNEL	96.6		163.5	-55.3	2.3	-0.1	-0.6		-2.7	0.0	0.0	6.7	46.9	
XF - 1602	CNEL	96.6		165.4	-55.4	2.3	0.0	-0.6		-2.6	0.0	0.0	6.7	47.1	
XF Module 1510	CNEL	108.3		159.9	-55.1	2.3	-0.1	-1.2	-0.10	-4.4	0.0	0.0	6.7	56.4	
XF Module 1519	CNEL	109.0		165.2	-55.4	2.3	-0.1	-1.2	-0.21	-4.4	0.0	0.0	6.7	56.7	
Lakewood NB	CNEL		606								2.7			29.1	
Lakewood SB	CNEL		606								2.6			29.3	
Somerset Ave EB	CNEL		917								1.6			37.6	
Somerset Ave WB	CNEL		917								0.8			36.9	
Downey Ave NB	CNEL		608								1.4			38.0	
Downey Ave SB	CNEL		608								1.6			37.8	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.9			45.7	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.4			33.7	
Receiver SS-2 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.1 dB(A) Ld 7-19 dB(A) Leq,N 65.5 dB(A) Le 19-22 dB(A) CNEL 73.9 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	84.3	-49.5	1.3	0.0	-1.8		0.0	0.2	-10.8	0.0	48.5	
Air Compressor C 1	CNEL	110.0	5	208.5	-57.4	2.7	-10.2	-0.4	-1.18	0.0	4.5	0.0	6.7	54.7	
Air Compressor Pump	CNEL	100.3		127.9	-53.1	2.5	-16.9	-1.2		0.0	0.0	0.0	6.7	38.2	
Blower F 401	CNEL	113.0		96.3	-50.7	1.3	-13.0	-0.1		0.0	0.1	0.0	6.7	57.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.9	-59.5	2.4	0.0	-1.2		0.0	0.0	0.0	6.7	47.0	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.7	-54.0	2.2	-10.3	-0.6	-0.66	4.4	3.2	0.0	6.7	55.6	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.8	-54.3	2.3	-0.1	-1.2	-0.82	0.0	0.2	0.0	6.7	53.3	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.4	-54.6	2.2	-14.8	-0.4	-0.32	-7.8	7.3	0.0	6.7	44.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.1	-54.0	2.1	-10.9	-0.7	-0.13	0.4	0.0	0.0	6.7	54.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.7	-54.1	2.2	-8.6	-0.6	-0.69	0.2	0.1	0.0	6.7	48.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.1	-54.5	2.2	-12.4	-0.4		-5.5	7.7	0.0	6.7	44.1	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	238.1	-58.5	2.7	-1.5	-2.7		0.0	0.0	-3.0	9.2	59.3	
Construciton Control Room Max Day	CNEL	123.7	5461	238.1	-58.5	2.7	-1.5	-2.7		0.0	0.0	-3.0	0.0	60.8	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	547.4	-65.8	3.9	-11.7	-2.5		0.0	0.2	-3.0	0.0	44.8	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	589.6	-66.4	4.2	-7.1	-3.7		0.0	0.3	-3.0	0.0	47.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	171.1	-55.7	2.7	-1.9	-2.0		0.0	0.1	-3.0	0.0	63.8	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	171.1	-55.7	2.7	-1.9	-2.0		0.0	0.1	-3.0	9.2	62.3	
Construction PreTreat Building Max Day	CNEL	123.7	6360	345.8	-61.8	3.0	-1.1	-3.5		0.0	0.2	-3.0	0.0	57.5	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	345.8	-61.8	3.0	-1.1	-3.5		0.0	0.2	-3.0	9.2	56.0	
Construction Unit A Construction Max Day	CNEL	123.7	3185	200.3	-57.0	2.6	-3.2	-2.2	-0.04	0.0	0.4	-3.0	0.0	61.2	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	193.4	-56.7	2.4	-0.3	-2.0		0.0	0.1	-3.0	9.2	62.6	
Construction Unit B Max Day	CNEL	123.7	20817	193.4	-56.7	2.4	-0.3	-2.0		0.0	0.1	-3.0	0.0	64.2	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.7	-54.3	2.5	-16.5	-0.4		-4.3	0.0	0.0	6.7	31.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.9	-54.1	2.5	-2.6	-1.1		4.7	0.0	0.0	6.7	53.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.5	-19.5	-0.5		-6.1	0.0	0.0	6.7	29.0	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.5	-54.3	2.4	-6.5	-0.6		4.3	0.0	0.0	6.7	52.7	
Cooling Tower M 512	CNEL	95.7		138.0	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Cooling Tower M 513	CNEL	95.7		137.5	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Cooling Tower M 514	CNEL	95.7		138.2	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8	
Heater # 5-Heater	CNEL	91.1	13	267.3	-59.5	2.4	-12.0	-0.5		0.0	0.0	0.0	6.7	31.1	
Heater # 5-Heater	CNEL	91.1	13	262.4	-59.4	2.4	-10.1	-0.5		0.0	0.0	0.0	6.7	33.2	
Heater # 5-Heater	CNEL	91.1	13	257.4	-59.2	2.4	-6.5	-0.8		0.0	0.0	0.0	6.7	36.6	
Hydro Heater H-402	CNEL	98.1		134.2	-53.5	2.6	-2.7	-0.6	-0.04	0.0	0.6	0.0	6.7	51.0	
Motor & Pump P 56A/B	CNEL	93.7		150.0	-54.5	2.6	-4.8	-1.4	-1.09	0.0	0.0	0.0	6.7	41.1	
Motor & Pump P 120/121	CNEL	96.2	2	195.6	-56.8	2.7	-16.1	-0.7	-1.19	0.0	9.8	0.0	6.7	40.5	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 211/212	CNEL	93.7		126.9	-53.1	2.5	0.0	-1.3	-0.58	0.0	0.4	0.0	6.7	48.2	
Motor & Pump P 215/214	CNEL	94.6		132.0	-53.4	2.5	0.0	-1.3	-0.69	0.0	0.6	0.0	6.7	49.0	
Motor & Pump P 216	CNEL	98.3		128.6	-53.2	2.4	0.0	-1.3	-0.53	0.0	0.2	0.0	6.7	52.6	
Motor & Pump P 217/218	CNEL	93.7		128.9	-53.2	2.5	0.0	-1.3	-0.62	0.0	0.4	0.0	6.7	48.1	
Motor & Pump P 300	CNEL	97.1	2	199.1	-57.0	2.7	-4.9	-0.9	-1.17	0.0	0.0	0.0	6.7	42.5	
Motor & Pump P 301	CNEL	102.1	2	197.5	-56.9	2.7	-3.6	-0.9	-1.17	0.0	0.0	0.0	6.7	48.8	
Motor & Pump P 302	CNEL	97.1	2	200.9	-57.1	2.7	-7.0	-0.8	-1.18	0.0	0.0	0.0	6.7	40.4	
Motor & Pump P 303	CNEL	97.1	2	202.4	-57.1	2.7	-7.2	-0.8	-1.18	0.0	0.1	0.0	6.7	40.2	
Motor & Pump P 305	CNEL	97.5	2	203.9	-57.2	2.7	-7.8	-0.8	-1.19	0.0	0.0	0.0	6.7	39.9	
Motor & Pump P 306	CNEL	112.6	4	212.9	-57.6	2.7	-8.0	-0.7	-1.28	0.0	0.2	0.0	6.7	54.6	
Motor & Pump P 307	CNEL	102.1	2	192.6	-56.7	2.7	-1.4	-0.9	-1.17	0.0	0.0	0.0	6.7	51.3	
Motor & Pump P 309	CNEL	97.5	2	205.4	-57.2	2.7	-8.2	-0.7	-1.19	0.0	0.0	0.0	6.7	39.5	
Motor & Pump P 312	CNEL	101.5	2	170.8	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.7	0.0	6.7	53.7	
Motor & Pump P 313	CNEL	101.5	2	169.1	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.6	0.0	6.7	53.8	
Motor & Pump P 315	CNEL	102.9	2	162.7	-55.2	2.6	0.0	-0.9	-1.15	0.0	0.6	0.0	6.7	55.5	
Motor & Pump P 316	CNEL	102.9	2	160.7	-55.1	2.6	-0.4	-0.8	-1.03	0.0	0.6	0.0	6.7	55.3	
Motor & Pump P 317	CNEL	102.9	2	158.7	-55.0	2.6	-0.7	-0.8	-0.95	0.0	0.8	0.0	6.7	55.5	
Motor & Pump P 318	CNEL	100.2	1	164.6	-55.3	2.6	0.0	-0.9	-1.16	0.0	0.6	0.0	6.7	52.7	
Motor & Pump P 319	CNEL	100.2	1	166.1	-55.4	2.6	0.0	-0.9	-1.16	0.0	0.6	0.0	6.7	52.6	
Motor & Pump P 327	CNEL	111.2	3	220.9	-57.9	2.7	-19.4	-1.2		0.0	0.9	0.0	6.7	43.0	
Motor & Pump P 328	CNEL	109.9	5	207.1	-57.3	2.7	-6.4	-0.9	-1.18	0.0	0.1	0.0	6.7	53.6	
Motor & Pump P 329	CNEL	110.2	5	210.0	-57.4	2.7	-8.0	-0.8	-1.16	0.0	0.5	0.0	6.7	52.7	
Motor & Pump P 451	CNEL	93.7		127.4	-53.1	2.5	-9.7	-0.7		0.0	2.7	0.0	6.7	42.2	
Motor & Pump P 453	CNEL	93.7		115.9	-52.3	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.4	
Motor & Pump P 454	CNEL	93.7		127.7	-53.1	2.5	-3.9	-1.1	-0.06	0.0	0.9	0.0	6.7	45.6	
Motor & Pump P 457	CNEL	93.7		114.4	-52.2	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.5	
Motor & Pump P 458	CNEL	93.7		127.4	-53.1	2.5	-7.5	-0.7		0.0	0.0	0.0	6.7	41.6	
Motor & Pump P 459	CNEL	93.7		128.7	-53.2	2.5	-3.9	-1.1	-0.08	0.0	0.9	0.0	6.7	45.5	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.4	-54.9	2.6	-8.3	-0.9		0.0	0.0	0.0	6.7	41.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		159.0	-55.0	2.7	-5.9	-1.1		0.0	0.0	0.0	6.7	43.6	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.4	-56.7	2.7	-4.1	-2.0	-0.72	0.0	0.0	0.0	6.7	41.2	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.5	-56.8	2.7	-4.1	-2.0	-0.73	0.0	0.0	0.0	6.7	41.2	
Motor & Pump P 1601 A	CNEL	96.3	2	164.0	-55.3	2.7	-9.3	-0.8		0.0	0.0	0.0	6.7	40.2	
Motor & Pump P 1601 B	CNEL	96.3	2	164.4	-55.3	2.7	-15.1	-0.8		0.0	0.0	0.0	6.7	34.4	
Motor & Pump P 1602 A	CNEL	96.3	2	164.6	-55.3	2.7	-18.6	-0.8		0.0	0.0	0.0	6.7	30.9	
Motor & Pump P 1602 B	CNEL	96.5	2	165.1	-55.3	2.7	-19.2	-0.8		0.0	0.0	0.0	6.7	30.5	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.4	-55.0	2.7	-13.5	-0.8	-0.08	0.0	0.1	0.0	6.7	36.6	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.2	-55.3	2.7	-8.7	-1.0	-0.18	0.0	0.0	0.0	6.7	40.8	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.6	-55.4	2.7	-6.1	-1.2	-0.23	0.0	0.0	0.0	6.7	43.0	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.6	-55.1	2.7	-5.5	-1.3		0.0	0.0	0.0	6.7	44.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.4	-55.2	2.7	-4.1	-1.3		0.0	0.0	0.0	6.7	45.4	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.9	-55.8	2.7	-12.8	-0.9	-0.30	0.0	1.8	0.0	6.7	37.7	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.5	-55.7	2.7	-8.7	-0.9	-0.36	0.0	1.0	0.0	6.7	41.0	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.7	-55.7	2.7	-4.8	-1.6	-0.33	0.0	0.5	0.0	6.7	43.7	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	172.0	-55.7	2.7	-6.3	-1.1	-0.35	0.0	1.0	0.0	6.7	43.2	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.5	-49.9	0.9	-0.1	-0.3		0.0	0.5	-38.6	0.0	47.1	
Tank Farm Pump 1	CNEL	99.0	3	324.8	-61.2	3.1	-4.1	-2.5		0.0	0.0	0.0	6.7	41.0	
Tank Farm Pump 2	CNEL	99.0	3	344.6	-61.7	3.3	-1.9	-3.1		0.0	0.0	0.0	6.7	42.1	
Tank Farm Pump 3	CNEL	99.0	3	350.1	-61.9	3.3	-2.8	-3.1		0.0	0.0	0.0	6.7	41.3	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	121.9	-52.7	1.3	0.0	-1.8		0.0	0.2	-16.8	0.0	42.5	
XF-1502 Splitter Area 1	CNEL	104.5		168.4	-55.5	2.4	0.0	-1.2	0.00	-4.3	0.0	0.0	6.7	52.5	
XF-1502 Splitter Area 2	CNEL	104.5		164.7	-55.3	2.3	0.0	-1.2		-4.3	0.0	0.0	6.7	52.7	
XF-1504 Splitter Area 1	CNEL	104.5		169.2	-55.6	2.4	-4.9	-0.8	0.00	-3.8	0.0	0.0	6.7	48.5	
XF-1504 Splitter Area 2	CNEL	104.5		165.6	-55.4	2.4	-5.3	-0.9		-3.7	0.0	0.0	6.7	48.3	
XF 304, XF 321	CNEL	110.5	56	197.1	-56.9	2.3	-0.5	-0.7		-2.8	0.3	0.0	6.7	58.8	
XF 313, XF 314	CNEL	113.0	18	227.4	-58.1	2.4	-4.9	-0.9	-0.72	-3.6	0.0	0.0	6.7	53.8	
XF 335-1, XF 335-2	CNEL	113.4	54	209.1	-57.4	2.4	-3.6	-1.0	-0.01	-2.9	0.9	0.0	6.7	58.5	
XF 503	CNEL	113.0	21	144.2	-54.2	2.1	0.0	-2.2	-1.03	-3.9	0.0	0.0	6.7	60.5	
XF - 1601	CNEL	96.6		163.4	-55.3	2.4	0.0	-0.6		-2.6	0.0	0.0	6.7	47.2	
XF - 1602	CNEL	96.6		165.3	-55.4	2.4	0.0	-0.6		-2.5	0.0	0.0	6.7	47.2	
XF Module 1510	CNEL	108.3		159.9	-55.1	2.3	0.0	-1.2	-0.10	-4.3	0.0	0.0	6.7	56.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF Module 1519	CNEL	109.0		165.2	-55.4	2.3	0.0	-1.2	-0.21	-4.3	0.0	0.0	6.7	57.0	
Lakewood NB	CNEL		606								3.1			29.7	
Lakewood SB	CNEL		606								2.7			29.7	
Somerset Ave EB	CNEL		917								1.6			38.8	
Somerset Ave WB	CNEL		917								0.8			38.1	
Downey Ave NB	CNEL		608								1.3			39.2	
Downey Ave SB	CNEL		608								1.5			39.1	
Construction / Renewable Fuels Truck Tr	CNEL		1368								1.0			46.2	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.6			34.0	
Receiver SS-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 71.7 dB(A)		Ld 7-19 dB(A)		Leq,N 64.0 dB(A)		Le 19-22 dB(A)		CNEL 72.9 dB(A)		Lmax day hr dB(A)		Ld 7-1
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	81.8	-49.3	1.3	-0.1	-1.8		0.0	0.2	-10.8	0.0	48.6	
Air Compressor C 1	CNEL	110.0	5	221.5	-57.9	3.3	-12.2	-0.5	-1.19	0.0	3.1	0.0	6.7	51.4	
Air Compressor Pump	CNEL	100.3		120.1	-52.6	2.3	-18.0	-1.5		0.0	6.5	0.0	6.7	43.7	
Blower F 401	CNEL	113.0		109.4	-51.8	0.5	-13.1	-0.2		0.0	0.0	0.0	6.7	55.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.0	-58.8	2.2	-1.2	-1.5		0.0	0.0	0.0	6.7	46.0	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.3	-54.9	1.6	-11.0	-0.7	-0.72	4.1	3.1	0.0	6.7	52.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	160.9	-55.1	1.7	-0.1	-1.4	-0.90	0.0	0.0	0.0	6.7	51.4	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.4	-55.5	1.6	-16.9	-0.4	-0.55	-7.8	8.5	0.0	6.7	42.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.5	-55.0	1.4	-11.1	-0.8	-0.20	0.7	0.0	0.0	6.7	52.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.0	-55.0	1.6	-9.4	-0.6	-0.78	0.4	0.2	0.0	6.7	46.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.0	-55.4	1.5	-14.5	-0.4		-6.1	4.5	0.0	6.7	36.6	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	227.6	-58.1	3.2	-1.2	-2.5		0.0	0.0	-3.0	9.2	60.6	
Construciton Control Room Max Day	CNEL	123.7	5461	227.6	-58.1	3.2	-1.2	-2.5		0.0	0.0	-3.0	0.0	62.1	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	531.5	-65.5	4.0	-13.2	-2.4		0.0	0.2	-3.0	0.0	43.6	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	579.3	-66.3	4.4	-8.2	-3.9		0.0	0.2	-3.0	0.0	46.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	169.3	-55.6	2.7	-2.6	-1.9		0.0	0.1	-3.0	0.0	63.4	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	169.3	-55.6	2.7	-2.6	-1.9		0.0	0.1	-3.0	9.2	61.9	
Construction PreTreat Building Max Day	CNEL	123.7	6360	332.6	-61.4	3.7	-2.3	-4.0		0.0	0.2	-3.0	0.0	56.9	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	332.6	-61.4	3.7	-2.3	-4.0		0.0	0.2	-3.0	9.2	55.3	
Construction Unit A Construction Max Day	CNEL	123.7	3185	217.5	-57.7	2.7	-5.3	-2.1	-0.10	0.0	0.3	-3.0	0.0	58.5	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	177.3	-56.0	2.3	-0.5	-2.1		0.0	0.2	-3.0	9.2	63.2	
Construction Unit B Max Day	CNEL	123.7	20817	177.3	-56.0	2.3	-0.5	-2.1		0.0	0.2	-3.0	0.0	64.7	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.3	-54.7	2.2	-15.7	-0.4		-2.5	0.0	0.0	6.7	33.4	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	151.9	-54.6	2.1	0.0	-1.2		1.6	0.0	0.0	6.7	52.5	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.5	-54.9	2.0	-18.2	-0.5		-4.8	0.0	0.0	6.7	30.8	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.1	-2.9	-1.1		4.7	0.0	0.0	6.7	55.4	
Cooling Tower M 512	CNEL	95.7		146.1	-54.3	2.6	-5.9	-0.7		0.0	0.3	0.0	6.7	44.5	
Cooling Tower M 513	CNEL	95.7		145.8	-54.3	2.5	0.0	-0.8		0.0	2.4	0.0	6.7	52.3	
Cooling Tower M 514	CNEL	95.7		146.1	-54.3	2.6	-9.2	-0.6		0.0	0.5	0.0	6.7	41.4	
Heater # 5-Heater	CNEL	91.1	13	248.5	-58.9	2.3	-11.9	-0.6		0.0	0.0	0.0	6.7	31.7	
Heater # 5-Heater	CNEL	91.1	13	243.6	-58.7	2.3	-10.1	-0.6		0.0	0.0	0.0	6.7	33.6	
Heater # 5-Heater	CNEL	91.1	13	238.6	-58.5	2.2	-6.4	-0.9		0.0	0.0	0.0	6.7	37.2	
Hydro Heater H-402	CNEL	98.1		145.7	-54.3	1.9	-2.5	-0.6		0.0	0.0	0.0	6.7	49.3	
Motor & Pump P 56A/B	CNEL	93.7		162.4	-55.2	2.8	-8.6	-0.9	-1.16	0.0	0.0	0.0	6.7	37.3	
Motor & Pump P 120/121	CNEL	96.2	2	208.7	-57.4	3.4	-17.5	-0.7	-1.20	0.0	4.6	0.0	6.7	34.0	
Motor & Pump P 211/212	CNEL	93.7		141.6	-54.0	2.5	-4.6	-1.3	-0.61	0.0	0.2	0.0	6.7	42.4	
Motor & Pump P 215/214	CNEL	94.6		146.6	-54.3	2.6	-7.5	-0.9	-0.74	0.0	1.1	0.0	6.7	41.6	
Motor & Pump P 216	CNEL	98.3		143.9	-54.2	2.3	0.0	-1.4	-0.58	0.0	0.2	0.0	6.7	51.3	
Motor & Pump P 217/218	CNEL	93.7		143.5	-54.1	2.9	-5.0	-1.3	-0.65	0.0	0.1	0.0	6.7	42.4	
Motor & Pump P 300	CNEL	97.1	2	213.1	-57.6	3.4	-15.8	-0.7	-1.22	0.0	0.0	0.0	6.7	31.9	
Motor & Pump P 301	CNEL	102.1	2	211.4	-57.5	3.4	-15.4	-0.7	-1.22	0.0	0.0	0.0	6.7	37.3	
Motor & Pump P 302	CNEL	97.1	2	214.8	-57.6	3.4	-16.5	-0.7	-1.22	0.0	0.3	0.0	6.7	31.4	
Motor & Pump P 303	CNEL	97.1	2	216.3	-57.7	3.3	-16.4	-0.7	-1.22	0.0	1.0	0.0	6.7	32.1	
Motor & Pump P 305	CNEL	97.5	2	217.8	-57.8	3.4	-16.2	-0.7	-1.22	0.0	0.7	0.0	6.7	32.4	
Motor & Pump P 306	CNEL	112.6	4	226.7	-58.1	3.0	-15.3	-0.7	-0.93	0.0	1.2	0.0	6.7	48.5	
Motor & Pump P 307	CNEL	102.1	2	206.6	-57.3	3.3	-7.8	-0.9	-1.19	0.0	0.0	0.0	6.7	44.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 309	CNEL	97.5	2	219.3	-57.8	3.4	-15.9	-0.7	-1.22	0.0	0.9	0.0	6.7	32.8	
Motor & Pump P 312	CNEL	101.5	2	185.1	-56.3	3.3	-5.9	-0.7	-1.21	0.0	1.3	0.0	6.7	48.6	
Motor & Pump P 313	CNEL	101.5	2	183.4	-56.3	3.2	-5.9	-0.7	-1.21	0.0	1.4	0.0	6.7	48.7	
Motor & Pump P 315	CNEL	102.9	2	177.2	-56.0	3.0	-4.1	-0.8	-1.19	0.0	0.9	0.0	6.7	51.4	
Motor & Pump P 316	CNEL	102.9	2	175.2	-55.9	3.0	-4.4	-0.8	-1.20	0.0	0.7	0.0	6.7	51.0	
Motor & Pump P 317	CNEL	102.9	2	173.3	-55.8	2.9	-4.7	-0.7	-1.20	0.0	0.5	0.0	6.7	50.6	
Motor & Pump P 318	CNEL	100.2	1	179.0	-56.0	3.3	-5.3	-0.7	-1.20	0.0	1.1	0.0	6.7	47.9	
Motor & Pump P 319	CNEL	100.2	1	180.4	-56.1	3.3	-6.0	-0.7	-1.21	0.0	1.2	0.0	6.7	47.3	
Motor & Pump P 327	CNEL	111.2	3	234.7	-58.4	3.6	-21.5	-1.4	-1.16	0.0	2.2	0.0	6.7	41.3	
Motor & Pump P 328	CNEL	109.9	5	221.0	-57.9	3.2	-15.2	-0.7	-1.00	0.0	0.7	0.0	6.7	45.7	
Motor & Pump P 329	CNEL	110.2	5	223.8	-58.0	3.3	-16.0	-0.7	-0.93	0.0	1.2	0.0	6.7	45.7	
Motor & Pump P 451	CNEL	93.7		138.7	-53.8	2.4	-7.0	-0.8		0.0	0.0	0.0	6.7	41.1	
Motor & Pump P 453	CNEL	93.7		126.9	-53.1	2.2	0.0	-1.3		0.0	0.0	0.0	6.7	48.2	
Motor & Pump P 454	CNEL	93.7		139.3	-53.9	2.4	0.0	-1.4		0.0	0.0	0.0	6.7	47.5	
Motor & Pump P 457	CNEL	93.7		125.4	-53.0	2.2	0.0	-1.3		0.0	0.0	0.0	6.7	48.3	
Motor & Pump P 458	CNEL	93.7		138.7	-53.8	2.4	-4.5	-1.1		0.0	0.0	0.0	6.7	43.3	
Motor & Pump P 459	CNEL	93.7		140.3	-53.9	2.4	0.0	-1.4		0.0	0.0	0.0	6.7	47.4	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.2	-55.5	3.0	-9.3	-0.9		0.0	0.1	0.0	6.7	40.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		168.9	-55.5	3.1	-7.4	-1.0		0.0	0.0	0.0	6.7	42.0	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.7	-57.1	3.5	-4.9	-1.5	-0.81	0.0	0.0	0.0	6.7	41.2	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		203.8	-57.2	3.5	-4.8	-1.5	-0.83	0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 1601 A	CNEL	96.3	2	170.7	-55.6	2.8	-17.6	-0.9		0.0	0.0	0.0	6.7	31.7	
Motor & Pump P 1601 B	CNEL	96.3	2	171.0	-55.7	2.8	-13.3	-0.9		0.0	0.0	0.0	6.7	35.8	
Motor & Pump P 1602 A	CNEL	96.3	2	171.0	-55.7	2.8	-15.4	-0.9		0.0	0.0	0.0	6.7	33.8	
Motor & Pump P 1602 B	CNEL	96.5	2	171.4	-55.7	2.8	-17.2	-0.9		0.0	0.0	0.0	6.7	32.2	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.2	-55.5	3.2	-13.2	-0.8	-0.08	0.0	0.0	0.0	6.7	36.8	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.1	-55.8	3.2	-11.3	-0.9	-0.19	0.0	0.0	0.0	6.7	38.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.5	-55.9	3.2	-10.6	-0.9	-0.24	0.0	0.0	0.0	6.7	38.9	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.4	-55.6	3.1	-4.9	-1.2		0.0	0.0	0.0	6.7	44.7	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.2	-55.7	3.1	-4.6	-1.3		0.0	0.0	0.0	6.7	44.9	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.3	-56.2	3.3	-17.2	-1.0	-0.21	0.0	0.0	0.0	6.7	31.7	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.0	-56.1	3.3	-13.2	-0.8	-0.35	0.0	0.0	0.0	6.7	35.8	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.6	-56.1	3.3	-10.0	-1.0	-0.35	0.0	0.0	0.0	6.7	38.8	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	3.3	-12.1	-0.9	-0.35	0.0	0.0	0.0	6.7	36.9	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.6	-49.9	0.5	-0.6	-0.3		0.0	0.4	-38.6	0.0	46.2	
Tank Farm Pump 1	CNEL	99.0	3	314.2	-60.9	4.1	-2.2	-2.9		0.0	0.0	0.0	6.7	43.7	
Tank Farm Pump 2	CNEL	99.0	3	333.6	-61.5	4.2	-4.6	-2.5		0.0	0.0	0.0	6.7	41.3	
Tank Farm Pump 3	CNEL	99.0	3	339.0	-61.6	4.2	-4.6	-2.5		0.0	0.0	0.0	6.7	41.1	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	124.5	-52.9	1.2	-0.1	-1.8		0.0	0.3	-16.8	0.0	42.3	
XF-1502 Splitter Area 1	CNEL	104.5		177.4	-56.0	1.9	0.0	-1.3	-0.25	-4.4	0.0	0.0	6.7	51.2	
XF-1502 Splitter Area 2	CNEL	104.5		173.6	-55.8	1.9	0.0	-1.3	-0.02	-4.4	0.0	0.0	6.7	51.6	
XF-1504 Splitter Area 1	CNEL	104.5		177.8	-56.0	1.9	-13.5	-0.7	0.00	-3.2	0.0	0.0	6.7	39.7	
XF-1504 Splitter Area 2	CNEL	104.5		174.1	-55.8	1.9	-3.0	-1.1	-0.09	-4.2	0.0	0.0	6.7	48.8	
XF 304, XF 321	CNEL	110.5	56	211.8	-57.5	1.3	-0.9	-1.0	-1.33	-3.7	0.3	0.0	6.7	54.4	
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	1.6	-4.7	-1.1	-1.44	-3.9	0.2	0.0	6.7	51.7	
XF 335-1, XF 335-2	CNEL	113.4	54	223.7	-58.0	1.5	-3.9	-1.1	-1.30	-3.2	0.7	0.0	6.7	54.8	
XF 503	CNEL	113.0	21	158.1	-55.0	1.5	-0.5	-2.7	-1.01	-4.3	0.1	0.0	6.7	57.8	
XF - 1601	CNEL	96.6		170.3	-55.6	1.6	-2.8	-0.9		-3.3	0.0	0.0	6.7	42.3	
XF - 1602	CNEL	96.6		171.6	-55.7	1.6	-3.7	-0.8		-3.1	0.0	0.0	6.7	41.6	
XF Module 1510	CNEL	108.3		169.4	-55.6	1.9	0.0	-1.3	-0.10	-4.4	0.0	0.0	6.7	55.6	
XF Module 1519	CNEL	109.0		174.8	-55.8	1.9	0.0	-1.3	-0.20	-4.4	0.0	0.0	6.7	55.9	
Lakewood NB	CNEL		606								3.1			29.6	
Lakewood SB	CNEL		606								2.4			29.3	
Somerset Ave EB	CNEL		917								1.5			36.5	
Somerset Ave WB	CNEL		917								0.8			35.7	
Downey Ave NB	CNEL		608								1.9			36.2	
Downey Ave SB	CNEL		608								2.0			36.2	
Construction / Renewable Fuels Truck Tr	CNEL		1368								1.1			46.3	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.5			34.5	

Receiver SS-3 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.0 dB(A) Ld 7-19 dB(A) Leq,N 64.6 dB(A) Le 19-22 dB(A) CNEL 73.3 dB(A) Lmax day hr dB(A) Ld 7-1

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	82.0	-49.3	1.3	-0.1	-1.7		0.0	0.2	-10.8	0.0	48.6	
Air Compressor C 1	CNEL	110.0	5	221.5	-57.9	2.9	-9.6	-0.5	-1.23	0.0	2.4	0.0	6.7	52.7	
Air Compressor Pump	CNEL	100.3		120.2	-52.6	2.5	-17.8	-1.4		0.0	7.7	0.0	6.7	45.4	
Blower F 401	CNEL	113.0		109.5	-51.8	1.5	-13.1	-0.1		0.0	0.0	0.0	6.7	56.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.0	-58.8	2.4	-0.3	-1.2		0.0	0.0	0.0	6.7	47.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.3	-54.9	2.2	-10.6	-0.7	-0.73	4.1	3.3	0.0	6.7	54.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	161.0	-55.1	2.3	-0.1	-1.3	-0.91	0.0	0.0	0.0	6.7	52.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.4	-55.5	2.2	-14.9	-0.5	-0.52	-7.8	7.3	0.0	6.7	43.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.5	-55.0	2.1	-11.0	-0.8	-0.20	0.7	0.0	0.0	6.7	53.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.0	-55.0	2.2	-9.0	-0.6	-0.79	0.4	0.2	0.0	6.7	47.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.1	-55.5	2.1	-13.1	-0.5		-6.1	3.2	0.0	6.7	37.2	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	227.6	-58.1	2.7	-1.0	-2.4		0.0	0.0	-3.0	9.2	60.3	
Construciton Control Room Max Day	CNEL	123.7	5461	227.6	-58.1	2.7	-1.0	-2.4		0.0	0.0	-3.0	0.0	61.8	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	531.5	-65.5	4.2	-12.4	-2.3		0.0	0.2	-3.0	0.0	44.8	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	579.3	-66.3	4.4	-7.4	-3.8		0.0	0.3	-3.0	0.0	47.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	169.4	-55.6	2.6	-2.3	-1.9		0.0	0.0	-3.0	0.0	63.7	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	169.4	-55.6	2.6	-2.3	-1.9		0.0	0.0	-3.0	9.2	62.1	
Construction PreTreat Building Max Day	CNEL	123.7	6360	332.6	-61.4	3.5	-1.6	-3.7		0.0	0.2	-3.0	0.0	57.7	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	332.6	-61.4	3.5	-1.6	-3.7		0.0	0.2	-3.0	9.2	56.2	
Construction Unit A Construction Max Day	CNEL	123.7	3185	217.5	-57.7	2.5	-4.5	-2.1	-0.13	0.0	0.3	-3.0	0.0	59.0	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	177.4	-56.0	2.4	-0.3	-1.9		0.0	0.2	-3.0	9.2	63.4	
Construction Unit B Max Day	CNEL	123.7	20817	177.4	-56.0	2.4	-0.3	-1.9		0.0	0.2	-3.0	0.0	65.0	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.3	-54.7	2.5	-14.5	-0.4		-2.5	0.0	0.0	6.7	34.9	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.0	-54.6	2.4	0.0	-1.1		1.6	0.0	0.0	6.7	52.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.5	-54.9	2.4	-17.8	-0.5		-4.8	0.0	0.0	6.7	31.6	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.4	-2.2	-1.1		4.7	0.0	0.0	6.7	56.4	
Cooling Tower M 512	CNEL	95.7		146.2	-54.3	2.6	-5.8	-0.7		0.0	0.3	0.0	6.7	44.5	
Cooling Tower M 513	CNEL	95.7		145.9	-54.3	2.6	0.0	-0.8		0.0	2.4	0.0	6.7	52.3	
Cooling Tower M 514	CNEL	95.7		146.2	-54.3	2.6	-9.1	-0.6		0.0	0.5	0.0	6.7	41.5	
Heater # 5-Heater	CNEL	91.1	13	248.6	-58.9	2.5	-11.3	-0.5		0.0	0.0	0.0	6.7	32.6	
Heater # 5-Heater	CNEL	91.1	13	243.7	-58.7	2.4	-9.5	-0.5		0.0	0.0	0.0	6.7	34.5	
Heater # 5-Heater	CNEL	91.1	13	238.6	-58.5	2.3	-6.1	-0.8		0.0	0.0	0.0	6.7	37.6	
Hydro Heater H-402	CNEL	98.1		145.8	-54.3	2.5	-2.1	-0.5		0.0	0.0	0.0	6.7	50.4	
Motor & Pump P 56A/B	CNEL	93.7		162.4	-55.2	2.6	-8.4	-0.8	-1.17	0.0	0.1	0.0	6.7	37.4	
Motor & Pump P 120/121	CNEL	96.2	2	208.7	-57.4	2.7	-17.3	-0.7	-1.22	0.0	5.2	0.0	6.7	34.2	
Motor & Pump P 211/212	CNEL	93.7		141.6	-54.0	2.5	-4.5	-1.3	-0.61	0.0	0.4	0.0	6.7	42.8	
Motor & Pump P 215/214	CNEL	94.6		146.6	-54.3	2.5	-7.3	-0.8	-0.75	0.0	1.4	0.0	6.7	42.0	
Motor & Pump P 216	CNEL	98.3		144.0	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.2	0.0	6.7	51.5	
Motor & Pump P 217/218	CNEL	93.7		143.6	-54.1	2.5	-4.9	-1.2	-0.66	0.0	0.4	0.0	6.7	42.3	
Motor & Pump P 300	CNEL	97.1	2	213.1	-57.6	2.8	-15.5	-0.7	-1.23	0.0	0.0	0.0	6.7	31.6	
Motor & Pump P 301	CNEL	102.1	2	211.5	-57.5	2.7	-15.2	-0.7	-1.23	0.0	0.0	0.0	6.7	37.0	
Motor & Pump P 302	CNEL	97.1	2	214.9	-57.6	2.8	-16.2	-0.6	-1.23	0.0	0.3	0.0	6.7	31.2	
Motor & Pump P 303	CNEL	97.1	2	216.4	-57.7	2.7	-16.0	-0.6	-1.23	0.0	0.9	0.0	6.7	31.8	
Motor & Pump P 305	CNEL	97.5	2	217.8	-57.8	2.8	-15.7	-0.6	-1.23	0.0	0.6	0.0	6.7	32.2	
Motor & Pump P 306	CNEL	112.6	4	226.8	-58.1	2.7	-14.5	-0.6	-0.96	0.0	1.0	0.0	6.7	48.8	
Motor & Pump P 307	CNEL	102.1	2	206.7	-57.3	2.7	-7.1	-1.0	-1.19	0.0	0.0	0.0	6.7	44.9	
Motor & Pump P 309	CNEL	97.5	2	219.3	-57.8	2.8	-15.5	-0.6	-1.23	0.0	0.8	0.0	6.7	32.6	
Motor & Pump P 312	CNEL	101.5	2	185.2	-56.3	2.6	-3.9	-0.9	-1.19	0.0	1.6	0.0	6.7	50.0	
Motor & Pump P 313	CNEL	101.5	2	183.5	-56.3	2.6	-3.9	-0.9	-1.19	0.0	1.6	0.0	6.7	50.1	
Motor & Pump P 315	CNEL	102.9	2	177.2	-56.0	2.5	-3.4	-0.8	-1.20	0.0	1.1	0.0	6.7	51.8	
Motor & Pump P 316	CNEL	102.9	2	175.3	-55.9	2.5	-3.7	-0.8	-1.20	0.0	0.8	0.0	6.7	51.4	
Motor & Pump P 317	CNEL	102.9	2	173.4	-55.8	2.5	-3.8	-0.8	-1.20	0.0	0.5	0.0	6.7	51.0	
Motor & Pump P 318	CNEL	100.2	1	179.1	-56.1	2.6	-3.8	-0.8	-1.20	0.0	1.4	0.0	6.7	49.0	
Motor & Pump P 319	CNEL	100.2	1	180.5	-56.1	2.6	-3.9	-0.8	-1.20	0.0	1.4	0.0	6.7	48.8	
Motor & Pump P 327	CNEL	111.2	3	234.7	-58.4	3.0	-21.4	-1.4	-0.09	0.0	2.1	0.0	6.7	41.7	
Motor & Pump P 328	CNEL	109.9	5	221.0	-57.9	2.6	-14.8	-0.7	-1.01	0.0	0.6	0.0	6.7	45.5	
Motor & Pump P 329	CNEL	110.2	5	223.9	-58.0	2.7	-15.5	-0.7	-0.95	0.0	1.1	0.0	6.7	45.5	
Motor & Pump P 451	CNEL	93.7		138.8	-53.8	2.5	-6.8	-0.8		0.0	0.0	0.0	6.7	41.4	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 453	CNEL	93.7		127.0	-53.1	2.5	0.0	-1.3		0.0	0.0	0.0	6.7	48.5	
Motor & Pump P 454	CNEL	93.7		139.4	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6	
Motor & Pump P 457	CNEL	93.7		125.5	-53.0	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	48.6	
Motor & Pump P 458	CNEL	93.7		138.7	-53.8	2.5	-4.4	-1.1		0.0	0.0	0.0	6.7	43.6	
Motor & Pump P 459	CNEL	93.7		140.4	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.3	-55.5	2.6	-9.0	-0.9		0.0	0.1	0.0	6.7	40.3	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		169.0	-55.5	2.6	-7.2	-1.0		0.0	0.0	0.0	6.7	41.8	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.7	-57.1	2.7	-3.8	-1.5	-0.81	0.0	0.0	0.0	6.7	41.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		203.9	-57.2	2.7	-3.6	-1.5	-0.83	0.0	0.0	0.0	6.7	41.6	
Motor & Pump P 1601 A	CNEL	96.3	2	170.8	-55.6	2.7	-17.3	-0.8		0.0	0.0	0.0	6.7	31.9	
Motor & Pump P 1601 B	CNEL	96.3	2	171.1	-55.7	2.7	-13.2	-0.9		0.0	0.0	0.0	6.7	35.9	
Motor & Pump P 1602 A	CNEL	96.3	2	171.1	-55.7	2.7	-15.2	-0.9		0.0	0.0	0.0	6.7	33.9	
Motor & Pump P 1602 B	CNEL	96.5	2	171.4	-55.7	2.7	-16.9	-0.9		0.0	0.0	0.0	6.7	32.4	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.3	-55.5	2.6	-11.9	-0.8	-0.08	0.0	0.0	0.0	6.7	37.6	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.2	-55.8	2.6	-10.1	-0.9	-0.19	0.0	0.0	0.0	6.7	39.0	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.6	-55.9	2.6	-9.3	-0.9	-0.24	0.0	0.0	0.0	6.7	39.5	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.4	-55.6	2.6	-4.8	-1.2		0.0	0.0	0.0	6.7	44.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.2	-55.7	2.6	-4.4	-1.2		0.0	0.0	0.0	6.7	44.6	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.3	-56.2	2.7	-17.1	-0.9	-0.21	0.0	0.0	0.0	6.7	31.2	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.1	-56.2	2.7	-10.6	-0.9	-0.35	0.0	0.0	0.0	6.7	37.6	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.7	-56.1	2.6	-8.6	-1.0	-0.35	0.0	0.0	0.0	6.7	39.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	2.7	-10.0	-0.9	-0.35	0.0	0.0	0.0	6.7	38.3	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.8	-50.0	0.8	-0.2	-0.3		0.0	0.4	-38.6	0.0	46.8	
Tank Farm Pump 1	CNEL	99.0	3	314.3	-60.9	3.7	-0.7	-2.6		0.0	0.0	0.0	6.7	45.2	
Tank Farm Pump 2	CNEL	99.0	3	333.7	-61.5	3.8	-4.0	-2.6		0.0	0.0	0.0	6.7	41.5	
Tank Farm Pump 3	CNEL	99.0	3	339.0	-61.6	3.9	-4.1	-2.6		0.0	0.0	0.0	6.7	41.3	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	124.6	-52.9	1.2	0.0	-1.8		0.0	0.3	-16.8	0.0	42.4	
XF-1502 Splitter Area 1	CNEL	104.5		177.3	-56.0	2.3	0.0	-1.3	-0.01	-4.3	0.0	0.0	6.7	52.0	
XF-1502 Splitter Area 2	CNEL	104.5		173.6	-55.8	2.3	0.0	-1.3		-4.3	0.0	0.0	6.7	52.2	
XF-1504 Splitter Area 1	CNEL	104.5		177.7	-56.0	2.3	-4.0	-1.1	0.00	-4.0	0.0	0.0	6.7	48.4	
XF-1504 Splitter Area 2	CNEL	104.5		174.0	-55.8	2.3	-4.4	-1.3		-4.3	0.0	0.0	6.7	47.7	
XF 304, XF 321	CNEL	110.5	56	211.7	-57.5	2.1	-0.5	-0.9	-1.03	-3.2	0.3	0.0	6.7	56.5	
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	2.2	-4.9	-1.0	-1.05	-3.7	0.2	0.0	6.7	52.8	
XF 335-1, XF 335-2	CNEL	113.4	54	223.6	-58.0	2.2	-3.5	-1.0	-0.37	-3.1	0.7	0.0	6.7	57.0	
XF 503	CNEL	113.0	21	158.1	-55.0	2.1	-0.1	-2.3	-1.05	-4.1	0.0	0.0	6.7	59.2	
XF - 1601	CNEL	96.6		170.1	-55.6	2.3	-0.9	-0.7		-3.4	0.0	0.0	6.7	45.0	
XF - 1602	CNEL	96.6		171.4	-55.7	2.3	-1.3	-0.7		-3.4	0.0	0.0	6.7	44.5	
XF Module 1510	CNEL	108.3		169.4	-55.6	2.3	0.0	-1.2	-0.10	-4.3	0.0	0.0	6.7	56.1	
XF Module 1519	CNEL	109.0		174.7	-55.8	2.3	0.0	-1.3	-0.21	-4.3	0.0	0.0	6.7	56.4	
Lakewood NB	CNEL		606								2.5			29.4	
Lakewood SB	CNEL		606								2.2			29.5	
Somerset Ave EB	CNEL		917								1.3			37.9	
Somerset Ave WB	CNEL		917								0.3			37.0	
Downey Ave NB	CNEL		608								1.7			37.4	
Downey Ave SB	CNEL		608								1.8			37.3	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.9			46.4	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.2			34.2	
Receiver SS-3 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.1 dB(A) Ld 7-19 dB(A) Leq,N 65.0 dB(A) Le 19-22 dB(A) CNEL 73.6 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	82.3	-49.3	1.3	-0.1	-1.7		0.0	0.2	-10.8	0.0	48.6	
Air Compressor C 1	CNEL	110.0	5	221.6	-57.9	2.7	-8.8	-0.5	-1.23	0.0	3.0	0.0	6.7	53.9	
Air Compressor Pump	CNEL	100.3		120.4	-52.6	2.5	-17.7	-1.3		0.0	9.2	0.0	6.7	47.0	
Blower F 401	CNEL	113.0		109.7	-51.8	1.6	-12.8	-0.1		0.0	0.0	0.0	6.7	56.5	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.1	-58.8	2.4	0.0	-1.1		0.0	0.0	0.0	6.7	47.7	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.4	-54.9	2.3	-10.3	-0.7	-0.73	4.1	3.4	0.0	6.7	54.5	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	161.1	-55.1	2.3	-0.1	-1.3	-0.91	0.0	0.0	0.0	6.7	52.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.5	-55.5	2.3	-14.7	-0.5	-0.52	-7.8	9.1	0.0	6.7	45.6	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.6	-55.0	2.2	-10.9	-0.8	-0.20	0.7	0.0	0.0	6.7	53.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.1	-55.0	2.3	-8.7	-0.6	-0.79	0.4	0.2	0.0	6.7	48.2	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.2	-55.5	2.2	-13.0	-0.5		-6.1	3.1	0.0	6.7	37.3	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	227.7	-58.1	2.7	-1.0	-2.5		0.0	0.0	-3.0	9.2	60.3	
Construciton Control Room Max Day	CNEL	123.7	5461	227.7	-58.1	2.7	-1.0	-2.5		0.0	0.0	-3.0	0.0	61.8	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	531.5	-65.5	3.9	-11.8	-2.4		0.0	0.2	-3.0	0.0	45.0	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	579.3	-66.3	4.1	-6.9	-3.8		0.0	0.3	-3.0	0.0	48.2	
Construction H2 Plant Max Day	CNEL	123.7	9281	169.5	-55.6	2.7	-1.9	-2.0		0.0	0.0	-3.0	0.0	63.9	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	169.5	-55.6	2.7	-1.9	-2.0		0.0	0.0	-3.0	9.2	62.4	
Construction PreTreat Building Max Day	CNEL	123.7	6360	332.7	-61.4	2.9	-1.2	-3.5		0.0	0.2	-3.0	0.0	57.7	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	332.7	-61.4	2.9	-1.2	-3.5		0.0	0.2	-3.0	9.2	56.2	
Construction Unit A Construction Max Day	CNEL	123.7	3185	217.6	-57.7	2.6	-3.9	-2.2	-0.14	0.0	0.3	-3.0	0.0	59.5	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	177.5	-56.0	2.4	-0.3	-1.9		0.0	0.1	-3.0	9.2	63.5	
Construction Unit B Max Day	CNEL	123.7	20817	177.5	-56.0	2.4	-0.3	-1.9		0.0	0.1	-3.0	0.0	65.0	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.4	-54.7	2.5	-13.7	-0.4		-2.5	0.0	0.0	6.7	35.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.1	-54.6	2.5	0.0	-1.1		1.6	0.0	0.0	6.7	52.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.6	-54.9	2.5	-17.6	-0.5		-4.8	0.0	0.0	6.7	31.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.5	-1.8	-1.1		4.7	0.0	0.0	6.7	56.8	
Cooling Tower M 512	CNEL	95.7		146.3	-54.3	2.6	-5.6	-0.7		0.0	0.4	0.0	6.7	44.8	
Cooling Tower M 513	CNEL	95.7		146.0	-54.3	2.6	0.0	-0.8		0.0	2.4	0.0	6.7	52.3	
Cooling Tower M 514	CNEL	95.7		146.3	-54.3	2.6	-8.6	-0.6		0.0	0.7	0.0	6.7	42.2	
Heater # 5-Heater	CNEL	91.1	13	248.7	-58.9	2.4	-11.1	-0.5		0.0	0.0	0.0	6.7	32.7	
Heater # 5-Heater	CNEL	91.1	13	243.7	-58.7	2.4	-9.3	-0.5		0.0	0.0	0.0	6.7	34.6	
Heater # 5-Heater	CNEL	91.1	13	238.7	-58.5	2.4	-6.1	-0.8		0.0	0.0	0.0	6.7	37.8	
Hydro Heater H-402	CNEL	98.1		145.9	-54.3	2.6	-1.8	-0.5		0.0	0.0	0.0	6.7	50.7	
Motor & Pump P 56A/B	CNEL	93.7		162.5	-55.2	2.6	-4.9	-1.0	-1.15	0.0	0.0	0.0	6.7	40.6	
Motor & Pump P 120/121	CNEL	96.2	2	208.8	-57.4	2.7	-15.7	-0.7	-1.21	0.0	6.0	0.0	6.7	36.5	
Motor & Pump P 211/212	CNEL	93.7		141.8	-54.0	2.5	-4.4	-1.3	-0.61	0.0	0.4	0.0	6.7	42.9	
Motor & Pump P 215/214	CNEL	94.6		146.8	-54.3	2.5	-6.8	-0.9	-0.75	0.0	1.4	0.0	6.7	42.5	
Motor & Pump P 216	CNEL	98.3		144.1	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.2	0.0	6.7	51.5	
Motor & Pump P 217/218	CNEL	93.7		143.7	-54.1	2.5	-4.7	-1.2	-0.66	0.0	0.4	0.0	6.7	42.4	
Motor & Pump P 300	CNEL	97.1	2	213.2	-57.6	2.7	-7.8	-0.8	-1.21	0.0	0.0	0.0	6.7	39.1	
Motor & Pump P 301	CNEL	102.1	2	211.6	-57.5	2.7	-6.9	-0.9	-1.20	0.0	0.0	0.0	6.7	44.9	
Motor & Pump P 302	CNEL	97.1	2	215.0	-57.6	2.7	-8.6	-0.8	-1.21	0.0	0.1	0.0	6.7	38.3	
Motor & Pump P 303	CNEL	97.1	2	216.5	-57.7	2.7	-8.8	-0.8	-1.21	0.0	0.1	0.0	6.7	38.1	
Motor & Pump P 305	CNEL	97.5	2	217.9	-57.8	2.7	-9.0	-0.8	-1.22	0.0	0.0	0.0	6.7	38.2	
Motor & Pump P 306	CNEL	112.6	4	226.8	-58.1	2.7	-10.1	-0.7	-0.96	0.0	0.1	0.0	6.7	52.3	
Motor & Pump P 307	CNEL	102.1	2	206.8	-57.3	2.7	-5.0	-1.0	-1.18	0.0	0.0	0.0	6.7	46.9	
Motor & Pump P 309	CNEL	97.5	2	219.4	-57.8	2.7	-9.3	-0.7	-1.22	0.0	0.0	0.0	6.7	37.8	
Motor & Pump P 312	CNEL	101.5	2	185.3	-56.4	2.6	-3.7	-0.9	-1.19	0.0	1.6	0.0	6.7	50.2	
Motor & Pump P 313	CNEL	101.5	2	183.6	-56.3	2.6	-3.7	-0.9	-1.19	0.0	1.5	0.0	6.7	50.3	
Motor & Pump P 315	CNEL	102.9	2	177.4	-56.0	2.6	-3.4	-0.8	-1.20	0.0	1.0	0.0	6.7	51.8	
Motor & Pump P 316	CNEL	102.9	2	175.4	-55.9	2.6	-3.4	-0.8	-1.20	0.0	0.7	0.0	6.7	51.6	
Motor & Pump P 317	CNEL	102.9	2	173.5	-55.8	2.6	-3.4	-0.8	-1.20	0.0	0.4	0.0	6.7	51.4	
Motor & Pump P 318	CNEL	100.2	1	179.2	-56.1	2.6	-3.6	-0.9	-1.19	0.0	1.3	0.0	6.7	49.1	
Motor & Pump P 319	CNEL	100.2	1	180.6	-56.1	2.6	-3.6	-0.9	-1.19	0.0	1.4	0.0	6.7	49.0	
Motor & Pump P 327	CNEL	111.2	3	234.8	-58.4	2.7	-20.5	-1.3		0.0	1.8	0.0	6.7	42.2	
Motor & Pump P 328	CNEL	109.9	5	221.1	-57.9	2.7	-9.3	-0.8	-1.07	0.0	0.1	0.0	6.7	50.3	
Motor & Pump P 329	CNEL	110.2	5	223.9	-58.0	2.7	-10.2	-0.8	-1.00	0.0	0.1	0.0	6.7	49.6	
Motor & Pump P 451	CNEL	93.7		139.0	-53.8	2.5	-6.7	-0.8		0.0	0.0	0.0	6.7	41.6	
Motor & Pump P 453	CNEL	93.7		127.1	-53.1	2.5	0.0	-1.3		0.0	0.0	0.0	6.7	48.5	
Motor & Pump P 454	CNEL	93.7		139.5	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6	
Motor & Pump P 457	CNEL	93.7		125.6	-53.0	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	48.6	
Motor & Pump P 458	CNEL	93.7		138.9	-53.8	2.5	-4.3	-1.1		0.0	0.0	0.0	6.7	43.6	
Motor & Pump P 459	CNEL	93.7		140.5	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.4	-55.5	2.6	-8.9	-0.9		0.0	0.0	0.0	6.7	40.3	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		169.1	-55.6	2.6	-7.1	-1.0		0.0	0.0	0.0	6.7	41.9	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.8	-57.1	2.7	-3.2	-1.5	-0.81	0.0	0.0	0.0	6.7	42.1	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		204.0	-57.2	2.7	-3.1	-1.5	-0.83	0.0	0.0	0.0	6.7	42.1	
Motor & Pump P 1601 A	CNEL	96.3	2	170.9	-55.6	2.7	-8.8	-1.0		0.0	0.0	0.0	6.7	40.2	
Motor & Pump P 1601 B	CNEL	96.3	2	171.2	-55.7	2.7	-13.1	-0.9		0.0	0.0	0.0	6.7	36.0	
Motor & Pump P 1602 A	CNEL	96.3	2	171.2	-55.7	2.7	-15.1	-0.8		0.0	0.0	0.0	6.7	34.0	
Motor & Pump P 1602 B	CNEL	96.5	2	171.5	-55.7	2.7	-16.8	-0.8		0.0	0.0	0.0	6.7	32.5	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.4	-55.5	2.7	-11.7	-0.8	-0.08	0.0	0.0	0.0	6.7	37.8	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.3	-55.8	2.7	-9.8	-0.9	-0.19	0.0	0.0	0.0	6.7	39.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.7	-55.9	2.7	-9.0	-0.9	-0.24	0.0	0.0	0.0	6.7	39.9	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.6	-55.6	2.7	-4.7	-1.2		0.0	0.0	0.0	6.7	44.5	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.4	-55.7	2.7	-4.4	-1.2		0.0	0.0	0.0	6.7	44.7	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.4	-56.2	2.7	-17.0	-0.9	-0.21	0.0	0.0	0.0	6.7	31.3	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.2	-56.2	2.7	-9.9	-0.9	-0.35	0.0	0.0	0.0	6.7	38.3	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	2.7	-8.2	-1.0	-0.35	0.0	0.0	0.0	6.7	40.1	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.9	-56.1	2.7	-9.4	-0.9	-0.35	0.0	0.0	0.0	6.7	38.9	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	89.1	-50.0	0.8	-0.1	-0.3		0.0	0.4	-38.6	0.0	46.9	
Tank Farm Pump 1	CNEL	99.0	3	314.3	-60.9	3.1	-0.4	-2.4		0.0	0.0	0.0	6.7	45.0	
Tank Farm Pump 2	CNEL	99.0	3	333.7	-61.5	3.2	-2.8	-2.9		0.0	0.0	0.0	6.7	41.7	
Tank Farm Pump 3	CNEL	99.0	3	339.1	-61.6	3.3	-2.9	-3.0		0.0	0.0	0.0	6.7	41.5	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	125.0	-52.9	1.2	0.0	-1.8		0.0	0.2	-16.8	0.0	42.3	
XF-1502 Splitter Area 1	CNEL	104.5		177.3	-56.0	2.4	0.0	-1.3	0.00	-4.2	0.0	0.0	6.7	52.0	
XF-1502 Splitter Area 2	CNEL	104.5		173.5	-55.8	2.3	0.0	-1.3		-4.2	0.0	0.0	6.7	52.2	
XF-1504 Splitter Area 1	CNEL	104.5		177.7	-56.0	2.4	-4.0	-1.1	0.00	-3.9	0.0	0.0	6.7	48.5	
XF-1504 Splitter Area 2	CNEL	104.5		173.9	-55.8	2.3	-1.2	-1.6		-4.5	0.0	0.0	6.7	50.5	
XF 304, XF 321	CNEL	110.5	56	211.7	-57.5	2.3	-0.3	-0.8		-2.9	0.3	0.0	6.7	58.2	
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	2.4	-4.9	-0.9	-0.50	-3.6	0.0	0.0	6.7	53.5	
XF 335-1, XF 335-2	CNEL	113.4	54	223.6	-58.0	2.3	-3.3	-1.0	0.00	-2.9	0.8	0.0	6.7	58.0	
XF 503	CNEL	113.0	21	158.1	-55.0	2.1	0.0	-2.3	-1.05	-3.9	0.0	0.0	6.7	59.6	
XF - 1601	CNEL	96.6		170.0	-55.6	2.4	-0.2	-0.6		-2.8	0.0	0.0	6.7	46.4	
XF - 1602	CNEL	96.6		171.3	-55.7	2.4	-0.4	-0.6		-3.0	0.0	0.0	6.7	45.9	
XF Module 1510	CNEL	108.3		169.3	-55.6	2.3	0.0	-1.2	-0.10	-4.2	0.0	0.0	6.7	56.2	
XF Module 1519	CNEL	109.0		174.7	-55.8	2.3	0.0	-1.3	-0.21	-4.2	0.0	0.0	6.7	56.5	
Lakewood NB	CNEL		606								2.9			30.0	
Lakewood SB	CNEL		606								2.2			29.9	
Somerset Ave EB	CNEL		917								1.2			38.9	
Somerset Ave WB	CNEL		917								0.3			38.1	
Downey Ave NB	CNEL		608								1.6			38.6	
Downey Ave SB	CNEL		608								1.7			38.5	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.9			46.8	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.3			34.3	
Receiver SS-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.9 dB(A) Ld 7-19 dB(A) Leq,N 63.2 dB(A) Le 19-22 dB(A) CNEL 72.6 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	79.7	-49.0	1.2	-0.1	-1.8		0.0	0.1	-10.8	0.0	48.6	
Air Compressor C 1	CNEL	110.0	5	248.8	-58.9	3.1	-5.9	-1.0	-0.75	0.0	1.4	0.0	6.7	54.5	
Air Compressor Pump	CNEL	100.3		112.2	-52.0	2.2	-18.8	-1.6		0.0	7.4	0.0	6.7	44.2	
Blower F 401	CNEL	113.0		139.7	-53.9	0.1	-12.6	-0.2		0.0	0.0	0.0	6.7	53.1	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.7	-57.4	1.9	-1.1	-1.3		0.0	0.0	0.0	6.7	47.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.7	-56.6	1.4	-11.8	-0.8	-0.82	3.3	1.7	0.0	6.7	47.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	1.6	-4.6	-1.4	-1.02	0.0	0.8	0.0	6.7	46.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.3	-57.0	1.5	-18.1	-0.5	-0.67	-7.8	10.6	0.0	6.7	41.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.1	-56.7	1.3	-11.2	-1.0	-0.40	1.2	0.0	0.0	6.7	50.6	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	1.4	-12.7	-0.7	-0.76	0.9	0.5	0.0	6.7	42.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	1.5	-15.6	-0.5	-0.04	-6.9	0.2	0.0	6.7	28.7	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	209.5	-57.4	3.1	-0.6	-2.5		0.0	0.0	-3.0	9.2	61.8	
Construciton Control Room Max Day	CNEL	123.7	5461	209.5	-57.4	3.1	-0.6	-2.5		0.0	0.0	-3.0	0.0	63.3	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	499.5	-65.0	3.8	-14.3	-2.3		0.0	0.2	-3.0	0.0	43.2	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	558.5	-65.9	4.3	-9.9	-2.8		0.0	0.3	-3.0	0.0	46.7	
Construction H2 Plant Max Day	CNEL	123.7	9281	171.1	-55.7	2.7	-3.5	-1.9		0.0	0.1	-3.0	0.0	62.4	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	171.1	-55.7	2.7	-3.5	-1.9		0.0	0.1	-3.0	9.2	60.9	
Construction PreTreat Building Max Day	CNEL	123.7	6360	306.7	-60.7	3.6	-2.6	-3.6		0.0	0.2	-3.0	0.0	57.5	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	306.7	-60.7	3.6	-2.6	-3.6		0.0	0.2	-3.0	9.2	56.0	
Construction Unit A Construction Max Day	CNEL	123.7	3185	251.8	-59.0	2.8	-6.7	-2.3	-0.24	0.0	0.5	-3.0	0.0	55.8	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	150.1	-54.5	2.1	-0.7	-1.9		0.0	0.2	-3.0	9.2	64.4	
Construction Unit B Max Day	CNEL	123.7	20817	150.1	-54.5	2.1	-0.7	-1.9		0.0	0.2	-3.0	0.0	66.0	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.7	-55.7	2.1	-10.7	-0.5		2.3	0.0	0.0	6.7	41.9	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.0	-55.8	2.0	-14.7	-0.6		-2.8	0.0	0.0	6.7	32.6	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.4	-55.7	1.9	-5.6	-1.0		-1.4	0.3	0.0	6.7	45.7	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.1	-55.7	1.9	-16.2	-0.5		-0.6	0.0	0.0	6.7	36.3	
Cooling Tower M 512	CNEL	95.7		166.9	-55.4	2.9	-15.8	-0.6		0.0	1.0	0.0	6.7	34.4	
Cooling Tower M 513	CNEL	95.7		166.9	-55.4	2.8	-14.5	-0.6		0.0	0.7	0.0	6.7	35.4	
Cooling Tower M 514	CNEL	95.7		166.6	-55.4	2.9	-15.4	-0.6		0.0	0.9	0.0	6.7	34.8	
Heater # 5-Heater	CNEL	91.1	13	211.5	-57.5	2.0	-9.2	-0.6		0.0	0.0	0.0	6.7	35.5	
Heater # 5-Heater	CNEL	91.1	13	206.5	-57.3	2.0	-7.9	-0.6		0.0	0.0	0.0	6.7	36.9	
Heater # 5-Heater	CNEL	91.1	13	201.5	-57.1	1.9	-5.3	-0.9		0.0	0.0	0.0	6.7	39.4	
Hydro Heater H-402	CNEL	98.1		172.0	-55.7	1.7	-5.8	-0.6		0.0	1.1	0.0	6.7	45.4	
Motor & Pump P 56A/B	CNEL	93.7		189.6	-56.5	2.9	-5.9	-1.1	-0.48	0.0	0.0	0.0	6.7	39.2	
Motor & Pump P 120/121	CNEL	96.2	2	236.3	-58.5	3.3	-19.1	-0.8	-0.80	0.0	0.0	0.0	6.7	27.0	
Motor & Pump P 211/212	CNEL	93.7		173.0	-55.8	2.7	-8.1	-1.1	-0.65	0.0	0.0	0.0	6.7	37.4	
Motor & Pump P 215/214	CNEL	94.6		177.8	-56.0	2.8	-11.7	-0.9	-0.78	0.0	0.0	0.0	6.7	34.7	
Motor & Pump P 216	CNEL	98.3		176.3	-55.9	2.5	-5.1	-1.5	-0.67	0.0	0.9	0.0	6.7	45.3	
Motor & Pump P 217/218	CNEL	93.7		174.8	-55.8	3.1	-8.9	-1.0	-0.70	0.0	0.0	0.0	6.7	36.9	
Motor & Pump P 300	CNEL	97.1	2	242.1	-58.7	3.3	-17.5	-0.9	-1.03	0.0	0.8	0.0	6.7	29.8	
Motor & Pump P 301	CNEL	102.1	2	240.5	-58.6	3.3	-17.3	-0.9	-1.05	0.0	0.3	0.0	6.7	34.5	
Motor & Pump P 302	CNEL	97.1	2	243.8	-58.7	3.3	-17.5	-0.8	-1.00	0.0	1.6	0.0	6.7	30.6	
Motor & Pump P 303	CNEL	97.1	2	245.3	-58.8	3.3	-17.3	-0.8	-0.98	0.0	1.8	0.0	6.7	31.0	
Motor & Pump P 305	CNEL	97.5	2	246.7	-58.8	3.3	-17.2	-0.8	-0.96	0.0	2.4	0.0	6.7	32.1	
Motor & Pump P 306	CNEL	112.6	4	255.3	-59.1	2.8	-15.1	-0.8	-0.88	0.0	0.9	0.0	6.7	47.2	
Motor & Pump P 307	CNEL	102.1	2	235.9	-58.4	3.2	-13.1	-0.8	-1.13	0.0	0.0	0.0	6.7	38.5	
Motor & Pump P 309	CNEL	97.5	2	248.1	-58.9	3.3	-17.1	-0.8	-0.94	0.0	3.0	0.0	6.7	32.8	
Motor & Pump P 312	CNEL	101.5	2	215.2	-57.7	3.2	-3.0	-1.0	-1.23	0.0	0.3	0.0	6.7	48.8	
Motor & Pump P 313	CNEL	101.5	2	213.6	-57.6	3.2	-3.4	-1.0	-1.24	0.0	0.3	0.0	6.7	48.5	
Motor & Pump P 315	CNEL	102.9	2	207.6	-57.3	3.0	-4.4	-0.9	-1.24	0.0	0.9	0.0	6.7	49.5	
Motor & Pump P 316	CNEL	102.9	2	205.8	-57.3	3.0	-4.6	-0.9	-1.25	0.0	1.3	0.0	6.7	49.8	
Motor & Pump P 317	CNEL	102.9	2	203.9	-57.2	2.9	-4.7	-0.9	-1.25	0.0	1.6	0.0	6.7	50.0	
Motor & Pump P 318	CNEL	100.2	1	209.3	-57.4	3.2	-4.2	-0.9	-1.24	0.0	0.5	0.0	6.7	46.8	
Motor & Pump P 319	CNEL	100.2	1	210.7	-57.5	3.2	-4.0	-0.9	-1.24	0.0	0.4	0.0	6.7	46.9	
Motor & Pump P 327	CNEL	111.2	3	263.1	-59.4	3.6	-21.6	-1.5	-0.74	0.0	4.7	0.0	6.7	42.9	
Motor & Pump P 328	CNEL	109.9	5	249.7	-58.9	3.2	-16.6	-0.8	-0.91	0.0	1.1	0.0	6.7	43.7	
Motor & Pump P 329	CNEL	110.2	5	252.5	-59.0	3.3	-16.4	-0.9	-0.84	0.0	1.2	0.0	6.7	44.1	
Motor & Pump P 451	CNEL	93.7		165.1	-55.3	2.7	-9.8	-1.0		0.0	0.0	0.0	6.7	36.8	
Motor & Pump P 453	CNEL	93.7		153.1	-54.7	2.5	-6.8	-1.0		0.0	0.0	0.0	6.7	40.3	
Motor & Pump P 454	CNEL	93.7		165.9	-55.4	2.7	-13.1	-0.8		0.0	6.6	0.0	6.7	40.3	
Motor & Pump P 457	CNEL	93.7		151.6	-54.6	2.5	-7.7	-0.9		0.0	0.0	0.0	6.7	39.6	
Motor & Pump P 458	CNEL	93.7		164.8	-55.3	2.7	-6.8	-1.2		0.0	0.0	0.0	6.7	39.7	
Motor & Pump P 459	CNEL	93.7		166.9	-55.4	2.7	-12.1	-0.9		0.0	5.9	0.0	6.7	40.5	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.1	-56.6	3.2	-13.1	-1.0		0.0	0.0	0.0	6.7	35.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.8	-56.6	3.2	-10.6	-1.1		0.0	0.0	0.0	6.7	37.7	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.8	-58.0	3.5	-18.3	-1.1	-0.83	0.0	0.0	0.0	6.7	27.4	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		224.9	-58.0	3.5	-18.2	-1.1	-0.86	0.0	0.0	0.0	6.7	27.5	
Motor & Pump P 1601 A	CNEL	96.3	2	188.2	-56.5	3.0	-20.8	-1.1		0.0	0.0	0.0	6.7	27.6	
Motor & Pump P 1601 B	CNEL	96.3	2	188.1	-56.5	3.0	-21.1	-1.1		0.0	0.2	0.0	6.7	27.5	
Motor & Pump P 1602 A	CNEL	96.3	2	187.9	-56.5	3.0	-21.2	-1.1		0.0	0.2	0.0	6.7	27.3	
Motor & Pump P 1602 B	CNEL	96.5	2	187.9	-56.5	3.0	-21.3	-1.1		0.0	2.6	0.0	6.7	29.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.4	-56.5	3.3	-19.0	-1.0	-0.08	0.0	0.0	0.0	6.7	30.0	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.3	-56.8	3.3	-17.9	-1.0	-0.18	0.0	0.0	0.0	6.7	30.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.7	-56.9	3.3	-17.4	-1.0	-0.24	0.0	0.0	0.0	6.7	31.1	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.2	-56.7	3.2	-12.5	-0.9		0.0	0.0	0.0	6.7	36.5	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	194.9	-56.8	3.2	-12.8	-0.9		0.0	0.0	0.0	6.7	36.1	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.2	-57.1	3.4	-12.6	-1.0	-0.28	0.0	0.0	0.0	6.7	35.5	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.4	-57.1	3.4	-18.8	-0.9	-0.35	0.0	0.0	0.0	6.7	29.2	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.7	-57.1	3.4	-16.5	-1.0	-0.35	0.0	0.0	0.0	6.7	31.5	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.5	-57.1	3.4	-18.8	-1.0	-0.35	0.0	0.0	0.0	6.7	29.2	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.3	-49.9	0.3	-0.8	-0.3		0.0	0.3	-38.6	0.0	45.7	
Tank Farm Pump 1	CNEL	99.0	3	294.4	-60.4	4.0	-4.6	-2.2		0.0	0.0	0.0	6.7	42.5	
Tank Farm Pump 2	CNEL	99.0	3	312.7	-60.9	4.1	-4.7	-2.3		0.0	0.0	0.0	6.7	41.9	
Tank Farm Pump 3	CNEL	99.0	3	317.7	-61.0	4.1	-4.7	-2.4		0.0	0.0	0.0	6.7	41.7	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	131.7	-53.4	1.1	-0.1	-1.8		0.0	0.2	-16.8	0.0	41.6	
XF-1502 Splitter Area 1	CNEL	104.5		198.1	-56.9	1.7	-2.6	-1.3	-0.25	-4.3	0.0	0.0	6.7	47.5	
XF-1502 Splitter Area 2	CNEL	104.5		194.4	-56.8	1.6	-2.8	-1.3		-4.3	0.0	0.0	6.7	47.7	
XF-1504 Splitter Area 1	CNEL	104.5		197.7	-56.9	1.7	-4.3	-1.2	-0.03	-4.2	0.0	0.0	6.7	46.3	
XF-1504 Splitter Area 2	CNEL	104.5		194.0	-56.7	1.7	-4.2	-1.1		-4.2	0.0	0.0	6.7	46.6	
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	0.7	-1.1	-1.1	-1.23	-3.5	0.3	0.0	6.7	52.5	
XF 313, XF 314	CNEL	113.0	18	270.5	-59.6	1.3	-3.4	-1.0	-1.11	-3.8	0.0	0.0	6.7	52.1	
XF 335-1, XF 335-2	CNEL	113.4	54	253.1	-59.1	1.0	-4.4	-1.2	-0.95	-3.1	0.8	0.0	6.7	53.1	
XF 503	CNEL	113.0	21	187.6	-56.5	1.0	-0.3	-3.0	-1.07	-4.2	0.0	0.0	6.7	55.7	
XF - 1601	CNEL	96.6		187.3	-56.4	1.2	-3.4	-0.9		-3.1	0.0	0.0	6.7	40.6	
XF - 1602	CNEL	96.6		187.4	-56.4	1.2	-2.9	-1.0		-3.2	0.0	0.0	6.7	40.9	
XF Module 1510	CNEL	108.3		191.3	-56.6	1.6	-4.2	-1.3	-0.10	-4.2	0.0	0.0	6.7	50.3	
XF Module 1519	CNEL	109.0		196.6	-56.9	1.6	-4.0	-1.3	-0.20	-4.2	0.0	0.0	6.7	50.8	
Lakewood NB	CNEL		606								2.6			29.9	
Lakewood SB	CNEL		606								2.5			29.9	
Somerset Ave EB	CNEL		917								1.6			39.2	
Somerset Ave WB	CNEL		917								1.4			38.9	
Downey Ave NB	CNEL		608								0.9			33.1	
Downey Ave SB	CNEL		608								0.8			32.9	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.7			47.6	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.1			33.7	
Receiver SS-4 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.4 dB(A) Ld 7-19 dB(A) Leq,N 64.0 dB(A) Le 19-22 dB(A) CNEL 73.2 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	79.8	-49.0	1.3	-0.1	-1.7		0.0	0.1	-10.8	0.0	48.7	
Air Compressor C 1	CNEL	110.0	5	248.9	-58.9	3.2	-5.6	-0.9	-0.77	0.0	1.7	0.0	6.7	55.4	
Air Compressor Pump	CNEL	100.3		112.3	-52.0	2.5	-18.6	-1.5		0.0	8.2	0.0	6.7	45.6	
Blower F 401	CNEL	113.0		139.7	-53.9	2.1	-12.8	-0.2		0.0	0.0	0.0	6.7	54.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.7	-57.4	2.1	-0.2	-1.0		0.0	0.0	0.0	6.7	48.8	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.8	-56.6	2.1	-10.8	-0.7	-0.84	3.3	1.8	0.0	6.7	49.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	2.3	-3.6	-1.5	-1.02	0.0	0.6	0.0	6.7	47.2	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.3	-57.0	2.2	-17.2	-0.5	-0.72	-7.8	9.8	0.0	6.7	42.0	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.1	-56.7	2.0	-11.0	-0.9	-0.41	1.2	0.0	0.0	6.7	51.5	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	2.2	-11.4	-0.7	-0.77	0.9	0.5	0.0	6.7	44.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	2.1	-15.0	-0.5	-0.04	-6.9	0.2	0.0	6.7	29.8	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	209.5	-57.4	2.7	-0.3	-2.3		0.0	0.0	-3.0	9.2	61.9	
Construciton Control Room Max Day	CNEL	123.7	5461	209.5	-57.4	2.7	-0.3	-2.3		0.0	0.0	-3.0	0.0	63.4	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	499.5	-65.0	4.1	-13.1	-2.1		0.0	0.2	-3.0	0.0	44.9	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	558.5	-65.9	4.4	-9.2	-2.5		0.0	0.4	-3.0	0.0	47.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	171.1	-55.7	2.6	-2.9	-1.9		0.0	0.1	-3.0	0.0	63.0	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	171.1	-55.7	2.6	-2.9	-1.9		0.0	0.1	-3.0	9.2	61.4	
Construction PreTreat Building Max Day	CNEL	123.7	6360	306.7	-60.7	3.4	-1.8	-3.4		0.0	0.2	-3.0	0.0	58.3	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	306.7	-60.7	3.4	-1.8	-3.4		0.0	0.2	-3.0	9.2	56.8	
Construction Unit A Construction Max Day	CNEL	123.7	3185	251.8	-59.0	2.7	-6.3	-2.2	-0.31	0.0	0.5	-3.0	0.0	56.1	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	150.2	-54.5	2.3	-0.4	-1.7		0.0	0.2	-3.0	9.2	65.0	
Construction Unit B Max Day	CNEL	123.7	20817	150.2	-54.5	2.3	-0.4	-1.7		0.0	0.2	-3.0	0.0	66.5	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.7	-55.7	2.5	-9.5	-0.5		2.3	0.0	0.0	6.7	43.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.1	-55.8	2.4	-12.7	-0.5		-2.8	0.0	0.0	6.7	35.1	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.4	-55.7	2.4	-5.5	-0.9		-1.4	0.2	0.0	6.7	46.4	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.1	-55.7	2.4	-15.6	-0.4		-0.6	0.0	0.0	6.7	37.5	
Cooling Tower M 512	CNEL	95.7		166.9	-55.4	2.6	-15.4	-0.6		0.0	1.1	0.0	6.7	34.6	
Cooling Tower M 513	CNEL	95.7		167.0	-55.4	2.6	-14.1	-0.6		0.0	0.8	0.0	6.7	35.6	
Cooling Tower M 514	CNEL	95.7		166.6	-55.4	2.6	-15.0	-0.6		0.0	1.0	0.0	6.7	34.9	
Heater # 5-Heater	CNEL	91.1	13	211.5	-57.5	2.3	-8.7	-0.5		0.0	0.0	0.0	6.7	36.4	
Heater # 5-Heater	CNEL	91.1	13	206.6	-57.3	2.3	-7.4	-0.6		0.0	0.0	0.0	6.7	37.8	
Heater # 5-Heater	CNEL	91.1	13	201.5	-57.1	2.1	-5.1	-0.8		0.0	0.0	0.0	6.7	39.9	
Hydro Heater H-402	CNEL	98.1		172.1	-55.7	2.4	-5.4	-0.5		0.0	0.7	0.0	6.7	46.3	
Motor & Pump P 56A/B	CNEL	93.7		189.6	-56.5	2.5	-3.8	-1.3	-0.48	0.0	0.0	0.0	6.7	40.7	
Motor & Pump P 120/121	CNEL	96.2	2	236.4	-58.5	3.1	-18.6	-0.7	-0.82	0.0	0.0	0.0	6.7	27.3	
Motor & Pump P 211/212	CNEL	93.7		173.0	-55.8	2.4	-6.8	-1.1	-0.66	0.0	0.0	0.0	6.7	38.4	
Motor & Pump P 215/214	CNEL	94.6		177.8	-56.0	2.4	-8.2	-1.0	-0.78	0.0	0.0	0.0	6.7	37.7	
Motor & Pump P 216	CNEL	98.3		176.3	-55.9	2.4	-4.9	-1.4	-0.68	0.0	0.9	0.0	6.7	45.3	
Motor & Pump P 217/218	CNEL	93.7		174.9	-55.8	2.5	-7.7	-1.1	-0.71	0.0	0.0	0.0	6.7	37.5	
Motor & Pump P 300	CNEL	97.1	2	242.2	-58.7	3.1	-17.0	-0.8	-1.05	0.0	0.7	0.0	6.7	30.0	
Motor & Pump P 301	CNEL	102.1	2	240.5	-58.6	3.1	-16.9	-0.8	-1.07	0.0	0.2	0.0	6.7	34.7	
Motor & Pump P 302	CNEL	97.1	2	243.9	-58.7	3.2	-17.0	-0.8	-1.02	0.0	1.8	0.0	6.7	31.2	
Motor & Pump P 303	CNEL	97.1	2	245.3	-58.8	3.1	-16.8	-0.8	-1.00	0.0	2.2	0.0	6.7	31.8	
Motor & Pump P 305	CNEL	97.5	2	246.7	-58.8	3.1	-16.6	-0.8	-0.98	0.0	2.7	0.0	6.7	32.8	
Motor & Pump P 306	CNEL	112.6	4	255.3	-59.1	3.1	-13.4	-0.7	-0.90	0.0	0.6	0.0	6.7	48.9	
Motor & Pump P 307	CNEL	102.1	2	235.9	-58.4	3.1	-12.8	-0.8	-1.15	0.0	0.0	0.0	6.7	38.7	
Motor & Pump P 309	CNEL	97.5	2	248.1	-58.9	3.2	-16.5	-0.8	-0.96	0.0	3.1	0.0	6.7	33.3	
Motor & Pump P 312	CNEL	101.5	2	215.3	-57.7	3.0	-2.5	-1.0	-1.25	0.0	0.4	0.0	6.7	49.1	
Motor & Pump P 313	CNEL	101.5	2	213.6	-57.6	2.9	-2.9	-1.0	-1.25	0.0	0.5	0.0	6.7	48.9	
Motor & Pump P 315	CNEL	102.9	2	207.7	-57.3	2.7	-3.7	-1.0	-1.26	0.0	1.0	0.0	6.7	50.0	
Motor & Pump P 316	CNEL	102.9	2	205.9	-57.3	2.7	-3.9	-1.0	-1.26	0.0	1.4	0.0	6.7	50.3	
Motor & Pump P 317	CNEL	102.9	2	204.0	-57.2	2.6	-4.0	-1.0	-1.26	0.0	1.7	0.0	6.7	50.4	
Motor & Pump P 318	CNEL	100.2	1	209.4	-57.4	3.0	-3.5	-0.9	-1.25	0.0	0.6	0.0	6.7	47.3	
Motor & Pump P 319	CNEL	100.2	1	210.7	-57.5	3.0	-3.3	-1.0	-1.25	0.0	0.5	0.0	6.7	47.4	
Motor & Pump P 327	CNEL	111.2	3	263.1	-59.4	3.3	-21.4	-1.5	-0.12	0.0	4.6	0.0	6.7	43.4	
Motor & Pump P 328	CNEL	109.9	5	249.8	-58.9	3.0	-15.2	-0.8	-0.92	0.0	0.9	0.0	6.7	44.7	
Motor & Pump P 329	CNEL	110.2	5	252.5	-59.0	3.1	-15.1	-0.8	-0.86	0.0	0.9	0.0	6.7	45.0	
Motor & Pump P 451	CNEL	93.7		165.1	-55.3	2.5	-9.6	-0.9		0.0	0.0	0.0	6.7	36.9	
Motor & Pump P 453	CNEL	93.7		153.1	-54.7	2.5	-5.7	-1.0		0.0	0.0	0.0	6.7	41.5	
Motor & Pump P 454	CNEL	93.7		166.0	-55.4	2.5	-12.4	-0.8		0.0	5.7	0.0	6.7	39.9	
Motor & Pump P 457	CNEL	93.7		151.7	-54.6	2.5	-6.4	-0.9		0.0	0.0	0.0	6.7	40.9	
Motor & Pump P 458	CNEL	93.7		164.8	-55.3	2.5	-6.7	-1.1		0.0	0.0	0.0	6.7	39.7	
Motor & Pump P 459	CNEL	93.7		166.9	-55.4	2.5	-11.4	-0.8		0.0	5.0	0.0	6.7	40.2	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.2	-56.6	2.6	-12.8	-0.9		0.0	0.0	0.0	6.7	35.1	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.8	-56.7	2.6	-10.4	-1.0		0.0	0.0	0.0	6.7	37.4	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.8	-58.0	3.0	-17.5	-1.0	-0.85	0.0	0.0	0.0	6.7	27.8	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		225.0	-58.0	3.0	-17.3	-1.0	-0.87	0.0	0.0	0.0	6.7	27.9	
Motor & Pump P 1601 A	CNEL	96.3	2	188.2	-56.5	2.6	-20.3	-1.0		0.0	0.0	0.0	6.7	27.8	
Motor & Pump P 1601 B	CNEL	96.3	2	188.2	-56.5	2.6	-20.6	-1.0		0.0	0.2	0.0	6.7	27.6	
Motor & Pump P 1602 A	CNEL	96.3	2	188.0	-56.5	2.6	-20.8	-1.0		0.0	0.2	0.0	6.7	27.5	
Motor & Pump P 1602 B	CNEL	96.5	2	188.0	-56.5	2.6	-20.8	-1.0		0.0	2.4	0.0	6.7	29.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.5	-56.5	2.6	-18.4	-0.9	-0.08	0.0	0.0	0.0	6.7	30.0	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.3	-56.8	2.6	-17.1	-0.9	-0.19	0.0	0.0	0.0	6.7	30.9	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.7	-56.9	2.7	-16.6	-0.9	-0.24	0.0	0.0	0.0	6.7	31.3	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.2	-56.7	2.6	-11.9	-0.8		0.0	0.0	0.0	6.7	36.5	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	195.0	-56.8	2.6	-12.1	-0.8		0.0	0.0	0.0	6.7	36.3	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.2	-57.1	2.8	-12.0	-0.9	-0.29	0.0	0.0	0.0	6.7	35.4	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.4	-57.1	2.8	-17.8	-0.8	-0.35	0.0	0.0	0.0	6.7	29.7	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.7	-57.1	2.7	-15.6	-0.9	-0.35	0.0	0.0	0.0	6.7	31.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.5	-57.1	2.8	-17.7	-0.9	-0.35	0.0	0.0	0.0	6.7	29.7	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.5	-49.9	0.6	-0.3	-0.3		0.0	0.3	-38.6	0.0	46.5	
Tank Farm Pump 1	CNEL	99.0	3	294.4	-60.4	3.7	-4.0	-2.3		0.0	0.0	0.0	6.7	42.7	
Tank Farm Pump 2	CNEL	99.0	3	312.7	-60.9	3.8	-4.2	-2.4		0.0	0.0	0.0	6.7	42.0	
Tank Farm Pump 3	CNEL	99.0	3	317.8	-61.0	3.9	-4.3	-2.4		0.0	0.0	0.0	6.7	41.8	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	131.8	-53.4	1.2	-0.1	-1.8		0.0	0.2	-16.8	0.0	41.7	
XF-1502 Splitter Area 1	CNEL	104.5		198.0	-56.9	2.3	-4.6	-1.4	-0.01	-4.3	0.0	0.0	6.7	46.2	
XF-1502 Splitter Area 2	CNEL	104.5		194.3	-56.8	2.2	-4.5	-1.4		-4.3	0.0	0.0	6.7	46.4	
XF-1504 Splitter Area 1	CNEL	104.5		197.6	-56.9	2.3	-3.6	-1.2	-0.03	-4.1	0.0	0.0	6.7	47.6	
XF-1504 Splitter Area 2	CNEL	104.5		193.9	-56.7	2.3	-3.5	-1.2		-4.1	0.0	0.0	6.7	47.9	
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	2.0	-0.9	-0.9	-0.20	-3.1	0.3	0.0	6.7	55.6	
XF 313, XF 314	CNEL	113.0	18	270.4	-59.6	2.2	-3.2	-0.9	-0.88	-3.6	0.1	0.0	6.7	53.7	
XF 335-1, XF 335-2	CNEL	113.4	54	253.0	-59.1	2.1	-4.4	-1.1	-0.02	-3.0	0.9	0.0	6.7	55.5	
XF 503	CNEL	113.0	21	187.6	-56.5	2.0	-0.1	-2.6	-1.11	-4.1	0.0	0.0	6.7	57.4	
XF - 1601	CNEL	96.6		187.1	-56.4	2.2	-1.3	-0.8		-3.4	0.0	0.0	6.7	43.5	
XF - 1602	CNEL	96.6		187.2	-56.4	2.2	-1.2	-0.8		-3.4	0.0	0.0	6.7	43.7	
XF Module 1510	CNEL	108.3		191.2	-56.6	2.2	-4.1	-1.2	-0.10	-4.0	0.0	0.0	6.7	51.2	
XF Module 1519	CNEL	109.0		196.5	-56.9	2.2	-3.9	-1.3	-0.21	-4.0	0.0	0.0	6.7	51.6	
Lakewood NB	CNEL		606								2.2			29.9	
Lakewood SB	CNEL		606								2.0			29.9	
Somerset Ave EB	CNEL		917								1.6			40.9	
Somerset Ave WB	CNEL		917								1.0			40.2	
Downey Ave NB	CNEL		608								0.8			34.3	
Downey Ave SB	CNEL		608								0.8			34.1	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.6			47.7	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.0			33.8	
Receiver SS-4 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.5 dB(A) Ld 7-19 dB(A) Leq,N 64.2 dB(A) Le 19-22 dB(A) CNEL 73.4 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	80.1	-49.1	1.3	-0.1	-1.7		0.0	0.1	-10.8	0.0	48.7	
Air Compressor C 1	CNEL	110.0	5	248.9	-58.9	2.7	-5.5	-0.9	-0.64	0.0	1.9	0.0	6.7	55.3	
Air Compressor Pump	CNEL	100.3		112.4	-52.0	2.5	-18.5	-1.5		0.0	9.6	0.0	6.7	47.1	
Blower F 401	CNEL	113.0		139.8	-53.9	2.3	-12.6	-0.2		0.0	0.0	0.0	6.7	55.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.8	-57.4	2.4	0.0	-0.9		0.0	0.0	0.0	6.7	49.3	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.8	-56.6	2.3	-10.3	-0.7	-0.83	3.3	2.4	0.0	6.7	51.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	2.4	-2.7	-1.6	-1.01	0.0	0.7	0.0	6.7	48.3	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.4	-57.0	2.4	-15.3	-0.5	-0.69	-7.8	9.6	0.0	6.7	43.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.2	-56.7	2.2	-11.0	-0.9	-0.41	1.2	0.0	0.0	6.7	51.8	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	2.4	-10.3	-0.6	-0.69	0.9	0.4	0.0	6.7	45.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	2.3	-13.7	-0.6	-0.04	-6.9	0.1	0.0	6.7	31.1	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	209.6	-57.4	2.7	-0.3	-2.3		0.0	0.0	-3.0	9.2	61.9	
Construciton Control Room Max Day	CNEL	123.7	5461	209.6	-57.4	2.7	-0.3	-2.3		0.0	0.0	-3.0	0.0	63.4	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	499.5	-65.0	3.8	-12.3	-2.2		0.0	0.2	-3.0	0.0	45.3	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	558.5	-65.9	4.1	-8.3	-2.6		0.0	0.4	-3.0	0.0	48.3	
Construction H2 Plant Max Day	CNEL	123.7	9281	171.2	-55.7	2.7	-2.6	-2.0		0.0	0.1	-3.0	0.0	63.2	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	171.2	-55.7	2.7	-2.6	-2.0		0.0	0.1	-3.0	9.2	61.7	
Construction PreTreat Building Max Day	CNEL	123.7	6360	306.8	-60.7	2.9	-1.5	-3.2		0.0	0.2	-3.0	0.0	58.3	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	306.8	-60.7	2.9	-1.5	-3.2		0.0	0.2	-3.0	9.2	56.8	
Construction Unit A Construction Max Day	CNEL	123.7	3185	251.9	-59.0	2.5	-5.0	-2.3	-0.37	0.0	0.5	-3.0	0.0	57.0	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	150.4	-54.5	2.3	-0.4	-1.7		0.0	0.2	-3.0	9.2	65.0	
Construction Unit B Max Day	CNEL	123.7	20817	150.4	-54.5	2.3	-0.4	-1.7		0.0	0.2	-3.0	0.0	66.5	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.8	-55.7	2.6	-8.6	-0.5		2.3	0.0	0.0	6.7	44.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.1	-55.8	2.5	-11.4	-0.5		-2.8	0.0	0.0	6.7	36.5	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.5	-55.7	2.5	-5.4	-0.9		-1.4	0.0	0.0	6.7	46.4	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.2	-55.7	2.5	-15.3	-0.4		-0.6	0.0	0.0	6.7	37.9	
Cooling Tower M 512	CNEL	95.7		167.0	-55.4	2.6	-12.5	-0.6		0.0	1.5	0.0	6.7	37.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower M 513	CNEL	95.7		167.1	-55.5	2.6	-12.7	-0.6		0.0	1.6	0.0	6.7	37.8	
Cooling Tower M 514	CNEL	95.7		166.7	-55.4	2.6	-9.9	-0.7		0.0	0.9	0.0	6.7	39.9	
Heater # 5-Heater	CNEL	91.1	13	211.6	-57.5	2.4	-8.6	-0.5		0.0	0.0	0.0	6.7	36.6	
Heater # 5-Heater	CNEL	91.1	13	206.7	-57.3	2.4	-7.4	-0.5		0.0	0.0	0.0	6.7	38.0	
Heater # 5-Heater	CNEL	91.1	13	201.6	-57.1	2.4	-5.1	-0.8		0.0	0.0	0.0	6.7	40.2	
Hydro Heater H-402	CNEL	98.1		172.2	-55.7	2.6	-5.3	-0.5		0.0	0.7	0.0	6.7	46.5	
Motor & Pump P 56A/B	CNEL	93.7		189.7	-56.6	2.6	-3.1	-1.5	-0.48	0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 120/121	CNEL	96.2	2	236.4	-58.5	2.7	-16.7	-0.9	-0.81	0.0	0.0	0.0	6.7	28.7	
Motor & Pump P 211/212	CNEL	93.7		173.1	-55.8	2.5	-5.7	-1.3	-0.65	0.0	0.0	0.0	6.7	39.4	
Motor & Pump P 215/214	CNEL	94.6		177.9	-56.0	2.5	-7.4	-1.1	-0.78	0.0	0.0	0.0	6.7	38.6	
Motor & Pump P 216	CNEL	98.3		176.4	-55.9	2.4	-4.8	-1.4	-0.68	0.0	1.1	0.0	6.7	45.8	
Motor & Pump P 217/218	CNEL	93.7		175.0	-55.9	2.5	-6.5	-1.2	-0.70	0.0	0.0	0.0	6.7	38.6	
Motor & Pump P 300	CNEL	97.1	2	242.2	-58.7	2.7	-16.9	-0.8	-1.05	0.0	0.2	0.0	6.7	29.2	
Motor & Pump P 301	CNEL	102.1	2	240.6	-58.6	2.7	-16.9	-0.8	-1.07	0.0	0.1	0.0	6.7	34.2	
Motor & Pump P 302	CNEL	97.1	2	243.9	-58.7	2.7	-16.9	-0.8	-1.02	0.0	2.1	0.0	6.7	31.2	
Motor & Pump P 303	CNEL	97.1	2	245.4	-58.8	2.7	-16.6	-0.8	-1.00	0.0	3.1	0.0	6.7	32.3	
Motor & Pump P 305	CNEL	97.5	2	246.8	-58.8	2.7	-16.4	-0.8	-0.98	0.0	3.2	0.0	6.7	33.1	
Motor & Pump P 306	CNEL	112.6	4	255.4	-59.1	2.7	-12.4	-0.7	-0.91	0.0	0.5	0.0	6.7	49.3	
Motor & Pump P 307	CNEL	102.1	2	236.0	-58.5	2.7	-12.4	-0.8	-1.15	0.0	0.0	0.0	6.7	38.7	
Motor & Pump P 309	CNEL	97.5	2	248.2	-58.9	2.7	-15.7	-0.8	-0.95	0.0	2.7	0.0	6.7	33.2	
Motor & Pump P 312	CNEL	101.5	2	215.4	-57.7	2.6	-2.5	-1.0	-1.25	0.0	0.8	0.0	6.7	49.2	
Motor & Pump P 313	CNEL	101.5	2	213.7	-57.6	2.6	-2.8	-1.0	-1.25	0.0	0.8	0.0	6.7	49.0	
Motor & Pump P 315	CNEL	102.9	2	207.8	-57.3	2.6	-3.6	-1.0	-1.25	0.0	1.1	0.0	6.7	50.1	
Motor & Pump P 316	CNEL	102.9	2	205.9	-57.3	2.6	-3.8	-1.0	-1.26	0.0	1.3	0.0	6.7	50.2	
Motor & Pump P 317	CNEL	102.9	2	204.1	-57.2	2.6	-3.9	-1.0	-1.26	0.0	1.5	0.0	6.7	50.3	
Motor & Pump P 318	CNEL	100.2	1	209.5	-57.4	2.6	-3.3	-1.0	-1.25	0.0	0.8	0.0	6.7	47.4	
Motor & Pump P 319	CNEL	100.2	1	210.8	-57.5	2.6	-3.1	-1.0	-1.25	0.0	0.8	0.0	6.7	47.5	
Motor & Pump P 327	CNEL	111.2	3	263.2	-59.4	2.7	-21.4	-1.5	-0.13	0.0	4.9	0.0	6.7	43.1	
Motor & Pump P 328	CNEL	109.9	5	249.8	-58.9	2.7	-14.2	-0.8	-0.91	0.0	0.7	0.0	6.7	45.3	
Motor & Pump P 329	CNEL	110.2	5	252.6	-59.0	2.7	-13.9	-0.8	-0.86	0.0	1.0	0.0	6.7	45.8	
Motor & Pump P 451	CNEL	93.7		165.2	-55.4	2.5	-9.4	-1.0		0.0	0.0	0.0	6.7	37.1	
Motor & Pump P 453	CNEL	93.7		153.3	-54.7	2.5	-5.2	-1.0		0.0	0.0	0.0	6.7	42.0	
Motor & Pump P 454	CNEL	93.7		166.1	-55.4	2.5	-12.0	-0.8		0.0	5.3	0.0	6.7	40.0	
Motor & Pump P 457	CNEL	93.7		151.8	-54.6	2.5	-5.9	-0.9		0.0	0.0	0.0	6.7	41.4	
Motor & Pump P 458	CNEL	93.7		164.9	-55.3	2.5	-6.7	-1.1		0.0	0.0	0.0	6.7	39.7	
Motor & Pump P 459	CNEL	93.7		167.0	-55.4	2.5	-11.0	-0.8		0.0	4.7	0.0	6.7	40.3	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.3	-56.6	2.6	-9.7	-0.9		0.0	0.0	0.0	6.7	38.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.9	-56.7	2.6	-6.5	-1.1		0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.9	-58.0	2.7	-17.0	-0.9	-0.85	0.0	0.0	0.0	6.7	28.1	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		225.1	-58.0	2.7	-16.7	-0.9	-0.87	0.0	0.0	0.0	6.7	28.2	
Motor & Pump P 1601 A	CNEL	96.3	2	188.3	-56.5	2.7	-20.1	-1.0		0.0	0.0	0.0	6.7	28.1	
Motor & Pump P 1601 B	CNEL	96.3	2	188.3	-56.5	2.7	-20.4	-1.0		0.0	0.2	0.0	6.7	28.0	
Motor & Pump P 1602 A	CNEL	96.3	2	188.1	-56.5	2.7	-20.6	-1.0		0.0	0.2	0.0	6.7	27.9	
Motor & Pump P 1602 B	CNEL	96.5	2	188.1	-56.5	2.7	-20.6	-1.0		0.0	1.5	0.0	6.7	29.3	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.6	-56.5	2.7	-16.7	-0.9	-0.08	0.0	0.0	0.0	6.7	31.8	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.4	-56.8	2.7	-15.2	-0.9	-0.19	0.0	0.0	0.0	6.7	32.9	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.8	-56.9	2.7	-14.6	-0.9	-0.24	0.0	0.0	0.0	6.7	33.4	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.3	-56.7	2.6	-5.6	-1.3		0.0	0.0	0.0	6.7	42.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	195.1	-56.8	2.7	-5.7	-1.3		0.0	0.0	0.0	6.7	42.3	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.3	-57.1	2.7	-9.4	-1.0	-0.28	0.0	0.0	0.0	6.7	37.8	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.5	-57.1	2.7	-16.9	-0.9	-0.35	0.0	0.0	0.0	6.7	30.5	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.8	-57.1	2.7	-13.2	-0.9	-0.35	0.0	0.0	0.0	6.7	34.1	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.6	-57.1	2.7	-16.7	-0.9	-0.35	0.0	0.0	0.0	6.7	30.6	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	88.8	-50.0	0.7	-0.2	-0.3		0.0	0.3	-38.6	0.0	46.7	
Tank Farm Pump 1	CNEL	99.0	3	294.5	-60.4	3.0	-2.7	-2.7		0.0	0.0	0.0	6.7	42.9	
Tank Farm Pump 2	CNEL	99.0	3	312.8	-60.9	3.2	-3.2	-2.7		0.0	0.0	0.0	6.7	42.0	
Tank Farm Pump 3	CNEL	99.0	3	317.8	-61.0	3.2	-3.4	-2.7		0.0	0.0	0.0	6.7	41.8	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	132.2	-53.4	1.2	0.0	-1.8		0.0	0.2	-16.8	0.0	41.8	
XF-1502 Splitter Area 1	CNEL	104.5		198.0	-56.9	2.4	-1.9	-1.9	0.00	-4.4	0.0	0.0	6.7	48.4	
XF-1502 Splitter Area 2	CNEL	104.5		194.3	-56.8	2.3	-1.8	-1.8		-4.5	0.0	0.0	6.7	48.8	
XF-1504 Splitter Area 1	CNEL	104.5		197.6	-56.9	2.4	-3.5	-1.3	-0.02	-4.0	0.0	0.0	6.7	47.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF-1504 Splitter Area 2	CNEL	104.5		193.9	-56.7	2.3	-3.4	-1.2		-4.1	0.0	0.0	6.7	48.1	
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	2.3	-0.8	-0.9		-2.9	0.2	0.0	6.7	56.5	
XF 313, XF 314	CNEL	113.0	18	270.4	-59.6	2.5	-3.1	-0.9	-0.41	-3.5	0.0	0.0	6.7	54.5	
XF 335-1, XF 335-2	CNEL	113.4	54	253.0	-59.1	2.3	-4.1	-1.2	0.00	-2.9	1.0	0.0	6.7	56.2	
XF 503	CNEL	113.0	21	187.6	-56.5	2.1	0.0	-2.5	-1.11	-3.9	0.0	0.0	6.7	57.9	
XF - 1601	CNEL	96.6		187.0	-56.4	2.3	-0.5	-0.7		-3.1	0.0	0.0	6.7	44.9	
XF - 1602	CNEL	96.6		187.1	-56.4	2.4	-0.5	-0.7		-3.0	0.0	0.0	6.7	45.0	
XF Module 1510	CNEL	108.3		191.2	-56.6	2.3	-4.3	-1.5	-0.10	-4.3	0.0	0.0	6.7	50.5	
XF Module 1519	CNEL	109.0		196.5	-56.9	2.3	-4.4	-1.5	-0.21	-4.2	0.0	0.0	6.7	50.8	
Lakewood NB	CNEL		606								2.2			30.7	
Lakewood SB	CNEL		606								2.0			30.6	
Somerset Ave EB	CNEL		917								1.5			41.8	
Somerset Ave WB	CNEL		917								1.0			41.1	
Downey Ave NB	CNEL		608								0.8			35.8	
Downey Ave SB	CNEL		608								0.8			35.7	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.8			48.0	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.1			33.9	
Receiver SS-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.5 dB(A) Ld 7-19 dB(A) Leq,N 63.7 dB(A) Le 19-22 dB(A) CNEL 73.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	89.1	-50.0	1.2	-0.3	-1.9		0.0	0.3	-10.8	0.0	47.5	
Air Compressor C 1	CNEL	110.0	5	294.8	-60.4	3.1	-5.1	-1.2	-0.56	0.0	3.3	0.0	6.7	55.9	
Air Compressor Pump	CNEL	100.3		126.4	-53.0	2.2	-19.0	-1.8		0.0	5.9	0.0	6.7	41.3	
Blower F 401	CNEL	113.0		191.0	-56.6	0.7	-12.5	-0.3		0.0	6.2	0.0	6.7	57.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.5	-54.9	1.7	-4.8	-0.8		0.0	0.0	0.0	6.7	46.5	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.8	-58.7	1.8	-13.3	-1.0	-0.74	2.9	3.6	0.0	6.7	45.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	1.9	-4.0	-1.6	-1.14	0.0	0.4	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.6	-59.0	1.8	-17.7	-0.6	-0.88	-7.8	12.7	0.0	6.7	41.7	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.4	-58.8	1.7	-11.6	-1.2	-0.58	1.8	0.0	0.0	6.7	48.7	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.7	-58.7	1.8	-10.1	-0.9	-0.99	1.5	0.7	0.0	6.7	43.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.3	-59.1	1.9	-16.3	-0.6	-0.35	-7.4	0.1	0.0	6.7	25.3	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	197.0	-56.9	3.0	-0.2	-2.4		0.0	0.1	-3.0	9.2	62.8	
Construciton Control Room Max Day	CNEL	123.7	5461	197.0	-56.9	3.0	-0.2	-2.4		0.0	0.1	-3.0	0.0	64.3	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	456.1	-64.2	3.9	-16.3	-1.9		0.0	0.3	-3.0	0.0	42.5	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	533.3	-65.5	4.3	-6.4	-3.9		0.0	0.3	-3.0	0.0	49.5	
Construction H2 Plant Max Day	CNEL	123.7	9281	190.3	-56.6	2.8	-4.9	-2.0		0.0	0.0	-3.0	0.0	60.1	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	190.3	-56.6	2.8	-4.9	-2.0		0.0	0.0	-3.0	9.2	58.6	
Construction PreTreat Building Max Day	CNEL	123.7	6360	276.4	-59.8	3.6	-2.7	-3.2		0.0	0.1	-3.0	0.0	58.7	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	276.4	-59.8	3.6	-2.7	-3.2		0.0	0.1	-3.0	9.2	57.1	
Construction Unit A Construction Max Day	CNEL	123.7	3185	304.9	-60.7	3.0	-6.8	-2.4	-0.61	0.0	0.4	-3.0	0.0	53.5	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	130.6	-53.3	2.1	-0.6	-1.7		0.0	0.3	-3.0	9.2	65.9	
Construction Unit B Max Day	CNEL	123.7	20817	130.6	-53.3	2.1	-0.6	-1.7		0.0	0.3	-3.0	0.0	67.4	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.4	-13.6	-0.5		4.3	0.0	0.0	6.7	39.6	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.6	-57.7	2.2	-19.0	-0.7		-5.4	0.0	0.0	6.7	24.0	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.5	-57.2	2.0	-0.5	-1.6		4.7	0.0	0.0	6.7	54.6	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.6	-57.4	2.1	-20.2	-0.7		-4.4	0.0	0.0	6.7	26.7	
Cooling Tower M 512	CNEL	95.7		208.5	-57.4	3.1	-15.8	-0.7		0.0	0.8	0.0	6.7	32.4	
Cooling Tower M 513	CNEL	95.7		208.8	-57.4	3.0	-14.5	-0.7		0.0	0.7	0.0	6.7	33.4	
Cooling Tower M 514	CNEL	95.7		207.9	-57.3	3.1	-16.7	-0.7		0.0	1.0	0.0	6.7	31.7	
Heater # 5-Heater	CNEL	91.1	13	160.9	-55.1	1.9	-0.4	-0.9		0.0	0.0	0.0	6.7	46.2	
Heater # 5-Heater	CNEL	91.1	13	156.0	-54.9	1.8	-0.6	-0.9		0.0	0.0	0.0	6.7	46.2	
Heater # 5-Heater	CNEL	91.1	13	150.9	-54.6	1.7	-0.6	-0.9		0.0	0.0	0.0	6.7	46.4	
Hydro Heater H-402	CNEL	98.1		218.8	-57.8	1.9	-3.2	-0.7		0.0	0.0	0.0	6.7	45.0	
Motor & Pump P 56A/B	CNEL	93.7		236.7	-58.5	3.1	-3.5	-1.7	-0.31	0.0	0.1	0.0	6.7	39.6	
Motor & Pump P 120/121	CNEL	96.2	2	282.8	-60.0	3.4	-19.2	-1.0	-0.41	0.0	0.0	0.0	6.7	25.7	
Motor & Pump P 211/212	CNEL	93.7		224.4	-58.0	2.9	-11.6	-1.1	-0.72	0.0	0.0	0.0	6.7	31.7	
Motor & Pump P 215/214	CNEL	94.6		228.9	-58.2	3.0	-6.1	-1.5	-0.83	0.0	0.0	0.0	6.7	37.7	
Motor & Pump P 216	CNEL	98.3		228.5	-58.2	2.7	-6.4	-1.5	-0.73	0.0	2.5	0.0	6.7	43.4	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 217/218	CNEL	93.7		226.2	-58.1	3.2	-11.7	-1.1	-0.77	0.0	0.0	0.0	6.7	31.8	
Motor & Pump P 300	CNEL	97.1	2	290.0	-60.2	3.4	-14.9	-1.0	-0.51	0.0	6.5	0.0	6.7	37.1	
Motor & Pump P 301	CNEL	102.1	2	288.4	-60.2	3.4	-14.7	-1.0	-0.51	0.0	7.9	0.0	6.7	43.7	
Motor & Pump P 302	CNEL	97.1	2	291.6	-60.3	3.4	-15.0	-0.9	-0.52	0.0	2.6	0.0	6.7	33.0	
Motor & Pump P 303	CNEL	97.1	2	293.0	-60.3	3.4	-14.9	-0.9	-0.52	0.0	1.1	0.0	6.7	31.6	
Motor & Pump P 305	CNEL	97.5	2	294.3	-60.4	3.4	-14.8	-0.9	-0.52	0.0	2.0	0.0	6.7	33.0	
Motor & Pump P 306	CNEL	112.6	4	302.5	-60.6	3.0	-16.8	-1.0	-0.34	0.0	2.9	0.0	6.7	46.5	
Motor & Pump P 307	CNEL	102.1	2	284.1	-60.1	3.4	-14.6	-1.0	-0.53	0.0	2.6	0.0	6.7	38.6	
Motor & Pump P 309	CNEL	97.5	2	295.6	-60.4	3.4	-14.7	-0.9	-0.52	0.0	1.8	0.0	6.7	32.8	
Motor & Pump P 312	CNEL	101.5	2	264.6	-59.4	3.3	-8.6	-0.9	-0.97	0.0	4.1	0.0	6.7	45.7	
Motor & Pump P 313	CNEL	101.5	2	263.0	-59.4	3.3	-7.1	-0.9	-1.00	0.0	3.2	0.0	6.7	46.2	
Motor & Pump P 315	CNEL	102.9	2	257.5	-59.2	3.2	-4.6	-1.0	-1.14	0.0	0.4	0.0	6.7	47.3	
Motor & Pump P 316	CNEL	102.9	2	255.8	-59.2	3.2	-4.5	-1.0	-1.18	0.0	1.0	0.0	6.7	47.9	
Motor & Pump P 317	CNEL	102.9	2	254.0	-59.1	3.1	-4.1	-1.0	-1.22	0.0	1.2	0.0	6.7	48.4	
Motor & Pump P 318	CNEL	100.2	1	259.0	-59.3	3.4	-4.7	-1.0	-1.08	0.0	0.1	0.0	6.7	44.3	
Motor & Pump P 319	CNEL	100.2	1	260.3	-59.3	3.4	-5.8	-1.0	-1.06	0.0	1.0	0.0	6.7	44.1	
Motor & Pump P 327	CNEL	111.2	3	310.0	-60.8	3.6	-21.8	-1.7	-0.17	0.0	5.5	0.0	6.7	42.4	
Motor & Pump P 328	CNEL	109.9	5	297.2	-60.5	3.3	-15.3	-1.0	-0.34	0.0	1.8	0.0	6.7	44.6	
Motor & Pump P 329	CNEL	110.2	5	299.8	-60.5	3.4	-16.6	-1.1	-0.27	0.0	3.0	0.0	6.7	44.7	
Motor & Pump P 451	CNEL	93.7		212.1	-57.5	2.9	-9.2	-1.2		0.0	0.0	0.0	6.7	35.3	
Motor & Pump P 453	CNEL	93.7		200.4	-57.0	2.8	-0.2	-2.0		0.0	0.0	0.0	6.7	43.9	
Motor & Pump P 454	CNEL	93.7		213.2	-57.6	2.9	-11.2	-1.0		0.0	0.0	0.0	6.7	33.5	
Motor & Pump P 457	CNEL	93.7		199.1	-57.0	2.7	-0.2	-2.0		0.0	0.0	0.0	6.7	43.9	
Motor & Pump P 458	CNEL	93.7		211.6	-57.5	2.9	-4.7	-1.3		0.0	0.0	0.0	6.7	39.7	
Motor & Pump P 459	CNEL	93.7		214.1	-57.6	2.9	-10.7	-1.0		0.0	0.0	0.0	6.7	33.9	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		232.9	-58.3	3.3	-21.1	-1.4		0.0	0.0	0.0	6.7	25.3	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.5	-58.4	3.3	-17.0	-1.2		0.0	0.0	0.0	6.7	29.6	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.5	-59.4	3.6	-16.5	-1.2	-0.63	0.0	8.3	0.0	6.7	36.3	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.6	-59.4	3.6	-19.9	-1.4	-0.25	0.0	11.3	0.0	6.7	36.0	
Motor & Pump P 1601 A	CNEL	96.3	2	225.2	-58.0	3.1	-19.0	-1.1		0.0	0.0	0.0	6.7	28.0	
Motor & Pump P 1601 B	CNEL	96.3	2	224.9	-58.0	3.1	-18.9	-1.1		0.0	0.0	0.0	6.7	28.1	
Motor & Pump P 1602 A	CNEL	96.3	2	224.4	-58.0	3.1	-18.7	-1.1		0.0	0.0	0.0	6.7	28.3	
Motor & Pump P 1602 B	CNEL	96.5	2	224.1	-58.0	3.1	-18.1	-1.1		0.0	0.0	0.0	6.7	29.1	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.4	-58.2	3.4	-19.5	-1.2	-0.08	0.0	0.0	0.0	6.7	27.7	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.1	-58.4	3.4	-17.7	-1.1	-0.19	0.0	0.0	0.0	6.7	29.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.4	-58.5	3.5	-16.9	-1.0	-0.25	0.0	0.0	0.0	6.7	30.1	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.7	-58.4	3.3	-17.1	-1.1		0.0	0.0	0.0	6.7	30.0	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.4	-58.5	3.4	-16.8	-1.1	0.00	0.0	0.0	0.0	6.7	30.2	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.4	-58.6	3.5	-18.8	-1.1	-0.08	0.0	0.0	0.0	6.7	27.9	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.0	-58.6	3.5	-14.2	-1.1	-0.26	0.0	0.0	0.0	6.7	32.3	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.1	-58.7	3.5	-16.7	-1.1	-0.21	0.0	0.0	0.0	6.7	29.7	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.6	-58.7	3.5	-14.1	-1.0	-0.36	0.0	0.0	0.0	6.7	32.4	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	92.9	-50.3	0.3	-1.1	-0.3		0.0	0.4	-38.6	0.0	45.1	
Tank Farm Pump 1	CNEL	99.0	3	274.9	-59.8	4.0	-3.9	-2.3		0.0	1.7	0.0	6.7	45.5	
Tank Farm Pump 2	CNEL	99.0	3	290.7	-60.3	4.1	-4.7	-2.2		0.0	0.0	0.0	6.7	42.7	
Tank Farm Pump 3	CNEL	99.0	3	295.1	-60.4	4.1	-4.7	-2.2		0.0	0.0	0.0	6.7	42.5	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	176.5	-55.9	1.2	-0.2	-2.3		0.0	0.4	-16.8	0.0	38.7	
XF-1502 Splitter Area 1	CNEL	104.5		238.3	-58.5	1.6	-15.2	-0.8	0.00	-3.1	0.0	0.0	6.7	35.1	
XF-1502 Splitter Area 2	CNEL	104.5		234.7	-58.4	1.6	-17.4	-0.9		-3.0	0.0	0.0	6.7	33.0	
XF-1504 Splitter Area 1	CNEL	104.5		237.1	-58.5	1.6	-4.0	-1.5	-0.03	-4.2	0.0	0.0	6.7	44.6	
XF-1504 Splitter Area 2	CNEL	104.5		233.5	-58.4	1.6	-4.4	-1.5		-4.2	0.0	0.0	6.7	44.4	
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	0.7	-1.2	-1.1	-0.24	-3.3	0.2	0.0	6.7	51.9	
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	1.5	-5.3	-1.1	-0.20	-3.7	0.3	0.0	6.7	50.1	
XF 335-1, XF 335-2	CNEL	113.4	54	301.2	-60.6	1.0	-3.4	-1.4	-0.01	-3.2	0.5	0.0	6.7	52.9	
XF 503	CNEL	113.0	21	236.9	-58.5	1.1	-2.2	-3.1	-0.86	-4.0	0.0	0.0	6.7	52.2	
XF - 1601	CNEL	96.6		223.8	-58.0	1.2	0.0	-0.8		-3.0	0.0	0.0	6.7	42.6	
XF - 1602	CNEL	96.6		222.6	-57.9	1.2	0.0	-0.8		-3.0	0.0	0.0	6.7	42.7	
XF Module 1510	CNEL	108.3		232.9	-58.3	1.5	-7.1	-1.2	-0.10	-3.9	0.0	0.0	6.7	45.9	
XF Module 1519	CNEL	109.0		238.0	-58.5	1.5	-7.0	-1.2	-0.21	-3.9	0.0	0.0	6.7	46.4	
Lakewood NB	CNEL		606								1.2			28.4	
Lakewood SB	CNEL		606								1.0			28.2	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Somerset Ave EB	CNEL		917								1.5			44.2	
Somerset Ave WB	CNEL		917								1.5			44.0	
Downey Ave NB	CNEL		608								1.4			31.1	
Downey Ave SB	CNEL		608								1.4			31.1	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.7			47.6	
Crude Operatoin Truck Truck Traffic	CNEL		520								0.9			31.0	
Receiver SS-5 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.8 dB(A) Ld 7-19 dB(A) Leq,N 64.3 dB(A) Le 19-22 dB(A) CNEL 73.6 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	89.2	-50.0	1.2	-0.2	-1.9		0.0	0.3	-10.8	0.0	47.6	
Air Compressor C 1	CNEL	110.0	5	294.8	-60.4	3.4	-4.5	-1.2	-0.57	0.0	3.3	0.0	6.7	56.8	
Air Compressor Pump	CNEL	100.3		126.5	-53.0	2.5	-18.8	-1.7		0.0	6.4	0.0	6.7	42.4	
Blower F 401	CNEL	113.0		191.0	-56.6	2.0	-12.5	-0.3		0.0	5.3	0.0	6.7	57.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.6	-54.9	2.3	-4.7	-0.7		0.0	0.0	0.0	6.7	47.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.8	-58.7	2.2	-12.9	-0.9	-0.75	2.9	3.6	0.0	6.7	46.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	2.4	-3.4	-1.8	-1.14	0.0	0.4	0.0	6.7	44.9	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.7	-59.0	2.3	-16.9	-0.5	-0.92	-7.8	12.0	0.0	6.7	42.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.4	-58.8	2.1	-11.2	-1.1	-0.60	1.8	0.0	0.0	6.7	49.6	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.7	-58.7	2.3	-9.4	-0.8	-1.01	1.5	0.6	0.0	6.7	44.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.4	-59.1	2.2	-15.7	-0.6	-0.36	-7.4	0.1	0.0	6.7	26.1	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	197.1	-56.9	2.7	0.0	-2.2		0.0	0.1	-3.0	9.2	62.7	
Construciton Control Room Max Day	CNEL	123.7	5461	197.1	-56.9	2.7	0.0	-2.2		0.0	0.1	-3.0	0.0	64.2	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	456.1	-64.2	4.0	-14.3	-1.9		0.0	0.3	-3.0	0.0	44.6	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	533.3	-65.5	4.4	-5.8	-3.5		0.0	0.3	-3.0	0.0	50.5	
Construction H2 Plant Max Day	CNEL	123.7	9281	190.4	-56.6	2.6	-3.9	-2.0		0.0	0.0	-3.0	0.0	60.9	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	190.4	-56.6	2.6	-3.9	-2.0		0.0	0.0	-3.0	9.2	59.4	
Construction PreTreat Building Max Day	CNEL	123.7	6360	276.4	-59.8	3.1	-2.3	-2.9		0.0	0.1	-3.0	0.0	58.9	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	276.4	-59.8	3.1	-2.3	-2.9		0.0	0.1	-3.0	9.2	57.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	305.0	-60.7	2.9	-6.2	-2.3	-0.68	0.0	0.4	-3.0	0.0	54.2	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	130.7	-53.3	2.3	-0.5	-1.6		0.0	0.3	-3.0	9.2	66.3	
Construction Unit B Max Day	CNEL	123.7	20817	130.7	-53.3	2.3	-0.5	-1.6		0.0	0.3	-3.0	0.0	67.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.5	-12.8	-0.4		4.3	0.0	0.0	6.7	40.6	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.6	-57.7	2.5	-18.4	-0.6		-5.4	0.0	0.0	6.7	24.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.5	-57.2	2.4	0.0	-1.4		4.7	0.0	0.0	6.7	55.7	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.6	-57.4	2.4	-19.6	-0.6		-4.4	0.0	0.0	6.7	27.7	
Cooling Tower M 512	CNEL	95.7		208.5	-57.4	2.5	-15.4	-0.7		0.0	0.9	0.0	6.7	32.3	
Cooling Tower M 513	CNEL	95.7		208.9	-57.4	2.5	-14.2	-0.7		0.0	0.7	0.0	6.7	33.3	
Cooling Tower M 514	CNEL	95.7		207.9	-57.3	2.5	-16.3	-0.7		0.0	1.1	0.0	6.7	31.6	
Heater # 5-Heater	CNEL	91.1	13	161.0	-55.1	2.4	0.0	-0.8		0.0	0.0	0.0	6.7	47.2	
Heater # 5-Heater	CNEL	91.1	13	156.0	-54.9	2.3	-0.1	-0.8		0.0	0.0	0.0	6.7	47.4	
Heater # 5-Heater	CNEL	91.1	13	150.9	-54.6	2.3	-0.1	-0.8		0.0	0.0	0.0	6.7	47.6	
Hydro Heater H-402	CNEL	98.1		218.9	-57.8	2.4	-2.2	-0.8		0.0	0.0	0.0	6.7	46.4	
Motor & Pump P 56A/B	CNEL	93.7		236.7	-58.5	2.8	-2.8	-1.8	-0.31	0.0	0.2	0.0	6.7	39.9	
Motor & Pump P 120/121	CNEL	96.2	2	282.9	-60.0	3.3	-18.8	-0.9	-0.42	0.0	0.0	0.0	6.7	26.0	
Motor & Pump P 211/212	CNEL	93.7		224.5	-58.0	2.6	-10.9	-1.1	-0.73	0.0	0.0	0.0	6.7	32.1	
Motor & Pump P 215/214	CNEL	94.6		229.0	-58.2	2.7	-5.2	-1.5	-0.84	0.0	0.0	0.0	6.7	38.2	
Motor & Pump P 216	CNEL	98.3		228.5	-58.2	2.5	-5.5	-1.6	-0.73	0.0	2.1	0.0	6.7	43.6	
Motor & Pump P 217/218	CNEL	93.7		226.2	-58.1	2.9	-11.1	-1.1	-0.78	0.0	0.0	0.0	6.7	32.1	
Motor & Pump P 300	CNEL	97.1	2	290.0	-60.2	3.4	-14.5	-0.9	-0.52	0.0	6.6	0.0	6.7	37.6	
Motor & Pump P 301	CNEL	102.1	2	288.5	-60.2	3.3	-14.3	-0.9	-0.52	0.0	7.7	0.0	6.7	43.8	
Motor & Pump P 302	CNEL	97.1	2	291.6	-60.3	3.4	-14.6	-0.9	-0.52	0.0	2.8	0.0	6.7	33.7	
Motor & Pump P 303	CNEL	97.1	2	293.0	-60.3	3.3	-14.4	-0.9	-0.53	0.0	1.2	0.0	6.7	32.2	
Motor & Pump P 305	CNEL	97.5	2	294.3	-60.4	3.4	-14.3	-0.9	-0.53	0.0	2.0	0.0	6.7	33.5	
Motor & Pump P 306	CNEL	112.6	4	302.5	-60.6	3.3	-15.9	-0.9	-0.36	0.0	2.3	0.0	6.7	47.2	
Motor & Pump P 307	CNEL	102.1	2	284.1	-60.1	3.3	-14.3	-0.9	-0.54	0.0	1.6	0.0	6.7	37.8	
Motor & Pump P 309	CNEL	97.5	2	295.7	-60.4	3.4	-14.1	-0.9	-0.53	0.0	1.7	0.0	6.7	33.3	
Motor & Pump P 312	CNEL	101.5	2	264.7	-59.4	3.2	-8.2	-0.9	-0.99	0.0	3.9	0.0	6.7	45.8	
Motor & Pump P 313	CNEL	101.5	2	263.1	-59.4	3.2	-6.7	-0.9	-1.02	0.0	3.0	0.0	6.7	46.4	

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)
Motor & Pump P 315	CNEL	102.9	2	257.6	-59.2	3.0	-3.3	-1.1	-1.14	0.0	0.4	0.0	6.7	48.3
Motor & Pump P 316	CNEL	102.9	2	255.8	-59.2	3.0	-3.2	-1.1	-1.18	0.0	1.0	0.0	6.7	49.0
Motor & Pump P 317	CNEL	102.9	2	254.1	-59.1	2.9	-3.0	-1.1	-1.22	0.0	1.1	0.0	6.7	49.2
Motor & Pump P 318	CNEL	100.2	1	259.1	-59.3	3.2	-3.3	-1.1	-1.08	0.0	0.1	0.0	6.7	45.5
Motor & Pump P 319	CNEL	100.2	1	260.4	-59.3	3.2	-4.7	-1.0	-1.06	0.0	1.0	0.0	6.7	45.0
Motor & Pump P 327	CNEL	111.2	3	310.0	-60.8	3.5	-21.7	-1.7	-0.18	0.0	5.7	0.0	6.7	42.7
Motor & Pump P 328	CNEL	109.9	5	297.2	-60.5	3.3	-14.7	-0.9	-0.36	0.0	1.7	0.0	6.7	45.1
Motor & Pump P 329	CNEL	110.2	5	299.8	-60.5	3.3	-16.0	-1.0	-0.29	0.0	2.6	0.0	6.7	45.0
Motor & Pump P 451	CNEL	93.7		212.2	-57.5	2.4	-9.0	-1.1		0.0	0.0	0.0	6.7	35.1
Motor & Pump P 453	CNEL	93.7		200.5	-57.0	2.4	0.0	-1.8		0.0	0.0	0.0	6.7	43.8
Motor & Pump P 454	CNEL	93.7		213.2	-57.6	2.4	-10.7	-0.9		0.0	0.0	0.0	6.7	33.6
Motor & Pump P 457	CNEL	93.7		199.1	-57.0	2.4	0.0	-1.8		0.0	0.0	0.0	6.7	43.9
Motor & Pump P 458	CNEL	93.7		211.7	-57.5	2.4	-3.2	-1.6		0.0	0.0	0.0	6.7	40.5
Motor & Pump P 459	CNEL	93.7		214.1	-57.6	2.5	-10.2	-1.0		0.0	0.0	0.0	6.7	34.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		233.0	-58.3	2.9	-20.9	-1.3		0.0	0.0	0.0	6.7	25.1
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.5	-58.4	2.9	-16.5	-1.1		0.0	0.0	0.0	6.7	29.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.6	-59.4	3.3	-15.3	-1.1	-0.64	0.0	7.4	0.0	6.7	36.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.7	-59.4	3.3	-19.7	-1.3	-0.25	0.0	11.0	0.0	6.7	35.7
Motor & Pump P 1601 A	CNEL	96.3	2	225.3	-58.0	2.6	-18.5	-1.0		0.0	0.0	0.0	6.7	28.0
Motor & Pump P 1601 B	CNEL	96.3	2	224.9	-58.0	2.6	-18.5	-1.0		0.0	0.0	0.0	6.7	28.1
Motor & Pump P 1602 A	CNEL	96.3	2	224.4	-58.0	2.6	-18.3	-1.0		0.0	0.0	0.0	6.7	28.2
Motor & Pump P 1602 B	CNEL	96.5	2	224.1	-58.0	2.6	-17.8	-1.0		0.0	0.0	0.0	6.7	29.0
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.5	-58.2	2.9	-18.9	-1.1	-0.08	0.0	0.0	0.0	6.7	27.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.1	-58.4	3.0	-17.1	-1.0	-0.20	0.0	0.0	0.0	6.7	29.6
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.4	-58.5	3.0	-16.2	-0.9	-0.25	0.0	0.0	0.0	6.7	30.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.7	-58.4	2.9	-16.6	-1.0		0.0	0.0	0.0	6.7	30.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.4	-58.5	2.9	-16.3	-1.0	0.00	0.0	0.0	0.0	6.7	30.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.4	-58.6	3.1	-18.1	-1.0	-0.08	0.0	0.0	0.0	6.7	28.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.0	-58.6	3.1	-13.5	-1.0	-0.26	0.0	0.0	0.0	6.7	32.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.1	-58.7	3.0	-16.4	-1.0	-0.21	0.0	0.0	0.0	6.7	29.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.6	-58.7	3.1	-13.4	-0.9	-0.37	0.0	0.0	0.0	6.7	32.7
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	93.1	-50.4	0.6	-0.4	-0.3		0.0	0.3	-38.6	0.0	45.9
Tank Farm Pump 1	CNEL	99.0	3	274.9	-59.8	3.5	-2.6	-2.6		0.0	1.5	0.0	6.7	45.8
Tank Farm Pump 2	CNEL	99.0	3	290.8	-60.3	3.6	-4.3	-2.3		0.0	0.0	0.0	6.7	42.5
Tank Farm Pump 3	CNEL	99.0	3	295.2	-60.4	3.7	-4.3	-2.3		0.0	0.0	0.0	6.7	42.4
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	176.6	-55.9	1.2	-0.1	-2.2		0.0	0.3	-16.8	0.0	38.9
XF-1502 Splitter Area 1	CNEL	104.5		238.3	-58.5	2.2	-14.9	-0.8	0.00	-2.8	0.0	0.0	6.7	36.3
XF-1502 Splitter Area 2	CNEL	104.5		234.7	-58.4	2.2	-17.2	-0.9		-2.8	0.0	0.0	6.7	34.1
XF-1504 Splitter Area 1	CNEL	104.5		237.0	-58.5	2.2	-3.8	-1.5	-0.03	-4.1	0.0	0.0	6.7	45.6
XF-1504 Splitter Area 2	CNEL	104.5		233.4	-58.4	2.2	-4.2	-1.5		-4.0	0.0	0.0	6.7	45.3
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	1.9	-1.1	-1.0		-2.9	0.2	0.0	6.7	54.0
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	2.4	-5.1	-1.1	-0.20	-3.5	0.2	0.0	6.7	51.4
XF 335-1, XF 335-2	CNEL	113.4	54	301.1	-60.6	2.0	-3.1	-1.4	0.00	-3.1	0.4	0.0	6.7	54.4
XF 503	CNEL	113.0	21	236.9	-58.5	1.9	-1.6	-2.7	-0.87	-3.9	0.0	0.0	6.7	54.1
XF - 1601	CNEL	96.6		223.7	-58.0	2.1	0.0	-0.7		-2.6	0.0	0.0	6.7	44.1
XF - 1602	CNEL	96.6		222.4	-57.9	2.2	0.0	-0.7		-2.6	0.0	0.0	6.7	44.2
XF Module 1510	CNEL	108.3		232.9	-58.3	2.1	-5.3	-1.4	-0.10	-4.0	0.0	0.0	6.7	48.0
XF Module 1519	CNEL	109.0		237.9	-58.5	2.2	-5.2	-1.4	-0.22	-4.0	0.0	0.0	6.7	48.5
Lakewood NB	CNEL		606								1.2			29.5
Lakewood SB	CNEL		606								1.0			29.3
Somerset Ave EB	CNEL		917								1.5			45.6
Somerset Ave WB	CNEL		917								1.8			45.5
Downey Ave NB	CNEL		608								1.2			32.2
Downey Ave SB	CNEL		608								1.3			32.1
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.7			47.7
Crude Operatoin Truck Truck Traffic	CNEL		520								0.9			30.9
Receiver SS-5 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 73.0 dB(A) Ld 7-19 dB(A) Leq,N 64.4 dB(A) Le 19-22 dB(A) CNEL 73.7 dB(A) Lmax day hr dB(A) Ld 7-1														
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	89.5	-50.0	1.3	-0.1	-1.8		0.0	0.2	-10.8	0.0	47.7
Air Compressor C 1	CNEL	110.0	5	294.9	-60.4	2.8	-3.5	-1.1	-0.57	0.0	2.9	0.0	6.7	56.9

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Air Compressor Pump	CNEL	100.3		126.6	-53.0	2.5	-18.8	-1.7		0.0	7.4	0.0	6.7	43.4	
Blower F 401	CNEL	113.0		191.1	-56.6	2.3	-12.3	-0.2		0.0	5.1	0.0	6.7	57.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.7	-54.9	2.4	-4.7	-0.7		0.0	0.0	0.0	6.7	47.3	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.9	-58.7	2.4	-11.9	-0.9	-0.63	2.9	3.2	0.0	6.7	47.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	2.5	-2.9	-1.9	-1.13	0.0	0.6	0.0	6.7	45.6	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.7	-59.0	2.4	-15.0	-0.6	-0.89	-7.8	11.9	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.5	-58.8	2.3	-11.0	-1.0	-0.59	1.8	0.0	0.0	6.7	50.1	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.8	-58.7	2.4	-8.9	-0.8	-1.00	1.5	0.6	0.0	6.7	45.6	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.4	-59.1	2.4	-14.2	-0.7	-0.36	-7.4	0.1	0.0	6.7	27.7	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	197.2	-56.9	2.7	0.0	-2.2		0.0	0.1	-3.0	9.2	62.8	
Construciton Control Room Max Day	CNEL	123.7	5461	197.2	-56.9	2.7	0.0	-2.2		0.0	0.1	-3.0	0.0	64.3	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	456.1	-64.2	3.7	-13.0	-2.3		0.0	0.3	-3.0	0.0	45.2	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	533.3	-65.5	4.0	-5.4	-3.4		0.0	0.3	-3.0	0.0	50.6	
Construction H2 Plant Max Day	CNEL	123.7	9281	190.5	-56.6	2.7	-3.7	-2.0		0.0	0.0	-3.0	0.0	61.1	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	190.5	-56.6	2.7	-3.7	-2.0		0.0	0.0	-3.0	9.2	59.6	
Construction PreTreat Building Max Day	CNEL	123.7	6360	276.5	-59.8	2.8	-2.0	-2.8		0.0	0.1	-3.0	0.0	59.0	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	276.5	-59.8	2.8	-2.0	-2.8		0.0	0.1	-3.0	9.2	57.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	305.0	-60.7	2.5	-5.1	-2.4	-0.73	0.0	0.3	-3.0	0.0	54.6	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	130.9	-53.3	2.3	-0.4	-1.6		0.0	0.3	-3.0	9.2	66.4	
Construction Unit B Max Day	CNEL	123.7	20817	130.9	-53.3	2.3	-0.4	-1.6		0.0	0.3	-3.0	0.0	67.9	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.6	-12.3	-0.4		4.3	0.0	0.0	6.7	41.2	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.7	-57.7	2.6	-18.2	-0.6		-5.4	0.0	0.0	6.7	25.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.6	-57.3	2.5	0.0	-1.3		4.7	0.0	0.0	6.7	55.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.7	-57.4	2.5	-19.3	-0.6		-4.4	0.0	0.0	6.7	28.1	
Cooling Tower M 512	CNEL	95.7		208.6	-57.4	2.6	-15.3	-0.7		0.0	1.0	0.0	6.7	32.6	
Cooling Tower M 513	CNEL	95.7		209.0	-57.4	2.6	-14.1	-0.7		0.0	0.8	0.0	6.7	33.6	
Cooling Tower M 514	CNEL	95.7		208.0	-57.4	2.6	-16.1	-0.7		0.0	1.2	0.0	6.7	32.0	
Heater # 5-Heater	CNEL	91.1	13	161.1	-55.1	2.4	0.0	-0.8		0.0	0.0	0.0	6.7	47.3	
Heater # 5-Heater	CNEL	91.1	13	156.1	-54.9	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	47.6	
Heater # 5-Heater	CNEL	91.1	13	151.0	-54.6	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	47.8	
Hydro Heater H-402	CNEL	98.1		219.0	-57.8	2.6	-2.1	-0.8		0.0	0.0	0.0	6.7	46.6	
Motor & Pump P 56A/B	CNEL	93.7		236.8	-58.5	2.6	-2.8	-1.8	-0.31	0.0	0.5	0.0	6.7	40.1	
Motor & Pump P 120/121	CNEL	96.2	2	282.9	-60.0	2.6	-15.5	-1.0	-0.39	0.0	0.0	0.0	6.7	28.6	
Motor & Pump P 211/212	CNEL	93.7		224.6	-58.0	2.5	-8.2	-1.2	-0.73	0.0	0.0	0.0	6.7	34.6	
Motor & Pump P 215/214	CNEL	94.6		229.0	-58.2	2.5	-4.5	-1.7	-0.83	0.0	0.0	0.0	6.7	38.6	
Motor & Pump P 216	CNEL	98.3		228.6	-58.2	2.4	-4.8	-1.7	-0.73	0.0	1.8	0.0	6.7	43.7	
Motor & Pump P 217/218	CNEL	93.7		226.3	-58.1	2.5	-8.8	-1.2	-0.78	0.0	0.0	0.0	6.7	34.0	
Motor & Pump P 300	CNEL	97.1	2	290.1	-60.2	2.7	-13.6	-0.9	-0.52	0.0	6.1	0.0	6.7	37.3	
Motor & Pump P 301	CNEL	102.1	2	288.5	-60.2	2.7	-14.0	-0.9	-0.52	0.0	7.5	0.0	6.7	43.3	
Motor & Pump P 302	CNEL	97.1	2	291.7	-60.3	2.7	-13.3	-0.9	-0.52	0.0	2.5	0.0	6.7	33.9	
Motor & Pump P 303	CNEL	97.1	2	293.1	-60.3	2.7	-13.0	-0.9	-0.52	0.0	1.1	0.0	6.7	32.9	
Motor & Pump P 305	CNEL	97.5	2	294.4	-60.4	2.7	-12.7	-0.9	-0.53	0.0	1.3	0.0	6.7	33.6	
Motor & Pump P 306	CNEL	112.6	4	302.6	-60.6	2.7	-15.6	-0.8	-0.37	0.0	0.7	0.0	6.7	45.2	
Motor & Pump P 307	CNEL	102.1	2	284.2	-60.1	2.6	-10.9	-1.0	-0.54	0.0	0.8	0.0	6.7	39.7	
Motor & Pump P 309	CNEL	97.5	2	295.7	-60.4	2.7	-12.4	-0.9	-0.53	0.0	0.7	0.0	6.7	33.4	
Motor & Pump P 312	CNEL	101.5	2	264.7	-59.4	2.6	-7.6	-0.9	-0.99	0.0	3.6	0.0	6.7	45.4	
Motor & Pump P 313	CNEL	101.5	2	263.2	-59.4	2.6	-5.9	-0.9	-1.02	0.0	2.6	0.0	6.7	46.1	
Motor & Pump P 315	CNEL	102.9	2	257.6	-59.2	2.6	-3.1	-1.1	-1.14	0.0	0.5	0.0	6.7	48.1	
Motor & Pump P 316	CNEL	102.9	2	255.9	-59.2	2.6	-3.0	-1.1	-1.18	0.0	1.1	0.0	6.7	48.7	
Motor & Pump P 317	CNEL	102.9	2	254.1	-59.1	2.6	-2.8	-1.1	-1.22	0.0	1.0	0.0	6.7	48.9	
Motor & Pump P 318	CNEL	100.2	1	259.1	-59.3	2.6	-3.0	-1.1	-1.08	0.0	0.1	0.0	6.7	45.1	
Motor & Pump P 319	CNEL	100.2	1	260.4	-59.3	2.6	-4.3	-1.1	-1.06	0.0	1.1	0.0	6.7	44.8	
Motor & Pump P 327	CNEL	111.2	3	310.1	-60.8	2.9	-21.6	-1.7	-0.19	0.0	5.7	0.0	6.7	42.2	
Motor & Pump P 328	CNEL	109.9	5	297.3	-60.5	2.6	-13.5	-0.9	-0.39	0.0	0.7	0.0	6.7	44.7	
Motor & Pump P 329	CNEL	110.2	5	299.9	-60.5	2.6	-15.3	-1.0	-0.31	0.0	0.5	0.0	6.7	42.9	
Motor & Pump P 451	CNEL	93.7		212.3	-57.5	2.5	-9.0	-1.1		0.0	0.0	0.0	6.7	35.2	
Motor & Pump P 453	CNEL	93.7		200.6	-57.0	2.5	0.0	-1.8		0.0	0.0	0.0	6.7	44.0	
Motor & Pump P 454	CNEL	93.7		213.3	-57.6	2.5	-8.8	-1.0		0.0	0.0	0.0	6.7	35.5	
Motor & Pump P 457	CNEL	93.7		199.2	-57.0	2.5	0.0	-1.8		0.0	0.0	0.0	6.7	44.0	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 458	CNEL	93.7		211.7	-57.5	2.5	-2.9	-1.6		0.0	0.0	0.0	6.7	40.8	
Motor & Pump P 459	CNEL	93.7		214.2	-57.6	2.5	-8.1	-1.1		0.0	0.0	0.0	6.7	36.1	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		233.0	-58.3	2.6	-20.9	-1.3		0.0	0.0	0.0	6.7	25.0	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.6	-58.4	2.6	-16.2	-1.0		0.0	0.0	0.0	6.7	29.9	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.6	-59.4	2.7	-14.2	-1.1	-0.64	0.0	6.7	0.0	6.7	36.1	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.7	-59.4	2.7	-19.6	-1.3	-0.25	0.0	11.2	0.0	6.7	35.4	
Motor & Pump P 1601 A	CNEL	96.3	2	225.3	-58.0	2.7	-16.2	-1.2		0.0	0.0	0.0	6.7	30.3	
Motor & Pump P 1601 B	CNEL	96.3	2	225.0	-58.0	2.7	-16.1	-1.2		0.0	0.0	0.0	6.7	30.3	
Motor & Pump P 1602 A	CNEL	96.3	2	224.5	-58.0	2.7	-16.0	-1.2		0.0	0.0	0.0	6.7	30.4	
Motor & Pump P 1602 B	CNEL	96.5	2	224.2	-58.0	2.7	-15.7	-1.2		0.0	0.0	0.0	6.7	31.0	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.5	-58.2	2.7	-18.6	-1.0	-0.08	0.0	0.0	0.0	6.7	28.0	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.2	-58.4	2.7	-16.7	-1.0	-0.20	0.0	0.0	0.0	6.7	29.7	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.5	-58.5	2.7	-15.8	-0.9	-0.25	0.0	0.0	0.0	6.7	30.4	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.8	-58.4	2.6	-16.2	-1.0		0.0	0.0	0.0	6.7	30.3	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.5	-58.5	2.6	-15.9	-1.0	0.00	0.0	0.0	0.0	6.7	30.6	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.5	-58.6	2.7	-17.6	-1.0	-0.08	0.0	0.0	0.0	6.7	28.4	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.1	-58.6	2.7	-13.0	-1.0	-0.26	0.0	0.0	0.0	6.7	32.7	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.2	-58.7	2.7	-16.4	-1.0	-0.21	0.0	0.0	0.0	6.7	29.4	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.7	-58.7	2.7	-12.9	-0.9	-0.37	0.0	0.0	0.0	6.7	32.8	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	93.4	-50.4	0.6	-0.3	-0.3		0.0	0.3	-38.6	0.0	46.0	
Tank Farm Pump 1	CNEL	99.0	3	275.0	-59.8	2.8	-1.3	-2.5		0.0	1.2	0.0	6.7	46.0	
Tank Farm Pump 2	CNEL	99.0	3	290.8	-60.3	2.9	-3.4	-2.5		0.0	0.0	0.0	6.7	42.4	
Tank Farm Pump 3	CNEL	99.0	3	295.2	-60.4	2.9	-3.5	-2.5		0.0	0.0	0.0	6.7	42.2	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	176.9	-55.9	1.3	-0.1	-2.1		0.0	0.3	-16.8	0.0	39.0	
XF-1502 Splitter Area 1	CNEL	104.5		238.2	-58.5	2.3	-14.9	-0.8	0.00	-2.7	0.0	0.0	6.7	36.6	
XF-1502 Splitter Area 2	CNEL	104.5		234.6	-58.4	2.3	-17.1	-0.9		-2.7	0.0	0.0	6.7	34.4	
XF-1504 Splitter Area 1	CNEL	104.5		237.0	-58.5	2.4	-3.7	-1.5	-0.02	-4.0	0.0	0.0	6.7	45.8	
XF-1504 Splitter Area 2	CNEL	104.5		233.4	-58.4	2.3	-4.2	-1.5		-4.0	0.0	0.0	6.7	45.5	
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	2.2	-1.0	-1.0		-2.8	0.3	0.0	6.7	54.6	
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	2.6	-4.9	-1.1	-0.18	-3.3	0.0	0.0	6.7	51.7	
XF 335-1, XF 335-2	CNEL	113.4	54	301.1	-60.6	2.3	-2.9	-1.3	0.00	-2.9	0.6	0.0	6.7	55.2	
XF 503	CNEL	113.0	21	236.9	-58.5	2.1	-1.0	-2.6	-0.89	-3.9	0.0	0.0	6.7	55.0	
XF - 1601	CNEL	96.6		223.6	-58.0	2.3	0.0	-0.7		-2.5	0.0	0.0	6.7	44.4	
XF - 1602	CNEL	96.6		222.4	-57.9	2.4	0.0	-0.7		-2.5	0.0	0.0	6.7	44.5	
XF Module 1510	CNEL	108.3		232.8	-58.3	2.3	-4.5	-1.5	-0.10	-4.0	0.0	0.0	6.7	48.8	
XF Module 1519	CNEL	109.0		237.9	-58.5	2.3	-4.5	-1.5	-0.22	-4.0	0.0	0.0	6.7	49.2	
Lakewood NB	CNEL		606								1.1			30.8	
Lakewood SB	CNEL		606								0.9			30.7	
Somerset Ave EB	CNEL		917								1.5			46.5	
Somerset Ave WB	CNEL		917								1.4			46.3	
Downey Ave NB	CNEL		608								1.0			33.6	
Downey Ave SB	CNEL		608								1.1			33.5	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.7			47.8	
Crude Operatoin Truck Truck Traffic	CNEL		520								1.0			31.0	
Receiver SS-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.6 dB(A) Ld 7-19 dB(A) Leq,N 63.5 dB(A) Le 19-22 dB(A) CNEL 73.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	97.8	-50.8	1.2	-0.4	-2.0		0.0	0.3	-10.8	0.0	46.6	
Air Compressor C 1	CNEL	110.0	5	314.8	-61.0	3.1	-7.2	-0.8	-0.51	0.0	2.4	0.0	6.7	52.7	
Air Compressor Pump	CNEL	100.3		139.4	-53.9	2.4	-18.9	-1.9		0.0	6.1	0.0	6.7	40.7	
Blower F 401	CNEL	113.0		213.0	-57.6	0.8	-12.5	-0.3		0.0	1.3	0.0	6.7	51.5	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.0	-53.9	1.7	-8.5	-0.5		0.0	0.0	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	1.9	-12.9	-1.0	-0.85	2.8	3.2	0.0	6.7	45.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.6	-59.5	2.0	-3.0	-1.8	-1.17	0.0	0.3	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	1.9	-17.4	-0.7	-0.95	-7.8	13.0	0.0	6.7	41.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	1.8	-11.7	-1.2	-0.63	2.0	0.1	0.0	6.7	48.1	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.6	-59.4	1.9	-9.7	-0.9	-1.03	1.7	0.9	0.0	6.7	43.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.0	-16.4	-0.7	-0.44	-7.5	0.2	0.0	6.7	24.3	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	197.3	-56.9	3.0	-0.2	-2.4		0.0	0.1	-3.0	9.2	62.8	
Construciton Control Room Max Day	CNEL	123.7	5461	197.3	-56.9	3.0	-0.2	-2.4		0.0	0.1	-3.0	0.0	64.3	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	440.2	-63.9	3.9	-14.9	-2.0		0.0	0.2	-3.0	0.0	44.1	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	525.2	-65.4	4.3	-6.2	-3.2		0.0	0.3	-3.0	0.0	50.6	
Construction H2 Plant Max Day	CNEL	123.7	9281	202.7	-57.1	2.9	-4.3	-2.1		0.0	0.0	-3.0	0.0	60.1	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	202.7	-57.1	2.9	-4.3	-2.1		0.0	0.0	-3.0	9.2	58.5	
Construction PreTreat Building Max Day	CNEL	123.7	6360	268.1	-59.6	3.5	-3.0	-3.1		0.0	0.2	-3.0	0.0	58.7	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	268.1	-59.6	3.5	-3.0	-3.1		0.0	0.2	-3.0	9.2	57.2	
Construction Unit A Construction Max Day	CNEL	123.7	3185	327.1	-61.3	3.0	-6.6	-2.5	-0.74	0.0	0.4	-3.0	0.0	52.9	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	128.4	-53.2	2.1	-0.8	-1.7		0.0	0.5	-3.0	9.2	66.2	
Construction Unit B Max Day	CNEL	123.7	20817	128.4	-53.2	2.1	-0.8	-1.7		0.0	0.5	-3.0	0.0	67.7	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.4	-58.3	2.4	-11.2	-0.7		4.1	0.0	0.0	6.7	40.9	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.0	-58.5	2.3	-18.3	-0.8		-5.9	0.0	0.0	6.7	23.4	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.6	-57.9	2.0	-0.5	-1.7		4.5	0.0	0.0	6.7	53.6	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.1	-14.7	-0.7		-5.2	0.0	0.0	6.7	30.7	
Cooling Tower M 512	CNEL	95.7		227.7	-58.1	3.1	-16.9	-0.8		0.0	1.2	0.0	6.7	30.9	
Cooling Tower M 513	CNEL	95.7		228.2	-58.2	3.1	-16.3	-0.8		0.0	1.1	0.0	6.7	31.3	
Cooling Tower M 514	CNEL	95.7		227.0	-58.1	3.1	-17.2	-0.8		0.0	1.2	0.0	6.7	30.6	
Heater # 5-Heater	CNEL	91.1	13	142.7	-54.1	1.8	-0.5	-0.8		0.0	0.0	0.0	6.7	47.1	
Heater # 5-Heater	CNEL	91.1	13	137.8	-53.8	1.7	-0.5	-0.8		0.0	0.0	0.0	6.7	47.3	
Heater # 5-Heater	CNEL	91.1	13	132.8	-53.5	1.6	-0.5	-0.8		0.0	0.0	0.0	6.7	47.6	
Hydro Heater H-402	CNEL	98.1		239.5	-58.6	2.0	-2.4	-1.0		0.0	0.0	0.0	6.7	44.8	
Motor & Pump P 56A/B	CNEL	93.7		257.3	-59.2	3.1	-2.2	-2.0	-0.28	0.0	0.1	0.0	6.7	39.9	
Motor & Pump P 120/121	CNEL	96.2	2	303.1	-60.6	3.4	-19.1	-1.0	-0.50	0.0	0.0	0.0	6.7	25.0	
Motor & Pump P 211/212	CNEL	93.7		246.3	-58.8	3.0	-10.7	-1.2	-0.74	0.0	0.0	0.0	6.7	31.8	
Motor & Pump P 215/214	CNEL	94.6		250.7	-59.0	3.0	-4.8	-1.6	-0.85	0.0	0.0	0.0	6.7	38.0	
Motor & Pump P 216	CNEL	98.3		250.6	-59.0	2.8	-6.3	-1.7	-0.75	0.0	0.0	0.0	6.7	40.2	
Motor & Pump P 217/218	CNEL	93.7		248.0	-58.9	3.2	-10.2	-1.3	-0.79	0.0	0.0	0.0	6.7	32.4	
Motor & Pump P 300	CNEL	97.1	2	310.6	-60.8	3.4	-16.9	-1.0	-0.47	0.0	3.0	0.0	6.7	31.0	
Motor & Pump P 301	CNEL	102.1	2	309.1	-60.8	3.4	-17.9	-1.0	-0.47	0.0	1.8	0.0	6.7	33.8	
Motor & Pump P 302	CNEL	97.1	2	312.2	-60.9	3.4	-16.0	-1.1	-0.15	0.0	3.3	0.0	6.7	32.4	
Motor & Pump P 303	CNEL	97.1	2	313.5	-60.9	3.4	-15.8	-1.0	-0.15	0.0	3.2	0.0	6.7	32.4	
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.4	-15.3	-1.0	-0.34	0.0	3.2	0.0	6.7	33.2	
Motor & Pump P 306	CNEL	112.6	4	322.9	-61.2	3.0	-17.1	-1.1	-0.34	0.0	2.1	0.0	6.7	44.7	
Motor & Pump P 307	CNEL	102.1	2	304.8	-60.7	3.4	-16.4	-1.0	-0.47	0.0	1.4	0.0	6.7	35.0	
Motor & Pump P 309	CNEL	97.5	2	316.2	-61.0	3.4	-15.4	-1.0	-0.27	0.0	2.1	0.0	6.7	32.0	
Motor & Pump P 312	CNEL	101.5	2	285.8	-60.1	3.4	-4.8	-1.2	-0.86	0.0	0.4	0.0	6.7	45.0	
Motor & Pump P 313	CNEL	101.5	2	284.2	-60.1	3.4	-2.9	-1.4	-0.88	0.0	0.8	0.0	6.7	47.1	
Motor & Pump P 315	CNEL	102.9	2	278.9	-59.9	3.2	-5.7	-1.1	-1.05	0.0	0.0	0.0	6.7	45.1	
Motor & Pump P 316	CNEL	102.9	2	277.2	-59.8	3.2	-3.9	-1.1	-1.09	0.0	0.9	0.0	6.7	47.7	
Motor & Pump P 317	CNEL	102.9	2	275.4	-59.8	3.1	-4.1	-1.1	-1.13	0.0	1.8	0.0	6.7	48.4	
Motor & Pump P 318	CNEL	100.2	1	280.3	-59.9	3.4	-4.1	-1.1	-0.99	0.0	0.0	0.0	6.7	44.1	
Motor & Pump P 319	CNEL	100.2	1	281.6	-60.0	3.4	-3.3	-1.2	-0.95	0.0	0.0	0.0	6.7	44.8	
Motor & Pump P 327	CNEL	111.2	3	330.3	-61.4	3.7	-22.2	-1.9	-0.14	0.0	5.1	0.0	6.7	41.1	
Motor & Pump P 328	CNEL	109.9	5	317.7	-61.0	3.3	-15.9	-1.1	-0.21	0.0	1.9	0.0	6.7	43.6	
Motor & Pump P 329	CNEL	110.2	5	320.2	-61.1	3.4	-17.3	-1.1	-0.10	0.0	2.0	0.0	6.7	42.6	
Motor & Pump P 451	CNEL	93.7		232.9	-58.3	3.0	-9.1	-1.4		0.0	0.0	0.0	6.7	34.4	
Motor & Pump P 453	CNEL	93.7		221.3	-57.9	2.8	-4.5	-1.4		0.0	0.0	0.0	6.7	39.3	
Motor & Pump P 454	CNEL	93.7		234.0	-58.4	3.0	-10.8	-1.1		0.0	0.0	0.0	6.7	33.0	
Motor & Pump P 457	CNEL	93.7		220.0	-57.8	2.8	-3.6	-1.6		0.0	0.0	0.0	6.7	40.1	
Motor & Pump P 458	CNEL	93.7		232.3	-58.3	3.0	-4.5	-1.5		0.0	0.0	0.0	6.7	39.0	
Motor & Pump P 459	CNEL	93.7		234.9	-58.4	3.0	-9.7	-1.3		0.0	0.0	0.0	6.7	33.9	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.3	-59.0	3.3	-20.4	-1.5		0.0	0.0	0.0	6.7	25.3	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		253.9	-59.1	3.3	-17.7	-1.2		0.0	0.0	0.0	6.7	28.2	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.8	-60.0	3.6	-10.9	-1.5	-0.24	0.0	4.1	0.0	6.7	37.1	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		282.9	-60.0	3.6	-11.3	-1.5	-0.25	0.0	4.4	0.0	6.7	37.0	
Motor & Pump P 1601 A	CNEL	96.3	2	243.0	-58.7	3.2	-18.8	-1.2		0.0	0.0	0.0	6.7	27.5	
Motor & Pump P 1601 B	CNEL	96.3	2	242.5	-58.7	3.2	-18.5	-1.2		0.0	0.0	0.0	6.7	27.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1602 A	CNEL	96.3	2	242.0	-58.7	3.2	-18.2	-1.2		0.0	0.0	0.0	6.7	28.1	
Motor & Pump P 1602 B	CNEL	96.5	2	241.6	-58.7	3.2	-17.4	-1.2		0.0	0.0	0.0	6.7	29.2	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.3	-58.9	3.4	-18.1	-1.2	-0.08	0.0	0.0	0.0	6.7	28.4	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	253.9	-59.1	3.4	-15.0	-1.3	-0.20	0.0	0.0	0.0	6.7	31.2	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.2	-59.2	3.5	-13.7	-1.3	-0.24	0.0	0.0	0.0	6.7	32.3	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.0	-59.1	3.4	-18.0	-1.2		0.0	0.0	0.0	6.7	28.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.7	-59.2	3.4	-18.0	-1.2	-0.01	0.0	0.0	0.0	6.7	28.3	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.7	-59.2	3.5	-11.0	-1.4	-0.06	0.0	0.0	0.0	6.7	34.9	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.4	-59.3	3.5	-16.9	-1.3	-0.22	0.0	0.0	0.0	6.7	28.8	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.7	-59.3	3.5	-9.4	-1.5	-0.31	0.0	0.0	0.0	6.7	35.9	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.1	-59.3	3.5	-9.7	-1.4	-0.35	0.0	0.0	0.0	6.7	35.7	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	98.8	-50.9	0.3	-1.1	-0.3		0.0	0.4	-38.6	0.0	44.5	
Tank Farm Pump 1	CNEL	99.0	3	270.9	-59.6	4.0	-4.1	-2.2		0.0	1.8	0.0	6.7	45.5	
Tank Farm Pump 2	CNEL	99.0	3	285.5	-60.1	4.1	-4.7	-2.2		0.0	0.0	0.0	6.7	42.9	
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	4.1	-4.7	-2.2		0.0	0.0	0.0	6.7	42.7	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	209.5	-57.4	1.2	-0.3	-2.6		0.0	0.6	-16.8	0.0	37.2	
XF-1502 Splitter Area 1	CNEL	104.5		256.9	-59.2	1.5	-3.4	-1.6	-0.01	-4.2	0.0	0.0	6.7	44.2	
XF-1502 Splitter Area 2	CNEL	104.5		253.4	-59.1	1.5	-14.1	-1.0		-3.4	0.0	0.0	6.7	35.0	
XF-1504 Splitter Area 1	CNEL	104.5		255.4	-59.1	1.5	-1.2	-2.2	-0.06	-4.6	0.0	0.0	6.7	45.6	
XF-1504 Splitter Area 2	CNEL	104.5		251.9	-59.0	1.5	-2.0	-1.7		-4.4	0.0	0.0	6.7	45.7	
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	0.8	-1.8	-1.2		-3.3	0.3	0.0	6.7	51.0	
XF 313, XF 314	CNEL	113.0	18	338.1	-61.6	1.6	-5.3	-1.1	-0.08	-3.6	0.1	0.0	6.7	49.7	
XF 335-1, XF 335-2	CNEL	113.4	54	321.8	-61.1	1.0	-3.5	-1.7	0.00	-3.4	0.2	0.0	6.7	51.6	
XF 503	CNEL	113.0	21	258.2	-59.2	1.2	-1.8	-2.6	-0.81	-4.0	0.0	0.0	6.7	52.4	
XF - 1601	CNEL	96.6		241.5	-58.6	1.0	0.0	-0.9		-3.0	0.0	0.0	6.7	41.7	
XF - 1602	CNEL	96.6		239.8	-58.6	1.1	0.0	-0.9		-3.0	0.0	0.0	6.7	41.8	
XF Module 1510	CNEL	108.3		252.0	-59.0	1.4	-6.3	-1.3	-0.10	-4.0	0.0	0.0	6.7	45.6	
XF Module 1519	CNEL	109.0		257.0	-59.2	1.4	-6.0	-1.4	-0.22	-4.0	0.0	0.0	6.7	46.4	
Lakewood NB	CNEL		606								0.9			29.2	
Lakewood SB	CNEL		606								0.9			29.3	
Somerset Ave EB	CNEL		917								1.3			46.4	
Somerset Ave WB	CNEL		917								1.4			46.2	
Downey Ave NB	CNEL		608								3.0			31.4	
Downey Ave SB	CNEL		608								3.0			31.4	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.9			47.4	
Crude Operatoin Truck Truck Traffic	CNEL		520								2.5			28.4	
Receiver SS-6 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 72.9 dB(A) Ld 7-19 dB(A) Leq,N 64.0 dB(A) Le 19-22 dB(A) CNEL 73.5 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	98.0	-50.8	1.3	-0.2	-1.9		0.0	0.3	-10.8	0.0	46.8	
Air Compressor C 1	CNEL	110.0	5	314.8	-61.0	3.5	-6.1	-0.7	-0.53	0.0	2.5	0.0	6.7	54.4	
Air Compressor Pump	CNEL	100.3		139.5	-53.9	2.5	-18.8	-1.8		0.0	6.5	0.0	6.7	41.5	
Blower F 401	CNEL	113.0		213.0	-57.6	1.9	-12.4	-0.3		0.0	1.7	0.0	6.7	53.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.1	-53.9	2.3	-8.9	-0.4		0.0	0.0	0.0	6.7	44.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	2.3	-12.5	-1.0	-0.86	2.8	3.1	0.0	6.7	45.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.7	-59.5	2.4	-2.6	-1.8	-1.18	0.0	0.3	0.0	6.7	44.8	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	2.3	-16.7	-0.6	-0.98	-7.8	12.3	0.0	6.7	42.0	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	2.2	-11.3	-1.2	-0.66	2.0	0.1	0.0	6.7	49.0	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.6	-59.4	2.3	-9.2	-0.9	-1.05	1.7	0.8	0.0	6.7	44.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.2	-15.9	-0.6	-0.46	-7.5	0.1	0.0	6.7	25.0	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	197.3	-56.9	2.7	0.0	-2.3		0.0	0.1	-3.0	9.2	62.7	
Construciton Control Room Max Day	CNEL	123.7	5461	197.3	-56.9	2.7	0.0	-2.3		0.0	0.1	-3.0	0.0	64.2	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	440.2	-63.9	4.0	-14.1	-1.8		0.0	0.1	-3.0	0.0	45.0	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	525.2	-65.4	4.3	-5.6	-3.1		0.0	0.3	-3.0	0.0	51.3	
Construction H2 Plant Max Day	CNEL	123.7	9281	202.7	-57.1	2.6	-3.6	-2.1		0.0	0.0	-3.0	0.0	60.6	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	202.7	-57.1	2.6	-3.6	-2.1		0.0	0.0	-3.0	9.2	59.0	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction PreTreat Building Max Day	CNEL	123.7	6360	268.1	-59.6	3.1	-2.6	-2.9		0.0	0.2	-3.0	0.0	58.9	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	268.1	-59.6	3.1	-2.6	-2.9		0.0	0.2	-3.0	9.2	57.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	327.1	-61.3	3.0	-6.0	-2.4	-0.78	0.0	0.3	-3.0	0.0	53.6	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	128.5	-53.2	2.3	-0.6	-1.6		0.0	0.5	-3.0	9.2	66.6	
Construction Unit B Max Day	CNEL	123.7	20817	128.5	-53.2	2.3	-0.6	-1.6		0.0	0.5	-3.0	0.0	68.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.4	-58.3	2.6	-10.5	-0.6		4.1	0.0	0.0	6.7	41.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.1	-58.5	2.5	-17.7	-0.7		-5.9	0.0	0.0	6.7	24.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.6	-57.9	2.4	0.0	-1.5		4.5	0.0	0.0	6.7	54.7	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.4	-14.2	-0.6		-5.2	0.0	0.0	6.7	31.6	
Cooling Tower M 512	CNEL	95.7		227.8	-58.1	2.7	-16.5	-0.8		0.0	1.3	0.0	6.7	30.9	
Cooling Tower M 513	CNEL	95.7		228.2	-58.2	2.6	-15.9	-0.8		0.0	1.2	0.0	6.7	31.3	
Cooling Tower M 514	CNEL	95.7		227.1	-58.1	2.7	-16.8	-0.8		0.0	1.3	0.0	6.7	30.7	
Heater # 5-Heater	CNEL	91.1	13	142.8	-54.1	2.4	-0.1	-0.7		0.0	0.0	0.0	6.7	48.3	
Heater # 5-Heater	CNEL	91.1	13	137.9	-53.8	2.3	-0.1	-0.7		0.0	0.0	0.0	6.7	48.6	
Heater # 5-Heater	CNEL	91.1	13	132.9	-53.5	2.3	-0.1	-0.7		0.0	0.0	0.0	6.7	48.9	
Hydro Heater H-402	CNEL	98.1		239.5	-58.6	2.6	-1.7	-0.9		0.0	0.0	0.0	6.7	46.1	
Motor & Pump P 56A/B	CNEL	93.7		257.3	-59.2	2.9	-1.8	-2.1	-0.28	0.0	0.1	0.0	6.7	40.0	
Motor & Pump P 120/121	CNEL	96.2	2	303.1	-60.6	3.4	-18.7	-0.9	-0.51	0.0	0.0	0.0	6.7	25.5	
Motor & Pump P 211/212	CNEL	93.7		246.4	-58.8	2.7	-10.1	-1.2	-0.75	0.0	0.0	0.0	6.7	32.2	
Motor & Pump P 215/214	CNEL	94.6		250.7	-59.0	2.8	-4.2	-1.7	-0.86	0.0	0.0	0.0	6.7	38.4	
Motor & Pump P 216	CNEL	98.3		250.6	-59.0	2.6	-5.4	-1.7	-0.75	0.0	0.0	0.0	6.7	40.7	
Motor & Pump P 217/218	CNEL	93.7		248.1	-58.9	3.0	-9.7	-1.2	-0.80	0.0	0.1	0.0	6.7	32.8	
Motor & Pump P 300	CNEL	97.1	2	310.6	-60.8	3.4	-16.0	-0.9	-0.48	0.0	2.6	0.0	6.7	31.5	
Motor & Pump P 301	CNEL	102.1	2	309.1	-60.8	3.4	-17.3	-0.9	-0.48	0.0	2.1	0.0	6.7	34.8	
Motor & Pump P 302	CNEL	97.1	2	312.2	-60.9	3.5	-15.5	-1.0	-0.16	0.0	2.9	0.0	6.7	32.6	
Motor & Pump P 303	CNEL	97.1	2	313.6	-60.9	3.4	-15.4	-1.0	-0.16	0.0	2.9	0.0	6.7	32.7	
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.4	-14.8	-0.9	-0.35	0.0	2.9	0.0	6.7	33.4	
Motor & Pump P 306	CNEL	112.6	4	322.9	-61.2	3.4	-16.4	-0.9	-0.35	0.0	1.7	0.0	6.7	45.5	
Motor & Pump P 307	CNEL	102.1	2	304.9	-60.7	3.4	-16.1	-1.0	-0.47	0.0	1.9	0.0	6.7	35.9	
Motor & Pump P 309	CNEL	97.5	2	316.2	-61.0	3.4	-15.0	-1.0	-0.28	0.0	1.8	0.0	6.7	32.2	
Motor & Pump P 312	CNEL	101.5	2	285.8	-60.1	3.3	-4.4	-1.1	-0.87	0.0	0.5	0.0	6.7	45.5	
Motor & Pump P 313	CNEL	101.5	2	284.3	-60.1	3.3	-2.3	-1.3	-0.90	0.0	0.7	0.0	6.7	47.7	
Motor & Pump P 315	CNEL	102.9	2	278.9	-59.9	3.1	-5.1	-1.1	-1.06	0.0	0.0	0.0	6.7	45.6	
Motor & Pump P 316	CNEL	102.9	2	277.2	-59.8	3.1	-3.0	-1.2	-1.09	0.0	0.8	0.0	6.7	48.3	
Motor & Pump P 317	CNEL	102.9	2	275.5	-59.8	3.1	-3.1	-1.2	-1.13	0.0	1.5	0.0	6.7	48.9	
Motor & Pump P 318	CNEL	100.2	1	280.3	-59.9	3.3	-3.9	-1.1	-1.00	0.0	0.0	0.0	6.7	44.2	
Motor & Pump P 319	CNEL	100.2	1	281.6	-60.0	3.3	-3.1	-1.1	-0.97	0.0	0.0	0.0	6.7	45.0	
Motor & Pump P 327	CNEL	111.2	3	330.3	-61.4	3.6	-21.2	-1.9	-0.12	0.0	5.3	0.0	6.7	42.2	
Motor & Pump P 328	CNEL	109.9	5	317.7	-61.0	3.3	-15.5	-1.0	-0.22	0.0	1.7	0.0	6.7	43.9	
Motor & Pump P 329	CNEL	110.2	5	320.3	-61.1	3.4	-17.0	-1.1	-0.11	0.0	1.9	0.0	6.7	42.8	
Motor & Pump P 451	CNEL	93.7		232.9	-58.3	2.6	-9.0	-1.3		0.0	0.0	0.0	6.7	34.4	
Motor & Pump P 453	CNEL	93.7		221.4	-57.9	2.5	-3.2	-1.6		0.0	0.0	0.0	6.7	40.2	
Motor & Pump P 454	CNEL	93.7		234.0	-58.4	2.6	-10.3	-1.0		0.0	0.0	0.0	6.7	33.2	
Motor & Pump P 457	CNEL	93.7		220.1	-57.8	2.5	-2.5	-1.7		0.0	0.0	0.0	6.7	40.7	
Motor & Pump P 458	CNEL	93.7		232.4	-58.3	2.6	-3.2	-1.7		0.0	0.0	0.0	6.7	39.8	
Motor & Pump P 459	CNEL	93.7		234.9	-58.4	2.7	-9.5	-1.2		0.0	0.0	0.0	6.7	33.9	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.4	-59.0	3.0	-20.1	-1.4		0.0	0.0	0.0	6.7	25.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		253.9	-59.1	3.0	-17.2	-1.1		0.0	0.0	0.0	6.7	28.5	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.9	-60.0	3.4	-10.7	-1.4	-0.24	0.0	3.9	0.0	6.7	36.9	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		282.9	-60.0	3.4	-11.1	-1.4	-0.25	0.0	4.2	0.0	6.7	36.8	
Motor & Pump P 1601 A	CNEL	96.3	2	243.0	-58.7	2.8	-18.4	-1.1		0.0	0.0	0.0	6.7	27.6	
Motor & Pump P 1601 B	CNEL	96.3	2	242.6	-58.7	2.8	-18.1	-1.1		0.0	0.0	0.0	6.7	27.9	
Motor & Pump P 1602 A	CNEL	96.3	2	242.0	-58.7	2.8	-17.8	-1.1		0.0	0.0	0.0	6.7	28.2	
Motor & Pump P 1602 B	CNEL	96.5	2	241.6	-58.7	2.7	-17.0	-1.1		0.0	0.0	0.0	6.7	29.2	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.4	-58.9	3.1	-17.6	-1.1	-0.08	0.0	0.0	0.0	6.7	28.6	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	253.9	-59.1	3.1	-14.5	-1.2	-0.20	0.0	0.0	0.0	6.7	31.4	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.2	-59.2	3.1	-13.4	-1.2	-0.25	0.0	0.0	0.0	6.7	32.4	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.0	-59.1	3.1	-17.4	-1.1		0.0	0.0	0.0	6.7	28.8	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.7	-59.2	3.1	-17.3	-1.1	-0.01	0.0	0.0	0.0	6.7	28.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.7	-59.2	3.2	-10.7	-1.3	-0.07	0.0	0.0	0.0	6.7	34.9	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.5	-59.3	3.2	-16.4	-1.2	-0.22	0.0	0.0	0.0	6.7	29.2	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.8	-59.3	3.2	-9.2	-1.4	-0.31	0.0	0.0	0.0	6.7	35.9	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.1	-59.3	3.2	-9.4	-1.3	-0.36	0.0	0.0	0.0	6.7	35.8	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	99.0	-50.9	0.6	-0.5	-0.3		0.0	0.3	-38.6	0.0	45.2	
Tank Farm Pump 1	CNEL	99.0	3	270.9	-59.6	3.5	-3.1	-2.4		0.0	1.6	0.0	6.7	45.6	
Tank Farm Pump 2	CNEL	99.0	3	285.5	-60.1	3.6	-4.3	-2.2		0.0	0.0	0.0	6.7	42.7	
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	3.6	-4.3	-2.2		0.0	0.0	0.0	6.7	42.6	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	209.5	-57.4	1.3	-0.2	-2.5		0.0	0.6	-16.8	0.0	37.3	
XF-1502 Splitter Area 1	CNEL	104.5		256.9	-59.2	2.1	-3.3	-1.6	0.00	-4.1	0.0	0.0	6.7	45.2	
XF-1502 Splitter Area 2	CNEL	104.5		253.3	-59.1	2.1	-14.0	-1.0		-3.1	0.0	0.0	6.7	36.2	
XF-1504 Splitter Area 1	CNEL	104.5		255.3	-59.1	2.2	-0.5	-1.9	-0.03	-4.5	0.0	0.0	6.7	47.2	
XF-1504 Splitter Area 2	CNEL	104.5		251.8	-59.0	2.1	-1.9	-1.7		-4.2	0.0	0.0	6.7	46.5	
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	1.8	-2.7	-1.1		-3.1	0.3	0.0	6.7	51.5	
XF 313, XF 314	CNEL	113.0	18	338.0	-61.6	2.3	-5.1	-1.0	-0.08	-3.4	0.1	0.0	6.7	51.0	
XF 335-1, XF 335-2	CNEL	113.4	54	321.8	-61.1	2.0	-3.2	-1.6	0.00	-3.3	0.1	0.0	6.7	53.0	
XF 503	CNEL	113.0	21	258.2	-59.2	1.9	-1.4	-2.5	-0.82	-3.8	0.0	0.0	6.7	53.8	
XF - 1601	CNEL	96.6		241.3	-58.6	2.1	0.0	-0.8		-2.6	0.0	0.0	6.7	43.4	
XF - 1602	CNEL	96.6		239.7	-58.6	2.1	0.0	-0.8		-2.6	0.0	0.0	6.7	43.4	
XF Module 1510	CNEL	108.3		251.9	-59.0	2.1	-4.9	-1.5	-0.11	-4.0	0.0	0.0	6.7	47.5	
XF Module 1519	CNEL	109.0		256.9	-59.2	2.1	-4.7	-1.5	-0.22	-4.0	0.0	0.0	6.7	48.2	
Lakewood NB	CNEL		606								0.9			30.4	
Lakewood SB	CNEL		606								0.8			30.5	
Somerset Ave EB	CNEL		917								1.4			47.8	
Somerset Ave WB	CNEL		917								1.6			47.5	
Downey Ave NB	CNEL		608								2.5			32.2	
Downey Ave SB	CNEL		608								2.6			32.1	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.9			47.5	
Crude Operatoin Truck Truck Traffic	CNEL		520								2.3			28.0	
Receiver SS-6 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 73.0 dB(A) Ld 7-19 dB(A) Leq,N 64.2 dB(A) Le 19-22 dB(A) CNEL 73.6 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	98.3	-50.8	1.3	-0.1	-1.9		0.0	0.3	-10.8	0.0	46.9	
Air Compressor C 1	CNEL	110.0	5	314.9	-61.0	3.0	-4.3	-0.9	-0.52	0.0	3.1	0.0	6.7	56.0	
Air Compressor Pump	CNEL	100.3		139.6	-53.9	2.5	-18.7	-1.8		0.0	7.4	0.0	6.7	42.5	
Blower F 401	CNEL	113.0		213.1	-57.6	2.3	-12.2	-0.3		0.0	1.8	0.0	6.7	53.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.2	-53.9	2.4	-8.9	-0.4		0.0	0.0	0.0	6.7	44.5	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	2.4	-12.1	-1.0	-0.85	2.8	3.1	0.0	6.7	46.4	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.7	-59.5	2.5	-2.5	-1.9	-1.17	0.0	0.3	0.0	6.7	44.9	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	2.4	-14.8	-0.7	-0.95	-7.8	11.7	0.0	6.7	43.3	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	2.3	-11.0	-1.1	-0.65	2.0	0.1	0.0	6.7	49.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.7	-59.4	2.4	-8.7	-0.9	-1.04	1.7	0.8	0.0	6.7	45.4	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.3	-14.3	-0.8	-0.46	-7.5	0.2	0.0	6.7	26.6	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	197.4	-56.9	2.7	0.0	-2.2		0.0	0.1	-3.0	9.2	62.8	
Construciton Control Room Max Day	CNEL	123.7	5461	197.4	-56.9	2.7	0.0	-2.2		0.0	0.1	-3.0	0.0	64.3	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	440.2	-63.9	3.6	-13.7	-1.8		0.0	0.2	-3.0	0.0	45.1	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	525.2	-65.4	4.0	-5.1	-3.2		0.0	0.3	-3.0	0.0	51.3	
Construction H2 Plant Max Day	CNEL	123.7	9281	202.8	-57.1	2.7	-3.4	-2.1		0.0	0.0	-3.0	0.0	60.8	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	202.8	-57.1	2.7	-3.4	-2.1		0.0	0.0	-3.0	9.2	59.3	
Construction PreTreat Building Max Day	CNEL	123.7	6360	268.1	-59.6	2.8	-2.3	-2.8		0.0	0.2	-3.0	0.0	59.0	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	268.1	-59.6	2.8	-2.3	-2.8		0.0	0.2	-3.0	9.2	57.5	
Construction Unit A Construction Max Day	CNEL	123.7	3185	327.1	-61.3	2.6	-5.2	-2.5	-0.80	0.0	0.3	-3.0	0.0	53.8	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	128.6	-53.2	2.3	-0.6	-1.6		0.0	0.5	-3.0	9.2	66.6	
Construction Unit B Max Day	CNEL	123.7	20817	128.6	-53.2	2.3	-0.6	-1.6		0.0	0.5	-3.0	0.0	68.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.5	-58.3	2.6	-10.2	-0.6		4.1	0.0	0.0	6.7	42.2	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.1	-58.5	2.6	-17.4	-0.6		-5.9	0.0	0.0	6.7	24.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.7	-57.9	2.5	0.0	-1.4		4.5	0.0	0.0	6.7	54.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.6	-13.6	-0.7		-5.2	0.0	0.0	6.7	32.2	
Cooling Tower M 512	CNEL	95.7		227.8	-58.1	2.6	-16.3	-0.8		0.0	1.4	0.0	6.7	31.2	
Cooling Tower M 513	CNEL	95.7		228.3	-58.2	2.6	-15.7	-0.8		0.0	1.3	0.0	6.7	31.6	
Cooling Tower M 514	CNEL	95.7		227.1	-58.1	2.6	-16.6	-0.8		0.0	1.5	0.0	6.7	31.0	
Heater # 5-Heater	CNEL	91.1	13	142.9	-54.1	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	48.4	
Heater # 5-Heater	CNEL	91.1	13	138.0	-53.8	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	48.7	
Heater # 5-Heater	CNEL	91.1	13	133.0	-53.5	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	49.0	
Hydro Heater H-402	CNEL	98.1		239.6	-58.6	2.5	-1.7	-0.9		0.0	0.0	0.0	6.7	46.1	
Motor & Pump P 56A/B	CNEL	93.7		257.4	-59.2	2.6	-1.8	-2.0	-0.28	0.0	0.2	0.0	6.7	39.7	
Motor & Pump P 120/121	CNEL	96.2	2	303.2	-60.6	2.8	-17.3	-1.0	-0.50	0.0	0.0	0.0	6.7	26.2	
Motor & Pump P 211/212	CNEL	93.7		246.4	-58.8	2.5	-7.7	-1.3	-0.75	0.0	0.0	0.0	6.7	34.2	
Motor & Pump P 215/214	CNEL	94.6		250.8	-59.0	2.5	-3.7	-1.8	-0.85	0.0	0.0	0.0	6.7	38.5	
Motor & Pump P 216	CNEL	98.3		250.7	-59.0	2.4	-4.8	-1.9	-0.74	0.0	0.0	0.0	6.7	41.0	
Motor & Pump P 217/218	CNEL	93.7		248.2	-58.9	2.5	-7.7	-1.3	-0.80	0.0	0.0	0.0	6.7	34.1	
Motor & Pump P 300	CNEL	97.1	2	310.7	-60.8	2.9	-13.7	-1.0	-0.48	0.0	0.7	0.0	6.7	31.3	
Motor & Pump P 301	CNEL	102.1	2	309.2	-60.8	2.8	-13.7	-1.0	-0.48	0.0	1.5	0.0	6.7	37.2	
Motor & Pump P 302	CNEL	97.1	2	312.3	-60.9	2.9	-15.0	-1.0	-0.19	0.0	0.5	0.0	6.7	30.1	
Motor & Pump P 303	CNEL	97.1	2	313.6	-60.9	2.8	-14.8	-1.0	-0.19	0.0	0.8	0.0	6.7	30.6	
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	2.9	-13.6	-1.0	-0.38	0.0	0.4	0.0	6.7	31.6	
Motor & Pump P 306	CNEL	112.6	4	323.0	-61.2	2.8	-16.1	-0.9	-0.36	0.0	0.8	0.0	6.7	44.4	
Motor & Pump P 307	CNEL	102.1	2	304.9	-60.7	2.8	-11.5	-1.0	-0.47	0.0	1.4	0.0	6.7	39.3	
Motor & Pump P 309	CNEL	97.5	2	316.3	-61.0	2.9	-13.9	-1.0	-0.32	0.0	0.3	0.0	6.7	31.1	
Motor & Pump P 312	CNEL	101.5	2	285.9	-60.1	2.7	-4.2	-1.1	-0.87	0.0	0.6	0.0	6.7	45.1	
Motor & Pump P 313	CNEL	101.5	2	284.3	-60.1	2.7	-2.2	-1.3	-0.90	0.0	0.8	0.0	6.7	47.2	
Motor & Pump P 315	CNEL	102.9	2	279.0	-59.9	2.5	-4.7	-1.1	-1.06	0.0	0.0	0.0	6.7	45.3	
Motor & Pump P 316	CNEL	102.9	2	277.3	-59.9	2.5	-2.9	-1.2	-1.09	0.0	0.8	0.0	6.7	47.9	
Motor & Pump P 317	CNEL	102.9	2	275.5	-59.8	2.5	-2.9	-1.2	-1.13	0.0	1.5	0.0	6.7	48.5	
Motor & Pump P 318	CNEL	100.2	1	280.4	-59.9	2.7	-3.6	-1.1	-1.00	0.0	0.0	0.0	6.7	44.0	
Motor & Pump P 319	CNEL	100.2	1	281.7	-60.0	2.7	-2.8	-1.1	-0.96	0.0	0.0	0.0	6.7	44.7	
Motor & Pump P 327	CNEL	111.2	3	330.4	-61.4	3.0	-21.2	-1.9	-0.13	0.0	5.6	0.0	6.7	42.0	
Motor & Pump P 328	CNEL	109.9	5	317.8	-61.0	2.8	-14.6	-1.0	-0.26	0.0	0.3	0.0	6.7	42.8	
Motor & Pump P 329	CNEL	110.2	5	320.3	-61.1	2.8	-16.9	-1.1	-0.11	0.0	0.9	0.0	6.7	41.3	
Motor & Pump P 451	CNEL	93.7		233.0	-58.3	2.5	-8.9	-1.3		0.0	0.0	0.0	6.7	34.3	
Motor & Pump P 453	CNEL	93.7		221.5	-57.9	2.5	-2.7	-1.7		0.0	0.0	0.0	6.7	40.5	
Motor & Pump P 454	CNEL	93.7		234.1	-58.4	2.5	-8.5	-1.1		0.0	0.0	0.0	6.7	34.9	
Motor & Pump P 457	CNEL	93.7		220.2	-57.8	2.5	-2.2	-1.8		0.0	0.0	0.0	6.7	41.0	
Motor & Pump P 458	CNEL	93.7		232.4	-58.3	2.5	-2.9	-1.7		0.0	0.0	0.0	6.7	39.9	
Motor & Pump P 459	CNEL	93.7		235.0	-58.4	2.5	-9.5	-1.2		0.0	0.0	0.0	6.7	33.8	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.4	-59.0	2.6	-20.1	-1.4		0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		254.0	-59.1	2.6	-16.9	-1.1		0.0	0.0	0.0	6.7	28.4	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.9	-60.0	2.7	-10.7	-1.4	-0.24	0.0	4.2	0.0	6.7	36.6	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		283.0	-60.0	2.7	-11.1	-1.4	-0.25	0.0	4.5	0.0	6.7	36.4	
Motor & Pump P 1601 A	CNEL	96.3	2	243.1	-58.7	2.7	-16.0	-1.2		0.0	0.0	0.0	6.7	29.7	
Motor & Pump P 1601 B	CNEL	96.3	2	242.6	-58.7	2.7	-15.9	-1.2		0.0	0.0	0.0	6.7	29.9	
Motor & Pump P 1602 A	CNEL	96.3	2	242.1	-58.7	2.7	-15.7	-1.2		0.0	0.0	0.0	6.7	30.1	
Motor & Pump P 1602 B	CNEL	96.5	2	241.7	-58.7	2.7	-15.2	-1.2		0.0	0.0	0.0	6.7	30.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.4	-58.9	2.6	-17.3	-1.1	-0.08	0.0	0.0	0.0	6.7	28.5	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	254.0	-59.1	2.7	-14.3	-1.1	-0.20	0.0	0.0	0.0	6.7	31.2	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.3	-59.2	2.7	-13.2	-1.2	-0.25	0.0	0.0	0.0	6.7	32.1	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.1	-59.1	2.6	-17.0	-1.1		0.0	0.0	0.0	6.7	28.7	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.8	-59.2	2.6	-16.9	-1.1	-0.01	0.0	0.0	0.0	6.7	28.8	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.8	-59.3	2.7	-9.9	-1.3	-0.07	0.0	0.0	0.0	6.7	35.2	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.5	-59.3	2.7	-15.7	-1.2	-0.22	0.0	0.0	0.0	6.7	29.2	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.8	-59.3	2.7	-9.0	-1.4	-0.32	0.0	0.0	0.0	6.7	35.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.2	-59.3	2.7	-9.1	-1.3	-0.36	0.0	0.0	0.0	6.7	35.6	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	99.4	-50.9	0.6	-0.3	-0.3		0.0	0.3	-38.6	0.0	45.4	
Tank Farm Pump 1	CNEL	99.0	3	271.0	-59.7	2.8	-1.7	-2.5		0.0	1.3	0.0	6.7	45.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Tank Farm Pump 2	CNEL	99.0	3	285.6	-60.1	2.8	-3.5	-2.4		0.0	0.1	0.0	6.7	42.6	
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	2.9	-3.5	-2.4		0.0	0.1	0.0	6.7	42.4	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	209.8	-57.4	1.3	-0.1	-2.5		0.0	0.5	-16.8	0.0	37.4	
XF-1502 Splitter Area 1	CNEL	104.5		256.8	-59.2	2.3	-3.3	-1.6	0.00	-4.0	0.0	0.0	6.7	45.4	
XF-1502 Splitter Area 2	CNEL	104.5		253.3	-59.1	2.3	-13.9	-1.0		-3.0	0.0	0.0	6.7	36.5	
XF-1504 Splitter Area 1	CNEL	104.5		255.3	-59.1	2.3	-0.2	-1.8	-0.02	-4.5	0.0	0.0	6.7	47.9	
XF-1504 Splitter Area 2	CNEL	104.5		251.8	-59.0	2.3	-1.9	-1.6		-4.1	0.0	0.0	6.7	46.8	
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	2.2	-2.4	-1.1		-2.8	0.3	0.0	6.7	52.5	
XF 313, XF 314	CNEL	113.0	18	338.0	-61.6	2.6	-4.9	-1.0	-0.08	-3.2	0.0	0.0	6.7	51.4	
XF 335-1, XF 335-2	CNEL	113.4	54	321.7	-61.1	2.3	-3.0	-1.5	0.00	-3.1	0.2	0.0	6.7	53.8	
XF 503	CNEL	113.0	21	258.2	-59.2	2.2	-1.1	-2.5	-0.82	-3.7	0.0	0.0	6.7	54.5	
XF - 1601	CNEL	96.6		241.2	-58.6	2.3	0.0	-0.8		-2.5	0.0	0.0	6.7	43.7	
XF - 1602	CNEL	96.6		239.6	-58.6	2.3	0.0	-0.8		-2.5	0.0	0.0	6.7	43.8	
XF Module 1510	CNEL	108.3		251.9	-59.0	2.3	-4.4	-1.6	-0.10	-4.0	0.0	0.0	6.7	48.1	
XF Module 1519	CNEL	109.0		256.9	-59.2	2.3	-4.3	-1.6	-0.22	-4.0	0.0	0.0	6.7	48.7	
Lakewood NB	CNEL		606								1.0			32.0	
Lakewood SB	CNEL		606								0.9			32.0	
Somerset Ave EB	CNEL		917								1.1			48.6	
Somerset Ave WB	CNEL		917								1.1			48.1	
Downey Ave NB	CNEL		608								2.1			33.3	
Downey Ave SB	CNEL		608								2.1			33.3	
Construction / Renewable Fuels Truck Tr	CNEL		1368								0.9			47.6	
Crude Operatoin Truck Truck Traffic	CNEL		520								2.4			28.1	
Receiver MH-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.5 dB(A) Ld 7-19 dB(A) Leq,N 56.5 dB(A) Le 19-22 dB(A) CNEL 64.0 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	258.8	-59.3	4.4	-18.5	-1.0	-0.21	0.0	0.0	-10.8	0.0	23.7	
Air Compressor C 1	CNEL	110.0	5	98.9	-50.9	2.9	-22.0	-0.3		0.0	2.7	0.0	6.7	49.0	
Air Compressor Pump	CNEL	100.3		242.3	-58.7	4.3	-24.0	-2.5		0.0	0.0	0.0	6.7	26.1	
Blower F 401	CNEL	113.0		201.0	-57.1	3.7	-13.7	-0.3	-1.00	0.0	0.0	0.0	6.7	51.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	416.1	-63.4	4.9	-22.4	-1.1		0.0	0.5	0.0	6.7	23.8	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	170.0	-55.6	3.2	-19.7	-0.4	-0.07	4.0	0.0	0.0	6.7	42.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	163.7	-55.3	3.1	-17.1	-0.4	-0.22	0.0	0.0	0.0	6.7	37.3	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	166.4	-55.4	3.2	-16.0	-0.3	-0.31	1.0	0.1	0.0	6.7	45.4	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	176.6	-55.9	3.3	-21.7	-0.5	-0.19	-7.8	0.0	0.0	6.7	34.5	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	167.0	-55.4	3.2	-21.8	-0.5	-0.15	-7.8	0.1	0.0	6.7	27.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	176.5	-55.9	3.2	-21.9	-0.7	-0.64	-6.8	0.0	0.0	6.7	24.4	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	271.7	-59.7	4.3	-22.8	-1.7		0.0	1.3	-3.0	9.2	40.6	
Construciton Control Room Max Day	CNEL	123.7	5461	271.7	-59.7	4.3	-22.8	-1.7		0.0	1.3	-3.0	0.0	42.1	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	572.1	-66.1	5.0	-22.4	-2.5		0.0	0.1	-3.0	0.0	34.8	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	503.8	-65.0	4.1	-7.8	-3.7		0.0	0.4	-3.0	0.0	48.7	
Construction H2 Plant Max Day	CNEL	123.7	9281	180.8	-56.1	3.5	-23.2	-1.4		0.0	0.8	-3.0	0.0	44.1	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	180.8	-56.1	3.5	-23.2	-1.4		0.0	0.8	-3.0	9.2	42.6	
Construction PreTreat Building Max Day	CNEL	123.7	6360	365.4	-62.2	4.6	-22.1	-1.9		0.0	1.6	-3.0	0.0	40.8	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	365.4	-62.2	4.6	-22.1	-1.9		0.0	1.6	-3.0	9.2	39.3	
Construction Unit A Construction Max Day	CNEL	123.7	3185	144.5	-54.2	3.0	-14.6	-0.8	-0.16	0.0	0.5	-3.0	0.0	54.5	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	331.4	-61.4	4.6	-22.6	-1.8		0.0	0.1	-3.0	9.2	37.9	
Construction Unit B Max Day	CNEL	123.7	20817	331.4	-61.4	4.6	-22.6	-1.8		0.0	0.1	-3.0	0.0	39.4	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	152.5	-54.7	3.1	-21.7	-0.6	-0.62	-0.5	0.0	0.0	6.7	29.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.7	-54.7	3.1	-21.1	-0.6	-0.89	-0.7	0.0	0.0	6.7	29.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	156.3	-54.9	2.9	-23.4	-0.8		-3.3	0.0	0.0	6.7	27.7	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	154.0	-54.7	3.0	-12.1	-0.4		2.2	0.0	0.0	6.7	45.3	
Cooling Tower M 512	CNEL	95.7		159.0	-55.0	3.5	-24.2	-0.8	-0.87	0.0	0.0	0.0	6.7	25.1	
Cooling Tower M 513	CNEL	95.7		159.2	-55.0	3.4	-24.1	-0.7	-0.88	0.0	0.0	0.0	6.7	25.1	
Cooling Tower M 514	CNEL	95.7		159.1	-55.0	3.5	-24.7	-0.8		0.0	0.0	0.0	6.7	25.3	
Heater # 5-Heater	CNEL	91.1	13	414.8	-63.3	4.9	-23.6	-1.3		0.0	2.6	0.0	6.7	20.1	
Heater # 5-Heater	CNEL	91.1	13	412.0	-63.3	4.9	-23.6	-1.3		0.0	0.4	0.0	6.7	17.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Heater # 5-Heater	CNEL	91.1	13	409.2	-63.2	4.9	-23.9	-1.3		0.0	0.0	0.0	6.7	17.2	
Hydro Heater H-402	CNEL	98.1		161.6	-55.2	3.5	-16.1	-0.3		0.0	0.0	0.0	6.7	36.7	
Motor & Pump P 56A/B	CNEL	93.7		147.8	-54.4	3.3	-20.4	-0.8	-0.53	0.0	0.1	0.0	6.7	27.7	
Motor & Pump P 120/121	CNEL	96.2	2	110.0	-51.8	2.9	-13.0	-0.4		0.0	1.9	0.0	6.7	42.4	
Motor & Pump P 211/212	CNEL	93.7		177.4	-56.0	3.9	-19.1	-0.8	-1.25	0.0	0.3	0.0	6.7	27.4	
Motor & Pump P 215/214	CNEL	94.6		172.7	-55.7	3.9	-24.5	-1.5	-0.29	0.0	0.9	0.0	6.7	24.0	
Motor & Pump P 216	CNEL	98.3		179.3	-56.1	3.8	-18.6	-0.8	-1.01	0.0	0.0	0.0	6.7	32.2	
Motor & Pump P 217/218	CNEL	93.7		175.7	-55.9	4.3	-24.5	-1.5	-0.33	0.0	0.9	0.0	6.7	23.3	
Motor & Pump P 300	CNEL	97.1	2	114.0	-52.1	2.9	-20.4	-0.4		0.0	3.6	0.0	6.7	37.4	
Motor & Pump P 301	CNEL	102.1	2	115.4	-52.2	2.9	-20.2	-0.4		0.0	4.1	0.0	6.7	43.0	
Motor & Pump P 302	CNEL	97.1	2	112.5	-52.0	2.9	-21.1	-0.4		0.0	6.9	0.0	6.7	40.1	
Motor & Pump P 303	CNEL	97.1	2	111.3	-51.9	2.9	-21.5	-0.4		0.0	8.5	0.0	6.7	41.3	
Motor & Pump P 305	CNEL	97.5	2	110.0	-51.8	2.9	-21.8	-0.4		0.0	9.4	0.0	6.7	42.4	
Motor & Pump P 306	CNEL	112.6	4	102.5	-51.2	2.9	-21.3	-0.6		0.0	3.5	0.0	6.7	52.5	
Motor & Pump P 307	CNEL	102.1	2	119.6	-52.5	3.0	-18.8	-0.4		0.0	4.1	0.0	6.7	44.2	
Motor & Pump P 309	CNEL	97.5	2	108.8	-51.7	2.9	-22.1	-0.4		0.0	9.3	0.0	6.7	42.1	
Motor & Pump P 312	CNEL	101.5	2	139.0	-53.9	3.6	-22.1	-0.5		0.0	0.7	0.0	6.7	36.0	
Motor & Pump P 313	CNEL	101.5	2	140.7	-54.0	3.7	-21.8	-0.5		0.0	0.5	0.0	6.7	36.1	
Motor & Pump P 315	CNEL	102.9	2	146.6	-54.3	3.6	-20.7	-0.5		0.0	0.2	0.0	6.7	37.8	
Motor & Pump P 316	CNEL	102.9	2	148.5	-54.4	3.6	-20.5	-0.5		0.0	0.2	0.0	6.7	37.9	
Motor & Pump P 317	CNEL	102.9	2	150.2	-54.5	3.5	-20.2	-0.5	-0.01	0.0	0.1	0.0	6.7	38.0	
Motor & Pump P 318	CNEL	100.2	1	144.6	-54.2	3.8	-21.3	-0.5		0.0	0.5	0.0	6.7	35.2	
Motor & Pump P 319	CNEL	100.2	1	143.3	-54.1	3.8	-21.5	-0.5		0.0	0.5	0.0	6.7	35.1	
Motor & Pump P 327	CNEL	111.2	3	96.6	-50.7	2.9	-23.7	-0.7		0.0	5.1	0.0	6.7	50.9	
Motor & Pump P 328	CNEL	109.9	5	107.2	-51.6	2.9	-21.3	-0.4		0.0	7.3	0.0	6.7	53.5	
Motor & Pump P 329	CNEL	110.2	5	104.8	-51.4	2.9	-20.8	-0.4		0.0	4.4	0.0	6.7	51.6	
Motor & Pump P 451	CNEL	93.7		168.3	-55.5	3.7	-23.6	-1.2		0.0	0.1	0.0	6.7	23.7	
Motor & Pump P 453	CNEL	93.7		179.4	-56.1	3.8	-24.5	-1.5		0.0	0.0	0.0	6.7	22.0	
Motor & Pump P 454	CNEL	93.7		168.1	-55.5	3.7	-18.9	-0.8		0.0	0.0	0.0	6.7	28.8	
Motor & Pump P 457	CNEL	93.7		180.9	-56.1	3.8	-24.4	-1.5		0.0	0.0	0.0	6.7	22.0	
Motor & Pump P 458	CNEL	93.7		168.1	-55.5	3.7	-24.6	-1.5		0.0	0.1	0.0	6.7	22.6	
Motor & Pump P 459	CNEL	93.7		167.1	-55.5	3.6	-18.9	-0.8		0.0	0.0	0.0	6.7	28.8	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		137.8	-53.8	3.3	-18.7	-0.7	-0.01	0.0	0.1	0.0	6.7	33.1	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		136.1	-53.7	3.3	-18.7	-0.7		0.0	0.1	0.0	6.7	33.1	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		102.1	-51.2	2.9	-14.7	-0.5	-0.08	0.0	0.1	0.0	6.7	38.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		101.0	-51.1	2.9	-14.7	-0.5	-0.05	0.0	0.1	0.0	6.7	38.7	
Motor & Pump P 1601 A	CNEL	96.3	2	137.5	-53.8	2.9	-14.4	-0.7		0.0	2.0	0.0	6.7	39.1	
Motor & Pump P 1601 B	CNEL	96.3	2	137.6	-53.8	2.9	-24.6	-1.3		0.0	9.1	0.0	6.7	35.4	
Motor & Pump P 1602 A	CNEL	96.3	2	138.0	-53.8	2.9	-24.6	-1.3		0.0	9.3	0.0	6.7	35.5	
Motor & Pump P 1602 B	CNEL	96.5	2	138.2	-53.8	2.9	-14.3	-0.7		0.0	0.0	0.0	6.7	37.2	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	136.7	-53.7	3.4	-18.5	-0.7	-0.83	0.0	1.3	0.0	6.7	34.2	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	131.8	-53.4	3.3	-17.6	-0.7	-0.72	0.0	0.8	0.0	6.7	35.0	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	129.3	-53.2	3.2	-17.4	-0.7	-0.67	0.0	0.8	0.0	6.7	35.3	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	134.6	-53.6	3.2	-19.0	-0.7	-0.08	0.0	0.1	0.0	6.7	33.3	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	132.8	-53.5	3.2	-19.3	-0.7	-0.07	0.0	0.1	0.0	6.7	33.2	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	124.2	-52.9	3.2	-14.5	-0.6	-0.55	0.0	0.0	0.0	6.7	37.5	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	124.1	-52.9	3.2	-19.2	-0.6	-0.56	0.0	0.0	0.0	6.7	32.9	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	124.3	-52.9	3.1	-23.6	-1.0	-0.55	0.0	2.6	0.0	6.7	30.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	124.2	-52.9	3.2	-20.1	-0.6	-0.56	0.0	1.7	0.0	6.7	33.6	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	249.2	-58.9	4.5	-16.0	-0.4	-0.45	0.0	0.0	-38.6	0.0	24.9	
Tank Farm Pump 1	CNEL	99.0	3	310.9	-60.8	4.7	-23.7	-1.8		0.0	2.2	0.0	6.7	26.3	
Tank Farm Pump 2	CNEL	99.0	3	329.3	-61.3	4.8	-23.2	-1.8		0.0	0.0	0.0	6.7	24.1	
Tank Farm Pump 3	CNEL	99.0	3	334.6	-61.5	4.8	-23.1	-1.8		0.0	0.5	0.0	6.7	24.5	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	271.4	-59.7	3.5	-11.5	-2.4	-0.07	0.0	0.1	-16.8	0.0	25.6	
XF-1502 Splitter Area 1	CNEL	104.5		127.8	-53.1	2.9	-12.7	-0.6	-0.59	-3.4	0.0	0.0	6.7	43.6	
XF-1502 Splitter Area 2	CNEL	104.5		131.6	-53.4	2.9	-12.7	-0.6	-0.64	-3.4	0.0	0.0	6.7	43.3	
XF-1504 Splitter Area 1	CNEL	104.5		127.9	-53.1	2.9	-23.9	-0.8	0.00	-3.8	0.0	0.0	6.7	32.4	
XF-1504 Splitter Area 2	CNEL	104.5		131.6	-53.4	2.9	-23.9	-0.9		-3.8	0.0	0.0	6.7	32.2	
XF 304, XF 321	CNEL	110.5	56	119.6	-52.6	2.8	-13.9	-0.2	-0.09	-1.7	0.0	0.0	6.7	51.6	
XF 313, XF 314	CNEL	113.0	18	95.9	-50.6	2.8	-17.0	-0.2		-2.7	0.2	0.0	6.7	52.1	
XF 335-1, XF 335-2	CNEL	113.4	54	109.6	-51.8	2.8	-14.8	-0.3	-0.01	-1.9	0.2	0.0	6.7	54.4	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 503	CNEL	113.0	21	157.7	-54.9	2.8	-13.7	-0.7	-0.83	-3.3	0.0	0.0	6.7	49.1	
XF - 1601	CNEL	96.6		139.4	-53.9	2.8	-22.2	-0.3		-1.4	0.0	0.0	6.7	28.3	
XF - 1602	CNEL	96.6		140.3	-53.9	2.8	-9.7	-0.3		-1.6	0.0	0.0	6.7	40.6	
XF Module 1510	CNEL	108.3		135.5	-53.6	2.9	-12.9	-0.6	-0.74	-3.4	0.0	0.0	6.7	46.6	
XF Module 1519	CNEL	109.0		130.2	-53.3	2.9	-12.9	-0.6	-0.63	-3.4	0.0	0.0	6.7	47.8	
Lakewood NB	CNEL		606								6.1			27.1	
Lakewood SB	CNEL		606								6.2			26.9	
Somerset Ave EB	CNEL		917								3.7			17.6	
Somerset Ave WB	CNEL		917								3.4			17.9	
Downey Ave NB	CNEL		608								1.4			35.2	
Downey Ave SB	CNEL		608								1.6			35.2	
Construction / Renewable Fuels Truck Tr	CNEL		1368								9.6			31.2	
Crude Operatoin Truck Truck Traffic	CNEL		520								4.7			27.3	
Receiver MH-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.8 dB(A) Ld 7-19 dB(A) Leq,N 55.6 dB(A) Le 19-22 dB(A) CNEL 63.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	262.8	-59.4	4.4	-19.7	-1.1	-0.19	0.0	0.0	-10.8	0.0	22.3	
Air Compressor C 1	CNEL	110.0	5	112.8	-52.0	3.0	-22.0	-0.4		0.0	2.4	0.0	6.7	47.6	
Air Compressor Pump	CNEL	100.3		236.4	-58.5	4.3	-24.4	-2.7		0.0	0.0	0.0	6.7	25.6	
Blower F 401	CNEL	113.0		207.2	-57.3	3.7	-19.0	-0.3	-0.77	0.0	0.0	0.0	6.7	46.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	404.5	-63.1	4.9	-22.3	-1.0		0.0	0.8	0.0	6.7	24.5	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	181.1	-56.2	3.3	-19.5	-0.4	-0.51	3.4	0.0	0.0	6.7	41.5	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	174.6	-55.8	3.1	-11.9	-0.5	-0.58	0.0	0.0	0.0	6.7	41.5	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	178.6	-56.0	3.2	-14.9	-0.4	-0.38	1.5	0.1	0.0	6.7	46.3	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	188.4	-56.5	3.3	-21.7	-0.6	-0.34	-7.8	0.1	0.0	6.7	33.9	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	178.0	-56.0	3.2	-21.7	-0.5	-0.53	-7.8	0.1	0.0	6.7	27.1	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	189.6	-56.5	3.3	-22.1	-0.8	-0.46	-7.3	0.1	0.0	6.7	23.4	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	256.7	-59.2	4.2	-22.9	-1.7		0.0	0.4	-3.0	9.2	40.1	
Construciton Control Room Max Day	CNEL	123.7	5461	256.7	-59.2	4.2	-22.9	-1.7		0.0	0.4	-3.0	0.0	41.6	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	551.6	-65.8	5.0	-22.3	-2.5		0.0	1.2	-3.0	0.0	36.3	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	480.7	-64.6	4.1	-8.4	-3.4		0.0	1.6	-3.0	0.0	49.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	171.9	-55.7	3.4	-23.6	-1.5		0.0	0.5	-3.0	0.0	43.7	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	171.9	-55.7	3.4	-23.6	-1.5		0.0	0.5	-3.0	9.2	42.2	
Construction PreTreat Building Max Day	CNEL	123.7	6360	346.8	-61.8	4.6	-21.5	-1.6		0.0	1.3	-3.0	0.0	41.6	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	346.8	-61.8	4.6	-21.5	-1.6		0.0	1.3	-3.0	9.2	40.1	
Construction Unit A Construction Max Day	CNEL	123.7	3185	163.1	-55.2	3.2	-14.8	-0.9	-0.15	0.0	0.4	-3.0	0.0	53.2	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	320.7	-61.1	4.5	-22.8	-1.9		0.0	0.1	-3.0	9.2	38.1	
Construction Unit B Max Day	CNEL	123.7	20817	320.7	-61.1	4.5	-22.8	-1.9		0.0	0.1	-3.0	0.0	39.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	154.0	-54.7	3.1	-21.5	-0.6		3.2	0.0	0.0	6.7	34.0	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	156.1	-54.9	3.1	-21.8	-0.6	-0.90	-3.5	0.0	0.0	6.7	25.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	154.2	-54.8	2.9	-23.8	-0.9		-0.4	0.0	0.0	6.7	30.3	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	154.5	-54.8	3.1	-23.3	-0.8		-1.3	0.1	0.0	6.7	30.3	
Cooling Tower M 512	CNEL	95.7		161.4	-55.2	3.6	-24.8	-0.8		0.0	0.0	0.0	6.7	25.2	
Cooling Tower M 513	CNEL	95.7		161.8	-55.2	3.5	-24.8	-0.8		0.0	0.0	0.0	6.7	25.1	
Cooling Tower M 514	CNEL	95.7		161.3	-55.1	3.5	-24.2	-0.8	-0.18	0.0	0.0	0.0	6.7	25.6	
Heater # 5-Heater	CNEL	91.1	13	402.9	-63.1	4.9	-23.6	-1.2		0.0	3.2	0.0	6.7	20.8	
Heater # 5-Heater	CNEL	91.1	13	400.4	-63.0	4.9	-23.7	-1.2		0.0	1.2	0.0	6.7	18.9	
Heater # 5-Heater	CNEL	91.1	13	397.8	-63.0	4.9	-24.0	-1.3		0.0	0.4	0.0	6.7	17.7	
Hydro Heater H-402	CNEL	98.1		167.8	-55.5	3.5	-20.0	-0.4		0.0	0.0	0.0	6.7	32.4	
Motor & Pump P 56A/B	CNEL	93.7		155.7	-54.8	3.5	-20.2	-0.8	-0.35	0.0	0.0	0.0	6.7	27.6	
Motor & Pump P 120/121	CNEL	96.2	2	122.7	-52.8	3.0	-12.5	-0.4		0.0	0.8	0.0	6.7	41.0	
Motor & Pump P 211/212	CNEL	93.7		186.5	-56.4	4.0	-17.8	-0.9	-1.12	0.0	2.0	0.0	6.7	30.2	
Motor & Pump P 215/214	CNEL	94.6		182.1	-56.2	4.0	-19.0	-0.8	-0.98	0.0	1.1	0.0	6.7	29.3	
Motor & Pump P 216	CNEL	98.3		189.1	-56.5	3.9	-18.4	-0.9	-1.08	0.0	0.5	0.0	6.7	32.5	
Motor & Pump P 217/218	CNEL	93.7		184.9	-56.3	4.3	-17.9	-0.9	-1.07	0.0	0.8	0.0	6.7	29.3	
Motor & Pump P 300	CNEL	97.1	2	128.4	-53.2	3.2	-20.0	-0.4		0.0	7.1	0.0	6.7	40.4	
Motor & Pump P 301	CNEL	102.1	2	129.7	-53.2	3.2	-19.3	-0.4		0.0	7.9	0.0	6.7	46.9	
Motor & Pump P 302	CNEL	97.1	2	127.0	-53.1	3.2	-20.0	-0.4		0.0	7.6	0.0	6.7	41.0	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 303	CNEL	97.1	2	126.0	-53.0	3.1	-20.7	-0.4		0.0	9.1	0.0	6.7	41.8	
Motor & Pump P 305	CNEL	97.5	2	124.9	-52.9	3.0	-21.1	-0.4		0.0	8.8	0.0	6.7	41.6	
Motor & Pump P 306	CNEL	112.6	4	118.2	-52.4	2.8	-21.9	-0.7		0.0	2.4	0.0	6.7	49.5	
Motor & Pump P 307	CNEL	102.1	2	133.4	-53.5	3.3	-18.6	-0.4		0.0	6.1	0.0	6.7	45.6	
Motor & Pump P 309	CNEL	97.5	2	123.7	-52.8	3.0	-22.0	-0.5		0.0	8.4	0.0	6.7	40.3	
Motor & Pump P 312	CNEL	101.5	2	151.2	-54.6	3.8	-21.9	-0.6	-0.10	0.0	0.0	0.0	6.7	34.8	
Motor & Pump P 313	CNEL	101.5	2	152.7	-54.7	3.8	-21.6	-0.5	-0.13	0.0	0.0	0.0	6.7	35.0	
Motor & Pump P 315	CNEL	102.9	2	158.2	-55.0	3.7	-20.4	-0.5	-0.25	0.0	0.1	0.0	6.7	37.2	
Motor & Pump P 316	CNEL	102.9	2	159.9	-55.1	3.7	-20.2	-0.5	-0.29	0.0	0.0	0.0	6.7	37.2	
Motor & Pump P 317	CNEL	102.9	2	161.6	-55.2	3.7	-19.9	-0.5	-0.33	0.0	0.0	0.0	6.7	37.3	
Motor & Pump P 318	CNEL	100.2	1	156.3	-54.9	4.0	-21.0	-0.5	-0.23	0.0	0.1	0.0	6.7	34.3	
Motor & Pump P 319	CNEL	100.2	1	155.0	-54.8	4.0	-21.2	-0.5	-0.20	0.0	0.1	0.0	6.7	34.2	
Motor & Pump P 327	CNEL	111.2	3	113.2	-52.1	2.9	-23.6	-0.8		0.0	3.7	0.0	6.7	48.0	
Motor & Pump P 328	CNEL	109.9	5	122.3	-52.7	2.9	-21.9	-0.5		0.0	7.6	0.0	6.7	51.9	
Motor & Pump P 329	CNEL	110.2	5	120.2	-52.6	2.9	-22.6	-0.5		0.0	5.7	0.0	6.7	49.8	
Motor & Pump P 451	CNEL	93.7		174.0	-55.8	3.7	-24.3	-1.5		0.0	0.0	0.0	6.7	22.4	
Motor & Pump P 453	CNEL	93.7		184.5	-56.3	3.8	-13.7	-0.9	-0.50	0.0	0.0	0.0	6.7	32.7	
Motor & Pump P 454	CNEL	93.7		174.1	-55.8	3.7	-24.1	-1.4		0.0	0.0	0.0	6.7	22.8	
Motor & Pump P 457	CNEL	93.7		186.0	-56.4	3.9	-20.1	-0.9	-0.53	0.0	0.0	0.0	6.7	26.3	
Motor & Pump P 458	CNEL	93.7		173.7	-55.8	3.7	-24.3	-1.5		0.0	0.0	0.0	6.7	22.4	
Motor & Pump P 459	CNEL	93.7		173.1	-55.8	3.7	-24.2	-1.4		0.0	0.0	0.0	6.7	22.7	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		142.4	-54.1	3.4	-14.1	-0.7	-0.55	0.0	0.1	0.0	6.7	36.9	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		140.7	-54.0	3.4	-14.1	-0.7	-0.52	0.0	0.0	0.0	6.7	36.9	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		106.1	-51.5	2.9	-14.4	-0.6	-0.08	0.0	0.3	0.0	6.7	38.7	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		105.0	-51.4	2.9	-14.4	-0.6	-0.05	0.0	0.1	0.0	6.7	38.7	
Motor & Pump P 1601 A	CNEL	96.3	2	137.3	-53.7	2.9	-24.4	-1.2		0.0	2.8	0.0	6.7	29.3	
Motor & Pump P 1601 B	CNEL	96.3	2	137.3	-53.7	2.9	-24.7	-1.3		0.0	2.4	0.0	6.7	28.5	
Motor & Pump P 1602 A	CNEL	96.3	2	137.4	-53.8	2.9	-23.9	-1.1		0.0	2.0	0.0	6.7	29.1	
Motor & Pump P 1602 B	CNEL	96.5	2	137.4	-53.8	2.9	-23.9	-1.1		0.0	5.4	0.0	6.7	32.7	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	139.7	-53.9	3.4	-14.5	-0.7	-0.84	0.0	0.0	0.0	6.7	36.8	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	135.0	-53.6	3.3	-17.4	-0.7	-0.74	0.0	0.0	0.0	6.7	34.2	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	132.6	-53.4	3.3	-20.3	-0.7	-0.68	0.0	1.3	0.0	6.7	32.7	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	139.2	-53.9	3.3	-14.2	-0.7	-0.53	0.0	0.0	0.0	6.7	37.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	137.4	-53.8	3.3	-15.0	-0.7	-0.51	0.0	0.0	0.0	6.7	36.7	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	126.3	-53.0	3.2	-14.3	-0.7	-0.13	0.0	0.0	0.0	6.7	38.1	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	126.7	-53.0	3.2	-17.4	-0.7	-0.37	0.0	0.3	0.0	6.7	35.0	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	127.5	-53.1	3.2	-24.0	-1.1	-0.56	0.0	7.2	0.0	6.7	34.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	127.1	-53.1	3.2	-14.2	-0.7	-0.57	0.0	0.0	0.0	6.7	37.6	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	256.1	-59.2	4.5	-16.8	-0.4	-0.40	0.0	0.0	-38.6	0.0	23.9	
Tank Farm Pump 1	CNEL	99.0	3	291.7	-60.3	4.7	-23.4	-1.7		0.0	1.9	0.0	6.7	26.9	
Tank Farm Pump 2	CNEL	99.0	3	309.6	-60.8	4.7	-22.7	-1.6		0.0	0.1	0.0	6.7	25.4	
Tank Farm Pump 3	CNEL	99.0	3	314.8	-61.0	4.7	-22.6	-1.6		0.0	0.1	0.0	6.7	25.4	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	285.6	-60.1	3.6	-12.5	-2.2	-0.08	0.0	0.0	-16.8	0.0	24.3	
XF-1502 Splitter Area 1	CNEL	104.5		130.7	-53.3	2.8	-12.2	-0.6	-0.58	-3.5	0.0	0.0	6.7	43.9	
XF-1502 Splitter Area 2	CNEL	104.5		134.4	-53.6	2.8	-12.2	-0.6	-0.57	-3.5	0.0	0.0	6.7	43.7	
XF-1504 Splitter Area 1	CNEL	104.5		130.0	-53.3	2.8	-12.2	-0.6	-0.14	-3.5	0.0	0.0	6.7	44.4	
XF-1504 Splitter Area 2	CNEL	104.5		133.7	-53.5	2.8	-12.2	-0.6	-0.13	-3.5	0.0	0.0	6.7	44.1	
XF 304, XF 321	CNEL	110.5	56	134.5	-53.6	2.7	-13.5	-0.2	-0.07	-1.7	0.0	0.0	6.7	50.8	
XF 313, XF 314	CNEL	113.0	18	113.8	-52.1	2.7	-16.6	-0.3		-2.8	0.3	0.0	6.7	50.8	
XF 335-1, XF 335-2	CNEL	113.4	54	125.6	-53.0	2.7	-14.4	-0.3	-0.02	-1.9	0.2	0.0	6.7	53.4	
XF 503	CNEL	113.0	21	166.9	-55.4	2.8	-12.9	-0.7	-0.67	-3.3	0.0	0.0	6.7	49.5	
XF - 1601	CNEL	96.6		138.9	-53.8	2.8	-16.1	-0.2		-1.1	0.0	0.0	6.7	34.7	
XF - 1602	CNEL	96.6		138.8	-53.8	2.8	-16.1	-0.2		-1.1	0.0	0.0	6.7	34.8	
XF Module 1510	CNEL	108.3		139.2	-53.9	2.8	-12.3	-0.6	-0.76	-3.4	0.0	0.0	6.7	46.9	
XF Module 1519	CNEL	109.0		134.0	-53.5	2.8	-12.3	-0.6	-0.65	-3.4	0.0	0.0	6.7	48.0	
Lakewood NB	CNEL		606								9.4			29.0	
Lakewood SB	CNEL		606								9.3			28.8	
Somerset Ave EB	CNEL		917								3.9			17.9	
Somerset Ave WB	CNEL		917								3.6			18.2	
Downey Ave NB	CNEL		608								3.3			34.1	
Downey Ave SB	CNEL		608								3.6			34.3	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction / Renewable Fuels Truck Tr	CNEL		1368								10.3			31.8	
Crude Operatoin Truck Truck Traffic	CNEL		520								5.3			28.9	
Receiver MH-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 60.6 dB(A)			Ld 7-19 dB(A)		Leq,N 54.8 dB(A)		Le 19-22 dB(A)		CNEL 62.9 dB(A)		Lmax day hr dB(A)	Ld 7-1
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	267.6	-59.5	4.4	-18.4	-1.2	-0.08	0.0	0.1	-10.8	0.0	23.4	
Air Compressor C 1	CNEL	110.0	5	129.3	-53.2	3.3	-21.8	-0.4		0.0	3.7	0.0	6.7	48.2	
Air Compressor Pump	CNEL	100.3		232.1	-58.3	4.2	-24.4	-2.7		0.0	0.1	0.0	6.7	25.9	
Blower F 401	CNEL	113.0		215.4	-57.7	3.8	-20.2	-0.3	-0.61	0.0	0.0	0.0	6.7	44.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	393.2	-62.9	4.8	-19.2	-0.8		0.0	0.8	0.0	6.7	28.0	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	194.1	-56.8	3.3	-19.2	-0.5	-0.51	3.0	0.2	0.0	6.7	41.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	187.5	-56.5	3.2	-12.5	-0.6	-0.55	0.0	0.0	0.0	6.7	40.3	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	192.6	-56.7	3.3	-12.8	-0.4	-0.43	2.1	0.0	0.0	6.7	48.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	202.0	-57.1	3.4	-21.7	-0.6	-0.41	-7.8	0.3	0.0	6.7	33.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	190.9	-56.6	3.3	-21.6	-0.6	-0.51	-7.8	0.3	0.0	6.7	26.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	204.3	-57.2	3.4	-22.1	-0.8	-0.58	-7.6	0.1	0.0	6.7	22.2	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	242.5	-58.7	4.1	-16.3	-1.2		0.0	0.1	-3.0	9.2	47.2	
Construciton Control Room Max Day	CNEL	123.7	5461	242.5	-58.7	4.1	-16.3	-1.2		0.0	0.1	-3.0	0.0	48.7	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	530.8	-65.5	5.0	-22.1	-2.3		0.0	0.4	-3.0	0.0	36.1	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	457.2	-64.2	4.0	-7.7	-3.6		0.0	1.8	-3.0	0.0	51.0	
Construction H2 Plant Max Day	CNEL	123.7	9281	165.2	-55.4	3.3	-18.8	-1.0		0.0	0.4	-3.0	0.0	49.2	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	165.2	-55.4	3.3	-18.8	-1.0		0.0	0.4	-3.0	9.2	47.7	
Construction PreTreat Building Max Day	CNEL	123.7	6360	328.1	-61.3	4.5	-21.8	-1.6		0.0	0.7	-3.0	0.0	41.1	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	328.1	-61.3	4.5	-21.8	-1.6		0.0	0.7	-3.0	9.2	39.6	
Construction Unit A Construction Max Day	CNEL	123.7	3185	182.6	-56.2	3.4	-14.2	-1.0	-0.17	0.0	0.5	-3.0	0.0	53.1	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	310.5	-60.8	4.5	-17.1	-1.6		0.0	0.1	-3.0	9.2	44.3	
Construction Unit B Max Day	CNEL	123.7	20817	310.5	-60.8	4.5	-17.1	-1.6		0.0	0.1	-3.0	0.0	45.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	158.6	-55.0	3.2	-22.6	-0.7		4.4	0.0	0.0	6.7	33.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	162.4	-55.2	3.2	-23.7	-0.9	-0.45	-5.2	1.9	0.0	6.7	24.1	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	155.0	-54.8	3.0	-21.4	-0.6		3.4	0.0	0.0	6.7	36.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	158.0	-55.0	3.0	-24.3	-1.0		-3.8	0.2	0.0	6.7	26.4	
Cooling Tower M 512	CNEL	95.7		166.6	-55.4	3.6	-24.7	-0.9		0.0	0.0	0.0	6.7	25.0	
Cooling Tower M 513	CNEL	95.7		167.2	-55.5	3.5	-24.7	-0.9	-0.07	0.0	0.0	0.0	6.7	24.8	
Cooling Tower M 514	CNEL	95.7		166.3	-55.4	3.6	-24.7	-0.9		0.0	0.0	0.0	6.7	25.0	
Heater # 5-Heater	CNEL	91.1	13	391.4	-62.8	4.8	-22.6	-1.0		0.0	4.5	0.0	6.7	23.6	
Heater # 5-Heater	CNEL	91.1	13	389.1	-62.8	4.8	-22.7	-1.1		0.0	1.8	0.0	6.7	20.8	
Heater # 5-Heater	CNEL	91.1	13	386.7	-62.7	4.8	-23.5	-1.2		0.0	0.0	0.0	6.7	18.2	
Hydro Heater H-402	CNEL	98.1		176.5	-55.9	3.6	-21.4	-0.5	-0.45	0.0	0.0	0.0	6.7	30.1	
Motor & Pump P 56A/B	CNEL	93.7		166.2	-55.4	3.6	-20.0	-0.8	-0.27	0.0	0.2	0.0	6.7	27.7	
Motor & Pump P 120/121	CNEL	96.2	2	137.9	-53.8	3.3	-18.5	-0.4		0.0	3.4	0.0	6.7	36.8	
Motor & Pump P 211/212	CNEL	93.7		197.7	-56.9	4.1	-18.6	-0.9	-1.07	0.0	1.6	0.0	6.7	28.6	
Motor & Pump P 215/214	CNEL	94.6		193.5	-56.7	4.1	-18.7	-0.9	-0.93	0.0	2.0	0.0	6.7	30.1	
Motor & Pump P 216	CNEL	98.3		200.9	-57.0	4.0	-18.5	-0.9	-1.05	0.0	0.3	0.0	6.7	31.8	
Motor & Pump P 217/218	CNEL	93.7		196.2	-56.8	4.4	-19.0	-0.9	-1.02	0.0	3.1	0.0	6.7	30.1	
Motor & Pump P 300	CNEL	97.1	2	145.0	-54.2	3.5	-18.8	-0.5		0.0	3.9	0.0	6.7	37.6	
Motor & Pump P 301	CNEL	102.1	2	146.1	-54.3	3.5	-18.7	-0.5		0.0	5.8	0.0	6.7	44.6	
Motor & Pump P 302	CNEL	97.1	2	143.8	-54.1	3.5	-20.3	-0.5		0.0	3.2	0.0	6.7	35.5	
Motor & Pump P 303	CNEL	97.1	2	142.9	-54.1	3.3	-20.5	-0.5		0.0	6.5	0.0	6.7	38.5	
Motor & Pump P 305	CNEL	97.5	2	141.9	-54.0	3.3	-21.5	-0.5		0.0	7.7	0.0	6.7	39.2	
Motor & Pump P 306	CNEL	112.6	4	136.0	-53.7	2.9	-21.9	-0.7		0.0	0.8	0.0	6.7	46.6	
Motor & Pump P 307	CNEL	102.1	2	149.5	-54.5	3.5	-12.0	-0.5		0.0	3.1	0.0	6.7	48.4	
Motor & Pump P 309	CNEL	97.5	2	140.9	-54.0	3.3	-21.3	-0.5		0.0	7.8	0.0	6.7	39.6	
Motor & Pump P 312	CNEL	101.5	2	165.5	-55.4	4.0	-21.5	-0.6	-0.30	0.0	3.9	0.0	6.7	38.2	
Motor & Pump P 313	CNEL	101.5	2	166.9	-55.4	4.0	-21.2	-0.6	-0.33	0.0	1.3	0.0	6.7	35.8	
Motor & Pump P 315	CNEL	102.9	2	172.0	-55.7	3.9	-16.1	-0.5	-0.35	0.0	0.1	0.0	6.7	40.8	
Motor & Pump P 316	CNEL	102.9	2	173.6	-55.8	3.9	-16.0	-0.6	-0.35	0.0	0.1	0.0	6.7	40.9	
Motor & Pump P 317	CNEL	102.9	2	175.1	-55.9	3.8	-16.0	-0.6	-0.35	0.0	0.1	0.0	6.7	40.7	
Motor & Pump P 318	CNEL	100.2	1	170.2	-55.6	4.1	-19.0	-0.6	-0.34	0.0	0.2	0.0	6.7	35.6	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 319	CNEL	100.2	1	169.0	-55.5	4.1	-21.0	-0.6	-0.34	0.0	0.3	0.0	6.7	33.8	
Motor & Pump P 327	CNEL	111.2	3	131.9	-53.4	3.2	-23.4	-0.8		0.0	3.1	0.0	6.7	46.5	
Motor & Pump P 328	CNEL	109.9	5	139.6	-53.9	3.0	-20.5	-0.5		0.0	6.6	0.0	6.7	51.4	
Motor & Pump P 329	CNEL	110.2	5	137.8	-53.8	3.0	-22.3	-0.5		0.0	6.3	0.0	6.7	49.5	
Motor & Pump P 451	CNEL	93.7		182.2	-56.2	3.8	-24.5	-1.6		0.0	0.8	0.0	6.7	22.6	
Motor & Pump P 453	CNEL	93.7		191.9	-56.7	3.9	-23.9	-1.4	-0.57	0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 454	CNEL	93.7		182.5	-56.2	3.8	-24.5	-1.6		0.0	0.6	0.0	6.7	22.5	
Motor & Pump P 457	CNEL	93.7		193.3	-56.7	3.9	-23.9	-1.4	-0.57	0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 458	CNEL	93.7		181.8	-56.2	3.8	-23.9	-1.4	-0.45	0.0	0.8	0.0	6.7	23.0	
Motor & Pump P 459	CNEL	93.7		181.6	-56.2	3.8	-24.5	-1.6		0.0	0.6	0.0	6.7	22.5	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		150.1	-54.5	3.5	-24.1	-1.2	-0.69	0.0	0.6	0.0	6.7	26.5	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		148.5	-54.4	3.5	-24.1	-1.2	-0.66	0.0	3.2	0.0	6.7	29.1	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		114.4	-52.2	2.9	-24.1	-1.0	-0.08	0.0	0.0	0.0	6.7	27.6	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		113.3	-52.1	2.9	-24.1	-1.0	-0.05	0.0	0.0	0.0	6.7	27.7	
Motor & Pump P 1601 A	CNEL	96.3	2	140.6	-54.0	2.9	-24.6	-1.3		0.0	2.6	0.0	6.7	28.6	
Motor & Pump P 1601 B	CNEL	96.3	2	140.3	-53.9	2.9	-24.2	-1.2		0.0	2.6	0.0	6.7	29.2	
Motor & Pump P 1602 A	CNEL	96.3	2	140.3	-53.9	2.9	-24.2	-1.2		0.0	4.3	0.0	6.7	30.9	
Motor & Pump P 1602 B	CNEL	96.5	2	140.0	-53.9	2.9	-24.2	-1.2		0.0	3.0	0.0	6.7	29.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	146.1	-54.3	3.5	-24.5	-1.3	-0.26	0.0	1.9	0.0	6.7	28.4	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	141.5	-54.0	3.4	-24.2	-1.2	-0.46	0.0	1.7	0.0	6.7	28.5	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	139.2	-53.9	3.4	-24.2	-1.2	-0.46	0.0	1.7	0.0	6.7	28.6	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	147.0	-54.3	3.4	-24.2	-1.2	-0.66	0.0	1.8	0.0	6.7	28.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	145.3	-54.2	3.4	-24.2	-1.2	-0.62	0.0	1.8	0.0	6.7	28.3	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	132.1	-53.4	3.3	-24.3	-1.2	-0.06	0.0	0.0	0.0	6.7	27.4	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	132.8	-53.5	3.3	-24.6	-1.2	-0.19	0.0	0.0	0.0	6.7	26.8	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	134.3	-53.6	3.3	-24.4	-1.2	-0.41	0.0	0.0	0.0	6.7	26.7	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	133.7	-53.5	3.3	-24.3	-1.2	-0.33	0.0	0.0	0.0	6.7	27.0	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	263.7	-59.4	4.5	-16.5	-0.4	-0.24	0.0	0.0	-38.6	0.0	24.1	
Tank Farm Pump 1	CNEL	99.0	3	272.5	-59.7	4.6	-23.4	-1.6		0.0	2.2	0.0	6.7	27.7	
Tank Farm Pump 2	CNEL	99.0	3	289.8	-60.2	4.6	-22.8	-1.5		0.0	0.9	0.0	6.7	26.7	
Tank Farm Pump 3	CNEL	99.0	3	294.9	-60.4	4.7	-22.5	-1.5		0.0	0.2	0.0	6.7	26.2	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	300.1	-60.5	3.7	-13.1	-2.1	-0.05	0.0	0.1	-16.8	0.0	23.6	
XF-1502 Splitter Area 1	CNEL	104.5		137.1	-53.7	2.8	-23.2	-0.7	0.00	-3.0	0.0	0.0	6.7	33.4	
XF-1502 Splitter Area 2	CNEL	104.5		140.6	-54.0	2.8	-24.4	-1.0		-3.9	0.0	0.0	6.7	30.7	
XF-1504 Splitter Area 1	CNEL	104.5		135.6	-53.6	2.8	-23.2	-0.7	-0.01	-3.0	0.0	0.0	6.7	33.4	
XF-1504 Splitter Area 2	CNEL	104.5		139.2	-53.9	2.8	-23.2	-0.8		-3.0	0.1	0.0	6.7	33.3	
XF 304, XF 321	CNEL	110.5	56	151.4	-54.6	2.7	-13.0	-0.3	-0.05	-1.8	0.1	0.0	6.7	50.3	
XF 313, XF 314	CNEL	113.0	18	133.3	-53.5	2.7	-16.0	-0.3		-2.8	0.3	0.0	6.7	50.0	
XF 335-1, XF 335-2	CNEL	113.4	54	143.5	-54.1	2.7	-13.8	-0.3	-0.03	-2.0	0.1	0.0	6.7	52.6	
XF 503	CNEL	113.0	21	178.4	-56.0	2.8	-11.8	-0.8	-0.60	-3.3	0.0	0.0	6.7	50.0	
XF - 1601	CNEL	96.6		141.9	-54.0	2.8	-18.8	-0.2		-1.1	0.3	0.0	6.7	32.2	
XF - 1602	CNEL	96.6		140.7	-54.0	2.8	-18.8	-0.2		-1.1	0.0	0.0	6.7	32.0	
XF Module 1510	CNEL	108.3		146.2	-54.3	2.8	-23.2	-0.8	-0.18	-3.0	0.0	0.0	6.7	36.3	
XF Module 1519	CNEL	109.0		141.2	-54.0	2.8	-23.3	-0.8	-0.17	-3.0	0.0	0.0	6.7	37.3	
Lakewood NB	CNEL		606								7.8			28.3	
Lakewood SB	CNEL		606								7.7			28.0	
Somerset Ave EB	CNEL		917								3.8			20.4	
Somerset Ave WB	CNEL		917								3.6			20.4	
Downey Ave NB	CNEL		608								3.4			32.0	
Downey Ave SB	CNEL		608								3.6			32.1	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.3			34.4	
Crude Operatoin Truck Truck Traffic	CNEL		520								5.3			29.3	
Receiver MH-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.5 dB(A) Ld 7-19 dB(A) Leq,N 53.6 dB(A) Le 19-22 dB(A) CNEL 62.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	273.7	-59.7	4.5	-18.8	-1.2	-0.05	0.0	0.0	-10.8	0.0	22.9	
Air Compressor C 1	CNEL	110.0	5	147.6	-54.4	3.5	-21.6	-0.4		0.0	3.7	0.0	6.7	47.5	
Air Compressor Pump	CNEL	100.3		230.4	-58.2	4.2	-20.9	-1.5		0.0	0.0	0.0	6.7	30.6	
Blower F 401	CNEL	113.0		225.9	-58.1	3.8	-21.2	-0.3	-0.42	0.0	0.0	0.0	6.7	43.5	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	383.4	-62.7	4.8	-21.8	-0.9		0.0	0.7	0.0	6.7	25.4	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	208.9	-57.4	3.4	-22.6	-0.7	-0.52	2.7	0.4	0.0	6.7	36.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	202.3	-57.1	3.3	-21.6	-0.8	-0.51	0.0	0.1	0.0	6.7	30.6	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	208.3	-57.4	3.4	-20.7	-0.5	-0.40	2.4	0.2	0.0	6.7	40.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	217.3	-57.7	3.5	-23.6	-0.8	-0.37	-7.7	0.4	0.0	6.7	31.0	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	205.7	-57.3	3.4	-23.6	-0.8	-0.51	-7.8	0.4	0.0	6.7	24.3	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	220.4	-57.9	3.5	-23.8	-1.1	-0.52	-7.7	0.2	0.0	6.7	19.8	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	230.3	-58.2	4.0	-21.4	-1.4		0.0	0.0	-3.0	9.2	42.2	
Construciton Control Room Max Day	CNEL	123.7	5461	230.3	-58.2	4.0	-21.4	-1.4		0.0	0.0	-3.0	0.0	43.7	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	510.6	-65.2	4.9	-21.8	-2.2		0.0	0.3	-3.0	0.0	36.7	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	434.0	-63.7	4.0	-8.7	-3.2		0.0	2.5	-3.0	0.0	51.6	
Construction H2 Plant Max Day	CNEL	123.7	9281	161.8	-55.2	3.2	-15.8	-0.9		0.0	0.3	-3.0	0.0	52.3	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	161.8	-55.2	3.2	-15.8	-0.9		0.0	0.3	-3.0	9.2	50.8	
Construction PreTreat Building Max Day	CNEL	123.7	6360	310.5	-60.8	4.4	-20.2	-1.5		0.0	0.1	-3.0	0.0	42.6	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	310.5	-60.8	4.4	-20.2	-1.5		0.0	0.1	-3.0	9.2	41.1	
Construction Unit A Construction Max Day	CNEL	123.7	3185	202.7	-57.1	3.6	-13.7	-1.1	-0.18	0.0	0.1	-3.0	0.0	52.3	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	302.5	-60.6	4.4	-17.1	-1.4		0.0	0.1	-3.0	9.2	44.6	
Construction Unit B Max Day	CNEL	123.7	20817	302.5	-60.6	4.4	-17.1	-1.4		0.0	0.1	-3.0	0.0	46.2	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	166.4	-55.4	3.2	-22.3	-0.7		3.9	0.0	0.0	6.7	33.3	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	171.8	-55.7	3.1	-24.1	-1.0	-0.17	-6.3	0.2	0.0	6.7	20.6	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	159.5	-55.0	3.0	-22.4	-0.7		4.4	0.4	0.0	6.7	36.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	165.0	-55.3	3.1	-23.9	-0.9		-5.4	0.0	0.0	6.7	24.9	
Cooling Tower M 512	CNEL	95.7		175.0	-55.9	3.7	-24.7	-0.9		0.0	0.2	0.0	6.7	24.8	
Cooling Tower M 513	CNEL	95.7		175.7	-55.9	3.6	-24.7	-0.9		0.0	0.2	0.0	6.7	24.7	
Cooling Tower M 514	CNEL	95.7		174.5	-55.8	3.7	-24.7	-0.9		0.0	0.2	0.0	6.7	24.8	
Heater # 5-Heater	CNEL	91.1	13	381.4	-62.6	4.8	-23.5	-1.2		0.0	3.0	0.0	6.7	21.3	
Heater # 5-Heater	CNEL	91.1	13	379.3	-62.6	4.8	-23.5	-1.2		0.0	1.4	0.0	6.7	19.7	
Heater # 5-Heater	CNEL	91.1	13	377.2	-62.5	4.8	-24.0	-1.3		0.0	0.0	0.0	6.7	17.8	
Hydro Heater H-402	CNEL	98.1		187.7	-56.5	3.7	-20.2	-0.5	-0.50	0.0	0.0	0.0	6.7	30.8	
Motor & Pump P 56A/B	CNEL	93.7		179.1	-56.1	3.7	-24.1	-1.4	-0.22	0.0	0.8	0.0	6.7	23.1	
Motor & Pump P 120/121	CNEL	96.2	2	155.1	-54.8	3.5	-22.1	-0.6	-0.01	0.0	2.0	0.0	6.7	30.8	
Motor & Pump P 211/212	CNEL	93.7		210.8	-57.5	4.2	-23.8	-1.5	-0.92	0.0	1.4	0.0	6.7	22.3	
Motor & Pump P 215/214	CNEL	94.6		207.0	-57.3	4.2	-23.7	-1.5	-0.90	0.0	3.4	0.0	6.7	25.5	
Motor & Pump P 216	CNEL	98.3		214.6	-57.6	4.1	-23.6	-1.5	-1.03	0.0	0.9	0.0	6.7	26.2	
Motor & Pump P 217/218	CNEL	93.7		209.5	-57.4	4.5	-23.7	-1.5	-0.91	0.0	3.7	0.0	6.7	24.9	
Motor & Pump P 300	CNEL	97.1	2	163.1	-55.2	3.7	-18.8	-0.5		0.0	3.8	0.0	6.7	36.7	
Motor & Pump P 301	CNEL	102.1	2	164.2	-55.3	3.7	-18.8	-0.5		0.0	5.2	0.0	6.7	43.0	
Motor & Pump P 302	CNEL	97.1	2	162.1	-55.2	3.7	-18.7	-0.5		0.0	1.1	0.0	6.7	34.1	
Motor & Pump P 303	CNEL	97.1	2	161.3	-55.1	3.6	-19.9	-0.5		0.0	4.9	0.0	6.7	36.7	
Motor & Pump P 305	CNEL	97.5	2	160.4	-55.1	3.6	-21.5	-0.6		0.0	7.5	0.0	6.7	38.1	
Motor & Pump P 306	CNEL	112.6	4	155.2	-54.8	3.2	-21.5	-0.7		0.0	0.7	0.0	6.7	46.2	
Motor & Pump P 307	CNEL	102.1	2	167.2	-55.5	3.7	-15.4	-0.5		0.0	3.7	0.0	6.7	44.8	
Motor & Pump P 309	CNEL	97.5	2	159.6	-55.1	3.6	-21.5	-0.6		0.0	7.6	0.0	6.7	38.2	
Motor & Pump P 312	CNEL	101.5	2	181.7	-56.2	4.1	-23.9	-0.8	-0.30	0.0	1.7	0.0	6.7	32.8	
Motor & Pump P 313	CNEL	101.5	2	182.9	-56.2	4.1	-23.6	-0.8	-0.30	0.0	1.8	0.0	6.7	33.1	
Motor & Pump P 315	CNEL	102.9	2	187.7	-56.5	4.0	-23.0	-0.8	-0.31	0.0	0.5	0.0	6.7	33.5	
Motor & Pump P 316	CNEL	102.9	2	189.1	-56.5	4.0	-23.0	-0.8	-0.31	0.0	0.5	0.0	6.7	33.4	
Motor & Pump P 317	CNEL	102.9	2	190.5	-56.6	4.0	-23.0	-0.8	-0.32	0.0	0.5	0.0	6.7	33.3	
Motor & Pump P 318	CNEL	100.2	1	185.9	-56.4	4.2	-23.1	-0.8	-0.31	0.0	0.5	0.0	6.7	31.0	
Motor & Pump P 319	CNEL	100.2	1	184.8	-56.3	4.2	-23.1	-0.8	-0.31	0.0	0.5	0.0	6.7	31.1	
Motor & Pump P 327	CNEL	111.2	3	151.7	-54.6	3.5	-23.2	-0.9		0.0	3.7	0.0	6.7	46.4	
Motor & Pump P 328	CNEL	109.9	5	158.4	-55.0	3.3	-20.4	-0.5		0.0	6.3	0.0	6.7	50.2	
Motor & Pump P 329	CNEL	110.2	5	156.8	-54.9	3.3	-20.8	-0.5		0.0	5.8	0.0	6.7	49.7	
Motor & Pump P 451	CNEL	93.7		193.0	-56.7	3.9	-23.3	-1.3	-0.54	0.0	0.0	0.0	6.7	22.4	
Motor & Pump P 453	CNEL	93.7		201.9	-57.1	4.0	-23.7	-1.5	-0.39	0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 454	CNEL	93.7		193.4	-56.7	3.9	-24.5	-1.7		0.0	0.0	0.0	6.7	21.3	
Motor & Pump P 457	CNEL	93.7		203.2	-57.2	4.0	-23.7	-1.5	-0.36	0.0	0.0	0.0	6.7	21.6	
Motor & Pump P 458	CNEL	93.7		192.5	-56.7	3.9	-23.3	-1.3	-0.57	0.0	0.1	0.0	6.7	22.5	
Motor & Pump P 459	CNEL	93.7		192.6	-56.7	3.9	-24.5	-1.7		0.0	0.0	0.0	6.7	21.4	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		160.9	-55.1	3.6	-23.7	-1.2	-0.54	0.0	2.2	0.0	6.7	28.1	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		159.5	-55.0	3.6	-23.7	-1.2	-0.55	0.0	0.6	0.0	6.7	26.6	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		126.6	-53.0	3.1	-24.5	-1.2	-0.10	0.0	0.2	0.0	6.7	26.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		125.6	-53.0	3.0	-24.5	-1.1	-0.06	0.0	1.2	0.0	6.7	27.6	
Motor & Pump P 1601 A	CNEL	96.3	2	147.8	-54.4	3.0	-24.6	-1.4		0.0	2.4	0.0	6.7	28.1	
Motor & Pump P 1601 B	CNEL	96.3	2	147.2	-54.4	3.0	-24.0	-1.2		0.0	2.1	0.0	6.7	28.5	
Motor & Pump P 1602 A	CNEL	96.3	2	147.0	-54.3	3.0	-23.9	-1.2		0.0	2.0	0.0	6.7	28.5	
Motor & Pump P 1602 B	CNEL	96.5	2	146.5	-54.3	3.0	-23.7	-1.1		0.0	1.8	0.0	6.7	28.9	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	155.8	-54.8	3.6	-24.0	-1.3	-0.35	0.0	2.0	0.0	6.7	28.5	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	151.6	-54.6	3.5	-24.3	-1.3	-0.25	0.0	1.8	0.0	6.7	28.2	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	149.4	-54.5	3.5	-24.2	-1.3	-0.29	0.0	0.7	0.0	6.7	27.3	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	157.9	-55.0	3.6	-23.7	-1.2	-0.55	0.0	0.2	0.0	6.7	26.7	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	156.4	-54.9	3.6	-23.7	-1.2	-0.54	0.0	0.7	0.0	6.7	27.2	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	141.6	-54.0	3.4	-24.4	-1.2	-0.04	0.0	1.8	0.0	6.7	28.5	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	142.7	-54.1	3.5	-24.3	-1.2	-0.17	0.0	0.1	0.0	6.7	26.7	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	144.8	-54.2	3.4	-23.9	-1.2	-0.32	0.0	0.0	0.0	6.7	26.8	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	143.9	-54.2	3.5	-23.9	-1.2	-0.24	0.0	0.2	0.0	6.7	27.2	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	272.3	-59.7	4.6	-16.8	-0.5	-0.12	0.0	0.0	-38.6	0.0	23.7	
Tank Farm Pump 1	CNEL	99.0	3	254.4	-59.1	4.5	-23.7	-1.5		0.0	0.2	0.0	6.7	26.0	
Tank Farm Pump 2	CNEL	99.0	3	271.1	-59.7	4.6	-19.9	-1.2		0.0	0.0	0.0	6.7	29.5	
Tank Farm Pump 3	CNEL	99.0	3	276.0	-59.8	4.6	-19.5	-1.2		0.0	0.0	0.0	6.7	29.7	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	315.3	-61.0	3.7	-13.9	-2.0	-0.04	0.0	0.1	-16.8	0.0	22.5	
XF-1502 Splitter Area 1	CNEL	104.5		147.1	-54.3	2.8	-24.5	-1.0	0.00	-4.0	0.0	0.0	6.7	30.2	
XF-1502 Splitter Area 2	CNEL	104.5		150.4	-54.5	2.8	-22.6	-0.8		-3.0	0.0	0.0	6.7	33.1	
XF-1504 Splitter Area 1	CNEL	104.5		145.0	-54.2	2.8	-22.8	-0.8	-0.01	-3.0	0.0	0.0	6.7	33.3	
XF-1504 Splitter Area 2	CNEL	104.5		148.3	-54.4	2.8	-22.8	-0.8		-3.0	0.0	0.0	6.7	33.0	
XF 304, XF 321	CNEL	110.5	56	169.7	-55.6	2.7	-12.5	-0.3	-0.04	-1.8	0.1	0.0	6.7	49.7	
XF 313, XF 314	CNEL	113.0	18	153.7	-54.7	2.6	-15.6	-0.4		-2.8	0.3	0.0	6.7	49.0	
XF 335-1, XF 335-2	CNEL	113.4	54	162.7	-55.2	2.7	-13.3	-0.4	-0.04	-2.0	0.1	0.0	6.7	51.8	
XF 503	CNEL	113.0	21	192.1	-56.7	2.8	-21.8	-1.3	-0.53	-2.9	0.1	0.0	6.7	39.4	
XF - 1601	CNEL	96.6		148.6	-54.4	2.8	-17.9	-0.2		-0.9	0.0	0.0	6.7	32.6	
XF - 1602	CNEL	96.6		146.6	-54.3	2.8	-17.9	-0.2		-0.9	0.0	0.0	6.7	32.7	
XF Module 1510	CNEL	108.3		156.4	-54.9	2.8	-21.4	-0.7	-0.19	-2.9	0.0	0.0	6.7	37.7	
XF Module 1519	CNEL	109.0		151.8	-54.6	2.8	-21.5	-0.7	-0.16	-2.9	0.0	0.0	6.7	38.7	
Lakewood NB	CNEL		606								12.0			32.3	
Lakewood SB	CNEL		606								12.1			32.2	
Somerset Ave EB	CNEL		917								2.3			21.7	
Somerset Ave WB	CNEL		917								2.4			21.7	
Downey Ave NB	CNEL		608								6.5			33.4	
Downey Ave SB	CNEL		608								6.7			33.6	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.7			35.3	
Crude Operatoin Truck Truck Traffic	CNEL		520								7.9			32.4	
Receiver MH-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.6 dB(A) Ld 7-19 dB(A) Leq,N 51.1 dB(A) Le 19-22 dB(A) CNEL 60.4 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	281.1	-60.0	4.5	-17.4	-1.1	-0.03	0.0	0.0	-10.8	0.0	24.2	
Air Compressor C 1	CNEL	110.0	5	167.5	-55.5	3.8	-23.1	-0.6		0.0	3.7	0.0	6.7	45.0	
Air Compressor Pump	CNEL	100.3		231.0	-58.3	4.2	-20.8	-1.4		0.0	0.3	0.0	6.7	31.0	
Blower F 401	CNEL	113.0		238.4	-58.5	3.9	-24.0	-0.4	-0.37	0.0	0.0	0.0	6.7	40.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	374.6	-62.5	4.8	-22.2	-1.0		0.0	0.8	0.0	6.7	25.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	225.4	-58.1	3.5	-22.4	-0.7	-0.55	2.5	0.1	0.0	6.7	35.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	218.9	-57.8	3.4	-21.2	-0.8	-0.51	0.0	0.1	0.0	6.7	30.4	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	225.7	-58.1	3.4	-20.0	-0.5	-0.36	2.6	0.1	0.0	6.7	40.4	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	234.2	-58.4	3.6	-23.6	-0.9	-0.28	-7.7	0.3	0.0	6.7	30.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	222.2	-57.9	3.5	-23.6	-0.8	-0.52	-7.7	0.1	0.0	6.7	23.4	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	238.1	-58.5	3.6	-23.7	-1.2	-0.25	-7.8	0.3	0.0	6.7	19.5	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	219.5	-57.8	3.9	-23.0	-1.6		0.0	0.1	-3.0	9.2	40.8	
Construciton Control Room Max Day	CNEL	123.7	5461	219.5	-57.8	3.9	-23.0	-1.6		0.0	0.1	-3.0	0.0	42.3	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	490.2	-64.8	4.9	-22.3	-2.3		0.0	0.2	-3.0	0.0	36.5	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	410.4	-63.3	4.0	-7.5	-3.4		0.0	0.6	-3.0	0.0	51.1	
Construction H2 Plant Max Day	CNEL	123.7	9281	161.5	-55.2	3.2	-16.1	-0.9		0.0	0.3	-3.0	0.0	52.1	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	161.5	-55.2	3.2	-16.1	-0.9		0.0	0.3	-3.0	9.2	50.6	
Construction PreTreat Building Max Day	CNEL	123.7	6360	293.4	-60.3	4.4	-18.3	-1.3		0.0	0.1	-3.0	0.0	45.1	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	293.4	-60.3	4.4	-18.3	-1.3		0.0	0.1	-3.0	9.2	43.6	
Construction Unit A Construction Max Day	CNEL	123.7	3185	223.8	-58.0	3.8	-13.7	-1.3	-0.15	0.0	0.1	-3.0	0.0	51.5	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	295.8	-60.4	4.4	-21.8	-1.5		0.0	0.1	-3.0	9.2	39.9	
Construction Unit B Max Day	CNEL	123.7	20817	295.8	-60.4	4.4	-21.8	-1.5		0.0	0.1	-3.0	0.0	41.4	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	177.2	-56.0	3.2	-23.3	-0.9		3.2	0.0	0.0	6.7	30.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	183.8	-56.3	3.2	-24.2	-1.1	-0.04	-7.1	0.0	0.0	6.7	19.1	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	167.3	-55.5	3.0	-21.8	-0.6		3.9	0.0	0.0	6.7	36.3	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	175.0	-55.9	3.1	-23.5	-0.9		-6.5	0.0	0.0	6.7	23.8	
Cooling Tower M 512	CNEL	95.7		186.1	-56.4	3.8	-24.6	-0.9		0.0	0.0	0.0	6.7	24.3	
Cooling Tower M 513	CNEL	95.7		186.9	-56.4	3.8	-24.6	-0.9		0.0	0.0	0.0	6.7	24.2	
Cooling Tower M 514	CNEL	95.7		185.4	-56.4	3.8	-24.8	-1.0		0.0	0.0	0.0	6.7	24.0	
Heater # 5-Heater	CNEL	91.1	13	372.3	-62.4	4.8	-23.7	-1.2		0.0	2.8	0.0	6.7	21.1	
Heater # 5-Heater	CNEL	91.1	13	370.5	-62.4	4.8	-23.7	-1.2		0.0	1.5	0.0	6.7	19.8	
Heater # 5-Heater	CNEL	91.1	13	368.6	-62.3	4.8	-24.1	-1.3		0.0	0.0	0.0	6.7	17.9	
Hydro Heater H-402	CNEL	98.1		201.3	-57.1	3.8	-21.2	-0.6	-0.52	0.0	0.0	0.0	6.7	29.3	
Motor & Pump P 56A/B	CNEL	93.7		194.3	-56.8	3.9	-23.5	-1.4	-0.45	0.0	0.7	0.0	6.7	22.8	
Motor & Pump P 120/121	CNEL	96.2	2	174.2	-55.8	3.8	-22.9	-0.7	-0.07	0.0	0.3	0.0	6.7	27.4	
Motor & Pump P 211/212	CNEL	93.7		225.9	-58.1	4.3	-23.3	-1.5	-0.86	0.0	0.1	0.0	6.7	21.0	
Motor & Pump P 215/214	CNEL	94.6		222.4	-57.9	4.3	-23.3	-1.5	-0.83	0.0	2.7	0.0	6.7	24.8	
Motor & Pump P 216	CNEL	98.3		230.1	-58.2	4.2	-23.4	-1.5	-1.02	0.0	0.1	0.0	6.7	25.1	
Motor & Pump P 217/218	CNEL	93.7		224.7	-58.0	4.6	-23.5	-1.5	-0.89	0.0	0.1	0.0	6.7	21.1	
Motor & Pump P 300	CNEL	97.1	2	182.9	-56.2	3.9	-23.1	-0.7		0.0	2.7	0.0	6.7	30.4	
Motor & Pump P 301	CNEL	102.1	2	183.8	-56.3	3.9	-22.9	-0.7		0.0	2.2	0.0	6.7	35.0	
Motor & Pump P 302	CNEL	97.1	2	181.9	-56.2	3.9	-23.0	-0.7		0.0	1.6	0.0	6.7	29.3	
Motor & Pump P 303	CNEL	97.1	2	181.2	-56.2	3.8	-23.1	-0.7		0.0	2.0	0.0	6.7	29.6	
Motor & Pump P 305	CNEL	97.5	2	180.4	-56.1	3.8	-24.0	-0.8		0.0	3.0	0.0	6.7	30.1	
Motor & Pump P 306	CNEL	112.6	4	175.8	-55.9	3.5	-21.4	-0.8		0.0	0.5	0.0	6.7	45.2	
Motor & Pump P 307	CNEL	102.1	2	186.5	-56.4	3.9	-23.0	-0.7		0.0	2.5	0.0	6.7	35.1	
Motor & Pump P 309	CNEL	97.5	2	179.7	-56.1	3.8	-24.0	-0.8		0.0	1.3	0.0	6.7	28.4	
Motor & Pump P 312	CNEL	101.5	2	199.6	-57.0	4.2	-22.5	-0.8	-0.28	0.0	0.9	0.0	6.7	32.7	
Motor & Pump P 313	CNEL	101.5	2	200.7	-57.0	4.3	-22.6	-0.8	-0.28	0.0	1.1	0.0	6.7	32.9	
Motor & Pump P 315	CNEL	102.9	2	205.1	-57.2	4.2	-22.7	-0.8	-0.29	0.0	0.2	0.0	6.7	32.9	
Motor & Pump P 316	CNEL	102.9	2	206.4	-57.3	4.2	-22.7	-0.8	-0.29	0.0	0.2	0.0	6.7	32.9	
Motor & Pump P 317	CNEL	102.9	2	207.7	-57.3	4.1	-22.7	-0.8	-0.30	0.0	0.2	0.0	6.7	32.7	
Motor & Pump P 318	CNEL	100.2	1	203.4	-57.2	4.4	-22.7	-0.8	-0.29	0.0	0.5	0.0	6.7	30.7	
Motor & Pump P 319	CNEL	100.2	1	202.5	-57.1	4.4	-22.6	-0.8	-0.29	0.0	1.9	0.0	6.7	32.3	
Motor & Pump P 327	CNEL	111.2	3	172.8	-55.7	3.7	-22.8	-1.0		0.0	2.7	0.0	6.7	44.8	
Motor & Pump P 328	CNEL	109.9	5	178.6	-56.0	3.6	-23.8	-0.8		0.0	1.0	0.0	6.7	40.5	
Motor & Pump P 329	CNEL	110.2	5	177.2	-56.0	3.6	-24.0	-0.8		0.0	7.2	0.0	6.7	46.8	
Motor & Pump P 451	CNEL	93.7		206.2	-57.3	4.0	-23.6	-1.5	-0.45	0.0	0.1	0.0	6.7	21.6	
Motor & Pump P 453	CNEL	93.7		214.1	-57.6	4.1	-24.7	-1.8		0.0	0.0	0.0	6.7	20.3	
Motor & Pump P 454	CNEL	93.7		206.7	-57.3	4.0	-23.6	-1.5	-0.48	0.0	0.1	0.0	6.7	21.6	
Motor & Pump P 457	CNEL	93.7		215.4	-57.7	4.1	-23.7	-1.5	-0.11	0.0	0.0	0.0	6.7	21.4	
Motor & Pump P 458	CNEL	93.7		205.5	-57.2	4.0	-23.6	-1.5	-0.42	0.0	0.1	0.0	6.7	21.7	
Motor & Pump P 459	CNEL	93.7		205.9	-57.3	4.0	-24.6	-1.8		0.0	0.0	0.0	6.7	20.7	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		174.5	-55.8	3.8	-23.9	-1.3	-0.46	0.0	2.4	0.0	6.7	27.5	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		173.1	-55.8	3.8	-23.9	-1.3	-0.46	0.0	2.7	0.0	6.7	27.9	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		141.8	-54.0	3.4	-24.3	-1.2	-0.11	0.0	3.4	0.0	6.7	29.2	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		141.0	-54.0	3.4	-24.5	-1.3	-0.07	0.0	3.5	0.0	6.7	29.1	
Motor & Pump P 1601 A	CNEL	96.3	2	158.2	-55.0	3.2	-24.0	-1.2		0.0	2.0	0.0	6.7	28.0	
Motor & Pump P 1601 B	CNEL	96.3	2	157.5	-54.9	3.2	-23.8	-1.2		0.0	1.9	0.0	6.7	28.1	
Motor & Pump P 1602 A	CNEL	96.3	2	157.1	-54.9	3.2	-23.9	-1.2		0.0	1.9	0.0	6.7	28.1	
Motor & Pump P 1602 B	CNEL	96.5	2	156.4	-54.9	3.2	-23.9	-1.2		0.0	2.0	0.0	6.7	28.4	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.5	-55.5	3.8	-23.9	-1.3	-0.29	0.0	1.4	0.0	6.7	27.5	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.5	-55.3	3.7	-24.0	-1.3	-0.28	0.0	0.5	0.0	6.7	26.7	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	162.6	-55.2	3.7	-24.3	-1.4	-0.24	0.0	1.0	0.0	6.7	26.8	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	171.6	-55.7	3.8	-23.9	-1.3	-0.46	0.0	3.4	0.0	6.7	29.1	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	170.2	-55.6	3.8	-24.0	-1.4	-0.45	0.0	3.8	0.0	6.7	29.5	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	154.4	-54.8	3.7	-24.1	-1.3	-0.03	0.0	2.2	0.0	6.7	28.6	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	155.8	-54.8	3.7	-24.2	-1.3	-0.12	0.0	2.3	0.0	6.7	28.4	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	158.2	-55.0	3.6	-24.1	-1.3	-0.26	0.0	0.9	0.0	6.7	26.8	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	157.2	-54.9	3.7	-24.5	-1.4	-0.19	0.0	2.4	0.0	6.7	28.1	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	282.0	-60.0	4.6	-16.2	-0.4	-0.06	0.0	0.0	-38.6	0.0	24.0	
Tank Farm Pump 1	CNEL	99.0	3	236.9	-58.5	4.4	-21.3	-1.1		0.0	0.0	0.0	6.7	29.2	
Tank Farm Pump 2	CNEL	99.0	3	252.7	-59.0	4.5	-19.7	-1.1		0.0	0.0	0.0	6.7	30.3	
Tank Farm Pump 3	CNEL	99.0	3	257.5	-59.2	4.5	-19.3	-1.1		0.0	0.0	0.0	6.7	30.6	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	331.5	-61.4	3.8	-12.8	-2.3	-0.03	0.0	0.1	-16.8	0.0	23.0	
XF-1502 Splitter Area 1	CNEL	104.5		160.1	-55.1	2.8	-22.5	-0.8	0.00	-3.0	0.2	0.0	6.7	32.9	
XF-1502 Splitter Area 2	CNEL	104.5		163.1	-55.2	2.8	-22.5	-0.8		-2.9	0.2	0.0	6.7	32.8	
XF-1504 Splitter Area 1	CNEL	104.5		157.5	-54.9	2.8	-22.5	-0.8	-0.01	-2.9	0.2	0.0	6.7	33.0	
XF-1504 Splitter Area 2	CNEL	104.5		160.6	-55.1	2.8	-22.4	-0.8		-2.9	0.1	0.0	6.7	32.9	
XF 304, XF 321	CNEL	110.5	56	189.5	-56.5	2.6	-18.4	-0.3		-1.6	0.0	0.0	6.7	42.9	
XF 313, XF 314	CNEL	113.0	18	175.2	-55.9	2.6	-15.1	-0.4		-2.9	0.3	0.0	6.7	48.3	
XF 335-1, XF 335-2	CNEL	113.4	54	183.2	-56.3	2.6	-15.6	-0.5	-0.02	-2.0	0.1	0.0	6.7	48.5	
XF 503	CNEL	113.0	21	207.8	-57.3	2.8	-21.5	-1.2	-0.51	-2.9	0.0	0.0	6.7	39.0	
XF - 1601	CNEL	96.6		158.7	-55.0	2.8	-15.8	-0.3		-1.2	0.0	0.0	6.7	33.8	
XF - 1602	CNEL	96.6		155.9	-54.9	2.8	-15.8	-0.3		-1.2	0.0	0.0	6.7	34.0	
XF Module 1510	CNEL	108.3		169.5	-55.6	2.8	-22.6	-0.8	-0.20	-3.0	0.1	0.0	6.7	35.7	
XF Module 1519	CNEL	109.0		165.3	-55.4	2.8	-22.7	-0.8	-0.17	-3.0	0.2	0.0	6.7	36.7	
Lakewood NB	CNEL		606								10.4			31.6	
Lakewood SB	CNEL		606								10.6			31.4	
Somerset Ave EB	CNEL		917								4.1			19.0	
Somerset Ave WB	CNEL		917								3.9			19.2	
Downey Ave NB	CNEL		608								7.0			33.6	
Downey Ave SB	CNEL		608								7.1			33.6	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.8			35.1	
Crude Operatoin Truck Truck Traffic	CNEL		520								6.5			31.5	
Receiver MH-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 58.9 dB(A) Ld 7-19 dB(A) Leq,N 50.1 dB(A) Le 19-22 dB(A) CNEL 59.5 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	289.0	-60.2	4.5	-17.7	-1.2	-0.02	0.0	0.1	-10.8	0.0	23.7	
Air Compressor C 1	CNEL	110.0	5	187.3	-56.4	3.9	-23.0	-0.7		0.0	4.0	0.0	6.7	44.5	
Air Compressor Pump	CNEL	100.3		233.5	-58.4	4.2	-24.1	-2.5		0.0	0.4	0.0	6.7	26.7	
Blower F 401	CNEL	113.0		251.6	-59.0	4.0	-18.7	-0.3	-0.30	0.0	0.0	0.0	6.7	45.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	367.0	-62.3	4.7	-22.1	-0.9		0.0	1.1	0.0	6.7	25.8	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	242.1	-58.7	3.6	-22.1	-0.7	-0.66	2.3	0.0	0.0	6.7	35.3	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	235.7	-58.4	3.5	-21.2	-0.8	-0.55	0.0	0.0	0.0	6.7	29.7	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	243.1	-58.7	3.6	-20.2	-0.6	-0.32	2.8	0.0	0.0	6.7	39.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	251.2	-59.0	3.7	-23.4	-0.9	-0.44	-7.5	0.0	0.0	6.7	29.8	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	239.0	-58.6	3.6	-23.4	-0.9	-0.71	-7.6	0.0	0.0	6.7	22.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.7	-59.1	3.7	-23.6	-1.2	-0.32	-7.8	0.0	0.0	6.7	18.7	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	210.8	-57.5	3.8	-17.9	-1.2		0.0	0.1	-3.0	9.2	46.4	
Construciton Control Room Max Day	CNEL	123.7	5461	210.8	-57.5	3.8	-17.9	-1.2		0.0	0.1	-3.0	0.0	48.0	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	470.8	-64.4	4.9	-22.5	-2.3		0.0	0.2	-3.0	0.0	36.6	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	387.7	-62.8	3.9	-11.8	-2.5		0.0	1.8	-3.0	0.0	49.4	
Construction H2 Plant Max Day	CNEL	123.7	9281	164.0	-55.3	3.2	-17.9	-1.0		0.0	0.2	-3.0	0.0	49.9	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	164.0	-55.3	3.2	-17.9	-1.0		0.0	0.2	-3.0	9.2	48.4	
Construction PreTreat Building Max Day	CNEL	123.7	6360	277.6	-59.9	4.3	-19.1	-1.2		0.0	0.2	-3.0	0.0	44.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	277.6	-59.9	4.3	-19.1	-1.2		0.0	0.2	-3.0	9.2	43.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	244.3	-58.7	3.9	-13.5	-1.5	-0.12	0.0	0.1	-3.0	0.0	50.7	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	290.5	-60.3	4.4	-19.1	-1.6		0.0	0.1	-3.0	9.2	42.7	
Construction Unit B Max Day	CNEL	123.7	20817	290.5	-60.3	4.4	-19.1	-1.6		0.0	0.1	-3.0	0.0	44.2	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	189.5	-56.5	3.4	-21.4	-0.7		2.9	0.0	0.0	6.7	32.1	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	197.1	-56.9	3.3	-23.7	-1.0	-0.05	-7.5	0.0	0.0	6.7	18.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	177.1	-56.0	3.0	-21.0	-0.6		3.2	0.0	0.0	6.7	35.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	186.6	-56.4	3.2	-23.4	-0.9		-7.1	0.0	0.0	6.7	22.6	
Cooling Tower M 512	CNEL	95.7		198.5	-56.9	3.9	-24.6	-1.0		0.0	0.0	0.0	6.7	23.8	
Cooling Tower M 513	CNEL	95.7		199.4	-57.0	3.9	-24.8	-1.0		0.0	0.0	0.0	6.7	23.4	
Cooling Tower M 514	CNEL	95.7		197.7	-56.9	3.9	-24.6	-1.0		0.0	0.0	0.0	6.7	23.8	
Heater # 5-Heater	CNEL	91.1	13	364.5	-62.2	4.8	-23.7	-1.2		0.0	3.0	0.0	6.7	21.5	
Heater # 5-Heater	CNEL	91.1	13	362.9	-62.2	4.8	-23.7	-1.2		0.0	2.0	0.0	6.7	20.5	
Heater # 5-Heater	CNEL	91.1	13	361.4	-62.2	4.8	-24.1	-1.2		0.0	0.4	0.0	6.7	18.4	
Hydro Heater H-402	CNEL	98.1		215.7	-57.7	3.9	-19.9	-0.5	-0.47	0.0	0.0	0.0	6.7	30.2	
Motor & Pump P 56A/B	CNEL	93.7		210.1	-57.4	4.0	-23.4	-1.4	-0.58	0.0	0.0	0.0	6.7	21.5	
Motor & Pump P 120/121	CNEL	96.2	2	193.2	-56.7	3.9	-22.6	-0.7	-0.11	0.0	1.0	0.0	6.7	27.6	
Motor & Pump P 211/212	CNEL	93.7		241.5	-58.6	4.4	-23.0	-1.4	-0.99	0.0	1.1	0.0	6.7	21.7	
Motor & Pump P 215/214	CNEL	94.6		238.2	-58.5	4.4	-23.0	-1.4	-0.92	0.0	0.0	0.0	6.7	21.8	
Motor & Pump P 216	CNEL	98.3		246.0	-58.8	4.3	-22.8	-1.4	-0.98	0.0	0.0	0.0	6.7	25.2	
Motor & Pump P 217/218	CNEL	93.7		240.3	-58.6	4.6	-23.1	-1.5	-1.01	0.0	0.1	0.0	6.7	20.8	
Motor & Pump P 300	CNEL	97.1	2	202.4	-57.1	4.1	-22.1	-0.7		0.0	1.9	0.0	6.7	29.8	
Motor & Pump P 301	CNEL	102.1	2	203.2	-57.2	4.1	-22.5	-0.8		0.0	1.6	0.0	6.7	33.9	
Motor & Pump P 302	CNEL	97.1	2	201.6	-57.1	4.0	-22.6	-0.8		0.0	3.7	0.0	6.7	31.0	
Motor & Pump P 303	CNEL	97.1	2	200.9	-57.1	4.0	-22.5	-0.8		0.0	0.9	0.0	6.7	28.3	
Motor & Pump P 305	CNEL	97.5	2	200.2	-57.0	4.0	-23.9	-0.9		0.0	0.5	0.0	6.7	26.9	
Motor & Pump P 306	CNEL	112.6	4	196.1	-56.8	3.6	-22.9	-1.1		0.0	0.1	0.0	6.7	42.2	
Motor & Pump P 307	CNEL	102.1	2	205.7	-57.3	4.1	-22.1	-0.7	0.00	0.0	2.2	0.0	6.7	35.0	
Motor & Pump P 309	CNEL	97.5	2	199.6	-57.0	4.0	-23.9	-0.9		0.0	0.1	0.0	6.7	26.5	
Motor & Pump P 312	CNEL	101.5	2	217.6	-57.7	4.3	-22.5	-0.8	-0.27	0.0	0.0	0.0	6.7	31.2	
Motor & Pump P 313	CNEL	101.5	2	218.7	-57.8	4.4	-22.5	-0.8	-0.27	0.0	0.7	0.0	6.7	31.9	
Motor & Pump P 315	CNEL	102.9	2	222.7	-57.9	4.3	-22.9	-0.9	-0.28	0.0	0.0	0.0	6.7	31.9	
Motor & Pump P 316	CNEL	102.9	2	223.9	-58.0	4.3	-22.9	-0.9	-0.28	0.0	0.0	0.0	6.7	31.9	
Motor & Pump P 317	CNEL	102.9	2	225.1	-58.0	4.2	-22.8	-0.9	-0.28	0.0	0.0	0.0	6.7	31.8	
Motor & Pump P 318	CNEL	100.2	1	221.1	-57.9	4.4	-23.0	-0.9	-0.28	0.0	1.7	0.0	6.7	31.1	
Motor & Pump P 319	CNEL	100.2	1	220.2	-57.8	4.4	-22.5	-0.8	-0.28	0.0	1.0	0.0	6.7	30.8	
Motor & Pump P 327	CNEL	111.2	3	193.4	-56.7	3.9	-24.4	-1.4		0.0	2.3	0.0	6.7	41.5	
Motor & Pump P 328	CNEL	109.9	5	198.6	-57.0	3.8	-23.7	-0.9		0.0	0.2	0.0	6.7	39.0	
Motor & Pump P 329	CNEL	110.2	5	197.3	-56.9	3.7	-23.9	-0.8		0.0	0.3	0.0	6.7	39.3	
Motor & Pump P 451	CNEL	93.7		220.1	-57.8	4.1	-23.1	-1.4	-0.30	0.0	0.0	0.0	6.7	21.8	
Motor & Pump P 453	CNEL	93.7		227.3	-58.1	4.2	-23.3	-1.4		0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 454	CNEL	93.7		220.8	-57.9	4.1	-23.1	-1.4	-0.34	0.0	0.0	0.0	6.7	21.8	
Motor & Pump P 457	CNEL	93.7		228.5	-58.2	4.2	-23.2	-1.4		0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 458	CNEL	93.7		219.4	-57.8	4.1	-23.1	-1.4	-0.26	0.0	0.0	0.0	6.7	21.9	
Motor & Pump P 459	CNEL	93.7		220.0	-57.8	4.1	-23.1	-1.4	-0.37	0.0	0.0	0.0	6.7	21.8	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		189.1	-56.5	3.9	-24.6	-1.6	-0.09	0.0	2.4	0.0	6.7	26.4	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		187.9	-56.5	3.9	-24.6	-1.6	-0.08	0.0	2.4	0.0	6.7	26.4	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		158.2	-55.0	3.6	-24.4	-1.4	-0.12	0.0	1.6	0.0	6.7	26.4	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		157.5	-54.9	3.6	-24.4	-1.4	-0.08	0.0	0.1	0.0	6.7	25.1	
Motor & Pump P 1601 A	CNEL	96.3	2	170.5	-55.6	3.4	-23.9	-1.3		0.0	2.1	0.0	6.7	27.6	
Motor & Pump P 1601 B	CNEL	96.3	2	169.6	-55.6	3.4	-23.9	-1.3		0.0	2.1	0.0	6.7	27.6	
Motor & Pump P 1602 A	CNEL	96.3	2	169.1	-55.6	3.4	-23.9	-1.3		0.0	2.1	0.0	6.7	27.7	
Motor & Pump P 1602 B	CNEL	96.5	2	168.2	-55.5	3.3	-23.9	-1.3		0.0	2.1	0.0	6.7	27.9	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	182.4	-56.2	3.9	-23.7	-1.3	-0.25	0.0	0.0	0.0	6.7	25.7	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	178.8	-56.0	3.9	-23.7	-1.3	-0.25	0.0	0.0	0.0	6.7	25.9	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	177.0	-56.0	3.9	-23.7	-1.3	-0.25	0.0	0.0	0.0	6.7	26.0	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	186.4	-56.4	3.9	-23.8	-1.4	-0.38	0.0	2.0	0.0	6.7	27.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	185.1	-56.3	3.9	-23.7	-1.3	-0.41	0.0	1.2	0.0	6.7	26.6	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	168.6	-55.5	3.8	-23.8	-1.3	-0.03	0.0	1.6	0.0	6.7	27.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	170.2	-55.6	3.8	-23.8	-1.3	-0.10	0.0	1.6	0.0	6.7	27.6	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	173.0	-55.8	3.8	-23.9	-1.3	-0.23	0.0	1.7	0.0	6.7	27.3	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.7	-55.7	3.8	-24.6	-1.5	-0.20	0.0	2.0	0.0	6.7	26.8	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	291.9	-60.3	4.6	-16.3	-0.5	-0.07	0.0	0.0	-38.6	0.0	23.6	
Tank Farm Pump 1	CNEL	99.0	3	221.0	-57.9	4.3	-21.0	-1.0		0.0	0.0	0.0	6.7	30.0	
Tank Farm Pump 2	CNEL	99.0	3	235.8	-58.4	4.4	-22.0	-1.2		0.0	0.0	0.0	6.7	28.4	
Tank Farm Pump 3	CNEL	99.0	3	240.3	-58.6	4.4	-22.0	-1.2		0.0	0.0	0.0	6.7	28.3	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	347.5	-61.8	3.9	-12.4	-2.6	-0.03	0.0	0.3	-16.8	0.0	22.9	
XF-1502 Splitter Area 1	CNEL	104.5		174.4	-55.8	2.8	-20.4	-0.7	0.00	-2.9	0.0	0.0	6.7	34.1	
XF-1502 Splitter Area 2	CNEL	104.5		177.2	-56.0	2.8	-20.4	-0.7		-2.9	0.0	0.0	6.7	34.0	
XF-1504 Splitter Area 1	CNEL	104.5		171.5	-55.7	2.8	-20.5	-0.7	-0.01	-2.9	0.0	0.0	6.7	34.2	
XF-1504 Splitter Area 2	CNEL	104.5		174.3	-55.8	2.8	-20.5	-0.7		-2.9	0.0	0.0	6.7	34.1	
XF 304, XF 321	CNEL	110.5	56	209.1	-57.4	2.6	-18.1	-0.4		-1.6	0.0	0.0	6.7	42.4	
XF 313, XF 314	CNEL	113.0	18	196.2	-56.8	2.5	-14.5	-0.5		-2.9	0.2	0.0	6.7	47.6	
XF 335-1, XF 335-2	CNEL	113.4	54	203.4	-57.2	2.6	-18.7	-0.5	0.00	-1.7	0.0	0.0	6.7	44.6	
XF 503	CNEL	113.0	21	223.9	-58.0	2.8	-20.9	-1.2	-0.50	-2.9	0.0	0.0	6.7	39.0	
XF - 1601	CNEL	96.6		170.6	-55.6	2.7	-13.9	-0.3		-1.3	0.0	0.0	6.7	35.0	
XF - 1602	CNEL	96.6		167.2	-55.5	2.8	-13.9	-0.3		-1.2	0.0	0.0	6.7	35.1	
XF Module 1510	CNEL	108.3		183.9	-56.3	2.8	-20.7	-0.7	-0.24	-2.9	0.0	0.0	6.7	36.9	
XF Module 1519	CNEL	109.0		179.9	-56.1	2.8	-24.3	-1.2	-0.02	-3.9	0.0	0.0	6.7	32.9	
Lakewood NB	CNEL		606								10.4			31.0	
Lakewood SB	CNEL		606								10.6			30.9	
Somerset Ave EB	CNEL		917								4.3			21.0	
Somerset Ave WB	CNEL		917								4.3			21.2	
Downey Ave NB	CNEL		608								6.1			32.1	
Downey Ave SB	CNEL		608								6.2			32.2	
Construction / Renewable Fuels Truck Tr	CNEL		1368								4.3			36.7	
Crude Operatoin Truck Truck Traffic	CNEL		520								10.9			31.3	
Receiver MH-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.0 dB(A) Ld 7-19 dB(A) Leq,N 50.6 dB(A) Le 19-22 dB(A) CNEL 59.8 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	297.8	-60.5	4.6	-20.9	-1.2	-0.04	0.0	0.0	-10.8	0.0	20.1	
Air Compressor C 1	CNEL	110.0	5	207.4	-57.3	4.0	-22.9	-0.7		0.0	4.5	0.0	6.7	44.3	
Air Compressor Pump	CNEL	100.3		237.9	-58.5	4.3	-24.1	-2.5		0.0	0.0	0.0	6.7	26.0	
Blower F 401	CNEL	113.0		265.8	-59.5	4.0	-18.4	-0.3	-0.28	0.0	0.0	0.0	6.7	45.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	360.6	-62.1	4.7	-18.7	-0.7		0.0	1.2	0.0	6.7	29.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	259.5	-59.3	3.7	-22.2	-0.8	-0.61	2.1	0.0	0.0	6.7	34.4	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	253.2	-59.1	3.7	-20.4	-0.8	-0.58	0.0	0.0	0.0	6.7	30.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	261.1	-59.3	3.7	-19.0	-0.5	-0.30	3.0	0.0	0.0	6.7	40.7	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	268.8	-59.6	3.8	-23.2	-0.9	-0.60	-7.3	0.0	0.0	6.7	29.6	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	256.4	-59.2	3.7	-23.1	-0.9	-0.78	-7.3	0.0	0.0	6.7	22.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	273.9	-59.7	3.8	-23.3	-1.2	-0.37	-7.8	0.0	0.0	6.7	18.5	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	204.1	-57.2	3.7	-14.3	-1.1		0.0	0.1	-3.0	9.2	50.4	
Construciton Control Room Max Day	CNEL	123.7	5461	204.1	-57.2	3.7	-14.3	-1.1		0.0	0.1	-3.0	0.0	51.9	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	451.7	-64.1	4.8	-22.8	-2.3		0.0	0.2	-3.0	0.0	36.5	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	365.1	-62.2	3.9	-13.5	-2.0		0.0	1.6	-3.0	0.0	48.5	
Construction H2 Plant Max Day	CNEL	123.7	9281	169.0	-55.6	3.3	-22.1	-1.3		0.0	0.6	-3.0	0.0	45.6	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	169.0	-55.6	3.3	-22.1	-1.3		0.0	0.6	-3.0	9.2	44.1	
Construction PreTreat Building Max Day	CNEL	123.7	6360	262.9	-59.4	4.2	-20.6	-1.2		0.0	0.2	-3.0	0.0	43.8	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	262.9	-59.4	4.2	-20.6	-1.2		0.0	0.2	-3.0	9.2	42.2	
Construction Unit A Construction Max Day	CNEL	123.7	3185	264.9	-59.5	4.0	-14.8	-1.7	-0.07	0.0	0.1	-3.0	0.0	48.8	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	286.6	-60.1	4.3	-14.9	-1.4		0.0	0.2	-3.0	9.2	47.2	
Construction Unit B Max Day	CNEL	123.7	20817	286.6	-60.1	4.3	-14.9	-1.4		0.0	0.2	-3.0	0.0	48.7	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	203.3	-57.2	3.4	-21.1	-0.7		2.6	0.0	0.0	6.7	31.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	211.8	-57.5	3.5	-23.5	-1.0	-0.01	-7.7	0.0	0.0	6.7	18.3	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	188.8	-56.5	3.0	-9.8	-0.6		2.9	0.0	0.0	6.7	46.3	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	199.8	-57.0	3.2	-23.4	-1.0		-7.6	2.3	0.0	6.7	23.9	
Cooling Tower M 512	CNEL	95.7		212.4	-57.5	4.0	-24.5	-1.0		0.0	0.0	0.0	6.7	23.3	
Cooling Tower M 513	CNEL	95.7		213.4	-57.6	4.0	-24.5	-1.0		0.0	0.0	0.0	6.7	23.3	
Cooling Tower M 514	CNEL	95.7		211.5	-57.5	4.0	-24.5	-1.0		0.0	0.1	0.0	6.7	23.4	
Heater # 5-Heater	CNEL	91.1	13	357.8	-62.1	4.7	-22.6	-1.0		0.0	4.3	0.0	6.7	24.1	
Heater # 5-Heater	CNEL	91.1	13	356.5	-62.0	4.7	-22.7	-1.0		0.0	3.2	0.0	6.7	23.1	
Heater # 5-Heater	CNEL	91.1	13	355.3	-62.0	4.7	-23.6	-1.1		0.0	0.1	0.0	6.7	18.9	
Hydro Heater H-402	CNEL	98.1		231.2	-58.3	4.0	-19.1	-0.5	-0.41	0.0	0.0	0.0	6.7	30.5	
Motor & Pump P 56A/B	CNEL	93.7		226.8	-58.1	4.1	-22.8	-1.4	-0.55	0.0	0.0	0.0	6.7	21.6	
Motor & Pump P 120/121	CNEL	96.2	2	212.7	-57.5	4.1	-22.8	-0.8	-0.15	0.0	0.3	0.0	6.7	25.8	
Motor & Pump P 211/212	CNEL	93.7		257.8	-59.2	4.4	-22.3	-1.4	-1.12	0.0	0.0	0.0	6.7	20.8	
Motor & Pump P 215/214	CNEL	94.6		254.8	-59.1	4.4	-22.3	-1.4	-1.11	0.0	3.5	0.0	6.7	25.3	
Motor & Pump P 216	CNEL	98.3		262.6	-59.4	4.4	-22.1	-1.4	-1.29	0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 217/218	CNEL	93.7		256.8	-59.2	4.7	-22.4	-1.4	-1.12	0.0	0.0	0.0	6.7	20.9	
Motor & Pump P 300	CNEL	97.1	2	222.3	-57.9	4.2	-22.2	-0.8		0.0	1.2	0.0	6.7	28.1	
Motor & Pump P 301	CNEL	102.1	2	223.1	-58.0	4.2	-22.0	-0.8		0.0	1.2	0.0	6.7	33.4	
Motor & Pump P 302	CNEL	97.1	2	221.6	-57.9	4.2	-22.3	-0.8		0.0	1.0	0.0	6.7	27.9	
Motor & Pump P 303	CNEL	97.1	2	221.0	-57.9	4.1	-22.4	-0.8		0.0	2.4	0.0	6.7	29.1	
Motor & Pump P 305	CNEL	97.5	2	220.4	-57.9	4.1	-23.3	-0.9		0.0	0.1	0.0	6.7	26.3	
Motor & Pump P 306	CNEL	112.6	4	216.6	-57.7	3.8	-22.9	-1.2		0.0	0.2	0.0	6.7	41.4	
Motor & Pump P 307	CNEL	102.1	2	225.3	-58.0	4.2	-22.5	-0.8	-0.07	0.0	2.1	0.0	6.7	33.6	
Motor & Pump P 309	CNEL	97.5	2	219.8	-57.8	4.1	-23.9	-0.9		0.0	0.1	0.0	6.7	25.7	
Motor & Pump P 312	CNEL	101.5	2	236.2	-58.5	4.4	-22.7	-0.9	-0.26	0.0	0.0	0.0	6.7	30.3	
Motor & Pump P 313	CNEL	101.5	2	237.2	-58.5	4.5	-22.7	-0.9	-0.26	0.0	0.7	0.0	6.7	31.0	
Motor & Pump P 315	CNEL	102.9	2	240.9	-58.6	4.3	-22.1	-0.9	-0.27	0.0	0.2	0.0	6.7	32.3	
Motor & Pump P 316	CNEL	102.9	2	242.1	-58.7	4.4	-22.1	-0.9	-0.27	0.0	0.0	0.0	6.7	32.1	
Motor & Pump P 317	CNEL	102.9	2	243.1	-58.7	4.3	-22.3	-0.9	-0.31	0.0	0.0	0.0	6.7	31.7	
Motor & Pump P 318	CNEL	100.2	1	239.4	-58.6	4.5	-22.3	-0.9	-0.27	0.0	1.3	0.0	6.7	30.7	
Motor & Pump P 319	CNEL	100.2	1	238.6	-58.5	4.5	-22.3	-0.9	-0.27	0.0	1.0	0.0	6.7	30.5	
Motor & Pump P 327	CNEL	111.2	3	214.3	-57.6	4.0	-24.4	-1.5		0.0	2.0	0.0	6.7	40.4	
Motor & Pump P 328	CNEL	109.9	5	218.9	-57.8	3.9	-23.7	-0.9		0.0	0.1	0.0	6.7	38.2	
Motor & Pump P 329	CNEL	110.2	5	217.7	-57.7	3.9	-23.9	-0.9		0.0	0.1	0.0	6.7	38.3	
Motor & Pump P 451	CNEL	93.7		235.2	-58.4	4.2	-24.6	-2.0		0.0	0.0	0.0	6.7	19.5	
Motor & Pump P 453	CNEL	93.7		241.7	-58.7	4.3	-24.4	-1.9		0.0	0.5	0.0	6.7	20.1	
Motor & Pump P 454	CNEL	93.7		236.0	-58.4	4.2	-22.6	-1.4	-0.21	0.0	0.0	0.0	6.7	21.9	
Motor & Pump P 457	CNEL	93.7		242.8	-58.7	4.3	-22.7	-1.4		0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 458	CNEL	93.7		234.4	-58.4	4.2	-24.6	-1.9		0.0	0.1	0.0	6.7	19.7	
Motor & Pump P 459	CNEL	93.7		235.3	-58.4	4.2	-22.6	-1.4	-0.24	0.0	0.0	0.0	6.7	21.9	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		204.9	-57.2	4.1	-23.0	-1.3	-0.39	0.0	0.6	0.0	6.7	25.6	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		203.8	-57.2	4.0	-23.0	-1.3	-0.39	0.0	0.6	0.0	6.7	25.6	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		175.8	-55.9	3.8	-24.3	-1.5	-0.13	0.0	0.0	0.0	6.7	24.1	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		175.1	-55.9	3.8	-24.3	-1.5	-0.09	0.0	0.0	0.0	6.7	24.1	
Motor & Pump P 1601 A	CNEL	96.3	2	184.5	-56.3	3.5	-23.5	-1.3		0.0	10.7	0.0	6.7	36.0	
Motor & Pump P 1601 B	CNEL	96.3	2	183.5	-56.3	3.5	-23.5	-1.3		0.0	10.7	0.0	6.7	36.1	
Motor & Pump P 1602 A	CNEL	96.3	2	182.8	-56.2	3.5	-23.6	-1.3		0.0	10.7	0.0	6.7	36.1	
Motor & Pump P 1602 B	CNEL	96.5	2	181.8	-56.2	3.5	-23.7	-1.3		0.0	10.8	0.0	6.7	36.3	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	197.7	-56.9	4.1	-23.3	-1.3	-0.23	0.0	0.0	0.0	6.7	25.6	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.4	-56.8	4.0	-23.2	-1.3	-0.23	0.0	0.6	0.0	6.7	26.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	192.8	-56.7	4.0	-23.2	-1.3	-0.23	0.0	2.0	0.0	6.7	27.8	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	202.4	-57.1	4.0	-23.9	-1.5	-0.24	0.0	1.7	0.0	6.7	26.4	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	201.2	-57.1	4.0	-23.8	-1.5	-0.27	0.0	2.0	0.0	6.7	26.8	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	184.3	-56.3	3.9	-23.4	-1.3	-0.03	0.0	1.7	0.0	6.7	27.6	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	186.0	-56.4	4.0	-23.3	-1.3	-0.09	0.0	2.1	0.0	6.7	27.9	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	189.0	-56.5	3.9	-23.9	-1.4	-0.20	0.0	1.8	0.0	6.7	26.7	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	187.7	-56.5	4.0	-24.1	-1.5	-0.18	0.0	2.2	0.0	6.7	26.9	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	302.4	-60.6	4.7	-18.7	-0.4	-0.13	0.0	0.0	-38.6	0.0	21.0	
Tank Farm Pump 1	CNEL	99.0	3	206.2	-57.3	4.2	-22.7	-1.1		0.0	0.4	0.0	6.7	29.2	
Tank Farm Pump 2	CNEL	99.0	3	219.8	-57.8	4.3	-22.1	-1.1		0.0	0.0	0.0	6.7	28.9	
Tank Farm Pump 3	CNEL	99.0	3	224.0	-58.0	4.3	-22.1	-1.1		0.0	0.0	0.0	6.7	28.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	363.9	-62.2	3.9	-13.1	-2.8	-0.02	0.0	0.5	-16.8	0.0	21.9	
XF-1502 Splitter Area 1	CNEL	104.5		190.1	-56.6	2.8	-20.0	-0.7	0.00	-2.9	0.0	0.0	6.7	33.7	
XF-1502 Splitter Area 2	CNEL	104.5		192.7	-56.7	2.8	-19.9	-0.7		-2.9	0.0	0.0	6.7	33.7	
XF-1504 Splitter Area 1	CNEL	104.5		186.9	-56.4	2.8	-20.0	-0.7	-0.01	-2.9	0.0	0.0	6.7	33.9	
XF-1504 Splitter Area 2	CNEL	104.5		189.5	-56.5	2.8	-20.2	-0.7		-2.9	0.0	0.0	6.7	33.6	
XF 304, XF 321	CNEL	110.5	56	229.1	-58.2	2.6	-17.5	-0.4		-1.6	0.0	0.0	6.7	42.1	
XF 313, XF 314	CNEL	113.0	18	217.2	-57.7	2.5	-19.8	-0.5		-2.7	0.0	0.0	6.7	41.5	
XF 335-1, XF 335-2	CNEL	113.4	54	223.8	-58.0	2.6	-18.5	-0.5	0.00	-1.7	0.0	0.0	6.7	43.9	
XF 503	CNEL	113.0	21	240.9	-58.6	2.8	-20.0	-1.0	-0.50	-2.9	0.0	0.0	6.7	39.5	
XF - 1601	CNEL	96.6		184.3	-56.3	2.7	-13.3	-0.3		-1.3	0.0	0.0	6.7	34.8	
XF - 1602	CNEL	96.6		180.5	-56.1	2.7	-13.1	-0.3		-1.3	0.0	0.0	6.7	35.2	
XF Module 1510	CNEL	108.3		199.5	-57.0	2.8	-20.3	-0.8	-0.25	-2.9	0.0	0.0	6.7	36.5	
XF Module 1519	CNEL	109.0		195.9	-56.8	2.8	-20.4	-0.8	-0.25	-2.9	0.1	0.0	6.7	37.4	
Lakewood NB	CNEL		606								12.7			33.4	
Lakewood SB	CNEL		606								12.9			33.3	
Somerset Ave EB	CNEL		917								3.1			22.5	
Somerset Ave WB	CNEL		917								3.0			22.7	
Downey Ave NB	CNEL		608								6.2			31.4	
Downey Ave SB	CNEL		608								6.4			31.6	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.2			37.0	
Crude Operatoin Truck Truck Traffic	CNEL		520								12.7			33.0	
Receiver MH-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.9 dB(A) Ld 7-19 dB(A) Leq,N 50.8 dB(A) Le 19-22 dB(A) CNEL 61.0 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	305.5	-60.7	4.6	-18.4	-1.4	-0.02	0.0	0.0	-10.8	0.0	22.3	
Air Compressor C 1	CNEL	110.0	5	223.1	-58.0	4.1	-22.8	-0.7		0.0	4.7	0.0	6.7	44.1	
Air Compressor Pump	CNEL	100.3		242.9	-58.7	4.3	-24.0	-2.5		0.0	0.0	0.0	6.7	26.1	
Blower F 401	CNEL	113.0		277.5	-59.9	4.1	-19.1	-0.4	-0.26	0.0	0.0	0.0	6.7	44.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	356.9	-62.0	4.7	-18.6	-0.7		0.0	1.6	0.0	6.7	30.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	273.4	-59.7	3.8	-22.3	-0.8	-0.73	1.9	0.0	0.0	6.7	33.6	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	267.1	-59.5	3.8	-20.2	-0.8	-0.59	0.0	0.0	0.0	6.7	29.8	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	275.3	-59.8	3.8	-18.7	-0.6	-0.30	3.1	0.0	0.0	6.7	40.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	282.8	-60.0	3.9	-23.1	-0.9	-0.55	-7.1	0.0	0.0	6.7	29.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	270.3	-59.6	3.8	-23.3	-0.9	-0.89	-7.2	0.0	0.0	6.7	22.3	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	288.2	-60.2	3.9	-23.3	-1.2	-0.45	-7.8	0.0	0.0	6.7	18.0	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	200.8	-57.0	3.7	-13.7	-1.1		0.0	0.1	-3.0	9.2	51.1	
Construciton Control Room Max Day	CNEL	123.7	5461	200.8	-57.0	3.7	-13.7	-1.1		0.0	0.1	-3.0	0.0	52.6	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	437.7	-63.8	4.8	-22.7	-2.2		0.0	0.6	-3.0	0.0	37.4	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	348.1	-61.8	3.9	-7.0	-3.2		0.0	2.2	-3.0	0.0	54.9	
Construction H2 Plant Max Day	CNEL	123.7	9281	175.0	-55.9	3.3	-20.4	-1.2		0.0	0.1	-3.0	0.0	46.8	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	175.0	-55.9	3.3	-20.4	-1.2		0.0	0.1	-3.0	9.2	45.2	
Construction PreTreat Building Max Day	CNEL	123.7	6360	252.9	-59.0	4.1	-20.7	-1.3		0.0	0.2	-3.0	0.0	43.9	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	252.9	-59.0	4.1	-20.7	-1.3		0.0	0.2	-3.0	9.2	42.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	280.8	-60.0	4.1	-15.9	-1.8	-0.09	0.0	0.1	-3.0	0.0	47.1	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	285.0	-60.1	4.3	-13.9	-1.4		0.0	0.2	-3.0	9.2	48.3	
Construction Unit B Max Day	CNEL	123.7	20817	285.0	-60.1	4.3	-13.9	-1.4		0.0	0.2	-3.0	0.0	49.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	215.0	-57.6	3.5	-21.5	-0.8		2.5	0.0	0.0	6.7	30.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	224.0	-58.0	3.5	-23.9	-1.2	0.00	-7.7	2.1	0.0	6.7	19.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	199.2	-57.0	3.1	-21.0	-0.7		2.7	0.0	0.0	6.7	34.4	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	211.2	-57.5	3.3	-23.6	-1.1		-7.7	3.9	0.0	6.7	24.7	
Cooling Tower M 512	CNEL	95.7		224.1	-58.0	4.1	-24.5	-1.1		0.0	0.1	0.0	6.7	22.9	
Cooling Tower M 513	CNEL	95.7		225.2	-58.0	4.1	-24.5	-1.1		0.0	0.0	0.0	6.7	22.8	
Cooling Tower M 514	CNEL	95.7		223.1	-58.0	4.1	-24.5	-1.1		0.0	0.0	0.0	6.7	22.9	
Heater # 5-Heater	CNEL	91.1	13	354.0	-62.0	4.7	-22.6	-1.0		0.0	4.5	0.0	6.7	24.5	
Heater # 5-Heater	CNEL	91.1	13	352.9	-61.9	4.7	-22.6	-1.0		0.0	4.1	0.0	6.7	24.1	
Heater # 5-Heater	CNEL	91.1	13	351.9	-61.9	4.7	-23.5	-1.1		0.0	0.7	0.0	6.7	19.7	
Hydro Heater H-402	CNEL	98.1		243.9	-58.7	4.1	-19.6	-0.5	-0.33	0.0	0.0	0.0	6.7	29.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 56A/B	CNEL	93.7		240.3	-58.6	4.2	-22.8	-1.4	-0.53	0.0	0.0	0.0	6.7	21.2	
Motor & Pump P 120/121	CNEL	96.2	2	228.0	-58.2	4.2	-22.8	-0.9	-0.18	0.0	0.1	0.0	6.7	25.1	
Motor & Pump P 211/212	CNEL	93.7		271.0	-59.7	4.5	-24.4	-2.0	-0.42	0.0	1.4	0.0	6.7	19.7	
Motor & Pump P 215/214	CNEL	94.6		268.1	-59.6	4.5	-22.1	-1.4	-1.08	0.0	3.4	0.0	6.7	25.1	
Motor & Pump P 216	CNEL	98.3		276.0	-59.8	4.4	-21.9	-1.4	-1.25	0.0	0.0	0.0	6.7	25.0	
Motor & Pump P 217/218	CNEL	93.7		270.0	-59.6	4.7	-24.5	-2.1	-0.62	0.0	0.0	0.0	6.7	18.3	
Motor & Pump P 300	CNEL	97.1	2	237.9	-58.5	4.3	-22.7	-0.9		0.0	0.9	0.0	6.7	26.8	
Motor & Pump P 301	CNEL	102.1	2	238.6	-58.5	4.3	-22.3	-0.9		0.0	1.1	0.0	6.7	32.4	
Motor & Pump P 302	CNEL	97.1	2	237.1	-58.5	4.3	-20.6	-0.8		0.0	0.0	0.0	6.7	28.2	
Motor & Pump P 303	CNEL	97.1	2	236.6	-58.5	4.2	-22.0	-0.8		0.0	3.0	0.0	6.7	29.6	
Motor & Pump P 305	CNEL	97.5	2	236.0	-58.5	4.2	-23.0	-0.9		0.0	0.1	0.0	6.7	26.1	
Motor & Pump P 306	CNEL	112.6	4	232.5	-58.3	3.9	-22.8	-1.2		0.0	0.2	0.0	6.7	41.0	
Motor & Pump P 307	CNEL	102.1	2	240.6	-58.6	4.3	-22.4	-0.9	-0.12	0.0	2.1	0.0	6.7	33.1	
Motor & Pump P 309	CNEL	97.5	2	235.5	-58.4	4.2	-23.7	-1.0		0.0	0.1	0.0	6.7	25.4	
Motor & Pump P 312	CNEL	101.5	2	250.9	-59.0	4.5	-22.4	-0.9	-0.26	0.0	0.0	0.0	6.7	30.2	
Motor & Pump P 313	CNEL	101.5	2	251.8	-59.0	4.5	-22.4	-0.9	-0.26	0.0	0.6	0.0	6.7	30.7	
Motor & Pump P 315	CNEL	102.9	2	255.4	-59.1	4.4	-22.2	-0.9	-0.27	0.0	0.7	0.0	6.7	32.2	
Motor & Pump P 316	CNEL	102.9	2	256.4	-59.2	4.4	-22.2	-0.9	-0.32	0.0	0.0	0.0	6.7	31.4	
Motor & Pump P 317	CNEL	102.9	2	257.4	-59.2	4.4	-21.7	-0.9	-0.38	0.0	0.0	0.0	6.7	31.8	
Motor & Pump P 318	CNEL	100.2	1	253.9	-59.1	4.6	-22.4	-0.9	-0.29	0.0	1.4	0.0	6.7	30.2	
Motor & Pump P 319	CNEL	100.2	1	253.1	-59.1	4.6	-22.4	-0.9	-0.26	0.0	1.0	0.0	6.7	29.9	
Motor & Pump P 327	CNEL	111.2	3	230.4	-58.2	4.1	-24.4	-1.6		0.0	2.2	0.0	6.7	40.0	
Motor & Pump P 328	CNEL	109.9	5	234.6	-58.4	4.0	-23.4	-0.9		0.0	0.2	0.0	6.7	38.1	
Motor & Pump P 329	CNEL	110.2	5	233.5	-58.4	4.0	-23.8	-0.9		0.0	0.2	0.0	6.7	37.9	
Motor & Pump P 451	CNEL	93.7		247.6	-58.9	4.3	-22.7	-1.4	-0.08	0.0	0.5	0.0	6.7	22.1	
Motor & Pump P 453	CNEL	93.7		253.6	-59.1	4.3	-22.8	-1.5		0.0	0.3	0.0	6.7	21.6	
Motor & Pump P 454	CNEL	93.7		248.4	-58.9	4.3	-24.6	-2.0		0.0	0.0	0.0	6.7	19.0	
Motor & Pump P 457	CNEL	93.7		254.6	-59.1	4.3	-22.7	-1.5		0.0	0.0	0.0	6.7	21.3	
Motor & Pump P 458	CNEL	93.7		246.8	-58.8	4.3	-22.7	-1.4	-0.05	0.0	0.1	0.0	6.7	21.7	
Motor & Pump P 459	CNEL	93.7		247.8	-58.9	4.3	-24.6	-2.0		0.0	0.0	0.0	6.7	19.1	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		217.9	-57.8	4.2	-23.1	-1.4	-0.37	0.0	1.9	0.0	6.7	26.3	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		216.9	-57.7	4.2	-23.0	-1.4	-0.37	0.0	1.8	0.0	6.7	26.4	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		189.9	-56.6	3.9	-24.3	-1.5	-0.14	0.0	0.1	0.0	6.7	23.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		189.3	-56.5	3.9	-24.3	-1.5	-0.10	0.0	0.1	0.0	6.7	23.6	
Motor & Pump P 1601 A	CNEL	96.3	2	196.4	-56.9	3.7	-23.6	-1.4		0.0	2.2	0.0	6.7	27.0	
Motor & Pump P 1601 B	CNEL	96.3	2	195.3	-56.8	3.7	-23.7	-1.4		0.0	2.2	0.0	6.7	27.0	
Motor & Pump P 1602 A	CNEL	96.3	2	194.6	-56.8	3.7	-23.7	-1.4		0.0	2.2	0.0	6.7	27.0	
Motor & Pump P 1602 B	CNEL	96.5	2	193.5	-56.7	3.7	-23.8	-1.4		0.0	0.3	0.0	6.7	25.1	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	210.4	-57.5	4.2	-23.4	-1.4	-0.22	0.0	0.0	0.0	6.7	24.9	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	207.3	-57.3	4.1	-23.4	-1.4	-0.22	0.0	1.2	0.0	6.7	26.2	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	205.8	-57.3	4.1	-23.4	-1.4	-0.22	0.0	1.8	0.0	6.7	27.0	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	215.5	-57.7	4.1	-10.5	-1.2	-0.37	0.0	0.1	0.0	6.7	37.9	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	214.4	-57.6	4.1	-24.2	-1.7	-0.18	0.0	0.5	0.0	6.7	24.4	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	197.2	-56.9	4.1	-23.5	-1.4	-0.03	0.0	1.7	0.0	6.7	26.9	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	199.0	-57.0	4.1	-13.1	-1.1	-0.09	0.0	0.2	0.0	6.7	36.0	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	202.2	-57.1	4.1	-24.3	-1.6	-0.19	0.0	2.1	0.0	6.7	25.9	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	200.8	-57.0	4.1	-14.0	-1.1	-0.15	0.0	0.2	0.0	6.7	35.0	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	311.1	-60.9	4.7	-15.5	-0.6	-0.06	0.0	0.0	-38.6	0.0	23.9	
Tank Farm Pump 1	CNEL	99.0	3	196.3	-56.9	4.1	-23.3	-1.1		0.0	0.0	0.0	6.7	28.5	
Tank Farm Pump 2	CNEL	99.0	3	208.8	-57.4	4.2	-22.7	-1.1		0.0	0.3	0.0	6.7	29.0	
Tank Farm Pump 3	CNEL	99.0	3	212.7	-57.5	4.2	-22.7	-1.1		0.0	0.0	0.0	6.7	28.6	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	377.0	-62.5	4.0	-14.7	-2.3	-0.02	0.0	0.1	-16.8	0.0	20.1	
XF-1502 Splitter Area 1	CNEL	104.5		203.1	-57.1	2.8	-19.5	-0.8	0.00	-2.9	0.0	0.0	6.7	33.6	
XF-1502 Splitter Area 2	CNEL	104.5		205.5	-57.2	2.8	-19.5	-0.8		-2.9	0.0	0.0	6.7	33.5	
XF-1504 Splitter Area 1	CNEL	104.5		199.7	-57.0	2.8	-19.7	-0.8	-0.01	-2.9	0.0	0.0	6.7	33.6	
XF-1504 Splitter Area 2	CNEL	104.5		202.1	-57.1	2.8	-19.7	-0.8		-2.9	0.0	0.0	6.7	33.4	
XF 304, XF 321	CNEL	110.5	56	244.6	-58.8	2.5	-17.1	-0.4		-1.6	0.0	0.0	6.7	41.8	
XF 313, XF 314	CNEL	113.0	18	233.4	-58.4	2.5	-19.5	-0.6		-2.7	0.0	0.0	6.7	41.0	
XF 335-1, XF 335-2	CNEL	113.4	54	239.7	-58.6	2.5	-18.1	-0.5	0.00	-1.7	0.0	0.0	6.7	43.6	
XF 503	CNEL	113.0	21	254.5	-59.1	2.8	-19.3	-1.0	-0.49	-2.9	0.0	0.0	6.7	39.7	
XF - 1601	CNEL	96.6		196.0	-56.8	2.7	-15.8	-0.3		-1.2	0.0	0.0	6.7	31.8	

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
XF - 1602	CNEL	96.6		191.9	-56.7	2.7	-16.2	-0.3		-1.2	0.0	0.0	6.7	31.7	
XF Module 1510	CNEL	108.3		212.3	-57.5	2.8	-20.0	-0.8	-0.21	-2.9	0.0	0.0	6.7	36.3	
XF Module 1519	CNEL	109.0		208.9	-57.4	2.8	-8.6	-1.0	-0.30	-3.8	0.0	0.0	6.7	47.3	
Lakewood NB	CNEL		606								11.1			33.3	
Lakewood SB	CNEL		606								11.4			33.1	
Somerset Ave EB	CNEL		917								2.1			23.8	
Somerset Ave WB	CNEL		917								2.1			23.9	
Downey Ave NB	CNEL		608								8.4			31.7	
Downey Ave SB	CNEL		608								8.3			31.5	
Construction / Renewable Fuels Truck Tr	CNEL		1368								2.9			37.4	
Crude Operatoin Truck Truck Traffic	CNEL		520								8.0			34.1	
Receiver CA-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.7 dB(A) Ld 7-19 dB(A) Leq,N 53.0 dB(A) Le 19-22 dB(A) CNEL 62.4 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	321.5	-61.1	4.6	-13.7	-1.7	-0.01	0.0	0.1	-10.8	0.0	26.3	
Air Compressor C 1	CNEL	110.0	5	250.7	-59.0	4.1	-22.4	-0.8		0.0	4.9	0.0	6.7	43.6	
Air Compressor Pump	CNEL	100.3		255.7	-59.1	4.3	-18.3	-1.4		0.0	0.1	0.0	6.7	32.5	
Blower F 401	CNEL	113.0		299.9	-60.5	4.1	-17.8	-0.4	-0.24	0.0	0.0	0.0	6.7	44.8	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	354.7	-62.0	4.6	-20.9	-0.8		0.0	1.3	0.0	6.7	27.5	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	298.7	-60.5	3.8	-15.6	-0.7	-1.02	1.6	0.0	0.0	6.7	39.1	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	292.5	-60.3	3.8	-17.3	-0.7	-0.67	0.0	0.0	0.0	6.7	32.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	301.1	-60.6	3.8	-15.6	-0.6	-0.34	3.2	0.0	0.0	6.7	43.1	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	308.2	-60.8	3.9	-22.4	-0.9	-0.78	-6.9	0.0	0.0	6.7	29.5	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	295.6	-60.4	3.8	-23.8	-1.1	-0.90	-6.9	0.0	0.0	6.7	21.1	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	314.1	-60.9	3.9	-23.0	-1.2	-0.43	-7.8	0.0	0.0	6.7	17.6	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	200.6	-57.0	3.6	-11.4	-1.3		0.0	1.0	-3.0	9.2	54.0	
Construciton Control Room Max Day	CNEL	123.7	5461	200.6	-57.0	3.6	-11.4	-1.3		0.0	1.0	-3.0	0.0	55.5	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	415.9	-63.4	4.7	-22.3	-2.0		0.0	0.2	-3.0	0.0	37.9	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	319.7	-61.1	3.8	-20.7	-1.5		0.0	0.7	-3.0	0.0	41.8	
Construction H2 Plant Max Day	CNEL	123.7	9281	190.0	-56.6	3.4	-13.0	-1.3		0.0	0.4	-3.0	0.0	53.7	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	190.0	-56.6	3.4	-13.0	-1.3		0.0	0.4	-3.0	9.2	52.1	
Construction PreTreat Building Max Day	CNEL	123.7	6360	239.7	-58.6	3.9	-21.9	-1.3		0.0	0.1	-3.0	0.0	42.9	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	239.7	-58.6	3.9	-21.9	-1.3		0.0	0.1	-3.0	9.2	41.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	308.6	-60.8	4.1	-15.6	-2.2	-0.16	0.0	0.8	-3.0	0.0	46.8	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	286.5	-60.1	4.3	-11.5	-1.7		0.0	0.7	-3.0	9.2	50.8	
Construction Unit B Max Day	CNEL	123.7	20817	286.5	-60.1	4.3	-11.5	-1.7		0.0	0.7	-3.0	0.0	52.3	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	237.6	-58.5	3.6	-19.4	-0.6		2.2	0.0	0.0	6.7	31.9	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	247.2	-58.9	3.6	-24.0	-1.3		-7.8	0.1	0.0	6.7	16.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	220.2	-57.8	3.1	-19.1	-0.6		2.4	0.0	0.0	6.7	35.3	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	233.3	-58.4	3.3	-23.4	-1.1		-7.8	7.0	0.0	6.7	27.1	
Cooling Tower M 512	CNEL	95.7		246.6	-58.8	4.2	-24.3	-1.1		0.0	0.0	0.0	6.7	22.3	
Cooling Tower M 513	CNEL	95.7		247.8	-58.9	4.1	-24.2	-1.1		0.0	0.0	0.0	6.7	22.3	
Cooling Tower M 514	CNEL	95.7		245.6	-58.8	4.2	-24.3	-1.1		0.0	0.0	0.0	6.7	22.3	
Heater # 5-Heater	CNEL	91.1	13	351.4	-61.9	4.7	-23.2	-1.0		0.0	2.6	0.0	6.7	21.8	
Heater # 5-Heater	CNEL	91.1	13	350.7	-61.9	4.6	-23.2	-1.0		0.0	3.1	0.0	6.7	22.4	
Heater # 5-Heater	CNEL	91.1	13	350.1	-61.9	4.6	-23.8	-1.1		0.0	0.0	0.0	6.7	18.6	
Hydro Heater H-402	CNEL	98.1		267.7	-59.5	4.1	-24.2	-1.1		0.0	0.0	0.0	6.7	24.1	
Motor & Pump P 56A/B	CNEL	93.7		265.2	-59.5	4.3	-22.6	-1.5	-0.51	0.0	0.0	0.0	6.7	20.5	
Motor & Pump P 120/121	CNEL	96.2	2	255.2	-59.1	4.2	-21.0	-0.8	-0.23	0.0	0.0	0.0	6.7	25.9	
Motor & Pump P 211/212	CNEL	93.7		295.3	-60.4	4.5	-21.6	-1.4	-1.05	0.0	0.0	0.0	6.7	20.5	
Motor & Pump P 215/214	CNEL	94.6		292.7	-60.3	4.5	-21.5	-1.4	-1.04	0.0	16.7	0.0	6.7	38.3	
Motor & Pump P 216	CNEL	98.3		300.5	-60.6	4.4	-21.2	-1.4	-1.21	0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 217/218	CNEL	93.7		294.5	-60.4	4.7	-24.4	-2.2	-0.43	0.0	2.5	0.0	6.7	20.1	
Motor & Pump P 300	CNEL	97.1	2	265.3	-59.5	4.3	-22.3	-1.0		0.0	0.4	0.0	6.7	25.7	
Motor & Pump P 301	CNEL	102.1	2	265.9	-59.5	4.3	-21.0	-0.9		0.0	0.9	0.0	6.7	32.5	
Motor & Pump P 302	CNEL	97.1	2	264.6	-59.4	4.3	-20.9	-0.9		0.0	0.0	0.0	6.7	26.8	
Motor & Pump P 303	CNEL	97.1	2	264.2	-59.4	4.2	-21.9	-0.9		0.0	2.8	0.0	6.7	28.6	
Motor & Pump P 305	CNEL	97.5	2	263.6	-59.4	4.2	-22.5	-1.0		0.0	2.3	0.0	6.7	27.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 306	CNEL	112.6	4	260.4	-59.3	3.9	-22.5	-1.2		0.0	0.2	0.0	6.7	40.4	
Motor & Pump P 307	CNEL	102.1	2	267.8	-59.5	4.3	-20.2	-0.8	-0.19	0.0	2.2	0.0	6.7	34.5	
Motor & Pump P 309	CNEL	97.5	2	263.1	-59.4	4.2	-23.3	-1.0		0.0	0.1	0.0	6.7	24.7	
Motor & Pump P 312	CNEL	101.5	2	277.3	-59.8	4.5	-20.3	-0.9	-0.25	0.0	0.0	0.0	6.7	31.4	
Motor & Pump P 313	CNEL	101.5	2	278.1	-59.9	4.5	-20.3	-0.9	-0.29	0.0	0.0	0.0	6.7	31.4	
Motor & Pump P 315	CNEL	102.9	2	281.4	-60.0	4.4	-19.9	-0.9	-0.38	0.0	1.4	0.0	6.7	34.2	
Motor & Pump P 316	CNEL	102.9	2	282.4	-60.0	4.5	-19.8	-0.9	-0.43	0.0	0.0	0.0	6.7	32.9	
Motor & Pump P 317	CNEL	102.9	2	283.3	-60.0	4.4	-21.0	-0.9	-0.26	0.0	0.0	0.0	6.7	31.7	
Motor & Pump P 318	CNEL	100.2	1	280.0	-59.9	4.6	-20.2	-0.9	-0.37	0.0	1.4	0.0	6.7	31.5	
Motor & Pump P 319	CNEL	100.2	1	279.3	-59.9	4.6	-20.2	-0.9	-0.35	0.0	1.1	0.0	6.7	31.2	
Motor & Pump P 327	CNEL	111.2	3	258.5	-59.2	4.2	-24.2	-1.7		0.0	2.1	0.0	6.7	39.0	
Motor & Pump P 328	CNEL	109.9	5	262.3	-59.4	4.1	-23.0	-1.0		0.0	0.1	0.0	6.7	37.4	
Motor & Pump P 329	CNEL	110.2	5	261.3	-59.3	4.0	-23.4	-1.0		0.0	0.1	0.0	6.7	37.3	
Motor & Pump P 451	CNEL	93.7		271.0	-59.7	4.3	-24.4	-2.1		0.0	0.1	0.0	6.7	18.5	
Motor & Pump P 453	CNEL	93.7		276.3	-59.8	4.3	-22.2	-1.4		0.0	0.0	0.0	6.7	21.2	
Motor & Pump P 454	CNEL	93.7		271.9	-59.7	4.3	-22.2	-1.4	-0.01	0.0	0.0	0.0	6.7	21.4	
Motor & Pump P 457	CNEL	93.7		277.3	-59.9	4.4	-22.2	-1.4		0.0	3.5	0.0	6.7	24.7	
Motor & Pump P 458	CNEL	93.7		270.1	-59.6	4.3	-24.5	-2.1		0.0	0.2	0.0	6.7	18.7	
Motor & Pump P 459	CNEL	93.7		271.3	-59.7	4.3	-22.2	-1.4	-0.04	0.0	0.0	0.0	6.7	21.3	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		242.2	-58.7	4.2	-23.0	-1.5	-0.36	0.0	2.6	0.0	6.7	26.2	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		241.3	-58.6	4.2	-22.9	-1.5	-0.35	0.0	2.6	0.0	6.7	26.2	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		215.8	-57.7	4.0	-24.4	-1.7	-0.17	0.0	0.1	0.0	6.7	22.2	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		215.3	-57.7	4.0	-24.1	-1.6	-0.11	0.0	0.1	0.0	6.7	22.7	
Motor & Pump P 1601 A	CNEL	96.3	2	219.4	-57.8	3.8	-23.0	-1.4		0.0	2.6	0.0	6.7	27.1	
Motor & Pump P 1601 B	CNEL	96.3	2	218.2	-57.8	3.8	-22.2	-1.2		0.0	0.8	0.0	6.7	26.4	
Motor & Pump P 1602 A	CNEL	96.3	2	217.4	-57.7	3.8	-22.2	-1.2		0.0	0.0	0.0	6.7	25.6	
Motor & Pump P 1602 B	CNEL	96.5	2	216.2	-57.7	3.7	-22.3	-1.2		0.0	0.0	0.0	6.7	25.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	234.3	-58.4	4.2	-23.3	-1.5	-0.21	0.0	0.0	0.0	6.7	24.1	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	231.5	-58.3	4.2	-23.3	-1.5	-0.21	0.0	2.5	0.0	6.7	26.6	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	230.1	-58.2	4.2	-23.3	-1.5	-0.21	0.0	2.4	0.0	6.7	26.6	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	240.0	-58.6	4.2	-23.0	-1.4	-0.35	0.0	0.0	0.0	6.7	24.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	238.9	-58.6	4.2	-23.0	-1.4	-0.35	0.0	0.0	0.0	6.7	24.2	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	221.6	-57.9	4.1	-23.5	-1.5	-0.02	0.0	2.2	0.0	6.7	26.3	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	223.5	-58.0	4.1	-23.5	-1.5	-0.09	0.0	2.3	0.0	6.7	26.4	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	226.9	-58.1	4.1	-24.3	-1.8	-0.19	0.0	2.9	0.0	6.7	25.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	225.4	-58.1	4.1	-23.6	-1.5	-0.15	0.0	2.4	0.0	6.7	26.2	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	328.5	-61.3	4.7	-11.3	-0.7	-0.03	0.0	0.0	-38.6	0.0	27.4	
Tank Farm Pump 1	CNEL	99.0	3	184.0	-56.3	3.9	-23.2	-1.1		0.0	0.0	0.0	6.7	29.0	
Tank Farm Pump 2	CNEL	99.0	3	194.1	-56.8	4.0	-23.1	-1.1		0.0	0.5	0.0	6.7	29.1	
Tank Farm Pump 3	CNEL	99.0	3	197.5	-56.9	4.0	-24.4	-1.4		0.0	0.4	0.0	6.7	27.5	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	401.2	-63.1	4.0	-11.7	-2.8	-0.03	0.0	0.0	-16.8	0.0	21.9	
XF-1502 Splitter Area 1	CNEL	104.5		227.4	-58.1	2.7	-18.9	-0.8	0.00	-2.9	0.0	0.0	6.7	33.1	
XF-1502 Splitter Area 2	CNEL	104.5		229.6	-58.2	2.7	-19.0	-0.8		-2.9	0.0	0.0	6.7	32.9	
XF-1504 Splitter Area 1	CNEL	104.5		223.8	-58.0	2.7	-19.2	-0.8	-0.01	-2.9	0.0	0.0	6.7	33.0	
XF-1504 Splitter Area 2	CNEL	104.5		226.0	-58.1	2.7	-19.2	-0.8		-2.9	0.0	0.0	6.7	32.9	
XF 304, XF 321	CNEL	110.5	56	272.0	-59.7	2.5	-15.7	-0.4		-1.6	0.0	0.0	6.7	42.2	
XF 313, XF 314	CNEL	113.0	18	261.7	-59.3	2.4	-18.9	-0.6		-2.7	0.1	0.0	6.7	40.6	
XF 335-1, XF 335-2	CNEL	113.4	54	267.5	-59.5	2.5	-16.9	-0.6	0.00	-1.8	0.0	0.0	6.7	43.8	
XF 503	CNEL	113.0	21	279.4	-59.9	2.8	-10.4	-2.2	-0.80	-3.6	0.0	0.0	6.7	45.5	
XF - 1601	CNEL	96.6		218.7	-57.8	2.7	-9.6	-0.4		-1.6	0.0	0.0	6.7	36.5	
XF - 1602	CNEL	96.6		214.2	-57.6	2.7	-9.7	-0.4		-1.6	0.0	0.0	6.7	36.6	
XF Module 1510	CNEL	108.3		236.5	-58.5	2.7	-19.3	-0.9	-0.20	-2.9	0.0	0.0	6.7	35.9	
XF Module 1519	CNEL	109.0		233.4	-58.4	2.7	-19.2	-0.9	-0.21	-2.9	0.0	0.0	6.7	36.9	
Lakewood NB	CNEL		606								20.3			40.1	
Lakewood SB	CNEL		606								20.2			40.0	
Somerset Ave EB	CNEL		917								3.8			26.4	
Somerset Ave WB	CNEL		917								3.9			26.6	
Downey Ave NB	CNEL		608								14.3			39.2	
Downey Ave SB	CNEL		608								14.3			39.1	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.5			40.3	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Crude Operatoin Truck Truck Traffic	CNEL		520								20.5			39.7	
Receiver CA-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.7 dB(A) Ld 7-19 dB(A) Leq,N 52.2 dB(A) Le 19-22 dB(A) CNEL 62.1 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	337.3	-61.6	4.6	-12.3	-2.1	-0.01	0.0	0.2	-10.8	0.0	27.0	
Air Compressor C 1	CNEL	110.0	5	276.8	-59.8	4.1	-22.5	-0.8		0.0	5.0	0.0	6.7	42.7	
Air Compressor Pump	CNEL	100.3		269.5	-59.6	4.3	-17.4	-1.5		0.0	0.0	0.0	6.7	32.7	
Blower F 401	CNEL	113.0		321.6	-61.1	4.1	-16.9	-0.4	-0.23	0.0	0.5	0.0	6.7	45.6	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	354.0	-62.0	4.6	-14.3	-1.0		0.0	1.8	0.0	6.7	34.3	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	322.7	-61.2	3.9	-20.3	-0.8	-0.83	1.4	1.1	0.0	6.7	34.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	316.7	-61.0	3.9	-19.3	-0.9	-0.63	0.0	1.4	0.0	6.7	30.7	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	325.6	-61.2	3.9	-15.6	-0.6	-0.46	3.4	1.3	0.0	6.7	43.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	332.4	-61.4	3.9	-23.0	-1.0	-0.65	-6.7	1.2	0.0	6.7	29.8	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	319.7	-61.1	3.9	-23.9	-1.2	-0.40	-6.7	1.7	0.0	6.7	22.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	338.6	-61.6	4.0	-23.0	-1.3	-0.47	-7.8	1.3	0.0	6.7	18.2	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	203.2	-57.2	3.5	-15.7	-1.5		0.0	0.1	-3.0	9.2	48.5	
Construciton Control Room Max Day	CNEL	123.7	5461	203.2	-57.2	3.5	-15.7	-1.5		0.0	0.1	-3.0	0.0	50.0	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	395.6	-62.9	4.6	-22.4	-2.0		0.0	0.2	-3.0	0.0	38.2	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	292.9	-60.3	3.8	-10.0	-1.6		0.0	0.3	-3.0	0.0	52.8	
Construction H2 Plant Max Day	CNEL	123.7	9281	206.5	-57.3	3.5	-9.5	-1.6		0.0	0.4	-3.0	0.0	56.2	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	206.5	-57.3	3.5	-9.5	-1.6		0.0	0.4	-3.0	9.2	54.7	
Construction PreTreat Building Max Day	CNEL	123.7	6360	229.3	-58.2	3.7	-20.8	-1.1		0.0	3.5	-3.0	0.0	47.8	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	229.3	-58.2	3.7	-20.8	-1.1		0.0	3.5	-3.0	9.2	46.3	
Construction Unit A Construction Max Day	CNEL	123.7	3185	334.9	-61.5	4.2	-19.3	-1.4	-0.40	0.0	1.3	-3.0	0.0	43.5	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	289.5	-60.2	4.2	-14.4	-1.9		0.0	0.2	-3.0	9.2	47.1	
Construction Unit B Max Day	CNEL	123.7	20817	289.5	-60.2	4.2	-14.4	-1.9		0.0	0.2	-3.0	0.0	48.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	259.7	-59.3	3.7	-19.0	-0.7		1.9	1.2	0.0	6.7	32.4	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	269.7	-59.6	3.7	-23.2	-1.2		-7.8	1.4	0.0	6.7	17.8	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	241.1	-58.6	3.2	-18.1	-0.6		2.2	0.9	0.0	6.7	36.2	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	255.0	-59.1	3.4	-23.3	-1.1		-7.8	10.3	0.0	6.7	29.6	
Cooling Tower M 512	CNEL	95.7		268.6	-59.6	4.2	-24.1	-1.2		0.0	2.0	0.0	6.7	23.7	
Cooling Tower M 513	CNEL	95.7		269.8	-59.6	4.2	-24.0	-1.2		0.0	2.1	0.0	6.7	23.8	
Cooling Tower M 514	CNEL	95.7		267.5	-59.5	4.2	-24.2	-1.2		0.0	2.2	0.0	6.7	23.8	
Heater # 5-Heater	CNEL	91.1	13	350.4	-61.9	4.6	-22.2	-0.9		0.0	7.8	0.0	6.7	28.1	
Heater # 5-Heater	CNEL	91.1	13	350.1	-61.9	4.6	-22.9	-1.0		0.0	4.9	0.0	6.7	24.4	
Heater # 5-Heater	CNEL	91.1	13	350.0	-61.9	4.6	-23.8	-1.2		0.0	0.1	0.0	6.7	18.6	
Hydro Heater H-402	CNEL	98.1		290.6	-60.3	4.2	-24.2	-1.2		0.0	0.1	0.0	6.7	23.4	
Motor & Pump P 56A/B	CNEL	93.7		289.0	-60.2	4.3	-24.5	-2.2	-0.17	0.0	3.0	0.0	6.7	20.5	
Motor & Pump P 120/121	CNEL	96.2	2	280.9	-60.0	4.2	-21.0	-0.9	-0.24	0.0	1.8	0.0	6.7	26.8	
Motor & Pump P 211/212	CNEL	93.7		318.7	-61.1	4.5	-21.0	-1.4	-1.02	0.0	2.0	0.0	6.7	22.4	
Motor & Pump P 215/214	CNEL	94.6		316.2	-61.0	4.5	-21.0	-1.4	-1.02	0.0	0.9	0.0	6.7	22.3	
Motor & Pump P 216	CNEL	98.3		324.0	-61.2	4.4	-24.1	-2.2	-0.48	0.0	1.8	0.0	6.7	23.2	
Motor & Pump P 217/218	CNEL	93.7		317.9	-61.0	4.7	-21.9	-1.5	-1.02	0.0	2.4	0.0	6.7	22.0	
Motor & Pump P 300	CNEL	97.1	2	291.2	-60.3	4.3	-20.3	-0.9		0.0	0.0	0.0	6.7	26.6	
Motor & Pump P 301	CNEL	102.1	2	291.8	-60.3	4.3	-19.8	-0.9		0.0	0.3	0.0	6.7	32.3	
Motor & Pump P 302	CNEL	97.1	2	290.6	-60.3	4.3	-19.8	-0.9		0.0	0.0	0.0	6.7	27.1	
Motor & Pump P 303	CNEL	97.1	2	290.2	-60.2	4.2	-21.0	-0.9		0.0	1.2	0.0	6.7	27.1	
Motor & Pump P 305	CNEL	97.5	2	289.7	-60.2	4.2	-22.2	-1.0		0.0	3.9	0.0	6.7	28.8	
Motor & Pump P 306	CNEL	112.6	4	286.6	-60.1	4.0	-21.9	-1.2		0.0	0.2	0.0	6.7	40.2	
Motor & Pump P 307	CNEL	102.1	2	293.5	-60.3	4.3	-20.0	-0.9	-0.24	0.0	3.9	0.0	6.7	35.5	
Motor & Pump P 309	CNEL	97.5	2	289.2	-60.2	4.2	-23.3	-1.1		0.0	0.1	0.0	6.7	23.8	
Motor & Pump P 312	CNEL	101.5	2	302.3	-60.6	4.5	-19.7	-0.9	-0.34	0.0	1.8	0.0	6.7	33.0	
Motor & Pump P 313	CNEL	101.5	2	303.0	-60.6	4.5	-19.6	-0.9	-0.36	0.0	1.8	0.0	6.7	33.0	
Motor & Pump P 315	CNEL	102.9	2	306.1	-60.7	4.5	-19.8	-1.0	-0.59	0.0	3.3	0.0	6.7	35.2	
Motor & Pump P 316	CNEL	102.9	2	307.0	-60.7	4.5	-21.4	-1.0	-0.25	0.0	2.3	0.0	6.7	33.0	
Motor & Pump P 317	CNEL	102.9	2	307.9	-60.8	4.4	-20.3	-1.0	-0.59	0.0	2.2	0.0	6.7	33.6	
Motor & Pump P 318	CNEL	100.2	1	304.8	-60.7	4.6	-20.4	-1.0	-0.59	0.0	3.1	0.0	6.7	32.0	
Motor & Pump P 319	CNEL	100.2	1	304.1	-60.7	4.6	-19.4	-0.9	-0.45	0.0	2.6	0.0	6.7	32.6	
Motor & Pump P 327	CNEL	111.2	3	285.0	-60.1	4.2	-24.1	-1.8		0.0	3.4	0.0	6.7	39.5	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 328	CNEL	109.9	5	288.4	-60.2	4.1	-23.1	-1.1		0.0	0.2	0.0	6.7	36.5	
Motor & Pump P 329	CNEL	110.2	5	287.5	-60.2	4.1	-23.1	-1.1		0.0	0.1	0.0	6.7	36.6	
Motor & Pump P 451	CNEL	93.7		293.6	-60.3	4.3	-22.1	-1.5		0.0	1.9	0.0	6.7	22.6	
Motor & Pump P 453	CNEL	93.7		298.3	-60.5	4.4	-21.8	-1.4		0.0	2.9	0.0	6.7	23.9	
Motor & Pump P 454	CNEL	93.7		294.6	-60.4	4.3	-22.0	-1.4		0.0	1.9	0.0	6.7	22.8	
Motor & Pump P 457	CNEL	93.7		299.2	-60.5	4.4	-21.5	-1.4		0.0	2.4	0.0	6.7	23.6	
Motor & Pump P 458	CNEL	93.7		292.7	-60.3	4.3	-22.2	-1.5		0.0	1.9	0.0	6.7	22.6	
Motor & Pump P 459	CNEL	93.7		294.0	-60.4	4.3	-24.4	-2.1		0.0	3.3	0.0	6.7	21.1	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		265.7	-59.5	4.2	-22.7	-1.5	-0.35	0.0	4.1	0.0	6.7	27.2	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		264.8	-59.4	4.2	-22.7	-1.5	-0.34	0.0	3.0	0.0	6.7	26.1	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		240.6	-58.6	4.1	-24.4	-1.9	-0.19	0.0	1.8	0.0	6.7	22.9	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		240.1	-58.6	4.1	-23.9	-1.7	-0.12	0.0	1.7	0.0	6.7	23.6	
Motor & Pump P 1601 A	CNEL	96.3	2	241.8	-58.7	3.9	-21.7	-1.2		0.0	2.3	0.0	6.7	27.5	
Motor & Pump P 1601 B	CNEL	96.3	2	240.5	-58.6	3.8	-21.8	-1.2		0.0	2.1	0.0	6.7	27.4	
Motor & Pump P 1602 A	CNEL	96.3	2	239.7	-58.6	3.8	-21.8	-1.2		0.0	2.2	0.0	6.7	27.3	
Motor & Pump P 1602 B	CNEL	96.5	2	238.5	-58.5	3.8	-21.9	-1.2		0.0	2.1	0.0	6.7	27.5	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	257.5	-59.2	4.3	-23.0	-1.5	-0.20	0.0	5.3	0.0	6.7	28.9	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	254.9	-59.1	4.2	-23.1	-1.5	-0.20	0.0	5.0	0.0	6.7	28.5	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	253.6	-59.1	4.2	-23.1	-1.5	-0.20	0.0	5.1	0.0	6.7	28.7	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	263.5	-59.4	4.2	-22.8	-1.5	-0.34	0.0	2.7	0.0	6.7	26.3	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	262.6	-59.4	4.2	-22.8	-1.5	-0.34	0.0	3.4	0.0	6.7	27.0	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	245.1	-58.8	4.2	-23.5	-1.6	-0.02	0.0	1.7	0.0	6.7	25.0	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	247.1	-58.8	4.2	-23.4	-1.6	-0.08	0.0	1.8	0.0	6.7	25.1	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	250.6	-59.0	4.2	-23.9	-1.8	-0.19	0.0	5.4	0.0	6.7	27.8	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	249.0	-58.9	4.2	-23.3	-1.6	-0.14	0.0	4.1	0.0	6.7	27.3	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	345.5	-61.8	4.7	-11.8	-0.7	-0.05	0.0	0.1	-38.6	0.0	26.6	
Tank Farm Pump 1	CNEL	99.0	3	175.3	-55.9	3.7	-22.5	-0.9		0.0	0.6	0.0	6.7	30.7	
Tank Farm Pump 2	CNEL	99.0	3	182.7	-56.2	3.7	-24.2	-1.3		0.0	0.0	0.0	6.7	27.7	
Tank Farm Pump 3	CNEL	99.0	3	185.4	-56.4	3.8	-24.4	-1.3		0.0	0.1	0.0	6.7	27.5	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	424.4	-63.5	4.0	-13.4	-2.0	-0.02	0.0	0.3	-16.8	0.0	20.9	
XF-1502 Splitter Area 1	CNEL	104.5		250.9	-59.0	2.7	-18.2	-0.9	0.00	-3.0	1.3	0.0	6.7	34.1	
XF-1502 Splitter Area 2	CNEL	104.5		252.9	-59.1	2.7	-18.2	-0.9		-3.0	1.4	0.0	6.7	34.1	
XF-1504 Splitter Area 1	CNEL	104.5		247.2	-58.9	2.7	-18.4	-0.9	-0.01	-2.9	1.3	0.0	6.7	34.1	
XF-1504 Splitter Area 2	CNEL	104.5		249.2	-58.9	2.7	-18.3	-0.9		-3.0	1.4	0.0	6.7	34.1	
XF 304, XF 321	CNEL	110.5	56	297.8	-60.5	2.4	-14.1	-0.5		-1.7	0.0	0.0	6.7	42.9	
XF 313, XF 314	CNEL	113.0	18	288.6	-60.2	2.4	-18.4	-0.7		-2.7	1.2	0.0	6.7	41.4	
XF 335-1, XF 335-2	CNEL	113.4	54	293.6	-60.3	2.4	-16.0	-0.6	0.00	-1.8	0.0	0.0	6.7	43.6	
XF 503	CNEL	113.0	21	303.3	-60.6	2.7	-18.7	-1.1	-0.45	-2.9	1.1	0.0	6.7	39.8	
XF - 1601	CNEL	96.6		241.0	-58.6	2.6	-8.1	-0.5		-1.8	0.9	0.0	6.7	37.7	
XF - 1602	CNEL	96.6		236.2	-58.5	2.6	-8.2	-0.5		-1.8	0.9	0.0	6.7	37.8	
XF Module 1510	CNEL	108.3		259.8	-59.3	2.7	-18.5	-0.9	-0.20	-2.9	1.3	0.0	6.7	37.1	
XF Module 1519	CNEL	109.0		257.0	-59.2	2.7	-18.6	-0.9	-0.20	-2.9	1.3	0.0	6.7	37.8	
Lakewood NB	CNEL		606								8.5			32.1	
Lakewood SB	CNEL		606								8.8			32.2	
Somerset Ave EB	CNEL		917								3.6			22.6	
Somerset Ave WB	CNEL		917								3.3			22.9	
Downey Ave NB	CNEL		608								6.3			25.4	
Downey Ave SB	CNEL		608								6.3			25.5	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.1			38.4	
Crude Operatoin Truck Truck Traffic	CNEL		520								5.6			30.1	
Receiver CA-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 62.2 dB(A) Ld 7-19 dB(A) Leq,N 50.6 dB(A) Le 19-22 dB(A) CNEL 61.8 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	344.6	-61.7	4.6	-15.2	-1.8	-0.02	0.0	0.1	-10.8	0.0	24.1	
Air Compressor C 1	CNEL	110.0	5	290.5	-60.3	4.2	-22.4	-0.8		0.0	5.0	0.0	6.7	42.4	
Air Compressor Pump	CNEL	100.3		275.8	-59.8	4.3	-23.3	-2.3		0.0	0.0	0.0	6.7	25.8	
Blower F 401	CNEL	113.0		332.4	-61.4	4.2	-16.6	-0.4	-0.22	0.0	0.0	0.0	6.7	45.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	352.0	-61.9	4.6	-20.1	-0.8		0.0	1.6	0.0	6.7	28.7	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	335.0	-61.5	4.0	-20.2	-0.8	-0.85	1.2	0.0	0.0	6.7	33.3	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	329.0	-61.3	4.0	-19.2	-0.9	-0.67	0.0	0.0	0.0	6.7	29.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	338.1	-61.6	4.0	-16.0	-0.6	-0.37	3.6	0.0	0.0	6.7	42.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	344.7	-61.7	4.0	-23.0	-1.1	-0.62	-6.4	0.0	0.0	6.7	28.5	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	332.0	-61.4	4.0	-23.2	-1.1	-0.71	-6.5	0.0	0.0	6.7	21.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	351.1	-61.9	4.0	-23.0	-1.3	-0.45	-7.8	0.0	0.0	6.7	16.7	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	203.6	-57.2	3.5	-14.3	-1.3		0.0	0.1	-3.0	9.2	50.1	
Construciton Control Room Max Day	CNEL	123.7	5461	203.6	-57.2	3.5	-14.3	-1.3		0.0	0.1	-3.0	0.0	51.6	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	383.3	-62.7	4.6	-22.6	-2.1		0.0	0.2	-3.0	0.0	38.1	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	277.7	-59.9	3.9	-4.3	-3.2		0.0	0.6	-3.0	0.0	57.7	
Construction H2 Plant Max Day	CNEL	123.7	9281	214.5	-57.6	3.6	-13.6	-1.5		0.0	0.1	-3.0	0.0	51.7	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	214.5	-57.6	3.6	-13.6	-1.5		0.0	0.1	-3.0	9.2	50.2	
Construction PreTreat Building Max Day	CNEL	123.7	6360	222.4	-57.9	3.7	-21.5	-1.2		0.0	0.5	-3.0	0.0	44.2	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	222.4	-57.9	3.7	-21.5	-1.2		0.0	0.5	-3.0	9.2	42.7	
Construction Unit A Construction Max Day	CNEL	123.7	3185	348.6	-61.8	4.2	-19.4	-1.5	-0.41	0.0	0.3	-3.0	0.0	42.1	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	289.7	-60.2	4.2	-14.3	-1.7		0.0	0.1	-3.0	9.2	47.3	
Construction Unit B Max Day	CNEL	123.7	20817	289.7	-60.2	4.2	-14.3	-1.7		0.0	0.1	-3.0	0.0	48.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	270.7	-59.6	3.8	-18.9	-0.7		1.7	0.0	0.0	6.7	30.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	281.1	-60.0	3.8	-23.0	-1.1		-7.8	0.0	0.0	6.7	16.4	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	251.5	-59.0	3.3	-17.8	-0.6		2.0	0.0	0.0	6.7	35.1	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	265.9	-59.5	3.5	-23.3	-1.2		-7.8	9.2	0.0	6.7	28.3	
Cooling Tower M 512	CNEL	95.7		279.6	-59.9	4.3	-24.1	-1.2		0.0	0.0	0.0	6.7	21.4	
Cooling Tower M 513	CNEL	95.7		280.9	-60.0	4.3	-23.8	-1.2		0.0	0.0	0.0	6.7	21.6	
Cooling Tower M 514	CNEL	95.7		278.5	-59.9	4.3	-23.8	-1.2		0.0	0.0	0.0	6.7	21.8	
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-23.2	-1.0		0.0	2.2	0.0	6.7	21.5	
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-23.1	-1.0		0.0	3.7	0.0	6.7	23.1	
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-23.3	-1.0		0.0	0.0	0.0	6.7	19.2	
Hydro Heater H-402	CNEL	98.1		302.2	-60.6	4.2	-24.2	-1.2		0.0	0.0	0.0	6.7	23.1	
Motor & Pump P 56A/B	CNEL	93.7		301.1	-60.6	4.4	-22.9	-1.7	-0.49	0.0	0.1	0.0	6.7	19.2	
Motor & Pump P 120/121	CNEL	96.2	2	294.2	-60.4	4.3	-21.1	-1.0	-0.24	0.0	0.0	0.0	6.7	24.6	
Motor & Pump P 211/212	CNEL	93.7		330.4	-61.4	4.6	-20.7	-1.5	-0.99	0.0	0.0	0.0	6.7	20.4	
Motor & Pump P 215/214	CNEL	94.6		328.1	-61.3	4.6	-24.4	-2.4	-0.40	0.0	0.0	0.0	6.7	17.5	
Motor & Pump P 216	CNEL	98.3		335.9	-61.5	4.5	-20.4	-1.5	-1.16	0.0	0.0	0.0	6.7	25.0	
Motor & Pump P 217/218	CNEL	93.7		329.7	-61.4	4.8	-21.0	-1.5	-1.00	0.0	0.0	0.0	6.7	20.3	
Motor & Pump P 300	CNEL	97.1	2	304.7	-60.7	4.4	-19.8	-0.9		0.0	0.0	0.0	6.7	26.8	
Motor & Pump P 301	CNEL	102.1	2	305.2	-60.7	4.4	-19.9	-0.9	0.00	0.0	0.2	0.0	6.7	31.8	
Motor & Pump P 302	CNEL	97.1	2	304.1	-60.7	4.4	-19.7	-0.9		0.0	0.0	0.0	6.7	26.8	
Motor & Pump P 303	CNEL	97.1	2	303.7	-60.6	4.3	-19.6	-0.9		0.0	0.0	0.0	6.7	26.9	
Motor & Pump P 305	CNEL	97.5	2	303.3	-60.6	4.3	-21.8	-1.0		0.0	4.2	0.0	6.7	29.3	
Motor & Pump P 306	CNEL	112.6	4	300.4	-60.5	4.1	-21.9	-1.2		0.0	0.3	0.0	6.7	39.9	
Motor & Pump P 307	CNEL	102.1	2	306.9	-60.7	4.4	-20.0	-1.0	-0.24	0.0	1.9	0.0	6.7	33.2	
Motor & Pump P 309	CNEL	97.5	2	302.8	-60.6	4.3	-23.2	-1.1		0.0	0.1	0.0	6.7	23.7	
Motor & Pump P 312	CNEL	101.5	2	315.1	-61.0	4.6	-20.3	-1.0	-0.41	0.0	0.0	0.0	6.7	30.1	
Motor & Pump P 313	CNEL	101.5	2	315.9	-61.0	4.6	-20.2	-1.0	-0.46	0.0	0.0	0.0	6.7	30.1	
Motor & Pump P 315	CNEL	102.9	2	318.8	-61.1	4.5	-21.4	-1.0	-0.25	0.0	2.0	0.0	6.7	32.4	
Motor & Pump P 316	CNEL	102.9	2	319.7	-61.1	4.5	-19.8	-1.0	-0.58	0.0	0.2	0.0	6.7	31.8	
Motor & Pump P 317	CNEL	102.9	2	320.5	-61.1	4.5	-20.1	-1.0	-0.51	0.0	0.0	0.0	6.7	31.4	
Motor & Pump P 318	CNEL	100.2	1	317.5	-61.0	4.7	-20.7	-1.0	-0.58	0.0	1.3	0.0	6.7	29.5	
Motor & Pump P 319	CNEL	100.2	1	316.9	-61.0	4.7	-19.5	-1.0	-0.58	0.0	0.5	0.0	6.7	30.0	
Motor & Pump P 327	CNEL	111.2	3	298.9	-60.5	4.3	-24.1	-1.9		0.0	1.9	0.0	6.7	37.6	
Motor & Pump P 328	CNEL	109.9	5	302.1	-60.6	4.2	-23.0	-1.1		0.0	0.1	0.0	6.7	36.2	
Motor & Pump P 329	CNEL	110.2	5	301.2	-60.6	4.2	-23.3	-1.1		0.0	0.1	0.0	6.7	36.1	
Motor & Pump P 451	CNEL	93.7		304.9	-60.7	4.4	-22.0	-1.5		0.0	0.2	0.0	6.7	20.7	
Motor & Pump P 453	CNEL	93.7		309.2	-60.8	4.4	-21.7	-1.5		0.0	0.3	0.0	6.7	21.2	
Motor & Pump P 454	CNEL	93.7		305.9	-60.7	4.4	-22.0	-1.5		0.0	0.2	0.0	6.7	20.8	
Motor & Pump P 457	CNEL	93.7		310.1	-60.8	4.4	-21.7	-1.5		0.0	1.1	0.0	6.7	22.0	
Motor & Pump P 458	CNEL	93.7		304.0	-60.6	4.4	-22.1	-1.5		0.0	0.2	0.0	6.7	20.7	
Motor & Pump P 459	CNEL	93.7		305.4	-60.7	4.4	-22.0	-1.5		0.0	0.0	0.0	6.7	20.6	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		277.6	-59.9	4.3	-22.7	-1.5	-0.34	0.0	0.0	0.0	6.7	22.8	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		276.7	-59.8	4.3	-22.8	-1.5	-0.34	0.0	1.8	0.0	6.7	24.5	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		253.4	-59.1	4.2	-24.3	-1.9	-0.20	0.0	0.0	0.0	6.7	20.8	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		252.9	-59.1	4.2	-23.9	-1.8	-0.13	0.0	0.0	0.0	6.7	21.4	
Motor & Pump P 1601 A	CNEL	96.3	2	253.1	-59.1	4.0	-21.5	-1.2		0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 1601 B	CNEL	96.3	2	251.9	-59.0	4.0	-21.6	-1.2		0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 1602 A	CNEL	96.3	2	251.0	-59.0	4.0	-21.6	-1.2		0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 1602 B	CNEL	96.5	2	249.7	-58.9	3.9	-21.7	-1.2		0.0	0.0	0.0	6.7	25.3	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	269.2	-59.6	4.3	-23.0	-1.5	-0.20	0.0	3.0	0.0	6.7	26.3	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	266.8	-59.5	4.3	-23.0	-1.6	-0.20	0.0	3.0	0.0	6.7	26.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	265.6	-59.5	4.3	-23.1	-1.6	-0.20	0.0	3.3	0.0	6.7	26.6	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	275.5	-59.8	4.3	-22.7	-1.5	-0.34	0.0	1.8	0.0	6.7	25.1	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	274.6	-59.8	4.3	-22.7	-1.5	-0.34	0.0	2.9	0.0	6.7	26.3	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	257.1	-59.2	4.3	-23.4	-1.6	-0.02	0.0	0.1	0.0	6.7	23.1	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.1	-59.3	4.3	-23.3	-1.6	-0.08	0.0	0.1	0.0	6.7	23.0	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	262.7	-59.4	4.3	-23.7	-1.7	-0.19	0.0	2.4	0.0	6.7	24.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	261.1	-59.3	4.3	-23.2	-1.6	-0.14	0.0	0.0	0.0	6.7	23.0	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	353.4	-62.0	4.7	-14.1	-0.6	-0.08	0.0	0.0	-38.6	0.0	24.1	
Tank Farm Pump 1	CNEL	99.0	3	169.8	-55.6	3.6	-22.9	-1.0		0.0	0.7	0.0	6.7	30.6	
Tank Farm Pump 2	CNEL	99.0	3	175.6	-55.9	3.7	-24.3	-1.2		0.0	0.1	0.0	6.7	28.0	
Tank Farm Pump 3	CNEL	99.0	3	177.9	-56.0	3.7	-24.3	-1.3		0.0	4.6	0.0	6.7	32.4	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	436.0	-63.8	4.0	-15.7	-1.6	-0.04	0.0	0.0	-16.8	0.0	18.6	
XF-1502 Splitter Area 1	CNEL	104.5		262.9	-59.4	2.7	-18.0	-1.0	0.00	-3.0	0.0	0.0	6.7	32.6	
XF-1502 Splitter Area 2	CNEL	104.5		264.7	-59.4	2.7	-17.9	-1.0		-3.0	0.0	0.0	6.7	32.7	
XF-1504 Splitter Area 1	CNEL	104.5		259.0	-59.3	2.7	-18.2	-0.9	-0.01	-3.0	0.0	0.0	6.7	32.6	
XF-1504 Splitter Area 2	CNEL	104.5		261.0	-59.3	2.7	-18.0	-0.9		-3.0	0.0	0.0	6.7	32.7	
XF 304, XF 321	CNEL	110.5	56	311.3	-60.9	2.5	-14.0	-0.5		-1.7	0.0	0.0	6.7	42.5	
XF 313, XF 314	CNEL	113.0	18	302.6	-60.6	2.5	-18.2	-0.7		-2.7	0.0	0.0	6.7	39.9	
XF 335-1, XF 335-2	CNEL	113.4	54	307.4	-60.7	2.4	-15.8	-0.7	0.00	-1.8	0.0	0.0	6.7	43.5	
XF 503	CNEL	113.0	21	315.4	-61.0	2.7	-18.3	-1.0	-0.44	-2.9	0.0	0.0	6.7	38.8	
XF - 1601	CNEL	96.6		252.2	-59.0	2.6	-7.7	-0.6		-1.9	0.0	0.0	6.7	36.8	
XF - 1602	CNEL	96.6		247.3	-58.9	2.7	-7.7	-0.6		-1.9	0.0	0.0	6.7	36.9	
XF Module 1510	CNEL	108.3		271.7	-59.7	2.7	-18.3	-1.0	-0.20	-2.9	0.0	0.0	6.7	35.6	
XF Module 1519	CNEL	109.0		269.0	-59.6	2.7	-18.4	-1.0	-0.21	-2.9	0.0	0.0	6.7	36.3	
Lakewood NB	CNEL		606								8.2			35.5	
Lakewood SB	CNEL		606								8.2			35.3	
Somerset Ave EB	CNEL		917								3.3			22.9	
Somerset Ave WB	CNEL		917								3.3			23.1	
Downey Ave NB	CNEL		608								5.0			23.6	
Downey Ave SB	CNEL		608								5.0			23.7	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.0			36.4	
Crude Operatoin Truck Truck Traffic	CNEL		520								2.1			35.0	
Receiver CA-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.4 dB(A) Ld 7-19 dB(A) Leq,N 51.6 dB(A) Le 19-22 dB(A) CNEL 61.0 dB(A) Lmax day hr dB(A) Ld 7-1															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	358.5	-62.1	4.6	-17.8	-0.9	-0.04	0.0	0.2	-10.8	0.0	22.1	
Air Compressor C 1	CNEL	110.0	5	312.0	-60.9	4.3	-22.2	-0.9		0.0	5.4	0.0	6.7	42.4	
Air Compressor Pump	CNEL	100.3		288.8	-60.2	4.3	-21.9	-1.9		0.0	1.0	0.0	6.7	28.3	
Blower F 401	CNEL	113.0		350.7	-61.9	4.2	-16.4	-0.4	-0.21	0.0	0.0	0.0	6.7	45.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	353.0	-61.9	4.6	-18.0	-0.7		0.0	1.6	0.0	6.7	30.7	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	355.0	-62.0	4.0	-20.6	-0.8	-0.85	1.1	0.0	0.0	6.7	32.3	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	349.1	-61.9	4.0	-19.3	-1.0	-0.65	0.0	0.0	0.0	6.7	28.5	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	358.5	-62.1	4.0	-15.6	-0.7	-0.33	3.7	0.0	0.0	6.7	42.3	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	364.8	-62.2	4.1	-23.0	-1.1	-0.58	-6.2	0.0	0.0	6.7	28.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	352.1	-61.9	4.0	-23.2	-1.1	-0.69	-6.2	0.0	0.0	6.7	21.3	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	371.5	-62.4	4.1	-22.8	-1.4	-0.32	-7.8	0.0	0.0	6.7	16.5	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	209.0	-57.4	3.5	-21.4	-1.2		0.0	0.3	-3.0	9.2	43.0	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construciton Control Room Max Day	CNEL	123.7	5461	209.0	-57.4	3.5	-21.4	-1.2		0.0	0.3	-3.0	0.0	44.5	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	367.0	-62.3	4.5	-23.7	-2.5		0.0	1.7	-3.0	0.0	38.5	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	255.5	-59.1	3.9	-13.3	-1.3		0.0	0.3	-3.0	0.0	51.1	
Construction H2 Plant Max Day	CNEL	123.7	9281	230.0	-58.2	3.7	-20.2	-1.0		0.0	2.6	-3.0	0.0	47.6	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	230.0	-58.2	3.7	-20.2	-1.0		0.0	2.6	-3.0	9.2	46.0	
Construction PreTreat Building Max Day	CNEL	123.7	6360	216.3	-57.7	3.6	-12.5	-1.5		0.0	2.2	-3.0	0.0	54.8	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	216.3	-57.7	3.6	-12.5	-1.5		0.0	2.2	-3.0	9.2	53.3	
Construction Unit A Construction Max Day	CNEL	123.7	3185	370.1	-62.4	4.3	-18.2	-1.5	-0.36	0.0	0.3	-3.0	0.0	42.8	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	294.0	-60.4	4.2	-13.7	-2.0		0.0	0.3	-3.0	9.2	47.6	
Construction Unit B Max Day	CNEL	123.7	20817	294.0	-60.4	4.2	-13.7	-2.0		0.0	0.3	-3.0	0.0	49.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	289.6	-60.2	3.8	-18.4	-0.7		1.4	0.0	0.0	6.7	30.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	300.2	-60.5	3.9	-22.7	-1.2		-7.8	0.0	0.0	6.7	16.2	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	269.7	-59.6	3.3	-19.0	-0.7		1.7	0.0	0.0	6.7	32.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	284.5	-60.1	3.5	-23.0	-1.2		-7.8	10.3	0.0	6.7	29.1	
Cooling Tower M 512	CNEL	95.7		298.4	-60.5	4.3	-23.9	-1.3		0.0	0.0	0.0	6.7	21.1	
Cooling Tower M 513	CNEL	95.7		299.7	-60.5	4.3	-23.7	-1.3		0.0	0.0	0.0	6.7	21.2	
Cooling Tower M 514	CNEL	95.7		297.2	-60.5	4.3	-23.6	-1.3		0.0	0.0	0.0	6.7	21.4	
Heater # 5-Heater	CNEL	91.1	13	349.2	-61.9	4.6	-22.3	-0.9		0.0	2.0	0.0	6.7	22.2	
Heater # 5-Heater	CNEL	91.1	13	349.4	-61.9	4.6	-22.6	-1.0		0.0	4.8	0.0	6.7	24.7	
Heater # 5-Heater	CNEL	91.1	13	349.8	-61.9	4.6	-23.2	-1.1		0.0	0.0	0.0	6.7	19.2	
Hydro Heater H-402	CNEL	98.1		321.5	-61.1	4.3	-24.0	-1.2		0.0	0.0	0.0	6.7	22.7	
Motor & Pump P 56A/B	CNEL	93.7		321.0	-61.1	4.4	-22.6	-1.7	-0.48	0.0	0.0	0.0	6.7	18.9	
Motor & Pump P 120/121	CNEL	96.2	2	315.5	-61.0	4.4	-20.6	-1.0	-0.24	0.0	0.1	0.0	6.7	24.5	
Motor & Pump P 211/212	CNEL	93.7		349.9	-61.9	4.6	-18.1	-1.4	-0.88	0.0	0.0	0.0	6.7	22.7	
Motor & Pump P 215/214	CNEL	94.6		347.8	-61.8	4.6	-20.2	-1.5	-0.98	0.0	0.0	0.0	6.7	21.4	
Motor & Pump P 216	CNEL	98.3		355.6	-62.0	4.5	-17.6	-1.5	-1.14	0.0	0.0	0.0	6.7	27.3	
Motor & Pump P 217/218	CNEL	93.7		349.2	-61.9	4.8	-18.4	-1.4	-0.96	0.0	0.0	0.0	6.7	22.5	
Motor & Pump P 300	CNEL	97.1	2	326.1	-61.3	4.4	-20.0	-1.0		0.0	0.0	0.0	6.7	26.0	
Motor & Pump P 301	CNEL	102.1	2	326.6	-61.3	4.4	-20.0	-1.0	-0.04	0.0	0.1	0.0	6.7	30.9	
Motor & Pump P 302	CNEL	97.1	2	325.5	-61.2	4.4	-21.8	-1.1		0.0	0.0	0.0	6.7	24.1	
Motor & Pump P 303	CNEL	97.1	2	325.2	-61.2	4.4	-19.0	-1.0		0.0	0.1	0.0	6.7	27.0	
Motor & Pump P 305	CNEL	97.5	2	324.8	-61.2	4.4	-21.0	-1.0		0.0	4.4	0.0	6.7	29.6	
Motor & Pump P 306	CNEL	112.6	4	322.1	-61.2	4.1	-21.9	-1.3		0.0	0.3	0.0	6.7	39.4	
Motor & Pump P 307	CNEL	102.1	2	328.2	-61.3	4.4	-19.6	-1.0	-0.24	0.0	1.9	0.0	6.7	32.9	
Motor & Pump P 309	CNEL	97.5	2	324.3	-61.2	4.3	-23.1	-1.2		0.0	0.1	0.0	6.7	23.2	
Motor & Pump P 312	CNEL	101.5	2	335.9	-61.5	4.6	-18.8	-1.0	-0.53	0.0	0.0	0.0	6.7	30.9	
Motor & Pump P 313	CNEL	101.5	2	336.6	-61.5	4.6	-17.1	-1.0	-0.57	0.0	0.0	0.0	6.7	32.6	
Motor & Pump P 315	CNEL	102.9	2	339.4	-61.6	4.6	-20.3	-1.1	-0.58	0.0	1.5	0.0	6.7	32.2	
Motor & Pump P 316	CNEL	102.9	2	340.2	-61.6	4.6	-19.5	-1.0	-0.52	0.0	0.6	0.0	6.7	32.1	
Motor & Pump P 317	CNEL	102.9	2	340.9	-61.6	4.5	-19.6	-1.0	-0.51	0.0	0.0	0.0	6.7	31.3	
Motor & Pump P 318	CNEL	100.2	1	338.1	-61.6	4.7	-21.3	-1.1	-0.25	0.0	1.1	0.0	6.7	28.4	
Motor & Pump P 319	CNEL	100.2	1	337.5	-61.6	4.7	-19.8	-1.0	-0.57	0.0	0.0	0.0	6.7	28.5	
Motor & Pump P 327	CNEL	111.2	3	320.7	-61.1	4.3	-24.1	-2.0		0.0	1.9	0.0	6.7	37.0	
Motor & Pump P 328	CNEL	109.9	5	323.7	-61.2	4.2	-22.7	-1.2		0.0	0.2	0.0	6.7	36.0	
Motor & Pump P 329	CNEL	110.2	5	322.8	-61.2	4.2	-23.0	-1.2		0.0	0.2	0.0	6.7	35.9	
Motor & Pump P 451	CNEL	93.7		324.0	-61.2	4.4	-21.5	-1.5		0.0	0.5	0.0	6.7	21.0	
Motor & Pump P 453	CNEL	93.7		327.9	-61.3	4.5	-21.0	-1.5		0.0	0.9	0.0	6.7	21.9	
Motor & Pump P 454	CNEL	93.7		325.1	-61.2	4.4	-21.1	-1.5		0.0	0.4	0.0	6.7	21.3	
Motor & Pump P 457	CNEL	93.7		328.7	-61.3	4.5	-21.0	-1.5		0.0	0.0	0.0	6.7	21.0	
Motor & Pump P 458	CNEL	93.7		323.0	-61.2	4.4	-21.7	-1.5		0.0	0.0	0.0	6.7	20.4	
Motor & Pump P 459	CNEL	93.7		324.6	-61.2	4.4	-21.2	-1.5		0.0	0.0	0.0	6.7	20.9	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		297.3	-60.5	4.4	-22.2	-1.5	-0.33	0.0	0.0	0.0	6.7	22.7	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		296.5	-60.4	4.4	-22.3	-1.5	-0.33	0.0	1.9	0.0	6.7	24.6	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		274.1	-59.7	4.2	-23.8	-1.9	-0.21	0.0	0.3	0.0	6.7	21.0	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		273.6	-59.7	4.2	-22.4	-1.5	-0.13	0.0	0.2	0.0	6.7	22.8	
Motor & Pump P 1601 A	CNEL	96.3	2	272.3	-59.7	4.0	-20.7	-1.2		0.0	0.0	0.0	6.7	25.4	
Motor & Pump P 1601 B	CNEL	96.3	2	271.0	-59.7	4.0	-20.7	-1.2		0.0	0.0	0.0	6.7	25.4	
Motor & Pump P 1602 A	CNEL	96.3	2	270.1	-59.6	4.0	-20.8	-1.2		0.0	0.0	0.0	6.7	25.4	
Motor & Pump P 1602 B	CNEL	96.5	2	268.8	-59.6	4.0	-20.8	-1.2		0.0	0.0	0.0	6.7	25.5	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	288.8	-60.2	4.4	-20.5	-1.3	-0.19	0.0	1.8	0.0	6.7	27.2	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	286.5	-60.1	4.3	-22.7	-1.6	-0.19	0.0	3.4	0.0	6.7	26.4	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	285.4	-60.1	4.3	-22.8	-1.6	-0.19	0.0	3.5	0.0	6.7	26.4	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	295.3	-60.4	4.4	-22.4	-1.5	-0.33	0.0	2.4	0.0	6.7	25.5	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	294.5	-60.4	4.4	-22.5	-1.5	-0.33	0.0	3.9	0.0	6.7	26.9	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	277.0	-59.8	4.3	-23.3	-1.7	-0.02	0.0	0.0	0.0	6.7	22.5	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	279.0	-59.9	4.3	-23.2	-1.7	-0.08	0.0	0.0	0.0	6.7	22.5	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	282.7	-60.0	4.3	-23.4	-1.7	-0.18	0.0	0.0	0.0	6.7	22.0	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	281.1	-60.0	4.3	-23.1	-1.6	-0.14	0.0	0.0	0.0	6.7	22.5	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	368.0	-62.3	4.7	-15.4	-0.5	-0.13	0.0	0.0	-38.6	0.0	22.5	
Tank Farm Pump 1	CNEL	99.0	3	166.5	-55.4	3.5	-7.8	-1.0		0.0	3.7	0.0	6.7	48.7	
Tank Farm Pump 2	CNEL	99.0	3	169.6	-55.6	3.5	-24.3	-1.2		0.0	2.9	0.0	6.7	31.0	
Tank Farm Pump 3	CNEL	99.0	3	171.2	-55.7	3.6	-24.4	-1.2		0.0	4.5	0.0	6.7	32.5	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	455.5	-64.2	4.0	-11.8	-2.9	-0.03	0.0	0.1	-16.8	0.0	20.8	
XF-1502 Splitter Area 1	CNEL	104.5		282.7	-60.0	2.7	-16.7	-1.0	0.00	-3.0	0.0	0.0	6.7	33.1	
XF-1502 Splitter Area 2	CNEL	104.5		284.4	-60.1	2.7	-16.5	-1.0		-3.0	0.0	0.0	6.7	33.3	
XF-1504 Splitter Area 1	CNEL	104.5		278.8	-59.9	2.7	-16.9	-1.0	-0.01	-3.0	0.0	0.0	6.7	33.1	
XF-1504 Splitter Area 2	CNEL	104.5		280.6	-60.0	2.7	-14.8	-1.0		-3.1	0.0	0.0	6.7	35.0	
XF 304, XF 321	CNEL	110.5	56	332.7	-61.4	2.5	-14.0	-0.5		-1.7	0.0	0.0	6.7	42.0	
XF 313, XF 314	CNEL	113.0	18	324.4	-61.2	2.5	-17.7	-0.8		-2.7	0.0	0.0	6.7	39.7	
XF 335-1, XF 335-2	CNEL	113.4	54	329.0	-61.3	2.5	-14.8	-0.7	0.00	-1.9	0.0	0.0	6.7	43.9	
XF 503	CNEL	113.0	21	335.4	-61.5	2.9	-15.9	-1.0	-0.47	-2.9	0.0	0.0	6.7	40.8	
XF - 1601	CNEL	96.6		271.3	-59.7	2.6	-6.4	-0.7		-2.1	0.0	0.0	6.7	37.0	
XF - 1602	CNEL	96.6		266.2	-59.5	2.6	-6.4	-0.7		-2.1	0.0	0.0	6.7	37.2	
XF Module 1510	CNEL	108.3		291.3	-60.3	2.7	-17.1	-1.1	-0.22	-3.0	0.0	0.0	6.7	36.1	
XF Module 1519	CNEL	109.0		288.8	-60.2	2.7	-17.4	-1.0	-0.21	-3.0	0.0	0.0	6.7	36.5	
Lakewood NB	CNEL		606								13.7			35.1	
Lakewood SB	CNEL		606								13.6			35.1	
Somerset Ave EB	CNEL		917								4.8			24.0	
Somerset Ave WB	CNEL		917								4.6			24.3	
Downey Ave NB	CNEL		608								10.6			33.4	
Downey Ave SB	CNEL		608								10.6			33.4	
Construction / Renewable Fuels Truck Tr	CNEL		1368								6.0			37.6	
Crude Operatoin Truck Truck Traffic	CNEL		520								11.6			33.7	
Receiver HWES Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.5 dB(A) Ld 7-19 dB(A) Leq,N 58.1 dB(A) Le 19-22 dB(A) CNEL 66.4 dB(A) Lmax day hr dB(A) Ld 7-															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	383.5	-62.7	5.1	-8.2	-2.8	-0.09	0.0	0.2	-10.8	0.0	29.7	
Air Compressor C 1	CNEL	110.0	5	222.5	-57.9	4.6	-20.8	-0.6		0.0	11.4	0.0	6.7	53.4	
Air Compressor Pump	CNEL	100.3		410.9	-63.3	5.1	-18.7	-2.0	-0.45	0.0	0.0	0.0	6.7	27.7	
Blower F 401	CNEL	113.0		330.3	-61.4	4.4	-9.2	-0.4	-1.30	0.0	0.0	0.0	6.7	51.8	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	595.2	-66.5	5.0	-14.7	-1.1		0.0	0.3	0.0	6.7	28.3	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	281.9	-60.0	4.2	-20.5	-0.7	-0.55	-4.9	0.0	0.0	6.7	28.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	278.1	-59.9	4.2	-20.2	-1.1	-1.01	0.0	0.0	0.0	6.7	29.2	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	272.3	-59.7	4.1	-8.8	-0.8	-0.25	0.2	0.2	0.0	6.7	48.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	281.8	-60.0	4.2	-20.0	-0.7	-0.14	-7.8	0.0	0.0	6.7	32.9	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	280.1	-59.9	4.1	-22.5	-0.9	-0.51	-7.8	0.0	0.0	6.7	22.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	274.5	-59.8	4.1	-11.8	-0.7		4.6	0.0	0.0	6.7	43.6	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	457.4	-64.2	4.9	-14.0	-1.7		0.0	0.0	-3.0	9.2	44.2	
Construciton Control Room Max Day	CNEL	123.7	5461	457.4	-64.2	4.9	-14.0	-1.7		0.0	0.0	-3.0	0.0	45.7	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	755.4	-68.6	4.9	-14.9	-3.4		0.0	0.6	-3.0	0.0	39.3	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	668.1	-67.5	3.8	-7.5	-4.6		0.0	0.3	-3.0	0.0	45.2	
Construction H2 Plant Max Day	CNEL	123.7	9281	360.2	-62.1	4.8	-6.9	-2.9	-0.05	0.0	0.2	-3.0	0.0	53.8	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	360.2	-62.1	4.8	-6.9	-2.9	-0.05	0.0	0.2	-3.0	9.2	52.3	
Construction PreTreat Building Max Day	CNEL	123.7	6360	552.4	-65.8	4.8	-13.6	-2.3		0.0	0.1	-3.0	0.0	43.8	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	552.4	-65.8	4.8	-13.6	-2.3		0.0	0.1	-3.0	9.2	42.3	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction Unit A Construction Max Day	CNEL	123.7	3185	217.8	-57.8	4.3	-5.6	-2.4		0.0	0.2	-3.0	0.0	59.4	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	512.0	-65.2	5.1	-7.9	-3.1	-0.04	0.0	0.1	-3.0	9.2	48.1	
Construction Unit B Max Day	CNEL	123.7	20817	512.0	-65.2	5.1	-7.9	-3.1	-0.04	0.0	0.1	-3.0	0.0	49.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	307.3	-60.7	4.4	-15.5	-0.8	-0.32	-6.8	0.0	0.0	6.7	24.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	301.4	-60.6	4.3	-10.9	-0.9	-0.44	3.5	0.0	0.0	6.7	39.5	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	321.1	-61.1	4.0	-13.5	-0.9	-0.24	-7.0	0.0	0.0	6.7	28.5	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	311.6	-60.9	4.1	-7.8	-1.2	-0.40	3.2	0.0	0.0	6.7	44.4	
Cooling Tower M 512	CNEL	95.7		310.0	-60.8	4.9	-22.8	-1.3	-0.31	0.0	0.0	0.0	6.7	22.0	
Cooling Tower M 513	CNEL	95.7		309.4	-60.8	4.8	-22.7	-1.3	-0.37	0.0	0.0	0.0	6.7	22.0	
Cooling Tower M 514	CNEL	95.7		310.8	-60.8	4.9	-22.5	-1.3	-0.26	0.0	0.0	0.0	6.7	22.3	
Heater # 5-Heater	CNEL	91.1	13	594.3	-66.5	5.0	-19.3	-1.2		0.0	4.0	0.0	6.7	22.7	
Heater # 5-Heater	CNEL	91.1	13	591.1	-66.4	5.0	-19.3	-1.2		0.0	0.0	0.0	6.7	18.8	
Heater # 5-Heater	CNEL	91.1	13	587.9	-66.4	5.0	-18.5	-1.2		0.0	0.5	0.0	6.7	20.2	
Hydro Heater H-402	CNEL	98.1		298.4	-60.5	4.6	-10.2	-0.5	-0.63	0.0	0.0	0.0	6.7	37.5	
Motor & Pump P 56A/B	CNEL	93.7		280.6	-60.0	4.8	-18.2	-1.2	-0.22	0.0	0.0	0.0	6.7	25.6	
Motor & Pump P 120/121	CNEL	96.2	2	234.3	-58.4	4.7	-12.2	-0.8		0.0	0.7	0.0	6.7	36.8	
Motor & Pump P 211/212	CNEL	93.7		297.5	-60.5	5.0	-8.8	-1.7	-1.66	0.0	0.0	0.0	6.7	32.6	
Motor & Pump P 215/214	CNEL	94.6		292.6	-60.3	5.0	-19.1	-1.1	-0.92	0.0	0.0	0.0	6.7	24.9	
Motor & Pump P 216	CNEL	98.3		295.2	-60.4	4.9	-22.4	-1.7	-0.13	0.0	0.0	0.0	6.7	25.2	
Motor & Pump P 217/218	CNEL	93.7		295.6	-60.4	5.2	-17.8	-1.2	-0.96	0.0	0.0	0.0	6.7	25.2	
Motor & Pump P 300	CNEL	97.1	2	227.6	-58.1	4.7	-10.9	-0.8	-0.45	0.0	0.2	0.0	6.7	38.3	
Motor & Pump P 301	CNEL	102.1	2	229.1	-58.2	4.7	-10.8	-0.8	-0.49	0.0	0.1	0.0	6.7	43.4	
Motor & Pump P 302	CNEL	97.1	2	225.9	-58.1	4.7	-11.1	-0.8	-0.41	0.0	0.3	0.0	6.7	38.3	
Motor & Pump P 303	CNEL	97.1	2	224.5	-58.0	4.6	-11.0	-0.8	-0.38	0.0	0.3	0.0	6.7	38.4	
Motor & Pump P 305	CNEL	97.5	2	223.1	-58.0	4.6	-11.2	-0.8	-0.35	0.0	0.2	0.0	6.7	38.7	
Motor & Pump P 306	CNEL	112.6	4	214.7	-57.6	4.3	-16.9	-0.8	-0.17	0.0	3.4	0.0	6.7	51.5	
Motor & Pump P 307	CNEL	102.1	2	233.7	-58.4	4.7	-10.3	-0.8	-0.60	0.0	0.2	0.0	6.7	43.6	
Motor & Pump P 309	CNEL	97.5	2	221.7	-57.9	4.6	-11.5	-0.8	-0.31	0.0	0.2	0.0	6.7	38.5	
Motor & Pump P 312	CNEL	101.5	2	254.4	-59.1	4.9	-18.2	-0.8	-0.65	0.0	0.1	0.0	6.7	34.4	
Motor & Pump P 313	CNEL	101.5	2	256.1	-59.2	4.9	-18.1	-0.8	-0.67	0.0	0.1	0.0	6.7	34.4	
Motor & Pump P 315	CNEL	102.9	2	262.2	-59.4	4.8	-17.6	-0.8	-0.73	0.0	0.0	0.0	6.7	35.9	
Motor & Pump P 316	CNEL	102.9	2	264.0	-59.4	4.8	-17.9	-0.8	-0.72	0.0	4.2	0.0	6.7	39.7	
Motor & Pump P 317	CNEL	102.9	2	266.0	-59.5	4.8	-17.9	-0.8	-0.70	0.0	5.8	0.0	6.7	41.2	
Motor & Pump P 318	CNEL	100.2	1	260.4	-59.3	5.0	-17.4	-0.8	-0.73	0.0	0.0	0.0	6.7	33.7	
Motor & Pump P 319	CNEL	100.2	1	259.0	-59.3	5.0	-17.8	-0.8	-0.71	0.0	0.0	0.0	6.7	33.3	
Motor & Pump P 327	CNEL	111.2	3	207.1	-57.3	4.6	-19.0	-1.1	-0.03	0.0	4.8	0.0	6.7	49.8	
Motor & Pump P 328	CNEL	109.9	5	220.1	-57.8	4.4	-11.8	-0.8	-0.28	0.0	1.3	0.0	6.7	51.6	
Motor & Pump P 329	CNEL	110.2	5	217.4	-57.7	4.4	-14.1	-0.8	-0.23	0.0	2.2	0.0	6.7	50.6	
Motor & Pump P 451	CNEL	93.7		305.3	-60.7	4.9	-14.4	-1.4	-0.78	0.0	0.0	0.0	6.7	28.0	
Motor & Pump P 453	CNEL	93.7		317.1	-61.0	4.9	-16.8	-1.4	-0.87	0.0	0.0	0.0	6.7	25.2	
Motor & Pump P 454	CNEL	93.7		304.3	-60.7	4.9	-14.4	-1.4	-0.84	0.0	0.0	0.0	6.7	27.9	
Motor & Pump P 457	CNEL	93.7		318.5	-61.1	4.9	-16.3	-1.4	-0.90	0.0	0.0	0.0	6.7	25.6	
Motor & Pump P 458	CNEL	93.7		305.7	-60.7	4.9	-13.8	-1.2	-0.58	0.0	0.0	0.0	6.7	28.9	
Motor & Pump P 459	CNEL	93.7		303.4	-60.6	4.9	-14.5	-1.4	-0.82	0.0	0.0	0.0	6.7	27.8	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		285.3	-60.1	4.9	-16.5	-1.3	-0.32	0.0	0.3	0.0	6.7	29.8	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		283.8	-60.1	4.9	-16.5	-1.2	-0.28	0.0	0.3	0.0	6.7	30.0	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		259.7	-59.3	4.8	-2.8	-3.0	-0.08	0.0	0.0	0.0	6.7	41.7	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		258.7	-59.2	4.8	-2.8	-3.0	-0.06	0.0	0.0	0.0	6.7	41.8	
Motor & Pump P 1601 A	CNEL	96.3	2	299.1	-60.5	4.7	-2.1	-3.3	-0.50	0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 1601 B	CNEL	96.3	2	299.9	-60.5	4.7	-2.1	-3.3	-0.44	0.0	0.0	0.0	6.7	41.3	
Motor & Pump P 1602 A	CNEL	96.3	2	300.7	-60.6	4.7	-3.7	-2.8	-0.23	0.0	0.0	0.0	6.7	40.3	
Motor & Pump P 1602 B	CNEL	96.5	2	301.6	-60.6	4.7	-8.3	-1.5		0.0	1.9	0.0	6.7	39.4	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	289.3	-60.2	4.9	-14.3	-1.3	-0.26	0.0	0.0	0.0	6.7	32.2	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	285.0	-60.1	4.9	-9.5	-1.7	-0.25	0.0	0.0	0.0	6.7	36.7	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	282.9	-60.0	4.9	-11.3	-1.5	-0.28	0.0	0.1	0.0	6.7	35.2	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	282.8	-60.0	4.9	-16.9	-1.2	-0.23	0.0	0.3	0.0	6.7	30.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	281.2	-60.0	4.9	-15.1	-1.3	-0.17	0.0	0.2	0.0	6.7	31.9	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	282.0	-60.0	4.9	-2.1	-2.4	-0.49	0.0	0.0	0.0	6.7	42.9	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	280.8	-60.0	4.9	-3.5	-2.1	-0.41	0.0	0.0	0.0	6.7	41.9	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	278.8	-59.9	4.9	-6.4	-1.8	-0.27	0.0	0.0	0.0	6.7	39.5	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	279.7	-59.9	4.9	-4.5	-2.0	-0.32	0.0	0.0	0.0	6.7	41.1	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	365.8	-62.3	5.0	-6.5	-0.8	-0.10	0.0	0.0	-38.6	0.0	31.5	
Tank Farm Pump 1	CNEL	99.0	3	496.2	-64.9	4.9	-21.4	-2.1		0.0	2.4	0.0	6.7	24.5	
Tank Farm Pump 2	CNEL	99.0	3	514.1	-65.2	4.9	-17.8	-2.2		0.0	0.0	0.0	6.7	25.3	
Tank Farm Pump 3	CNEL	99.0	3	519.2	-65.3	4.9	-17.2	-2.2		0.0	0.0	0.0	6.7	25.8	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	284.2	-60.1	3.7	-5.5	-2.9	-0.02	0.0	0.2	-16.8	0.0	31.0	
XF-1502 Splitter Area 1	CNEL	104.5		282.8	-60.0	2.7	-2.2	-1.5	0.00	-4.0	0.0	0.0	6.7	46.1	
XF-1502 Splitter Area 2	CNEL	104.5		286.1	-60.1	2.7	-2.1	-1.7		-4.0	0.0	0.0	6.7	46.0	
XF-1504 Splitter Area 1	CNEL	104.5		285.1	-60.1	2.7	-4.5	-2.0	-0.21	-4.3	0.0	0.0	6.7	42.8	
XF-1504 Splitter Area 2	CNEL	104.5		288.3	-60.2	2.7	-4.6	-2.0	-0.13	-4.2	0.0	0.0	6.7	42.8	
XF 304, XF 321	CNEL	110.5	56	228.0	-58.2	2.5	-5.1	-0.6	-0.30	-2.3	0.2	0.0	6.7	53.5	
XF 313, XF 314	CNEL	113.0	18	199.6	-57.0	2.6	-9.6	-0.6		-3.3	0.6	0.0	6.7	52.4	
XF 335-1, XF 335-2	CNEL	113.4	54	216.7	-57.7	2.6	-5.1	-1.0	-0.32	-3.0	1.3	0.0	6.7	56.9	
XF 503	CNEL	113.0	21	282.0	-60.0	2.9	-7.6	-2.5	-0.75	-3.5	0.1	0.0	6.7	48.3	
XF - 1601	CNEL	96.6		301.6	-60.6	2.5	-0.3	-1.0		-2.8	0.0	0.0	6.7	41.1	
XF - 1602	CNEL	96.6		304.9	-60.7	2.5	-0.3	-1.1		-2.8	0.0	0.0	6.7	41.0	
XF Module 1510	CNEL	108.3		286.4	-60.1	2.7	-3.5	-1.7	-0.13	-4.1	0.0	0.0	6.7	48.2	
XF Module 1519	CNEL	109.0		281.7	-60.0	2.7	-2.1	-1.8	-0.08	-4.2	0.0	0.0	6.7	50.2	
Lakewood NB	CNEL		606								7.6			27.9	
Lakewood SB	CNEL		606								7.7			27.7	
Somerset Ave EB	CNEL		917								2.2			25.0	
Somerset Ave WB	CNEL		917								2.2			25.2	
Downey Ave NB	CNEL		608								1.6			51.6	
Downey Ave SB	CNEL		608								1.7			51.2	
Construction / Renewable Fuels Truck Tr	CNEL		1368								3.7			33.1	
Crude Operatoin Truck Truck Traffic	CNEL		520								5.8			25.7	
Receiver PHS Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.3 dB(A) Ld 7-19 dB(A) Leq,N 67.2 dB(A) Le 19-22 dB(A) CNEL 74.8 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	315.2	-61.0	4.9	-6.2	-2.3	-0.10	0.0	0.7	-10.8	0.0	34.2	
Air Compressor C 1	CNEL	110.0	5	214.4	-57.6	4.9	-18.5	-0.5	-0.42	0.0	3.1	0.0	6.7	47.7	
Air Compressor Pump	CNEL	100.3		398.3	-63.0	5.3	-23.4	-3.0	-0.76	0.0	2.8	0.0	6.7	24.9	
Blower F 401	CNEL	113.0		288.3	-60.2	4.7	-11.4	-0.3	-0.89	0.0	0.1	0.0	6.7	51.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	588.6	-66.4	5.4	-19.6	-1.2		0.0	0.8	0.0	6.7	24.3	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	238.4	-58.5	4.2	-19.6	-0.6		-7.8	0.3	0.0	6.7	29.3	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	238.0	-58.5	4.2	-19.3	-0.8	-0.12	0.0	0.3	0.0	6.7	33.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	227.3	-58.1	4.1	-6.2	-0.9	-0.03	2.6	0.7	0.0	6.7	55.3	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	233.0	-58.3	4.1	-20.9	-0.6		-7.7	0.4	0.0	6.7	34.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	238.3	-58.5	4.2	-19.6	-0.6	-0.01	-7.6	0.3	0.0	6.7	28.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	222.5	-57.9	4.0	-17.7	-0.5		2.5	1.6	0.0	6.7	39.1	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	476.6	-64.6	5.3	-4.0	-3.1	-0.44	0.0	0.8	-3.0	9.2	53.2	
Construciton Control Room Max Day	CNEL	123.7	5461	476.6	-64.6	5.3	-4.0	-3.1	-0.44	0.0	0.8	-3.0	0.0	54.7	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	800.3	-69.1	5.6	-10.1	-4.2		0.0	1.1	-3.0	0.0	44.0	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	748.3	-68.5	5.4	-8.0	-4.1		0.0	1.7	-3.0	0.0	47.2	
Construction H2 Plant Max Day	CNEL	123.7	9281	367.7	-62.3	5.1	-6.0	-2.4	-0.50	0.0	0.8	-3.0	0.0	55.3	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	367.7	-62.3	5.1	-6.0	-2.4	-0.50	0.0	0.8	-3.0	9.2	53.8	
Construction PreTreat Building Max Day	CNEL	123.7	6360	586.5	-66.4	5.4	-4.2	-3.7	-0.05	0.0	1.2	-3.0	0.0	53.0	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	586.5	-66.4	5.4	-4.2	-3.7	-0.05	0.0	1.2	-3.0	9.2	51.5	
Construction Unit A Construction Max Day	CNEL	123.7	3185	174.6	-55.8	4.1	-4.3	-1.8		0.0	1.4	-3.0	0.0	64.3	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	508.1	-65.1	5.3	-7.2	-3.2	-0.53	0.0	0.9	-3.0	9.2	49.3	
Construction Unit B Max Day	CNEL	123.7	20817	508.1	-65.1	5.3	-7.2	-3.2	-0.53	0.0	0.9	-3.0	0.0	50.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	294.8	-60.4	4.6	-17.5	-0.8	-0.69	-7.8	10.6	0.0	6.7	32.6	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	284.4	-60.1	4.5	-4.6	-1.3	-0.74	1.6	0.9	0.0	6.7	44.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	316.5	-61.0	4.3	-18.9	-0.9	-0.63	-7.8	0.3	0.0	6.7	22.6	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	301.1	-60.6	4.3	-8.7	-1.0	-0.16	1.4	1.2	0.0	6.7	43.8	
Cooling Tower M 512	CNEL	95.7		293.1	-60.3	5.0	-21.3	-1.1	-0.73	0.0	2.9	0.0	6.7	26.8	
Cooling Tower M 513	CNEL	95.7		291.9	-60.3	5.0	-6.3	-1.3	-0.73	0.0	2.4	0.0	6.7	41.1	
Cooling Tower M 514	CNEL	95.7		294.4	-60.4	5.0	-21.7	-1.1	-0.73	0.0	6.0	0.0	6.7	29.5	
Heater # 5-Heater	CNEL	91.1	13	589.0	-66.4	5.4	-21.9	-1.5		0.0	2.5	0.0	6.7	18.8	
Heater # 5-Heater	CNEL	91.1	13	585.0	-66.3	5.4	-21.6	-1.4		0.0	0.5	0.0	6.7	17.4	
Heater # 5-Heater	CNEL	91.1	13	580.8	-66.3	5.4	-21.6	-1.4		0.0	0.6	0.0	6.7	17.5	
Hydro Heater H-402	CNEL	98.1		271.2	-59.7	4.9	-14.1	-0.5	-0.56	0.0	1.0	0.0	6.7	35.9	
Motor & Pump P 56A/B	CNEL	93.7		255.2	-59.1	4.9	-5.0	-1.9	-0.57	0.0	2.0	0.0	6.7	40.6	
Motor & Pump P 120/121	CNEL	96.2	2	220.5	-57.9	4.8	-4.6	-1.0	-0.08	0.0	2.1	0.0	6.7	46.3	
Motor & Pump P 211/212	CNEL	93.7		256.1	-59.2	5.0	-19.9	-1.2	-0.22	0.0	0.6	0.0	6.7	25.4	
Motor & Pump P 215/214	CNEL	94.6		252.4	-59.0	5.0	-20.7	-1.2	-0.21	0.0	0.8	0.0	6.7	25.9	
Motor & Pump P 216	CNEL	98.3		250.9	-59.0	4.9	-20.1	-1.2	-0.16	0.0	1.4	0.0	6.7	30.8	
Motor & Pump P 217/218	CNEL	93.7		254.6	-59.1	5.2	-21.1	-1.3	-0.22	0.0	0.7	0.0	6.7	24.5	
Motor & Pump P 300	CNEL	97.1	2	209.0	-57.4	4.8	-3.0	-1.4	-0.43	0.0	0.6	0.0	6.7	46.9	
Motor & Pump P 301	CNEL	102.1	2	209.8	-57.4	4.8	-3.0	-1.4	-0.44	0.0	0.8	0.0	6.7	52.0	
Motor & Pump P 302	CNEL	97.1	2	208.1	-57.4	4.8	-3.0	-1.4	-0.43	0.0	1.6	0.0	6.7	48.0	
Motor & Pump P 303	CNEL	97.1	2	207.4	-57.3	4.8	-3.5	-1.2	-0.36	0.0	2.1	0.0	6.7	48.2	
Motor & Pump P 305	CNEL	97.5	2	206.7	-57.3	4.8	-6.4	-0.8	-0.28	0.0	1.4	0.0	6.7	45.5	
Motor & Pump P 306	CNEL	112.6	4	202.7	-57.1	4.5	-1.5	-2.4	-0.43	0.0	1.7	0.0	6.7	64.2	
Motor & Pump P 307	CNEL	102.1	2	212.3	-57.5	4.8	-8.6	-0.7	-0.20	0.0	0.1	0.0	6.7	46.6	
Motor & Pump P 309	CNEL	97.5	2	206.0	-57.3	4.8	-7.3	-0.7	-0.28	0.0	7.5	0.0	6.7	50.8	
Motor & Pump P 312	CNEL	101.5	2	224.3	-58.0	5.0	-5.7	-0.9	-0.49	0.0	1.4	0.0	6.7	49.5	
Motor & Pump P 313	CNEL	101.5	2	225.3	-58.0	5.0	-5.7	-0.9	-0.49	0.0	2.8	0.0	6.7	50.8	
Motor & Pump P 315	CNEL	102.9	2	229.0	-58.2	4.9	-18.2	-0.8	-0.17	0.0	12.6	0.0	6.7	49.7	
Motor & Pump P 316	CNEL	102.9	2	230.2	-58.2	4.9	-7.9	-1.0	-0.50	0.0	3.4	0.0	6.7	50.3	
Motor & Pump P 317	CNEL	102.9	2	231.5	-58.3	4.9	-16.7	-0.7	-0.52	0.0	11.5	0.0	6.7	49.7	
Motor & Pump P 318	CNEL	100.2	1	228.2	-58.2	5.1	-16.9	-0.8	-0.15	0.0	9.0	0.0	6.7	45.0	
Motor & Pump P 319	CNEL	100.2	1	227.3	-58.1	5.1	-16.4	-0.8	-0.14	0.0	8.5	0.0	6.7	45.0	
Motor & Pump P 327	CNEL	111.2	3	198.8	-57.0	4.7	-2.3	-1.9	-0.14	0.0	4.9	0.0	6.7	66.2	
Motor & Pump P 328	CNEL	109.9	5	205.3	-57.2	4.6	-3.8	-1.1	-0.35	0.0	7.2	0.0	6.7	65.9	
Motor & Pump P 329	CNEL	110.2	5	204.0	-57.2	4.6	-1.6	-1.2	-0.41	0.0	6.4	0.0	6.7	67.4	
Motor & Pump P 451	CNEL	93.7		276.3	-59.8	5.0	-12.0	-1.3	-1.25	0.0	5.4	0.0	6.7	36.3	
Motor & Pump P 453	CNEL	93.7		285.9	-60.1	5.0	-7.3	-1.8	-1.21	0.0	2.5	0.0	6.7	37.4	
Motor & Pump P 454	CNEL	93.7		274.9	-59.8	5.0	-12.1	-1.3	-1.27	0.0	5.4	0.0	6.7	36.2	
Motor & Pump P 457	CNEL	93.7		286.9	-60.1	5.0	-7.3	-1.8	-1.18	0.0	0.8	0.0	6.7	35.7	
Motor & Pump P 458	CNEL	93.7		277.2	-59.8	5.0	-12.0	-1.3	-1.22	0.0	5.9	0.0	6.7	36.9	
Motor & Pump P 459	CNEL	93.7		274.3	-59.8	5.0	-12.2	-1.3	-1.24	0.0	5.4	0.0	6.7	36.2	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		271.5	-59.7	5.0	-8.1	-1.6	-0.26	0.0	2.3	0.0	6.7	40.5	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		270.7	-59.6	5.0	-12.2	-1.3	-0.26	0.0	4.3	0.0	6.7	38.8	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.2	-59.4	5.0	-13.6	-1.0	-0.26	0.0	1.7	0.0	6.7	34.5	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		262.7	-59.4	5.0	-9.3	-1.2	-0.35	0.0	0.4	0.0	6.7	37.3	
Motor & Pump P 1601 A	CNEL	96.3	2	295.7	-60.4	4.9	-5.3	-1.8	-1.01	0.0	2.0	0.0	6.7	41.3	
Motor & Pump P 1601 B	CNEL	96.3	2	297.1	-60.5	4.9	-3.7	-2.0	-1.00	0.0	1.2	0.0	6.7	42.0	
Motor & Pump P 1602 A	CNEL	96.3	2	298.2	-60.5	4.9	-2.2	-2.2	-0.99	0.0	0.6	0.0	6.7	42.6	
Motor & Pump P 1602 B	CNEL	96.5	2	299.6	-60.5	4.9	-0.9	-2.4	-0.96	0.0	0.5	0.0	6.7	43.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	279.2	-59.9	5.1	-11.5	-1.3	-0.40	0.0	0.1	0.0	6.7	35.4	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	276.7	-59.8	5.1	-13.4	-1.2	-0.85	0.0	0.3	0.0	6.7	33.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	275.5	-59.8	5.1	-11.3	-1.2	-0.84	0.0	0.1	0.0	6.7	35.3	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	270.4	-59.6	5.0	-11.9	-1.3	-0.26	0.0	0.6	0.0	6.7	35.9	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	269.5	-59.6	5.0	-11.6	-1.3	-0.26	0.0	1.8	0.0	6.7	37.4	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	279.1	-59.9	5.1	-6.6	-1.6	-0.77	0.0	1.1	0.0	6.7	40.4	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	277.1	-59.8	5.1	-5.4	-1.7	-0.69	0.0	1.9	0.0	6.7	42.4	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	273.5	-59.7	5.1	-1.5	-2.2	-0.72	0.0	1.0	0.0	6.7	44.9	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	275.1	-59.8	5.1	-3.2	-2.1	-0.59	0.0	1.7	0.0	6.7	44.2	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	299.0	-60.5	5.0	-6.9	-0.6	-0.14	0.0	1.2	-38.6	0.0	34.2	
Tank Farm Pump 1	CNEL	99.0	3	535.9	-65.6	5.5	-19.1	-2.2		0.0	0.9	0.0	6.7	25.3	
Tank Farm Pump 2	CNEL	99.0	3	556.3	-65.9	5.5	-18.7	-2.2		0.0	3.2	0.0	6.7	27.6	
Tank Farm Pump 3	CNEL	99.0	3	562.0	-66.0	5.5	-16.8	-2.2		0.0	2.7	0.0	6.7	28.9	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	146.5	-54.3	2.0	-5.2	-2.0	-0.01	0.0	0.6	-16.8	0.0	36.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF-1502 Splitter Area 1	CNEL	104.5		276.9	-59.8	2.9	-0.3	-2.0	-0.70	-4.5	0.1	0.0	6.7	47.0	
XF-1502 Splitter Area 2	CNEL	104.5		278.7	-59.9	2.9	-4.7	-1.9	-0.66	-4.2	0.2	0.0	6.7	43.1	
XF-1504 Splitter Area 1	CNEL	104.5		280.8	-60.0	2.9	0.0	-1.9	-0.77	-4.2	0.1	0.0	6.7	47.5	
XF-1504 Splitter Area 2	CNEL	104.5		282.6	-60.0	2.9	-4.6	-1.9	-0.71	-4.2	0.3	0.0	6.7	43.0	
XF 304, XF 321	CNEL	110.5	56	205.3	-57.2	2.9	-5.9	-0.4	-0.04	-2.2	0.4	0.0	6.7	54.6	
XF 313, XF 314	CNEL	113.0	18	191.6	-56.6	2.9	-4.0	-0.7		-3.6	2.0	0.0	6.7	59.6	
XF 335-1, XF 335-2	CNEL	113.4	54	199.5	-57.0	2.9	-3.0	-1.0	-0.21	-3.0	1.3	0.0	6.7	60.1	
XF 503	CNEL	113.0	21	248.9	-58.9	2.9	-4.3	-2.6	-0.74	-3.7	0.7	0.0	6.7	53.1	
XF - 1601	CNEL	96.6		298.6	-60.5	2.9	0.0	-1.0		-2.5	0.2	0.0	6.7	42.4	
XF - 1602	CNEL	96.6		303.8	-60.6	2.9	-1.1	-0.9		-2.2	0.3	0.0	6.7	41.6	
XF Module 1510	CNEL	108.3		275.5	-59.8	2.9	-6.5	-1.2	-0.05	-3.6	0.1	0.0	6.7	46.9	
XF Module 1519	CNEL	109.0		272.8	-59.7	2.9	-3.4	-1.6	-0.05	-3.9	0.1	0.0	6.7	50.1	
Lakewood NB	CNEL		606								6.7			27.4	
Lakewood SB	CNEL		606								6.7			27.2	
Somerset Ave EB	CNEL		917								0.6			31.4	
Somerset Ave WB	CNEL		917								0.6			31.4	
Downey Ave NB	CNEL		608								1.1			62.0	
Downey Ave SB	CNEL		608								0.6			64.6	
Construction / Renewable Fuels Truck Tr	CNEL		1368								4.9			35.6	
Crude Operatoin Truck Truck Traffic	CNEL		520								4.3			23.7	
Receiver RMHP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 70.8 dB(A) Ld 7-19 dB(A) Leq,N 61.8 dB(A) Le 19-22 dB(A) CNEL 71.7 dB(A) Lmax day hr dB(A) Ld 7-															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	602.9	-66.6	5.5	-13.2	-2.6	-0.01	0.0	0.2	-10.8	0.0	21.5	
Air Compressor C 1	CNEL	110.0	5	634.9	-67.0	5.6	-22.5	-1.5		0.0	8.9	0.0	6.7	40.0	
Air Compressor Pump	CNEL	100.3		537.0	-65.6	5.4	-18.4	-2.3		0.0	0.0	0.0	6.7	26.2	
Blower F 401	CNEL	113.0		639.8	-67.1	5.4	-18.1	-0.8	-0.11	0.0	0.0	0.0	6.7	39.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	466.6	-64.4	5.3	-17.6	-0.9		0.0	0.9	0.0	6.7	28.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	660.8	-67.4	5.3	-20.7	-1.3	-0.64	0.1	0.0	0.0	6.7	26.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	656.0	-67.3	5.3	-17.1	-1.4	-0.77	0.0	0.0	0.0	6.7	25.9	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	667.1	-67.5	5.3	-19.2	-1.3	-0.79	3.9	0.0	0.0	6.7	33.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	670.8	-67.5	5.3	-22.6	-1.6	-0.72	-3.0	0.0	0.0	6.7	27.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	658.3	-67.4	5.3	-22.4	-1.6	-0.72	-2.9	0.0	0.0	6.7	20.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	679.7	-67.6	5.3	-23.4	-2.2	-0.42	-7.8	0.0	0.0	6.7	10.9	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	419.4	-63.4	5.2	-16.2	-2.2		0.0	0.0	-3.0	9.2	42.5	
Construciton Control Room Max Day	CNEL	123.7	5461	419.4	-63.4	5.2	-16.2	-2.2		0.0	0.0	-3.0	0.0	44.0	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	212.9	-57.6	4.3	-10.8	-1.4		0.0	1.9	-3.0	0.0	57.2	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	73.2	-48.3	3.0	-12.9	-0.5		0.0	0.8	-3.0	0.0	62.7	
Construction H2 Plant Max Day	CNEL	123.7	9281	509.5	-65.1	5.3	-17.4	-2.2		0.0	0.1	-3.0	0.0	41.3	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	509.5	-65.1	5.3	-17.4	-2.2		0.0	0.1	-3.0	9.2	39.8	
Construction PreTreat Building Max Day	CNEL	123.7	6360	317.0	-61.0	4.9	-9.4	-2.0		0.0	0.7	-3.0	0.0	53.9	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	317.0	-61.0	4.9	-9.4	-2.0		0.0	0.7	-3.0	9.2	52.4	
Construction Unit A Construction Max Day	CNEL	123.7	3185	691.4	-67.8	5.5	-19.6	-2.3	-0.56	0.0	0.0	-3.0	0.0	35.9	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	456.5	-64.2	5.2	-12.8	-2.7		0.0	0.4	-3.0	9.2	45.1	
Construction Unit B Max Day	CNEL	123.7	20817	456.5	-64.2	5.2	-12.8	-2.7		0.0	0.4	-3.0	0.0	46.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	588.0	-66.4	5.3	-20.9	-1.5		0.0	0.5	0.0	6.7	21.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	600.3	-66.6	5.3	-22.9	-1.8		-7.8	0.0	0.0	6.7	10.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	563.9	-66.0	5.0	-15.1	-1.2		0.0	0.0	0.0	6.7	29.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	581.6	-66.3	5.1	-23.2	-1.9		-7.8	7.0	0.0	6.7	20.2	
Cooling Tower M 512	CNEL	95.7		595.4	-66.5	5.5	-23.7	-2.4		0.0	0.0	0.0	6.7	15.3	
Cooling Tower M 513	CNEL	95.7		596.8	-66.5	5.5	-23.5	-2.3		0.0	0.0	0.0	6.7	15.5	
Cooling Tower M 514	CNEL	95.7		593.9	-66.5	5.5	-24.0	-2.4		0.0	0.0	0.0	6.7	15.0	
Heater # 5-Heater	CNEL	91.1	13	461.7	-64.3	5.3	-22.9	-1.2		0.0	1.8	0.0	6.7	19.5	
Heater # 5-Heater	CNEL	91.1	13	465.5	-64.4	5.3	-22.9	-1.2		0.0	4.0	0.0	6.7	21.6	
Heater # 5-Heater	CNEL	91.1	13	469.5	-64.4	5.3	-23.5	-1.4		0.0	2.3	0.0	6.7	19.1	
Hydro Heater H-402	CNEL	98.1		622.0	-66.9	5.5	-23.4	-1.6		0.0	0.0	0.0	6.7	18.4	
Motor & Pump P 56A/B	CNEL	93.7		627.5	-66.9	5.5	-24.8	-4.0	-0.19	0.0	0.0	0.0	6.7	9.8	
Motor & Pump P 120/121	CNEL	96.2	2	635.3	-67.1	5.6	-20.7	-1.8	-0.23	0.0	0.0	0.0	6.7	18.7	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 211/212	CNEL	93.7		650.7	-67.3	5.6	-20.8	-2.4	-0.58	0.0	0.0	0.0	6.7	14.8	
Motor & Pump P 215/214	CNEL	94.6		650.1	-67.3	5.6	-24.8	-4.1	-0.58	0.0	0.0	0.0	6.7	10.1	
Motor & Pump P 216	CNEL	98.3		657.1	-67.3	5.5	-20.5	-2.4	-0.73	0.0	0.0	0.0	6.7	19.5	
Motor & Pump P 217/218	CNEL	93.7		650.6	-67.3	5.7	-21.3	-2.5	-0.59	0.0	0.0	0.0	6.7	14.4	
Motor & Pump P 300	CNEL	97.1	2	647.0	-67.2	5.6	-20.2	-1.8	-0.23	0.0	0.0	0.0	6.7	19.9	
Motor & Pump P 301	CNEL	102.1	2	647.2	-67.2	5.6	-20.2	-1.8	-0.23	0.0	0.0	0.0	6.7	24.9	
Motor & Pump P 302	CNEL	97.1	2	646.9	-67.2	5.6	-20.2	-1.8	-0.23	0.0	0.0	0.0	6.7	19.9	
Motor & Pump P 303	CNEL	97.1	2	646.9	-67.2	5.6	-22.1	-2.0	-0.22	0.0	0.0	0.0	6.7	17.8	
Motor & Pump P 305	CNEL	97.5	2	646.8	-67.2	5.6	-20.0	-1.8		0.0	0.0	0.0	6.7	20.7	
Motor & Pump P 306	CNEL	112.6	4	646.2	-67.2	5.5	-22.4	-2.1		0.0	0.5	0.0	6.7	33.7	
Motor & Pump P 307	CNEL	102.1	2	647.6	-67.2	5.6	-21.1	-1.9	-0.23	0.0	0.0	0.0	6.7	24.0	
Motor & Pump P 309	CNEL	97.5	2	646.7	-67.2	5.6	-23.4	-2.2		0.0	0.0	0.0	6.7	16.9	
Motor & Pump P 312	CNEL	101.5	2	649.7	-67.2	5.6	-16.2	-1.8	-0.53	0.0	0.0	0.0	6.7	27.9	
Motor & Pump P 313	CNEL	101.5	2	649.9	-67.2	5.6	-19.6	-1.8	-0.53	0.0	0.0	0.0	6.7	24.6	
Motor & Pump P 315	CNEL	102.9	2	650.9	-67.3	5.6	-16.2	-1.8	-0.53	0.0	0.0	0.0	6.7	29.3	
Motor & Pump P 316	CNEL	102.9	2	651.2	-67.3	5.6	-16.2	-1.9	-0.53	0.0	0.0	0.0	6.7	29.3	
Motor & Pump P 317	CNEL	102.9	2	651.4	-67.3	5.6	-16.1	-1.9	-0.53	0.0	0.0	0.0	6.7	29.3	
Motor & Pump P 318	CNEL	100.2	1	650.2	-67.3	5.6	-16.3	-1.8	-0.53	0.0	0.0	0.0	6.7	26.6	
Motor & Pump P 319	CNEL	100.2	1	650.0	-67.3	5.6	-16.3	-1.8	-0.53	0.0	0.0	0.0	6.7	26.6	
Motor & Pump P 327	CNEL	111.2	3	646.5	-67.2	5.6	-24.5	-3.6		0.0	1.8	0.0	6.7	30.1	
Motor & Pump P 328	CNEL	109.9	5	646.5	-67.2	5.5	-23.2	-2.1		0.0	0.0	0.0	6.7	29.6	
Motor & Pump P 329	CNEL	110.2	5	646.3	-67.2	5.5	-23.5	-2.2		0.0	0.0	0.0	6.7	29.4	
Motor & Pump P 451	CNEL	93.7		622.1	-66.9	5.5	-21.7	-2.4		0.0	0.2	0.0	6.7	15.0	
Motor & Pump P 453	CNEL	93.7		621.5	-66.9	5.5	-17.6	-2.3		0.0	0.0	0.0	6.7	19.0	
Motor & Pump P 454	CNEL	93.7		623.5	-66.9	5.5	-21.8	-2.5		0.0	0.2	0.0	6.7	14.8	
Motor & Pump P 457	CNEL	93.7		621.9	-66.9	5.5	-17.6	-2.3		0.0	0.0	0.0	6.7	19.0	
Motor & Pump P 458	CNEL	93.7		620.9	-66.9	5.5	-21.7	-2.4		0.0	0.2	0.0	6.7	15.0	
Motor & Pump P 459	CNEL	93.7		623.3	-66.9	5.5	-21.9	-2.5		0.0	0.0	0.0	6.7	14.6	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		603.2	-66.6	5.5	-24.8	-3.8	-0.24	0.0	0.0	0.0	6.7	13.0	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		603.0	-66.6	5.5	-24.8	-3.8	-0.23	0.0	0.0	0.0	6.7	13.0	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		590.2	-66.4	5.5	-24.6	-3.6	-0.21	0.0	0.0	0.0	6.7	12.8	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		590.1	-66.4	5.5	-23.8	-3.0	-0.18	0.0	0.0	0.0	6.7	14.1	
Motor & Pump P 1601 A	CNEL	96.3	2	575.1	-66.2	5.4	-19.9	-2.2		0.0	0.0	0.0	6.7	20.2	
Motor & Pump P 1601 B	CNEL	96.3	2	573.6	-66.2	5.4	-19.9	-2.2		0.0	0.0	0.0	6.7	20.2	
Motor & Pump P 1602 A	CNEL	96.3	2	572.5	-66.1	5.4	-19.9	-2.2		0.0	0.0	0.0	6.7	20.2	
Motor & Pump P 1602 B	CNEL	96.5	2	571.0	-66.1	5.4	-20.0	-2.2		0.0	0.0	0.0	6.7	20.3	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	593.9	-66.5	5.6	-19.8	-2.2	-0.17	0.0	0.0	0.0	6.7	20.2	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	593.3	-66.5	5.5	-19.7	-2.2	-0.17	0.0	0.0	0.0	6.7	20.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	593.0	-66.5	5.6	-18.1	-2.2	-0.17	0.0	0.0	0.0	6.7	21.9	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	602.2	-66.6	5.5	-19.6	-2.2	-0.30	0.0	0.0	0.0	6.7	20.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	602.0	-66.6	5.5	-19.5	-2.2	-0.30	0.0	0.0	0.0	6.7	20.3	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	585.6	-66.3	5.6	-18.2	-2.2	-0.02	0.0	0.0	0.0	6.7	21.8	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	587.8	-66.4	5.6	-18.2	-2.2	-0.07	0.0	0.0	0.0	6.7	21.7	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	591.9	-66.4	5.5	-18.1	-2.2	-0.16	0.0	0.0	0.0	6.7	21.6	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	590.1	-66.4	5.6	-18.2	-2.2	-0.12	0.0	0.0	0.0	6.7	21.6	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	617.3	-66.8	5.5	-11.2	-1.1	-0.03	0.0	0.1	-38.6	0.0	22.6	
Tank Farm Pump 1	CNEL	99.0	3	338.7	-61.6	5.3	-22.5	-1.7		0.0	0.0	0.0	6.7	25.2	
Tank Farm Pump 2	CNEL	99.0	3	318.5	-61.1	5.2	-24.2	-2.0		0.0	0.0	0.0	6.7	23.7	
Tank Farm Pump 3	CNEL	99.0	3	312.9	-60.9	5.2	-24.4	-2.0		0.0	0.0	0.0	6.7	23.6	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	762.1	-68.6	5.1	-15.3	-2.0	-0.03	0.0	0.1	-16.8	0.0	14.8	
XF-1502 Splitter Area 1	CNEL	104.5		590.6	-66.4	4.2	-14.9	-2.0	0.00	-2.8	0.0	0.0	6.7	29.3	
XF-1502 Splitter Area 2	CNEL	104.5		591.1	-66.4	4.2	-16.3	-1.9		-2.7	0.0	0.0	6.7	28.0	
XF-1504 Splitter Area 1	CNEL	104.5		586.2	-66.4	4.2	-14.9	-2.0	-0.01	-2.8	0.0	0.0	6.7	29.3	
XF-1504 Splitter Area 2	CNEL	104.5		586.7	-66.4	4.2	-16.4	-1.9		-2.7	0.0	0.0	6.7	28.0	
XF 304, XF 321	CNEL	110.5	56	653.3	-67.3	4.3	-14.9	-0.9		-1.4	0.0	0.0	6.7	36.9	
XF 313, XF 314	CNEL	113.0	18	651.6	-67.3	4.6	-18.0	-1.4		-2.3	0.0	0.0	6.7	35.3	
XF 335-1, XF 335-2	CNEL	113.4	54	652.3	-67.3	4.3	-16.0	-1.2	0.00	-1.5	0.0	0.0	6.7	38.4	
XF 503	CNEL	113.0	21	641.1	-67.1	4.7	-16.6	-1.6	-0.42	-2.7	0.0	0.0	6.7	36.0	
XF - 1601	CNEL	96.6		573.3	-66.2	3.3	-11.0	-1.0		-1.2	0.0	0.0	6.7	27.2	
XF - 1602	CNEL	96.6		567.4	-66.1	3.2	-11.0	-1.0		-1.2	0.0	0.0	6.7	27.3	
XF Module 1510	CNEL	108.3		597.3	-66.5	4.3	-23.2	-2.6	-0.04	-2.8	0.0	0.0	6.7	24.3	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF Module 1519	CNEL	109.0		596.6	-66.5	4.3	-15.1	-2.0	-0.22	-2.8	0.0	0.0	6.7	33.4	
Lakewood NB	CNEL		606								1.1			68.5	
Lakewood SB	CNEL		606								1.9			66.6	
Somerset Ave EB	CNEL		917								7.4			37.8	
Somerset Ave WB	CNEL		917								7.5			37.9	
Downey Ave NB	CNEL		608								15.7			31.6	
Downey Ave SB	CNEL		608								15.7			31.6	
Construction / Renewable Fuels Truck Tr	CNEL		1368								7.1			45.2	
Crude Operatoin Truck Truck Traffic	CNEL		520								6.7			51.5	
Receiver RLCTP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.0 dB(A) Ld 7-19 dB(A) Leq,N 58.3 dB(A) Le 19-22 dB(A) CNEL 69.1 dB(A) Lmax day hr dB(A) Ld 7															
2011 Track Mobile switch moving rail cars 33 cars per day	CNEL	109.0	3558	572.3	-66.1	5.3	-13.8	-1.5	-0.02	0.0	0.0	-10.8	0.0	22.0	
Air Compressor C 1	CNEL	110.0	5	658.3	-67.4	5.1	-19.8	-1.3		0.0	8.6	0.0	6.7	42.0	
Air Compressor Pump	CNEL	100.3		517.5	-65.3	5.2	-19.1	-2.5		0.0	0.0	0.0	6.7	25.4	
Blower F 401	CNEL	113.0		634.1	-67.0	4.7	-17.0	-0.8		0.0	0.0	0.0	6.7	39.5	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	392.4	-62.9	4.7	-18.7	-0.8		0.0	0.0	0.0	6.7	27.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	666.2	-67.5	4.9	-20.3	-1.3	-0.66	-0.5	0.0	0.0	6.7	26.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	662.7	-67.4	4.9	-12.6	-1.5	-0.69	0.0	0.0	0.0	6.7	29.9	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	674.5	-67.6	4.9	-22.0	-1.6	-0.71	-1.9	0.0	0.0	6.7	24.3	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	675.6	-67.6	4.9	-16.8	-1.4	-0.73	2.5	0.0	0.0	6.7	38.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	664.4	-67.4	4.8	-15.4	-1.3	-0.10	2.8	0.2	0.0	6.7	34.0	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	685.9	-67.7	4.9	-22.1	-2.0	-0.57	-7.8	0.0	0.0	6.7	11.8	
Construciton Control Room Max Evening Night	CNEL	113.0	5461	404.0	-63.1	4.9	-11.8	-2.0		0.0	0.0	-3.0	9.2	47.2	
Construciton Control Room Max Day	CNEL	123.7	5461	404.0	-63.1	4.9	-11.8	-2.0		0.0	0.0	-3.0	0.0	48.7	
Construction Demolition Warehouse Max Day	CNEL	123.7	4384	84.1	-49.5	2.7	-12.6	-0.6		0.0	1.8	-3.0	0.0	62.5	
Construction Demoltion Loading Racks Max Day	CNEL	123.7	6296	193.3	-56.7	3.7	-7.9	-2.0		0.0	1.5	-3.0	0.0	59.2	
Construction H2 Plant Max Day	CNEL	123.7	9281	510.8	-65.2	5.1	-12.4	-2.5		0.0	0.0	-3.0	0.0	45.8	
Construction H2 Plant Max Evening Night	CNEL	113.0	9281	510.8	-65.2	5.1	-12.4	-2.5		0.0	0.0	-3.0	9.2	44.3	
Construction PreTreat Building Max Day	CNEL	123.7	6360	285.1	-60.1	4.6	-14.2	-1.5		0.0	0.0	-3.0	0.0	49.5	
Construction PreTreat Building Max Evening Night	CNEL	113.0	6360	285.1	-60.1	4.6	-14.2	-1.5		0.0	0.0	-3.0	9.2	48.0	
Construction Unit A Construction Max Day	CNEL	123.7	3185	709.7	-68.0	5.2	-15.9	-2.6	-0.68	0.0	0.0	-3.0	0.0	38.7	
Construction Unit B 2 Max Evening Night	CNEL	113.0	20817	405.6	-63.2	4.9	-18.4	-1.7		0.0	0.1	-3.0	9.2	40.9	
Construction Unit B Max Day	CNEL	123.7	20817	405.6	-63.2	4.9	-18.4	-1.7		0.0	0.1	-3.0	0.0	42.4	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	593.7	-66.5	4.9	-19.4	-1.4		-0.3	0.0	0.0	6.7	21.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	606.1	-66.6	4.9	-20.6	-1.6		-7.8	0.0	0.0	6.7	12.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	569.0	-66.1	4.6	-11.2	-1.3		-0.2	0.0	0.0	6.7	33.1	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	586.9	-66.4	4.7	-21.2	-1.7		-7.8	2.5	0.0	6.7	17.5	
Cooling Tower M 512	CNEL	95.7		599.3	-66.5	5.2	-12.3	-2.2		0.0	0.0	0.0	6.7	26.6	
Cooling Tower M 513	CNEL	95.7		600.7	-66.6	5.2	-12.2	-2.2		0.0	0.0	0.0	6.7	26.6	
Cooling Tower M 514	CNEL	95.7		597.8	-66.5	5.2	-12.3	-2.2		0.0	0.0	0.0	6.7	26.6	
Heater # 5-Heater	CNEL	91.1	13	388.1	-62.8	4.8	-22.7	-1.1		0.0	1.5	0.0	6.7	20.5	
Heater # 5-Heater	CNEL	91.1	13	392.8	-62.9	4.8	-22.6	-1.1		0.0	2.1	0.0	6.7	20.9	
Heater # 5-Heater	CNEL	91.1	13	397.6	-63.0	4.8	-23.0	-1.2		0.0	0.6	0.0	6.7	19.0	
Hydro Heater H-402	CNEL	98.1		626.2	-66.9	4.9	-15.8	-1.1		0.0	0.0	0.0	6.7	26.0	
Motor & Pump P 56A/B	CNEL	93.7		635.9	-67.1	5.3	-19.0	-2.4	-0.14	0.0	0.0	0.0	6.7	17.0	
Motor & Pump P 120/121	CNEL	96.2	2	655.4	-67.3	5.2	-14.6	-1.9	-0.54	0.0	0.0	0.0	6.7	23.7	
Motor & Pump P 211/212	CNEL	93.7		652.7	-67.3	5.3	-14.7	-2.5	-0.57	0.0	0.0	0.0	6.7	20.6	
Motor & Pump P 215/214	CNEL	94.6		653.5	-67.3	5.3	-11.5	-2.6	-0.58	0.0	0.0	0.0	6.7	24.6	
Motor & Pump P 216	CNEL	98.3		659.4	-67.4	5.3	-14.4	-2.5	-0.72	0.0	0.0	0.0	6.7	25.2	
Motor & Pump P 217/218	CNEL	93.7		653.1	-67.3	5.4	-11.4	-2.6	-0.58	0.0	0.0	0.0	6.7	23.9	
Motor & Pump P 300	CNEL	97.1	2	667.5	-67.5	5.3	-14.4	-2.0	-0.54	0.0	0.0	0.0	6.7	24.7	
Motor & Pump P 301	CNEL	102.1	2	667.2	-67.5	5.2	-14.3	-2.0	-0.54	0.0	0.0	0.0	6.7	29.7	
Motor & Pump P 302	CNEL	97.1	2	667.8	-67.5	5.3	-14.4	-2.0	-0.54	0.0	0.0	0.0	6.7	24.7	
Motor & Pump P 303	CNEL	97.1	2	668.2	-67.5	5.2	-14.3	-2.0	-0.54	0.0	0.0	0.0	6.7	24.7	
Motor & Pump P 305	CNEL	97.5	2	668.5	-67.5	5.2	-14.3	-2.0	-0.54	0.0	0.0	0.0	6.7	25.1	
Motor & Pump P 306	CNEL	112.6	4	670.2	-67.5	5.1	-21.2	-2.0		0.0	0.4	0.0	6.7	34.1	
Motor & Pump P 307	CNEL	102.1	2	666.4	-67.5	5.2	-22.3	-2.2	-0.53	0.0	0.0	0.0	6.7	21.5	

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 309	CNEL	97.5	2	668.8	-67.5	5.2	-19.8	-2.0	-0.53	0.0	0.0	0.0	6.7	19.6	
Motor & Pump P 312	CNEL	101.5	2	662.9	-67.4	5.3	-11.6	-2.0	-0.53	0.0	0.0	0.0	6.7	31.9	
Motor & Pump P 313	CNEL	101.5	2	662.7	-67.4	5.3	-11.6	-2.0	-0.53	0.0	0.0	0.0	6.7	31.9	
Motor & Pump P 315	CNEL	102.9	2	662.1	-67.4	5.3	-17.1	-1.9	-0.26	0.0	0.0	0.0	6.7	28.2	
Motor & Pump P 316	CNEL	102.9	2	661.8	-67.4	5.3	-17.7	-1.9	-0.23	0.0	0.0	0.0	6.7	27.6	
Motor & Pump P 317	CNEL	102.9	2	661.5	-67.4	5.2	-17.7	-1.9	-0.23	0.0	0.0	0.0	6.7	27.6	
Motor & Pump P 318	CNEL	100.2	1	661.8	-67.4	5.3	-19.9	-2.2		0.0	0.0	0.0	6.7	22.7	
Motor & Pump P 319	CNEL	100.2	1	662.0	-67.4	5.3	-20.1	-2.2		0.0	0.0	0.0	6.7	22.6	
Motor & Pump P 327	CNEL	111.2	3	672.5	-67.5	5.3	-23.4	-3.3		0.0	0.7	0.0	6.7	29.7	
Motor & Pump P 328	CNEL	109.9	5	669.0	-67.5	5.2	-20.8	-2.0	-0.50	0.0	0.0	0.0	6.7	31.0	
Motor & Pump P 329	CNEL	110.2	5	669.5	-67.5	5.2	-22.0	-2.2	-0.07	0.0	0.0	0.0	6.7	30.3	
Motor & Pump P 451	CNEL	93.7		624.4	-66.9	5.3	-11.9	-2.5		0.0	0.0	0.0	6.7	24.3	
Motor & Pump P 453	CNEL	93.7		620.7	-66.8	5.3	-22.7	-2.8		0.0	0.0	0.0	6.7	13.3	
Motor & Pump P 454	CNEL	93.7		625.9	-66.9	5.3	-11.9	-2.5		0.0	0.0	0.0	6.7	24.2	
Motor & Pump P 457	CNEL	93.7		620.6	-66.8	5.3	-22.9	-2.9		0.0	0.0	0.0	6.7	12.9	
Motor & Pump P 458	CNEL	93.7		623.2	-66.9	5.3	-11.9	-2.5		0.0	0.0	0.0	6.7	24.3	
Motor & Pump P 459	CNEL	93.7		626.0	-66.9	5.3	-12.0	-2.5		0.0	0.0	0.0	6.7	24.1	
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		613.3	-66.7	5.3	-20.9	-2.9		0.0	0.0	0.0	6.7	17.6	
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		613.5	-66.7	5.3	-21.2	-3.0		0.0	0.0	0.0	6.7	17.3	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		609.9	-66.7	5.3	-17.1	-2.4	-0.18	0.0	0.0	0.0	6.7	21.1	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		610.1	-66.7	5.3	-22.1	-3.0	-0.21	0.0	5.3	0.0	6.7	20.7	
Motor & Pump P 1601 A	CNEL	96.3	2	585.3	-66.3	5.2	-13.8	-2.4		0.0	0.0	0.0	6.7	25.6	
Motor & Pump P 1601 B	CNEL	96.3	2	583.8	-66.3	5.2	-13.8	-2.4		0.0	0.0	0.0	6.7	25.6	
Motor & Pump P 1602 A	CNEL	96.3	2	582.6	-66.3	5.2	-13.9	-2.4		0.0	0.0	0.0	6.7	25.6	
Motor & Pump P 1602 B	CNEL	96.5	2	581.1	-66.3	5.2	-13.9	-2.4		0.0	0.0	0.0	6.7	25.8	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	604.1	-66.6	5.3	-13.6	-2.4	-0.17	0.0	0.0	0.0	6.7	25.7	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	604.8	-66.6	5.3	-13.7	-2.4	-0.17	0.0	0.0	0.0	6.7	25.7	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	605.2	-66.6	5.3	-21.6	-3.0	-0.25	0.0	0.0	0.0	6.7	17.1	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	613.1	-66.7	5.3	-13.5	-2.5	-0.30	0.0	0.0	0.0	6.7	25.7	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	613.4	-66.7	5.3	-13.5	-2.5	-0.30	0.0	0.0	0.0	6.7	25.6	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	599.2	-66.5	5.3	-13.8	-2.4	-0.02	0.0	0.0	0.0	6.7	25.4	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	601.5	-66.6	5.3	-13.8	-2.4	-0.07	0.0	0.0	0.0	6.7	25.4	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	605.5	-66.6	5.3	-13.7	-2.5	-0.16	0.0	0.0	0.0	6.7	25.3	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	603.7	-66.6	5.3	-13.8	-2.4	-0.12	0.0	0.0	0.0	6.7	25.3	
Rail Cars Bumping 6 times in during delivery	CNEL	134.7	362	587.9	-66.4	5.2	-11.1	-0.9	-0.09	0.0	0.0	-38.6	0.0	22.8	
Tank Farm Pump 1	CNEL	99.0	3	335.0	-61.5	5.0	-19.7	-1.5		0.0	0.3	0.0	6.7	28.4	
Tank Farm Pump 2	CNEL	99.0	3	313.8	-60.9	5.0	-20.3	-1.4		0.0	0.0	0.0	6.7	28.0	
Tank Farm Pump 3	CNEL	99.0	3	307.9	-60.8	5.0	-20.5	-1.4		0.0	2.4	0.0	6.7	30.3	
UP Train Locomotive Delivery and Pickup	CNEL	112.4	1388	757.2	-68.6	4.9	-12.6	-2.0	-0.03	0.0	0.0	-16.8	0.0	17.3	
XF-1502 Splitter Area 1	CNEL	104.5		603.2	-66.6	4.0	-10.9	-2.3	0.00	-3.2	0.0	0.0	6.7	32.1	
XF-1502 Splitter Area 2	CNEL	104.5		602.7	-66.6	4.0	-10.9	-2.3		-3.2	0.0	0.0	6.7	32.2	
XF-1504 Splitter Area 1	CNEL	104.5		598.8	-66.5	4.0	-11.0	-2.2	-0.01	-3.2	0.0	0.0	6.7	32.1	
XF-1504 Splitter Area 2	CNEL	104.5		598.3	-66.5	4.0	-11.0	-2.2		-3.2	0.0	0.0	6.7	32.2	
XF 304, XF 321	CNEL	110.5	56	673.0	-67.6	3.9	-14.3	-1.0		-1.5	0.0	0.0	6.7	36.6	
XF 313, XF 314	CNEL	113.0	18	679.0	-67.6	4.3	-16.5	-1.5	0.00	-2.4	0.0	0.0	6.7	35.9	
XF 335-1, XF 335-2	CNEL	113.4	54	675.1	-67.6	4.0	-15.8	-1.3	0.00	-1.5	0.0	0.0	6.7	37.9	
XF 503	CNEL	113.0	21	647.8	-67.2	4.4	-10.5	-1.8	-0.43	-3.0	0.0	0.0	6.7	41.1	
XF - 1601	CNEL	96.6		583.1	-66.3	2.9	-7.9	-1.2		-1.6	0.0	0.0	6.7	29.2	
XF - 1602	CNEL	96.6		577.2	-66.2	2.8	-8.0	-1.1		-1.5	0.0	0.0	6.7	29.2	
XF Module 1510	CNEL	108.3		607.9	-66.7	4.1	-11.1	-2.3	-0.23	-3.2	0.0	0.0	6.7	35.7	
XF Module 1519	CNEL	109.0		608.6	-66.7	4.1	-11.1	-2.3	-0.23	-3.2	0.0	0.0	6.7	36.4	
Lakewood NB	CNEL		606								2.4			64.1	
Lakewood SB	CNEL		606								2.6			63.6	
Somerset Ave EB	CNEL		917								12.3			43.3	
Somerset Ave WB	CNEL		917								12.2			43.3	
Downey Ave NB	CNEL		608								1.7			14.8	
Downey Ave SB	CNEL		608								1.7			14.9	
Construction / Renewable Fuels Truck Tr	CNEL		1368								5.7			50.0	
Crude Operatoin Truck Truck Traffic	CNEL		520								6.5			46.6	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 2

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2011 Track Mobile switch moving rail cars 33 cars per day	3291	3503	25.2	109.0	84.3	95.5	92.6	91.1	96.5	101.7	102.9	102.7	100.6	95.1
XF 313, XF 314	3211	3688	31.5	113.0	57.9	80.5	99.8	101.7	107.6	109.0	104.8	98.6	87.1	74.3
XF 335-1, XF 335-2	3211	3670	33.5	113.4	73.7	91.5	102.0	104.4	107.3	104.8	108.4	102.8	93.6	82.1
XF 304, XF 321	3211	3658	33.5	110.5	72.5	90.1	100.7	102.9	106.0	103.0	99.7	99.7	89.9	78.4
XF 503	3229	3607	30.8	113.0	73.5	82.0	95.2	102.2	107.4	105.2	99.6	109.0	97.1	73.2
Construction Unit B Max Day	3464	3474	25.7	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construciton Control Room Max Day	3468	3559	25.9	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Unit A Construction Max Day	3173	3654	25.6	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Demolition Warehouse Max Day	3792	3504	26.9	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Demoltion Loading Racks Max Day	3781	3713	27.4	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction PreTreat Building Max Day	3584	3551	26.3	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction H2 Plant Max Day	3364	3594	25.7	123.7	81.8	95.6	105.7	112.0	114.0	116.7	118.6	117.2	112.4	
Construction Unit B 2 Max Evening Night	3464	3474	25.7	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Construciton Control Room Max Evening Night	3468	3559	25.9	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Construction PreTreat Building Max Evening Night	3584	3551	26.3	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Construction H2 Plant Max Evening Night	3364	3594	25.7	113.0	71.1	84.9	95.0	101.3	103.3	106.0	107.9	106.5	101.7	
Cooling Tower CT 511-CT 511 East Side	3308	3603	27.9	97.6	55.2	70.3	84.1	89.1	91.1	91.5	90.1	89.0	82.3	
Cooling Tower CT 511-CT 511 West Side	3290	3603	27.9	97.7	55.2	70.4	84.1	89.2	91.2	91.5	90.2	89.0	82.4	
Cooling Tower CT 510-CT 510 East Side	3284	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 510-CT 510 West Side	3271	3604	26.6	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Boiler Crude Unit-Heater Opening	3505	3408	25.1	95.6	62.0	72.8	81.2	88.7	89.3	90.1	87.7	83.1	75.8	61.7
Heater # 5-Heater	3498	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3503	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3508	3411	25.0	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Compressor House C301, C302, C 124-Comp House North	3203	3609	26.6	103.5	60.1	72.0	91.9	96.3	97.4	95.9	97.2	91.4	87.1	
Compressor House C301, C302, C 124-Comp House West	3191	3603	26.6	97.4	55.0	70.2	83.9	88.9	90.9	91.3	89.9	88.8	82.1	
Compressor House C301, C302, C 124-Comp House South 1	3201	3598	26.6	107.7	64.3	76.1	96.1	100.4	101.6	100.0	101.4	95.6	91.2	
Compressor House C301, C302, C 124-Comp House East 1	3210	3601	26.6	101.8	58.4	70.2	90.2	94.5	95.7	94.1	95.5	89.7	85.3	
Compressor House C301, C302, C 124-Comp House South 2	3212	3603	26.6	100.8	57.4	69.2	89.2	93.5	94.7	93.1	94.5	88.7	84.3	
Compressor House C301, C302, C 124-Comp House East 2	3214	3606	26.6	100.5	67.7	73.9	82.0	93.5	93.9	94.1	91.3	94.1	78.0	
Motor & Pump P 312	3217	3632	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 313	3217	3630	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 319	3218	3627	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 318	3218	3626	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 315	3217	3624	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 316	3217	3622	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 317	3217	3620	24.7	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 309	3217	3667	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 305	3217	3665	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 303	3217	3664	24.7	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 302	3217	3662	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 300	3217	3661	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 301	3217	3659	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 307	3217	3654	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 120/121	3229	3658	24.7	96.2	44.4	60.2	73.4	83.8	90.0	92.7	88.8	84.1	74.9	64.6
Air Compressor C 1	3229	3671	24.4	110.0	66.6	78.5	98.4	102.8	103.9	102.4	103.7	97.9	93.6	
Motor & Pump P 327	3217	3683	24.7	111.2	52.5	68.1	77.3	90.9	103.2	106.4	107.0	101.7	93.6	81.0
Motor & Pump P 306	3217	3675	25.1	112.6	52.9	82.5	86.6	105.4	106.6	101.6	107.3	99.9	103.9	82.3
Motor & Pump P 329	3217	3672	25.1	110.2	56.3	78.3	86.3	97.0	102.1	108.1	101.1	96.2	87.5	76.9
Motor & Pump P 328	3217	3669	25.1	109.9	58.1	73.9	87.2	97.6	103.7	106.4	102.5	97.8	88.6	78.4
Tank Farm Pump 1	3543	3594	25.1	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 2	3565	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 3	3571	3594	25.0	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Motor & Pump P - 1507 Reactor Pump	3266	3623	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1508 Reactor Pump	3266	3625	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1502 Splitter Reflux Pu	3275	3620	24.6	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1503 Splitter Bottoms P	3275	3625	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1504 Splitter Bottoms P	3275	3628	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1511 Stabilizer Reflux	3282	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1512 Stabilizer Reflux	3279	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1513 Caustic Circulatin	3275	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1514 Caustic Circulatin	3277	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 A	3294	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 B	3296	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 A	3297	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 2

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 1602 B	3298	3620	25.5	96.5	47.5	62.6	74.7	82.3	87.7	90.8	92.0	88.9	79.8	
UP Train Locomotive Delivery and Pickup	3068	3642	26.8	112.4	87.7	98.9	96.0	94.5	99.9	105.1	106.3	106.1	104.0	98.5
Rail Cars Bumping 6 times in during delivery	3272	3512	24.8	134.7	119.5	120.0	105.7	128.2	122.6	132.4	121.7	117.2	108.1	92.7
Cooling Tower M 513	3276	3598	25.4	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 512	3277	3598	25.2	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 514	3279	3598	25.3	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Hydro Heater H-402	3250	3598	24.9	98.1	57.2	68.0	79.4	94.1	91.1	89.8	87.7	88.6	82.9	73.3
Motor & Pump P 56A/B	3242	3613	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 459	3250	3592	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 454	3250	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 451	3251	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 458	3253	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 453	3254	3579	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 457	3254	3578	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 211/212	3223	3588	24.6	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 217/218	3223	3590	24.0	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 215/214	3222	3593	24.6	94.6	45.6	60.8	72.9	80.4	85.8	89.0	90.2	87.0	77.9	
Motor & Pump P 216	3216	3589	25.0	98.3	49.3	64.4	76.5	84.1	89.5	92.6	93.8	90.7	81.6	
XF Module 1519	3271	3627	32.7	109.0	77.1	84.1	89.4	95.1	98.8	105.0	104.2	99.4	91.1	76.8
XF Module 1510	3271	3622	32.7	108.3	76.4	83.4	88.7	94.4	98.1	104.3	103.5	98.7	90.4	76.1
XF-1502 Splitter Area 1	3277	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1502 Splitter Area 2	3277	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 1	3282	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 2	3282	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF - 1601	3296	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF - 1602	3302	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
Motor & Pump P 1505 FRESH FEED PUMPS	3266	3620	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1506 FRESH FEED PUMPS	3266	3621	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1509 Chloride Injection P	3275	3655	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Motor & Pump P 1510 Chloride Injection P	3275	3656	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Blower F 401	3240	3559	25.3	113.0	75.6	87.5	101.6	109.9	107.3	103.6	98.5	92.1	84.9	66.1
Air Compressor Pump	3356	3527	24.8	100.3	61.9	72.1	77.2	84.7	90.1	93.3	94.5	94.3	92.2	

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 2

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock	o'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2011 Track Mobile switch moving rail cars 33 cars per day								106	106								106	106						
Air Compressor C 1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Air Compressor Pump	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Blower F 401	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Boiler Crude Unit-Heater Opening	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Compressor House C301, C302, C 124-Comp House East 1	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Compressor House C301, C302, C 124-Comp House East 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House North	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Compressor House C301, C302, C 124-Comp House South 1	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Compressor House C301, C302, C 124-Comp House South 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Construciton Control Room Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construciton Control Room Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction Demolition Warehouse Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction Demoltion Loading Racks Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction H2 Plant Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction H2 Plant Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construction PreTreat Building Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction PreTreat Building Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construction Unit A Construction Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Construction Unit B 2 Max Evening Night	113	113	113	113	113	113	113													113	113	113	113	113
Construction Unit B Max Day								124	124	124	124	124	124	124	124	124	124	124	124					
Cooling Tower CT 510-CT 510 East Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 510-CT 510 West Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 511-CT 511 East Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower CT 511-CT 511 West Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower M 512	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 513	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 514	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Hydro Heater H-402	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 56A/B	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 120/121	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 211/212	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 215/214	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 216	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 217/218	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 300	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 301	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 302	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 303	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 305	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 306	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Motor & Pump P 307	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 309	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 312	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 313	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 315	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 316	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 317	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 318	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 2

Name	0-1 כ'clock dB(A)	1-2 כ'clock dB(A)	3-4 כ'clock dB(A)	2-3 כ'clock dB(A)	4-5 כ'clock dB(A)	5-6 כ'clock dB(A)	6-7 כ'clock dB(A)	7-8 כ'clock dB(A)	8-9 כ'clock dB(A)	9-10 כ'clock dB(A)	10-11 כ'clock dB(A)	11-12 כ'clock dB(A)	12-13 כ'clock dB(A)	13-14 כ'clock dB(A)	14-15 כ'clock dB(A)	15-16 כ'clock dB(A)	16-17 כ'clock dB(A)	17-18 כ'clock dB(A)	18-19 כ'clock dB(A)	19-20 כ'clock dB(A)	20-21 כ'clock dB(A)	21-22 כ'clock dB(A)	22-23 כ'clock dB(A)	23-24 כ'clock dB(A)
Motor & Pump P 319	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 327	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Motor & Pump P 328	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 329	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 451	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 453	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 454	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 457	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 458	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 459	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 1505 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1506 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1509 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1510 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1601 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1601 B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1502 Splitter Reflux Pu	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1503 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1504 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1507 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1508 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1511 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1512 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1513 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1514 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Rail Cars Bumping 6 times in during delivery											110													
Tank Farm Pump 1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 2	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
UP Train Locomotive Delivery and Pickup											109													
XF-1502 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1502 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF 304, XF 321	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
XF 313, XF 314	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 335-1, XF 335-2	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 503	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF - 1601	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF - 1602	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF Module 1510	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
XF Module 1519	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

AltAir Paramount - WorldEnergy
Assessed receiver levels
Case 2

Receiver	Fl	X m	Y m	Z m	GH m	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
W-1	G	3058.6	3658.8	25.3	23.8	73.1	68.3	74.7	
W-2	G	3059.7	3750.2	24.7	23.2	69.9	66.1	70.6	
W-3	G	3060.8	3849.7	25.0	23.5	66.6	60.4	67.4	
N-1	G	3152.3	3848.3	25.1	23.6	64.3	59.5	65.0	
N-2	G	3251.7	3846.8	25.6	24.1	58.0	53.1	58.8	
N-3	G	3249.9	3754.2	25.6	24.1	68.5	58.0	69.4	
N-4	G	3341.4	3753.4	25.9	24.4	58.3	52.5	59.1	
N-5	G	3432.8	3752.5	25.9	24.4	57.9	49.1	58.8	
N-6	G	3547.8	3751.5	26.2	24.7	63.1	45.0	64.1	
N-7	G	3639.3	3751.1	26.8	25.3	71.6	56.4	72.6	
N-8	G	3730.7	3754.4	26.8	24.9	73.9	48.2	74.9	
E-1	G	3827.7	3750.4	27.1	25.6	64.8	45.9	65.7	
E-2	G	3829.7	3659.0	27.1	25.6	65.9	51.8	66.8	
E-3	G	3831.0	3598.5	27.1	25.6	68.6	48.8	69.6	
E-4	G	3832.5	3542.1	27.0	25.5	67.5	47.3	68.5	
E-5	G	3832.4	3466.9	26.2	24.7	69.2	54.0	70.1	
E-6	G	3791.9	3467.3	26.0	24.5	68.7	54.4	69.6	
S-1	G	3792.1	3361.0	25.0	23.5	65.3	51.0	66.2	
S-2	G	3709.7	3360.5	25.0	23.5	62.2	47.4	63.1	
S-3	G	3662.7	3361.1	25.0	23.5	58.7	44.6	59.6	
S-4	G	3592.7	3361.1	25.2	23.7	61.0	52.8	61.9	
S-5	G	3529.6	3361.9	25.2	23.7	66.0	57.2	67.0	
S-6	G	3452.3	3410.7	25.2	23.7	78.5	69.4	79.4	
S-7	G	3374.9	3459.4	25.1	23.6	80.4	70.7	81.6	
S-8	G	3297.5	3508.2	25.0	23.5	76.8	68.2	78.4	
S-9	G	3220.2	3556.9	25.0	23.5	77.0	75.7	78.4	
S-10	G	3142.8	3605.7	25.0	23.5	74.7	68.7	77.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Receiver W-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 73.1 dB(A)		Ld 7-19 dB(A)	Leq,N 68.3 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	46.3			
Air Compressor C 1	53.9	53.9	53.9	
Air Compressor Pump	33.7	33.7	33.7	
Blower F 401	54.6	54.6	54.6	
Boiler Crude Unit-Heater Opening	23.6	23.6	23.6	
Compressor House C301, C302, C 124-Comp House East 1	24.8	24.8	24.8	
Compressor House C301, C302, C 124-Comp House East 2	29.2	29.2	29.2	
Compressor House C301, C302, C 124-Comp House North	50.4	50.4	50.4	
Compressor House C301, C302, C 124-Comp House South 1	37.7	37.7	37.7	
Compressor House C301, C302, C 124-Comp House South 2	25.8	25.8	25.8	
Compressor House C301, C302, C 124-Comp House West	42.4	42.4	42.4	
Construciton Control Room Max Evening Night	38.8	45.8		
Construciton Control Room Max Day	55.5		56.5	
Construction / Renewable Fuels Truck Tr	39.9	18.1	40.6	
Construction Demolition Warehouse Max Day	43.2		44.2	
Construction Demoltion Loading Racks Max Day	41.4		42.4	
Construction H2 Plant Max Day	56.9		57.8	
Construction H2 Plant Max Evening Night	40.2	47.1		
Construction PreTreat Building Max Day	53.0		54.0	
Construction PreTreat Building Max Evening Night	36.3	43.3		
Construction Unit A Construction Max Day	70.7		71.7	
Construction Unit B 2 Max Evening Night	38.4	45.4		
Construction Unit B Max Day	55.2		56.1	
Cooling Tower CT 510-CT 510 East Side	25.6	25.6	25.6	
Cooling Tower CT 510-CT 510 West Side	40.1	40.1	40.1	
Cooling Tower CT 511-CT 511 East Side	16.6	16.6	16.6	
Cooling Tower CT 511-CT 511 West Side	37.6	37.6	37.6	
Cooling Tower M 512	35.6	35.6	35.6	
Cooling Tower M 513	35.5	35.5	35.5	
Cooling Tower M 514	35.6	35.6	35.6	
Crude Operatoin Truck Truck Traffic	16.7	16.7	16.7	
Heater # 5-Heater	14.3	14.3	14.3	
Heater # 5-Heater	13.7	13.7	13.7	
Heater # 5-Heater	14.0	14.0	14.0	
Hydro Heater H-402	36.9	36.9	36.9	
Motor & Pump P - 1502 Splitter Reflux Pu	31.2	31.2	31.2	
Motor & Pump P - 1503 Splitter Bottoms P	31.2	31.2	31.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	34.1	34.1	34.1	
Motor & Pump P - 1507 Reactor Pump	31.5	31.5	31.5	
Motor & Pump P - 1508 Reactor Pump	31.5	31.5	31.5	
Motor & Pump P - 1511 Stabilizer Reflux	32.5	32.5	32.5	
Motor & Pump P - 1512 Stabilizer Reflux	32.5	32.5	32.5	
Motor & Pump P - 1513 Caustic Circulatin	32.4	32.4	32.4	
Motor & Pump P - 1514 Caustic Circulatin	32.4	32.4	32.4	
Motor & Pump P 120/121	39.2	39.2	39.2	
Motor & Pump P 1505 FRESH FEED PUMPS	33.0	33.0	33.0	
Motor & Pump P 1506 FRESH FEED PUMPS	32.2	32.2	32.2	
Motor & Pump P 1509 Chloride Injection P	38.1	38.1	38.1	
Motor & Pump P 1510 Chloride Injection P	40.3	40.3	40.3	
Motor & Pump P 1601 A	31.6	31.6	31.6	
Motor & Pump P 1601 B	31.6	31.6	31.6	
Motor & Pump P 1602 A	31.6	31.6	31.6	
Motor & Pump P 1602 B	31.8	31.8	31.8	
Motor & Pump P 211/212	28.0	28.0	28.0	
Motor & Pump P 215/214	23.7	23.7	23.7	
Motor & Pump P 216	34.3	34.3	34.3	
Motor & Pump P 217/218	25.1	25.1	25.1	
Motor & Pump P 300	37.4	37.4	37.4	
Motor & Pump P 301	44.3	44.3	44.3	
Motor & Pump P 302	40.4	40.4	40.4	
Motor & Pump P 303	42.8	42.8	42.8	
Motor & Pump P 305	43.2	43.2	43.2	
Motor & Pump P 306	54.7	54.7	54.7	
Motor & Pump P 307	47.2	47.2	47.2	
Motor & Pump P 309	47.8	47.8	47.8	
Motor & Pump P 312	38.0	38.0	38.0	
Motor & Pump P 313	39.1	39.1	39.1	
Motor & Pump P 315	41.1	41.1	41.1	
Motor & Pump P 316	46.4	46.4	46.4	
Motor & Pump P 317	48.1	48.1	48.1	
Motor & Pump P 318	37.8	37.8	37.8	
Motor & Pump P 319	35.3	35.3	35.3	
Motor & Pump P 327	61.7	61.7	61.7	
Motor & Pump P 328	61.0	61.0	61.0	
Motor & Pump P 329	61.6	61.6	61.6	
Motor & Pump P 451	26.9	26.9	26.9	
Motor & Pump P 453	26.1	26.1	26.1	
Motor & Pump P 454	26.4	26.4	26.4	
Motor & Pump P 457	22.2	22.2	22.2	
Motor & Pump P 458	27.0	27.0	27.0	
Motor & Pump P 459	26.4	26.4	26.4	
Motor & Pump P 56A/B	34.8	34.8	34.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Rail Cars Bumping 6 times in during delivery	45.3		57.0	
Tank Farm Pump 1	30.5	30.5	30.5	
Tank Farm Pump 2	30.5	30.5	30.5	
Tank Farm Pump 3	31.4	31.4	31.4	
UP Train Locomotive Delivery and Pickup	55.7		67.5	
XF-1502 Splitter Area 1	37.1	37.1	37.1	
XF-1502 Splitter Area 2	35.2	35.2	35.2	
XF-1504 Splitter Area 1	37.1	37.1	37.1	
XF-1504 Splitter Area 2	35.2	35.2	35.2	
XF - 1601	31.8	31.8	31.8	
XF - 1602	31.6	31.6	31.6	
XF 304, XF 321	53.0	53.0	53.0	
XF 313, XF 314	53.4	53.4	53.4	
XF 335-1, XF 335-2	57.2	57.2	57.2	
XF 503	47.2	47.2	47.2	
XF Module 1510	39.7	39.7	39.7	
XF Module 1519	39.8	39.8	39.8	
Receiver W-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.9 dB(A) Ld 7-19 dB(A) Leq,N 66.1 dB(A) Le 19-2				
2011 Track Mobile switch moving rail cars 33 cars per day	33.4			
Air Compressor C 1	43.8	43.8	43.8	
Air Compressor Pump	20.1	20.1	20.1	
Blower F 401	46.9	46.9	46.9	
Boiler Crude Unit-Heater Opening	14.8	14.8	14.8	
Compressor House C301, C302, C 124-Comp House East 1	23.2	23.2	23.2	
Compressor House C301, C302, C 124-Comp House East 2	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House North	48.7	48.7	48.7	
Compressor House C301, C302, C 124-Comp House South 1	28.2	28.2	28.2	
Compressor House C301, C302, C 124-Comp House South 2	22.4	22.4	22.4	
Compressor House C301, C302, C 124-Comp House West	38.7	38.7	38.7	
Construciton Control Room Max Evening Night	39.4	46.4		
Construciton Control Room Max Day	56.2		57.1	
Construction / Renewable Fuels Truck Tr	36.0	14.1	36.7	
Construction Demolition Warehouse Max Day	45.5		46.5	
Construction Demoltion Loading Racks Max Day	49.7		50.7	
Construction H2 Plant Max Day	57.2		58.2	
Construction H2 Plant Max Evening Night	40.5	47.5		
Construction PreTreat Building Max Day	54.2		55.2	
Construction PreTreat Building Max Evening Night	37.5	44.5		

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction Unit A Construction Max Day	66.4		67.4	
Construction Unit B 2 Max Evening Night	35.3	42.3		
Construction Unit B Max Day	52.0		53.0	
Cooling Tower CT 510-CT 510 East Side	20.1	20.1	20.1	
Cooling Tower CT 510-CT 510 West Side	38.5	38.5	38.5	
Cooling Tower CT 511-CT 511 East Side	16.7	16.7	16.7	
Cooling Tower CT 511-CT 511 West Side	35.4	35.4	35.4	
Cooling Tower M 512	27.5	27.5	27.5	
Cooling Tower M 513	36.0	36.0	36.0	
Cooling Tower M 514	25.7	25.7	25.7	
Crude Operatoin Truck Truck Traffic	19.2	19.2	19.2	
Heater # 5-Heater	11.2	11.2	11.2	
Heater # 5-Heater	10.1	10.1	10.1	
Heater # 5-Heater	9.1	9.1	9.1	
Hydro Heater H-402	27.8	27.8	27.8	
Motor & Pump P - 1502 Splitter Reflux Pu	29.1	29.1	29.1	
Motor & Pump P - 1503 Splitter Bottoms P	28.4	28.4	28.4	
Motor & Pump P - 1504 Splitter Bottoms P	29.5	29.5	29.5	
Motor & Pump P - 1507 Reactor Pump	27.8	27.8	27.8	
Motor & Pump P - 1508 Reactor Pump	29.3	29.3	29.3	
Motor & Pump P - 1511 Stabilizer Reflux	33.3	33.3	33.3	
Motor & Pump P - 1512 Stabilizer Reflux	34.0	34.0	34.0	
Motor & Pump P - 1513 Caustic Circulatin	36.2	36.2	36.2	
Motor & Pump P - 1514 Caustic Circulatin	35.3	35.3	35.3	
Motor & Pump P 120/121	38.3	38.3	38.3	
Motor & Pump P 1505 FRESH FEED PUMPS	30.5	30.5	30.5	
Motor & Pump P 1506 FRESH FEED PUMPS	28.5	28.5	28.5	
Motor & Pump P 1509 Chloride Injection P	27.8	27.8	27.8	
Motor & Pump P 1510 Chloride Injection P	31.2	31.2	31.2	
Motor & Pump P 1601 A	34.6	34.6	34.6	
Motor & Pump P 1601 B	35.0	35.0	35.0	
Motor & Pump P 1602 A	35.0	35.0	35.0	
Motor & Pump P 1602 B	35.4	35.4	35.4	
Motor & Pump P 211/212	19.0	19.0	19.0	
Motor & Pump P 215/214	20.0	20.0	20.0	
Motor & Pump P 216	23.3	23.3	23.3	
Motor & Pump P 217/218	18.3	18.3	18.3	
Motor & Pump P 300	41.9	41.9	41.9	
Motor & Pump P 301	46.6	46.6	46.6	
Motor & Pump P 302	40.9	40.9	40.9	
Motor & Pump P 303	40.2	40.2	40.2	
Motor & Pump P 305	39.5	39.5	39.5	
Motor & Pump P 306	57.0	57.0	57.0	
Motor & Pump P 307	43.3	43.3	43.3	
Motor & Pump P 309	44.9	44.9	44.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 312	45.8	45.8	45.8	
Motor & Pump P 313	44.8	44.8	44.8	
Motor & Pump P 315	38.3	38.3	38.3	
Motor & Pump P 316	41.6	41.6	41.6	
Motor & Pump P 317	38.9	38.9	38.9	
Motor & Pump P 318	37.0	37.0	37.0	
Motor & Pump P 319	40.7	40.7	40.7	
Motor & Pump P 327	58.5	58.5	58.5	
Motor & Pump P 328	58.6	58.6	58.6	
Motor & Pump P 329	59.4	59.4	59.4	
Motor & Pump P 451	30.5	30.5	30.5	
Motor & Pump P 453	30.2	30.2	30.2	
Motor & Pump P 454	30.4	30.4	30.4	
Motor & Pump P 457	30.1	30.1	30.1	
Motor & Pump P 458	30.2	30.2	30.2	
Motor & Pump P 459	27.0	27.0	27.0	
Motor & Pump P 56A/B	36.2	36.2	36.2	
Rail Cars Bumping 6 times in during delivery	33.2		44.9	
Tank Farm Pump 1	16.8	16.8	16.8	
Tank Farm Pump 2	19.0	19.0	19.0	
Tank Farm Pump 3	19.3	19.3	19.3	
UP Train Locomotive Delivery and Pickup	40.0		51.7	
XF-1502 Splitter Area 1	40.9	40.9	40.9	
XF-1502 Splitter Area 2	37.7	37.7	37.7	
XF-1504 Splitter Area 1	39.7	39.7	39.7	
XF-1504 Splitter Area 2	39.8	39.8	39.8	
XF - 1601	36.3	36.3	36.3	
XF - 1602	34.7	34.7	34.7	
XF 304, XF 321	49.7	49.7	49.7	
XF 313, XF 314	52.6	52.6	52.6	
XF 335-1, XF 335-2	53.9	53.9	53.9	
XF 503	47.2	47.2	47.2	
XF Module 1510	43.1	43.1	43.1	
XF Module 1519	42.7	42.7	42.7	
Receiver W-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.6 dB(A)	Ld 7-19 dB(A)	Leq,N 60.4 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	33.2			
Air Compressor C 1	40.6	40.6	40.6	
Air Compressor Pump	20.3	20.3	20.3	
Blower F 401	43.3	43.3	43.3	
Boiler Crude Unit-Heater Opening	20.3	20.3	20.3	
Compressor House C301, C302, C 124-Comp House East 1	24.0	24.0	24.0	
Compressor House C301, C302, C 124-Comp House East 2	26.9	26.9	26.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House North	48.5	48.5	48.5	
Compressor House C301, C302, C 124-Comp House South 1	29.9	29.9	29.9	
Compressor House C301, C302, C 124-Comp House South 2	20.4	20.4	20.4	
Compressor House C301, C302, C 124-Comp House West	43.8	43.8	43.8	
Construciton Control Room Max Evening Night	35.8	42.8		
Construciton Control Room Max Day	52.5		53.5	
Construction / Renewable Fuels Truck Tr	34.2	12.0	34.8	
Construction Demolition Warehouse Max Day	42.3		43.3	
Construction Demoltion Loading Racks Max Day	48.5		49.5	
Construction H2 Plant Max Day	55.2		56.2	
Construction H2 Plant Max Evening Night	38.5	45.5		
Construction PreTreat Building Max Day	48.0		48.9	
Construction PreTreat Building Max Evening Night	31.2	38.2		
Construction Unit A Construction Max Day	64.3		65.3	
Construction Unit B 2 Max Evening Night	35.2	42.2		
Construction Unit B Max Day	51.9		52.9	
Cooling Tower CT 510-CT 510 East Side	13.6	13.6	13.6	
Cooling Tower CT 510-CT 510 West Side	33.2	33.2	33.2	
Cooling Tower CT 511-CT 511 East Side	13.1	13.1	13.1	
Cooling Tower CT 511-CT 511 West Side	36.9	36.9	36.9	
Cooling Tower M 512	18.1	18.1	18.1	
Cooling Tower M 513	16.6	16.6	16.6	
Cooling Tower M 514	17.8	17.8	17.8	
Crude Operatoin Truck Truck Traffic	19.6	19.6	19.6	
Heater # 5-Heater	14.7	14.7	14.7	
Heater # 5-Heater	11.6	11.6	11.6	
Heater # 5-Heater	12.7	12.7	12.7	
Hydro Heater H-402	32.9	32.9	32.9	
Motor & Pump P - 1502 Splitter Reflux Pu	23.0	23.0	23.0	
Motor & Pump P - 1503 Splitter Bottoms P	25.5	25.5	25.5	
Motor & Pump P - 1504 Splitter Bottoms P	24.9	24.9	24.9	
Motor & Pump P - 1507 Reactor Pump	22.0	22.0	22.0	
Motor & Pump P - 1508 Reactor Pump	20.8	20.8	20.8	
Motor & Pump P - 1511 Stabilizer Reflux	26.0	26.0	26.0	
Motor & Pump P - 1512 Stabilizer Reflux	23.9	23.9	23.9	
Motor & Pump P - 1513 Caustic Circulatin	30.0	30.0	30.0	
Motor & Pump P - 1514 Caustic Circulatin	29.2	29.2	29.2	
Motor & Pump P 120/121	31.2	31.2	31.2	
Motor & Pump P 1505 FRESH FEED PUMPS	27.0	27.0	27.0	
Motor & Pump P 1506 FRESH FEED PUMPS	22.4	22.4	22.4	
Motor & Pump P 1509 Chloride Injection P	32.1	32.1	32.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1510 Chloride Injection P	32.1	32.1	32.1	
Motor & Pump P 1601 A	27.9	27.9	27.9	
Motor & Pump P 1601 B	29.5	29.5	29.5	
Motor & Pump P 1602 A	26.8	26.8	26.8	
Motor & Pump P 1602 B	19.8	19.8	19.8	
Motor & Pump P 211/212	19.8	19.8	19.8	
Motor & Pump P 215/214	26.0	26.0	26.0	
Motor & Pump P 216	24.2	24.2	24.2	
Motor & Pump P 217/218	20.9	20.9	20.9	
Motor & Pump P 300	30.1	30.1	30.1	
Motor & Pump P 301	33.7	33.7	33.7	
Motor & Pump P 302	31.3	31.3	31.3	
Motor & Pump P 303	35.7	35.7	35.7	
Motor & Pump P 305	38.0	38.0	38.0	
Motor & Pump P 306	51.2	51.2	51.2	
Motor & Pump P 307	38.9	38.9	38.9	
Motor & Pump P 309	39.6	39.6	39.6	
Motor & Pump P 312	43.6	43.6	43.6	
Motor & Pump P 313	43.1	43.1	43.1	
Motor & Pump P 315	44.3	44.3	44.3	
Motor & Pump P 316	42.7	42.7	42.7	
Motor & Pump P 317	42.5	42.5	42.5	
Motor & Pump P 318	42.2	42.2	42.2	
Motor & Pump P 319	41.8	41.8	41.8	
Motor & Pump P 327	46.0	46.0	46.0	
Motor & Pump P 328	50.8	50.8	50.8	
Motor & Pump P 329	48.6	48.6	48.6	
Motor & Pump P 451	22.6	22.6	22.6	
Motor & Pump P 453	26.7	26.7	26.7	
Motor & Pump P 454	23.7	23.7	23.7	
Motor & Pump P 457	30.4	30.4	30.4	
Motor & Pump P 458	22.8	22.8	22.8	
Motor & Pump P 459	22.8	22.8	22.8	
Motor & Pump P 56A/B	28.6	28.6	28.6	
Rail Cars Bumping 6 times in during delivery	34.9		46.6	
Tank Farm Pump 1	20.4	20.4	20.4	
Tank Farm Pump 2	18.1	18.1	18.1	
Tank Farm Pump 3	20.1	20.1	20.1	
UP Train Locomotive Delivery and Pickup	34.3		46.0	
XF-1502 Splitter Area 1	36.4	36.4	36.4	
XF-1502 Splitter Area 2	39.3	39.3	39.3	
XF-1504 Splitter Area 1	36.2	36.2	36.2	
XF-1504 Splitter Area 2	36.2	36.2	36.2	
XF - 1601	32.4	32.4	32.4	
XF - 1602	32.1	32.1	32.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 304, XF 321	46.0	46.0	46.0	
XF 313, XF 314	48.9	48.9	48.9	
XF 335-1, XF 335-2	50.2	50.2	50.2	
XF 503	46.9	46.9	46.9	
XF Module 1510	41.0	41.0	41.0	
XF Module 1519	43.2	43.2	43.2	
Receiver N-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 64.3 dB(A)		Ld 7-19 dB(A)	Leq,N 59.5 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	33.4			
Air Compressor C 1	46.8	46.8	46.8	
Air Compressor Pump	19.9	19.9	19.9	
Blower F 401	48.8	48.8	48.8	
Boiler Crude Unit-Heater Opening	22.5	22.5	22.5	
Compressor House C301, C302, C 124-Comp House East 1	21.8	21.8	21.8	
Compressor House C301, C302, C 124-Comp House East 2	30.0	30.0	30.0	
Compressor House C301, C302, C 124-Comp House North	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House South 1	27.2	27.2	27.2	
Compressor House C301, C302, C 124-Comp House South 2	18.2	18.2	18.2	
Compressor House C301, C302, C 124-Comp House West	39.4	39.4	39.4	
Construciton Control Room Max Evening Night	32.0	39.0		
Construciton Control Room Max Day	48.8		49.7	
Construction / Renewable Fuels Truck Tr	38.1	14.3	38.8	
Construction Demolition Warehouse Max Day	42.5		43.5	
Construction Demoltion Loading Racks Max Day	49.3		50.3	
Construction H2 Plant Max Day	57.6		58.6	
Construction H2 Plant Max Evening Night	40.9	47.9		
Construction PreTreat Building Max Day	46.6		47.6	
Construction PreTreat Building Max Evening Night	29.9	36.9		
Construction Unit A Construction Max Day	59.2		60.2	
Construction Unit B 2 Max Evening Night	36.3	43.3		
Construction Unit B Max Day	53.0		54.0	
Cooling Tower CT 510-CT 510 East Side	24.1	24.1	24.1	
Cooling Tower CT 510-CT 510 West Side	35.2	35.2	35.2	
Cooling Tower CT 511-CT 511 East Side	23.9	23.9	23.9	
Cooling Tower CT 511-CT 511 West Side	44.2	44.2	44.2	
Cooling Tower M 512	18.5	18.5	18.5	
Cooling Tower M 513	18.7	18.7	18.7	
Cooling Tower M 514	18.7	18.7	18.7	
Crude Operatoin Truck Truck Traffic	23.5	23.5	23.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Heater # 5-Heater	17.0	17.0	17.0	
Heater # 5-Heater	13.0	13.0	13.0	
Heater # 5-Heater	14.6	14.6	14.6	
Hydro Heater H-402	29.0	29.0	29.0	
Motor & Pump P - 1502 Splitter Reflux Pu	35.6	35.6	35.6	
Motor & Pump P - 1503 Splitter Bottoms P	37.8	37.8	37.8	
Motor & Pump P - 1504 Splitter Bottoms P	37.4	37.4	37.4	
Motor & Pump P - 1507 Reactor Pump	31.3	31.3	31.3	
Motor & Pump P - 1508 Reactor Pump	32.4	32.4	32.4	
Motor & Pump P - 1511 Stabilizer Reflux	37.5	37.5	37.5	
Motor & Pump P - 1512 Stabilizer Reflux	37.4	37.4	37.4	
Motor & Pump P - 1513 Caustic Circulatin	37.8	37.8	37.8	
Motor & Pump P - 1514 Caustic Circulatin	36.5	36.5	36.5	
Motor & Pump P 120/121	33.9	33.9	33.9	
Motor & Pump P 1505 FRESH FEED PUMPS	27.5	27.5	27.5	
Motor & Pump P 1506 FRESH FEED PUMPS	28.0	28.0	28.0	
Motor & Pump P 1509 Chloride Injection P	37.8	37.8	37.8	
Motor & Pump P 1510 Chloride Injection P	37.9	37.9	37.9	
Motor & Pump P 1601 A	37.1	37.1	37.1	
Motor & Pump P 1601 B	35.9	35.9	35.9	
Motor & Pump P 1602 A	35.5	35.5	35.5	
Motor & Pump P 1602 B	36.8	36.8	36.8	
Motor & Pump P 211/212	19.4	19.4	19.4	
Motor & Pump P 215/214	21.8	21.8	21.8	
Motor & Pump P 216	18.0	18.0	18.0	
Motor & Pump P 217/218	19.7	19.7	19.7	
Motor & Pump P 300	32.9	32.9	32.9	
Motor & Pump P 301	37.6	37.6	37.6	
Motor & Pump P 302	33.1	33.1	33.1	
Motor & Pump P 303	33.3	33.3	33.3	
Motor & Pump P 305	33.8	33.8	33.8	
Motor & Pump P 306	46.4	46.4	46.4	
Motor & Pump P 307	36.9	36.9	36.9	
Motor & Pump P 309	33.7	33.7	33.7	
Motor & Pump P 312	35.6	35.6	35.6	
Motor & Pump P 313	34.4	34.4	34.4	
Motor & Pump P 315	33.4	33.4	33.4	
Motor & Pump P 316	32.7	32.7	32.7	
Motor & Pump P 317	32.2	32.2	32.2	
Motor & Pump P 318	29.3	29.3	29.3	
Motor & Pump P 319	30.9	30.9	30.9	
Motor & Pump P 327	43.4	43.4	43.4	
Motor & Pump P 328	46.3	46.3	46.3	
Motor & Pump P 329	45.6	45.6	45.6	
Motor & Pump P 451	23.0	23.0	23.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 453	19.6	19.6	19.6	
Motor & Pump P 454	22.4	22.4	22.4	
Motor & Pump P 457	19.8	19.8	19.8	
Motor & Pump P 458	20.4	20.4	20.4	
Motor & Pump P 459	22.4	22.4	22.4	
Motor & Pump P 56A/B	21.2	21.2	21.2	
Rail Cars Bumping 6 times in during delivery	33.6		45.4	
Tank Farm Pump 1	19.2	19.2	19.2	
Tank Farm Pump 2	19.7	19.7	19.7	
Tank Farm Pump 3	20.4	20.4	20.4	
UP Train Locomotive Delivery and Pickup	34.0		45.8	
XF-1502 Splitter Area 1	42.0	42.0	42.0	
XF-1502 Splitter Area 2	42.9	42.9	42.9	
XF-1504 Splitter Area 1	42.5	42.5	42.5	
XF-1504 Splitter Area 2	42.5	42.5	42.5	
XF - 1601	36.7	36.7	36.7	
XF - 1602	36.6	36.6	36.6	
XF 304, XF 321	45.3	45.3	45.3	
XF 313, XF 314	45.3	45.3	45.3	
XF 335-1, XF 335-2	50.2	50.2	50.2	
XF 503	44.5	44.5	44.5	
XF Module 1510	45.5	45.5	45.5	
XF Module 1519	46.5	46.5	46.5	
Receiver N-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 58.0 dB(A)		Ld 7-19 dB(A)	Leq,N 53.1 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	26.0			
Air Compressor C 1	40.5	40.5	40.5	
Air Compressor Pump	18.3	18.3	18.3	
Blower F 401	40.3	40.3	40.3	
Boiler Crude Unit-Heater Opening	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House East 1	31.6	31.6	31.6	
Compressor House C301, C302, C 124-Comp House East 2	29.6	29.6	29.6	
Compressor House C301, C302, C 124-Comp House North	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House South 1	24.5	24.5	24.5	
Compressor House C301, C302, C 124-Comp House South 2	18.2	18.2	18.2	
Compressor House C301, C302, C 124-Comp House West	23.1	23.1	23.1	
Construciton Control Room Max Evening Night	32.6	39.6		
Construciton Control Room Max Day	49.3		50.3	
Construction / Renewable Fuels Truck Tr	33.5	6.2	34.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction Demolition Warehouse Max Day	32.5		33.5	
Construction Demoltion Loading Racks Max Day	40.2		41.2	
Construction H2 Plant Max Day	47.1		48.1	
Construction H2 Plant Max Evening Night	30.4	37.4		
Construction PreTreat Building Max Day	39.2		40.2	
Construction PreTreat Building Max Evening Night	22.5	29.5		
Construction Unit A Construction Max Day	53.4		54.4	
Construction Unit B 2 Max Evening Night	31.1	38.1		
Construction Unit B Max Day	47.8		48.8	
Cooling Tower CT 510-CT 510 East Side	16.1	16.1	16.1	
Cooling Tower CT 510-CT 510 West Side	34.0	34.0	34.0	
Cooling Tower CT 511-CT 511 East Side	17.1	17.1	17.1	
Cooling Tower CT 511-CT 511 West Side	38.7	38.7	38.7	
Cooling Tower M 512	17.0	17.0	17.0	
Cooling Tower M 513	17.2	17.2	17.2	
Cooling Tower M 514	16.8	16.8	16.8	
Crude Operatoin Truck Truck Traffic	12.6	12.6	12.6	
Heater # 5-Heater	12.3	12.3	12.3	
Heater # 5-Heater	10.3	10.3	10.3	
Heater # 5-Heater	8.9	8.9	8.9	
Hydro Heater H-402	27.8	27.8	27.8	
Motor & Pump P - 1502 Splitter Reflux Pu	29.5	29.5	29.5	
Motor & Pump P - 1503 Splitter Bottoms P	29.7	29.7	29.7	
Motor & Pump P - 1504 Splitter Bottoms P	29.8	29.8	29.8	
Motor & Pump P - 1507 Reactor Pump	27.5	27.5	27.5	
Motor & Pump P - 1508 Reactor Pump	27.2	27.2	27.2	
Motor & Pump P - 1511 Stabilizer Reflux	18.7	18.7	18.7	
Motor & Pump P - 1512 Stabilizer Reflux	28.4	28.4	28.4	
Motor & Pump P - 1513 Caustic Circulatin	29.7	29.7	29.7	
Motor & Pump P - 1514 Caustic Circulatin	29.0	29.0	29.0	
Motor & Pump P 120/121	27.4	27.4	27.4	
Motor & Pump P 1505 FRESH FEED PUMPS	29.4	29.4	29.4	
Motor & Pump P 1506 FRESH FEED PUMPS	29.4	29.4	29.4	
Motor & Pump P 1509 Chloride Injection P	27.1	27.1	27.1	
Motor & Pump P 1510 Chloride Injection P	27.5	27.5	27.5	
Motor & Pump P 1601 A	34.4	34.4	34.4	
Motor & Pump P 1601 B	30.3	30.3	30.3	
Motor & Pump P 1602 A	31.7	31.7	31.7	
Motor & Pump P 1602 B	35.5	35.5	35.5	
Motor & Pump P 211/212	16.8	16.8	16.8	
Motor & Pump P 215/214	18.1	18.1	18.1	
Motor & Pump P 216	23.2	23.2	23.2	
Motor & Pump P 217/218	16.3	16.3	16.3	
Motor & Pump P 300	26.2	26.2	26.2	
Motor & Pump P 301	31.0	31.0	31.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 302	26.6	26.6	26.6	
Motor & Pump P 303	27.2	27.2	27.2	
Motor & Pump P 305	27.7	27.7	27.7	
Motor & Pump P 306	42.3	42.3	42.3	
Motor & Pump P 307	30.1	30.1	30.1	
Motor & Pump P 309	27.6	27.6	27.6	
Motor & Pump P 312	27.5	27.5	27.5	
Motor & Pump P 313	27.5	27.5	27.5	
Motor & Pump P 315	28.7	28.7	28.7	
Motor & Pump P 316	32.1	32.1	32.1	
Motor & Pump P 317	31.7	31.7	31.7	
Motor & Pump P 318	26.1	26.1	26.1	
Motor & Pump P 319	26.1	26.1	26.1	
Motor & Pump P 327	39.7	39.7	39.7	
Motor & Pump P 328	39.7	39.7	39.7	
Motor & Pump P 329	39.2	39.2	39.2	
Motor & Pump P 451	17.8	17.8	17.8	
Motor & Pump P 453	16.2	16.2	16.2	
Motor & Pump P 454	23.4	23.4	23.4	
Motor & Pump P 457	16.2	16.2	16.2	
Motor & Pump P 458	17.2	17.2	17.2	
Motor & Pump P 459	23.3	23.3	23.3	
Motor & Pump P 56A/B	18.7	18.7	18.7	
Rail Cars Bumping 6 times in during delivery	27.6		39.4	
Tank Farm Pump 1	13.4	13.4	13.4	
Tank Farm Pump 2	14.5	14.5	14.5	
Tank Farm Pump 3	14.6	14.6	14.6	
UP Train Locomotive Delivery and Pickup	29.5		41.3	
XF-1502 Splitter Area 1	36.6	36.6	36.6	
XF-1502 Splitter Area 2	36.4	36.4	36.4	
XF-1504 Splitter Area 1	22.2	22.2	22.2	
XF-1504 Splitter Area 2	27.3	27.3	27.3	
XF - 1601	20.8	20.8	20.8	
XF - 1602	32.5	32.5	32.5	
XF 304, XF 321	38.3	38.3	38.3	
XF 313, XF 314	38.3	38.3	38.3	
XF 335-1, XF 335-2	41.8	41.8	41.8	
XF 503	34.5	34.5	34.5	
XF Module 1510	40.0	40.0	40.0	
XF Module 1519	40.9	40.9	40.9	
Receiver N-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 68.5 dB(A)		Ld 7-19 dB(A)	Leq,N 58.0 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	30.7			
Air Compressor C 1	46.7	46.7	46.7	
Air Compressor Pump	19.6	19.6	19.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Blower F 401	43.8	43.8	43.8	
Boiler Crude Unit-Heater Opening	18.1	18.1	18.1	
Compressor House C301, C302, C 124-Comp House East 1	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House East 2	31.2	31.2	31.2	
Compressor House C301, C302, C 124-Comp House North	41.7	41.7	41.7	
Compressor House C301, C302, C 124-Comp House South 1	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House South 2	20.8	20.8	20.8	
Compressor House C301, C302, C 124-Comp House West	23.5	23.5	23.5	
Construciton Control Room Max Evening Night	32.2	39.2		
Construciton Control Room Max Day	48.9		49.9	
Construction / Renewable Fuels Truck Tr	39.9	11.3	40.6	
Construction Demolition Warehouse Max Day	34.6		35.5	
Construction Demoltion Loading Racks Max Day	47.7		48.7	
Construction H2 Plant Max Day	52.0		53.0	
Construction H2 Plant Max Evening Night	35.3	42.3		
Construction PreTreat Building Max Day	39.5		40.5	
Construction PreTreat Building Max Evening Night	22.8	29.8		
Construction Unit A Construction Max Day	67.9		68.8	
Construction Unit B 2 Max Evening Night	27.1	34.1		
Construction Unit B Max Day	43.8		44.8	
Cooling Tower CT 510-CT 510 East Side	18.4	18.4	18.4	
Cooling Tower CT 510-CT 510 West Side	33.4	33.4	33.4	
Cooling Tower CT 511-CT 511 East Side	19.8	19.8	19.8	
Cooling Tower CT 511-CT 511 West Side	35.8	35.8	35.8	
Cooling Tower M 512	20.8	20.8	20.8	
Cooling Tower M 513	21.5	21.5	21.5	
Cooling Tower M 514	20.3	20.3	20.3	
Crude Operatoin Truck Truck Traffic	24.2	24.2	24.2	
Heater # 5-Heater	13.8	13.8	13.8	
Heater # 5-Heater	12.3	12.3	12.3	
Heater # 5-Heater	13.5	13.5	13.5	
Hydro Heater H-402	32.3	32.3	32.3	
Motor & Pump P - 1502 Splitter Reflux Pu	32.7	32.7	32.7	
Motor & Pump P - 1503 Splitter Bottoms P	32.6	32.6	32.6	
Motor & Pump P - 1504 Splitter Bottoms P	32.7	32.7	32.7	
Motor & Pump P - 1507 Reactor Pump	33.2	33.2	33.2	
Motor & Pump P - 1508 Reactor Pump	33.0	33.0	33.0	
Motor & Pump P - 1511 Stabilizer Reflux	26.0	26.0	26.0	
Motor & Pump P - 1512 Stabilizer Reflux	28.6	28.6	28.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	32.4	32.4	32.4	
Motor & Pump P - 1514 Caustic Circulatin	29.3	29.3	29.3	
Motor & Pump P 120/121	32.6	32.6	32.6	
Motor & Pump P 1505 FRESH FEED PUMPS	32.9	32.9	32.9	
Motor & Pump P 1506 FRESH FEED PUMPS	33.0	33.0	33.0	
Motor & Pump P 1509 Chloride Injection P	32.8	32.8	32.8	
Motor & Pump P 1510 Chloride Injection P	30.8	30.8	30.8	
Motor & Pump P 1601 A	25.8	25.8	25.8	
Motor & Pump P 1601 B	24.7	24.7	24.7	
Motor & Pump P 1602 A	25.3	25.3	25.3	
Motor & Pump P 1602 B	26.4	26.4	26.4	
Motor & Pump P 211/212	19.0	19.0	19.0	
Motor & Pump P 215/214	20.9	20.9	20.9	
Motor & Pump P 216	24.4	24.4	24.4	
Motor & Pump P 217/218	19.9	19.9	19.9	
Motor & Pump P 300	35.1	35.1	35.1	
Motor & Pump P 301	42.8	42.8	42.8	
Motor & Pump P 302	31.7	31.7	31.7	
Motor & Pump P 303	31.1	31.1	31.1	
Motor & Pump P 305	31.3	31.3	31.3	
Motor & Pump P 306	46.3	46.3	46.3	
Motor & Pump P 307	44.2	44.2	44.2	
Motor & Pump P 309	31.3	31.3	31.3	
Motor & Pump P 312	34.5	34.5	34.5	
Motor & Pump P 313	34.1	34.1	34.1	
Motor & Pump P 315	34.3	34.3	34.3	
Motor & Pump P 316	34.0	34.0	34.0	
Motor & Pump P 317	33.6	33.6	33.6	
Motor & Pump P 318	31.9	31.9	31.9	
Motor & Pump P 319	32.2	32.2	32.2	
Motor & Pump P 327	49.9	49.9	49.9	
Motor & Pump P 328	43.4	43.4	43.4	
Motor & Pump P 329	43.4	43.4	43.4	
Motor & Pump P 451	23.1	23.1	23.1	
Motor & Pump P 453	21.1	21.1	21.1	
Motor & Pump P 454	25.0	25.0	25.0	
Motor & Pump P 457	21.4	21.4	21.4	
Motor & Pump P 458	22.4	22.4	22.4	
Motor & Pump P 459	25.1	25.1	25.1	
Motor & Pump P 56A/B	23.0	23.0	23.0	
Rail Cars Bumping 6 times in during delivery	30.3		42.1	
Tank Farm Pump 1	18.2	18.2	18.2	
Tank Farm Pump 2	16.1	16.1	16.1	
Tank Farm Pump 3	17.3	17.3	17.3	
UP Train Locomotive Delivery and Pickup	32.0		43.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF-1502 Splitter Area 1	37.3	37.3	37.3	
XF-1502 Splitter Area 2	37.0	37.0	37.0	
XF-1504 Splitter Area 1	35.3	35.3	35.3	
XF-1504 Splitter Area 2	35.9	35.9	35.9	
XF - 1601	26.6	26.6	26.6	
XF - 1602	31.4	31.4	31.4	
XF 304, XF 321	41.6	41.6	41.6	
XF 313, XF 314	50.2	50.2	50.2	
XF 335-1, XF 335-2	45.9	45.9	45.9	
XF 503	42.4	42.4	42.4	
XF Module 1510	41.0	41.0	41.0	
XF Module 1519	42.0	42.0	42.0	
Receiver N-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 58.3 dB(A)	Ld 7-19 dB(A)	Leq,N 52.5 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	22.8			
Air Compressor C 1	40.9	40.9	40.9	
Air Compressor Pump	21.9	21.9	21.9	
Blower F 401	37.6	37.6	37.6	
Boiler Crude Unit-Heater Opening	19.7	19.7	19.7	
Compressor House C301, C302, C 124-Comp House East 1	31.0	31.0	31.0	
Compressor House C301, C302, C 124-Comp House East 2	25.0	25.0	25.0	
Compressor House C301, C302, C 124-Comp House North	35.1	35.1	35.1	
Compressor House C301, C302, C 124-Comp House South 1	25.6	25.6	25.6	
Compressor House C301, C302, C 124-Comp House South 2	19.0	19.0	19.0	
Compressor House C301, C302, C 124-Comp House West	14.9	14.9	14.9	
Construciton Control Room Max Evening Night	30.1	37.1		
Construciton Control Room Max Day	46.9		47.8	
Construction / Renewable Fuels Truck Tr	36.3	9.1	37.0	
Construction Demolition Warehouse Max Day	37.2		38.1	
Construction Demoltion Loading Racks Max Day	49.7		50.7	
Construction H2 Plant Max Day	52.8		53.8	
Construction H2 Plant Max Evening Night	36.1	43.1		
Construction PreTreat Building Max Day	43.2		44.1	
Construction PreTreat Building Max Evening Night	26.5	33.4		
Construction Unit A Construction Max Day	50.5		51.5	
Construction Unit B 2 Max Evening Night	30.7	37.7		
Construction Unit B Max Day	47.5		48.4	
Cooling Tower CT 510-CT 510 East Side	28.1	28.1	28.1	
Cooling Tower CT 510-CT 510 West Side	16.5	16.5	16.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower CT 511-CT 511 East Side	31.4	31.4	31.4	
Cooling Tower CT 511-CT 511 West Side	20.6	20.6	20.6	
Cooling Tower M 512	21.0	21.0	21.0	
Cooling Tower M 513	20.9	20.9	20.9	
Cooling Tower M 514	21.0	21.0	21.0	
Crude Operatoin Truck Truck Traffic	23.4	23.4	23.4	
Heater # 5-Heater	15.8	15.8	15.8	
Heater # 5-Heater	14.5	14.5	14.5	
Heater # 5-Heater	13.0	13.0	13.0	
Hydro Heater H-402	24.4	24.4	24.4	
Motor & Pump P - 1502 Splitter Reflux Pu	24.3	24.3	24.3	
Motor & Pump P - 1503 Splitter Bottoms P	24.6	24.6	24.6	
Motor & Pump P - 1504 Splitter Bottoms P	24.2	24.2	24.2	
Motor & Pump P - 1507 Reactor Pump	22.9	22.9	22.9	
Motor & Pump P - 1508 Reactor Pump	22.3	22.3	22.3	
Motor & Pump P - 1511 Stabilizer Reflux	24.8	24.8	24.8	
Motor & Pump P - 1512 Stabilizer Reflux	23.6	23.6	23.6	
Motor & Pump P - 1513 Caustic Circulatin	23.3	23.3	23.3	
Motor & Pump P - 1514 Caustic Circulatin	23.6	23.6	23.6	
Motor & Pump P 120/121	27.8	27.8	27.8	
Motor & Pump P 1505 FRESH FEED PUMPS	23.7	23.7	23.7	
Motor & Pump P 1506 FRESH FEED PUMPS	24.0	24.0	24.0	
Motor & Pump P 1509 Chloride Injection P	23.2	23.2	23.2	
Motor & Pump P 1510 Chloride Injection P	23.1	23.1	23.1	
Motor & Pump P 1601 A	24.8	24.8	24.8	
Motor & Pump P 1601 B	24.8	24.8	24.8	
Motor & Pump P 1602 A	24.4	24.4	24.4	
Motor & Pump P 1602 B	24.6	24.6	24.6	
Motor & Pump P 211/212	21.1	21.1	21.1	
Motor & Pump P 215/214	21.6	21.6	21.6	
Motor & Pump P 216	21.6	21.6	21.6	
Motor & Pump P 217/218	21.4	21.4	21.4	
Motor & Pump P 300	30.2	30.2	30.2	
Motor & Pump P 301	36.7	36.7	36.7	
Motor & Pump P 302	26.1	26.1	26.1	
Motor & Pump P 303	30.5	30.5	30.5	
Motor & Pump P 305	32.3	32.3	32.3	
Motor & Pump P 306	38.6	38.6	38.6	
Motor & Pump P 307	37.4	37.4	37.4	
Motor & Pump P 309	32.3	32.3	32.3	
Motor & Pump P 312	29.3	29.3	29.3	
Motor & Pump P 313	29.5	29.5	29.5	
Motor & Pump P 315	28.6	28.6	28.6	
Motor & Pump P 316	28.5	28.5	28.5	
Motor & Pump P 317	28.5	28.5	28.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 318	26.2	26.2	26.2	
Motor & Pump P 319	28.3	28.3	28.3	
Motor & Pump P 327	39.9	39.9	39.9	
Motor & Pump P 328	44.2	44.2	44.2	
Motor & Pump P 329	43.3	43.3	43.3	
Motor & Pump P 451	17.3	17.3	17.3	
Motor & Pump P 453	17.2	17.2	17.2	
Motor & Pump P 454	17.5	17.5	17.5	
Motor & Pump P 457	17.1	17.1	17.1	
Motor & Pump P 458	17.4	17.4	17.4	
Motor & Pump P 459	17.6	17.6	17.6	
Motor & Pump P 56A/B	19.0	19.0	19.0	
Rail Cars Bumping 6 times in during delivery	24.0		35.7	
Tank Farm Pump 1	21.2	21.2	21.2	
Tank Farm Pump 2	21.8	21.8	21.8	
Tank Farm Pump 3	21.7	21.7	21.7	
UP Train Locomotive Delivery and Pickup	22.9		34.7	
XF-1502 Splitter Area 1	25.7	25.7	25.7	
XF-1502 Splitter Area 2	27.3	27.3	27.3	
XF-1504 Splitter Area 1	27.7	27.7	27.7	
XF-1504 Splitter Area 2	27.9	27.9	27.9	
XF - 1601	24.0	24.0	24.0	
XF - 1602	24.0	24.0	24.0	
XF 304, XF 321	35.6	35.6	35.6	
XF 313, XF 314	38.7	38.7	38.7	
XF 335-1, XF 335-2	38.0	38.0	38.0	
XF 503	32.5	32.5	32.5	
XF Module 1510	30.1	30.1	30.1	
XF Module 1519	31.1	31.1	31.1	
Receiver N-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 57.9 dB(A)	Ld 7-19 dB(A)	Leq,N 49.1 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	22.0			
Air Compressor C 1	37.7	37.7	37.7	
Air Compressor Pump	21.2	21.2	21.2	
Blower F 401	34.8	34.8	34.8	
Boiler Crude Unit-Heater Opening	21.9	21.9	21.9	
Compressor House C301, C302, C 124-Comp House East 1	27.5	27.5	27.5	
Compressor House C301, C302, C 124-Comp House East 2	22.4	22.4	22.4	
Compressor House C301, C302, C 124-Comp House North	32.4	32.4	32.4	
Compressor House C301, C302, C 124-Comp House South 1	23.8	23.8	23.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House South 2	16.9	16.9	16.9	
Compressor House C301, C302, C 124-Comp House West	12.7	12.7	12.7	
Construciton Control Room Max Evening Night	36.3	43.2		
Construciton Control Room Max Day	53.0		53.9	
Construction / Renewable Fuels Truck Tr	38.4	5.7	39.1	
Construction Demolition Warehouse Max Day	38.2		39.1	
Construction Demoltion Loading Racks Max Day	51.4		52.3	
Construction H2 Plant Max Day	48.0		48.9	
Construction H2 Plant Max Evening Night	31.2	38.2		
Construction PreTreat Building Max Day	45.2		46.2	
Construction PreTreat Building Max Evening Night	28.5	35.5		
Construction Unit A Construction Max Day	44.6		45.6	
Construction Unit B 2 Max Evening Night	33.1	40.1		
Construction Unit B Max Day	49.8		50.8	
Cooling Tower CT 510-CT 510 East Side	21.9	21.9	21.9	
Cooling Tower CT 510-CT 510 West Side	10.3	10.3	10.3	
Cooling Tower CT 511-CT 511 East Side	25.5	25.5	25.5	
Cooling Tower CT 511-CT 511 West Side	17.0	17.0	17.0	
Cooling Tower M 512	16.6	16.6	16.6	
Cooling Tower M 513	16.4	16.4	16.4	
Cooling Tower M 514	16.5	16.5	16.5	
Crude Operatoin Truck Truck Traffic	28.2	28.2	28.2	
Heater # 5-Heater	16.6	16.6	16.6	
Heater # 5-Heater	16.5	16.5	16.5	
Heater # 5-Heater	13.8	13.8	13.8	
Hydro Heater H-402	20.2	20.2	20.2	
Motor & Pump P - 1502 Splitter Reflux Pu	17.5	17.5	17.5	
Motor & Pump P - 1503 Splitter Bottoms P	19.0	19.0	19.0	
Motor & Pump P - 1504 Splitter Bottoms P	19.6	19.6	19.6	
Motor & Pump P - 1507 Reactor Pump	19.1	19.1	19.1	
Motor & Pump P - 1508 Reactor Pump	18.9	18.9	18.9	
Motor & Pump P - 1511 Stabilizer Reflux	19.6	19.6	19.6	
Motor & Pump P - 1512 Stabilizer Reflux	19.5	19.5	19.5	
Motor & Pump P - 1513 Caustic Circulatin	20.4	20.4	20.4	
Motor & Pump P - 1514 Caustic Circulatin	20.1	20.1	20.1	
Motor & Pump P 120/121	19.7	19.7	19.7	
Motor & Pump P 1505 FRESH FEED PUMPS	18.7	18.7	18.7	
Motor & Pump P 1506 FRESH FEED PUMPS	18.7	18.7	18.7	
Motor & Pump P 1509 Chloride Injection P	20.0	20.0	20.0	
Motor & Pump P 1510 Chloride Injection P	20.1	20.1	20.1	
Motor & Pump P 1601 A	19.7	19.7	19.7	
Motor & Pump P 1601 B	19.7	19.7	19.7	
Motor & Pump P 1602 A	19.7	19.7	19.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1602 B	17.9	17.9	17.9	
Motor & Pump P 211/212	11.9	11.9	11.9	
Motor & Pump P 215/214	19.5	19.5	19.5	
Motor & Pump P 216	19.0	19.0	19.0	
Motor & Pump P 217/218	12.0	12.0	12.0	
Motor & Pump P 300	21.4	21.4	21.4	
Motor & Pump P 301	27.1	27.1	27.1	
Motor & Pump P 302	20.4	20.4	20.4	
Motor & Pump P 303	24.7	24.7	24.7	
Motor & Pump P 305	21.5	21.5	21.5	
Motor & Pump P 306	34.7	34.7	34.7	
Motor & Pump P 307	27.7	27.7	27.7	
Motor & Pump P 309	20.5	20.5	20.5	
Motor & Pump P 312	25.2	25.2	25.2	
Motor & Pump P 313	25.8	25.8	25.8	
Motor & Pump P 315	27.5	27.5	27.5	
Motor & Pump P 316	26.3	26.3	26.3	
Motor & Pump P 317	26.4	26.4	26.4	
Motor & Pump P 318	25.6	25.6	25.6	
Motor & Pump P 319	24.8	24.8	24.8	
Motor & Pump P 327	36.3	36.3	36.3	
Motor & Pump P 328	32.9	32.9	32.9	
Motor & Pump P 329	33.2	33.2	33.2	
Motor & Pump P 451	13.3	13.3	13.3	
Motor & Pump P 453	13.7	13.7	13.7	
Motor & Pump P 454	12.9	12.9	12.9	
Motor & Pump P 457	12.9	12.9	12.9	
Motor & Pump P 458	13.4	13.4	13.4	
Motor & Pump P 459	12.9	12.9	12.9	
Motor & Pump P 56A/B	15.3	15.3	15.3	
Rail Cars Bumping 6 times in during delivery	23.6		35.3	
Tank Farm Pump 1	24.2	24.2	24.2	
Tank Farm Pump 2	23.4	23.4	23.4	
Tank Farm Pump 3	23.1	23.1	23.1	
UP Train Locomotive Delivery and Pickup	20.9		32.6	
XF-1502 Splitter Area 1	22.5	22.5	22.5	
XF-1502 Splitter Area 2	22.4	22.4	22.4	
XF-1504 Splitter Area 1	22.6	22.6	22.6	
XF-1504 Splitter Area 2	22.5	22.5	22.5	
XF - 1601	19.6	19.6	19.6	
XF - 1602	19.8	19.8	19.8	
XF 304, XF 321	31.4	31.4	31.4	
XF 313, XF 314	31.7	31.7	31.7	
XF 335-1, XF 335-2	33.6	33.6	33.6	
XF 503	30.5	30.5	30.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF Module 1510	25.6	25.6	25.6	
XF Module 1519	26.5	26.5	26.5	
Receiver N-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 63.1 dB(A)	Ld 7-19 dB(A)	Leq,N 45.0 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	19.1			
Air Compressor C 1	33.0	33.0	33.0	
Air Compressor Pump	18.1	18.1	18.1	
Blower F 401	33.4	33.4	33.4	
Boiler Crude Unit-Heater Opening	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House East 1	22.4	22.4	22.4	
Compressor House C301, C302, C 124-Comp House East 2	16.9	16.9	16.9	
Compressor House C301, C302, C 124-Comp House North	28.1	28.1	28.1	
Compressor House C301, C302, C 124-Comp House South 1	20.4	20.4	20.4	
Compressor House C301, C302, C 124-Comp House South 2	14.4	14.4	14.4	
Compressor House C301, C302, C 124-Comp House West	8.0	8.0	8.0	
Construciton Control Room Max Evening Night	29.1	36.1		
Construciton Control Room Max Day	45.8		46.8	
Construction / Renewable Fuels Truck Tr	35.8	12.4	36.5	
Construction Demolition Warehouse Max Day	41.7		42.7	
Construction Demoltion Loading Racks Max Day	62.7		63.7	
Construction H2 Plant Max Day	44.3		45.3	
Construction H2 Plant Max Evening Night	27.6	34.6		
Construction PreTreat Building Max Day	46.6		47.6	
Construction PreTreat Building Max Evening Night	29.9	36.9		
Construction Unit A Construction Max Day	37.4		38.4	
Construction Unit B 2 Max Evening Night	26.6	33.6		
Construction Unit B Max Day	43.3		44.3	
Cooling Tower CT 510-CT 510 East Side	18.3	18.3	18.3	
Cooling Tower CT 510-CT 510 West Side	8.1	8.1	8.1	
Cooling Tower CT 511-CT 511 East Side	22.6	22.6	22.6	
Cooling Tower CT 511-CT 511 West Side	15.1	15.1	15.1	
Cooling Tower M 512	13.8	13.8	13.8	
Cooling Tower M 513	13.7	13.7	13.7	
Cooling Tower M 514	14.1	14.1	14.1	
Crude Operatoin Truck Truck Traffic	35.4	35.4	35.4	
Heater # 5-Heater	12.7	12.7	12.7	
Heater # 5-Heater	15.8	15.8	15.8	
Heater # 5-Heater	13.7	13.7	13.7	
Hydro Heater H-402	16.7	16.7	16.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1502 Splitter Reflux Pu	15.6	15.6	15.6	
Motor & Pump P - 1503 Splitter Bottoms P	16.8	16.8	16.8	
Motor & Pump P - 1504 Splitter Bottoms P	16.3	16.3	16.3	
Motor & Pump P - 1507 Reactor Pump	17.0	17.0	17.0	
Motor & Pump P - 1508 Reactor Pump	16.4	16.4	16.4	
Motor & Pump P - 1511 Stabilizer Reflux	14.8	14.8	14.8	
Motor & Pump P - 1512 Stabilizer Reflux	14.8	14.8	14.8	
Motor & Pump P - 1513 Caustic Circulatin	15.0	15.0	15.0	
Motor & Pump P - 1514 Caustic Circulatin	14.8	14.8	14.8	
Motor & Pump P 120/121	13.2	13.2	13.2	
Motor & Pump P 1505 FRESH FEED PUMPS	13.5	13.5	13.5	
Motor & Pump P 1506 FRESH FEED PUMPS	16.4	16.4	16.4	
Motor & Pump P 1509 Chloride Injection P	13.1	13.1	13.1	
Motor & Pump P 1510 Chloride Injection P	13.3	13.3	13.3	
Motor & Pump P 1601 A	14.8	14.8	14.8	
Motor & Pump P 1601 B	14.8	14.8	14.8	
Motor & Pump P 1602 A	14.8	14.8	14.8	
Motor & Pump P 1602 B	15.1	15.1	15.1	
Motor & Pump P 211/212	9.0	9.0	9.0	
Motor & Pump P 215/214	11.7	11.7	11.7	
Motor & Pump P 216	13.4	13.4	13.4	
Motor & Pump P 217/218	9.5	9.5	9.5	
Motor & Pump P 300	14.1	14.1	14.1	
Motor & Pump P 301	19.0	19.0	19.0	
Motor & Pump P 302	14.3	14.3	14.3	
Motor & Pump P 303	14.1	14.1	14.1	
Motor & Pump P 305	15.2	15.2	15.2	
Motor & Pump P 306	29.2	29.2	29.2	
Motor & Pump P 307	20.5	20.5	20.5	
Motor & Pump P 309	14.9	14.9	14.9	
Motor & Pump P 312	18.5	18.5	18.5	
Motor & Pump P 313	18.4	18.4	18.4	
Motor & Pump P 315	21.0	21.0	21.0	
Motor & Pump P 316	21.6	21.6	21.6	
Motor & Pump P 317	19.6	19.6	19.6	
Motor & Pump P 318	17.5	17.5	17.5	
Motor & Pump P 319	17.1	17.1	17.1	
Motor & Pump P 327	29.5	29.5	29.5	
Motor & Pump P 328	26.9	26.9	26.9	
Motor & Pump P 329	27.1	27.1	27.1	
Motor & Pump P 451	10.6	10.6	10.6	
Motor & Pump P 453	11.7	11.7	11.7	
Motor & Pump P 454	11.4	11.4	11.4	
Motor & Pump P 457	11.6	11.6	11.6	
Motor & Pump P 458	10.6	10.6	10.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 459	10.6	10.6	10.6	
Motor & Pump P 56A/B	10.5	10.5	10.5	
Rail Cars Bumping 6 times in during delivery	19.3		31.1	
Tank Farm Pump 1	24.2	24.2	24.2	
Tank Farm Pump 2	23.6	23.6	23.6	
Tank Farm Pump 3	23.2	23.2	23.2	
UP Train Locomotive Delivery and Pickup	18.1		29.8	
XF-1502 Splitter Area 1	19.0	19.0	19.0	
XF-1502 Splitter Area 2	18.9	18.9	18.9	
XF-1504 Splitter Area 1	19.2	19.2	19.2	
XF-1504 Splitter Area 2	19.0	19.0	19.0	
XF - 1601	16.2	16.2	16.2	
XF - 1602	16.4	16.4	16.4	
XF 304, XF 321	26.9	26.9	26.9	
XF 313, XF 314	27.6	27.6	27.6	
XF 335-1, XF 335-2	29.1	29.1	29.1	
XF 503	26.1	26.1	26.1	
XF Module 1510	22.4	22.4	22.4	
XF Module 1519	23.9	23.9	23.9	
Receiver N-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.6 dB(A) Ld 7-19 dB(A) Leq,N 56.4 dB(A) Le 19-2				
2011 Track Mobile switch moving rail cars 33 cars per day	27.0			
Air Compressor C 1	36.2	36.2	36.2	
Air Compressor Pump	22.2	22.2	22.2	
Blower F 401	41.7	41.7	41.7	
Boiler Crude Unit-Heater Opening	28.4	28.4	28.4	
Compressor House C301, C302, C 124-Comp House East 1	25.8	25.8	25.8	
Compressor House C301, C302, C 124-Comp House East 2	26.0	26.0	26.0	
Compressor House C301, C302, C 124-Comp House North	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House South 1	23.4	23.4	23.4	
Compressor House C301, C302, C 124-Comp House South 2	17.7	17.7	17.7	
Compressor House C301, C302, C 124-Comp House West	10.6	10.6	10.6	
Construciton Control Room Max Evening Night	38.6	45.6		
Construciton Control Room Max Day	55.3		56.3	
Construction / Renewable Fuels Truck Tr	47.7	17.6	48.4	
Construction Demolition Warehouse Max Day	50.0		51.0	
Construction Demoltion Loading Racks Max Day	70.5		71.5	
Construction H2 Plant Max Day	49.7		50.6	
Construction H2 Plant Max Evening Night	33.0	39.9		

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction PreTreat Building Max Day	63.1		64.0	
Construction PreTreat Building Max Evening Night	46.3	53.3		
Construction Unit A Construction Max Day	45.1		46.0	
Construction Unit B 2 Max Evening Night	40.1	47.1		
Construction Unit B Max Day	56.8		57.8	
Cooling Tower CT 510-CT 510 East Side	23.2	23.2	23.2	
Cooling Tower CT 510-CT 510 West Side	10.4	10.4	10.4	
Cooling Tower CT 511-CT 511 East Side	29.6	29.6	29.6	
Cooling Tower CT 511-CT 511 West Side	20.1	20.1	20.1	
Cooling Tower M 512	16.5	16.5	16.5	
Cooling Tower M 513	17.1	17.1	17.1	
Cooling Tower M 514	18.8	18.8	18.8	
Crude Operatoin Truck Truck Traffic	44.4	44.4	44.4	
Heater # 5-Heater	20.6	20.6	20.6	
Heater # 5-Heater	23.2	23.2	23.2	
Heater # 5-Heater	20.0	20.0	20.0	
Hydro Heater H-402	17.2	17.2	17.2	
Motor & Pump P - 1502 Splitter Reflux Pu	18.9	18.9	18.9	
Motor & Pump P - 1503 Splitter Bottoms P	22.7	22.7	22.7	
Motor & Pump P - 1504 Splitter Bottoms P	20.4	20.4	20.4	
Motor & Pump P - 1507 Reactor Pump	23.3	23.3	23.3	
Motor & Pump P - 1508 Reactor Pump	21.1	21.1	21.1	
Motor & Pump P - 1511 Stabilizer Reflux	19.4	19.4	19.4	
Motor & Pump P - 1512 Stabilizer Reflux	19.0	19.0	19.0	
Motor & Pump P - 1513 Caustic Circulatin	18.9	18.9	18.9	
Motor & Pump P - 1514 Caustic Circulatin	18.9	18.9	18.9	
Motor & Pump P 120/121	15.8	15.8	15.8	
Motor & Pump P 1505 FRESH FEED PUMPS	19.7	19.7	19.7	
Motor & Pump P 1506 FRESH FEED PUMPS	21.4	21.4	21.4	
Motor & Pump P 1509 Chloride Injection P	12.0	12.0	12.0	
Motor & Pump P 1510 Chloride Injection P	13.4	13.4	13.4	
Motor & Pump P 1601 A	19.4	19.4	19.4	
Motor & Pump P 1601 B	19.4	19.4	19.4	
Motor & Pump P 1602 A	19.4	19.4	19.4	
Motor & Pump P 1602 B	19.6	19.6	19.6	
Motor & Pump P 211/212	15.4	15.4	15.4	
Motor & Pump P 215/214	18.1	18.1	18.1	
Motor & Pump P 216	18.1	18.1	18.1	
Motor & Pump P 217/218	13.6	13.6	13.6	
Motor & Pump P 300	18.1	18.1	18.1	
Motor & Pump P 301	22.8	22.8	22.8	
Motor & Pump P 302	15.8	15.8	15.8	
Motor & Pump P 303	17.5	17.5	17.5	
Motor & Pump P 305	17.9	17.9	17.9	
Motor & Pump P 306	31.3	31.3	31.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 307	22.4	22.4	22.4	
Motor & Pump P 309	15.2	15.2	15.2	
Motor & Pump P 312	21.5	21.5	21.5	
Motor & Pump P 313	24.6	24.6	24.6	
Motor & Pump P 315	26.2	26.2	26.2	
Motor & Pump P 316	27.2	27.2	27.2	
Motor & Pump P 317	27.8	27.8	27.8	
Motor & Pump P 318	22.7	22.7	22.7	
Motor & Pump P 319	23.1	23.1	23.1	
Motor & Pump P 327	29.0	29.0	29.0	
Motor & Pump P 328	27.6	27.6	27.6	
Motor & Pump P 329	27.4	27.4	27.4	
Motor & Pump P 451	14.7	14.7	14.7	
Motor & Pump P 453	14.8	14.8	14.8	
Motor & Pump P 454	15.4	15.4	15.4	
Motor & Pump P 457	15.0	15.0	15.0	
Motor & Pump P 458	14.6	14.6	14.6	
Motor & Pump P 459	15.4	15.4	15.4	
Motor & Pump P 56A/B	14.3	14.3	14.3	
Rail Cars Bumping 6 times in during delivery	28.6		40.4	
Tank Farm Pump 1	28.5	28.5	28.5	
Tank Farm Pump 2	37.0	37.0	37.0	
Tank Farm Pump 3	45.1	45.1	45.1	
UP Train Locomotive Delivery and Pickup	23.9		35.7	
XF-1502 Splitter Area 1	29.3	29.3	29.3	
XF-1502 Splitter Area 2	27.2	27.2	27.2	
XF-1504 Splitter Area 1	29.6	29.6	29.6	
XF-1504 Splitter Area 2	27.1	27.1	27.1	
XF - 1601	28.2	28.2	28.2	
XF - 1602	28.1	28.1	28.1	
XF 304, XF 321	33.5	33.5	33.5	
XF 313, XF 314	39.6	39.6	39.6	
XF 335-1, XF 335-2	35.2	35.2	35.2	
XF 503	34.7	34.7	34.7	
XF Module 1510	30.3	30.3	30.3	
XF Module 1519	33.2	33.2	33.2	
Receiver N-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 73.9 dB(A)		Ld 7-19 dB(A)	Leq,N 48.2 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	19.6			
Air Compressor C 1	35.0	35.0	35.0	
Air Compressor Pump	20.5	20.5	20.5	
Blower F 401	33.9	33.9	33.9	
Boiler Crude Unit-Heater Opening	18.7	18.7	18.7	
Compressor House C301, C302, C 124-Comp House East 1	22.7	22.7	22.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	25.2	25.2	25.2	
Compressor House C301, C302, C 124-Comp House North	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House South 1	20.0	20.0	20.0	
Compressor House C301, C302, C 124-Comp House South 2	14.1	14.1	14.1	
Compressor House C301, C302, C 124-Comp House West	6.7	6.7	6.7	
Construciton Control Room Max Evening Night	25.3	32.3		
Construciton Control Room Max Day	42.1		43.0	
Construction / Renewable Fuels Truck Tr	39.8	27.0	40.5	
Construction Demolition Warehouse Max Day	56.1		57.1	
Construction Demoltion Loading Racks Max Day	73.8		74.8	
Construction H2 Plant Max Day	42.9		43.9	
Construction H2 Plant Max Evening Night	26.2	33.2		
Construction PreTreat Building Max Day	46.4		47.4	
Construction PreTreat Building Max Evening Night	29.7	36.7		
Construction Unit A Construction Max Day	44.0		44.9	
Construction Unit B 2 Max Evening Night	24.0	31.0		
Construction Unit B Max Day	40.8		41.7	
Cooling Tower CT 510-CT 510 East Side	18.7	18.7	18.7	
Cooling Tower CT 510-CT 510 West Side	5.9	5.9	5.9	
Cooling Tower CT 511-CT 511 East Side	24.1	24.1	24.1	
Cooling Tower CT 511-CT 511 West Side	14.3	14.3	14.3	
Cooling Tower M 512	10.2	10.2	10.2	
Cooling Tower M 513	10.3	10.3	10.3	
Cooling Tower M 514	10.1	10.1	10.1	
Crude Operatoin Truck Truck Traffic	44.4	44.4	44.4	
Heater # 5-Heater	11.9	11.9	11.9	
Heater # 5-Heater	15.0	15.0	15.0	
Heater # 5-Heater	10.9	10.9	10.9	
Hydro Heater H-402	14.0	14.0	14.0	
Motor & Pump P - 1502 Splitter Reflux Pu	9.2	9.2	9.2	
Motor & Pump P - 1503 Splitter Bottoms P	18.6	18.6	18.6	
Motor & Pump P - 1504 Splitter Bottoms P	18.6	18.6	18.6	
Motor & Pump P - 1507 Reactor Pump	18.7	18.7	18.7	
Motor & Pump P - 1508 Reactor Pump	18.7	18.7	18.7	
Motor & Pump P - 1511 Stabilizer Reflux	18.1	18.1	18.1	
Motor & Pump P - 1512 Stabilizer Reflux	17.3	17.3	17.3	
Motor & Pump P - 1513 Caustic Circulatin	15.6	15.6	15.6	
Motor & Pump P - 1514 Caustic Circulatin	16.5	16.5	16.5	
Motor & Pump P 120/121	13.9	13.9	13.9	
Motor & Pump P 1505 FRESH FEED PUMPS	18.9	18.9	18.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	18.9	18.9	18.9	
Motor & Pump P 1509 Chloride Injection P	8.7	8.7	8.7	
Motor & Pump P 1510 Chloride Injection P	10.6	10.6	10.6	
Motor & Pump P 1601 A	18.8	18.8	18.8	
Motor & Pump P 1601 B	19.0	19.0	19.0	
Motor & Pump P 1602 A	19.3	19.3	19.3	
Motor & Pump P 1602 B	19.7	19.7	19.7	
Motor & Pump P 211/212	4.9	4.9	4.9	
Motor & Pump P 215/214	13.9	13.9	13.9	
Motor & Pump P 216	13.9	13.9	13.9	
Motor & Pump P 217/218	5.0	5.0	5.0	
Motor & Pump P 300	15.1	15.1	15.1	
Motor & Pump P 301	20.1	20.1	20.1	
Motor & Pump P 302	16.4	16.4	16.4	
Motor & Pump P 303	16.5	16.5	16.5	
Motor & Pump P 305	16.8	16.8	16.8	
Motor & Pump P 306	29.3	29.3	29.3	
Motor & Pump P 307	20.5	20.5	20.5	
Motor & Pump P 309	12.7	12.7	12.7	
Motor & Pump P 312	18.5	18.5	18.5	
Motor & Pump P 313	18.0	18.0	18.0	
Motor & Pump P 315	21.8	21.8	21.8	
Motor & Pump P 316	22.0	22.0	22.0	
Motor & Pump P 317	16.6	16.6	16.6	
Motor & Pump P 318	21.4	21.4	21.4	
Motor & Pump P 319	18.7	18.7	18.7	
Motor & Pump P 327	28.2	28.2	28.2	
Motor & Pump P 328	25.5	25.5	25.5	
Motor & Pump P 329	25.3	25.3	25.3	
Motor & Pump P 451	9.1	9.1	9.1	
Motor & Pump P 453	13.3	13.3	13.3	
Motor & Pump P 454	9.2	9.2	9.2	
Motor & Pump P 457	13.3	13.3	13.3	
Motor & Pump P 458	11.2	11.2	11.2	
Motor & Pump P 459	9.2	9.2	9.2	
Motor & Pump P 56A/B	10.9	10.9	10.9	
Rail Cars Bumping 6 times in during delivery	20.5		32.3	
Tank Farm Pump 1	21.6	21.6	21.6	
Tank Farm Pump 2	20.0	20.0	20.0	
Tank Farm Pump 3	19.6	19.6	19.6	
UP Train Locomotive Delivery and Pickup	20.9		32.6	
XF-1502 Splitter Area 1	27.3	27.3	27.3	
XF-1502 Splitter Area 2	27.2	27.2	27.2	
XF-1504 Splitter Area 1	27.3	27.3	27.3	
XF-1504 Splitter Area 2	27.2	27.2	27.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF - 1601	25.0	25.0	25.0	
XF - 1602	24.6	24.6	24.6	
XF 304, XF 321	31.8	31.8	31.8	
XF 313, XF 314	33.9	33.9	33.9	
XF 335-1, XF 335-2	34.7	34.7	34.7	
XF 503	33.3	33.3	33.3	
XF Module 1510	30.6	30.6	30.6	
XF Module 1519	31.4	31.4	31.4	
Receiver E-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 64.8 dB(A)		Ld 7-19 dB(A)	Leq,N 45.9 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	14.9			
Air Compressor C 1	31.3	31.3	31.3	
Air Compressor Pump	12.3	12.3	12.3	
Blower F 401	29.9	29.9	29.9	
Boiler Crude Unit-Heater Opening	17.3	17.3	17.3	
Compressor House C301, C302, C 124-Comp House East 1	17.7	17.7	17.7	
Compressor House C301, C302, C 124-Comp House East 2	12.9	12.9	12.9	
Compressor House C301, C302, C 124-Comp House North	25.5	25.5	25.5	
Compressor House C301, C302, C 124-Comp House South 1	18.0	18.0	18.0	
Compressor House C301, C302, C 124-Comp House South 2	11.2	11.2	11.2	
Compressor House C301, C302, C 124-Comp House West	4.2	4.2	4.2	
Construciton Control Room Max Evening Night	21.7	28.7		
Construciton Control Room Max Day	38.4		39.4	
Construction / Renewable Fuels Truck Tr	45.3	33.1	46.0	
Construction Demolition Warehouse Max Day	51.9		52.8	
Construction Demoltion Loading Racks Max Day	64.4		65.3	
Construction H2 Plant Max Day	36.8		37.8	
Construction H2 Plant Max Evening Night	20.1	27.1		
Construction PreTreat Building Max Day	44.7		45.7	
Construction PreTreat Building Max Evening Night	28.0	35.0		
Construction Unit A Construction Max Day	33.2		34.1	
Construction Unit B 2 Max Evening Night	21.4	28.4		
Construction Unit B Max Day	38.1		39.1	
Cooling Tower CT 510-CT 510 East Side	12.9	12.9	12.9	
Cooling Tower CT 510-CT 510 West Side	3.3	3.3	3.3	
Cooling Tower CT 511-CT 511 East Side	16.4	16.4	16.4	
Cooling Tower CT 511-CT 511 West Side	10.3	10.3	10.3	
Cooling Tower M 512	7.9	7.9	7.9	
Cooling Tower M 513	7.9	7.9	7.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower M 514	7.9	7.9	7.9	
Crude Operatoin Truck Truck Traffic	44.0	44.0	44.0	
Heater # 5-Heater	10.9	10.9	10.9	
Heater # 5-Heater	13.0	13.0	13.0	
Heater # 5-Heater	10.2	10.2	10.2	
Hydro Heater H-402	10.7	10.7	10.7	
Motor & Pump P - 1502 Splitter Reflux Pu	7.3	7.3	7.3	
Motor & Pump P - 1503 Splitter Bottoms P	8.7	8.7	8.7	
Motor & Pump P - 1504 Splitter Bottoms P	8.7	8.7	8.7	
Motor & Pump P - 1507 Reactor Pump	8.6	8.6	8.6	
Motor & Pump P - 1508 Reactor Pump	8.6	8.6	8.6	
Motor & Pump P - 1511 Stabilizer Reflux	8.7	8.7	8.7	
Motor & Pump P - 1512 Stabilizer Reflux	8.6	8.6	8.6	
Motor & Pump P - 1513 Caustic Circulatin	8.5	8.5	8.5	
Motor & Pump P - 1514 Caustic Circulatin	8.6	8.6	8.6	
Motor & Pump P 120/121	8.6	8.6	8.6	
Motor & Pump P 1505 FRESH FEED PUMPS	8.0	8.0	8.0	
Motor & Pump P 1506 FRESH FEED PUMPS	8.0	8.0	8.0	
Motor & Pump P 1509 Chloride Injection P	6.5	6.5	6.5	
Motor & Pump P 1510 Chloride Injection P	6.8	6.8	6.8	
Motor & Pump P 1601 A	8.8	8.8	8.8	
Motor & Pump P 1601 B	8.8	8.8	8.8	
Motor & Pump P 1602 A	8.8	8.8	8.8	
Motor & Pump P 1602 B	9.1	9.1	9.1	
Motor & Pump P 211/212	4.1	4.1	4.1	
Motor & Pump P 215/214	5.1	5.1	5.1	
Motor & Pump P 216	8.0	8.0	8.0	
Motor & Pump P 217/218	3.2	3.2	3.2	
Motor & Pump P 300	9.2	9.2	9.2	
Motor & Pump P 301	14.2	14.2	14.2	
Motor & Pump P 302	9.3	9.3	9.3	
Motor & Pump P 303	9.3	9.3	9.3	
Motor & Pump P 305	9.8	9.8	9.8	
Motor & Pump P 306	25.1	25.1	25.1	
Motor & Pump P 307	14.3	14.3	14.3	
Motor & Pump P 309	9.5	9.5	9.5	
Motor & Pump P 312	13.3	13.3	13.3	
Motor & Pump P 313	13.4	13.4	13.4	
Motor & Pump P 315	14.6	14.6	14.6	
Motor & Pump P 316	15.3	15.3	15.3	
Motor & Pump P 317	15.3	15.3	15.3	
Motor & Pump P 318	12.5	12.5	12.5	
Motor & Pump P 319	12.5	12.5	12.5	
Motor & Pump P 327	24.0	24.0	24.0	
Motor & Pump P 328	21.9	21.9	21.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 329	22.1	22.1	22.1	
Motor & Pump P 451	5.0	5.0	5.0	
Motor & Pump P 453	5.4	5.4	5.4	
Motor & Pump P 454	5.0	5.0	5.0	
Motor & Pump P 457	5.4	5.4	5.4	
Motor & Pump P 458	5.0	5.0	5.0	
Motor & Pump P 459	5.0	5.0	5.0	
Motor & Pump P 56A/B	4.2	4.2	4.2	
Rail Cars Bumping 6 times in during delivery	15.5		27.2	
Tank Farm Pump 1	17.4	17.4	17.4	
Tank Farm Pump 2	17.2	17.2	17.2	
Tank Farm Pump 3	17.2	17.2	17.2	
UP Train Locomotive Delivery and Pickup	11.0		22.7	
XF-1502 Splitter Area 1	14.9	14.9	14.9	
XF-1502 Splitter Area 2	14.9	14.9	14.9	
XF-1504 Splitter Area 1	15.0	15.0	15.0	
XF-1504 Splitter Area 2	14.9	14.9	14.9	
XF - 1601	12.2	12.2	12.2	
XF - 1602	12.3	12.3	12.3	
XF 304, XF 321	24.7	24.7	24.7	
XF 313, XF 314	24.5	24.5	24.5	
XF 335-1, XF 335-2	26.4	26.4	26.4	
XF 503	21.6	21.6	21.6	
XF Module 1510	18.5	18.5	18.5	
XF Module 1519	19.3	19.3	19.3	
Receiver E-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 65.9 dB(A)	Ld 7-19 dB(A)	Leq,N 51.8 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	25.4			
Air Compressor C 1	34.3	34.3	34.3	
Air Compressor Pump	16.8	16.8	16.8	
Blower F 401	32.5	32.5	32.5	
Boiler Crude Unit-Heater Opening	20.5	20.5	20.5	
Compressor House C301, C302, C 124-Comp House East 1	22.2	22.2	22.2	
Compressor House C301, C302, C 124-Comp House East 2	18.3	18.3	18.3	
Compressor House C301, C302, C 124-Comp House North	28.2	28.2	28.2	
Compressor House C301, C302, C 124-Comp House South 1	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House South 2	16.4	16.4	16.4	
Compressor House C301, C302, C 124-Comp House West	5.3	5.3	5.3	
Construciton Control Room Max Evening Night	32.3	39.2		

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construciton Control Room Max Day	49.0		49.9	
Construction / Renewable Fuels Truck Tr	48.6	37.1	49.2	
Construction Demolition Warehouse Max Day	58.4		59.3	
Construction Demoltion Loading Racks Max Day	63.4		64.4	
Construction H2 Plant Max Day	41.3		42.2	
Construction H2 Plant Max Evening Night	24.5	31.5		
Construction PreTreat Building Max Day	57.8		58.8	
Construction PreTreat Building Max Evening Night	41.1	48.1		
Construction Unit A Construction Max Day	36.5		37.4	
Construction Unit B 2 Max Evening Night	33.9	40.9		
Construction Unit B Max Day	50.7		51.6	
Cooling Tower CT 510-CT 510 East Side	14.2	14.2	14.2	
Cooling Tower CT 510-CT 510 West Side	4.8	4.8	4.8	
Cooling Tower CT 511-CT 511 East Side	20.7	20.7	20.7	
Cooling Tower CT 511-CT 511 West Side	13.2	13.2	13.2	
Cooling Tower M 512	8.9	8.9	8.9	
Cooling Tower M 513	9.1	9.1	9.1	
Cooling Tower M 514	8.8	8.8	8.8	
Crude Operatoin Truck Truck Traffic	46.7	46.7	46.7	
Heater # 5-Heater	13.4	13.4	13.4	
Heater # 5-Heater	14.6	14.6	14.6	
Heater # 5-Heater	13.0	13.0	13.0	
Hydro Heater H-402	13.1	13.1	13.1	
Motor & Pump P - 1502 Splitter Reflux Pu	13.0	13.0	13.0	
Motor & Pump P - 1503 Splitter Bottoms P	13.0	13.0	13.0	
Motor & Pump P - 1504 Splitter Bottoms P	12.4	12.4	12.4	
Motor & Pump P - 1507 Reactor Pump	7.4	7.4	7.4	
Motor & Pump P - 1508 Reactor Pump	12.8	12.8	12.8	
Motor & Pump P - 1511 Stabilizer Reflux	12.2	12.2	12.2	
Motor & Pump P - 1512 Stabilizer Reflux	12.2	12.2	12.2	
Motor & Pump P - 1513 Caustic Circulatin	12.0	12.0	12.0	
Motor & Pump P - 1514 Caustic Circulatin	12.1	12.1	12.1	
Motor & Pump P 120/121	10.6	10.6	10.6	
Motor & Pump P 1505 FRESH FEED PUMPS	12.3	12.3	12.3	
Motor & Pump P 1506 FRESH FEED PUMPS	12.3	12.3	12.3	
Motor & Pump P 1509 Chloride Injection P	7.4	7.4	7.4	
Motor & Pump P 1510 Chloride Injection P	7.5	7.5	7.5	
Motor & Pump P 1601 A	13.1	13.1	13.1	
Motor & Pump P 1601 B	13.1	13.1	13.1	
Motor & Pump P 1602 A	13.1	13.1	13.1	
Motor & Pump P 1602 B	13.3	13.3	13.3	
Motor & Pump P 211/212	9.0	9.0	9.0	
Motor & Pump P 215/214	8.5	8.5	8.5	
Motor & Pump P 216	12.9	12.9	12.9	
Motor & Pump P 217/218	8.0	8.0	8.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 300	11.5	11.5	11.5	
Motor & Pump P 301	16.5	16.5	16.5	
Motor & Pump P 302	11.5	11.5	11.5	
Motor & Pump P 303	11.5	11.5	11.5	
Motor & Pump P 305	11.1	11.1	11.1	
Motor & Pump P 306	27.5	27.5	27.5	
Motor & Pump P 307	18.4	18.4	18.4	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	17.3	17.3	17.3	
Motor & Pump P 313	18.0	18.0	18.0	
Motor & Pump P 315	19.9	19.9	19.9	
Motor & Pump P 316	19.9	19.9	19.9	
Motor & Pump P 317	14.9	14.9	14.9	
Motor & Pump P 318	16.8	16.8	16.8	
Motor & Pump P 319	16.7	16.7	16.7	
Motor & Pump P 327	24.0	24.0	24.0	
Motor & Pump P 328	23.9	23.9	23.9	
Motor & Pump P 329	23.6	23.6	23.6	
Motor & Pump P 451	9.8	9.8	9.8	
Motor & Pump P 453	9.7	9.7	9.7	
Motor & Pump P 454	9.8	9.8	9.8	
Motor & Pump P 457	9.7	9.7	9.7	
Motor & Pump P 458	9.8	9.8	9.8	
Motor & Pump P 459	9.9	9.9	9.9	
Motor & Pump P 56A/B	9.7	9.7	9.7	
Rail Cars Bumping 6 times in during delivery	25.8		37.5	
Tank Farm Pump 1	18.4	18.4	18.4	
Tank Farm Pump 2	19.1	19.1	19.1	
Tank Farm Pump 3	18.2	18.2	18.2	
UP Train Locomotive Delivery and Pickup	17.6		29.3	
XF-1502 Splitter Area 1	19.7	19.7	19.7	
XF-1502 Splitter Area 2	19.9	19.9	19.9	
XF-1504 Splitter Area 1	19.7	19.7	19.7	
XF-1504 Splitter Area 2	20.0	20.0	20.0	
XF - 1601	18.3	18.3	18.3	
XF - 1602	18.4	18.4	18.4	
XF 304, XF 321	29.2	29.2	29.2	
XF 313, XF 314	29.4	29.4	29.4	
XF 335-1, XF 335-2	32.4	32.4	32.4	
XF 503	27.1	27.1	27.1	
XF Module 1510	23.3	23.3	23.3	
XF Module 1519	24.1	24.1	24.1	
Receiver E-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 68.6 dB(A)		Ld 7-19 dB(A)	Leq,N 48.8 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	20.2			

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Air Compressor C 1	39.4	39.4	39.4	
Air Compressor Pump	16.2	16.2	16.2	
Blower F 401	32.4	32.4	32.4	
Boiler Crude Unit-Heater Opening	19.7	19.7	19.7	
Compressor House C301, C302, C 124-Comp House East 1	18.2	18.2	18.2	
Compressor House C301, C302, C 124-Comp House East 2	17.1	17.1	17.1	
Compressor House C301, C302, C 124-Comp House North	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House South 1	27.9	27.9	27.9	
Compressor House C301, C302, C 124-Comp House South 2	22.5	22.5	22.5	
Compressor House C301, C302, C 124-Comp House West	4.6	4.6	4.6	
Construciton Control Room Max Evening Night	29.5	36.5		
Construciton Control Room Max Day	46.3		47.2	
Construction / Renewable Fuels Truck Tr	47.7	37.6	48.3	
Construction Demolition Warehouse Max Day	65.2		66.2	
Construction Demoltion Loading Racks Max Day	65.7		66.7	
Construction H2 Plant Max Day	43.4		44.4	
Construction H2 Plant Max Evening Night	26.7	33.7		
Construction PreTreat Building Max Day	47.1		48.1	
Construction PreTreat Building Max Evening Night	30.4	37.4		
Construction Unit A Construction Max Day	41.4		42.4	
Construction Unit B 2 Max Evening Night	24.9	31.9		
Construction Unit B Max Day	41.7		42.6	
Cooling Tower CT 510-CT 510 East Side	12.4	12.4	12.4	
Cooling Tower CT 510-CT 510 West Side	4.3	4.3	4.3	
Cooling Tower CT 511-CT 511 East Side	20.2	20.2	20.2	
Cooling Tower CT 511-CT 511 West Side	10.6	10.6	10.6	
Cooling Tower M 512	13.0	13.0	13.0	
Cooling Tower M 513	13.0	13.0	13.0	
Cooling Tower M 514	13.0	13.0	13.0	
Crude Operatoin Truck Truck Traffic	45.3	45.3	45.3	
Heater # 5-Heater	14.1	14.1	14.1	
Heater # 5-Heater	14.5	14.5	14.5	
Heater # 5-Heater	13.6	13.6	13.6	
Hydro Heater H-402	12.4	12.4	12.4	
Motor & Pump P - 1502 Splitter Reflux Pu	12.1	12.1	12.1	
Motor & Pump P - 1503 Splitter Bottoms P	7.6	7.6	7.6	
Motor & Pump P - 1504 Splitter Bottoms P	14.1	14.1	14.1	
Motor & Pump P - 1507 Reactor Pump	12.1	12.1	12.1	
Motor & Pump P - 1508 Reactor Pump	12.1	12.1	12.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	14.1	14.1	14.1	
Motor & Pump P - 1512 Stabilizer Reflux	14.1	14.1	14.1	
Motor & Pump P - 1513 Caustic Circulatin	14.0	14.0	14.0	
Motor & Pump P - 1514 Caustic Circulatin	14.1	14.1	14.1	
Motor & Pump P 120/121	23.0	23.0	23.0	
Motor & Pump P 1505 FRESH FEED PUMPS	7.2	7.2	7.2	
Motor & Pump P 1506 FRESH FEED PUMPS	11.6	11.6	11.6	
Motor & Pump P 1509 Chloride Injection P	18.0	18.0	18.0	
Motor & Pump P 1510 Chloride Injection P	17.9	17.9	17.9	
Motor & Pump P 1601 A	12.2	12.2	12.2	
Motor & Pump P 1601 B	12.2	12.2	12.2	
Motor & Pump P 1602 A	12.2	12.2	12.2	
Motor & Pump P 1602 B	12.4	12.4	12.4	
Motor & Pump P 211/212	9.6	9.6	9.6	
Motor & Pump P 215/214	10.5	10.5	10.5	
Motor & Pump P 216	14.1	14.1	14.1	
Motor & Pump P 217/218	9.6	9.6	9.6	
Motor & Pump P 300	18.1	18.1	18.1	
Motor & Pump P 301	28.9	28.9	28.9	
Motor & Pump P 302	24.3	24.3	24.3	
Motor & Pump P 303	24.3	24.3	24.3	
Motor & Pump P 305	24.9	24.9	24.9	
Motor & Pump P 306	27.9	27.9	27.9	
Motor & Pump P 307	17.6	17.6	17.6	
Motor & Pump P 309	11.9	11.9	11.9	
Motor & Pump P 312	18.6	18.6	18.6	
Motor & Pump P 313	18.6	18.6	18.6	
Motor & Pump P 315	19.5	19.5	19.5	
Motor & Pump P 316	14.5	14.5	14.5	
Motor & Pump P 317	18.0	18.0	18.0	
Motor & Pump P 318	16.8	16.8	16.8	
Motor & Pump P 319	16.8	16.8	16.8	
Motor & Pump P 327	24.0	24.0	24.0	
Motor & Pump P 328	24.9	24.9	24.9	
Motor & Pump P 329	23.7	23.7	23.7	
Motor & Pump P 451	10.4	10.4	10.4	
Motor & Pump P 453	12.7	12.7	12.7	
Motor & Pump P 454	10.4	10.4	10.4	
Motor & Pump P 457	12.7	12.7	12.7	
Motor & Pump P 458	10.4	10.4	10.4	
Motor & Pump P 459	10.4	10.4	10.4	
Motor & Pump P 56A/B	7.8	7.8	7.8	
Rail Cars Bumping 6 times in during delivery	20.7		32.5	
Tank Farm Pump 1	18.2	18.2	18.2	
Tank Farm Pump 2	19.7	19.7	19.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Tank Farm Pump 3	21.2	21.2	21.2	
UP Train Locomotive Delivery and Pickup	17.6		29.4	
XF-1502 Splitter Area 1	20.3	20.3	20.3	
XF-1502 Splitter Area 2	12.6	12.6	12.6	
XF-1504 Splitter Area 1	20.3	20.3	20.3	
XF-1504 Splitter Area 2	12.4	12.4	12.4	
XF - 1601	17.6	17.6	17.6	
XF - 1602	17.7	17.7	17.7	
XF 304, XF 321	32.4	32.4	32.4	
XF 313, XF 314	31.0	31.0	31.0	
XF 335-1, XF 335-2	33.2	33.2	33.2	
XF 503	27.0	27.0	27.0	
XF Module 1510	22.6	22.6	22.6	
XF Module 1519	17.4	17.4	17.4	
Receiver E-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.5 dB(A) Ld 7-19 dB(A) Leq,N 47.3 dB(A) Le 19-2				
2011 Track Mobile switch moving rail cars 33 cars per day	19.2			
Air Compressor C 1	33.2	33.2	33.2	
Air Compressor Pump	16.7	16.7	16.7	
Blower F 401	31.1	31.1	31.1	
Boiler Crude Unit-Heater Opening	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House East 1	17.8	17.8	17.8	
Compressor House C301, C302, C 124-Comp House East 2	14.6	14.6	14.6	
Compressor House C301, C302, C 124-Comp House North	16.9	16.9	16.9	
Compressor House C301, C302, C 124-Comp House South 1	26.9	26.9	26.9	
Compressor House C301, C302, C 124-Comp House South 2	19.8	19.8	19.8	
Compressor House C301, C302, C 124-Comp House West	3.9	3.9	3.9	
Construciton Control Room Max Evening Night	27.3	34.3		
Construciton Control Room Max Day	44.1		45.0	
Construction / Renewable Fuels Truck Tr	50.6	41.3	51.2	
Construction Demolition Warehouse Max Day	66.0		67.0	
Construction Demoltion Loading Racks Max Day	61.4		62.4	
Construction H2 Plant Max Day	42.0		43.0	
Construction H2 Plant Max Evening Night	25.3	32.3		
Construction PreTreat Building Max Day	48.5		49.5	
Construction PreTreat Building Max Evening Night	31.8	38.8		
Construction Unit A Construction Max Day	35.5		36.5	
Construction Unit B 2 Max Evening Night	25.1	32.1		
Construction Unit B Max Day	41.8		42.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower CT 510-CT 510 East Side	12.1	12.1	12.1	
Cooling Tower CT 510-CT 510 West Side	3.6	3.6	3.6	
Cooling Tower CT 511-CT 511 East Side	19.8	19.8	19.8	
Cooling Tower CT 511-CT 511 West Side	9.5	9.5	9.5	
Cooling Tower M 512	10.1	10.1	10.1	
Cooling Tower M 513	10.1	10.1	10.1	
Cooling Tower M 514	10.2	10.2	10.2	
Crude Operatoin Truck Truck Traffic	42.4	42.4	42.4	
Heater # 5-Heater	14.6	14.6	14.6	
Heater # 5-Heater	15.0	15.0	15.0	
Heater # 5-Heater	13.6	13.6	13.6	
Hydro Heater H-402	11.7	11.7	11.7	
Motor & Pump P - 1502 Splitter Reflux Pu	12.6	12.6	12.6	
Motor & Pump P - 1503 Splitter Bottoms P	12.6	12.6	12.6	
Motor & Pump P - 1504 Splitter Bottoms P	7.4	7.4	7.4	
Motor & Pump P - 1507 Reactor Pump	12.5	12.5	12.5	
Motor & Pump P - 1508 Reactor Pump	12.5	12.5	12.5	
Motor & Pump P - 1511 Stabilizer Reflux	12.5	12.5	12.5	
Motor & Pump P - 1512 Stabilizer Reflux	12.5	12.5	12.5	
Motor & Pump P - 1513 Caustic Circulatin	12.3	12.3	12.3	
Motor & Pump P - 1514 Caustic Circulatin	12.4	12.4	12.4	
Motor & Pump P 120/121	11.9	11.9	11.9	
Motor & Pump P 1505 FRESH FEED PUMPS	7.0	7.0	7.0	
Motor & Pump P 1506 FRESH FEED PUMPS	7.0	7.0	7.0	
Motor & Pump P 1509 Chloride Injection P	12.6	12.6	12.6	
Motor & Pump P 1510 Chloride Injection P	6.7	6.7	6.7	
Motor & Pump P 1601 A	12.6	12.6	12.6	
Motor & Pump P 1601 B	12.6	12.6	12.6	
Motor & Pump P 1602 A	12.7	12.7	12.7	
Motor & Pump P 1602 B	12.9	12.9	12.9	
Motor & Pump P 211/212	5.3	5.3	5.3	
Motor & Pump P 215/214	7.2	7.2	7.2	
Motor & Pump P 216	9.8	9.8	9.8	
Motor & Pump P 217/218	6.3	6.3	6.3	
Motor & Pump P 300	12.9	12.9	12.9	
Motor & Pump P 301	17.8	17.8	17.8	
Motor & Pump P 302	12.8	12.8	12.8	
Motor & Pump P 303	12.8	12.8	12.8	
Motor & Pump P 305	13.2	13.2	13.2	
Motor & Pump P 306	26.9	26.9	26.9	
Motor & Pump P 307	14.1	14.1	14.1	
Motor & Pump P 309	10.5	10.5	10.5	
Motor & Pump P 312	18.3	18.3	18.3	
Motor & Pump P 313	18.3	18.3	18.3	
Motor & Pump P 315	17.7	17.7	17.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 316	18.0	18.0	18.0	
Motor & Pump P 317	17.1	17.1	17.1	
Motor & Pump P 318	17.0	17.0	17.0	
Motor & Pump P 319	11.7	11.7	11.7	
Motor & Pump P 327	23.3	23.3	23.3	
Motor & Pump P 328	22.4	22.4	22.4	
Motor & Pump P 329	22.6	22.6	22.6	
Motor & Pump P 451	7.2	7.2	7.2	
Motor & Pump P 453	5.4	5.4	5.4	
Motor & Pump P 454	7.1	7.1	7.1	
Motor & Pump P 457	5.3	5.3	5.3	
Motor & Pump P 458	7.2	7.2	7.2	
Motor & Pump P 459	7.1	7.1	7.1	
Motor & Pump P 56A/B	7.0	7.0	7.0	
Rail Cars Bumping 6 times in during delivery	19.6		31.4	
Tank Farm Pump 1	18.9	18.9	18.9	
Tank Farm Pump 2	20.0	20.0	20.0	
Tank Farm Pump 3	21.7	21.7	21.7	
UP Train Locomotive Delivery and Pickup	13.7		25.5	
XF-1502 Splitter Area 1	18.8	18.8	18.8	
XF-1502 Splitter Area 2	18.8	18.8	18.8	
XF-1504 Splitter Area 1	18.8	18.8	18.8	
XF-1504 Splitter Area 2	18.8	18.8	18.8	
XF - 1601	16.4	16.4	16.4	
XF - 1602	16.4	16.4	16.4	
XF 304, XF 321	27.1	27.1	27.1	
XF 313, XF 314	26.2	26.2	26.2	
XF 335-1, XF 335-2	28.6	28.6	28.6	
XF 503	24.7	24.7	24.7	
XF Module 1510	22.3	22.3	22.3	
XF Module 1519	23.0	23.0	23.0	
Receiver E-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 69.2 dB(A)	Ld 7-19 dB(A)	Leq,N 54.0 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	25.8			
Air Compressor C 1	32.0	32.0	32.0	
Air Compressor Pump	14.3	14.3	14.3	
Blower F 401	32.1	32.1	32.1	
Boiler Crude Unit-Heater Opening	27.2	27.2	27.2	
Compressor House C301, C302, C 124-Comp House East 1	19.5	19.5	19.5	
Compressor House C301, C302, C 124-Comp House East 2	17.4	17.4	17.4	
Compressor House C301, C302, C 124-Comp House North	15.3	15.3	15.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	29.7	29.7	29.7	
Compressor House C301, C302, C 124-Comp House South 2	25.1	25.1	25.1	
Compressor House C301, C302, C 124-Comp House West	5.5	5.5	5.5	
Construciton Control Room Max Evening Night	25.8	32.8		
Construciton Control Room Max Day	42.5		43.5	
Construction / Renewable Fuels Truck Tr	62.5	53.4	63.1	
Construction Demolition Warehouse Max Day	67.8		68.8	
Construction Demoltion Loading Racks Max Day	56.1		57.0	
Construction H2 Plant Max Day	42.1		43.0	
Construction H2 Plant Max Evening Night	25.3	32.3		
Construction PreTreat Building Max Day	48.4		49.4	
Construction PreTreat Building Max Evening Night	31.7	38.7		
Construction Unit A Construction Max Day	35.5		36.5	
Construction Unit B 2 Max Evening Night	32.2	39.2		
Construction Unit B Max Day	48.9		49.9	
Cooling Tower CT 510-CT 510 East Side	14.2	14.2	14.2	
Cooling Tower CT 510-CT 510 West Side	5.3	5.3	5.3	
Cooling Tower CT 511-CT 511 East Side	20.0	20.0	20.0	
Cooling Tower CT 511-CT 511 West Side	9.8	9.8	9.8	
Cooling Tower M 512	12.1	12.1	12.1	
Cooling Tower M 513	12.1	12.1	12.1	
Cooling Tower M 514	12.1	12.1	12.1	
Crude Operatoin Truck Truck Traffic	35.8	35.8	35.8	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	18.6	18.6	18.6	
Heater # 5-Heater	17.1	17.1	17.1	
Hydro Heater H-402	15.4	15.4	15.4	
Motor & Pump P - 1502 Splitter Reflux Pu	9.1	9.1	9.1	
Motor & Pump P - 1503 Splitter Bottoms P	11.6	11.6	11.6	
Motor & Pump P - 1504 Splitter Bottoms P	11.6	11.6	11.6	
Motor & Pump P - 1507 Reactor Pump	9.3	9.3	9.3	
Motor & Pump P - 1508 Reactor Pump	11.5	11.5	11.5	
Motor & Pump P - 1511 Stabilizer Reflux	11.5	11.5	11.5	
Motor & Pump P - 1512 Stabilizer Reflux	11.4	11.4	11.4	
Motor & Pump P - 1513 Caustic Circulatin	10.9	10.9	10.9	
Motor & Pump P - 1514 Caustic Circulatin	11.3	11.3	11.3	
Motor & Pump P 120/121	9.6	9.6	9.6	
Motor & Pump P 1505 FRESH FEED PUMPS	11.7	11.7	11.7	
Motor & Pump P 1506 FRESH FEED PUMPS	11.1	11.1	11.1	
Motor & Pump P 1509 Chloride Injection P	9.1	9.1	9.1	
Motor & Pump P 1510 Chloride Injection P	7.3	7.3	7.3	
Motor & Pump P 1601 A	11.7	11.7	11.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1601 B	11.7	11.7	11.7	
Motor & Pump P 1602 A	11.7	11.7	11.7	
Motor & Pump P 1602 B	11.9	11.9	11.9	
Motor & Pump P 211/212	7.1	7.1	7.1	
Motor & Pump P 215/214	9.9	9.9	9.9	
Motor & Pump P 216	11.0	11.0	11.0	
Motor & Pump P 217/218	9.1	9.1	9.1	
Motor & Pump P 300	12.6	12.6	12.6	
Motor & Pump P 301	17.6	17.6	17.6	
Motor & Pump P 302	10.6	10.6	10.6	
Motor & Pump P 303	12.5	12.5	12.5	
Motor & Pump P 305	12.9	12.9	12.9	
Motor & Pump P 306	26.2	26.2	26.2	
Motor & Pump P 307	14.1	14.1	14.1	
Motor & Pump P 309	11.7	11.7	11.7	
Motor & Pump P 312	16.5	16.5	16.5	
Motor & Pump P 313	16.4	16.4	16.4	
Motor & Pump P 315	17.9	17.9	17.9	
Motor & Pump P 316	17.6	17.6	17.6	
Motor & Pump P 317	17.8	17.8	17.8	
Motor & Pump P 318	15.3	15.3	15.3	
Motor & Pump P 319	15.3	15.3	15.3	
Motor & Pump P 327	24.9	24.9	24.9	
Motor & Pump P 328	22.7	22.7	22.7	
Motor & Pump P 329	22.5	22.5	22.5	
Motor & Pump P 451	9.7	9.7	9.7	
Motor & Pump P 453	6.7	6.7	6.7	
Motor & Pump P 454	9.7	9.7	9.7	
Motor & Pump P 457	6.9	6.9	6.9	
Motor & Pump P 458	9.7	9.7	9.7	
Motor & Pump P 459	9.6	9.6	9.6	
Motor & Pump P 56A/B	8.2	8.2	8.2	
Rail Cars Bumping 6 times in during delivery	26.1		37.9	
Tank Farm Pump 1	25.9	25.9	25.9	
Tank Farm Pump 2	20.3	20.3	20.3	
Tank Farm Pump 3	20.4	20.4	20.4	
UP Train Locomotive Delivery and Pickup	18.7		30.5	
XF-1502 Splitter Area 1	14.0	14.0	14.0	
XF-1502 Splitter Area 2	17.8	17.8	17.8	
XF-1504 Splitter Area 1	13.8	13.8	13.8	
XF-1504 Splitter Area 2	17.8	17.8	17.8	
XF - 1601	15.5	15.5	15.5	
XF - 1602	15.5	15.5	15.5	
XF 304, XF 321	26.7	26.7	26.7	
XF 313, XF 314	33.5	33.5	33.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 335-1, XF 335-2	28.3	28.3	28.3	
XF 503	25.9	25.9	25.9	
XF Module 1510	17.3	17.3	17.3	
XF Module 1519	22.0	22.0	22.0	
Receiver E-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 68.7 dB(A)	Ld 7-19 dB(A)	Leq,N 54.4 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	25.7			
Air Compressor C 1	31.6	31.6	31.6	
Air Compressor Pump	14.2	14.2	14.2	
Blower F 401	31.4	31.4	31.4	
Boiler Crude Unit-Heater Opening	24.3	24.3	24.3	
Compressor House C301, C302, C 124-Comp House East 1	18.9	18.9	18.9	
Compressor House C301, C302, C 124-Comp House East 2	17.5	17.5	17.5	
Compressor House C301, C302, C 124-Comp House North	15.2	15.2	15.2	
Compressor House C301, C302, C 124-Comp House South 1	28.9	28.9	28.9	
Compressor House C301, C302, C 124-Comp House South 2	24.5	24.5	24.5	
Compressor House C301, C302, C 124-Comp House West	5.7	5.7	5.7	
Construciton Control Room Max Evening Night	25.6	32.6		
Construciton Control Room Max Day	42.3		43.3	
Construction / Renewable Fuels Truck Tr	63.0	53.9	63.6	
Construction Demolition Warehouse Max Day	67.2		68.1	
Construction Demoltion Loading Racks Max Day	46.2		47.2	
Construction H2 Plant Max Day	40.1		41.1	
Construction H2 Plant Max Evening Night	23.4	30.4		
Construction PreTreat Building Max Day	47.6		48.5	
Construction PreTreat Building Max Evening Night	30.8	37.8		
Construction Unit A Construction Max Day	35.2		36.2	
Construction Unit B 2 Max Evening Night	32.5	39.5		
Construction Unit B Max Day	49.3		50.2	
Cooling Tower CT 510-CT 510 East Side	15.0	15.0	15.0	
Cooling Tower CT 510-CT 510 West Side	5.9	5.9	5.9	
Cooling Tower CT 511-CT 511 East Side	19.3	19.3	19.3	
Cooling Tower CT 511-CT 511 West Side	10.1	10.1	10.1	
Cooling Tower M 512	11.9	11.9	11.9	
Cooling Tower M 513	11.9	11.9	11.9	
Cooling Tower M 514	11.9	11.9	11.9	
Crude Operatoin Truck Truck Traffic	31.4	31.4	31.4	
Heater # 5-Heater	18.1	18.1	18.1	
Heater # 5-Heater	18.3	18.3	18.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Heater # 5-Heater	16.5	16.5	16.5	
Hydro Heater H-402	16.8	16.8	16.8	
Motor & Pump P - 1502 Splitter Reflux Pu	10.1	10.1	10.1	
Motor & Pump P - 1503 Splitter Bottoms P	11.1	11.1	11.1	
Motor & Pump P - 1504 Splitter Bottoms P	11.0	11.0	11.0	
Motor & Pump P - 1507 Reactor Pump	10.3	10.3	10.3	
Motor & Pump P - 1508 Reactor Pump	11.0	11.0	11.0	
Motor & Pump P - 1511 Stabilizer Reflux	11.3	11.3	11.3	
Motor & Pump P - 1512 Stabilizer Reflux	11.2	11.2	11.2	
Motor & Pump P - 1513 Caustic Circulatin	10.4	10.4	10.4	
Motor & Pump P - 1514 Caustic Circulatin	10.9	10.9	10.9	
Motor & Pump P 120/121	10.7	10.7	10.7	
Motor & Pump P 1505 FRESH FEED PUMPS	10.7	10.7	10.7	
Motor & Pump P 1506 FRESH FEED PUMPS	9.9	9.9	9.9	
Motor & Pump P 1509 Chloride Injection P	9.3	9.3	9.3	
Motor & Pump P 1510 Chloride Injection P	8.3	8.3	8.3	
Motor & Pump P 1601 A	11.2	11.2	11.2	
Motor & Pump P 1601 B	11.2	11.2	11.2	
Motor & Pump P 1602 A	11.2	11.2	11.2	
Motor & Pump P 1602 B	11.4	11.4	11.4	
Motor & Pump P 211/212	6.6	6.6	6.6	
Motor & Pump P 215/214	9.5	9.5	9.5	
Motor & Pump P 216	11.4	11.4	11.4	
Motor & Pump P 217/218	7.9	7.9	7.9	
Motor & Pump P 300	11.9	11.9	11.9	
Motor & Pump P 301	16.3	16.3	16.3	
Motor & Pump P 302	11.6	11.6	11.6	
Motor & Pump P 303	11.2	11.2	11.2	
Motor & Pump P 305	11.8	11.8	11.8	
Motor & Pump P 306	26.3	26.3	26.3	
Motor & Pump P 307	14.9	14.9	14.9	
Motor & Pump P 309	12.1	12.1	12.1	
Motor & Pump P 312	16.3	16.3	16.3	
Motor & Pump P 313	16.4	16.4	16.4	
Motor & Pump P 315	18.1	18.1	18.1	
Motor & Pump P 316	18.1	18.1	18.1	
Motor & Pump P 317	18.1	18.1	18.1	
Motor & Pump P 318	15.2	15.2	15.2	
Motor & Pump P 319	15.3	15.3	15.3	
Motor & Pump P 327	24.8	24.8	24.8	
Motor & Pump P 328	23.6	23.6	23.6	
Motor & Pump P 329	23.6	23.6	23.6	
Motor & Pump P 451	9.6	9.6	9.6	
Motor & Pump P 453	7.2	7.2	7.2	
Motor & Pump P 454	9.6	9.6	9.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 457	7.4	7.4	7.4	
Motor & Pump P 458	9.6	9.6	9.6	
Motor & Pump P 459	9.8	9.8	9.8	
Motor & Pump P 56A/B	8.7	8.7	8.7	
Rail Cars Bumping 6 times in during delivery	26.0		37.7	
Tank Farm Pump 1	26.1	26.1	26.1	
Tank Farm Pump 2	25.7	25.7	25.7	
Tank Farm Pump 3	25.8	25.8	25.8	
UP Train Locomotive Delivery and Pickup	18.6		30.3	
XF-1502 Splitter Area 1	16.3	16.3	16.3	
XF-1502 Splitter Area 2	16.4	16.4	16.4	
XF-1504 Splitter Area 1	14.4	14.4	14.4	
XF-1504 Splitter Area 2	16.5	16.5	16.5	
XF - 1601	13.8	13.8	13.8	
XF - 1602	13.8	13.8	13.8	
XF 304, XF 321	25.7	25.7	25.7	
XF 313, XF 314	25.4	25.4	25.4	
XF 335-1, XF 335-2	27.2	27.2	27.2	
XF 503	25.4	25.4	25.4	
XF Module 1510	18.2	18.2	18.2	
XF Module 1519	20.8	20.8	20.8	
Receiver S-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 65.3 dB(A)		Ld 7-19 dB(A)	Leq,N 51.0 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	22.5			
Air Compressor C 1	38.4	38.4	38.4	
Air Compressor Pump	13.8	13.8	13.8	
Blower F 401	32.2	32.2	32.2	
Boiler Crude Unit-Heater Opening	18.9	18.9	18.9	
Compressor House C301, C302, C 124-Comp House East 1	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House East 2	23.7	23.7	23.7	
Compressor House C301, C302, C 124-Comp House North	15.2	15.2	15.2	
Compressor House C301, C302, C 124-Comp House South 1	29.5	29.5	29.5	
Compressor House C301, C302, C 124-Comp House South 2	30.3	30.3	30.3	
Compressor House C301, C302, C 124-Comp House West	5.2	5.2	5.2	
Construciton Control Room Max Evening Night	27.3	34.3		
Construciton Control Room Max Day	44.0		45.0	
Construction / Renewable Fuels Truck Tr	58.6	49.3	59.2	
Construction Demolition Warehouse Max Day	63.3		64.3	
Construction Demoltion Loading Racks Max Day	55.7		56.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction H2 Plant Max Day	44.6		45.6	
Construction H2 Plant Max Evening Night	27.9	34.9		
Construction PreTreat Building Max Day	44.8		45.7	
Construction PreTreat Building Max Evening Night	28.1	35.0		
Construction Unit A Construction Max Day	39.4		40.4	
Construction Unit B 2 Max Evening Night	28.5	35.4		
Construction Unit B Max Day	45.2		46.1	
Cooling Tower CT 510-CT 510 East Side	17.6	17.6	17.6	
Cooling Tower CT 510-CT 510 West Side	4.9	4.9	4.9	
Cooling Tower CT 511-CT 511 East Side	26.5	26.5	26.5	
Cooling Tower CT 511-CT 511 West Side	12.0	12.0	12.0	
Cooling Tower M 512	17.7	17.7	17.7	
Cooling Tower M 513	20.2	20.2	20.2	
Cooling Tower M 514	17.7	17.7	17.7	
Crude Operatoin Truck Truck Traffic	35.4	35.4	35.4	
Heater # 5-Heater	16.9	16.9	16.9	
Heater # 5-Heater	17.0	17.0	17.0	
Heater # 5-Heater	17.1	17.1	17.1	
Hydro Heater H-402	12.9	12.9	12.9	
Motor & Pump P - 1502 Splitter Reflux Pu	7.5	7.5	7.5	
Motor & Pump P - 1503 Splitter Bottoms P	17.4	17.4	17.4	
Motor & Pump P - 1504 Splitter Bottoms P	17.4	17.4	17.4	
Motor & Pump P - 1507 Reactor Pump	12.1	12.1	12.1	
Motor & Pump P - 1508 Reactor Pump	7.6	7.6	7.6	
Motor & Pump P - 1511 Stabilizer Reflux	12.7	12.7	12.7	
Motor & Pump P - 1512 Stabilizer Reflux	7.3	7.3	7.3	
Motor & Pump P - 1513 Caustic Circulatin	17.1	17.1	17.1	
Motor & Pump P - 1514 Caustic Circulatin	15.3	15.3	15.3	
Motor & Pump P 120/121	9.3	9.3	9.3	
Motor & Pump P 1505 FRESH FEED PUMPS	10.0	10.0	10.0	
Motor & Pump P 1506 FRESH FEED PUMPS	11.3	11.3	11.3	
Motor & Pump P 1509 Chloride Injection P	16.1	16.1	16.1	
Motor & Pump P 1510 Chloride Injection P	7.0	7.0	7.0	
Motor & Pump P 1601 A	17.3	17.3	17.3	
Motor & Pump P 1601 B	17.3	17.3	17.3	
Motor & Pump P 1602 A	17.3	17.3	17.3	
Motor & Pump P 1602 B	17.5	17.5	17.5	
Motor & Pump P 211/212	5.7	5.7	5.7	
Motor & Pump P 215/214	8.6	8.6	8.6	
Motor & Pump P 216	12.6	12.6	12.6	
Motor & Pump P 217/218	5.5	5.5	5.5	
Motor & Pump P 300	10.6	10.6	10.6	
Motor & Pump P 301	15.1	15.1	15.1	
Motor & Pump P 302	13.8	13.8	13.8	
Motor & Pump P 303	20.4	20.4	20.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 305	10.5	10.5	10.5	
Motor & Pump P 306	25.8	25.8	25.8	
Motor & Pump P 307	14.8	14.8	14.8	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	18.8	18.8	18.8	
Motor & Pump P 313	18.8	18.8	18.8	
Motor & Pump P 315	18.4	18.4	18.4	
Motor & Pump P 316	17.3	17.3	17.3	
Motor & Pump P 317	15.9	15.9	15.9	
Motor & Pump P 318	15.9	15.9	15.9	
Motor & Pump P 319	17.5	17.5	17.5	
Motor & Pump P 327	26.2	26.2	26.2	
Motor & Pump P 328	22.0	22.0	22.0	
Motor & Pump P 329	21.5	21.5	21.5	
Motor & Pump P 451	12.2	12.2	12.2	
Motor & Pump P 453	6.6	6.6	6.6	
Motor & Pump P 454	8.5	8.5	8.5	
Motor & Pump P 457	6.7	6.7	6.7	
Motor & Pump P 458	12.2	12.2	12.2	
Motor & Pump P 459	8.5	8.5	8.5	
Motor & Pump P 56A/B	8.2	8.2	8.2	
Rail Cars Bumping 6 times in during delivery	23.2		34.9	
Tank Farm Pump 1	19.9	19.9	19.9	
Tank Farm Pump 2	19.2	19.2	19.2	
Tank Farm Pump 3	19.3	19.3	19.3	
UP Train Locomotive Delivery and Pickup	18.7		30.5	
XF-1502 Splitter Area 1	24.6	24.6	24.6	
XF-1502 Splitter Area 2	24.6	24.6	24.6	
XF-1504 Splitter Area 1	24.6	24.6	24.6	
XF-1504 Splitter Area 2	24.6	24.6	24.6	
XF - 1601	22.6	22.6	22.6	
XF - 1602	22.6	22.6	22.6	
XF 304, XF 321	30.3	30.3	30.3	
XF 313, XF 314	34.2	34.2	34.2	
XF 335-1, XF 335-2	32.6	32.6	32.6	
XF 503	34.8	34.8	34.8	
XF Module 1510	20.0	20.0	20.0	
XF Module 1519	28.8	28.8	28.8	
Receiver S-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 62.2 dB(A)	Ld 7-19 dB(A)	Leq,N 47.4 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	21.5			
Air Compressor C 1	31.6	31.6	31.6	
Air Compressor Pump	14.3	14.3	14.3	
Blower F 401	31.0	31.0	31.0	
Boiler Crude Unit-Heater Opening	20.7	20.7	20.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House East 1	20.3	20.3	20.3	
Compressor House C301, C302, C 124-Comp House East 2	15.5	15.5	15.5	
Compressor House C301, C302, C 124-Comp House North	13.3	13.3	13.3	
Compressor House C301, C302, C 124-Comp House South 1	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House South 2	24.1	24.1	24.1	
Compressor House C301, C302, C 124-Comp House West	5.1	5.1	5.1	
Construciton Control Room Max Evening Night	24.1	31.1		
Construciton Control Room Max Day	40.8		41.8	
Construction / Renewable Fuels Truck Tr	53.9	44.4	54.5	
Construction Demolition Warehouse Max Day	60.6		61.6	
Construction Demoltion Loading Racks Max Day	50.1		51.1	
Construction H2 Plant Max Day	39.4		40.4	
Construction H2 Plant Max Evening Night	22.7	29.7		
Construction PreTreat Building Max Day	49.9		50.9	
Construction PreTreat Building Max Evening Night	33.2	40.2		
Construction Unit A Construction Max Day	34.2		35.1	
Construction Unit B 2 Max Evening Night	26.7	33.6		
Construction Unit B Max Day	43.4		44.3	
Cooling Tower CT 510-CT 510 East Side	15.7	15.7	15.7	
Cooling Tower CT 510-CT 510 West Side	4.9	4.9	4.9	
Cooling Tower CT 511-CT 511 East Side	21.7	21.7	21.7	
Cooling Tower CT 511-CT 511 West Side	12.8	12.8	12.8	
Cooling Tower M 512	13.8	13.8	13.8	
Cooling Tower M 513	13.8	13.8	13.8	
Cooling Tower M 514	11.5	11.5	11.5	
Crude Operatoin Truck Truck Traffic	33.9	33.9	33.9	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	18.7	18.7	18.7	
Heater # 5-Heater	18.7	18.7	18.7	
Hydro Heater H-402	13.0	13.0	13.0	
Motor & Pump P - 1502 Splitter Reflux Pu	8.7	8.7	8.7	
Motor & Pump P - 1503 Splitter Bottoms P	9.5	9.5	9.5	
Motor & Pump P - 1504 Splitter Bottoms P	9.8	9.8	9.8	
Motor & Pump P - 1507 Reactor Pump	10.9	10.9	10.9	
Motor & Pump P - 1508 Reactor Pump	10.0	10.0	10.0	
Motor & Pump P - 1511 Stabilizer Reflux	8.5	8.5	8.5	
Motor & Pump P - 1512 Stabilizer Reflux	10.5	10.5	10.5	
Motor & Pump P - 1513 Caustic Circulatin	11.2	11.2	11.2	
Motor & Pump P - 1514 Caustic Circulatin	11.2	11.2	11.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 120/121	10.5	10.5	10.5	
Motor & Pump P 1505 FRESH FEED PUMPS	10.2	10.2	10.2	
Motor & Pump P 1506 FRESH FEED PUMPS	10.4	10.4	10.4	
Motor & Pump P 1509 Chloride Injection P	10.1	10.1	10.1	
Motor & Pump P 1510 Chloride Injection P	10.1	10.1	10.1	
Motor & Pump P 1601 A	11.5	11.5	11.5	
Motor & Pump P 1601 B	11.6	11.6	11.6	
Motor & Pump P 1602 A	11.6	11.6	11.6	
Motor & Pump P 1602 B	11.8	11.8	11.8	
Motor & Pump P 211/212	6.1	6.1	6.1	
Motor & Pump P 215/214	7.0	7.0	7.0	
Motor & Pump P 216	10.6	10.6	10.6	
Motor & Pump P 217/218	5.5	5.5	5.5	
Motor & Pump P 300	9.4	9.4	9.4	
Motor & Pump P 301	14.3	14.3	14.3	
Motor & Pump P 302	9.5	9.5	9.5	
Motor & Pump P 303	10.0	10.0	10.0	
Motor & Pump P 305	10.5	10.5	10.5	
Motor & Pump P 306	24.5	24.5	24.5	
Motor & Pump P 307	15.1	15.1	15.1	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	15.3	15.3	15.3	
Motor & Pump P 313	17.4	17.4	17.4	
Motor & Pump P 315	15.8	15.8	15.8	
Motor & Pump P 316	15.8	15.8	15.8	
Motor & Pump P 317	16.5	16.5	16.5	
Motor & Pump P 318	13.7	13.7	13.7	
Motor & Pump P 319	13.7	13.7	13.7	
Motor & Pump P 327	26.3	26.3	26.3	
Motor & Pump P 328	23.4	23.4	23.4	
Motor & Pump P 329	22.3	22.3	22.3	
Motor & Pump P 451	6.6	6.6	6.6	
Motor & Pump P 453	6.7	6.7	6.7	
Motor & Pump P 454	6.6	6.6	6.6	
Motor & Pump P 457	6.8	6.8	6.8	
Motor & Pump P 458	6.6	6.6	6.6	
Motor & Pump P 459	6.6	6.6	6.6	
Motor & Pump P 56A/B	8.5	8.5	8.5	
Rail Cars Bumping 6 times in during delivery	22.1		33.8	
Tank Farm Pump 1	19.3	19.3	19.3	
Tank Farm Pump 2	18.6	18.6	18.6	
Tank Farm Pump 3	19.9	19.9	19.9	
UP Train Locomotive Delivery and Pickup	15.9		27.6	
XF-1502 Splitter Area 1	18.9	18.9	18.9	
XF-1502 Splitter Area 2	19.0	19.0	19.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF-1504 Splitter Area 1	18.9	18.9	18.9	
XF-1504 Splitter Area 2	19.0	19.0	19.0	
XF - 1601	16.4	16.4	16.4	
XF - 1602	16.4	16.4	16.4	
XF 304, XF 321	27.6	27.6	27.6	
XF 313, XF 314	28.3	28.3	28.3	
XF 335-1, XF 335-2	29.1	29.1	29.1	
XF 503	25.3	25.3	25.3	
XF Module 1510	22.9	22.9	22.9	
XF Module 1519	23.4	23.4	23.4	
Receiver S-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 58.7 dB(A)	Ld 7-19 dB(A)	Leq,N 44.6 dB(A)	Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	24.5			
Air Compressor C 1	32.5	32.5	32.5	
Air Compressor Pump	15.3	15.3	15.3	
Blower F 401	30.9	30.9	30.9	
Boiler Crude Unit-Heater Opening	23.7	23.7	23.7	
Compressor House C301, C302, C 124-Comp House East 1	20.7	20.7	20.7	
Compressor House C301, C302, C 124-Comp House East 2	15.2	15.2	15.2	
Compressor House C301, C302, C 124-Comp House North	13.3	13.3	13.3	
Compressor House C301, C302, C 124-Comp House South 1	27.8	27.8	27.8	
Compressor House C301, C302, C 124-Comp House South 2	23.9	23.9	23.9	
Compressor House C301, C302, C 124-Comp House West	5.3	5.3	5.3	
Construciton Control Room Max Evening Night	26.9	33.9		
Construciton Control Room Max Day	43.6		44.6	
Construction / Renewable Fuels Truck Tr	48.1	39.1	48.8	
Construction Demolition Warehouse Max Day	57.2		58.2	
Construction Demoltion Loading Racks Max Day	45.4		46.3	
Construction H2 Plant Max Day	40.0		41.0	
Construction H2 Plant Max Evening Night	23.3	30.3		
Construction PreTreat Building Max Day	43.6		44.5	
Construction PreTreat Building Max Evening Night	26.8	33.8		
Construction Unit A Construction Max Day	34.5		35.5	
Construction Unit B 2 Max Evening Night	29.3	36.3		
Construction Unit B Max Day	46.0		47.0	
Cooling Tower CT 510-CT 510 East Side	15.7	15.7	15.7	
Cooling Tower CT 510-CT 510 West Side	5.0	5.0	5.0	
Cooling Tower CT 511-CT 511 East Side	20.5	20.5	20.5	
Cooling Tower CT 511-CT 511 West Side	12.8	12.8	12.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower M 512	13.6	13.6	13.6	
Cooling Tower M 513	13.5	13.5	13.5	
Cooling Tower M 514	11.2	11.2	11.2	
Crude Operatoin Truck Truck Traffic	31.7	31.7	31.7	
Heater # 5-Heater	20.4	20.4	20.4	
Heater # 5-Heater	20.6	20.6	20.6	
Heater # 5-Heater	21.6	21.6	21.6	
Hydro Heater H-402	15.4	15.4	15.4	
Motor & Pump P - 1502 Splitter Reflux Pu	10.0	10.0	10.0	
Motor & Pump P - 1503 Splitter Bottoms P	10.0	10.0	10.0	
Motor & Pump P - 1504 Splitter Bottoms P	10.0	10.0	10.0	
Motor & Pump P - 1507 Reactor Pump	12.0	12.0	12.0	
Motor & Pump P - 1508 Reactor Pump	11.3	11.3	11.3	
Motor & Pump P - 1511 Stabilizer Reflux	10.2	10.2	10.2	
Motor & Pump P - 1512 Stabilizer Reflux	11.2	11.2	11.2	
Motor & Pump P - 1513 Caustic Circulatin	10.8	10.8	10.8	
Motor & Pump P - 1514 Caustic Circulatin	10.9	10.9	10.9	
Motor & Pump P 120/121	11.3	11.3	11.3	
Motor & Pump P 1505 FRESH FEED PUMPS	9.7	9.7	9.7	
Motor & Pump P 1506 FRESH FEED PUMPS	12.0	12.0	12.0	
Motor & Pump P 1509 Chloride Injection P	9.6	9.6	9.6	
Motor & Pump P 1510 Chloride Injection P	9.6	9.6	9.6	
Motor & Pump P 1601 A	11.2	11.2	11.2	
Motor & Pump P 1601 B	11.3	11.3	11.3	
Motor & Pump P 1602 A	11.3	11.3	11.3	
Motor & Pump P 1602 B	11.5	11.5	11.5	
Motor & Pump P 211/212	7.5	7.5	7.5	
Motor & Pump P 215/214	7.0	7.0	7.0	
Motor & Pump P 216	11.9	11.9	11.9	
Motor & Pump P 217/218	6.5	6.5	6.5	
Motor & Pump P 300	10.2	10.2	10.2	
Motor & Pump P 301	14.9	14.9	14.9	
Motor & Pump P 302	12.6	12.6	12.6	
Motor & Pump P 303	9.9	9.9	9.9	
Motor & Pump P 305	10.6	10.6	10.6	
Motor & Pump P 306	25.4	25.4	25.4	
Motor & Pump P 307	15.5	15.5	15.5	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	16.7	16.7	16.7	
Motor & Pump P 313	16.7	16.7	16.7	
Motor & Pump P 315	16.6	16.6	16.6	
Motor & Pump P 316	16.5	16.5	16.5	
Motor & Pump P 317	17.3	17.3	17.3	
Motor & Pump P 318	14.2	14.2	14.2	
Motor & Pump P 319	14.1	14.1	14.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 327	27.1	27.1	27.1	
Motor & Pump P 328	22.7	22.7	22.7	
Motor & Pump P 329	22.8	22.8	22.8	
Motor & Pump P 451	7.2	7.2	7.2	
Motor & Pump P 453	7.4	7.4	7.4	
Motor & Pump P 454	7.2	7.2	7.2	
Motor & Pump P 457	7.4	7.4	7.4	
Motor & Pump P 458	7.2	7.2	7.2	
Motor & Pump P 459	7.2	7.2	7.2	
Motor & Pump P 56A/B	8.0	8.0	8.0	
Rail Cars Bumping 6 times in during delivery	26.2		38.0	
Tank Farm Pump 1	18.4	18.4	18.4	
Tank Farm Pump 2	19.7	19.7	19.7	
Tank Farm Pump 3	18.7	18.7	18.7	
UP Train Locomotive Delivery and Pickup	15.2		27.0	
XF-1502 Splitter Area 1	17.6	17.6	17.6	
XF-1502 Splitter Area 2	17.6	17.6	17.6	
XF-1504 Splitter Area 1	17.6	17.6	17.6	
XF-1504 Splitter Area 2	17.7	17.7	17.7	
XF - 1601	15.8	15.8	15.8	
XF - 1602	15.8	15.8	15.8	
XF 304, XF 321	26.0	26.0	26.0	
XF 313, XF 314	25.5	25.5	25.5	
XF 335-1, XF 335-2	26.9	26.9	26.9	
XF 503	23.6	23.6	23.6	
XF Module 1510	21.4	21.4	21.4	
XF Module 1519	22.0	22.0	22.0	
Receiver S-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 61.0 dB(A)		Ld 7-19 dB(A)	Leq,N 52.8 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	31.7			
Air Compressor C 1	39.8	39.8	39.8	
Air Compressor Pump	20.4	20.4	20.4	
Blower F 401	36.8	36.8	36.8	
Boiler Crude Unit-Heater Opening	29.9	29.9	29.9	
Compressor House C301, C302, C 124-Comp House East 1	29.1	29.1	29.1	
Compressor House C301, C302, C 124-Comp House East 2	23.4	23.4	23.4	
Compressor House C301, C302, C 124-Comp House North	17.5	17.5	17.5	
Compressor House C301, C302, C 124-Comp House South 1	34.5	34.5	34.5	
Compressor House C301, C302, C 124-Comp House South 2	30.7	30.7	30.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House West	9.8	9.8	9.8	
Construciton Control Room Max Evening Night	36.7	43.7		
Construciton Control Room Max Day	53.5		54.4	
Construction / Renewable Fuels Truck Tr	45.4	35.1	46.0	
Construction Demolition Warehouse Max Day	43.5		44.4	
Construction Demoltion Loading Racks Max Day	38.1		39.0	
Construction H2 Plant Max Day	51.5		52.5	
Construction H2 Plant Max Evening Night	34.8	41.8		
Construction PreTreat Building Max Day	46.6		47.5	
Construction PreTreat Building Max Evening Night	29.9	36.8		
Construction Unit A Construction Max Day	42.9		43.8	
Construction Unit B 2 Max Evening Night	41.5	48.5		
Construction Unit B Max Day	58.2		59.2	
Cooling Tower CT 510-CT 510 East Side	26.6	26.6	26.6	
Cooling Tower CT 510-CT 510 West Side	9.9	9.9	9.9	
Cooling Tower CT 511-CT 511 East Side	35.8	35.8	35.8	
Cooling Tower CT 511-CT 511 West Side	21.2	21.2	21.2	
Cooling Tower M 512	25.4	25.4	25.4	
Cooling Tower M 513	25.4	25.4	25.4	
Cooling Tower M 514	25.4	25.4	25.4	
Crude Operatoin Truck Truck Traffic	17.7	17.7	17.7	
Heater # 5-Heater	34.3	34.3	34.3	
Heater # 5-Heater	33.8	33.8	33.8	
Heater # 5-Heater	27.8	27.8	27.8	
Hydro Heater H-402	21.2	21.2	21.2	
Motor & Pump P - 1502 Splitter Reflux Pu	14.2	14.2	14.2	
Motor & Pump P - 1503 Splitter Bottoms P	14.5	14.5	14.5	
Motor & Pump P - 1504 Splitter Bottoms P	14.9	14.9	14.9	
Motor & Pump P - 1507 Reactor Pump	17.1	17.1	17.1	
Motor & Pump P - 1508 Reactor Pump	17.5	17.5	17.5	
Motor & Pump P - 1511 Stabilizer Reflux	23.8	23.8	23.8	
Motor & Pump P - 1512 Stabilizer Reflux	23.3	23.3	23.3	
Motor & Pump P - 1513 Caustic Circulatin	15.2	15.2	15.2	
Motor & Pump P - 1514 Caustic Circulatin	15.5	15.5	15.5	
Motor & Pump P 120/121	19.7	19.7	19.7	
Motor & Pump P 1505 FRESH FEED PUMPS	15.0	15.0	15.0	
Motor & Pump P 1506 FRESH FEED PUMPS	14.9	14.9	14.9	
Motor & Pump P 1509 Chloride Injection P	21.7	21.7	21.7	
Motor & Pump P 1510 Chloride Injection P	21.7	21.7	21.7	
Motor & Pump P 1601 A	25.8	25.8	25.8	
Motor & Pump P 1601 B	23.5	23.5	23.5	
Motor & Pump P 1602 A	23.6	23.6	23.6	
Motor & Pump P 1602 B	23.9	23.9	23.9	
Motor & Pump P 211/212	20.1	20.1	20.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 215/214	12.4	12.4	12.4	
Motor & Pump P 216	18.2	18.2	18.2	
Motor & Pump P 217/218	20.7	20.7	20.7	
Motor & Pump P 300	21.8	21.8	21.8	
Motor & Pump P 301	25.9	25.9	25.9	
Motor & Pump P 302	21.6	21.6	21.6	
Motor & Pump P 303	20.6	20.6	20.6	
Motor & Pump P 305	16.7	16.7	16.7	
Motor & Pump P 306	32.4	32.4	32.4	
Motor & Pump P 307	17.0	17.0	17.0	
Motor & Pump P 309	17.1	17.1	17.1	
Motor & Pump P 312	27.5	27.5	27.5	
Motor & Pump P 313	21.6	21.6	21.6	
Motor & Pump P 315	19.2	19.2	19.2	
Motor & Pump P 316	23.3	23.3	23.3	
Motor & Pump P 317	23.5	23.5	23.5	
Motor & Pump P 318	18.0	18.0	18.0	
Motor & Pump P 319	17.8	17.8	17.8	
Motor & Pump P 327	30.6	30.6	30.6	
Motor & Pump P 328	33.0	33.0	33.0	
Motor & Pump P 329	33.4	33.4	33.4	
Motor & Pump P 451	11.9	11.9	11.9	
Motor & Pump P 453	16.8	16.8	16.8	
Motor & Pump P 454	12.6	12.6	12.6	
Motor & Pump P 457	16.8	16.8	16.8	
Motor & Pump P 458	11.9	11.9	11.9	
Motor & Pump P 459	12.0	12.0	12.0	
Motor & Pump P 56A/B	18.4	18.4	18.4	
Rail Cars Bumping 6 times in during delivery	33.2		45.0	
Tank Farm Pump 1	24.9	24.9	24.9	
Tank Farm Pump 2	23.4	23.4	23.4	
Tank Farm Pump 3	22.2	22.2	22.2	
UP Train Locomotive Delivery and Pickup	22.0		33.8	
XF-1502 Splitter Area 1	30.8	30.8	30.8	
XF-1502 Splitter Area 2	30.9	30.9	30.9	
XF-1504 Splitter Area 1	30.8	30.8	30.8	
XF-1504 Splitter Area 2	30.9	30.9	30.9	
XF - 1601	27.1	27.1	27.1	
XF - 1602	27.2	27.2	27.2	
XF 304, XF 321	37.3	37.3	37.3	
XF 313, XF 314	35.8	35.8	35.8	
XF 335-1, XF 335-2	37.9	37.9	37.9	
XF 503	33.0	33.0	33.0	
XF Module 1510	34.9	34.9	34.9	
XF Module 1519	35.2	35.2	35.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Receiver S-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 66.0 dB(A)		Ld 7-19 dB(A)	Leq,N 57.2 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	40.3			
Air Compressor C 1	39.4	39.4	39.4	
Air Compressor Pump	23.0	23.0	23.0	
Blower F 401	41.6	41.6	41.6	
Boiler Crude Unit-Heater Opening	40.9	40.9	40.9	
Compressor House C301, C302, C 124-Comp House East 1	35.9	35.9	35.9	
Compressor House C301, C302, C 124-Comp House East 2	31.9	31.9	31.9	
Compressor House C301, C302, C 124-Comp House North	27.9	27.9	27.9	
Compressor House C301, C302, C 124-Comp House South 1	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House South 2	35.6	35.6	35.6	
Compressor House C301, C302, C 124-Comp House West	13.7	13.7	13.7	
Construciton Control Room Max Evening Night	40.2	47.2		
Construciton Control Room Max Day	56.9		57.9	
Construction / Renewable Fuels Truck Tr	43.7	24.3	44.4	
Construction Demolition Warehouse Max Day	42.7		43.6	
Construction Demoltion Loading Racks Max Day	45.9		46.8	
Construction H2 Plant Max Day	55.6		56.6	
Construction H2 Plant Max Evening Night	38.9	45.9		
Construction PreTreat Building Max Day	53.7		54.6	
Construction PreTreat Building Max Evening Night	37.0	43.9		
Construction Unit A Construction Max Day	48.2		49.2	
Construction Unit B 2 Max Evening Night	47.3	54.3		
Construction Unit B Max Day	64.0		65.0	
Cooling Tower CT 510-CT 510 East Side	30.3	30.3	30.3	
Cooling Tower CT 510-CT 510 West Side	13.1	13.1	13.1	
Cooling Tower CT 511-CT 511 East Side	39.0	39.0	39.0	
Cooling Tower CT 511-CT 511 West Side	19.0	19.0	19.0	
Cooling Tower M 512	26.5	26.5	26.5	
Cooling Tower M 513	26.4	26.4	26.4	
Cooling Tower M 514	25.7	25.7	25.7	
Crude Operatoin Truck Truck Traffic	23.1	23.1	23.1	
Heater # 5-Heater	40.5	40.5	40.5	
Heater # 5-Heater	34.7	34.7	34.7	
Heater # 5-Heater	33.3	33.3	33.3	
Hydro Heater H-402	26.8	26.8	26.8	
Motor & Pump P - 1502 Splitter Reflux Pu	18.4	18.4	18.4	
Motor & Pump P - 1503 Splitter Bottoms P	18.0	18.0	18.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	18.9	18.9	18.9	
Motor & Pump P - 1507 Reactor Pump	21.0	21.0	21.0	
Motor & Pump P - 1508 Reactor Pump	20.3	20.3	20.3	
Motor & Pump P - 1511 Stabilizer Reflux	20.8	20.8	20.8	
Motor & Pump P - 1512 Stabilizer Reflux	20.8	20.8	20.8	
Motor & Pump P - 1513 Caustic Circulatin	20.4	20.4	20.4	
Motor & Pump P - 1514 Caustic Circulatin	20.6	20.6	20.6	
Motor & Pump P 120/121	20.2	20.2	20.2	
Motor & Pump P 1505 FRESH FEED PUMPS	19.6	19.6	19.6	
Motor & Pump P 1506 FRESH FEED PUMPS	19.9	19.9	19.9	
Motor & Pump P 1509 Chloride Injection P	17.9	17.9	17.9	
Motor & Pump P 1510 Chloride Injection P	26.2	26.2	26.2	
Motor & Pump P 1601 A	20.1	20.1	20.1	
Motor & Pump P 1601 B	20.1	20.1	20.1	
Motor & Pump P 1602 A	25.3	25.3	25.3	
Motor & Pump P 1602 B	28.5	28.5	28.5	
Motor & Pump P 211/212	23.0	23.0	23.0	
Motor & Pump P 215/214	25.2	25.2	25.2	
Motor & Pump P 216	28.0	28.0	28.0	
Motor & Pump P 217/218	22.3	22.3	22.3	
Motor & Pump P 300	22.1	22.1	22.1	
Motor & Pump P 301	28.3	28.3	28.3	
Motor & Pump P 302	21.8	21.8	21.8	
Motor & Pump P 303	22.0	22.0	22.0	
Motor & Pump P 305	21.2	21.2	21.2	
Motor & Pump P 306	37.3	37.3	37.3	
Motor & Pump P 307	22.6	22.6	22.6	
Motor & Pump P 309	21.0	21.0	21.0	
Motor & Pump P 312	27.8	27.8	27.8	
Motor & Pump P 313	28.0	28.0	28.0	
Motor & Pump P 315	26.1	26.1	26.1	
Motor & Pump P 316	27.0	27.0	27.0	
Motor & Pump P 317	27.0	27.0	27.0	
Motor & Pump P 318	23.5	23.5	23.5	
Motor & Pump P 319	23.5	23.5	23.5	
Motor & Pump P 327	34.4	34.4	34.4	
Motor & Pump P 328	34.4	34.4	34.4	
Motor & Pump P 329	35.0	35.0	35.0	
Motor & Pump P 451	23.2	23.2	23.2	
Motor & Pump P 453	27.1	27.1	27.1	
Motor & Pump P 454	17.4	17.4	17.4	
Motor & Pump P 457	29.3	29.3	29.3	
Motor & Pump P 458	23.2	23.2	23.2	
Motor & Pump P 459	16.3	16.3	16.3	
Motor & Pump P 56A/B	23.6	23.6	23.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Rail Cars Bumping 6 times in during delivery	41.0		52.8	
Tank Farm Pump 1	32.1	32.1	32.1	
Tank Farm Pump 2	24.4	24.4	24.4	
Tank Farm Pump 3	26.0	26.0	26.0	
UP Train Locomotive Delivery and Pickup	33.3		45.0	
XF-1502 Splitter Area 1	33.6	33.6	33.6	
XF-1502 Splitter Area 2	30.4	30.4	30.4	
XF-1504 Splitter Area 1	35.8	35.8	35.8	
XF-1504 Splitter Area 2	33.7	33.7	33.7	
XF - 1601	31.6	31.6	31.6	
XF - 1602	31.7	31.7	31.7	
XF 304, XF 321	38.5	38.5	38.5	
XF 313, XF 314	33.7	33.7	33.7	
XF 335-1, XF 335-2	40.8	40.8	40.8	
XF 503	36.4	36.4	36.4	
XF Module 1510	34.0	34.0	34.0	
XF Module 1519	28.7	28.7	28.7	
Receiver S-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 78.5 dB(A)		Ld 7-19 dB(A)	Leq,N 69.4 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	50.9			
Air Compressor C 1	47.7	47.7	47.7	
Air Compressor Pump	35.3	35.3	35.3	
Blower F 401	47.5	47.5	47.5	
Boiler Crude Unit-Heater Opening	55.9	55.9	55.9	
Compressor House C301, C302, C 124-Comp House East 1	39.9	39.9	39.9	
Compressor House C301, C302, C 124-Comp House East 2	37.9	37.9	37.9	
Compressor House C301, C302, C 124-Comp House North	29.0	29.0	29.0	
Compressor House C301, C302, C 124-Comp House South 1	41.7	41.7	41.7	
Compressor House C301, C302, C 124-Comp House South 2	40.6	40.6	40.6	
Compressor House C301, C302, C 124-Comp House West	15.7	15.7	15.7	
Construciton Control Room Max Evening Night	48.0	55.0		
Construciton Control Room Max Day	64.7		65.7	
Construction / Renewable Fuels Truck Tr	49.7	25.6	50.4	
Construction Demolition Warehouse Max Day	48.2		49.2	
Construction Demoltion Loading Racks Max Day	54.4		55.4	
Construction H2 Plant Max Day	65.6		66.5	
Construction H2 Plant Max Evening Night	48.9	55.8		
Construction PreTreat Building Max Day	64.3		65.2	
Construction PreTreat Building Max Evening Night	47.5	54.5		

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction Unit A Construction Max Day	55.2		56.2	
Construction Unit B 2 Max Evening Night	60.9	67.9		
Construction Unit B Max Day	77.6		78.6	
Cooling Tower CT 510-CT 510 East Side	38.8	38.8	38.8	
Cooling Tower CT 510-CT 510 West Side	16.6	16.6	16.6	
Cooling Tower CT 511-CT 511 East Side	43.5	43.5	43.5	
Cooling Tower CT 511-CT 511 West Side	20.3	20.3	20.3	
Cooling Tower M 512	37.1	37.1	37.1	
Cooling Tower M 513	37.2	37.2	37.2	
Cooling Tower M 514	36.2	36.2	36.2	
Crude Operatoin Truck Truck Traffic	26.4	26.4	26.4	
Heater # 5-Heater	50.9	50.9	50.9	
Heater # 5-Heater	53.3	53.3	53.3	
Heater # 5-Heater	53.8	53.8	53.8	
Hydro Heater H-402	32.9	32.9	32.9	
Motor & Pump P - 1502 Splitter Reflux Pu	23.6	23.6	23.6	
Motor & Pump P - 1503 Splitter Bottoms P	20.1	20.1	20.1	
Motor & Pump P - 1504 Splitter Bottoms P	22.1	22.1	22.1	
Motor & Pump P - 1507 Reactor Pump	24.1	24.1	24.1	
Motor & Pump P - 1508 Reactor Pump	24.3	24.3	24.3	
Motor & Pump P - 1511 Stabilizer Reflux	24.0	24.0	24.0	
Motor & Pump P - 1512 Stabilizer Reflux	23.5	23.5	23.5	
Motor & Pump P - 1513 Caustic Circulatin	22.3	22.3	22.3	
Motor & Pump P - 1514 Caustic Circulatin	23.1	23.1	23.1	
Motor & Pump P 120/121	22.7	22.7	22.7	
Motor & Pump P 1505 FRESH FEED PUMPS	22.1	22.1	22.1	
Motor & Pump P 1506 FRESH FEED PUMPS	22.7	22.7	22.7	
Motor & Pump P 1509 Chloride Injection P	33.2	33.2	33.2	
Motor & Pump P 1510 Chloride Injection P	23.7	23.7	23.7	
Motor & Pump P 1601 A	22.9	22.9	22.9	
Motor & Pump P 1601 B	30.1	30.1	30.1	
Motor & Pump P 1602 A	31.4	31.4	31.4	
Motor & Pump P 1602 B	30.6	30.6	30.6	
Motor & Pump P 211/212	28.8	28.8	28.8	
Motor & Pump P 215/214	34.0	34.0	34.0	
Motor & Pump P 216	32.4	32.4	32.4	
Motor & Pump P 217/218	28.5	28.5	28.5	
Motor & Pump P 300	28.4	28.4	28.4	
Motor & Pump P 301	34.2	34.2	34.2	
Motor & Pump P 302	27.1	27.1	27.1	
Motor & Pump P 303	26.3	26.3	26.3	
Motor & Pump P 305	25.7	25.7	25.7	
Motor & Pump P 306	40.2	40.2	40.2	
Motor & Pump P 307	25.3	25.3	25.3	
Motor & Pump P 309	25.0	25.0	25.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 312	34.1	34.1	34.1	
Motor & Pump P 313	34.1	34.1	34.1	
Motor & Pump P 315	39.1	39.1	39.1	
Motor & Pump P 316	40.0	40.0	40.0	
Motor & Pump P 317	40.5	40.5	40.5	
Motor & Pump P 318	33.2	33.2	33.2	
Motor & Pump P 319	30.7	30.7	30.7	
Motor & Pump P 327	37.5	37.5	37.5	
Motor & Pump P 328	38.0	38.0	38.0	
Motor & Pump P 329	38.3	38.3	38.3	
Motor & Pump P 451	29.3	29.3	29.3	
Motor & Pump P 453	35.8	35.8	35.8	
Motor & Pump P 454	30.4	30.4	30.4	
Motor & Pump P 457	35.0	35.0	35.0	
Motor & Pump P 458	30.2	30.2	30.2	
Motor & Pump P 459	29.2	29.2	29.2	
Motor & Pump P 56A/B	27.5	27.5	27.5	
Rail Cars Bumping 6 times in during delivery	50.3		62.1	
Tank Farm Pump 1	43.0	43.0	43.0	
Tank Farm Pump 2	39.9	39.9	39.9	
Tank Farm Pump 3	40.1	40.1	40.1	
UP Train Locomotive Delivery and Pickup	39.0		50.7	
XF-1502 Splitter Area 1	37.9	37.9	37.9	
XF-1502 Splitter Area 2	38.7	38.7	38.7	
XF-1504 Splitter Area 1	38.8	38.8	38.8	
XF-1504 Splitter Area 2	39.5	39.5	39.5	
XF - 1601	36.9	36.9	36.9	
XF - 1602	37.1	37.1	37.1	
XF 304, XF 321	42.4	42.4	42.4	
XF 313, XF 314	43.2	43.2	43.2	
XF 335-1, XF 335-2	46.1	46.1	46.1	
XF 503	47.1	47.1	47.1	
XF Module 1510	41.7	41.7	41.7	
XF Module 1519	39.0	39.0	39.0	
Receiver S-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 80.4 dB(A) Ld 7-19 dB(A) Leq,N 70.7 dB(A) Le 19-2				
2011 Track Mobile switch moving rail cars 33 cars per day	61.6			
Air Compressor C 1	45.6	45.6	45.6	
Air Compressor Pump	39.4	39.4	39.4	
Blower F 401	50.7	50.7	50.7	
Boiler Crude Unit-Heater Opening	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House East 1	41.8	41.8	41.8	
Compressor House C301, C302, C 124-Comp House East 2	40.9	40.9	40.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House North	29.6	29.6	29.6	
Compressor House C301, C302, C 124-Comp House South 1	43.8	43.8	43.8	
Compressor House C301, C302, C 124-Comp House South 2	40.8	40.8	40.8	
Compressor House C301, C302, C 124-Comp House West	25.4	25.4	25.4	
Construciton Control Room Max Evening Night	54.6	61.6		
Construciton Control Room Max Day	71.3		72.3	
Construction / Renewable Fuels Truck Tr	53.7	23.2	54.3	
Construction Demolition Warehouse Max Day	48.0		49.0	
Construction Demoltion Loading Racks Max Day	51.4		52.4	
Construction H2 Plant Max Day	66.3		67.2	
Construction H2 Plant Max Evening Night	49.5	56.5		
Construction PreTreat Building Max Day	63.3		64.3	
Construction PreTreat Building Max Evening Night	46.6	53.6		
Construction Unit A Construction Max Day	57.7		58.7	
Construction Unit B 2 Max Evening Night	62.5	69.5		
Construction Unit B Max Day	79.2		80.2	
Cooling Tower CT 510-CT 510 East Side	44.4	44.4	44.4	
Cooling Tower CT 510-CT 510 West Side	18.4	18.4	18.4	
Cooling Tower CT 511-CT 511 East Side	46.4	46.4	46.4	
Cooling Tower CT 511-CT 511 West Side	25.5	25.5	25.5	
Cooling Tower M 512	32.7	32.7	32.7	
Cooling Tower M 513	31.4	31.4	31.4	
Cooling Tower M 514	37.7	37.7	37.7	
Crude Operatoin Truck Truck Traffic	30.1	30.1	30.1	
Heater # 5-Heater	25.9	25.9	25.9	
Heater # 5-Heater	26.8	26.8	26.8	
Heater # 5-Heater	28.2	28.2	28.2	
Hydro Heater H-402	40.7	40.7	40.7	
Motor & Pump P - 1502 Splitter Reflux Pu	29.1	29.1	29.1	
Motor & Pump P - 1503 Splitter Bottoms P	31.3	31.3	31.3	
Motor & Pump P - 1504 Splitter Bottoms P	26.5	26.5	26.5	
Motor & Pump P - 1507 Reactor Pump	28.9	28.9	28.9	
Motor & Pump P - 1508 Reactor Pump	29.8	29.8	29.8	
Motor & Pump P - 1511 Stabilizer Reflux	24.7	24.7	24.7	
Motor & Pump P - 1512 Stabilizer Reflux	24.9	24.9	24.9	
Motor & Pump P - 1513 Caustic Circulatin	26.5	26.5	26.5	
Motor & Pump P - 1514 Caustic Circulatin	24.8	24.8	24.8	
Motor & Pump P 120/121	26.0	26.0	26.0	
Motor & Pump P 1505 FRESH FEED PUMPS	25.6	25.6	25.6	
Motor & Pump P 1506 FRESH FEED PUMPS	22.7	22.7	22.7	
Motor & Pump P 1509 Chloride Injection P	26.2	26.2	26.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1510 Chloride Injection P	26.7	26.7	26.7	
Motor & Pump P 1601 A	30.6	30.6	30.6	
Motor & Pump P 1601 B	26.4	26.4	26.4	
Motor & Pump P 1602 A	22.2	22.2	22.2	
Motor & Pump P 1602 B	22.8	22.8	22.8	
Motor & Pump P 211/212	32.6	32.6	32.6	
Motor & Pump P 215/214	34.7	34.7	34.7	
Motor & Pump P 216	37.0	37.0	37.0	
Motor & Pump P 217/218	31.7	31.7	31.7	
Motor & Pump P 300	23.6	23.6	23.6	
Motor & Pump P 301	28.3	28.3	28.3	
Motor & Pump P 302	23.9	23.9	23.9	
Motor & Pump P 303	24.2	24.2	24.2	
Motor & Pump P 305	24.7	24.7	24.7	
Motor & Pump P 306	39.2	39.2	39.2	
Motor & Pump P 307	30.2	30.2	30.2	
Motor & Pump P 309	24.4	24.4	24.4	
Motor & Pump P 312	40.7	40.7	40.7	
Motor & Pump P 313	39.0	39.0	39.0	
Motor & Pump P 315	43.9	43.9	43.9	
Motor & Pump P 316	44.4	44.4	44.4	
Motor & Pump P 317	43.2	43.2	43.2	
Motor & Pump P 318	38.0	38.0	38.0	
Motor & Pump P 319	36.7	36.7	36.7	
Motor & Pump P 327	38.5	38.5	38.5	
Motor & Pump P 328	37.1	37.1	37.1	
Motor & Pump P 329	36.8	36.8	36.8	
Motor & Pump P 451	36.8	36.8	36.8	
Motor & Pump P 453	36.4	36.4	36.4	
Motor & Pump P 454	36.6	36.6	36.6	
Motor & Pump P 457	37.2	37.2	37.2	
Motor & Pump P 458	37.3	37.3	37.3	
Motor & Pump P 459	36.9	36.9	36.9	
Motor & Pump P 56A/B	28.1	28.1	28.1	
Rail Cars Bumping 6 times in during delivery	59.0		70.8	
Tank Farm Pump 1	41.2	41.2	41.2	
Tank Farm Pump 2	40.0	40.0	40.0	
Tank Farm Pump 3	39.8	39.8	39.8	
UP Train Locomotive Delivery and Pickup	49.1		60.9	
XF-1502 Splitter Area 1	40.9	40.9	40.9	
XF-1502 Splitter Area 2	44.0	44.0	44.0	
XF-1504 Splitter Area 1	41.2	41.2	41.2	
XF-1504 Splitter Area 2	41.4	41.4	41.4	
XF - 1601	39.4	39.4	39.4	
XF - 1602	39.9	39.9	39.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 304, XF 321	45.1	45.1	45.1	
XF 313, XF 314	40.4	40.4	40.4	
XF 335-1, XF 335-2	44.6	44.6	44.6	
XF 503	49.1	49.1	49.1	
XF Module 1510	46.8	46.8	46.8	
XF Module 1519	46.6	46.6	46.6	
Receiver S-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 76.8 dB(A)		Ld 7-19 dB(A)	Leq,N 68.2 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	65.7			
Air Compressor C 1	51.9	51.9	51.9	
Air Compressor Pump	52.9	52.9	52.9	
Blower F 401	55.4	55.4	55.4	
Boiler Crude Unit-Heater Opening	32.8	32.8	32.8	
Compressor House C301, C302, C 124-Comp House East 1	44.5	44.5	44.5	
Compressor House C301, C302, C 124-Comp House East 2	44.7	44.7	44.7	
Compressor House C301, C302, C 124-Comp House North	37.6	37.6	37.6	
Compressor House C301, C302, C 124-Comp House South 1	47.2	47.2	47.2	
Compressor House C301, C302, C 124-Comp House South 2	43.4	43.4	43.4	
Compressor House C301, C302, C 124-Comp House West	31.3	31.3	31.3	
Construciton Control Room Max Evening Night	48.0	55.0		
Construciton Control Room Max Day	64.7		65.7	
Construction / Renewable Fuels Truck Tr	54.9	25.9	55.6	
Construction Demolition Warehouse Max Day	45.1		46.1	
Construction Demoltion Loading Racks Max Day	47.7		48.6	
Construction H2 Plant Max Day	72.5		73.4	
Construction H2 Plant Max Evening Night	55.7	62.7		
Construction PreTreat Building Max Day	62.3		63.2	
Construction PreTreat Building Max Evening Night	45.5	52.5		
Construction Unit A Construction Max Day	59.1		60.1	
Construction Unit B 2 Max Evening Night	55.5	62.5		
Construction Unit B Max Day	72.2		73.2	
Cooling Tower CT 510-CT 510 East Side	40.5	40.5	40.5	
Cooling Tower CT 510-CT 510 West Side	27.7	27.7	27.7	
Cooling Tower CT 511-CT 511 East Side	41.6	41.6	41.6	
Cooling Tower CT 511-CT 511 West Side	39.4	39.4	39.4	
Cooling Tower M 512	29.4	29.4	29.4	
Cooling Tower M 513	28.8	28.8	28.8	
Cooling Tower M 514	29.3	29.3	29.3	
Crude Operatoin Truck Truck Traffic	29.3	29.3	29.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Heater # 5-Heater	29.3	29.3	29.3	
Heater # 5-Heater	29.8	29.8	29.8	
Heater # 5-Heater	29.9	29.9	29.9	
Hydro Heater H-402	45.5	45.5	45.5	
Motor & Pump P - 1502 Splitter Reflux Pu	31.4	31.4	31.4	
Motor & Pump P - 1503 Splitter Bottoms P	31.7	31.7	31.7	
Motor & Pump P - 1504 Splitter Bottoms P	31.7	31.7	31.7	
Motor & Pump P - 1507 Reactor Pump	31.6	31.6	31.6	
Motor & Pump P - 1508 Reactor Pump	33.0	33.0	33.0	
Motor & Pump P - 1511 Stabilizer Reflux	30.8	30.8	30.8	
Motor & Pump P - 1512 Stabilizer Reflux	28.0	28.0	28.0	
Motor & Pump P - 1513 Caustic Circulatin	30.4	30.4	30.4	
Motor & Pump P - 1514 Caustic Circulatin	28.1	28.1	28.1	
Motor & Pump P 120/121	30.0	30.0	30.0	
Motor & Pump P 1505 FRESH FEED PUMPS	30.2	30.2	30.2	
Motor & Pump P 1506 FRESH FEED PUMPS	29.6	29.6	29.6	
Motor & Pump P 1509 Chloride Injection P	28.2	28.2	28.2	
Motor & Pump P 1510 Chloride Injection P	28.2	28.2	28.2	
Motor & Pump P 1601 A	26.2	26.2	26.2	
Motor & Pump P 1601 B	25.4	25.4	25.4	
Motor & Pump P 1602 A	25.3	25.3	25.3	
Motor & Pump P 1602 B	25.5	25.5	25.5	
Motor & Pump P 211/212	38.2	38.2	38.2	
Motor & Pump P 215/214	36.9	36.9	36.9	
Motor & Pump P 216	41.3	41.3	41.3	
Motor & Pump P 217/218	37.5	37.5	37.5	
Motor & Pump P 300	35.0	35.0	35.0	
Motor & Pump P 301	40.6	40.6	40.6	
Motor & Pump P 302	35.1	35.1	35.1	
Motor & Pump P 303	35.1	35.1	35.1	
Motor & Pump P 305	35.3	35.3	35.3	
Motor & Pump P 306	47.0	47.0	47.0	
Motor & Pump P 307	39.5	39.5	39.5	
Motor & Pump P 309	34.9	34.9	34.9	
Motor & Pump P 312	44.1	44.1	44.1	
Motor & Pump P 313	45.9	45.9	45.9	
Motor & Pump P 315	48.9	48.9	48.9	
Motor & Pump P 316	48.9	48.9	48.9	
Motor & Pump P 317	48.8	48.8	48.8	
Motor & Pump P 318	49.5	49.5	49.5	
Motor & Pump P 319	49.5	49.5	49.5	
Motor & Pump P 327	40.4	40.4	40.4	
Motor & Pump P 328	46.3	46.3	46.3	
Motor & Pump P 329	46.5	46.5	46.5	
Motor & Pump P 451	35.1	35.1	35.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 453	39.7	39.7	39.7	
Motor & Pump P 454	34.3	34.3	34.3	
Motor & Pump P 457	40.4	40.4	40.4	
Motor & Pump P 458	37.4	37.4	37.4	
Motor & Pump P 459	34.7	34.7	34.7	
Motor & Pump P 56A/B	37.3	37.3	37.3	
Rail Cars Bumping 6 times in during delivery	59.0		70.7	
Tank Farm Pump 1	38.3	38.3	38.3	
Tank Farm Pump 2	37.9	37.9	37.9	
Tank Farm Pump 3	37.9	37.9	37.9	
UP Train Locomotive Delivery and Pickup	55.0		66.7	
XF-1502 Splitter Area 1	37.1	37.1	37.1	
XF-1502 Splitter Area 2	40.5	40.5	40.5	
XF-1504 Splitter Area 1	39.2	39.2	39.2	
XF-1504 Splitter Area 2	39.6	39.6	39.6	
XF - 1601	39.5	39.5	39.5	
XF - 1602	40.3	40.3	40.3	
XF 304, XF 321	50.7	50.7	50.7	
XF 313, XF 314	46.0	46.0	46.0	
XF 335-1, XF 335-2	50.3	50.3	50.3	
XF 503	56.1	56.1	56.1	
XF Module 1510	39.9	39.9	39.9	
XF Module 1519	44.8	44.8	44.8	
Receiver S-9 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 77.0 dB(A)		Ld 7-19 dB(A)	Leq,N 75.7 dB(A) Le 19-2
2011 Track Mobile switch moving rail cars 33 cars per day	58.2			
Air Compressor C 1	48.5	48.5	48.5	
Air Compressor Pump	41.7	41.7	41.7	
Blower F 401	73.0	73.0	73.0	
Boiler Crude Unit-Heater Opening	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House East 1	57.8	57.8	57.8	
Compressor House C301, C302, C 124-Comp House East 2	56.9	56.9	56.9	
Compressor House C301, C302, C 124-Comp House North	40.4	40.4	40.4	
Compressor House C301, C302, C 124-Comp House South 1	58.6	58.6	58.6	
Compressor House C301, C302, C 124-Comp House South 2	51.7	51.7	51.7	
Compressor House C301, C302, C 124-Comp House West	42.4	42.4	42.4	
Construciton Control Room Max Evening Night	44.1	51.1		
Construciton Control Room Max Day	60.8		61.8	
Construction / Renewable Fuels Truck Tr	46.0	19.8	46.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction Demolition Warehouse Max Day	46.4		47.3	
Construction Demoltion Loading Racks Max Day	44.1		45.1	
Construction H2 Plant Max Day	62.8		63.8	
Construction H2 Plant Max Evening Night	46.1	53.1		
Construction PreTreat Building Max Day	57.5		58.4	
Construction PreTreat Building Max Evening Night	40.7	47.7		
Construction Unit A Construction Max Day	67.3		68.3	
Construction Unit B 2 Max Evening Night	48.5	55.4		
Construction Unit B Max Day	65.2		66.1	
Cooling Tower CT 510-CT 510 East Side	45.9	45.9	45.9	
Cooling Tower CT 510-CT 510 West Side	48.0	48.0	48.0	
Cooling Tower CT 511-CT 511 East Side	26.7	26.7	26.7	
Cooling Tower CT 511-CT 511 West Side	53.5	53.5	53.5	
Cooling Tower M 512	47.6	47.6	47.6	
Cooling Tower M 513	47.8	47.8	47.8	
Cooling Tower M 514	49.8	49.8	49.8	
Crude Operatoin Truck Truck Traffic	24.6	24.6	24.6	
Heater # 5-Heater	19.3	19.3	19.3	
Heater # 5-Heater	19.2	19.2	19.2	
Heater # 5-Heater	20.0	20.0	20.0	
Hydro Heater H-402	54.7	54.7	54.7	
Motor & Pump P - 1502 Splitter Reflux Pu	42.4	42.4	42.4	
Motor & Pump P - 1503 Splitter Bottoms P	42.2	42.2	42.2	
Motor & Pump P - 1504 Splitter Bottoms P	42.0	42.0	42.0	
Motor & Pump P - 1507 Reactor Pump	49.2	49.2	49.2	
Motor & Pump P - 1508 Reactor Pump	48.9	48.9	48.9	
Motor & Pump P - 1511 Stabilizer Reflux	41.0	41.0	41.0	
Motor & Pump P - 1512 Stabilizer Reflux	42.5	42.5	42.5	
Motor & Pump P - 1513 Caustic Circulatin	46.7	46.7	46.7	
Motor & Pump P - 1514 Caustic Circulatin	43.0	43.0	43.0	
Motor & Pump P 120/121	30.3	30.3	30.3	
Motor & Pump P 1505 FRESH FEED PUMPS	50.9	50.9	50.9	
Motor & Pump P 1506 FRESH FEED PUMPS	49.2	49.2	49.2	
Motor & Pump P 1509 Chloride Injection P	36.4	36.4	36.4	
Motor & Pump P 1510 Chloride Injection P	35.8	35.8	35.8	
Motor & Pump P 1601 A	33.2	33.2	33.2	
Motor & Pump P 1601 B	34.7	34.7	34.7	
Motor & Pump P 1602 A	33.5	33.5	33.5	
Motor & Pump P 1602 B	33.4	33.4	33.4	
Motor & Pump P 211/212	49.5	49.5	49.5	
Motor & Pump P 215/214	54.6	54.6	54.6	
Motor & Pump P 216	59.5	59.5	59.5	
Motor & Pump P 217/218	50.5	50.5	50.5	
Motor & Pump P 300	46.8	46.8	46.8	
Motor & Pump P 301	52.0	52.0	52.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 302	46.7	46.7	46.7	
Motor & Pump P 303	46.7	46.7	46.7	
Motor & Pump P 305	46.9	46.9	46.9	
Motor & Pump P 306	60.3	60.3	60.3	
Motor & Pump P 307	52.3	52.3	52.3	
Motor & Pump P 309	46.8	46.8	46.8	
Motor & Pump P 312	53.3	53.3	53.3	
Motor & Pump P 313	53.5	53.5	53.5	
Motor & Pump P 315	56.1	56.1	56.1	
Motor & Pump P 316	56.4	56.4	56.4	
Motor & Pump P 317	57.0	57.0	57.0	
Motor & Pump P 318	52.3	52.3	52.3	
Motor & Pump P 319	52.2	52.2	52.2	
Motor & Pump P 327	47.6	47.6	47.6	
Motor & Pump P 328	58.6	58.6	58.6	
Motor & Pump P 329	59.1	59.1	59.1	
Motor & Pump P 451	43.4	43.4	43.4	
Motor & Pump P 453	52.5	52.5	52.5	
Motor & Pump P 454	44.0	44.0	44.0	
Motor & Pump P 457	49.3	49.3	49.3	
Motor & Pump P 458	43.1	43.1	43.1	
Motor & Pump P 459	44.5	44.5	44.5	
Motor & Pump P 56A/B	48.4	48.4	48.4	
Rail Cars Bumping 6 times in during delivery	58.9		70.7	
Tank Farm Pump 1	32.2	32.2	32.2	
Tank Farm Pump 2	31.6	31.6	31.6	
Tank Farm Pump 3	31.3	31.3	31.3	
UP Train Locomotive Delivery and Pickup	55.2		67.0	
XF-1502 Splitter Area 1	46.9	46.9	46.9	
XF-1502 Splitter Area 2	44.2	44.2	44.2	
XF-1504 Splitter Area 1	48.2	48.2	48.2	
XF-1504 Splitter Area 2	48.5	48.5	48.5	
XF - 1601	43.0	43.0	43.0	
XF - 1602	44.9	44.9	44.9	
XF 304, XF 321	57.6	57.6	57.6	
XF 313, XF 314	54.5	54.5	54.5	
XF 335-1, XF 335-2	54.9	54.9	54.9	
XF 503	65.5	65.5	65.5	
XF Module 1510	51.0	51.0	51.0	
XF Module 1519	56.6	56.6	56.6	
Receiver S-10 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 74.7 dB(A) Ld 7-19 dB(A) Leq,N 68.7 dB(A) Le 19-2				
2011 Track Mobile switch moving rail cars 33 cars per day	57.1			
Air Compressor C 1	52.7	52.7	52.7	
Air Compressor Pump	39.8	39.8	39.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Blower F 401	60.0	60.0	60.0	
Boiler Crude Unit-Heater Opening	30.5	30.5	30.5	
Compressor House C301, C302, C 124-Comp House East 1	33.6	33.6	33.6	
Compressor House C301, C302, C 124-Comp House East 2	38.0	38.0	38.0	
Compressor House C301, C302, C 124-Comp House North	57.0	57.0	57.0	
Compressor House C301, C302, C 124-Comp House South 1	47.2	47.2	47.2	
Compressor House C301, C302, C 124-Comp House South 2	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House West	52.7	52.7	52.7	
Construciton Control Room Max Evening Night	41.1	48.1		
Construciton Control Room Max Day	57.8		58.8	
Construction / Renewable Fuels Truck Tr	44.2	19.4	44.9	
Construction Demolition Warehouse Max Day	44.3		45.3	
Construction Demoltion Loading Racks Max Day	46.1		47.0	
Construction H2 Plant Max Day	61.2		62.2	
Construction H2 Plant Max Evening Night	44.5	51.5		
Construction PreTreat Building Max Day	55.4		56.4	
Construction PreTreat Building Max Evening Night	38.7	45.7		
Construction Unit A Construction Max Day	72.5		73.4	
Construction Unit B 2 Max Evening Night	42.1	49.1		
Construction Unit B Max Day	58.8		59.8	
Cooling Tower CT 510-CT 510 East Side	30.0	30.0	30.0	
Cooling Tower CT 510-CT 510 West Side	38.3	38.3	38.3	
Cooling Tower CT 511-CT 511 East Side	21.1	21.1	21.1	
Cooling Tower CT 511-CT 511 West Side	38.0	38.0	38.0	
Cooling Tower M 512	31.0	31.0	31.0	
Cooling Tower M 513	31.0	31.0	31.0	
Cooling Tower M 514	31.6	31.6	31.6	
Crude Operatoin Truck Truck Traffic	20.9	20.9	20.9	
Heater # 5-Heater	16.4	16.4	16.4	
Heater # 5-Heater	16.4	16.4	16.4	
Heater # 5-Heater	17.4	17.4	17.4	
Hydro Heater H-402	38.5	38.5	38.5	
Motor & Pump P - 1502 Splitter Reflux Pu	40.7	40.7	40.7	
Motor & Pump P - 1503 Splitter Bottoms P	43.6	43.6	43.6	
Motor & Pump P - 1504 Splitter Bottoms P	45.8	45.8	45.8	
Motor & Pump P - 1507 Reactor Pump	43.9	43.9	43.9	
Motor & Pump P - 1508 Reactor Pump	46.1	46.1	46.1	
Motor & Pump P - 1511 Stabilizer Reflux	44.9	44.9	44.9	
Motor & Pump P - 1512 Stabilizer Reflux	45.2	45.2	45.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	46.0	46.0	46.0	
Motor & Pump P - 1514 Caustic Circulatin	45.8	45.8	45.8	
Motor & Pump P 120/121	34.0	34.0	34.0	
Motor & Pump P 1505 FRESH FEED PUMPS	36.5	36.5	36.5	
Motor & Pump P 1506 FRESH FEED PUMPS	40.8	40.8	40.8	
Motor & Pump P 1509 Chloride Injection P	35.4	35.4	35.4	
Motor & Pump P 1510 Chloride Injection P	33.9	33.9	33.9	
Motor & Pump P 1601 A	36.0	36.0	36.0	
Motor & Pump P 1601 B	36.4	36.4	36.4	
Motor & Pump P 1602 A	37.3	37.3	37.3	
Motor & Pump P 1602 B	37.9	37.9	37.9	
Motor & Pump P 211/212	44.9	44.9	44.9	
Motor & Pump P 215/214	40.9	40.9	40.9	
Motor & Pump P 216	50.9	50.9	50.9	
Motor & Pump P 217/218	44.7	44.7	44.7	
Motor & Pump P 300	38.5	38.5	38.5	
Motor & Pump P 301	43.6	43.6	43.6	
Motor & Pump P 302	38.5	38.5	38.5	
Motor & Pump P 303	38.2	38.2	38.2	
Motor & Pump P 305	38.5	38.5	38.5	
Motor & Pump P 306	53.9	53.9	53.9	
Motor & Pump P 307	44.6	44.6	44.6	
Motor & Pump P 309	38.2	38.2	38.2	
Motor & Pump P 312	47.7	47.7	47.7	
Motor & Pump P 313	51.1	51.1	51.1	
Motor & Pump P 315	56.5	56.5	56.5	
Motor & Pump P 316	56.6	56.6	56.6	
Motor & Pump P 317	56.9	56.9	56.9	
Motor & Pump P 318	54.2	54.2	54.2	
Motor & Pump P 319	53.1	53.1	53.1	
Motor & Pump P 327	53.7	53.7	53.7	
Motor & Pump P 328	52.2	52.2	52.2	
Motor & Pump P 329	52.6	52.6	52.6	
Motor & Pump P 451	35.3	35.3	35.3	
Motor & Pump P 453	30.8	30.8	30.8	
Motor & Pump P 454	35.2	35.2	35.2	
Motor & Pump P 457	36.8	36.8	36.8	
Motor & Pump P 458	35.2	35.2	35.2	
Motor & Pump P 459	35.0	35.0	35.0	
Motor & Pump P 56A/B	45.0	45.0	45.0	
Rail Cars Bumping 6 times in during delivery	59.2		70.9	
Tank Farm Pump 1	30.8	30.8	30.8	
Tank Farm Pump 2	29.9	29.9	29.9	
Tank Farm Pump 3	30.2	30.2	30.2	
UP Train Locomotive Delivery and Pickup	56.1		67.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 2

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF-1502 Splitter Area 1	48.4	48.4	48.4	
XF-1502 Splitter Area 2	48.3	48.3	48.3	
XF-1504 Splitter Area 1	47.9	47.9	47.9	
XF-1504 Splitter Area 2	47.9	47.9	47.9	
XF - 1601	38.9	38.9	38.9	
XF - 1602	41.1	41.1	41.1	
XF 304, XF 321	54.3	54.3	54.3	
XF 313, XF 314	49.7	49.7	49.7	
XF 335-1, XF 335-2	51.4	51.4	51.4	
XF 503	56.2	56.2	56.2	
XF Module 1510	52.7	52.7	52.7	
XF Module 1519	53.4	53.4	53.4	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Receiver W-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 73.1 dB(A)			Ld 7-19 dB(A)		Leq,N 68.3 dB(A)		Le 19-22 dB(A)		CNEL 76.0 dB(A)		Lmax day hr dB(A)		Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	172.43	-55.7	3.8	-0.1	-2.3	0.00	0.0	0.3	-8.8	0.0	46.3	
Air Compressor C 1	Leq,D	110.0	5	170.44	-55.6	4.8	-14.0	-0.4	-0.39	0.0	9.5	0.0	0.0	53.9	
Air Compressor Pump	Leq,D	100.3		325.50	-61.2	5.2	-15.2	-1.7		0.0	6.4	0.0	0.0	33.7	
Blower F 401	Leq,D	113.0		206.77	-57.3	4.5	-4.5	-0.3	-0.73	0.0	0.0	0.0	0.0	54.6	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	511.82	-65.2	5.5	-13.8	-1.0	-0.54	0.0	0.0	0.0	0.0	23.6	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	162.49	-55.2	3.7	-20.2	-0.4		-7.8	0.0	0.0	0.0	24.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	164.52	-55.3	3.7	-19.5	-0.6		0.0	0.3	0.0	0.0	29.2	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	152.09	-54.6	3.6	-9.6	-0.3		4.2	0.6	0.0	0.0	50.4	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	154.11	-54.7	3.6	-15.7	-0.3		-5.8	0.0	0.0	0.0	37.7	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	163.52	-55.3	3.7	-20.6	-0.5		-5.3	0.0	0.0	0.0	25.8	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	143.41	-54.1	3.5	-7.5	-0.8		0.7	0.3	0.0	0.0	42.4	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	418.64	-63.4	5.2	-7.8	-2.2	-0.18	0.0	1.2	-7.0	0.0	38.8	
Construciton Control Room Max Day	Leq,D	123.7	5461	418.64	-63.4	5.2	-7.8	-2.2	-0.18	0.0	1.2	-1.0	0.0	55.5	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	749.40	-68.5	5.6	-14.4	-2.4		0.0	0.2	-1.0	0.0	43.2	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	724.03	-68.2	5.6	-16.5	-2.3		0.0	0.1	-1.0	0.0	41.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	309.09	-60.8	5.0	-8.1	-2.0	-0.45	0.0	0.6	-1.0	0.0	56.9	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	309.09	-60.8	5.0	-8.1	-2.0	-0.45	0.0	0.6	-7.0	0.0	40.2	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	533.47	-65.5	5.4	-8.0	-2.4	-0.20	0.0	1.0	-1.0	0.0	53.0	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	533.47	-65.5	5.4	-8.0	-2.4	-0.20	0.0	1.0	-7.0	0.0	36.3	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	115.91	-52.3	3.3	-2.5	-1.5		0.0	0.9	-1.0	0.0	70.7	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	433.59	-63.7	5.3	-5.9	-3.0	-0.58	0.0	0.4	-7.0	0.0	38.4	
Construction Unit B Max Day	Leq,D	123.7	20817	433.59	-63.7	5.3	-5.9	-3.0	-0.58	0.0	0.4	-1.0	0.0	55.2	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	231.44	-58.3	4.4	-16.9	-0.6	-0.64	-7.8	7.6	0.0	0.0	25.6	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	219.43	-57.8	4.2	-3.1	-1.1	-0.40	0.2	0.3	0.0	0.0	40.1	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	255.78	-59.1	4.0	-19.7	-0.8	-0.56	-7.8	0.0	0.0	0.0	16.6	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	238.26	-58.5	4.0	-7.5	-1.3	-0.51	0.2	0.5	0.0	0.0	37.6	
Cooling Tower M 512	Leq,D	95.7		227.00	-58.1	4.8	-5.3	-1.1	-0.77	0.0	0.3	0.0	0.0	35.6	
Cooling Tower M 513	Leq,D	95.7		225.65	-58.1	4.8	-5.6	-1.1	-0.78	0.0	0.5	0.0	0.0	35.5	
Cooling Tower M 514	Leq,D	95.7		228.49	-58.2	4.8	-5.1	-1.1	-0.77	0.0	0.3	0.0	0.0	35.6	
Heater # 5-Heater	Leq,D	91.1	13	512.84	-65.2	5.5	-18.9	-1.0	-0.63	0.0	0.5	0.0	0.0	14.3	
Heater # 5-Heater	Leq,D	91.1	13	508.46	-65.1	5.5	-19.2	-1.0	-0.57	0.0	0.1	0.0	0.0	13.7	
Heater # 5-Heater	Leq,D	91.1	13	503.98	-65.0	5.5	-19.0	-1.0	-0.53	0.0	0.1	0.0	0.0	14.0	
Hydro Heater H-402	Leq,D	98.1		201.19	-57.1	4.7	-7.7	-0.4	-0.83	0.0	0.0	0.0	0.0	36.9	
Motor & Pump P 56A/B	Leq,D	93.7		188.98	-56.5	4.6	-5.7	-1.1	-0.49	0.0	0.3	0.0	0.0	34.8	
Motor & Pump P 120/121	Leq,D	96.2	2	170.48	-55.6	4.6	-5.3	-0.7	-0.04	0.0	0.0	0.0	0.0	39.2	
Motor & Pump P 211/212	Leq,D	93.7		178.73	-56.0	4.7	-13.3	-0.7	-0.29	0.0	0.0	0.0	0.0	28.0	
Motor & Pump P 215/214	Leq,D	94.6		176.42	-55.9	4.7	-18.7	-0.8	-0.17	0.0	0.0	0.0	0.0	23.7	
Motor & Pump P 216	Leq,D	98.3		172.49	-55.7	4.5	-11.8	-0.8	-0.13	0.0	0.0	0.0	0.0	34.3	
Motor & Pump P 217/218	Leq,D	93.7		177.75	-56.0	5.0	-16.6	-0.8	-0.22	0.0	0.0	0.0	0.0	25.1	
Motor & Pump P 300	Leq,D	97.1	2	158.59	-55.0	4.6	-8.6	-0.5	-0.18	0.0	0.1	0.0	0.0	37.4	
Motor & Pump P 301	Leq,D	102.1	2	158.58	-55.0	4.6	-7.1	-0.6	-0.18	0.0	0.5	0.0	0.0	44.3	
Motor & Pump P 302	Leq,D	97.1	2	158.62	-55.0	4.6	-5.4	-0.7	-0.20	0.0	0.0	0.0	0.0	40.4	
Motor & Pump P 303	Leq,D	97.1	2	158.56	-55.0	4.5	-2.3	-1.1	-0.38	0.0	0.0	0.0	0.0	42.8	
Motor & Pump P 305	Leq,D	97.5	2	158.61	-55.0	4.5	-2.3	-1.1	-0.38	0.0	0.0	0.0	0.0	43.2	
Motor & Pump P 306	Leq,D	112.6	4	159.33	-55.0	4.3	-6.5	-0.7	-0.19	0.0	0.3	0.0	0.0	54.7	
Motor & Pump P 307	Leq,D	102.1	2	158.65	-55.0	4.6	-3.7	-0.6	-0.40	0.0	0.2	0.0	0.0	47.2	
Motor & Pump P 309	Leq,D	97.5	2	158.68	-55.0	4.5	-2.3	-1.1	-0.38	0.0	4.6	0.0	0.0	47.8	
Motor & Pump P 312	Leq,D	101.5	2	160.89	-55.1	4.8	-14.0	-0.5	-0.12	0.0	1.5	0.0	0.0	38.0	
Motor & Pump P 313	Leq,D	101.5	2	161.20	-55.1	4.8	-12.0	-0.5	-0.43	0.0	1.0	0.0	0.0	39.1	
Motor & Pump P 315	Leq,D	102.9	2	162.24	-55.2	4.6	-11.5	-0.5	-0.43	0.0	1.2	0.0	0.0	41.1	
Motor & Pump P 316	Leq,D	102.9	2	162.68	-55.2	4.6	-4.7	-0.8	-0.41	0.0	0.0	0.0	0.0	46.4	
Motor & Pump P 317	Leq,D	102.9	2	163.25	-55.2	4.5	-2.5	-1.2	-0.40	0.0	0.0	0.0	0.0	48.1	
Motor & Pump P 318	Leq,D	100.2	1	162.31	-55.2	4.9	-11.1	-0.5	-0.44	0.0	0.0	0.0	0.0	37.8	
Motor & Pump P 319	Leq,D	100.2	1	162.01	-55.2	4.9	-13.6	-0.5	-0.44	0.0	0.0	0.0	0.0	35.3	
Motor & Pump P 327	Leq,D	111.2	3	159.68	-55.1	4.5	-1.4	-1.6	-0.37	0.0	4.4	0.0	0.0	61.7	
Motor & Pump P 328	Leq,D	109.9	5	158.91	-55.0	4.3	-1.3	-1.0	-0.38	0.0	4.5	0.0	0.0	61.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 329	Leq,D	110.2	5	159.11	-55.0	4.3	-1.0	-0.9	-0.37	0.0	4.5	0.0	0.0	61.6	
Motor & Pump P 451	Leq,D	93.7		204.50	-57.2	4.7	-16.5	-1.0	-0.76	0.0	4.0	0.0	0.0	26.9	
Motor & Pump P 453	Leq,D	93.7		211.33	-57.5	4.7	-15.3	-0.8	-0.79	0.0	2.2	0.0	0.0	26.1	
Motor & Pump P 454	Leq,D	93.7		202.96	-57.1	4.7	-16.6	-0.9	-0.76	0.0	3.5	0.0	0.0	26.4	
Motor & Pump P 457	Leq,D	93.7		211.91	-57.5	4.7	-18.1	-1.1	-0.80	0.0	1.3	0.0	0.0	22.2	
Motor & Pump P 458	Leq,D	93.7		205.59	-57.3	4.7	-16.4	-1.0	-0.76	0.0	4.0	0.0	0.0	27.0	
Motor & Pump P 459	Leq,D	93.7		202.63	-57.1	4.7	-16.4	-0.9	-0.76	0.0	3.4	0.0	0.0	26.4	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		210.75	-57.5	4.8	-11.9	-0.8	-0.64	0.0	2.7	0.0	0.0	33.0	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		210.45	-57.5	4.8	-12.4	-0.8	-0.64	0.0	2.5	0.0	0.0	32.2	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		216.12	-57.7	4.9	-2.7	-1.6	-0.71	0.0	0.5	0.0	0.0	38.1	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		216.10	-57.7	4.9	0.0	-1.9	-0.70	0.0	0.3	0.0	0.0	40.3	
Motor & Pump P 1601 A	Leq,D	96.3	2	238.51	-58.5	4.7	-12.8	-0.9	-0.31	0.0	3.1	0.0	0.0	31.6	
Motor & Pump P 1601 B	Leq,D	96.3	2	240.04	-58.6	4.7	-12.8	-0.9	-0.31	0.0	3.2	0.0	0.0	31.6	
Motor & Pump P 1602 A	Leq,D	96.3	2	241.23	-58.6	4.7	-12.8	-0.9	-0.31	0.0	3.2	0.0	0.0	31.6	
Motor & Pump P 1602 B	Leq,D	96.5	2	242.71	-58.7	4.7	-12.7	-0.9	-0.31	0.0	3.2	0.0	0.0	31.8	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	219.81	-57.8	5.0	-12.4	-0.8	-0.77	0.0	1.5	0.0	0.0	31.2	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	218.93	-57.8	4.9	-12.9	-0.8	-0.16	0.0	1.4	0.0	0.0	31.2	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	218.57	-57.8	4.9	-11.1	-1.0	-0.16	0.0	2.7	0.0	0.0	34.1	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	210.74	-57.5	4.8	-12.7	-0.8	-0.64	0.0	1.5	0.0	0.0	31.5	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	210.44	-57.5	4.8	-14.1	-0.9	-0.16	0.0	2.5	0.0	0.0	31.5	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	224.64	-58.0	5.0	-8.7	-1.3	-0.89	0.0	0.1	0.0	0.0	32.5	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	222.36	-57.9	5.0	-8.9	-1.2	-0.84	0.0	0.2	0.0	0.0	32.5	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	218.37	-57.8	4.9	-9.4	-1.2	-0.76	0.0	0.3	0.0	0.0	32.4	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	220.14	-57.8	5.0	-9.2	-1.2	-0.80	0.0	0.2	0.0	0.0	32.4	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	185.31	-56.4	4.4	-0.5	-0.5		0.0	0.1	-36.5	0.0	45.3	
Tank Farm Pump 1	Leq,D	99.0	3	488.82	-64.8	5.5	-8.4	-2.2		0.0	1.3	0.0	0.0	30.5	
Tank Farm Pump 2	Leq,D	99.0	3	510.10	-65.1	5.6	-7.7	-2.3		0.0	1.1	0.0	0.0	30.5	
Tank Farm Pump 3	Leq,D	99.0	3	516.07	-65.2	5.6	-7.6	-2.4		0.0	2.0	0.0	0.0	31.4	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	45.72	-44.2	2.9	0.0	-0.7		0.0	0.0	-14.8	0.0	55.7	
XF-1502 Splitter Area 1	Leq,D	104.5		220.76	-57.9	3.0	-9.1	-0.9	0.00	-3.2	0.7	0.0	0.0	37.1	
XF-1502 Splitter Area 2	Leq,D	104.5		221.29	-57.9	3.0	-12.0	-0.7		-2.8	1.1	0.0	0.0	35.2	
XF-1504 Splitter Area 1	Leq,D	104.5		225.12	-58.0	3.0	-8.8	-0.9	-0.02	-3.3	0.7	0.0	0.0	37.1	
XF-1504 Splitter Area 2	Leq,D	104.5		225.65	-58.1	3.0	-11.8	-0.7		-2.8	1.1	0.0	0.0	35.2	
XF 304, XF 321	Leq,D	110.5	56	152.74	-54.7	3.0	-2.5	-0.6	-0.21	-2.9	0.5	0.0	0.0	53.0	
XF 313, XF 314	Leq,D	113.0	18	155.50	-54.8	3.0	-4.7	-0.5	-0.02	-3.4	0.9	0.0	0.0	53.4	
XF 335-1, XF 335-2	Leq,D	113.4	54	153.31	-54.7	3.0	-0.7	-0.9	-0.29	-3.2	0.6	0.0	0.0	57.2	
XF 503	Leq,D	113.0	21	178.38	-56.0	3.0	-8.8	-0.8	-0.32	-3.2	0.3	0.0	0.0	47.2	
XF - 1601	Leq,D	96.6		241.24	-58.6	3.0	-7.9	-0.4		-1.1	0.2	0.0	0.0	31.8	
XF - 1602	Leq,D	96.6		247.07	-58.8	3.0	-7.9	-0.4		-1.1	0.2	0.0	0.0	31.6	
XF Module 1510	Leq,D	108.3		216.13	-57.7	3.0	-11.2	-0.7	-0.04	-2.8	0.8	0.0	0.0	39.7	
XF Module 1519	Leq,D	109.0		215.27	-57.7	3.0	-12.0	-0.7	-0.04	-2.8	1.0	0.0	0.0	39.8	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								8.3			39.9	
Crude Operatoin Truck Truck Traffic	Leq,D		520								9.9			16.7	
Receiver W-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.9 dB(A) Ld 7-19 dB(A) Leq,N 66.1 dB(A) Le 19-22 dB(A) CNEL 73.5 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	287.02	-60.2	4.8	-11.5	-1.3	-0.28	0.0	1.6	-8.8	0.0	33.4	
Air Compressor C 1	Leq,D	110.0	5	186.48	-56.4	4.9	-18.7	-0.4	-0.41	0.0	4.9	0.0	0.0	43.8	
Air Compressor Pump	Leq,D	100.3		371.08	-62.4	5.3	-20.5	-1.9	-0.75	0.0	0.0	0.0	0.0	20.1	
Blower F 401	Leq,D	113.0		262.47	-59.4	4.8	-10.3	-0.3	-0.94	0.0	0.0	0.0	0.0	46.9	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	561.52	-66.0	5.5	-21.5	-1.4	-0.49	0.0	0.0	0.0	0.0	14.8	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	212.24	-57.5	4.1	-19.8	-0.5		-7.7	0.0	0.0	0.0	23.2	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	211.54	-57.5	4.1	-18.6	-0.7	-0.16	0.0	0.0	0.0	0.0	27.7	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	201.09	-57.1	4.0	-6.7	-0.6	-0.04	2.4	0.2	0.0	0.0	48.7	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	207.18	-57.3	4.1	-20.8	-0.6		-7.7	0.0	0.0	0.0	28.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	211.97	-57.5	4.1	-19.7	-0.5	-0.03	-7.7	0.0	0.0	0.0	22.4	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	196.89	-56.9	3.9	-11.4	-0.8		2.6	0.8	0.0	0.0	38.7
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	448.55	-64.0	5.3	-4.6	-2.8	-0.43	0.0	0.0	-7.0	0.0	39.4
Construciton Control Room Max Day	Leq,D	123.7	5461	448.55	-64.0	5.3	-4.6	-2.8	-0.43	0.0	0.0	-1.0	0.0	56.2
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	772.43	-68.7	5.6	-10.1	-4.0		0.0	0.1	-1.0	0.0	45.5
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	721.90	-68.2	5.5	-6.4	-4.4		0.0	0.4	-1.0	0.0	49.7
Construction H2 Plant Max Day	Leq,D	123.7	9281	339.61	-61.6	5.1	-6.4	-2.2	-0.49	0.0	0.1	-1.0	0.0	57.2
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	339.61	-61.6	5.1	-6.4	-2.2	-0.49	0.0	0.1	-7.0	0.0	40.5
Construction PreTreat Building Max Day	Leq,D	123.7	6360	558.41	-65.9	5.4	-4.7	-3.3	-0.06	0.0	0.0	-1.0	0.0	54.2
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	558.41	-65.9	5.4	-4.7	-3.3	-0.06	0.0	0.0	-7.0	0.0	37.5
Construction Unit A Construction Max Day	Leq,D	123.7	3185	147.12	-54.3	3.8	-4.4	-1.6		0.0	0.2	-1.0	0.0	66.4
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	480.20	-64.6	5.3	-8.0	-2.9	-0.60	0.0	0.0	-7.0	0.0	35.3
Construction Unit B Max Day	Leq,D	123.7	20817	480.20	-64.6	5.3	-8.0	-2.9	-0.60	0.0	0.0	-1.0	0.0	52.0
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	267.21	-59.5	4.6	-19.3	-0.8	-0.49	-7.8	5.5	0.0	0.0	20.1
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	256.98	-59.2	4.5	-4.4	-1.3	-0.67	1.7	0.0	0.0	0.0	38.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	288.80	-60.2	4.2	-18.4	-0.8	-0.82	-7.8	0.0	0.0	0.0	16.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	273.49	-59.7	4.3	-10.4	-0.8	-0.13	1.5	0.0	0.0	0.0	35.4
Cooling Tower M 512	Leq,D	95.7		265.67	-59.5	5.0	-12.1	-1.0	-0.75	0.0	0.2	0.0	0.0	27.5
Cooling Tower M 513	Leq,D	95.7		264.57	-59.4	4.9	-3.3	-1.2	-0.73	0.0	0.0	0.0	0.0	36.0
Cooling Tower M 514	Leq,D	95.7		266.98	-59.5	5.0	-14.4	-1.0	-0.75	0.0	0.7	0.0	0.0	25.7
Heater # 5-Heater	Leq,D	91.1	13	561.85	-66.0	5.5	-21.2	-1.3	-0.60	0.0	0.6	0.0	0.0	11.2
Heater # 5-Heater	Leq,D	91.1	13	557.85	-65.9	5.5	-21.8	-1.3	-0.49	0.0	0.0	0.0	0.0	10.1
Heater # 5-Heater	Leq,D	91.1	13	553.77	-65.9	5.5	-22.6	-1.5	-0.50	0.0	0.0	0.0	0.0	9.1
Hydro Heater H-402	Leq,D	98.1		244.17	-58.7	4.9	-15.7	-0.5	-0.29	0.0	0.1	0.0	0.0	27.8
Motor & Pump P 56A/B	Leq,D	93.7		227.98	-58.2	4.8	-3.0	-1.7	-0.58	0.0	1.0	0.0	0.0	36.2
Motor & Pump P 120/121	Leq,D	96.2	2	192.71	-56.7	4.8	-5.1	-0.8	-0.12	0.0	0.0	0.0	0.0	38.3
Motor & Pump P 211/212	Leq,D	93.7		229.90	-58.2	5.0	-20.1	-1.1	-0.23	0.0	0.0	0.0	0.0	19.0
Motor & Pump P 215/214	Leq,D	94.6		226.07	-58.1	5.0	-20.3	-1.1	-0.23	0.0	0.1	0.0	0.0	20.0
Motor & Pump P 216	Leq,D	98.3		224.97	-58.0	4.8	-20.6	-1.1	-0.17	0.0	0.0	0.0	0.0	23.3
Motor & Pump P 217/218	Leq,D	93.7		228.38	-58.2	5.2	-21.0	-1.2	-0.23	0.0	0.0	0.0	0.0	18.3
Motor & Pump P 300	Leq,D	97.1	2	181.23	-56.2	4.7	-3.5	-1.2	-0.44	0.0	1.4	0.0	0.0	41.9
Motor & Pump P 301	Leq,D	102.1	2	182.08	-56.2	4.8	-3.6	-1.2	-0.44	0.0	1.2	0.0	0.0	46.6
Motor & Pump P 302	Leq,D	97.1	2	180.35	-56.1	4.7	-3.5	-1.2	-0.44	0.0	0.4	0.0	0.0	40.9
Motor & Pump P 303	Leq,D	97.1	2	179.54	-56.1	4.7	-4.3	-0.9	-0.33	0.0	0.1	0.0	0.0	40.2
Motor & Pump P 305	Leq,D	97.5	2	178.82	-56.0	4.7	-6.8	-0.7	-0.31	0.0	1.2	0.0	0.0	39.5
Motor & Pump P 306	Leq,D	112.6	4	174.74	-55.8	4.4	-1.7	-2.2	-0.43	0.0	0.1	0.0	0.0	57.0
Motor & Pump P 307	Leq,D	102.1	2	184.59	-56.3	4.8	-6.1	-0.7	-0.43	0.0	0.0	0.0	0.0	43.3
Motor & Pump P 309	Leq,D	97.5	2	178.12	-56.0	4.7	-7.1	-0.6	-0.31	0.0	6.9	0.0	0.0	44.9
Motor & Pump P 312	Leq,D	101.5	2	197.05	-56.9	5.0	-3.2	-0.8	-0.50	0.0	0.7	0.0	0.0	45.8
Motor & Pump P 313	Leq,D	101.5	2	198.13	-56.9	5.0	-4.4	-0.8	-0.50	0.0	0.9	0.0	0.0	44.8
Motor & Pump P 315	Leq,D	102.9	2	201.95	-57.1	4.9	-16.3	-0.7	-0.17	0.0	4.7	0.0	0.0	38.3
Motor & Pump P 316	Leq,D	102.9	2	203.21	-57.2	4.9	-9.4	-0.7	-0.50	0.0	1.7	0.0	0.0	41.6
Motor & Pump P 317	Leq,D	102.9	2	204.55	-57.2	4.8	-14.5	-0.6	-0.54	0.0	4.1	0.0	0.0	38.9
Motor & Pump P 318	Leq,D	100.2	1	201.09	-57.1	5.1	-12.9	-0.7	-0.15	0.0	2.6	0.0	0.0	37.0
Motor & Pump P 319	Leq,D	100.2	1	200.17	-57.0	5.1	-8.7	-0.8	-0.15	0.0	2.0	0.0	0.0	40.7
Motor & Pump P 327	Leq,D	111.2	3	170.84	-55.6	4.6	-2.9	-1.7	-0.14	0.0	3.1	0.0	0.0	58.5
Motor & Pump P 328	Leq,D	109.9	5	177.40	-56.0	4.4	-3.8	-1.0	-0.37	0.0	5.4	0.0	0.0	58.6
Motor & Pump P 329	Leq,D	110.2	5	176.08	-55.9	4.4	-2.4	-1.1	-0.41	0.0	4.5	0.0	0.0	59.4
Motor & Pump P 451	Leq,D	93.7		249.45	-58.9	4.9	-10.5	-1.2	-1.23	0.0	3.7	0.0	0.0	30.5
Motor & Pump P 453	Leq,D	93.7		259.21	-59.3	5.0	-6.6	-1.6	-1.33	0.0	0.4	0.0	0.0	30.2
Motor & Pump P 454	Leq,D	93.7		248.03	-58.9	4.9	-10.7	-1.2	-1.26	0.0	3.8	0.0	0.0	30.4
Motor & Pump P 457	Leq,D	93.7		260.23	-59.3	5.0	-6.7	-1.6	-1.29	0.0	0.4	0.0	0.0	30.1
Motor & Pump P 458	Leq,D	93.7		250.33	-59.0	4.9	-10.2	-1.2	-1.20	0.0	3.2	0.0	0.0	30.2
Motor & Pump P 459	Leq,D	93.7		247.39	-58.9	4.9	-10.5	-1.2	-1.22	0.0	0.2	0.0	0.0	27.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		243.94	-58.7	5.0	-10.5	-1.2	-0.26	0.0	0.0	0.0	0.0	30.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		243.04	-58.7	5.0	-12.6	-1.1	-0.26	0.0	0.0	0.0	0.0	28.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		235.26	-58.4	5.0	-13.9	-0.9	-0.35	0.0	1.0	0.0	0.0	27.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		234.79	-58.4	5.0	-9.8	-1.0	-0.34	0.0	0.4	0.0	0.0	31.2
Motor & Pump P 1601 A	Leq,D	96.3	2	267.95	-59.6	4.9	-4.4	-1.7	-1.01	0.0	0.1	0.0	0.0	34.6
Motor & Pump P 1601 B	Leq,D	96.3	2	269.30	-59.6	4.9	-3.9	-1.9	-0.82	0.0	0.1	0.0	0.0	35.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1602 A	Leq,D	96.3	2	270.43	-59.6	4.9	-4.0	-1.9	-0.70	0.0	0.1	0.0	0.0	35.0	
Motor & Pump P 1602 B	Leq,D	96.5	2	271.74	-59.7	4.9	-3.9	-1.9	-0.57	0.0	0.0	0.0	0.0	35.4	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	251.54	-59.0	5.1	-12.0	-1.2	-0.40	0.0	0.0	0.0	0.0	29.1	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	249.00	-58.9	5.1	-12.4	-1.1	-0.85	0.0	0.0	0.0	0.0	28.4	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	247.77	-58.9	5.1	-11.3	-1.1	-0.85	0.0	0.0	0.0	0.0	29.5	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	242.74	-58.7	5.0	-13.9	-1.1	-0.26	0.0	0.0	0.0	0.0	27.8	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	241.80	-58.7	5.0	-12.3	-1.1	-0.34	0.0	0.0	0.0	0.0	29.3	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	251.25	-59.0	5.1	-6.9	-1.4	-0.73	0.0	0.0	0.0	0.0	33.3	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	249.22	-58.9	5.1	-6.2	-1.5	-0.77	0.0	0.0	0.0	0.0	34.0	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	245.71	-58.8	5.0	-4.2	-1.8	-0.39	0.0	0.0	0.0	0.0	36.2	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	247.28	-58.9	5.1	-5.1	-1.6	-0.52	0.0	0.0	0.0	0.0	35.3	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	271.48	-59.7	5.0	-9.6	-0.5	-0.26	0.0	0.0	-36.5	0.0	33.2	
Tank Farm Pump 1	Leq,D	99.0	3	508.04	-65.1	5.6	-20.5	-2.1		0.0	0.0	0.0	0.0	16.8	
Tank Farm Pump 2	Leq,D	99.0	3	528.46	-65.5	5.6	-20.0	-2.1		0.0	1.9	0.0	0.0	19.0	
Tank Farm Pump 3	Leq,D	99.0	3	534.24	-65.5	5.6	-19.5	-2.1		0.0	1.9	0.0	0.0	19.3	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	150.95	-54.6	2.7	-4.7	-1.9	-0.01	0.0	0.8	-14.8	0.0	40.0	
XF-1502 Splitter Area 1	Leq,D	104.5		249.14	-58.9	3.0	-0.6	-1.9	-0.70	-4.5	0.0	0.0	0.0	40.9	
XF-1502 Splitter Area 2	Leq,D	104.5		250.98	-59.0	3.0	-4.0	-2.0	-0.69	-4.2	0.0	0.0	0.0	37.7	
XF-1504 Splitter Area 1	Leq,D	104.5		253.00	-59.1	3.0	-3.5	-1.4	-0.01	-3.9	0.0	0.0	0.0	39.7	
XF-1504 Splitter Area 2	Leq,D	104.5		254.81	-59.1	3.0	-1.1	-2.1	-0.90	-4.5	0.0	0.0	0.0	39.8	
XF 304, XF 321	Leq,D	110.5	56	177.63	-56.0	3.0	-5.2	-0.5	-0.11	-2.3	0.4	0.0	0.0	49.7	
XF 313, XF 314	Leq,D	113.0	18	163.70	-55.3	3.0	-4.3	-0.6		-3.6	0.3	0.0	0.0	52.6	
XF 335-1, XF 335-2	Leq,D	113.4	54	171.68	-55.7	3.0	-3.2	-0.9	-0.22	-3.1	0.6	0.0	0.0	53.9	
XF 503	Leq,D	113.0	21	222.23	-57.9	3.0	-4.1	-2.4	-0.76	-3.7	0.0	0.0	0.0	47.2	
XF - 1601	Leq,D	96.6		270.82	-59.6	3.0	-0.2	-0.9		-2.6	0.0	0.0	0.0	36.3	
XF - 1602	Leq,D	96.6		276.00	-59.8	3.0	-2.2	-0.7		-2.1	0.0	0.0	0.0	34.7	
XF Module 1510	Leq,D	108.3		247.87	-58.9	3.0	-4.2	-1.3	-0.05	-3.8	0.0	0.0	0.0	43.1	
XF Module 1519	Leq,D	109.0		245.13	-58.8	3.0	-3.4	-2.1	-0.71	-4.3	0.0	0.0	0.0	42.7	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								4.3			36.0	
Crude Operatoin Truck Truck Traffic	Leq,D		520								7.0			19.2	
Receiver W-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 60.4 dB(A) Le 19-22 dB(A) CNEL 68.6 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	387.42	-62.8	5.2	-6.8	-2.5	-0.29	0.0	0.1	-8.8	0.0	33.2	
Air Compressor C 1	Leq,D	110.0	5	244.93	-58.8	5.1	-20.7	-0.6	-0.01	0.0	5.5	0.0	0.0	40.6	
Air Compressor Pump	Leq,D	100.3		437.29	-63.8	5.4	-19.2	-2.0	-0.59	0.0	0.2	0.0	0.0	20.3	
Blower F 401	Leq,D	113.0		341.05	-61.6	5.1	-11.3	-0.4	-1.36	0.0	0.0	0.0	0.0	43.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	626.37	-66.9	5.6	-15.8	-1.1		0.0	0.0	0.0	0.0	20.3	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	290.36	-60.3	4.6	-17.4	-0.5	-0.16	-7.0	0.0	0.0	0.0	24.0	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	288.06	-60.2	4.6	-16.9	-0.8	-0.45	0.0	0.1	0.0	0.0	26.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	279.63	-59.9	4.5	-2.3	-1.6	-0.08	1.2	0.3	0.0	0.0	48.5	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	287.65	-60.2	4.6	-16.8	-0.6		-7.8	0.0	0.0	0.0	29.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	289.31	-60.2	4.6	-19.1	-0.6	-0.29	-7.8	0.0	0.0	0.0	20.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	278.49	-59.9	4.5	-3.5	-1.9		3.4	0.7	0.0	0.0	43.8	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	498.43	-64.9	5.4	-8.2	-3.3	0.00	0.0	0.9	-7.0	0.0	35.8	
Construciton Control Room Max Day	Leq,D	123.7	5461	498.43	-64.9	5.4	-8.2	-3.3	0.00	0.0	0.9	-1.0	0.0	52.5	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	808.53	-69.1	5.6	-14.5	-3.4		0.0	1.1	-1.0	0.0	42.3	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	732.80	-68.3	5.0	-7.1	-4.4		0.0	0.7	-1.0	0.0	48.5	
Construction H2 Plant Max Day	Leq,D	123.7	9281	394.84	-62.9	5.2	-7.5	-3.0	-0.11	0.0	0.8	-1.0	0.0	55.2	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	394.84	-62.9	5.2	-7.5	-3.0	-0.11	0.0	0.8	-7.0	0.0	38.5	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	600.37	-66.6	5.5	-12.1	-2.4		0.0	0.8	-1.0	0.0	48.0	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	600.37	-66.6	5.5	-12.1	-2.4		0.0	0.8	-7.0	0.0	31.2	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	223.24	-58.0	4.6	-2.7	-2.9		0.0	0.7	-1.0	0.0	64.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	544.12	-65.7	5.4	-7.1	-3.7	-0.14	0.0	0.5	-7.0	0.0	35.2	
Construction Unit B Max Day	Leq,D	123.7	20817	544.13	-65.7	5.4	-7.1	-3.7	-0.14	0.0	0.5	-1.0	0.0	51.9	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	331.35	-61.4	4.9	-20.1	-0.9	-0.54	-7.6	1.5	0.0	0.0	13.6	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	323.24	-61.2	4.8	-9.2	-1.0	-0.81	2.7	0.1	0.0	0.0	33.2	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	349.22	-61.9	4.5	-21.1	-1.1	-0.38	-7.7	0.1	0.0	0.0	13.1	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	336.75	-61.5	4.6	-7.5	-1.3	-0.58	2.6	0.0	0.0	0.0	36.9	
Cooling Tower M 512	Leq,D	95.7		332.10	-61.4	5.2	-20.9	-1.3	-0.77	0.0	1.5	0.0	0.0	18.1	
Cooling Tower M 513	Leq,D	95.7		331.27	-61.4	5.2	-20.8	-1.3	-0.81	0.0	0.1	0.0	0.0	16.6	
Cooling Tower M 514	Leq,D	95.7		333.19	-61.4	5.2	-21.0	-1.3	-0.74	0.0	1.3	0.0	0.0	17.8	
Heater # 5-Heater	Leq,D	91.1	13	626.07	-66.9	5.6	-20.0	-1.3		0.0	3.3	0.0	0.0	14.7	
Heater # 5-Heater	Leq,D	91.1	13	622.48	-66.9	5.6	-19.9	-1.3		0.0	0.0	0.0	0.0	11.6	
Heater # 5-Heater	Leq,D	91.1	13	618.83	-66.8	5.6	-18.9	-1.3		0.0	0.0	0.0	0.0	12.7	
Hydro Heater H-402	Leq,D	98.1		315.33	-61.0	5.1	-8.5	-0.5	-0.43	0.0	0.0	0.0	0.0	32.9	
Motor & Pump P 56A/B	Leq,D	93.7		297.75	-60.5	5.1	-8.8	-1.4	-0.79	0.0	1.3	0.0	0.0	28.6	
Motor & Pump P 120/121	Leq,D	96.2	2	254.77	-59.1	5.1	-13.3	-0.8	-0.33	0.0	3.5	0.0	0.0	31.2	
Motor & Pump P 211/212	Leq,D	93.7		307.56	-60.8	5.2	-16.5	-1.4	-0.64	0.0	0.2	0.0	0.0	19.8	
Motor & Pump P 215/214	Leq,D	94.6		303.04	-60.6	5.2	-11.0	-1.5	-0.72	0.0	0.0	0.0	0.0	26.0	
Motor & Pump P 216	Leq,D	98.3		303.79	-60.6	5.1	-17.1	-1.2	-0.26	0.0	0.0	0.0	0.0	24.2	
Motor & Pump P 217/218	Leq,D	93.7		305.81	-60.7	5.4	-15.5	-1.4	-0.67	0.0	0.1	0.0	0.0	20.9	
Motor & Pump P 300	Leq,D	97.1	2	245.38	-58.8	5.1	-12.1	-0.7	-0.64	0.0	0.2	0.0	0.0	30.1	
Motor & Pump P 301	Leq,D	102.1	2	246.69	-58.8	5.1	-15.0	-0.8	-0.52	0.0	1.7	0.0	0.0	33.7	
Motor & Pump P 302	Leq,D	97.1	2	243.99	-58.7	5.1	-12.0	-0.7	-0.61	0.0	1.1	0.0	0.0	31.3	
Motor & Pump P 303	Leq,D	97.1	2	242.78	-58.7	5.0	-11.7	-0.7	-0.57	0.0	5.3	0.0	0.0	35.7	
Motor & Pump P 305	Leq,D	97.5	2	241.63	-58.7	5.0	-11.9	-0.7	-0.53	0.0	7.3	0.0	0.0	38.0	
Motor & Pump P 306	Leq,D	112.6	4	234.79	-58.4	4.8	-10.1	-1.0	-0.29	0.0	3.5	0.0	0.0	51.2	
Motor & Pump P 307	Leq,D	102.1	2	250.50	-59.0	5.1	-16.0	-0.8	-0.42	0.0	7.9	0.0	0.0	38.9	
Motor & Pump P 309	Leq,D	97.5	2	240.49	-58.6	5.0	-12.2	-0.7	-0.49	0.0	9.1	0.0	0.0	39.6	
Motor & Pump P 312	Leq,D	101.5	2	268.14	-59.6	5.3	-3.4	-1.1	-0.68	0.0	1.6	0.0	0.0	43.6	
Motor & Pump P 313	Leq,D	101.5	2	269.60	-59.6	5.3	-4.2	-1.0	-0.69	0.0	1.8	0.0	0.0	43.1	
Motor & Pump P 315	Leq,D	102.9	2	274.78	-59.8	5.2	-3.1	-1.3	-0.69	0.0	1.1	0.0	0.0	44.3	
Motor & Pump P 316	Leq,D	102.9	2	276.43	-59.8	5.2	-3.8	-1.3	-0.71	0.0	0.2	0.0	0.0	42.7	
Motor & Pump P 317	Leq,D	102.9	2	278.14	-59.9	5.1	-4.1	-1.1	-0.65	0.0	0.2	0.0	0.0	42.5	
Motor & Pump P 318	Leq,D	100.2	1	273.42	-59.7	5.3	-3.9	-1.0	-0.70	0.0	1.9	0.0	0.0	42.2	
Motor & Pump P 319	Leq,D	100.2	1	272.20	-59.7	5.3	-4.4	-0.9	-0.70	0.0	2.1	0.0	0.0	41.8	
Motor & Pump P 327	Leq,D	111.2	3	228.45	-58.2	5.0	-17.4	-1.1	-0.06	0.0	6.6	0.0	0.0	46.0	
Motor & Pump P 328	Leq,D	109.9	5	239.22	-58.6	4.8	-11.0	-0.7	-0.42	0.0	6.7	0.0	0.0	50.8	
Motor & Pump P 329	Leq,D	110.2	5	237.03	-58.5	4.8	-8.2	-0.9	-0.31	0.0	1.5	0.0	0.0	48.6	
Motor & Pump P 451	Leq,D	93.7		321.57	-61.1	5.2	-13.3	-1.3	-0.54	0.0	0.0	0.0	0.0	22.6	
Motor & Pump P 453	Leq,D	93.7		332.70	-61.4	5.2	-9.4	-1.6	-0.26	0.0	0.6	0.0	0.0	26.7	
Motor & Pump P 454	Leq,D	93.7		320.35	-61.1	5.2	-12.1	-1.3	-0.58	0.0	0.0	0.0	0.0	23.7	
Motor & Pump P 457	Leq,D	93.7		333.95	-61.5	5.2	-3.8	-2.1	-1.42	0.0	0.4	0.0	0.0	30.4	
Motor & Pump P 458	Leq,D	93.7		322.26	-61.2	5.2	-13.9	-1.3	-0.50	0.0	0.8	0.0	0.0	22.8	
Motor & Pump P 459	Leq,D	93.7		319.55	-61.1	5.2	-13.1	-1.3	-0.55	0.0	0.0	0.0	0.0	22.8	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		308.08	-60.8	5.2	-11.8	-1.3	-0.60	0.0	0.1	0.0	0.0	27.0	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		306.82	-60.7	5.2	-16.9	-1.3	-0.33	0.0	0.1	0.0	0.0	22.4	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		289.37	-60.2	5.2	-6.5	-1.9	-0.11	0.0	0.3	0.0	0.0	32.1	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		288.59	-60.2	5.2	-6.6	-1.9	-0.07	0.0	0.3	0.0	0.0	32.1	
Motor & Pump P 1601 A	Leq,D	96.3	2	327.11	-61.3	5.1	-12.6	-1.5	-0.38	0.0	2.3	0.0	0.0	27.9	
Motor & Pump P 1601 B	Leq,D	96.3	2	328.22	-61.3	5.1	-8.8	-1.6	-0.41	0.0	0.1	0.0	0.0	29.5	
Motor & Pump P 1602 A	Leq,D	96.3	2	329.20	-61.3	5.1	-11.4	-1.6	-0.37	0.0	0.1	0.0	0.0	26.8	
Motor & Pump P 1602 B	Leq,D	96.5	2	330.27	-61.4	5.1	-19.3	-1.6		0.0	0.6	0.0	0.0	19.8	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	313.91	-60.9	5.3	-16.4	-1.3	-0.54	0.0	0.3	0.0	0.0	23.0	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	310.31	-60.8	5.2	-13.6	-1.6	-0.49	0.0	0.1	0.0	0.0	25.5	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	308.54	-60.8	5.2	-14.2	-1.5	-0.49	0.0	0.1	0.0	0.0	24.9	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	306.10	-60.7	5.2	-17.6	-1.3	-0.43	0.0	0.2	0.0	0.0	22.0	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	304.77	-60.7	5.2	-18.8	-1.3	-0.47	0.0	0.2	0.0	0.0	20.8	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	309.66	-60.8	5.3	-13.1	-1.3	-0.39	0.0	0.1	0.0	0.0	26.0	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	308.02	-60.8	5.3	-15.2	-1.4	-0.40	0.0	0.1	0.0	0.0	23.9	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	305.24	-60.7	5.2	-8.5	-2.0	-0.35	0.0	0.0	0.0	0.0	30.0	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	306.50	-60.7	5.2	-9.5	-1.9	-0.35	0.0	0.1	0.0	0.0	29.2	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	368.28	-62.3	5.3	-5.3	-0.8	-0.24	0.0	0.0	-36.5	0.0	34.9	
Tank Farm Pump 1	Leq,D	99.0	3	545.84	-65.7	5.6	-21.2	-2.2		0.0	4.9	0.0	0.0	20.4	
Tank Farm Pump 2	Leq,D	99.0	3	564.82	-66.0	5.6	-19.2	-2.2		0.0	0.9	0.0	0.0	18.1	
Tank Farm Pump 3	Leq,D	99.0	3	570.24	-66.1	5.6	-17.5	-2.3		0.0	1.4	0.0	0.0	20.1	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	234.93	-58.4	3.2	-5.6	-2.7	-0.05	0.0	0.2	-14.8	0.0	34.3	
XF-1502 Splitter Area 1	Leq,D	104.5		309.11	-60.8	3.0	-4.0	-2.3	-0.10	-4.2	0.3	0.0	0.0	36.4	
XF-1502 Splitter Area 2	Leq,D	104.5		311.80	-60.9	3.0	-1.4	-1.9	-0.04	-4.1	0.1	0.0	0.0	39.3	
XF-1504 Splitter Area 1	Leq,D	104.5		312.22	-60.9	3.0	-4.1	-2.2	-0.14	-4.2	0.2	0.0	0.0	36.2	
XF-1504 Splitter Area 2	Leq,D	104.5		314.88	-61.0	3.0	-4.1	-2.3	-0.01	-4.2	0.3	0.0	0.0	36.2	
XF 304, XF 321	Leq,D	110.5	56	243.85	-58.7	3.0	-5.3	-0.8	-0.29	-2.7	0.3	0.0	0.0	46.0	
XF 313, XF 314	Leq,D	113.0	18	220.53	-57.9	3.0	-5.1	-0.8		-3.7	0.4	0.0	0.0	48.9	
XF 335-1, XF 335-2	Leq,D	113.4	54	234.43	-58.4	3.0	-4.3	-1.4	-0.32	-3.1	1.3	0.0	0.0	50.2	
XF 503	Leq,D	113.0	21	295.64	-60.4	3.3	-1.0	-3.2	-0.79	-4.0	0.0	0.0	0.0	46.9	
XF - 1601	Leq,D	96.6		329.83	-61.4	3.0	-1.5	-1.3		-3.2	0.1	0.0	0.0	32.4	
XF - 1602	Leq,D	96.6		334.07	-61.5	3.0	-3.5	-0.8		-1.7	0.0	0.0	0.0	32.1	
XF Module 1510	Leq,D	108.3		310.54	-60.8	3.0	-3.9	-1.5	-0.36	-3.8	0.1	0.0	0.0	41.0	
XF Module 1519	Leq,D	109.0		306.62	-60.7	3.0	-2.2	-1.7	-0.36	-4.0	0.1	0.0	0.0	43.2	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								4.7			34.2	
Crude Operatoin Truck Truck Traffic	Leq,D		520								6.4			19.6	
Receiver N-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.3 dB(A) Ld 7-19 dB(A) Leq,N 59.5 dB(A) Le 19-22 dB(A) CNEL 67.2 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	355.08	-62.0	5.2	-8.3	-2.9	-0.13	0.0	1.2	-8.8	0.0	33.4	
Air Compressor C 1	Leq,D	110.0	5	192.79	-56.7	4.9	-20.8	-0.5		0.0	9.9	0.0	0.0	46.8	
Air Compressor Pump	Leq,D	100.3		380.29	-62.6	5.3	-22.8	-2.7	-0.36	0.0	2.7	0.0	0.0	19.9	
Blower F 401	Leq,D	113.0		301.82	-60.6	4.9	-5.7	-0.5	-2.33	0.0	0.0	0.0	0.0	48.8	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	564.19	-66.0	5.5	-14.8	-1.0		0.0	0.3	0.0	0.0	22.5	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	254.21	-59.1	4.4	-22.4	-0.8	-0.74	-4.3	0.0	0.0	0.0	21.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	250.13	-59.0	4.4	-21.1	-0.9	-1.27	0.0	7.3	0.0	0.0	30.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	244.99	-58.8	4.3	-9.3	-0.7	-0.36	0.1	0.4	0.0	0.0	42.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	254.72	-59.1	4.4	-20.1	-0.6	-0.22	-7.8	0.0	0.0	0.0	27.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	252.28	-59.0	4.4	-21.2	-0.7	-1.14	-7.8	0.0	0.0	0.0	18.2	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	247.85	-58.9	4.3	-10.6	-0.7		4.1	0.7	0.0	0.0	39.4	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	426.40	-63.6	5.2	-14.1	-1.5		0.0	0.0	-7.0	0.0	32.0	
Construciton Control Room Max Day	Leq,D	123.7	5461	426.40	-63.6	5.2	-14.1	-1.5		0.0	0.0	-1.0	0.0	48.8	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	726.17	-68.2	5.4	-15.4	-2.9		0.0	0.9	-1.0	0.0	42.5	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	642.77	-67.2	4.8	-7.4	-4.0		0.0	0.3	-1.0	0.0	49.3	
Construction H2 Plant Max Day	Leq,D	123.7	9281	329.01	-61.3	5.0	-7.1	-2.5	-0.05	0.0	0.9	-1.0	0.0	57.6	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	329.01	-61.3	5.0	-7.1	-2.5	-0.05	0.0	0.9	-7.0	0.0	40.9	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	522.06	-65.3	5.2	-14.5	-1.9		0.0	0.5	-1.0	0.0	46.6	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	522.06	-65.3	5.2	-14.5	-1.9		0.0	0.5	-7.0	0.0	29.9	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	191.24	-56.6	4.3	-11.0	-1.3		0.0	1.1	-1.0	0.0	59.2	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	480.68	-64.6	5.3	-7.8	-2.8	-0.05	0.0	0.3	-7.0	0.0	36.3	
Construction Unit B Max Day	Leq,D	123.7	20817	480.69	-64.6	5.3	-7.8	-2.8	-0.05	0.0	0.3	-1.0	0.0	53.0	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	277.02	-59.8	4.6	-11.0	-0.8	-0.37	-6.6	0.1	0.0	0.0	24.1	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	271.47	-59.7	4.6	-10.7	-0.7	-0.35	3.6	0.6	0.0	0.0	35.2	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	290.46	-60.3	4.2	-12.8	-0.8	-0.23	-6.9	0.1	0.0	0.0	23.9	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	281.26	-60.0	4.3	-2.9	-1.5	-0.33	3.3	0.6	0.0	0.0	44.2	
Cooling Tower M 512	Leq,D	95.7		279.94	-59.9	5.1	-21.6	-1.1	-0.22	0.0	0.6	0.0	0.0	18.5	
Cooling Tower M 513	Leq,D	95.7		279.42	-59.9	5.0	-21.3	-1.1	-0.28	0.0	0.6	0.0	0.0	18.7	
Cooling Tower M 514	Leq,D	95.7		280.73	-60.0	5.0	-21.5	-1.1	-0.16	0.0	0.6	0.0	0.0	18.7	
Heater # 5-Heater	Leq,D	91.1	13	563.34	-66.0	5.5	-19.4	-1.1		0.0	3.9	0.0	0.0	17.0	
Heater # 5-Heater	Leq,D	91.1	13	560.17	-66.0	5.5	-19.5	-1.1		0.0	0.0	0.0	0.0	13.0	
Heater # 5-Heater	Leq,D	91.1	13	556.95	-65.9	5.5	-18.3	-1.2		0.0	0.4	0.0	0.0	14.6	
Hydro Heater H-402	Leq,D	98.1		269.16	-59.6	5.0	-13.4	-0.4	-0.69	0.0	0.0	0.0	0.0	29.0	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 56A/B	Leq,D	93.7		251.41	-59.0	4.9	-18.8	-1.1	-0.25	0.0	1.8	0.0	0.0	21.2
Motor & Pump P 120/121	Leq,D	96.2	2	204.85	-57.2	4.8	-12.1	-0.7		0.0	2.7	0.0	0.0	33.9
Motor & Pump P 211/212	Leq,D	93.7		269.44	-59.6	5.1	-18.5	-1.1	-0.92	0.0	0.7	0.0	0.0	19.4
Motor & Pump P 215/214	Leq,D	94.6		264.42	-59.4	5.1	-19.4	-1.2	-0.77	0.0	2.9	0.0	0.0	21.8
Motor & Pump P 216	Leq,D	98.3		267.41	-59.5	5.0	-22.8	-1.7	-1.24	0.0	0.0	0.0	0.0	18.0
Motor & Pump P 217/218	Leq,D	93.7		267.53	-59.5	5.3	-18.7	-1.1	-0.90	0.0	0.9	0.0	0.0	19.7
Motor & Pump P 300	Leq,D	97.1	2	198.61	-57.0	4.8	-12.3	-0.7	-0.42	0.0	1.2	0.0	0.0	32.9
Motor & Pump P 301	Leq,D	102.1	2	200.22	-57.0	4.9	-12.1	-0.7	-0.45	0.0	0.9	0.0	0.0	37.6
Motor & Pump P 302	Leq,D	97.1	2	196.91	-56.9	4.8	-12.4	-0.6	-0.38	0.0	1.4	0.0	0.0	33.1
Motor & Pump P 303	Leq,D	97.1	2	195.46	-56.8	4.8	-12.3	-0.6	-0.35	0.0	1.5	0.0	0.0	33.3
Motor & Pump P 305	Leq,D	97.5	2	194.05	-56.8	4.8	-12.4	-0.6	-0.31	0.0	1.7	0.0	0.0	33.8
Motor & Pump P 306	Leq,D	112.6	4	185.48	-56.4	4.5	-17.6	-0.7	-0.16	0.0	4.1	0.0	0.0	46.4
Motor & Pump P 307	Leq,D	102.1	2	204.86	-57.2	4.9	-11.8	-0.7	-0.56	0.0	0.2	0.0	0.0	36.9
Motor & Pump P 309	Leq,D	97.5	2	192.63	-56.7	4.7	-12.6	-0.6	-0.28	0.0	1.6	0.0	0.0	33.7
Motor & Pump P 312	Leq,D	101.5	2	225.93	-58.1	5.1	-12.8	-0.8	-0.94	0.0	1.6	0.0	0.0	35.6
Motor & Pump P 313	Leq,D	101.5	2	227.66	-58.1	5.1	-16.2	-0.7	-0.77	0.0	3.6	0.0	0.0	34.4
Motor & Pump P 315	Leq,D	102.9	2	233.82	-58.4	5.0	-18.4	-0.7	-0.57	0.0	3.5	0.0	0.0	33.4
Motor & Pump P 316	Leq,D	102.9	2	235.75	-58.4	5.0	-18.3	-0.7	-0.59	0.0	2.7	0.0	0.0	32.7
Motor & Pump P 317	Leq,D	102.9	2	237.70	-58.5	5.0	-18.2	-0.7	-0.58	0.0	2.3	0.0	0.0	32.2
Motor & Pump P 318	Leq,D	100.2	1	232.05	-58.3	5.2	-18.6	-0.7	-0.55	0.0	2.1	0.0	0.0	29.3
Motor & Pump P 319	Leq,D	100.2	1	230.61	-58.2	5.2	-18.6	-0.7	-0.55	0.0	3.6	0.0	0.0	30.9
Motor & Pump P 327	Leq,D	111.2	3	177.79	-56.0	4.7	-20.5	-1.0	-0.02	0.0	5.0	0.0	0.0	43.4
Motor & Pump P 328	Leq,D	109.9	5	190.99	-56.6	4.5	-13.5	-0.6	-0.26	0.0	2.8	0.0	0.0	46.3
Motor & Pump P 329	Leq,D	110.2	5	188.27	-56.5	4.5	-15.4	-0.7	-0.20	0.0	3.7	0.0	0.0	45.6
Motor & Pump P 451	Leq,D	93.7		276.02	-59.8	5.0	-17.2	-1.2	-0.64	0.0	3.0	0.0	0.0	23.0
Motor & Pump P 453	Leq,D	93.7		287.94	-60.2	5.1	-18.2	-1.2	-0.69	0.0	1.2	0.0	0.0	19.6
Motor & Pump P 454	Leq,D	93.7		275.09	-59.8	5.0	-17.3	-1.2	-0.64	0.0	2.7	0.0	0.0	22.4
Motor & Pump P 457	Leq,D	93.7		289.37	-60.2	5.1	-18.1	-1.2	-0.71	0.0	1.3	0.0	0.0	19.8
Motor & Pump P 458	Leq,D	93.7		276.43	-59.8	5.0	-17.0	-1.2	-0.63	0.0	0.3	0.0	0.0	20.4
Motor & Pump P 459	Leq,D	93.7		274.16	-59.8	5.0	-17.3	-1.2	-0.64	0.0	2.6	0.0	0.0	22.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		255.27	-59.1	5.0	-14.2	-1.1	-0.25	0.0	0.9	0.0	0.0	27.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		253.76	-59.1	5.0	-14.0	-1.1	-0.22	0.0	1.2	0.0	0.0	28.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		229.00	-58.2	5.0	-3.0	-2.6	-0.08	0.0	1.3	0.0	0.0	37.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		228.03	-58.2	5.0	-3.0	-2.6	-0.06	0.0	1.3	0.0	0.0	37.9
Motor & Pump P 1601 A	Leq,D	96.3	2	268.48	-59.6	4.9	-2.3	-3.0	-0.48	0.0	1.4	0.0	0.0	37.1
Motor & Pump P 1601 B	Leq,D	96.3	2	269.30	-59.6	4.9	-2.3	-3.1	-0.42	0.0	0.1	0.0	0.0	35.9
Motor & Pump P 1602 A	Leq,D	96.3	2	270.10	-59.6	4.9	-4.2	-2.4	-0.17	0.0	0.7	0.0	0.0	35.5
Motor & Pump P 1602 B	Leq,D	96.5	2	270.90	-59.6	4.9	-9.0	-1.3		0.0	5.4	0.0	0.0	36.8
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	259.01	-59.3	5.1	-4.9	-1.8	-0.26	0.0	0.1	0.0	0.0	35.6
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	254.70	-59.1	5.1	-3.0	-2.0	-0.27	0.0	0.4	0.0	0.0	37.8
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	252.55	-59.0	5.1	-3.3	-2.0	-0.28	0.0	0.3	0.0	0.0	37.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	252.70	-59.0	5.0	-13.0	-1.1	-0.16	0.0	2.9	0.0	0.0	31.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	251.10	-59.0	5.0	-11.1	-1.2	-0.12	0.0	2.0	0.0	0.0	32.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	251.48	-59.0	5.1	-3.2	-2.8	-0.50	0.0	1.5	0.0	0.0	37.5
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	250.31	-59.0	5.1	-3.3	-2.6	-0.42	0.0	1.3	0.0	0.0	37.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	248.36	-58.9	5.0	-3.2	-2.4	-0.28	0.0	1.3	0.0	0.0	37.8
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	249.25	-58.9	5.1	-3.7	-2.4	-0.34	0.0	0.6	0.0	0.0	36.5
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	337.61	-61.6	5.3	-7.7	-0.8	-0.17	0.0	0.3	-36.5	0.0	33.6
Tank Farm Pump 1	Leq,D	99.0	3	466.25	-64.4	5.3	-21.6	-2.0		0.0	2.9	0.0	0.0	19.2
Tank Farm Pump 2	Leq,D	99.0	3	484.29	-64.7	5.3	-18.4	-2.0		0.0	0.4	0.0	0.0	19.7
Tank Farm Pump 3	Leq,D	99.0	3	489.49	-64.8	5.3	-17.9	-2.0		0.0	0.8	0.0	0.0	20.4
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	275.22	-59.8	3.9	-5.7	-2.8	-0.04	0.0	0.8	-14.8	0.0	34.0
XF-1502 Splitter Area 1	Leq,D	104.5		252.43	-59.0	3.0	-2.2	-1.5	0.00	-4.0	1.2	0.0	0.0	42.0
XF-1502 Splitter Area 2	Leq,D	104.5		255.70	-59.1	3.0	-0.1	-1.8	-0.08	-4.4	0.9	0.0	0.0	42.9
XF-1504 Splitter Area 1	Leq,D	104.5		254.65	-59.1	3.0	-0.1	-1.8	-0.50	-4.4	0.9	0.0	0.0	42.5
XF-1504 Splitter Area 2	Leq,D	104.5		257.88	-59.2	3.0	-0.1	-1.8	-0.48	-4.4	1.0	0.0	0.0	42.5
XF 304, XF 321	Leq,D	110.5	56	199.45	-57.0	3.0	-8.4	-0.4	-0.46	-2.1	0.3	0.0	0.0	45.3
XF 313, XF 314	Leq,D	113.0	18	170.45	-55.6	3.0	-12.4	-0.5		-3.1	1.0	0.0	0.0	45.3
XF 335-1, XF 335-2	Leq,D	113.4	54	187.85	-56.5	3.0	-7.0	-0.8	-0.33	-2.7	1.2	0.0	0.0	50.2
XF 503	Leq,D	113.0	21	253.37	-59.1	3.0	-5.3	-2.5	-0.94	-3.7	0.0	0.0	0.0	44.5
XF - 1601	Leq,D	96.6		271.04	-59.7	3.0	-0.2	-0.9		-2.6	0.5	0.0	0.0	36.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
XF - 1602	Leq,D	96.6		274.21	-59.8	3.0	-0.2	-0.9		-2.6	0.5	0.0	0.0	36.6	
XF Module 1510	Leq,D	108.3		256.22	-59.2	3.0	-2.0	-1.6	-0.09	-4.1	1.2	0.0	0.0	45.5	
XF Module 1519	Leq,D	109.0		251.49	-59.0	3.0	-1.7	-1.7	-0.09	-4.2	1.2	0.0	0.0	46.5	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								6.7			38.1	
Crude Operatoin Truck Truck Traffic	Leq,D		520								9.4			23.5	
Receiver N-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 58.0 dB(A) Ld 7-19 dB(A) Leq,N 53.1 dB(A) Le 19-22 dB(A) CNEL 60.8 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	344.71	-61.7	4.4	-17.8	-1.1	-0.09	0.0	2.0	-8.8	0.0	26.0	
Air Compressor C 1	Leq,D	110.0	5	177.01	-56.0	4.4	-21.8	-0.6		0.0	4.4	0.0	0.0	40.5	
Air Compressor Pump	Leq,D	100.3		336.03	-61.5	3.9	-24.2	-3.5		0.0	3.3	0.0	0.0	18.3	
Blower F 401	Leq,D	113.0		287.50	-60.2	3.0	-12.8	-0.4	-2.32	0.0	0.0	0.0	0.0	40.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	506.74	-65.1	3.3	-22.4	-1.4		0.0	3.3	0.0	0.0	16.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	249.40	-58.9	4.1	-21.2	-0.7	-0.10	3.6	0.0	0.0	0.0	31.6	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	243.63	-58.7	4.0	-15.6	-0.7	0.00	0.0	0.1	0.0	0.0	29.6	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	243.23	-58.7	4.1	-13.8	-0.5	-0.55	0.1	0.0	0.0	0.0	37.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	253.76	-59.1	4.1	-21.7	-0.8	-0.98	-7.8	0.0	0.0	0.0	24.5	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	246.62	-58.8	4.1	-22.2	-0.8	-0.02	-7.8	0.0	0.0	0.0	18.2	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	250.82	-59.0	4.2	-16.2	-0.7	-1.39	-4.2	0.0	0.0	0.0	23.1	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	358.42	-62.1	3.6	-23.3	-2.4		0.0	10.8	-7.0	0.0	32.6	
Construciton Control Room Max Day	Leq,D	123.7	5461	358.42	-62.1	3.6	-23.3	-2.4		0.0	10.8	-1.0	0.0	49.3	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	639.42	-67.1	3.9	-23.6	-3.6		0.0	0.2	-1.0	0.0	32.5	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	545.37	-65.7	3.5	-18.4	-2.4		0.0	0.6	-1.0	0.0	40.2	
Construction H2 Plant Max Day	Leq,D	123.7	9281	274.77	-59.8	3.3	-23.6	-2.3		0.0	6.8	-1.0	0.0	47.1	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	274.77	-59.8	3.3	-23.6	-2.3		0.0	6.8	-7.0	0.0	30.4	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	442.81	-63.9	3.7	-22.8	-2.5		0.0	2.0	-1.0	0.0	39.2	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	442.81	-63.9	3.7	-22.8	-2.5		0.0	2.0	-7.0	0.0	22.5	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	204.76	-57.2	4.4	-15.5	-1.1	-0.03	0.0	0.3	-1.0	0.0	53.4	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	424.21	-63.5	3.8	-23.2	-2.7		0.0	10.7	-7.0	0.0	31.1	
Construction Unit B Max Day	Leq,D	123.7	20817	424.21	-63.5	3.8	-23.2	-2.7		0.0	10.7	-1.0	0.0	47.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	244.47	-58.8	2.4	-23.1	-1.3	-0.84	-2.4	2.2	0.0	0.0	16.1	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	243.28	-58.7	2.3	-18.1	-0.7	-0.18	2.2	9.3	0.0	0.0	34.0	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	249.91	-58.9	2.0	-23.5	-1.4		-3.7	2.0	0.0	0.0	17.1	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	246.56	-58.8	2.0	-19.2	-0.8	-0.13	4.2	10.7	0.0	0.0	38.7	
Cooling Tower M 512	Leq,D	95.7		250.25	-59.0	3.3	-23.4	-1.2	-0.86	0.0	2.3	0.0	0.0	17.0	
Cooling Tower M 513	Leq,D	95.7		250.24	-59.0	3.3	-23.0	-1.2	-0.86	0.0	2.2	0.0	0.0	17.2	
Cooling Tower M 514	Leq,D	95.7		250.54	-59.0	3.3	-23.6	-1.2	-0.86	0.0	2.5	0.0	0.0	16.8	
Heater # 5-Heater	Leq,D	91.1	13	505.16	-65.1	3.3	-23.4	-1.7		0.0	5.2	0.0	0.0	12.3	
Heater # 5-Heater	Leq,D	91.1	13	502.61	-65.0	3.3	-23.5	-1.7		0.0	3.1	0.0	0.0	10.3	
Heater # 5-Heater	Leq,D	91.1	13	500.03	-65.0	3.3	-23.7	-1.8		0.0	1.9	0.0	0.0	8.9	
Hydro Heater H-402	Leq,D	98.1		249.15	-58.9	2.2	-15.5	-0.6		0.0	2.5	0.0	0.0	27.8	
Motor & Pump P 56A/B	Leq,D	93.7		233.48	-58.4	4.1	-18.4	-1.2	-1.12	0.0	0.0	0.0	0.0	18.7	
Motor & Pump P 120/121	Leq,D	96.2	2	189.72	-56.6	4.4	-19.8	-0.7		0.0	3.8	0.0	0.0	27.4	
Motor & Pump P 211/212	Leq,D	93.7		260.11	-59.3	4.8	-20.5	-1.3	-0.56	0.0	0.0	0.0	0.0	16.8	
Motor & Pump P 215/214	Leq,D	94.6		255.09	-59.1	4.8	-20.4	-1.3	-0.45	0.0	0.0	0.0	0.0	18.1	
Motor & Pump P 216	Leq,D	98.3		260.56	-59.3	4.8	-18.7	-1.3	-0.55	0.0	0.0	0.0	0.0	23.2	
Motor & Pump P 217/218	Leq,D	93.7		258.25	-59.2	5.1	-21.3	-1.4	-0.52	0.0	0.0	0.0	0.0	16.3	
Motor & Pump P 300	Leq,D	97.1	2	189.34	-56.5	4.6	-19.9	-0.6		0.0	1.6	0.0	0.0	26.2	
Motor & Pump P 301	Leq,D	102.1	2	191.01	-56.6	4.6	-19.9	-0.7		0.0	1.4	0.0	0.0	31.0	
Motor & Pump P 302	Leq,D	97.1	2	187.57	-56.5	4.6	-19.9	-0.6		0.0	1.9	0.0	0.0	26.6	
Motor & Pump P 303	Leq,D	97.1	2	186.11	-56.4	4.5	-19.0	-0.6		0.0	1.6	0.0	0.0	27.2	
Motor & Pump P 305	Leq,D	97.5	2	184.64	-56.3	4.5	-19.2	-0.6		0.0	1.9	0.0	0.0	27.7	
Motor & Pump P 306	Leq,D	112.6	4	175.64	-55.9	4.2	-20.2	-0.8		0.0	2.4	0.0	0.0	42.3	
Motor & Pump P 307	Leq,D	102.1	2	195.83	-56.8	4.6	-19.3	-0.6		0.0	0.2	0.0	0.0	30.1	
Motor & Pump P 309	Leq,D	97.5	2	183.17	-56.2	4.5	-19.5	-0.6		0.0	1.9	0.0	0.0	27.6	
Motor & Pump P 312	Leq,D	101.5	2	217.61	-57.7	4.8	-20.3	-0.8		0.0	0.0	0.0	0.0	27.5	
Motor & Pump P 313	Leq,D	101.5	2	219.38	-57.8	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	27.5	
Motor & Pump P 315	Leq,D	102.9	2	225.84	-58.1	4.8	-20.1	-0.8		0.0	0.0	0.0	0.0	28.7	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 316	Leq,D	102.9	2	227.82	-58.1	4.8	-16.7	-0.8		0.0	0.0	0.0	0.0	32.1	
Motor & Pump P 317	Leq,D	102.9	2	229.78	-58.2	4.7	-16.9	-0.8		0.0	0.0	0.0	0.0	31.7	
Motor & Pump P 318	Leq,D	100.2	1	223.79	-58.0	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	26.1	
Motor & Pump P 319	Leq,D	100.2	1	222.31	-57.9	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	26.1	
Motor & Pump P 327	Leq,D	111.2	3	167.96	-55.5	4.4	-22.4	-1.1		0.0	3.0	0.0	0.0	39.7	
Motor & Pump P 328	Leq,D	109.9	5	181.37	-56.2	4.3	-19.7	-0.6		0.0	1.9	0.0	0.0	39.7	
Motor & Pump P 329	Leq,D	110.2	5	178.53	-56.0	4.3	-20.3	-0.7		0.0	1.8	0.0	0.0	39.2	
Motor & Pump P 451	Leq,D	93.7		256.05	-59.2	3.5	-19.7	-1.6		0.0	1.1	0.0	0.0	17.8	
Motor & Pump P 453	Leq,D	93.7		267.73	-59.5	3.5	-20.8	-1.7		0.0	1.1	0.0	0.0	16.2	
Motor & Pump P 454	Leq,D	93.7		255.63	-59.1	3.5	-18.6	-1.4		0.0	5.4	0.0	0.0	23.4	
Motor & Pump P 457	Leq,D	93.7		269.26	-59.6	3.5	-20.7	-1.7		0.0	1.1	0.0	0.0	16.2	
Motor & Pump P 458	Leq,D	93.7		256.05	-59.2	3.5	-20.3	-1.6		0.0	1.2	0.0	0.0	17.2	
Motor & Pump P 459	Leq,D	93.7		254.63	-59.1	3.4	-18.6	-1.4		0.0	5.3	0.0	0.0	23.3	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		227.59	-58.1	3.4	-20.2	-1.3		0.0	9.5	0.0	0.0	29.4	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		225.90	-58.1	3.4	-20.3	-1.3		0.0	9.4	0.0	0.0	29.4	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		193.37	-56.7	3.2	-21.9	-1.3	-0.07	0.0	8.5	0.0	0.0	27.1	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		192.22	-56.7	3.2	-21.9	-1.3	-0.05	0.0	8.7	0.0	0.0	27.5	
Motor & Pump P 1601 A	Leq,D	96.3	2	230.40	-58.2	3.1	-21.9	-1.4		0.0	16.6	0.0	0.0	34.4	
Motor & Pump P 1601 B	Leq,D	96.3	2	230.69	-58.3	3.1	-23.7	-1.9		0.0	14.7	0.0	0.0	30.3	
Motor & Pump P 1602 A	Leq,D	96.3	2	231.11	-58.3	3.1	-23.7	-1.9		0.0	16.2	0.0	0.0	31.7	
Motor & Pump P 1602 B	Leq,D	96.5	2	231.41	-58.3	3.1	-22.0	-1.4		0.0	17.5	0.0	0.0	35.5	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	227.74	-58.1	3.4	-21.2	-1.4	-0.80	0.0	11.0	0.0	0.0	29.5	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	222.89	-58.0	3.4	-21.3	-1.3	-0.70	0.0	11.0	0.0	0.0	29.7	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	220.45	-57.9	3.4	-21.3	-1.3	-0.64	0.0	10.9	0.0	0.0	29.8	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	224.47	-58.0	3.4	-20.7	-1.4		0.0	7.6	0.0	0.0	27.5	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	222.67	-57.9	3.3	-20.8	-1.4		0.0	7.2	0.0	0.0	27.2	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	216.16	-57.7	3.4	-23.1	-1.7	-0.19	0.0	1.8	0.0	0.0	18.7	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	215.85	-57.7	3.4	-21.9	-1.4	-0.54	0.0	10.2	0.0	0.0	28.4	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	215.45	-57.7	3.3	-21.4	-1.3	-0.54	0.0	10.9	0.0	0.0	29.7	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	215.66	-57.7	3.4	-21.5	-1.3	-0.54	0.0	10.4	0.0	0.0	29.0	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	332.79	-61.4	4.4	-14.5	-0.4	-0.16	0.0	1.6	-36.5	0.0	27.6	
Tank Farm Pump 1	Leq,D	99.0	3	385.68	-62.7	3.8	-24.2	-2.5		0.0	0.0	0.0	0.0	13.4	
Tank Farm Pump 2	Leq,D	99.0	3	402.03	-63.1	3.8	-23.0	-2.2		0.0	0.0	0.0	0.0	14.5	
Tank Farm Pump 3	Leq,D	99.0	3	406.81	-63.2	3.8	-22.9	-2.2		0.0	0.0	0.0	0.0	14.6	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	323.17	-61.2	4.1	-8.2	-3.1	-0.01	0.0	0.2	-14.8	0.0	29.5	
XF-1502 Splitter Area 1	Leq,D	104.5		219.28	-57.8	1.5	-16.3	-1.0	-0.53	-3.1	9.4	0.0	0.0	36.6	
XF-1502 Splitter Area 2	Leq,D	104.5		223.01	-58.0	1.5	-16.3	-1.0	-0.55	-3.1	9.4	0.0	0.0	36.4	
XF-1504 Splitter Area 1	Leq,D	104.5		219.84	-57.8	1.5	-22.5	-1.3	0.00	-3.5	1.3	0.0	0.0	22.2	
XF-1504 Splitter Area 2	Leq,D	104.5		223.55	-58.0	1.5	-16.4	-1.0	-0.58	-3.1	0.4	0.0	0.0	27.3	
XF 304, XF 321	Leq,D	110.5	56	193.34	-56.7	2.7	-16.4	-0.3	-0.11	-1.5	0.0	0.0	0.0	38.3	
XF 313, XF 314	Leq,D	113.0	18	163.51	-55.3	2.8	-19.5	-0.4		-2.6	0.2	0.0	0.0	38.3	
XF 335-1, XF 335-2	Leq,D	113.4	54	181.20	-56.2	2.8	-16.8	-0.4	-0.18	-1.7	0.8	0.0	0.0	41.8	
XF 503	Leq,D	113.0	21	240.96	-58.6	2.6	-18.3	-1.1	-0.14	-2.9	0.0	0.0	0.0	34.5	
XF - 1601	Leq,D	96.6		232.42	-58.3	0.6	-16.9	-0.4		-1.2	0.3	0.0	0.0	20.8	
XF - 1602	Leq,D	96.6		233.60	-58.4	0.6	-11.3	-0.4		-1.1	6.4	0.0	0.0	32.5	
XF Module 1510	Leq,D	108.3		226.16	-58.1	1.5	-16.2	-1.0	-0.44	-3.1	9.0	0.0	0.0	40.0	
XF Module 1519	Leq,D	109.0		220.82	-57.9	1.5	-16.2	-1.0	-0.44	-3.1	9.0	0.0	0.0	40.9	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								12.1			33.5	
Crude Operatoin Truck Truck Traffic	Leq,D		520								4.3			12.6	
Receiver N-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 68.5 dB(A) Ld 7-19 dB(A) Leq,N 58.0 dB(A) Le 19-22 dB(A) CNEL 68.4 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	253.47	-59.1	4.8	-13.5	-1.8	-0.08	0.0	0.1	-8.8	0.0	30.7	
Air Compressor C 1	Leq,D	110.0	5	85.65	-49.6	3.5	-22.4	-0.3		0.0	5.5	0.0	0.0	46.7	
Air Compressor Pump	Leq,D	100.3		250.52	-59.0	4.8	-23.9	-2.6		0.0	0.0	0.0	0.0	19.6	
Blower F 401	Leq,D	113.0		194.97	-56.8	4.4	-14.1	-0.2	-2.40	0.0	0.0	0.0	0.0	43.8	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	430.08	-63.7	5.0	-21.0	-1.1		0.0	0.3	0.0	0.0	18.1	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	158.40	-55.0	3.7	-23.0	-0.6		4.6	0.2	0.0	0.0	34.6	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	152.40	-54.7	3.5	-17.8	-0.5	-0.04	0.0	0.1	0.0	0.0	31.2	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	153.18	-54.7	3.5	-13.2	-0.4	-0.46	0.4	0.1	0.0	0.0	41.7
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	163.63	-55.3	3.7	-22.7	-0.6	-0.53	-7.8	0.2	0.0	0.0	27.7
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	155.51	-54.8	3.6	-23.6	-0.6	-0.01	-7.8	0.3	0.0	0.0	20.8
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	161.91	-55.2	3.6	-18.3	-0.5	-0.91	-5.6	0.0	0.0	0.0	23.5
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	290.08	-60.2	4.7	-22.7	-1.9		0.0	6.5	-7.0	0.0	32.2
Construciton Control Room Max Day	Leq,D	123.7	5461	290.08	-60.2	4.7	-22.7	-1.9		0.0	6.5	-1.0	0.0	48.9
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	596.65	-66.5	5.1	-23.5	-3.3		0.0	0.1	-1.0	0.0	34.6
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	531.95	-65.5	4.0	-9.8	-4.0		0.0	0.3	-1.0	0.0	47.7
Construction H2 Plant Max Day	Leq,D	123.7	9281	193.27	-56.7	4.1	-20.8	-1.3	0.00	0.0	3.9	-1.0	0.0	52.0
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	193.27	-56.7	4.1	-20.8	-1.3	0.00	0.0	3.9	-7.0	0.0	35.3
Construction PreTreat Building Max Day	Leq,D	123.7	6360	387.90	-62.8	4.9	-23.1	-2.4		0.0	0.3	-1.0	0.0	39.5
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	387.90	-62.8	4.9	-23.1	-2.4		0.0	0.3	-7.0	0.0	22.8
Construction Unit A Construction Max Day	Leq,D	123.7	3185	122.30	-52.7	3.4	-4.5	-1.3	-0.04	0.0	0.3	-1.0	0.0	67.9
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	344.67	-61.7	4.9	-22.0	-2.0	0.00	0.0	2.0	-7.0	0.0	27.1
Construction Unit B Max Day	Leq,D	123.7	20817	344.67	-61.7	4.9	-22.0	-2.0	0.00	0.0	2.0	-1.0	0.0	43.8
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	153.56	-54.7	3.5	-23.8	-0.9	-0.19	-3.8	0.5	0.0	0.0	18.4
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	151.46	-54.6	3.5	-16.9	-0.5	-0.01	3.8	0.2	0.0	0.0	33.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	161.79	-55.2	3.2	-23.4	-0.9		-5.3	0.8	0.0	0.0	19.8
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	156.27	-54.9	3.2	-17.7	-0.5	-0.27	4.5	0.9	0.0	0.0	35.8
Cooling Tower M 512	Leq,D	95.7		158.77	-55.0	4.2	-23.0	-0.7	-0.57	0.0	0.2	0.0	0.0	20.8
Cooling Tower M 513	Leq,D	95.7		158.66	-55.0	4.1	-22.3	-0.7	-0.43	0.0	0.2	0.0	0.0	21.5
Cooling Tower M 514	Leq,D	95.7		159.17	-55.0	4.2	-23.3	-0.8	-0.70	0.0	0.2	0.0	0.0	20.3
Heater # 5-Heater	Leq,D	91.1	13	429.04	-63.6	5.0	-22.1	-1.2		0.0	1.6	0.0	0.0	13.8
Heater # 5-Heater	Leq,D	91.1	13	426.03	-63.6	5.0	-22.1	-1.2		0.0	0.1	0.0	0.0	12.3
Heater # 5-Heater	Leq,D	91.1	13	422.97	-63.5	5.0	-21.1	-1.1		0.0	0.1	0.0	0.0	13.5
Hydro Heater H-402	Leq,D	98.1		156.60	-54.9	4.3	-15.0	-0.3		0.0	0.1	0.0	0.0	32.3
Motor & Pump P 56A/B	Leq,D	93.7		140.96	-54.0	4.1	-19.1	-0.8	-1.14	0.0	0.1	0.0	0.0	23.0
Motor & Pump P 120/121	Leq,D	96.2	2	98.06	-50.8	3.6	-19.4	-0.4		0.0	3.4	0.0	0.0	32.6
Motor & Pump P 211/212	Leq,D	93.7		168.15	-55.5	4.6	-22.3	-1.1	-0.55	0.0	0.3	0.0	0.0	19.0
Motor & Pump P 215/214	Leq,D	94.6		163.19	-55.2	4.6	-22.3	-1.1	-0.44	0.0	0.8	0.0	0.0	20.9
Motor & Pump P 216	Leq,D	98.3		168.98	-55.5	4.4	-21.2	-1.0	-0.55	0.0	0.0	0.0	0.0	24.4
Motor & Pump P 217/218	Leq,D	93.7		166.32	-55.4	4.9	-22.3	-1.1	-0.51	0.0	0.7	0.0	0.0	19.9
Motor & Pump P 300	Leq,D	97.1	2	99.18	-50.9	3.7	-17.6	-0.4		0.0	3.2	0.0	0.0	35.1
Motor & Pump P 301	Leq,D	102.1	2	100.78	-51.1	3.7	-12.2	-0.4		0.0	0.6	0.0	0.0	42.8
Motor & Pump P 302	Leq,D	97.1	2	97.48	-50.8	3.7	-21.8	-0.4		0.0	4.0	0.0	0.0	31.7
Motor & Pump P 303	Leq,D	97.1	2	96.10	-50.6	3.5	-21.7	-0.4		0.0	3.2	0.0	0.0	31.1
Motor & Pump P 305	Leq,D	97.5	2	94.69	-50.5	3.4	-21.7	-0.4		0.0	3.0	0.0	0.0	31.3
Motor & Pump P 306	Leq,D	112.6	4	86.13	-49.7	3.0	-21.3	-0.6		0.0	2.2	0.0	0.0	46.3
Motor & Pump P 307	Leq,D	102.1	2	105.43	-51.5	3.8	-10.3	-0.4		0.0	0.5	0.0	0.0	44.2
Motor & Pump P 309	Leq,D	97.5	2	93.29	-50.4	3.4	-21.7	-0.4		0.0	2.8	0.0	0.0	31.3
Motor & Pump P 312	Leq,D	101.5	2	126.60	-53.0	4.4	-18.0	-0.5		0.0	0.0	0.0	0.0	34.5
Motor & Pump P 313	Leq,D	101.5	2	128.34	-53.2	4.4	-18.3	-0.5		0.0	0.0	0.0	0.0	34.1
Motor & Pump P 315	Leq,D	102.9	2	134.70	-53.6	4.3	-18.8	-0.5		0.0	0.0	0.0	0.0	34.3
Motor & Pump P 316	Leq,D	102.9	2	136.64	-53.7	4.3	-19.0	-0.5		0.0	0.0	0.0	0.0	34.0
Motor & Pump P 317	Leq,D	102.9	2	138.55	-53.8	4.3	-19.3	-0.5		0.0	0.0	0.0	0.0	33.6
Motor & Pump P 318	Leq,D	100.2	1	132.64	-53.4	4.6	-19.0	-0.5		0.0	0.0	0.0	0.0	31.9
Motor & Pump P 319	Leq,D	100.2	1	131.19	-53.3	4.6	-18.9	-0.5		0.0	0.1	0.0	0.0	32.2
Motor & Pump P 327	Leq,D	111.2	3	79.08	-49.0	3.0	-22.3	-0.6		0.0	7.4	0.0	0.0	49.9
Motor & Pump P 328	Leq,D	109.9	5	91.54	-50.2	3.0	-21.6	-0.4		0.0	2.6	0.0	0.0	43.4
Motor & Pump P 329	Leq,D	110.2	5	88.84	-50.0	3.0	-21.8	-0.4		0.0	2.4	0.0	0.0	43.4
Motor & Pump P 451	Leq,D	93.7		163.51	-55.3	4.4	-19.0	-0.9		0.0	0.2	0.0	0.0	23.1
Motor & Pump P 453	Leq,D	93.7		175.22	-55.9	4.5	-20.1	-1.0		0.0	0.0	0.0	0.0	21.1
Motor & Pump P 454	Leq,D	93.7		163.08	-55.2	4.4	-18.1	-0.9		0.0	1.2	0.0	0.0	25.0
Motor & Pump P 457	Leq,D	93.7		176.75	-55.9	4.5	-20.0	-1.0		0.0	0.2	0.0	0.0	21.4
Motor & Pump P 458	Leq,D	93.7		163.52	-55.3	4.4	-19.6	-0.9		0.0	0.2	0.0	0.0	22.4
Motor & Pump P 459	Leq,D	93.7		162.08	-55.2	4.4	-18.1	-0.9		0.0	1.2	0.0	0.0	25.1
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		135.53	-53.6	4.1	-14.3	-0.8		0.0	1.3	0.0	0.0	32.9
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		133.85	-53.5	4.1	-14.3	-0.8		0.0	1.2	0.0	0.0	33.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		102.49	-51.2	3.6	-20.0	-0.6	-0.08	0.0	5.7	0.0	0.0	32.8	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		101.36	-51.1	3.5	-20.1	-0.6	-0.05	0.0	3.8	0.0	0.0	30.8	
Motor & Pump P 1601 A	Leq,D	96.3	2	141.00	-54.0	3.7	-21.4	-0.9	-0.07	0.0	2.2	0.0	0.0	25.8	
Motor & Pump P 1601 B	Leq,D	96.3	2	141.50	-54.0	3.7	-22.1	-1.0		0.0	1.9	0.0	0.0	24.7	
Motor & Pump P 1602 A	Leq,D	96.3	2	142.07	-54.0	3.7	-22.1	-1.0		0.0	2.4	0.0	0.0	25.3	
Motor & Pump P 1602 B	Leq,D	96.5	2	142.57	-54.1	3.7	-20.9	-0.9		0.0	2.0	0.0	0.0	26.4	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	136.33	-53.7	4.2	-14.7	-0.8	-0.68	0.0	1.7	0.0	0.0	32.7	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	131.53	-53.4	4.1	-14.7	-0.8	-0.65	0.0	1.5	0.0	0.0	32.6	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	129.13	-53.2	4.1	-14.7	-0.8	-0.64	0.0	1.4	0.0	0.0	32.7	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	132.46	-53.4	4.1	-14.3	-0.8		0.0	0.9	0.0	0.0	33.2	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	130.68	-53.3	4.1	-14.6	-0.8		0.0	0.9	0.0	0.0	33.0	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	125.61	-53.0	4.1	-20.4	-0.8	-0.19	0.0	0.0	0.0	0.0	26.0	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	125.05	-52.9	4.1	-19.6	-0.7	-0.56	0.0	2.1	0.0	0.0	28.6	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	124.24	-52.9	4.0	-14.8	-0.8	-0.56	0.0	1.1	0.0	0.0	32.4	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	124.62	-52.9	4.0	-20.1	-0.8	-0.58	0.0	3.4	0.0	0.0	29.3	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	240.49	-58.6	5.0	-13.5	-0.4	-0.26	0.0	0.0	-36.5	0.0	30.3	
Tank Farm Pump 1	Leq,D	99.0	3	334.07	-61.5	5.0	-23.9	-2.1		0.0	1.7	0.0	0.0	18.2	
Tank Farm Pump 2	Leq,D	99.0	3	352.98	-61.9	5.0	-23.8	-2.2		0.0	0.0	0.0	0.0	16.1	
Tank Farm Pump 3	Leq,D	99.0	3	358.41	-62.1	5.0	-23.8	-2.2		0.0	1.4	0.0	0.0	17.3	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	253.49	-59.1	4.0	-8.1	-2.5	-0.01	0.0	0.1	-14.8	0.0	32.0	
XF-1502 Splitter Area 1	Leq,D	104.5		128.29	-53.2	2.9	-14.3	-0.6	-0.58	-3.2	1.7	0.0	0.0	37.3	
XF-1502 Splitter Area 2	Leq,D	104.5		131.95	-53.4	2.9	-14.3	-0.6	-0.63	-3.2	1.7	0.0	0.0	37.0	
XF-1504 Splitter Area 1	Leq,D	104.5		129.30	-53.2	2.9	-14.5	-0.6	-0.58	-3.2	0.0	0.0	0.0	35.3	
XF-1504 Splitter Area 2	Leq,D	104.5		132.93	-53.5	2.9	-14.4	-0.6	-0.65	-3.2	0.9	0.0	0.0	35.9	
XF 304, XF 321	Leq,D	110.5	56	104.19	-51.3	3.0	-18.9	-0.2	-0.05	-1.5	0.1	0.0	0.0	41.6	
XF 313, XF 314	Leq,D	113.0	18	76.59	-48.7	3.0	-21.3	-0.2		-2.5	6.9	0.0	0.0	50.2	
XF 335-1, XF 335-2	Leq,D	113.4	54	92.81	-50.3	3.0	-18.9	-0.3	-0.08	-1.7	0.8	0.0	0.0	45.9	
XF 503	Leq,D	113.0	21	148.82	-54.4	3.0	-15.0	-0.8	-0.29	-3.2	0.1	0.0	0.0	42.4	
XF - 1601	Leq,D	96.6		143.50	-54.1	2.7	-17.1	-0.3		-1.2	0.0	0.0	0.0	26.6	
XF - 1602	Leq,D	96.6		145.49	-54.2	2.7	-12.2	-0.3		-1.2	0.0	0.0	0.0	31.4	
XF Module 1510	Leq,D	108.3		134.55	-53.6	2.9	-14.0	-0.6	-0.25	-3.2	1.5	0.0	0.0	41.0	
XF Module 1519	Leq,D	109.0		129.27	-53.2	2.9	-14.1	-0.6	-0.24	-3.2	1.5	0.0	0.0	42.0	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								15.9			39.9	
Crude Operatoin Truck Truck Traffic	Leq,D		520								13.0			24.2	
Receiver N-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 58.3 dB(A) Ld 7-19 dB(A) Leq,N 52.5 dB(A) Le 19-22 dB(A) CNEL 60.6 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	267.83	-59.5	4.8	-22.5	-1.9	-0.06	0.0	1.7	-8.8	0.0	22.8	
Air Compressor C 1	Leq,D	110.0	5	139.45	-53.9	4.1	-23.3	-0.6		0.0	4.5	0.0	0.0	40.9	
Air Compressor Pump	Leq,D	100.3		226.41	-58.1	4.7	-24.7	-2.9		0.0	2.7	0.0	0.0	21.9	
Blower F 401	Leq,D	113.0		218.78	-57.8	4.1	-23.4	-0.4	-0.42	0.0	2.5	0.0	0.0	37.6	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	382.34	-62.6	5.0	-23.0	-1.1		0.0	3.0	0.0	0.0	19.7	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	201.07	-57.1	3.7	-23.9	-0.8	-0.51	2.8	2.1	0.0	0.0	31.0	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	194.52	-56.8	3.6	-23.3	-1.1	-0.50	0.0	2.5	0.0	0.0	25.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	200.40	-57.0	3.6	-22.6	-0.7	-0.42	2.4	3.4	0.0	0.0	35.1	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	209.40	-57.4	3.7	-24.2	-0.9	-0.35	-7.8	1.9	0.0	0.0	25.6	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	197.85	-56.9	3.6	-24.3	-0.9	-0.50	-7.8	2.0	0.0	0.0	19.0	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	212.46	-57.5	3.7	-24.3	-1.2	-0.53	-7.7	2.0	0.0	0.0	14.9	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	230.02	-58.2	4.4	-22.5	-2.0		0.0	2.4	-7.0	0.0	30.1	
Construciton Control Room Max Day	Leq,D	123.7	5461	230.02	-58.2	4.4	-22.5	-2.0		0.0	2.4	-1.0	0.0	46.9	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	514.52	-65.2	5.0	-23.8	-3.1		0.0	1.5	-1.0	0.0	37.2	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	440.54	-63.9	3.9	-10.0	-3.5		0.0	0.4	-1.0	0.0	49.7	
Construction H2 Plant Max Day	Leq,D	123.7	9281	158.19	-55.0	3.8	-21.3	-1.6		0.0	4.2	-1.0	0.0	52.8	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	158.19	-55.0	3.8	-21.3	-1.6		0.0	4.2	-7.0	0.0	36.1	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	312.81	-60.9	4.7	-23.8	-2.3		0.0	2.8	-1.0	0.0	43.2	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	312.81	-60.9	4.7	-23.8	-2.3		0.0	2.8	-7.0	0.0	26.5	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	194.51	-56.8	4.0	-20.6	-1.5	-0.18	0.0	2.8	-1.0	0.0	50.5	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	300.82	-60.6	4.7	-21.2	-2.2		0.0	4.0	-7.0	0.0	30.7	
Construction Unit B Max Day	Leq,D	123.7	20817	300.82	-60.6	4.7	-21.2	-2.2		0.0	4.0	-1.0	0.0	47.5	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	159.82	-55.1	3.4	-23.7	-0.9		4.1	2.4	0.0	0.0	28.1	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	164.84	-55.3	3.5	-24.2	-1.0	-0.22	-6.1	2.0	0.0	0.0	16.5	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	153.82	-54.7	3.0	-23.7	-0.9		4.5	2.5	0.0	0.0	31.4	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	158.59	-55.0	3.2	-24.3	-1.0		-5.1	2.1	0.0	0.0	20.6	
Cooling Tower M 512	Leq,D	95.7		168.25	-55.5	4.2	-24.8	-0.9		0.0	2.3	0.0	0.0	21.0	
Cooling Tower M 513	Leq,D	95.7		168.92	-55.5	4.2	-24.8	-0.9		0.0	2.2	0.0	0.0	20.9	
Cooling Tower M 514	Leq,D	95.7		167.80	-55.5	4.2	-24.8	-0.9		0.0	2.3	0.0	0.0	21.0	
Heater # 5-Heater	Leq,D	91.1	13	380.41	-62.6	5.0	-24.1	-1.3		0.0	4.8	0.0	0.0	15.8	
Heater # 5-Heater	Leq,D	91.1	13	378.20	-62.5	5.0	-24.0	-1.3		0.0	3.2	0.0	0.0	14.5	
Heater # 5-Heater	Leq,D	91.1	13	376.00	-62.5	5.0	-24.3	-1.3		0.0	2.0	0.0	0.0	13.0	
Hydro Heater H-402	Leq,D	98.1		180.44	-56.1	4.1	-22.9	-0.7	-0.47	0.0	2.4	0.0	0.0	24.4	
Motor & Pump P 56A/B	Leq,D	93.7		171.55	-55.7	4.3	-24.4	-1.5	-0.23	0.0	2.8	0.0	0.0	19.0	
Motor & Pump P 120/121	Leq,D	96.2	2	147.05	-54.3	4.1	-23.4	-0.6	-0.01	0.0	5.9	0.0	0.0	27.8	
Motor & Pump P 211/212	Leq,D	93.7		203.26	-57.2	4.6	-24.3	-1.7	-0.91	0.0	6.8	0.0	0.0	21.1	
Motor & Pump P 215/214	Leq,D	94.6		199.36	-57.0	4.6	-24.3	-1.6	-0.88	0.0	6.2	0.0	0.0	21.6	
Motor & Pump P 216	Leq,D	98.3		206.90	-57.3	4.5	-24.3	-1.7	-1.00	0.0	3.0	0.0	0.0	21.6	
Motor & Pump P 217/218	Leq,D	93.7		201.87	-57.1	4.9	-24.4	-1.7	-0.91	0.0	6.9	0.0	0.0	21.4	
Motor & Pump P 300	Leq,D	97.1	2	155.00	-54.8	4.2	-23.3	-0.7		0.0	7.7	0.0	0.0	30.2	
Motor & Pump P 301	Leq,D	102.1	2	156.02	-54.9	4.2	-23.3	-0.7		0.0	9.3	0.0	0.0	36.7	
Motor & Pump P 302	Leq,D	97.1	2	153.93	-54.7	4.2	-23.3	-0.7		0.0	3.6	0.0	0.0	26.1	
Motor & Pump P 303	Leq,D	97.1	2	153.13	-54.7	4.1	-23.5	-0.7		0.0	8.1	0.0	0.0	30.5	
Motor & Pump P 305	Leq,D	97.5	2	152.26	-54.6	4.1	-24.1	-0.7		0.0	10.1	0.0	0.0	32.3	
Motor & Pump P 306	Leq,D	112.6	4	147.06	-54.3	3.7	-23.6	-1.1		0.0	1.3	0.0	0.0	38.6	
Motor & Pump P 307	Leq,D	102.1	2	159.04	-55.0	4.2	-23.0	-0.7		0.0	9.7	0.0	0.0	37.4	
Motor & Pump P 309	Leq,D	97.5	2	151.39	-54.6	4.1	-24.1	-0.7		0.0	10.1	0.0	0.0	32.3	
Motor & Pump P 312	Leq,D	101.5	2	173.67	-55.8	4.6	-24.4	-0.9	-0.29	0.0	4.6	0.0	0.0	29.3	
Motor & Pump P 313	Leq,D	101.5	2	174.93	-55.8	4.6	-24.4	-0.9	-0.30	0.0	4.9	0.0	0.0	29.5	
Motor & Pump P 315	Leq,D	102.9	2	179.74	-56.1	4.4	-24.0	-0.9	-0.31	0.0	2.5	0.0	0.0	28.6	
Motor & Pump P 316	Leq,D	102.9	2	181.19	-56.2	4.5	-24.0	-0.9	-0.31	0.0	2.5	0.0	0.0	28.5	
Motor & Pump P 317	Leq,D	102.9	2	182.58	-56.2	4.4	-24.0	-0.9	-0.31	0.0	2.6	0.0	0.0	28.5	
Motor & Pump P 318	Leq,D	100.2	1	177.96	-56.0	4.7	-24.0	-0.8	-0.30	0.0	2.5	0.0	0.0	26.2	
Motor & Pump P 319	Leq,D	100.2	1	176.89	-55.9	4.7	-24.0	-0.8	-0.30	0.0	4.6	0.0	0.0	28.3	
Motor & Pump P 327	Leq,D	111.2	3	143.52	-54.1	4.0	-24.6	-1.1		0.0	4.4	0.0	0.0	39.9	
Motor & Pump P 328	Leq,D	109.9	5	150.23	-54.5	3.8	-23.9	-0.7		0.0	9.5	0.0	0.0	44.2	
Motor & Pump P 329	Leq,D	110.2	5	148.61	-54.4	3.8	-24.0	-0.7		0.0	8.5	0.0	0.0	43.3	
Motor & Pump P 451	Leq,D	93.7		185.86	-56.4	4.4	-24.4	-1.6	-0.56	0.0	2.2	0.0	0.0	17.3	
Motor & Pump P 453	Leq,D	93.7		194.85	-56.8	4.5	-24.3	-1.6	-0.44	0.0	2.2	0.0	0.0	17.2	
Motor & Pump P 454	Leq,D	93.7		186.21	-56.4	4.4	-24.6	-1.6		0.0	2.1	0.0	0.0	17.5	
Motor & Pump P 457	Leq,D	93.7		196.22	-56.8	4.5	-24.3	-1.6	-0.42	0.0	2.2	0.0	0.0	17.1	
Motor & Pump P 458	Leq,D	93.7		185.30	-56.3	4.4	-24.4	-1.6	-0.53	0.0	2.1	0.0	0.0	17.4	
Motor & Pump P 459	Leq,D	93.7		185.34	-56.4	4.4	-24.6	-1.6		0.0	2.1	0.0	0.0	17.6	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		153.69	-54.7	4.2	-24.5	-1.4	-0.55	0.0	4.3	0.0	0.0	23.7	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		152.22	-54.6	4.2	-24.4	-1.4	-0.56	0.0	4.6	0.0	0.0	24.0	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		119.03	-52.5	3.8	-24.6	-1.1	-0.09	0.0	2.3	0.0	0.0	23.2	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		118.08	-52.4	3.8	-24.6	-1.1	-0.06	0.0	2.1	0.0	0.0	23.1	
Motor & Pump P 1601 A	Leq,D	96.3	2	141.28	-54.0	3.7	-24.6	-1.3		0.0	4.8	0.0	0.0	24.8	
Motor & Pump P 1601 B	Leq,D	96.3	2	140.76	-54.0	3.7	-24.5	-1.3		0.0	4.6	0.0	0.0	24.8	
Motor & Pump P 1602 A	Leq,D	96.3	2	140.58	-54.0	3.7	-24.5	-1.3		0.0	4.2	0.0	0.0	24.4	
Motor & Pump P 1602 B	Leq,D	96.5	2	140.11	-53.9	3.7	-24.5	-1.3		0.0	4.1	0.0	0.0	24.6	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	148.78	-54.4	4.3	-24.4	-1.3	-0.36	0.0	4.0	0.0	0.0	24.3	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	144.47	-54.2	4.2	-24.6	-1.3	-0.22	0.0	4.1	0.0	0.0	24.6	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	142.30	-54.1	4.2	-24.5	-1.3	-0.32	0.0	3.6	0.0	0.0	24.2	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	150.67	-54.6	4.2	-24.4	-1.3	-0.56	0.0	2.9	0.0	0.0	22.9	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	149.11	-54.5	4.2	-24.4	-1.3	-0.55	0.0	2.2	0.0	0.0	22.3	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	134.61	-53.6	4.1	-24.5	-1.2	-0.04	0.0	3.6	0.0	0.0	24.8	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	135.64	-53.6	4.1	-24.6	-1.3	-0.18	0.0	2.8	0.0	0.0	23.6	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	137.60	-53.8	4.1	-24.5	-1.3	-0.33	0.0	2.8	0.0	0.0	23.3	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	136.75	-53.7	4.2	-24.5	-1.3	-0.25	0.0	2.8	0.0	0.0	23.6	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	265.88	-59.5	4.9	-21.3	-0.4	-0.15	0.0	2.3	-36.5	0.0	24.0	
Tank Farm Pump 1	Leq,D	99.0	3	257.05	-59.2	4.9	-24.4	-1.8		0.0	2.7	0.0	0.0	21.2	
Tank Farm Pump 2	Leq,D	99.0	3	274.12	-59.8	4.9	-24.2	-1.8		0.0	3.7	0.0	0.0	21.8	
Tank Farm Pump 3	Leq,D	99.0	3	279.11	-59.9	4.9	-24.2	-1.8		0.0	3.7	0.0	0.0	21.7	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	307.73	-60.8	4.0	-15.9	-2.5	-0.02	0.0	0.5	-14.8	0.0	22.9	
XF-1502 Splitter Area 1	Leq,D	104.5		140.06	-53.9	2.8	-24.5	-1.0	0.00	-4.0	1.8	0.0	0.0	25.7	
XF-1502 Splitter Area 2	Leq,D	104.5		143.40	-54.1	2.8	-23.7	-0.9		-3.2	1.9	0.0	0.0	27.3	
XF-1504 Splitter Area 1	Leq,D	104.5		138.09	-53.8	2.8	-23.7	-0.8	-0.01	-3.2	2.0	0.0	0.0	27.7	
XF-1504 Splitter Area 2	Leq,D	104.5		141.48	-54.0	2.8	-23.7	-0.9		-3.2	2.4	0.0	0.0	27.9	
XF 304, XF 321	Leq,D	110.5	56	161.66	-55.2	2.5	-20.4	-0.3	-0.04	-1.5	0.0	0.0	0.0	35.6	
XF 313, XF 314	Leq,D	113.0	18	145.66	-54.3	2.4	-22.0	-0.4		-2.6	2.5	0.0	0.0	38.7	
XF 335-1, XF 335-2	Leq,D	113.4	54	154.65	-54.8	2.5	-21.1	-0.5	-0.03	-1.7	0.2	0.0	0.0	38.0	
XF 503	Leq,D	113.0	21	184.33	-56.3	2.7	-23.7	-1.9	-0.52	-3.0	2.3	0.0	0.0	32.5	
XF - 1601	Leq,D	96.6		142.34	-54.1	2.7	-21.7	-0.3		-1.2	2.0	0.0	0.0	24.0	
XF - 1602	Leq,D	96.6		140.54	-53.9	2.7	-21.7	-0.3		-1.2	1.9	0.0	0.0	24.0	
XF Module 1510	Leq,D	108.3		149.38	-54.5	2.8	-24.0	-0.9	-0.19	-3.4	2.0	0.0	0.0	30.1	
XF Module 1519	Leq,D	109.0		144.67	-54.2	2.8	-24.1	-0.9	-0.16	-3.4	2.0	0.0	0.0	31.1	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								7.0			36.3	
Crude Operatoin Truck Truck Traffic	Leq,D		520								10.9			23.4	
Receiver N-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 57.9 dB(A) Ld 7-19 dB(A) Leq,N 49.1 dB(A) Le 19-22 dB(A) CNEL 58.5 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	300.43	-60.5	4.9	-22.1	-2.0	-0.03	0.0	1.5	-8.8	0.0	22.0	
Air Compressor C 1	Leq,D	110.0	5	219.73	-57.8	4.4	-23.8	-0.9		0.0	5.8	0.0	0.0	37.7	
Air Compressor Pump	Leq,D	100.3		237.66	-58.5	4.7	-24.7	-3.0		0.0	2.4	0.0	0.0	21.2	
Blower F 401	Leq,D	113.0		272.84	-59.7	4.3	-22.2	-0.4	-0.26	0.0	0.0	0.0	0.0	34.8	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	352.31	-61.9	4.9	-23.3	-1.1		0.0	4.6	0.0	0.0	21.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	269.24	-59.6	4.0	-23.8	-1.0	-0.75	1.8	2.1	0.0	0.0	27.5	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	263.00	-59.4	4.0	-23.2	-1.3	-0.59	0.0	2.4	0.0	0.0	22.4	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	271.31	-59.7	4.0	-22.3	-0.8	-0.29	3.1	1.9	0.0	0.0	32.4	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	278.68	-59.9	4.1	-24.2	-1.1	-0.69	-7.1	2.0	0.0	0.0	23.8	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	266.14	-59.5	4.0	-24.3	-1.1	-0.91	-7.1	2.1	0.0	0.0	16.9	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	284.22	-60.1	4.1	-24.2	-1.5	-0.39	-7.8	2.1	0.0	0.0	12.7	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	196.12	-56.8	4.2	-20.1	-1.8		0.0	4.8	-7.0	0.0	36.3	
Construciton Control Room Max Day	Leq,D	123.7	5461	196.12	-56.8	4.2	-20.1	-1.8		0.0	4.8	-1.0	0.0	53.0	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	436.15	-63.8	5.0	-24.1	-3.1		0.0	1.4	-1.0	0.0	38.2	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	349.14	-61.9	3.9	-11.3	-2.7		0.0	0.6	-1.0	0.0	51.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	169.60	-55.6	3.9	-23.7	-1.7		0.0	2.4	-1.0	0.0	48.0	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	169.60	-55.6	3.9	-23.7	-1.7		0.0	2.4	-7.0	0.0	31.2	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	249.61	-58.9	4.5	-23.8	-2.1		0.0	2.7	-1.0	0.0	45.2	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	249.60	-58.9	4.5	-23.8	-2.1		0.0	2.7	-7.0	0.0	28.5	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	277.55	-59.9	4.4	-23.3	-2.2	-0.23	0.0	3.1	-1.0	0.0	44.6	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	280.08	-59.9	4.7	-20.5	-2.2		0.0	5.1	-7.0	0.0	33.1	
Construction Unit B Max Day	Leq,D	123.7	20817	280.08	-59.9	4.7	-20.5	-2.2		0.0	5.1	-1.0	0.0	49.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	210.32	-57.4	3.9	-23.7	-1.1		2.4	0.0	0.0	0.0	21.9	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	219.39	-57.8	3.9	-24.5	-1.3	0.00	-7.8	0.0	0.0	0.0	10.3	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	194.38	-56.8	3.2	-23.3	-1.0		2.7	0.0	0.0	0.0	25.5	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	206.41	-57.3	3.5	-24.3	-1.2		-7.7	3.2	0.0	0.0	17.0	
Cooling Tower M 512	Leq,D	95.7		219.38	-57.8	4.6	-24.8	-1.1		0.0	0.1	0.0	0.0	16.6	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower M 513	Leq,D	95.7		220.49	-57.9	4.5	-24.8	-1.1		0.0	0.0	0.0	0.0	16.4
Cooling Tower M 514	Leq,D	95.7		218.40	-57.8	4.5	-24.8	-1.1		0.0	0.0	0.0	0.0	16.5
Heater # 5-Heater	Leq,D	91.1	13	349.37	-61.9	4.9	-24.1	-1.2		0.0	4.8	0.0	0.0	16.6
Heater # 5-Heater	Leq,D	91.1	13	348.28	-61.8	4.9	-24.1	-1.2		0.0	4.6	0.0	0.0	16.5
Heater # 5-Heater	Leq,D	91.1	13	347.24	-61.8	4.9	-24.4	-1.3		0.0	2.3	0.0	0.0	13.8
Hydro Heater H-402	Leq,D	98.1		239.41	-58.6	4.4	-22.6	-0.8	-0.31	0.0	0.0	0.0	0.0	20.2
Motor & Pump P 56A/B	Leq,D	93.7		236.03	-58.5	4.6	-24.3	-1.9	-0.50	0.0	2.2	0.0	0.0	15.3
Motor & Pump P 120/121	Leq,D	96.2	2	224.40	-58.0	4.5	-24.5	-1.1	-0.19	0.0	2.8	0.0	0.0	19.7
Motor & Pump P 211/212	Leq,D	93.7		266.60	-59.5	4.9	-24.5	-2.1	-0.42	0.0	0.0	0.0	0.0	11.9
Motor & Pump P 215/214	Leq,D	94.6		263.79	-59.4	4.9	-23.5	-1.8	-1.04	0.0	5.7	0.0	0.0	19.5
Motor & Pump P 216	Leq,D	98.3		271.63	-59.7	4.8	-23.5	-1.8	-1.21	0.0	2.1	0.0	0.0	19.0
Motor & Pump P 217/218	Leq,D	93.7		265.63	-59.5	5.1	-24.2	-2.0	-1.04	0.0	0.0	0.0	0.0	12.0
Motor & Pump P 300	Leq,D	97.1	2	234.39	-58.4	4.5	-24.4	-1.1		0.0	3.7	0.0	0.0	21.4
Motor & Pump P 301	Leq,D	102.1	2	235.06	-58.4	4.5	-24.4	-1.1		0.0	4.4	0.0	0.0	27.1
Motor & Pump P 302	Leq,D	97.1	2	233.69	-58.4	4.5	-24.3	-1.1		0.0	2.6	0.0	0.0	20.4
Motor & Pump P 303	Leq,D	97.1	2	233.20	-58.3	4.4	-24.3	-1.1		0.0	6.9	0.0	0.0	24.7
Motor & Pump P 305	Leq,D	97.5	2	232.64	-58.3	4.4	-24.4	-1.1		0.0	3.5	0.0	0.0	21.5
Motor & Pump P 306	Leq,D	112.6	4	229.25	-58.2	4.1	-24.1	-1.6		0.0	1.9	0.0	0.0	34.7
Motor & Pump P 307	Leq,D	102.1	2	237.05	-58.5	4.5	-24.4	-1.1	-0.14	0.0	5.2	0.0	0.0	27.7
Motor & Pump P 309	Leq,D	97.5	2	232.08	-58.3	4.4	-24.5	-1.1		0.0	2.5	0.0	0.0	20.5
Motor & Pump P 312	Leq,D	101.5	2	247.01	-58.8	4.8	-23.9	-1.1	-0.25	0.0	3.1	0.0	0.0	25.2
Motor & Pump P 313	Leq,D	101.5	2	247.90	-58.9	4.8	-24.0	-1.1	-0.25	0.0	3.7	0.0	0.0	25.8
Motor & Pump P 315	Leq,D	102.9	2	251.38	-59.0	4.7	-24.0	-1.1	-0.28	0.0	4.3	0.0	0.0	27.5
Motor & Pump P 316	Leq,D	102.9	2	252.42	-59.0	4.7	-24.0	-1.1	-0.37	0.0	3.2	0.0	0.0	26.3
Motor & Pump P 317	Leq,D	102.9	2	253.37	-59.1	4.7	-24.0	-1.1	-0.36	0.0	3.3	0.0	0.0	26.4
Motor & Pump P 318	Leq,D	100.2	1	249.94	-58.9	4.9	-24.0	-1.1	-0.30	0.0	4.9	0.0	0.0	25.6
Motor & Pump P 319	Leq,D	100.2	1	249.18	-58.9	4.9	-24.0	-1.1	-0.28	0.0	4.1	0.0	0.0	24.8
Motor & Pump P 327	Leq,D	111.2	3	227.30	-58.1	4.5	-24.7	-1.7		0.0	5.2	0.0	0.0	36.3
Motor & Pump P 328	Leq,D	109.9	5	231.27	-58.3	4.3	-24.5	-1.1		0.0	2.6	0.0	0.0	32.9
Motor & Pump P 329	Leq,D	110.2	5	230.24	-58.2	4.3	-24.5	-1.1		0.0	2.5	0.0	0.0	33.2
Motor & Pump P 451	Leq,D	93.7		243.05	-58.7	4.7	-24.4	-1.9	-0.06	0.0	0.0	0.0	0.0	13.3
Motor & Pump P 453	Leq,D	93.7		248.90	-58.9	4.7	-24.5	-2.0		0.0	0.7	0.0	0.0	13.7
Motor & Pump P 454	Leq,D	93.7		243.88	-58.7	4.7	-24.7	-2.0		0.0	0.0	0.0	0.0	12.9
Motor & Pump P 457	Leq,D	93.7		249.97	-58.9	4.7	-24.5	-2.0		0.0	0.0	0.0	0.0	12.9
Motor & Pump P 458	Leq,D	93.7		242.19	-58.7	4.7	-24.4	-1.9	-0.03	0.0	0.1	0.0	0.0	13.4
Motor & Pump P 459	Leq,D	93.7		243.22	-58.7	4.7	-24.7	-2.0		0.0	0.0	0.0	0.0	12.9
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		213.53	-57.6	4.6	-24.5	-1.8	-0.36	0.0	2.0	0.0	0.0	18.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		212.48	-57.5	4.6	-24.5	-1.8	-0.35	0.0	2.0	0.0	0.0	18.7
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		185.89	-56.4	4.4	-24.5	-1.6	-0.15	0.0	2.9	0.0	0.0	20.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		185.29	-56.3	4.4	-24.5	-1.6	-0.10	0.0	2.9	0.0	0.0	20.1
Motor & Pump P 1601 A	Leq,D	96.3	2	191.73	-56.6	4.2	-24.6	-1.7		0.0	2.1	0.0	0.0	19.7
Motor & Pump P 1601 B	Leq,D	96.3	2	190.61	-56.6	4.2	-24.6	-1.6		0.0	2.1	0.0	0.0	19.7
Motor & Pump P 1602 A	Leq,D	96.3	2	189.91	-56.6	4.2	-24.6	-1.6		0.0	2.0	0.0	0.0	19.7
Motor & Pump P 1602 B	Leq,D	96.5	2	188.84	-56.5	4.2	-24.6	-1.6		0.0	0.0	0.0	0.0	17.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	205.92	-57.3	4.6	-24.5	-1.7	-0.21	0.0	0.0	0.0	0.0	17.5
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	202.89	-57.1	4.6	-24.5	-1.7	-0.21	0.0	1.4	0.0	0.0	19.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	201.35	-57.1	4.6	-24.5	-1.7	-0.21	0.0	1.8	0.0	0.0	19.6
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	211.13	-57.5	4.6	-24.5	-1.7	-0.35	0.0	1.9	0.0	0.0	19.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	210.03	-57.4	4.6	-23.0	-1.7	-0.26	0.0	0.0	0.0	0.0	18.9
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	192.83	-56.7	4.6	-24.5	-1.6	-0.03	0.0	1.7	0.0	0.0	19.6
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	194.63	-56.8	4.6	-24.5	-1.7	-0.09	0.0	1.7	0.0	0.0	19.5
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	197.88	-56.9	4.6	-23.0	-1.6	-0.19	0.0	1.2	0.0	0.0	20.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	196.46	-56.9	4.6	-23.4	-1.6	-0.16	0.0	1.4	0.0	0.0	20.1
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	306.26	-60.7	5.0	-20.7	-0.5	-0.09	0.0	2.4	-36.5	0.0	23.6
Tank Farm Pump 1	Leq,D	99.0	3	193.04	-56.7	4.6	-24.4	-1.4		0.0	3.1	0.0	0.0	24.2
Tank Farm Pump 2	Leq,D	99.0	3	205.93	-57.3	4.7	-24.3	-1.5		0.0	2.8	0.0	0.0	23.4
Tank Farm Pump 3	Leq,D	99.0	3	209.93	-57.4	4.7	-24.3	-1.5		0.0	2.6	0.0	0.0	23.1
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	372.60	-62.4	4.2	-15.7	-3.2	-0.01	0.0	0.4	-14.8	0.0	20.9
XF-1502 Splitter Area 1	Leq,D	104.5		198.75	-57.0	2.7	-23.5	-1.1	0.00	-3.1	0.0	0.0	0.0	22.5
XF-1502 Splitter Area 2	Leq,D	104.5		201.10	-57.1	2.7	-23.6	-1.1		-3.1	0.0	0.0	0.0	22.4
XF-1504 Splitter Area 1	Leq,D	104.5		195.32	-56.8	2.7	-23.6	-1.1	-0.01	-3.2	0.0	0.0	0.0	22.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF-1504 Splitter Area 2	Leq,D	104.5		197.71	-56.9	2.7	-23.6	-1.1		-3.2	0.0	0.0	0.0	22.5	
XF 304, XF 321	Leq,D	110.5	56	241.15	-58.6	2.2	-21.3	-0.5		-1.5	0.6	0.0	0.0	31.4	
XF 313, XF 314	Leq,D	113.0	18	230.77	-58.3	2.1	-22.9	-0.7		-2.7	1.0	0.0	0.0	31.7	
XF 335-1, XF 335-2	Leq,D	113.4	54	236.44	-58.5	2.3	-21.9	-0.8	0.00	-1.7	0.7	0.0	0.0	33.6	
XF 503	Leq,D	113.0	21	250.26	-59.0	2.6	-23.2	-1.9	-0.48	-2.9	2.3	0.0	0.0	30.5	
XF - 1601	Leq,D	96.6		191.48	-56.6	2.6	-21.3	-0.4		-1.2	0.0	0.0	0.0	19.6	
XF - 1602	Leq,D	96.6		187.27	-56.4	2.6	-21.4	-0.4		-1.2	0.0	0.0	0.0	19.8	
XF Module 1510	Leq,D	108.3		207.97	-57.4	2.7	-23.6	-1.2	-0.20	-3.2	0.0	0.0	0.0	25.6	
XF Module 1519	Leq,D	109.0		204.63	-57.2	2.7	-23.5	-1.1	-0.22	-3.2	0.0	0.0	0.0	26.5	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								7.3			38.4	
Crude Operatoin Truck Truck Traffic	Leq,D		520								14.5			28.2	
Receiver N-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 63.1 dB(A) Ld 7-19 dB(A) Leq,N 45.0 dB(A) Le 19-22 dB(A) CNEL 61.5 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	365.18	-62.2	5.1	-22.3	-1.9	-0.02	0.0	0.2	-8.8	0.0	19.1	
Air Compressor C 1	Leq,D	110.0	5	329.14	-61.3	4.4	-23.9	-1.3		0.0	5.1	0.0	0.0	33.0	
Air Compressor Pump	Leq,D	100.3		294.65	-60.4	4.9	-23.8	-2.9		0.0	0.1	0.0	0.0	18.1	
Blower F 401	Leq,D	113.0		362.83	-62.2	4.4	-21.1	-0.5	-0.20	0.0	0.0	0.0	0.0	33.4	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	346.59	-61.8	4.9	-22.4	-1.0		0.0	0.9	0.0	0.0	19.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	369.57	-62.3	4.3	-23.3	-1.2	-0.97	0.9	0.3	0.0	0.0	22.4	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	363.80	-62.2	4.3	-23.4	-1.7	-0.60	0.0	0.1	0.0	0.0	16.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	373.47	-62.4	4.2	-22.7	-1.1	-0.32	4.0	0.0	0.0	0.0	28.1	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	379.46	-62.6	4.3	-24.0	-1.4	-0.80	-5.8	0.1	0.0	0.0	20.4	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	366.68	-62.3	4.3	-23.6	-1.3	-0.76	-5.8	0.3	0.0	0.0	14.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	386.50	-62.7	4.3	-24.0	-1.8	-0.31	-7.8	0.0	0.0	0.0	8.0	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	207.49	-57.3	4.3	-22.6	-1.7		0.0	0.4	-7.0	0.0	29.1	
Construciton Control Room Max Day	Leq,D	123.7	5461	207.49	-57.3	4.3	-22.6	-1.7		0.0	0.4	-1.0	0.0	45.8	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	346.77	-61.8	4.9	-22.5	-2.2		0.0	0.6	-1.0	0.0	41.7	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	234.00	-58.4	4.5	-6.3	-2.8		0.0	3.0	-1.0	0.0	62.7	
Construction H2 Plant Max Day	Leq,D	123.7	9281	238.92	-58.6	4.4	-23.6	-2.0		0.0	1.3	-1.0	0.0	44.3	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	238.92	-58.6	4.4	-23.6	-2.0		0.0	1.3	-7.0	0.0	27.6	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	204.14	-57.2	4.3	-24.2	-2.0		0.0	3.0	-1.0	0.0	46.6	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	204.14	-57.2	4.3	-24.2	-2.0		0.0	3.0	-7.0	0.0	29.9	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	387.25	-62.8	4.6	-24.1	-3.0	-0.33	0.0	0.3	-1.0	0.0	37.4	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	290.72	-60.3	4.7	-22.3	-2.1		0.0	0.6	-7.0	0.0	26.6	
Construction Unit B Max Day	Leq,D	123.7	20817	290.72	-60.3	4.7	-22.3	-2.1		0.0	0.6	-1.0	0.0	43.3	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	302.50	-60.6	4.3	-23.1	-1.3		1.1	0.1	0.0	0.0	18.3	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	313.47	-60.9	4.3	-23.9	-1.5		-7.8	0.1	0.0	0.0	8.1	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	281.72	-60.0	3.7	-22.4	-1.1		1.3	0.5	0.0	0.0	22.6	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	297.23	-60.5	4.0	-23.9	-1.5		-7.8	4.1	0.0	0.0	15.1	
Cooling Tower M 512	Leq,D	95.7		311.17	-60.9	4.8	-24.4	-1.5		0.0	0.0	0.0	0.0	13.8	
Cooling Tower M 513	Leq,D	95.7		312.49	-60.9	4.8	-24.4	-1.5		0.0	0.0	0.0	0.0	13.7	
Cooling Tower M 514	Leq,D	95.7		309.92	-60.8	4.8	-24.1	-1.5		0.0	0.0	0.0	0.0	14.1	
Heater # 5-Heater	Leq,D	91.1	13	342.52	-61.7	4.9	-24.2	-1.2		0.0	0.7	0.0	0.0	12.7	
Heater # 5-Heater	Leq,D	91.1	13	343.09	-61.7	4.9	-22.5	-1.0		0.0	2.0	0.0	0.0	15.8	
Heater # 5-Heater	Leq,D	91.1	13	343.74	-61.7	4.9	-22.6	-1.1		0.0	0.0	0.0	0.0	13.7	
Hydro Heater H-402	Leq,D	98.1		335.00	-61.5	4.5	-23.3	-1.2		0.0	0.0	0.0	0.0	16.7	
Motor & Pump P 56A/B	Leq,D	93.7		335.47	-61.5	4.8	-24.1	-2.4	-0.45	0.0	0.5	0.0	0.0	10.5	
Motor & Pump P 120/121	Leq,D	96.2	2	332.07	-61.4	4.6	-24.4	-1.5	-0.22	0.0	0.0	0.0	0.0	13.2	
Motor & Pump P 211/212	Leq,D	93.7		363.70	-62.2	5.0	-24.3	-2.6	-0.62	0.0	0.0	0.0	0.0	9.0	
Motor & Pump P 215/214	Leq,D	94.6		361.79	-62.2	5.0	-24.0	-2.5	-0.89	0.0	1.6	0.0	0.0	11.7	
Motor & Pump P 216	Leq,D	98.3		369.48	-62.3	4.9	-24.0	-2.5	-0.98	0.0	0.0	0.0	0.0	13.4	
Motor & Pump P 217/218	Leq,D	93.7		363.09	-62.2	5.2	-24.3	-2.7	-0.38	0.0	0.3	0.0	0.0	9.5	
Motor & Pump P 300	Leq,D	97.1	2	342.92	-61.7	4.6	-24.4	-1.6		0.0	0.1	0.0	0.0	14.1	
Motor & Pump P 301	Leq,D	102.1	2	343.37	-61.7	4.6	-24.4	-1.6	-0.12	0.0	0.1	0.0	0.0	19.0	
Motor & Pump P 302	Leq,D	97.1	2	342.45	-61.7	4.6	-24.4	-1.6		0.0	0.3	0.0	0.0	14.3	
Motor & Pump P 303	Leq,D	97.1	2	342.15	-61.7	4.6	-24.4	-1.6		0.0	0.1	0.0	0.0	14.1	
Motor & Pump P 305	Leq,D	97.5	2	341.77	-61.7	4.5	-24.4	-1.6		0.0	0.8	0.0	0.0	15.2	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 306	Leq,D	112.6	4	339.47	-61.6	4.2	-24.3	-2.3		0.0	0.6	0.0	0.0	29.2
Motor & Pump P 307	Leq,D	102.1	2	344.73	-61.7	4.7	-24.4	-1.6	-0.22	0.0	1.7	0.0	0.0	20.5
Motor & Pump P 309	Leq,D	97.5	2	341.40	-61.7	4.5	-24.5	-1.6		0.0	0.5	0.0	0.0	14.9
Motor & Pump P 312	Leq,D	101.5	2	351.57	-61.9	4.9	-24.0	-1.5	-0.54	0.0	0.1	0.0	0.0	18.5
Motor & Pump P 313	Leq,D	101.5	2	352.19	-61.9	4.9	-24.0	-1.5	-0.54	0.0	0.1	0.0	0.0	18.4
Motor & Pump P 315	Leq,D	102.9	2	354.71	-62.0	4.8	-24.0	-1.6	-0.24	0.0	1.1	0.0	0.0	21.0
Motor & Pump P 316	Leq,D	102.9	2	355.43	-62.0	4.8	-24.0	-1.6	-0.55	0.0	1.9	0.0	0.0	21.6
Motor & Pump P 317	Leq,D	102.9	2	356.08	-62.0	4.8	-24.0	-1.6	-0.55	0.0	0.0	0.0	0.0	19.6
Motor & Pump P 318	Leq,D	100.2	1	353.53	-62.0	4.9	-24.0	-1.6	-0.54	0.0	0.4	0.0	0.0	17.5
Motor & Pump P 319	Leq,D	100.2	1	353.00	-61.9	4.9	-24.0	-1.6	-0.54	0.0	0.0	0.0	0.0	17.1
Motor & Pump P 327	Leq,D	111.2	3	338.41	-61.6	4.6	-24.7	-2.4		0.0	2.3	0.0	0.0	29.5
Motor & Pump P 328	Leq,D	109.9	5	340.80	-61.6	4.4	-24.5	-1.6		0.0	0.2	0.0	0.0	26.9
Motor & Pump P 329	Leq,D	110.2	5	340.11	-61.6	4.5	-24.5	-1.5		0.0	0.2	0.0	0.0	27.1
Motor & Pump P 451	Leq,D	93.7		337.19	-61.5	4.9	-24.1	-2.4		0.0	0.0	0.0	0.0	10.6
Motor & Pump P 453	Leq,D	93.7		340.43	-61.6	4.9	-24.0	-2.4		0.0	1.1	0.0	0.0	11.7
Motor & Pump P 454	Leq,D	93.7		338.30	-61.6	4.9	-24.1	-2.4		0.0	0.9	0.0	0.0	11.4
Motor & Pump P 457	Leq,D	93.7		341.21	-61.7	4.9	-24.0	-2.4		0.0	1.1	0.0	0.0	11.6
Motor & Pump P 458	Leq,D	93.7		336.18	-61.5	4.9	-24.1	-2.4		0.0	0.0	0.0	0.0	10.6
Motor & Pump P 459	Leq,D	93.7		337.83	-61.6	4.9	-24.1	-2.4		0.0	0.0	0.0	0.0	10.6
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		311.46	-60.9	4.9	-24.1	-2.3	-0.31	0.0	0.0	0.0	0.0	13.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		310.75	-60.8	4.9	-24.1	-2.3	-0.31	0.0	2.9	0.0	0.0	16.4
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		289.77	-60.2	4.7	-24.4	-2.3	-0.20	0.0	0.1	0.0	0.0	13.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		289.39	-60.2	4.7	-24.3	-2.2	-0.15	0.0	0.1	0.0	0.0	13.3
Motor & Pump P 1601 A	Leq,D	96.3	2	285.76	-60.1	4.6	-24.2	-2.1		0.0	0.3	0.0	0.0	14.8
Motor & Pump P 1601 B	Leq,D	96.3	2	284.38	-60.1	4.6	-24.2	-2.1		0.0	0.3	0.0	0.0	14.8
Motor & Pump P 1602 A	Leq,D	96.3	2	283.44	-60.0	4.6	-24.2	-2.1		0.0	0.3	0.0	0.0	14.8
Motor & Pump P 1602 B	Leq,D	96.5	2	282.11	-60.0	4.6	-24.2	-2.1		0.0	0.3	0.0	0.0	15.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	302.77	-60.6	4.9	-24.1	-2.2	-0.18	0.0	1.3	0.0	0.0	15.6
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	300.76	-60.6	4.9	-24.1	-2.2	-0.18	0.0	2.4	0.0	0.0	16.8
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	299.74	-60.5	4.9	-24.1	-2.2	-0.18	0.0	1.9	0.0	0.0	16.3
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	309.62	-60.8	4.9	-24.1	-2.3	-0.31	0.0	2.9	0.0	0.0	17.0
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	308.87	-60.8	4.8	-24.1	-2.3	-0.31	0.0	2.3	0.0	0.0	16.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	291.43	-60.3	4.9	-24.4	-2.2	-0.02	0.0	0.6	0.0	0.0	14.8
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	293.53	-60.3	4.9	-24.4	-2.3	-0.08	0.0	0.7	0.0	0.0	14.8
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	297.25	-60.5	4.8	-24.4	-2.3	-0.17	0.0	1.2	0.0	0.0	15.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	295.61	-60.4	4.8	-24.4	-2.3	-0.13	0.0	0.8	0.0	0.0	14.8
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	375.53	-62.5	5.1	-20.9	-0.6	-0.07	0.0	0.1	-36.5	0.0	19.3
Tank Farm Pump 1	Leq,D	99.0	3	157.42	-54.9	4.4	-24.4	-1.2		0.0	1.3	0.0	0.0	24.2
Tank Farm Pump 2	Leq,D	99.0	3	158.04	-55.0	4.4	-24.6	-1.2		0.0	0.9	0.0	0.0	23.6
Tank Farm Pump 3	Leq,D	99.0	3	158.94	-55.0	4.4	-24.6	-1.2		0.0	0.6	0.0	0.0	23.2
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	468.87	-64.4	4.4	-15.8	-3.7	-0.01	0.0	0.1	-14.8	0.0	18.1
XF-1502 Splitter Area 1	Leq,D	104.5		297.12	-60.5	2.6	-23.1	-1.5	0.00	-3.2	0.1	0.0	0.0	19.0
XF-1502 Splitter Area 2	Leq,D	104.5		298.68	-60.5	2.6	-23.1	-1.5		-3.2	0.0	0.0	0.0	18.9
XF-1504 Splitter Area 1	Leq,D	104.5		293.11	-60.3	2.6	-23.1	-1.5	-0.01	-3.2	0.1	0.0	0.0	19.2
XF-1504 Splitter Area 2	Leq,D	104.5		294.69	-60.4	2.6	-23.1	-1.5		-3.2	0.0	0.0	0.0	19.0
XF 304, XF 321	Leq,D	110.5	56	349.58	-61.9	2.0	-21.5	-0.7		-1.5	0.0	0.0	0.0	26.9
XF 313, XF 314	Leq,D	113.0	18	342.57	-61.7	2.4	-22.4	-1.0		-2.7	0.0	0.0	0.0	27.6
XF 335-1, XF 335-2	Leq,D	113.4	54	346.32	-61.8	2.1	-21.8	-1.1	0.00	-1.7	0.0	0.0	0.0	29.1
XF 503	Leq,D	113.0	21	349.69	-61.9	3.2	-23.0	-2.2	-0.50	-2.8	0.2	0.0	0.0	26.1
XF - 1601	Leq,D	96.6		284.70	-60.1	2.4	-20.9	-0.6		-1.2	0.0	0.0	0.0	16.2
XF - 1602	Leq,D	96.6		279.45	-59.9	2.4	-20.9	-0.5		-1.2	0.0	0.0	0.0	16.4
XF Module 1510	Leq,D	108.3		305.53	-60.7	2.7	-23.1	-1.6	-0.23	-3.1	0.1	0.0	0.0	22.4
XF Module 1519	Leq,D	109.0		303.29	-60.6	2.6	-23.1	-1.6	-0.23	-3.2	0.9	0.0	0.0	23.9
Construction / Renewable Fuels Truck Tr	Leq,D		1368								13.0			35.8
Crude Operatoin Truck Truck Traffic	Leq,D		520								18.4			35.4
Receiver N-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.6 dB(A) Ld 7-19 dB(A) Leq,N 56.4 dB(A) Le 19-22 dB(A) CNEL 70.4 dB(A) Lmax day hr dB(A) Ld 7-19														
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	431.07	-63.7	5.4	-13.6	-2.1	-0.01	0.0	0.7	-8.8	0.0	27.0
Air Compressor C 1	Leq,D	110.0	5	418.35	-63.4	5.5	-21.8	-1.0		0.0	6.9	0.0	0.0	36.2
Air Compressor Pump	Leq,D	100.3		360.59	-62.1	5.3	-21.2	-2.1		0.0	2.1	0.0	0.0	22.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Blower F 401	Leq,D	113.0		442.91	-63.9	5.3	-18.2	-0.5	-0.17	0.0	6.2	0.0	0.0	41.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	369.00	-62.3	5.2	-14.4	-0.7		0.0	2.0	0.0	0.0	28.4	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	454.48	-64.1	5.1	-20.3	-1.0	-1.04	0.6	1.8	0.0	0.0	25.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	448.99	-64.0	5.1	-14.2	-1.0	-1.04	0.0	0.6	0.0	0.0	26.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	459.21	-64.2	5.1	-14.1	-0.8	-0.53	4.3	1.2	0.0	0.0	37.4	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	464.48	-64.3	5.1	-21.7	-1.1	-0.97	-5.1	0.8	0.0	0.0	23.4	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	451.72	-64.1	5.1	-20.6	-1.0	-1.02	-5.1	0.7	0.0	0.0	17.7	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	472.15	-64.5	5.1	-21.9	-1.4	-0.47	-7.8	1.1	0.0	0.0	10.6	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	255.55	-59.1	4.8	-11.4	-2.1		0.0	0.5	-7.0	0.0	38.6	
Construciton Control Room Max Day	Leq,D	123.7	5461	255.55	-59.1	4.8	-11.4	-2.1		0.0	0.5	-1.0	0.0	55.3	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	289.32	-60.2	4.9	-16.8	-1.3		0.0	0.7	-1.0	0.0	50.0	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	142.86	-54.1	3.7	-1.8	-1.8		0.0	1.8	-1.0	0.0	70.5	
Construction H2 Plant Max Day	Leq,D	123.7	9281	314.40	-60.9	5.0	-20.2	-1.3		0.0	4.4	-1.0	0.0	49.7	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	314.40	-60.9	5.0	-20.2	-1.3		0.0	4.4	-7.0	0.0	33.0	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	208.63	-57.4	4.5	-7.2	-2.8		0.0	3.3	-1.0	0.0	63.1	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	208.63	-57.4	4.5	-7.2	-2.8		0.0	3.3	-7.0	0.0	46.3	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	476.16	-64.5	5.3	-16.4	-2.0	-0.29	0.0	0.3	-1.0	0.0	45.1	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	326.84	-61.3	5.0	-8.5	-2.7		0.0	1.6	-7.0	0.0	40.1	
Construction Unit B Max Day	Leq,D	123.7	20817	326.84	-61.3	5.0	-8.5	-2.7		0.0	1.6	-1.0	0.0	56.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	384.84	-62.7	5.0	-19.0	-0.9		0.7	2.2	0.0	0.0	23.2	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	396.39	-63.0	5.0	-21.7	-1.3		-7.8	1.2	0.0	0.0	10.4	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	362.56	-62.2	4.6	-17.2	-0.8		0.7	3.9	0.0	0.0	29.6	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	379.09	-62.6	4.7	-22.0	-1.3		-7.8	8.3	0.0	0.0	20.1	
Cooling Tower M 512	Leq,D	95.7		393.15	-62.9	5.3	-23.8	-1.7		0.0	3.9	0.0	0.0	16.5	
Cooling Tower M 513	Leq,D	95.7		394.52	-62.9	5.3	-23.7	-1.7		0.0	4.4	0.0	0.0	17.1	
Cooling Tower M 514	Leq,D	95.7		391.81	-62.9	5.3	-23.9	-1.7		0.0	6.2	0.0	0.0	18.8	
Heater # 5-Heater	Leq,D	91.1	13	364.38	-62.2	5.3	-17.0	-0.8		0.0	1.2	0.0	0.0	20.6	
Heater # 5-Heater	Leq,D	91.1	13	366.15	-62.3	5.3	-18.7	-0.8		0.0	5.6	0.0	0.0	23.2	
Heater # 5-Heater	Leq,D	91.1	13	368.04	-62.3	5.3	-17.3	-0.7		0.0	1.0	0.0	0.0	20.0	
Hydro Heater H-402	Leq,D	98.1		418.21	-63.4	5.4	-22.9	-1.2		0.0	1.2	0.0	0.0	17.2	
Motor & Pump P 56A/B	Leq,D	93.7		420.39	-63.5	5.4	-20.9	-1.8	-0.46	0.0	1.8	0.0	0.0	14.3	
Motor & Pump P 120/121	Leq,D	96.2	2	420.55	-63.5	5.4	-20.9	-1.3	-0.23	0.0	0.0	0.0	0.0	15.8	
Motor & Pump P 211/212	Leq,D	93.7		447.18	-64.0	5.5	-23.9	-2.9	-0.23	0.0	7.3	0.0	0.0	15.4	
Motor & Pump P 215/214	Leq,D	94.6		445.70	-64.0	5.5	-19.9	-1.7	-0.61	0.0	4.2	0.0	0.0	18.1	
Motor & Pump P 216	Leq,D	98.3		453.23	-64.1	5.4	-19.8	-1.8	-0.76	0.0	0.8	0.0	0.0	18.1	
Motor & Pump P 217/218	Leq,D	93.7		446.73	-64.0	5.6	-20.1	-1.8	-0.61	0.0	0.8	0.0	0.0	13.6	
Motor & Pump P 300	Leq,D	97.1	2	431.70	-63.7	5.5	-19.4	-1.3	-0.12	0.0	0.0	0.0	0.0	18.1	
Motor & Pump P 301	Leq,D	102.1	2	432.06	-63.7	5.5	-19.6	-1.3	-0.23	0.0	0.0	0.0	0.0	22.8	
Motor & Pump P 302	Leq,D	97.1	2	431.32	-63.7	5.5	-21.7	-1.4		0.0	0.0	0.0	0.0	15.8	
Motor & Pump P 303	Leq,D	97.1	2	431.11	-63.7	5.4	-20.1	-1.3		0.0	0.0	0.0	0.0	17.5	
Motor & Pump P 305	Leq,D	97.5	2	430.81	-63.7	5.4	-20.1	-1.3		0.0	0.0	0.0	0.0	17.9	
Motor & Pump P 306	Leq,D	112.6	4	428.98	-63.6	5.4	-21.9	-1.5		0.0	0.4	0.0	0.0	31.3	
Motor & Pump P 307	Leq,D	102.1	2	433.13	-63.7	5.5	-20.1	-1.3	-0.23	0.0	0.2	0.0	0.0	22.4	
Motor & Pump P 309	Leq,D	97.5	2	430.52	-63.7	5.4	-22.9	-1.5		0.0	0.3	0.0	0.0	15.2	
Motor & Pump P 312	Leq,D	101.5	2	438.57	-63.8	5.5	-19.9	-1.3	-0.55	0.0	0.0	0.0	0.0	21.5	
Motor & Pump P 313	Leq,D	101.5	2	439.06	-63.8	5.6	-19.8	-1.3	-0.55	0.0	3.0	0.0	0.0	24.6	
Motor & Pump P 315	Leq,D	102.9	2	441.13	-63.9	5.5	-18.3	-1.3	-0.55	0.0	1.8	0.0	0.0	26.2	
Motor & Pump P 316	Leq,D	102.9	2	441.72	-63.9	5.5	-17.9	-1.3	-0.55	0.0	2.5	0.0	0.0	27.2	
Motor & Pump P 317	Leq,D	102.9	2	442.21	-63.9	5.5	-16.2	-1.3	-0.55	0.0	1.3	0.0	0.0	27.8	
Motor & Pump P 318	Leq,D	100.2	1	440.08	-63.9	5.6	-19.3	-1.3	-0.55	0.0	1.9	0.0	0.0	22.7	
Motor & Pump P 319	Leq,D	100.2	1	439.66	-63.9	5.6	-18.6	-1.3	-0.55	0.0	1.5	0.0	0.0	23.1	
Motor & Pump P 327	Leq,D	111.2	3	428.28	-63.6	5.4	-23.6	-2.4		0.0	2.0	0.0	0.0	29.0	
Motor & Pump P 328	Leq,D	109.9	5	430.01	-63.7	5.4	-22.7	-1.5		0.0	0.1	0.0	0.0	27.6	
Motor & Pump P 329	Leq,D	110.2	5	429.47	-63.7	5.4	-23.0	-1.5		0.0	0.1	0.0	0.0	27.4	
Motor & Pump P 451	Leq,D	93.7		419.71	-63.5	5.4	-22.6	-2.0		0.0	3.7	0.0	0.0	14.7	
Motor & Pump P 453	Leq,D	93.7		421.68	-63.5	5.4	-22.4	-2.0		0.0	3.6	0.0	0.0	14.8	
Motor & Pump P 454	Leq,D	93.7		420.92	-63.5	5.4	-22.5	-2.0		0.0	4.3	0.0	0.0	15.4	
Motor & Pump P 457	Leq,D	93.7		422.31	-63.5	5.4	-22.3	-2.0		0.0	3.7	0.0	0.0	15.0	
Motor & Pump P 458	Leq,D	93.7		418.64	-63.4	5.4	-22.6	-2.0		0.0	3.7	0.0	0.0	14.6	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P 459	Leq,D	93.7		420.54	-63.5	5.4	-22.6	-2.0		0.0	4.5	0.0	0.0	15.4	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		396.08	-62.9	5.4	-21.6	-1.8	-0.31	0.0	4.8	0.0	0.0	19.7	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		395.52	-62.9	5.4	-21.5	-1.7	-0.31	0.0	6.3	0.0	0.0	21.4	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		377.12	-62.5	5.4	-24.0	-2.4	-0.21	0.0	0.4	0.0	0.0	12.0	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		376.82	-62.5	5.4	-23.0	-2.0	-0.18	0.0	0.3	0.0	0.0	13.4	
Motor & Pump P 1601 A	Leq,D	96.3	2	369.26	-62.3	5.2	-21.0	-1.6		0.0	2.8	0.0	0.0	19.4	
Motor & Pump P 1601 B	Leq,D	96.3	2	367.81	-62.3	5.2	-21.0	-1.6		0.0	2.8	0.0	0.0	19.4	
Motor & Pump P 1602 A	Leq,D	96.3	2	366.79	-62.3	5.2	-21.0	-1.6		0.0	2.8	0.0	0.0	19.4	
Motor & Pump P 1602 B	Leq,D	96.5	2	365.39	-62.2	5.2	-21.1	-1.6		0.0	2.8	0.0	0.0	19.6	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	387.09	-62.7	5.4	-21.8	-1.8	-0.18	0.0	3.4	0.0	0.0	18.9	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	385.54	-62.7	5.4	-18.8	-1.6	-0.18	0.0	3.9	0.0	0.0	22.7	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	384.74	-62.7	5.4	-19.0	-1.6	-0.18	0.0	1.8	0.0	0.0	20.4	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	394.50	-62.9	5.4	-18.5	-1.6	-0.31	0.0	4.5	0.0	0.0	23.3	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	393.92	-62.9	5.4	-18.7	-1.6	-0.31	0.0	2.5	0.0	0.0	21.1	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	376.66	-62.5	5.4	-19.4	-1.6	-0.02	0.0	1.2	0.0	0.0	19.4	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	378.85	-62.6	5.4	-19.4	-1.6	-0.08	0.0	0.9	0.0	0.0	19.0	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	382.70	-62.6	5.4	-19.3	-1.6	-0.17	0.0	0.9	0.0	0.0	18.9	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	381.00	-62.6	5.4	-19.3	-1.6	-0.13	0.0	0.9	0.0	0.0	18.9	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	442.99	-63.9	5.5	-11.3	-0.8	-0.03	0.0	1.0	-36.5	0.0	28.6	
Tank Farm Pump 1	Leq,D	99.0	3	184.09	-56.3	4.8	-20.7	-1.0		0.0	2.7	0.0	0.0	28.5	
Tank Farm Pump 2	Leq,D	99.0	3	173.66	-55.8	4.7	-10.2	-1.0		0.0	0.3	0.0	0.0	37.0	
Tank Farm Pump 3	Leq,D	99.0	3	171.31	-55.7	4.7	-4.6	-1.4		0.0	3.1	0.0	0.0	45.1	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	553.50	-65.9	4.9	-9.9	-3.9	-0.01	0.0	1.0	-14.8	0.0	23.9	
XF-1502 Splitter Area 1	Leq,D	104.5		382.15	-62.6	3.3	-13.2	-1.4	0.00	-3.0	1.7	0.0	0.0	29.3	
XF-1502 Splitter Area 2	Leq,D	104.5		383.37	-62.7	3.3	-18.6	-1.3		-2.7	4.6	0.0	0.0	27.2	
XF-1504 Splitter Area 1	Leq,D	104.5		377.98	-62.5	3.3	-13.2	-1.3	-0.01	-3.0	2.0	0.0	0.0	29.6	
XF-1504 Splitter Area 2	Leq,D	104.5		379.20	-62.6	3.3	-18.9	-1.3		-2.7	4.7	0.0	0.0	27.1	
XF 304, XF 321	Leq,D	110.5	56	438.24	-63.8	3.6	-14.7	-0.6		-1.5	0.0	0.0	0.0	33.5	
XF 313, XF 314	Leq,D	113.0	18	432.65	-63.7	4.0	-9.8	-1.1		-2.9	0.0	0.0	0.0	39.6	
XF 335-1, XF 335-2	Leq,D	113.4	54	435.64	-63.8	3.6	-15.7	-0.8	0.00	-1.6	0.0	0.0	0.0	35.2	
XF 503	Leq,D	113.0	21	434.59	-63.8	4.2	-17.8	-1.2	-0.58	-2.7	3.5	0.0	0.0	34.7	
XF - 1601	Leq,D	96.6		367.88	-62.3	3.0	-11.0	-0.5		-1.0	3.4	0.0	0.0	28.2	
XF - 1602	Leq,D	96.6		362.34	-62.2	3.0	-11.3	-0.5		-1.0	3.6	0.0	0.0	28.1	
XF Module 1510	Leq,D	108.3		390.09	-62.8	3.5	-19.0	-1.3	-0.23	-2.7	4.5	0.0	0.0	30.3	
XF Module 1519	Leq,D	109.0		388.35	-62.8	3.5	-13.6	-1.4	-0.24	-2.9	1.6	0.0	0.0	33.2	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								5.5			47.7	
Crude Operatoin Truck Truck Traffic	Leq,D		520								6.1			44.4	
Receiver N-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 73.9 dB(A) Ld 7-19 dB(A) Leq,N 48.2 dB(A) Le 19-22 dB(A) CNEL 72.0 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	506.99	-65.1	5.4	-19.6	-1.4	-0.05	0.0	0.1	-8.8	0.0	19.6	
Air Compressor C 1	Leq,D	110.0	5	508.89	-65.1	5.5	-22.2	-1.2		0.0	8.0	0.0	0.0	35.0	
Air Compressor Pump	Leq,D	100.3		437.67	-63.8	5.3	-19.4	-1.9		0.0	0.0	0.0	0.0	20.5	
Blower F 401	Leq,D	113.0		528.00	-65.4	5.3	-18.2	-0.6	-0.16	0.0	0.0	0.0	0.0	33.9	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	414.00	-63.3	5.2	-22.2	-1.0		0.0	1.5	0.0	0.0	18.7	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	542.50	-65.7	5.2	-20.0	-1.1	-0.88	0.4	0.0	0.0	0.0	22.7	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	537.19	-65.6	5.2	-12.6	-1.2	-1.08	0.0	0.0	0.0	0.0	25.2	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	547.71	-65.8	5.2	-14.1	-1.1	-0.59	4.4	0.0	0.0	0.0	34.6	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	552.54	-65.8	5.2	-23.0	-1.5	-1.03	-4.5	0.0	0.0	0.0	20.0	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	539.83	-65.6	5.2	-22.3	-1.3	-1.03	-4.5	0.0	0.0	0.0	14.1	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	560.56	-66.0	5.2	-22.7	-1.7	-0.77	-7.8	0.0	0.0	0.0	6.7	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	325.40	-61.2	4.9	-22.8	-1.9		0.0	0.3	-7.0	0.0	25.3	
Construciton Control Room Max Day	Leq,D	123.7	5461	325.40	-61.2	4.9	-22.8	-1.9		0.0	0.3	-1.0	0.0	42.1	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	256.37	-59.2	4.6	-10.0	-2.2		0.0	0.1	-1.0	0.0	56.1	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	54.80	-45.8	3.0	-5.6	-0.6		0.0	0.1	-1.0	0.0	73.8
Construction H2 Plant Max Day	Leq,D	123.7	9281	398.14	-63.0	5.1	-20.4	-1.6		0.0	0.0	-1.0	0.0	42.9
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	398.14	-63.0	5.1	-20.4	-1.6		0.0	0.0	-7.0	0.0	26.2
Construction PreTreat Building Max Day	Leq,D	123.7	6360	250.37	-59.0	4.6	-23.3	-1.8		0.0	3.2	-1.0	0.0	46.4
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	250.37	-59.0	4.6	-23.3	-1.8		0.0	3.2	-7.0	0.0	29.7
Construction Unit A Construction Max Day	Leq,D	123.7	3185	566.49	-66.1	5.4	-16.7	-2.1	-0.29	0.0	1.0	-1.0	0.0	44.0
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	384.22	-62.7	5.1	-22.7	-2.0		0.0	0.4	-7.0	0.0	24.0
Construction Unit B Max Day	Leq,D	123.7	20817	384.22	-62.7	5.1	-22.7	-2.0		0.0	0.4	-1.0	0.0	40.8
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	471.65	-64.5	5.1	-19.8	-1.2		0.4	0.8	0.0	0.0	18.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	483.48	-64.7	5.1	-23.0	-1.6		-7.8	0.0	0.0	0.0	5.9
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	448.65	-64.0	4.7	-16.7	-0.9		0.4	0.0	0.0	0.0	24.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	465.67	-64.4	4.9	-23.0	-1.6		-7.8	5.5	0.0	0.0	14.3
Cooling Tower M 512	Leq,D	95.7		479.70	-64.6	5.4	-24.2	-2.0		0.0	0.0	0.0	0.0	10.2
Cooling Tower M 513	Leq,D	95.7		481.10	-64.6	5.3	-24.1	-2.0		0.0	0.0	0.0	0.0	10.3
Cooling Tower M 514	Leq,D	95.7		478.31	-64.6	5.4	-24.3	-2.1		0.0	0.0	0.0	0.0	10.1
Heater # 5-Heater	Leq,D	91.1	13	409.14	-63.2	5.2	-23.8	-1.3		0.0	0.9	0.0	0.0	11.9
Heater # 5-Heater	Leq,D	91.1	13	411.82	-63.3	5.2	-23.8	-1.3		0.0	3.9	0.0	0.0	15.0
Heater # 5-Heater	Leq,D	91.1	13	414.63	-63.3	5.2	-24.1	-1.4		0.0	0.4	0.0	0.0	10.9
Hydro Heater H-402	Leq,D	98.1		505.36	-65.1	5.4	-24.6	-1.7		0.0	1.9	0.0	0.0	14.0
Motor & Pump P 56A/B	Leq,D	93.7		508.53	-65.1	5.4	-21.0	-2.0	-0.45	0.0	0.5	0.0	0.0	10.9
Motor & Pump P 120/121	Leq,D	96.2	2	510.70	-65.2	5.5	-20.9	-1.5	-0.23	0.0	0.0	0.0	0.0	13.9
Motor & Pump P 211/212	Leq,D	93.7		534.35	-65.5	5.5	-24.8	-3.6	-0.23	0.0	0.0	0.0	0.0	4.9
Motor & Pump P 215/214	Leq,D	94.6		533.15	-65.5	5.5	-18.0	-2.0	-0.61	0.0	0.0	0.0	0.0	13.9
Motor & Pump P 216	Leq,D	98.3		540.54	-65.6	5.4	-21.3	-2.1	-0.75	0.0	0.0	0.0	0.0	13.9
Motor & Pump P 217/218	Leq,D	93.7		534.01	-65.5	5.6	-24.8	-3.6	-0.25	0.0	0.0	0.0	0.0	5.0
Motor & Pump P 300	Leq,D	97.1	2	522.00	-65.3	5.5	-20.4	-1.5	-0.23	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 301	Leq,D	102.1	2	522.30	-65.4	5.5	-20.4	-1.5	-0.23	0.0	0.0	0.0	0.0	20.1
Motor & Pump P 302	Leq,D	97.1	2	521.68	-65.3	5.5	-19.3	-1.5	-0.01	0.0	0.0	0.0	0.0	16.4
Motor & Pump P 303	Leq,D	97.1	2	521.51	-65.3	5.5	-19.3	-1.5		0.0	0.0	0.0	0.0	16.5
Motor & Pump P 305	Leq,D	97.5	2	521.25	-65.3	5.5	-19.3	-1.5		0.0	0.0	0.0	0.0	16.8
Motor & Pump P 306	Leq,D	112.6	4	519.66	-65.3	5.4	-22.0	-1.7		0.0	0.3	0.0	0.0	29.3
Motor & Pump P 307	Leq,D	102.1	2	523.22	-65.4	5.5	-20.0	-1.5	-0.23	0.0	0.0	0.0	0.0	20.5
Motor & Pump P 309	Leq,D	97.5	2	521.00	-65.3	5.5	-23.2	-1.8		0.0	0.0	0.0	0.0	12.7
Motor & Pump P 312	Leq,D	101.5	2	527.86	-65.4	5.5	-21.0	-1.6	-0.55	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 313	Leq,D	101.5	2	528.28	-65.4	5.6	-21.8	-1.6	-0.24	0.0	0.0	0.0	0.0	18.0
Motor & Pump P 315	Leq,D	102.9	2	530.09	-65.5	5.5	-19.0	-1.5	-0.55	0.0	0.0	0.0	0.0	21.8
Motor & Pump P 316	Leq,D	102.9	2	530.59	-65.5	5.5	-19.0	-1.5	-0.55	0.0	0.2	0.0	0.0	22.0
Motor & Pump P 317	Leq,D	102.9	2	530.99	-65.5	5.5	-24.4	-2.1	-0.04	0.0	0.3	0.0	0.0	16.6
Motor & Pump P 318	Leq,D	100.2	1	529.12	-65.5	5.6	-16.9	-1.5	-0.55	0.0	0.0	0.0	0.0	21.4
Motor & Pump P 319	Leq,D	100.2	1	528.75	-65.5	5.6	-19.5	-1.5	-0.55	0.0	0.0	0.0	0.0	18.7
Motor & Pump P 327	Leq,D	111.2	3	519.15	-65.3	5.5	-24.2	-2.9		0.0	3.9	0.0	0.0	28.2
Motor & Pump P 328	Leq,D	109.9	5	520.54	-65.3	5.4	-22.9	-1.7		0.0	0.0	0.0	0.0	25.5
Motor & Pump P 329	Leq,D	110.2	5	520.07	-65.3	5.4	-23.2	-1.8		0.0	0.0	0.0	0.0	25.3
Motor & Pump P 451	Leq,D	93.7		506.42	-65.1	5.4	-22.6	-2.3		0.0	0.0	0.0	0.0	9.1
Motor & Pump P 453	Leq,D	93.7		507.62	-65.1	5.4	-18.8	-1.9		0.0	0.0	0.0	0.0	13.3
Motor & Pump P 454	Leq,D	93.7		507.70	-65.1	5.4	-22.5	-2.2		0.0	0.0	0.0	0.0	9.2
Motor & Pump P 457	Leq,D	93.7		508.15	-65.1	5.4	-18.8	-1.9		0.0	0.0	0.0	0.0	13.3
Motor & Pump P 458	Leq,D	93.7		505.33	-65.1	5.4	-22.6	-2.3		0.0	2.1	0.0	0.0	11.2
Motor & Pump P 459	Leq,D	93.7		507.38	-65.1	5.4	-22.5	-2.2		0.0	0.0	0.0	0.0	9.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		484.14	-64.7	5.4	-16.5	-1.9	-0.31	0.0	0.7	0.0	0.0	18.9
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		483.68	-64.7	5.4	-16.5	-1.9	-0.31	0.0	0.7	0.0	0.0	18.9
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		466.76	-64.4	5.4	-24.5	-3.0	-0.21	0.0	0.0	0.0	0.0	8.7
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		466.51	-64.4	5.4	-23.3	-2.4	-0.18	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 1601 A	Leq,D	96.3	2	456.83	-64.2	5.2	-16.8	-1.8		0.0	0.0	0.0	0.0	18.8
Motor & Pump P 1601 B	Leq,D	96.3	2	455.35	-64.2	5.2	-16.6	-1.8		0.0	0.0	0.0	0.0	19.0
Motor & Pump P 1602 A	Leq,D	96.3	2	454.29	-64.1	5.2	-16.3	-1.8		0.0	0.0	0.0	0.0	19.3
Motor & Pump P 1602 B	Leq,D	96.5	2	452.86	-64.1	5.2	-16.2	-1.8		0.0	0.0	0.0	0.0	19.7
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	475.02	-64.5	5.4	-24.8	-3.3	-0.24	0.0	0.0	0.0	0.0	9.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	473.74	-64.5	5.4	-16.8	-1.9	-0.18	0.0	0.0	0.0	0.0	18.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	473.08	-64.5	5.4	-16.9	-1.9	-0.18	0.0	0.0	0.0	0.0	18.6	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	482.73	-64.7	5.4	-16.6	-1.9	-0.31	0.0	0.0	0.0	0.0	18.7	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	482.24	-64.7	5.4	-16.6	-1.9	-0.31	0.0	0.0	0.0	0.0	18.7	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	465.16	-64.3	5.4	-17.4	-1.8	-0.02	0.0	0.0	0.0	0.0	18.1	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	467.38	-64.4	5.4	-18.2	-1.8	-0.07	0.0	0.0	0.0	0.0	17.3	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	471.30	-64.5	5.4	-19.7	-1.8	-0.17	0.0	0.0	0.0	0.0	15.6	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	469.57	-64.4	5.4	-18.9	-1.8	-0.13	0.0	0.0	0.0	0.0	16.5	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	519.82	-65.3	5.5	-17.0	-0.7	-0.14	0.0	0.0	-36.5	0.0	20.5	
Tank Farm Pump 1	Leq,D	99.0	3	246.69	-58.8	4.9	-24.4	-1.7		0.0	2.7	0.0	0.0	21.6	
Tank Farm Pump 2	Leq,D	99.0	3	230.64	-58.3	4.9	-24.4	-1.6		0.0	0.4	0.0	0.0	20.0	
Tank Farm Pump 3	Leq,D	99.0	3	226.47	-58.1	4.8	-24.5	-1.6		0.0	0.0	0.0	0.0	19.6	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	643.10	-67.2	4.9	-10.8	-4.1	-0.03	0.0	0.4	-14.8	0.0	20.9	
XF-1502 Splitter Area 1	Leq,D	104.5		470.52	-64.4	3.7	-11.5	-1.8	0.00	-3.2	0.0	0.0	0.0	27.3	
XF-1502 Splitter Area 2	Leq,D	104.5		471.54	-64.5	3.7	-11.6	-1.8		-3.2	0.0	0.0	0.0	27.2	
XF-1504 Splitter Area 1	Leq,D	104.5		466.28	-64.4	3.7	-11.7	-1.7	-0.01	-3.2	0.0	0.0	0.0	27.3	
XF-1504 Splitter Area 2	Leq,D	104.5		467.30	-64.4	3.7	-11.7	-1.7		-3.2	0.0	0.0	0.0	27.2	
XF 304, XF 321	Leq,D	110.5	56	528.50	-65.5	4.0	-15.0	-0.8		-1.5	0.0	0.0	0.0	31.8	
XF 313, XF 314	Leq,D	113.0	18	523.67	-65.4	4.3	-15.1	-1.2		-2.5	0.8	0.0	0.0	33.9	
XF 335-1, XF 335-2	Leq,D	113.4	54	526.22	-65.4	4.0	-14.6	-1.0	0.00	-1.6	0.0	0.0	0.0	34.7	
XF 503	Leq,D	113.0	21	522.69	-65.4	4.4	-13.7	-1.5	-0.58	-3.0	0.0	0.0	0.0	33.3	
XF - 1601	Leq,D	96.6		455.29	-64.2	3.0	-7.9	-0.9		-1.6	0.0	0.0	0.0	25.0	
XF - 1602	Leq,D	96.6		449.62	-64.0	3.0	-8.6	-0.8		-1.5	0.0	0.0	0.0	24.6	
XF Module 1510	Leq,D	108.3		478.16	-64.6	3.9	-11.9	-1.8	-0.24	-3.1	0.0	0.0	0.0	30.6	
XF Module 1519	Leq,D	109.0		476.70	-64.6	3.9	-11.8	-1.8	-0.24	-3.1	0.0	0.0	0.0	31.4	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								4.7			39.8	
Crude Operatoin Truck Truck Traffic	Leq,D		520								1.6			44.4	
Receiver E-1 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 64.8 dB(A)		Ld 7-19 dB(A)		Leq,N 45.9 dB(A)		Le 19-22 dB(A)		CNEL 63.1 dB(A)		Lmax day hr dB(A)		Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	589.30	-66.4	5.5	-22.3	-2.2	-0.02	0.0	0.0	-8.8	0.0	14.9	
Air Compressor C 1	Leq,D	110.0	5	604.29	-66.6	5.7	-23.8	-1.8		0.0	7.8	0.0	0.0	31.3	
Air Compressor Pump	Leq,D	100.3		521.34	-65.3	5.5	-24.2	-3.9		0.0	0.0	0.0	0.0	12.3	
Blower F 401	Leq,D	113.0		617.97	-66.8	5.5	-20.9	-0.8	-0.14	0.0	0.0	0.0	0.0	29.9	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	471.10	-64.5	5.4	-22.4	-1.2		0.0	1.4	0.0	0.0	17.3	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	635.20	-67.1	5.3	-23.5	-1.8	-0.41	0.3	0.0	0.0	0.0	17.7	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	630.08	-67.0	5.3	-23.2	-2.1	-0.72	0.0	0.0	0.0	0.0	12.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	640.87	-67.1	5.3	-21.8	-1.4	-0.61	4.6	0.0	0.0	0.0	25.5	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	645.24	-67.2	5.4	-24.4	-2.1	-0.35	-4.0	0.0	0.0	0.0	18.0	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	632.61	-67.0	5.3	-24.6	-2.2	-0.12	-3.9	0.0	0.0	0.0	11.2	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	653.61	-67.3	5.4	-23.8	-2.3	-0.34	-7.8	0.0	0.0	0.0	4.2	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	405.62	-63.2	5.2	-23.8	-2.6		0.0	0.0	-7.0	0.0	21.7	
Construciton Control Room Max Day	Leq,D	123.7	5461	405.62	-63.2	5.2	-23.8	-2.6		0.0	0.0	-1.0	0.0	38.4	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	247.36	-58.9	4.7	-17.5	-1.3		0.0	2.0	-1.0	0.0	51.9	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	40.93	-43.2	3.0	-18.4	-0.4		0.0	0.6	-1.0	0.0	64.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	487.75	-64.8	5.4	-23.7	-2.8		0.0	0.0	-1.0	0.0	36.8	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	487.75	-64.8	5.4	-23.7	-2.8		0.0	0.0	-7.0	0.0	20.1	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	313.35	-60.9	5.0	-20.5	-2.0		0.0	0.4	-1.0	0.0	44.7	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	313.35	-60.9	5.0	-20.5	-2.0		0.0	0.4	-7.0	0.0	28.0	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	661.62	-67.4	5.5	-23.9	-3.5	-0.37	0.0	0.1	-1.0	0.0	33.2	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	452.97	-64.1	5.3	-23.3	-2.6		0.0	0.1	-7.0	0.0	21.4	
Construction Unit B Max Day	Leq,D	123.7	20817	452.97	-64.1	5.3	-23.3	-2.6		0.0	0.1	-1.0	0.0	38.1	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	563.43	-66.0	5.3	-23.2	-1.8		0.3	0.5	0.0	0.0	12.9	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	575.46	-66.2	5.3	-23.7	-2.1		-7.8	0.0	0.0	0.0	3.3	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	539.89	-65.6	5.0	-22.2	-1.5		0.2	0.0	0.0	0.0	16.4	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	557.26	-65.9	5.1	-23.8	-2.1		-7.8	4.1	0.0	0.0	10.3	
Cooling Tower M 512	Leq,D	95.7		571.20	-66.1	5.5	-24.7	-2.6		0.0	0.0	0.0	0.0	7.9	
Cooling Tower M 513	Leq,D	95.7		572.63	-66.1	5.5	-24.6	-2.6		0.0	0.0	0.0	0.0	7.9	
Cooling Tower M 514	Leq,D	95.7		569.78	-66.1	5.5	-24.7	-2.6		0.0	0.0	0.0	0.0	7.9	
Heater # 5-Heater	Leq,D	91.1	13	466.19	-64.4	5.4	-23.7	-1.4		0.0	0.9	0.0	0.0	10.9	
Heater # 5-Heater	Leq,D	91.1	13	469.59	-64.4	5.4	-23.8	-1.4		0.0	3.2	0.0	0.0	13.0	
Heater # 5-Heater	Leq,D	91.1	13	473.09	-64.5	5.4	-24.1	-1.5		0.0	0.9	0.0	0.0	10.2	
Hydro Heater H-402	Leq,D	98.1		597.32	-66.5	5.6	-24.6	-1.9		0.0	0.0	0.0	0.0	10.7	
Motor & Pump P 56A/B	Leq,D	93.7		601.43	-66.6	5.6	-24.6	-3.7	-0.15	0.0	0.0	0.0	0.0	4.2	
Motor & Pump P 120/121	Leq,D	96.2	2	605.65	-66.6	5.6	-24.1	-2.2	-0.22	0.0	0.0	0.0	0.0	8.6	
Motor & Pump P 211/212	Leq,D	93.7		626.24	-66.9	5.6	-24.2	-3.4	-0.58	0.0	0.0	0.0	0.0	4.1	
Motor & Pump P 215/214	Leq,D	94.6		625.31	-66.9	5.6	-24.2	-3.4	-0.59	0.0	0.0	0.0	0.0	5.1	
Motor & Pump P 216	Leq,D	98.3		632.56	-67.0	5.6	-24.7	-4.0	-0.25	0.0	0.0	0.0	0.0	8.0	
Motor & Pump P 217/218	Leq,D	93.7		626.01	-66.9	5.7	-24.7	-3.9	-0.59	0.0	0.0	0.0	0.0	3.2	
Motor & Pump P 300	Leq,D	97.1	2	617.09	-66.8	5.6	-24.2	-2.3	-0.22	0.0	0.0	0.0	0.0	9.2	
Motor & Pump P 301	Leq,D	102.1	2	617.34	-66.8	5.6	-24.2	-2.3	-0.22	0.0	0.0	0.0	0.0	14.2	
Motor & Pump P 302	Leq,D	97.1	2	616.83	-66.8	5.6	-24.2	-2.3	-0.12	0.0	0.0	0.0	0.0	9.3	
Motor & Pump P 303	Leq,D	97.1	2	616.72	-66.8	5.6	-24.3	-2.4		0.0	0.0	0.0	0.0	9.3	
Motor & Pump P 305	Leq,D	97.5	2	616.51	-66.8	5.6	-24.2	-2.3		0.0	0.0	0.0	0.0	9.8	
Motor & Pump P 306	Leq,D	112.6	4	615.21	-66.8	5.6	-24.0	-2.7		0.0	0.4	0.0	0.0	25.1	
Motor & Pump P 307	Leq,D	102.1	2	618.09	-66.8	5.6	-24.1	-2.3	-0.22	0.0	0.0	0.0	0.0	14.3	
Motor & Pump P 309	Leq,D	97.5	2	616.31	-66.8	5.6	-24.5	-2.4		0.0	0.0	0.0	0.0	9.5	
Motor & Pump P 312	Leq,D	101.5	2	621.87	-66.9	5.7	-24.1	-2.3	-0.53	0.0	0.0	0.0	0.0	13.3	
Motor & Pump P 313	Leq,D	101.5	2	622.22	-66.9	5.7	-24.1	-2.3	-0.53	0.0	0.0	0.0	0.0	13.4	
Motor & Pump P 315	Leq,D	102.9	2	623.75	-66.9	5.6	-24.5	-2.5	-0.05	0.0	0.0	0.0	0.0	14.6	
Motor & Pump P 316	Leq,D	102.9	2	624.16	-66.9	5.6	-23.7	-2.2	-0.54	0.0	0.0	0.0	0.0	15.3	
Motor & Pump P 317	Leq,D	102.9	2	624.48	-66.9	5.6	-23.7	-2.2	-0.54	0.0	0.1	0.0	0.0	15.3	
Motor & Pump P 318	Leq,D	100.2	1	622.86	-66.9	5.7	-23.8	-2.2	-0.53	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P 319	Leq,D	100.2	1	622.56	-66.9	5.7	-23.8	-2.2	-0.53	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P 327	Leq,D	111.2	3	614.93	-66.8	5.6	-24.7	-3.6		0.0	2.2	0.0	0.0	24.0	
Motor & Pump P 328	Leq,D	109.9	5	615.91	-66.8	5.5	-24.4	-2.4		0.0	0.0	0.0	0.0	21.9	
Motor & Pump P 329	Leq,D	110.2	5	615.53	-66.8	5.5	-24.5	-2.4		0.0	0.1	0.0	0.0	22.1	
Motor & Pump P 451	Leq,D	93.7		597.98	-66.5	5.6	-24.3	-3.4		0.0	0.0	0.0	0.0	5.0	
Motor & Pump P 453	Leq,D	93.7		598.46	-66.5	5.6	-24.1	-3.2		0.0	0.0	0.0	0.0	5.4	
Motor & Pump P 454	Leq,D	93.7		599.31	-66.5	5.6	-24.3	-3.4		0.0	0.0	0.0	0.0	5.0	
Motor & Pump P 457	Leq,D	93.7		598.89	-66.5	5.6	-24.1	-3.2		0.0	0.0	0.0	0.0	5.4	
Motor & Pump P 458	Leq,D	93.7		596.87	-66.5	5.6	-24.3	-3.4		0.0	0.0	0.0	0.0	5.0	
Motor & Pump P 459	Leq,D	93.7		599.04	-66.5	5.6	-24.3	-3.4		0.0	0.0	0.0	0.0	5.0	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		577.05	-66.2	5.6	-24.1	-3.1	-0.30	0.0	0.0	0.0	0.0	8.0	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		576.67	-66.2	5.6	-24.1	-3.1	-0.30	0.0	0.0	0.0	0.0	8.0	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		561.23	-66.0	5.6	-24.7	-3.6	-0.21	0.0	0.0	0.0	0.0	6.5	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		561.04	-66.0	5.6	-24.6	-3.5	-0.18	0.0	0.0	0.0	0.0	6.8	
Motor & Pump P 1601 A	Leq,D	96.3	2	549.36	-65.8	5.4	-24.1	-3.1		0.0	0.0	0.0	0.0	8.8	
Motor & Pump P 1601 B	Leq,D	96.3	2	547.85	-65.8	5.4	-24.1	-3.1		0.0	0.0	0.0	0.0	8.8	
Motor & Pump P 1602 A	Leq,D	96.3	2	546.76	-65.7	5.4	-24.1	-3.0		0.0	0.0	0.0	0.0	8.8	
Motor & Pump P 1602 B	Leq,D	96.5	2	545.31	-65.7	5.4	-24.1	-3.0		0.0	0.0	0.0	0.0	9.1	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	567.83	-66.1	5.6	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.3	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	566.81	-66.1	5.6	-24.1	-3.1	-0.17	0.0	0.0	0.0	0.0	8.7	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	566.27	-66.1	5.6	-24.1	-3.1	-0.17	0.0	0.0	0.0	0.0	8.7	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	575.79	-66.2	5.6	-24.1	-3.1	-0.30	0.0	0.0	0.0	0.0	8.6	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	575.39	-66.2	5.6	-24.1	-3.1	-0.30	0.0	0.0	0.0	0.0	8.6	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	558.53	-65.9	5.6	-24.1	-3.1	-0.02	0.0	0.0	0.0	0.0	8.7	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	560.78	-66.0	5.6	-24.1	-3.1	-0.07	0.0	0.0	0.0	0.0	8.6	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	564.74	-66.0	5.6	-24.1	-3.1	-0.16	0.0	0.0	0.0	0.0	8.5	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	562.99	-66.0	5.6	-24.1	-3.1	-0.12	0.0	0.0	0.0	0.0	8.6	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	602.95	-66.6	5.6	-20.9	-0.8	-0.06	0.0	0.0	-36.5	0.0	15.5	
Tank Farm Pump 1	Leq,D	99.0	3	324.65	-61.2	5.3	-24.5	-2.1		0.0	0.9	0.0	0.0	17.4	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Tank Farm Pump 2	Leq,D	99.0	3	305.89	-60.7	5.3	-24.4	-2.0		0.0	0.0	0.0	0.0	17.2	
Tank Farm Pump 3	Leq,D	99.0	3	300.83	-60.6	5.3	-24.5	-2.0		0.0	0.0	0.0	0.0	17.2	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	737.75	-68.4	5.1	-21.3	-2.1	-0.03	0.0	0.0	-14.8	0.0	11.0	
XF-1502 Splitter Area 1	Leq,D	104.5		563.75	-66.0	4.2	-22.9	-2.3	0.00	-2.6	0.0	0.0	0.0	14.9	
XF-1502 Splitter Area 2	Leq,D	104.5		564.57	-66.0	4.2	-22.9	-2.3		-2.6	0.0	0.0	0.0	14.9	
XF-1504 Splitter Area 1	Leq,D	104.5		559.45	-65.9	4.2	-22.9	-2.2	-0.01	-2.6	0.0	0.0	0.0	15.0	
XF-1504 Splitter Area 2	Leq,D	104.5		560.27	-66.0	4.1	-22.9	-2.2		-2.6	0.0	0.0	0.0	14.9	
XF 304, XF 321	Leq,D	110.5	56	623.50	-66.9	4.3	-20.9	-1.0		-1.3	0.0	0.0	0.0	24.7	
XF 313, XF 314	Leq,D	113.0	18	619.52	-66.8	4.6	-22.4	-1.5		-2.3	0.0	0.0	0.0	24.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	621.65	-66.9	4.3	-21.5	-1.5	0.00	-1.5	0.0	0.0	0.0	26.4	
XF 503	Leq,D	113.0	21	615.37	-66.8	4.7	-23.4	-2.9	-0.20	-2.9	0.0	0.0	0.0	21.6	
XF - 1601	Leq,D	96.6		547.68	-65.8	3.3	-20.1	-0.9		-0.9	0.0	0.0	0.0	12.2	
XF - 1602	Leq,D	96.6		541.91	-65.7	3.2	-20.1	-0.8		-0.9	0.0	0.0	0.0	12.3	
XF Module 1510	Leq,D	108.3		571.08	-66.1	4.3	-23.0	-2.3	-0.22	-2.6	0.0	0.0	0.0	18.5	
XF Module 1519	Leq,D	109.0		569.90	-66.1	4.3	-22.9	-2.3	-0.21	-2.6	0.0	0.0	0.0	19.3	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								15.4			45.3	
Crude Operatoin Truck Truck Traffic	Leq,D		520								11.3			44.0	
Receiver E-2 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D	65.9 dB(A)	Ld 7-19	dB(A)	Leq,N	51.8 dB(A)	Le 19-22	dB(A)	CNEL	64.8 dB(A)	Lmax day hr	dB(A)	Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	554.79	-65.9	5.5	-11.5	-3.0	0.00	0.0	0.1	-8.8	0.0	25.4	
Air Compressor C 1	Leq,D	110.0	5	601.19	-66.6	5.6	-22.5	-1.4		0.0	9.1	0.0	0.0	34.3	
Air Compressor Pump	Leq,D	100.3		491.19	-64.8	5.5	-21.7	-2.5		0.0	0.1	0.0	0.0	16.8	
Blower F 401	Leq,D	113.0		598.06	-66.5	5.5	-18.6	-0.7	-0.06	0.0	0.0	0.0	0.0	32.5	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	410.98	-63.3	5.3	-20.2	-0.9		0.0	1.0	0.0	0.0	20.5	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	622.04	-66.9	5.3	-19.0	-1.1	-0.72	-0.2	0.0	0.0	0.0	22.2	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	617.57	-66.8	5.3	-18.8	-1.4	-0.71	0.0	0.0	0.0	0.0	18.3	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	628.97	-67.0	5.3	-17.1	-1.1	-0.72	2.1	0.0	0.0	0.0	28.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	631.95	-67.0	5.3	-22.3	-1.5	-0.71	-1.6	0.0	0.0	0.0	22.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	619.77	-66.8	5.3	-22.2	-1.4	-0.71	-1.5	0.0	0.0	0.0	16.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	641.27	-67.1	5.3	-23.0	-1.9	-0.61	-7.8	0.0	0.0	0.0	5.3	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	372.88	-62.4	5.1	-14.6	-2.2		0.0	0.4	-7.0	0.0	32.3	
Construciton Control Room Max Day	Leq,D	123.7	5461	372.88	-62.4	5.1	-14.6	-2.2		0.0	0.4	-1.0	0.0	49.0	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	157.16	-54.9	4.0	-14.4	-1.0		0.0	2.0	-1.0	0.0	58.4	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	61.77	-46.8	3.0	-16.8	-0.5		0.0	1.8	-1.0	0.0	63.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	468.32	-64.4	5.3	-21.0	-1.8		0.0	0.4	-1.0	0.0	41.3	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	468.32	-64.4	5.3	-21.0	-1.8		0.0	0.4	-7.0	0.0	24.5	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	264.84	-59.5	4.8	-8.7	-1.8		0.0	0.3	-1.0	0.0	57.8	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	264.84	-59.5	4.8	-8.7	-1.8		0.0	0.3	-7.0	0.0	41.1	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	656.56	-67.3	5.5	-21.5	-2.4	-0.55	0.0	0.0	-1.0	0.0	36.5	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	403.33	-63.1	5.2	-11.7	-2.6		0.0	0.1	-7.0	0.0	33.9	
Construction Unit B Max Day	Leq,D	123.7	20817	403.33	-63.1	5.2	-11.7	-2.6		0.0	0.1	-1.0	0.0	50.7	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	548.89	-65.8	5.3	-21.7	-1.5		-0.3	0.3	0.0	0.0	14.2	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	561.25	-66.0	5.3	-22.8	-1.7		-7.8	0.0	0.0	0.0	4.8	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	524.42	-65.4	5.0	-18.0	-1.1		-0.4	0.0	0.0	0.0	20.7	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	542.33	-65.7	5.1	-23.1	-1.8		-7.8	5.8	0.0	0.0	13.2	
Cooling Tower M 512	Leq,D	95.7		555.81	-65.9	5.5	-24.1	-2.3		0.0	0.0	0.0	0.0	8.9	
Cooling Tower M 513	Leq,D	95.7		557.25	-65.9	5.5	-24.0	-2.2		0.0	0.0	0.0	0.0	9.1	
Cooling Tower M 514	Leq,D	95.7		554.32	-65.9	5.5	-24.3	-2.3		0.0	0.0	0.0	0.0	8.8	
Heater # 5-Heater	Leq,D	91.1	13	406.17	-63.2	5.3	-23.2	-1.2		0.0	1.5	0.0	0.0	13.4	
Heater # 5-Heater	Leq,D	91.1	13	410.09	-63.2	5.3	-23.1	-1.1		0.0	2.7	0.0	0.0	14.6	
Heater # 5-Heater	Leq,D	91.1	13	414.14	-63.3	5.3	-23.7	-1.3		0.0	1.9	0.0	0.0	13.0	
Hydro Heater H-402	Leq,D	98.1		582.67	-66.3	5.5	-23.5	-1.5		0.0	0.8	0.0	0.0	13.1	
Motor & Pump P 56A/B	Leq,D	93.7		589.38	-66.4	5.6	-20.7	-2.2	-0.14	0.0	0.0	0.0	0.0	9.7	
Motor & Pump P 120/121	Leq,D	96.2	2	600.61	-66.6	5.6	-22.6	-1.9	-0.23	0.0	0.0	0.0	0.0	10.6	
Motor & Pump P 211/212	Leq,D	93.7		610.98	-66.7	5.6	-20.7	-2.3	-0.58	0.0	0.0	0.0	0.0	9.0	
Motor & Pump P 215/214	Leq,D	94.6		610.79	-66.7	5.6	-22.0	-2.4	-0.59	0.0	0.0	0.0	0.0	8.5	

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 216	Leq,D	98.3		617.53	-66.8	5.6	-21.1	-2.3	-0.73	0.0	0.0	0.0	0.0	12.9
Motor & Pump P 217/218	Leq,D	93.7		611.02	-66.7	5.7	-21.7	-2.4	-0.58	0.0	0.0	0.0	0.0	8.0
Motor & Pump P 300	Leq,D	97.1	2	612.51	-66.7	5.6	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.5
Motor & Pump P 301	Leq,D	102.1	2	612.51	-66.7	5.6	-22.3	-1.9	-0.23	0.0	0.0	0.0	0.0	16.5
Motor & Pump P 302	Leq,D	97.1	2	612.52	-66.7	5.6	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.5
Motor & Pump P 303	Leq,D	97.1	2	612.63	-66.7	5.6	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.5
Motor & Pump P 305	Leq,D	97.5	2	612.64	-66.7	5.6	-23.1	-2.0	-0.22	0.0	0.0	0.0	0.0	11.1
Motor & Pump P 306	Leq,D	112.6	4	612.70	-66.7	5.5	-22.3	-2.0		0.0	0.4	0.0	0.0	27.5
Motor & Pump P 307	Leq,D	102.1	2	612.53	-66.7	5.6	-20.3	-1.7	-0.53	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 309	Leq,D	97.5	2	612.66	-66.7	5.6	-23.7	-2.1		0.0	0.0	0.0	0.0	10.6
Motor & Pump P 312	Leq,D	101.5	2	613.06	-66.7	5.7	-20.9	-1.8	-0.53	0.0	0.0	0.0	0.0	17.3
Motor & Pump P 313	Leq,D	101.5	2	613.14	-66.7	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	18.0
Motor & Pump P 315	Leq,D	102.9	2	613.73	-66.8	5.6	-19.6	-1.7	-0.53	0.0	0.0	0.0	0.0	19.9
Motor & Pump P 316	Leq,D	102.9	2	613.85	-66.8	5.6	-19.6	-1.7	-0.53	0.0	0.0	0.0	0.0	19.9
Motor & Pump P 317	Leq,D	102.9	2	613.88	-66.8	5.6	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	14.9
Motor & Pump P 318	Leq,D	100.2	1	613.12	-66.7	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 319	Leq,D	100.2	1	613.04	-66.7	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 327	Leq,D	111.2	3	613.61	-66.7	5.6	-24.3	-3.3		0.0	1.4	0.0	0.0	24.0
Motor & Pump P 328	Leq,D	109.9	5	612.54	-66.7	5.5	-22.9	-1.9		0.0	0.0	0.0	0.0	23.9
Motor & Pump P 329	Leq,D	110.2	5	612.59	-66.7	5.5	-23.3	-2.0		0.0	0.0	0.0	0.0	23.6
Motor & Pump P 451	Leq,D	93.7		582.27	-66.3	5.5	-20.9	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 453	Leq,D	93.7		580.91	-66.3	5.5	-21.0	-2.2		0.0	0.0	0.0	0.0	9.7
Motor & Pump P 454	Leq,D	93.7		583.70	-66.3	5.5	-20.9	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 457	Leq,D	93.7		581.12	-66.3	5.5	-21.0	-2.2		0.0	0.0	0.0	0.0	9.7
Motor & Pump P 458	Leq,D	93.7		581.13	-66.3	5.5	-20.9	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 459	Leq,D	93.7		583.58	-66.3	5.5	-20.9	-2.2		0.0	0.1	0.0	0.0	9.9
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		565.39	-66.0	5.6	-20.9	-2.2	-0.30	0.0	0.0	0.0	0.0	12.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		565.27	-66.0	5.6	-20.9	-2.2	-0.30	0.0	0.0	0.0	0.0	12.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		555.03	-65.9	5.6	-24.3	-3.2	-0.21	0.0	0.0	0.0	0.0	7.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		555.02	-65.9	5.6	-24.2	-3.1	-0.20	0.0	0.0	0.0	0.0	7.5
Motor & Pump P 1601 A	Leq,D	96.3	2	537.11	-65.6	5.4	-21.0	-2.1		0.0	0.0	0.0	0.0	13.1
Motor & Pump P 1601 B	Leq,D	96.3	2	535.56	-65.6	5.4	-21.0	-2.1		0.0	0.0	0.0	0.0	13.1
Motor & Pump P 1602 A	Leq,D	96.3	2	534.41	-65.5	5.4	-21.0	-2.1		0.0	0.0	0.0	0.0	13.1
Motor & Pump P 1602 B	Leq,D	96.5	2	532.91	-65.5	5.4	-21.0	-2.1		0.0	0.0	0.0	0.0	13.3
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	556.05	-65.9	5.6	-21.0	-2.2	-0.17	0.0	0.0	0.0	0.0	13.0
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	555.80	-65.9	5.6	-21.0	-2.2	-0.17	0.0	0.0	0.0	0.0	13.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	555.65	-65.9	5.6	-21.5	-2.2	-0.17	0.0	0.0	0.0	0.0	12.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	564.61	-66.0	5.6	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.4
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	564.50	-66.0	5.6	-21.0	-2.2	-0.30	0.0	0.0	0.0	0.0	12.8
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	548.60	-65.8	5.6	-21.7	-2.2	-0.02	0.0	0.0	0.0	0.0	12.2
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	550.90	-65.8	5.6	-21.6	-2.2	-0.07	0.0	0.0	0.0	0.0	12.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	554.93	-65.9	5.6	-21.6	-2.2	-0.16	0.0	0.0	0.0	0.0	12.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	553.14	-65.8	5.6	-21.6	-2.2	-0.12	0.0	0.0	0.0	0.0	12.1
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	569.64	-66.1	5.6	-10.8	-1.2	-0.02	0.0	0.0	-36.5	0.0	25.8
Tank Farm Pump 1	Leq,D	99.0	3	293.80	-60.4	5.2	-23.9	-1.8		0.0	0.1	0.0	0.0	18.4
Tank Farm Pump 2	Leq,D	99.0	3	272.84	-59.7	5.2	-24.5	-1.8		0.0	1.0	0.0	0.0	19.1
Tank Farm Pump 3	Leq,D	99.0	3	267.06	-59.5	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.2
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	719.06	-68.1	5.1	-14.3	-2.8	-0.02	0.0	0.1	-14.8	0.0	17.6
XF-1502 Splitter Area 1	Leq,D	104.5		553.34	-65.9	4.1	-18.7	-1.8	0.00	-2.6	0.0	0.0	0.0	19.7
XF-1502 Splitter Area 2	Leq,D	104.5		553.56	-65.9	4.1	-18.5	-1.8		-2.6	0.0	0.0	0.0	19.9
XF-1504 Splitter Area 1	Leq,D	104.5		548.94	-65.8	4.1	-18.7	-1.8	-0.01	-2.6	0.0	0.0	0.0	19.7
XF-1504 Splitter Area 2	Leq,D	104.5		549.16	-65.8	4.1	-18.5	-1.8		-2.6	0.0	0.0	0.0	20.0
XF 304, XF 321	Leq,D	110.5	56	618.60	-66.8	4.3	-16.5	-0.9		-1.4	0.0	0.0	0.0	29.2
XF 313, XF 314	Leq,D	113.0	18	619.23	-66.8	4.6	-17.7	-1.3		-2.4	0.0	0.0	0.0	29.4
XF 335-1, XF 335-2	Leq,D	113.4	54	618.53	-66.8	4.3	-15.8	-1.1	0.00	-1.5	0.0	0.0	0.0	32.4
XF 503	Leq,D	113.0	21	602.62	-66.6	4.7	-19.4	-1.7	-0.38	-2.7	0.0	0.0	0.0	27.1
XF - 1601	Leq,D	96.6		535.16	-65.6	3.2	-14.0	-0.8		-1.1	0.0	0.0	0.0	18.3
XF - 1602	Leq,D	96.6		529.25	-65.5	3.2	-14.0	-0.8		-1.1	0.0	0.0	0.0	18.4
XF Module 1510	Leq,D	108.3		559.60	-65.9	4.3	-18.7	-1.8	-0.22	-2.6	0.0	0.0	0.0	23.3
XF Module 1519	Leq,D	109.0		559.27	-65.9	4.3	-18.7	-1.8	-0.22	-2.6	0.0	0.0	0.0	24.1

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								8.3			48.6	
Crude Operatoin Truck Truck Traffic	Leq,D		520								4.6			46.7	
Receiver E-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 68.6 dB(A)		Ld 7-19	dB(A)	Leq,N 48.8 dB(A)		Le 19-22	dB(A)	CNEL 66.9 dB(A)		Lmax day hr	dB(A)	Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	539.27	-65.6	5.5	-18.6	-1.3	-0.02	0.0	0.0	-8.8	0.0	20.2	
Air Compressor C 1	Leq,D	110.0	5	606.76	-66.7	5.7	-22.2	-1.4		0.0	13.9	0.0	0.0	39.4	
Air Compressor Pump	Leq,D	100.3		479.86	-64.6	5.4	-22.3	-2.6		0.0	0.0	0.0	0.0	16.2	
Blower F 401	Leq,D	113.0		592.32	-66.4	5.5	-18.9	-0.7		0.0	0.0	0.0	0.0	32.4	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	378.16	-62.5	5.3	-21.0	-0.8		0.0	0.2	0.0	0.0	19.7	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	620.63	-66.8	5.3	-22.3	-1.5	-0.57	-0.7	0.0	0.0	0.0	18.2	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	616.66	-66.8	5.3	-19.9	-1.4	-0.72	0.0	0.0	0.0	0.0	17.1	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	628.26	-67.0	5.3	-23.5	-1.7	-0.34	-0.2	0.0	0.0	0.0	19.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	630.42	-67.0	5.3	-19.6	-1.1	-0.71	0.3	0.0	0.0	0.0	27.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	618.60	-66.8	5.3	-18.5	-1.1	-0.71	0.5	0.0	0.0	0.0	22.5	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	640.19	-67.1	5.3	-23.6	-2.1	-0.53	-7.8	0.0	0.0	0.0	4.6	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	362.46	-62.2	5.1	-18.2	-1.2		0.0	0.0	-7.0	0.0	29.5	
Construciton Control Room Max Day	Leq,D	123.7	5461	362.46	-62.2	5.1	-18.2	-1.2		0.0	0.0	-1.0	0.0	46.3	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	98.48	-50.9	3.1	-11.7	-0.8		0.0	2.7	-1.0	0.0	65.2	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	121.04	-52.7	3.4	-7.3	-1.0		0.0	0.6	-1.0	0.0	65.7	
Construction H2 Plant Max Day	Leq,D	123.7	9281	465.14	-64.3	5.3	-19.0	-1.6		0.0	0.3	-1.0	0.0	43.4	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	465.14	-64.3	5.3	-19.0	-1.6		0.0	0.3	-7.0	0.0	26.7	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	246.33	-58.8	4.7	-20.6	-1.2		0.0	0.2	-1.0	0.0	47.1	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	246.33	-58.8	4.7	-20.6	-1.2		0.0	0.2	-7.0	0.0	30.4	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	660.19	-67.4	5.5	-16.3	-2.7	-0.69	0.0	0.2	-1.0	0.0	41.4	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	379.15	-62.6	5.1	-21.9	-1.8		0.0	0.1	-7.0	0.0	24.9	
Construction Unit B Max Day	Leq,D	123.7	20817	379.15	-62.6	5.1	-21.9	-1.8		0.0	0.1	-1.0	0.0	41.7	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	547.51	-65.8	5.3	-22.7	-1.6		-0.8	0.0	0.0	0.0	12.4	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	559.92	-66.0	5.3	-23.2	-1.8		-7.8	0.0	0.0	0.0	4.3	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	522.78	-65.4	5.0	-18.2	-1.1		-0.7	0.0	0.0	0.0	20.2	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	540.79	-65.7	5.1	-23.5	-1.9		-7.8	3.6	0.0	0.0	10.6	
Cooling Tower M 512	Leq,D	95.7		553.75	-65.9	5.5	-20.5	-1.9		0.0	0.0	0.0	0.0	13.0	
Cooling Tower M 513	Leq,D	95.7		555.19	-65.9	5.5	-20.4	-1.9		0.0	0.0	0.0	0.0	13.0	
Cooling Tower M 514	Leq,D	95.7		552.24	-65.8	5.5	-20.5	-1.9		0.0	0.0	0.0	0.0	13.0	
Heater # 5-Heater	Leq,D	91.1	13	373.51	-62.4	5.3	-23.3	-1.1		0.0	1.6	0.0	0.0	14.1	
Heater # 5-Heater	Leq,D	91.1	13	377.80	-62.5	5.3	-23.3	-1.1		0.0	2.2	0.0	0.0	14.5	
Heater # 5-Heater	Leq,D	91.1	13	382.22	-62.6	5.3	-23.6	-1.2		0.0	1.7	0.0	0.0	13.6	
Hydro Heater H-402	Leq,D	98.1		580.75	-66.3	5.5	-23.5	-1.5		0.0	0.0	0.0	0.0	12.4	
Motor & Pump P 56A/B	Leq,D	93.7		589.13	-66.4	5.6	-22.4	-2.5	-0.14	0.0	0.0	0.0	0.0	7.8	
Motor & Pump P 120/121	Leq,D	96.2	2	604.90	-66.6	5.6	-9.7	-1.9	-0.53	0.0	0.0	0.0	0.0	23.0	
Motor & Pump P 211/212	Leq,D	93.7		608.27	-66.7	5.6	-20.2	-2.2	-0.57	0.0	0.0	0.0	0.0	9.6	
Motor & Pump P 215/214	Leq,D	94.6		608.59	-66.7	5.6	-20.2	-2.2	-0.58	0.0	0.0	0.0	0.0	10.5	
Motor & Pump P 216	Leq,D	98.3		614.91	-66.8	5.6	-20.1	-2.3	-0.72	0.0	0.0	0.0	0.0	14.1	
Motor & Pump P 217/218	Leq,D	93.7		608.51	-66.7	5.7	-20.3	-2.3	-0.58	0.0	0.0	0.0	0.0	9.6	
Motor & Pump P 300	Leq,D	97.1	2	616.96	-66.8	5.6	-15.5	-1.8	-0.53	0.0	0.0	0.0	0.0	18.1	
Motor & Pump P 301	Leq,D	102.1	2	616.79	-66.8	5.6	-9.5	-2.0	-0.53	0.0	0.0	0.0	0.0	28.9	
Motor & Pump P 302	Leq,D	97.1	2	617.14	-66.8	5.6	-9.1	-2.0	-0.53	0.0	0.0	0.0	0.0	24.3	
Motor & Pump P 303	Leq,D	97.1	2	617.40	-66.8	5.6	-9.1	-2.0	-0.50	0.0	0.0	0.0	0.0	24.3	
Motor & Pump P 305	Leq,D	97.5	2	617.56	-66.8	5.6	-9.2	-2.0	-0.22	0.0	0.0	0.0	0.0	24.9	
Motor & Pump P 306	Leq,D	112.6	4	618.51	-66.8	5.6	-22.0	-1.9		0.0	0.4	0.0	0.0	27.9	
Motor & Pump P 307	Leq,D	102.1	2	616.33	-66.8	5.6	-21.0	-1.8	-0.53	0.0	0.0	0.0	0.0	17.6	
Motor & Pump P 309	Leq,D	97.5	2	617.72	-66.8	5.6	-22.3	-1.9	-0.23	0.0	0.0	0.0	0.0	11.9	
Motor & Pump P 312	Leq,D	101.5	2	614.69	-66.8	5.7	-20.1	-1.7	-0.53	0.0	0.5	0.0	0.0	18.6	
Motor & Pump P 313	Leq,D	101.5	2	614.59	-66.8	5.7	-20.1	-1.7	-0.53	0.0	0.5	0.0	0.0	18.6	
Motor & Pump P 315	Leq,D	102.9	2	614.54	-66.8	5.6	-20.0	-1.7	-0.53	0.0	0.0	0.0	0.0	19.5	
Motor & Pump P 316	Leq,D	102.9	2	614.46	-66.8	5.6	-24.7	-2.5		0.0	0.0	0.0	0.0	14.5	
Motor & Pump P 317	Leq,D	102.9	2	614.29	-66.8	5.6	-21.4	-1.8	-0.53	0.0	0.0	0.0	0.0	18.0	
Motor & Pump P 318	Leq,D	100.2	1	614.13	-66.8	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P 319	Leq,D	100.2	1	614.20	-66.8	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8	
Motor & Pump P 327	Leq,D	111.2	3	620.19	-66.8	5.6	-23.9	-3.2		0.0	1.1	0.0	0.0	24.0	
Motor & Pump P 328	Leq,D	109.9	5	617.77	-66.8	5.5	-21.8	-1.8	-0.18	0.0	0.0	0.0	0.0	24.9	
Motor & Pump P 329	Leq,D	110.2	5	618.10	-66.8	5.6	-23.2	-2.0		0.0	0.0	0.0	0.0	23.7	
Motor & Pump P 451	Leq,D	93.7		579.62	-66.3	5.5	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4	
Motor & Pump P 453	Leq,D	93.7		577.03	-66.2	5.5	-18.2	-2.1		0.0	0.0	0.0	0.0	12.7	
Motor & Pump P 454	Leq,D	93.7		581.10	-66.3	5.5	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4	
Motor & Pump P 457	Leq,D	93.7		577.08	-66.2	5.5	-18.2	-2.1		0.0	0.0	0.0	0.0	12.7	
Motor & Pump P 458	Leq,D	93.7		578.47	-66.2	5.5	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4	
Motor & Pump P 459	Leq,D	93.7		581.09	-66.3	5.5	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		565.72	-66.0	5.6	-24.8	-3.7		0.0	0.0	0.0	0.0	7.2	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		565.79	-66.0	5.6	-21.6	-2.2	-0.29	0.0	0.0	0.0	0.0	11.6	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		559.16	-65.9	5.6	-23.2	-2.6	-0.20	0.0	9.0	0.0	0.0	18.0	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		559.28	-65.9	5.6	-24.1	-3.1	-0.21	0.0	10.2	0.0	0.0	17.9	
Motor & Pump P 1601 A	Leq,D	96.3	2	537.47	-65.6	5.4	-21.8	-2.2		0.0	0.0	0.0	0.0	12.2	
Motor & Pump P 1601 B	Leq,D	96.3	2	535.92	-65.6	5.4	-21.8	-2.2		0.0	0.0	0.0	0.0	12.2	
Motor & Pump P 1602 A	Leq,D	96.3	2	534.74	-65.6	5.4	-21.8	-2.2		0.0	0.0	0.0	0.0	12.2	
Motor & Pump P 1602 B	Leq,D	96.5	2	533.24	-65.5	5.4	-21.9	-2.2		0.0	0.0	0.0	0.0	12.4	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	556.43	-65.9	5.6	-21.8	-2.2	-0.17	0.0	0.0	0.0	0.0	12.1	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	556.72	-65.9	5.6	-24.8	-3.6	-0.24	0.0	0.0	0.0	0.0	7.6	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	556.84	-65.9	5.6	-21.7	-2.2	-0.17	0.0	1.9	0.0	0.0	14.1	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	565.28	-66.0	5.6	-21.6	-2.2	-0.30	0.0	0.0	0.0	0.0	12.1	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	565.36	-66.0	5.6	-21.6	-2.2	-0.30	0.0	0.0	0.0	0.0	12.1	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	550.35	-65.8	5.6	-21.6	-2.2	-0.02	0.0	1.9	0.0	0.0	14.1	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	552.65	-65.8	5.6	-21.6	-2.2	-0.07	0.0	1.9	0.0	0.0	14.1	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	556.66	-65.9	5.6	-21.5	-2.2	-0.16	0.0	1.9	0.0	0.0	14.0	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	554.88	-65.9	5.6	-21.5	-2.2	-0.12	0.0	1.9	0.0	0.0	14.1	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	554.40	-65.9	5.6	-16.4	-0.7	-0.07	0.0	0.0	-36.5	0.0	20.7	
Tank Farm Pump 1	Leq,D	99.0	3	287.91	-60.2	5.2	-24.0	-1.8		0.0	0.0	0.0	0.0	18.2	
Tank Farm Pump 2	Leq,D	99.0	3	266.42	-59.5	5.2	-24.4	-1.8		0.0	1.2	0.0	0.0	19.7	
Tank Farm Pump 3	Leq,D	99.0	3	260.42	-59.3	5.1	-24.5	-1.8		0.0	2.6	0.0	0.0	21.2	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	713.06	-68.1	5.1	-14.0	-3.2	-0.02	0.0	0.1	-14.8	0.0	17.6	
XF-1502 Splitter Area 1	Leq,D	104.5		554.70	-65.9	4.1	-19.3	-1.8	0.00	-2.6	1.2	0.0	0.0	20.3	
XF-1502 Splitter Area 2	Leq,D	104.5		554.50	-65.9	4.1	-24.4	-2.7		-3.1	0.0	0.0	0.0	12.6	
XF-1504 Splitter Area 1	Leq,D	104.5		550.29	-65.8	4.1	-19.3	-1.8	-0.01	-2.6	1.2	0.0	0.0	20.3	
XF-1504 Splitter Area 2	Leq,D	104.5		550.10	-65.8	4.1	-24.5	-2.8		-3.3	0.1	0.0	0.0	12.4	
XF 304, XF 321	Leq,D	110.5	56	622.74	-66.9	4.3	-12.7	-1.1		-1.7	0.0	0.0	0.0	32.4	
XF 313, XF 314	Leq,D	113.0	18	626.21	-66.9	4.6	-15.9	-1.4		-2.5	0.0	0.0	0.0	31.0	
XF 335-1, XF 335-2	Leq,D	113.4	54	623.88	-66.9	4.3	-14.5	-1.4	0.00	-1.8	0.0	0.0	0.0	33.2	
XF 503	Leq,D	113.0	21	601.74	-66.6	4.7	-19.4	-1.6	-0.39	-2.6	0.0	0.0	0.0	27.0	
XF - 1601	Leq,D	96.6		535.37	-65.6	3.2	-14.7	-0.8		-1.0	0.0	0.0	0.0	17.6	
XF - 1602	Leq,D	96.6		529.45	-65.5	3.2	-14.8	-0.8		-1.0	0.0	0.0	0.0	17.7	
XF Module 1510	Leq,D	108.3		560.14	-66.0	4.3	-19.5	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.6	
XF Module 1519	Leq,D	109.0		560.38	-66.0	4.3	-24.3	-2.7	-0.04	-3.0	0.1	0.0	0.0	17.4	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								13.3			47.7	
Crude Operatoin Truck Truck Traffic	Leq,D		520								4.2			45.3	
Receiver E-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.5 dB(A) Ld 7-19 dB(A) Leq,N 47.3 dB(A) Le 19-22 dB(A) CNEL 65.7 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	530.71	-65.5	5.5	-19.7	-1.5	-0.01	0.0	0.1	-8.8	0.0	19.2	
Air Compressor C 1	Leq,D	110.0	5	617.56	-66.8	5.7	-22.8	-1.5		0.0	8.7	0.0	0.0	33.2	
Air Compressor Pump	Leq,D	100.3		476.31	-64.5	5.4	-21.7	-2.8		0.0	0.0	0.0	0.0	16.7	
Blower F 401	Leq,D	113.0		592.81	-66.5	5.5	-20.2	-0.7		0.0	0.0	0.0	0.0	31.1	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	354.45	-62.0	5.2	-21.7	-0.9		0.0	0.0	0.0	0.0	19.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	624.91	-66.9	5.3	-22.7	-1.5	-0.64	-0.5	0.0	0.0	0.0	17.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	621.42	-66.9	5.3	-22.0	-1.7	-0.67	0.0	0.0	0.0	0.0	14.6	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	633.29	-67.0	5.3	-23.5	-1.7	-0.71	-2.0	0.0	0.0	0.0	16.9	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	634.29	-67.0	5.3	-22.5	-1.5	-0.71	2.6	0.0	0.0	0.0	26.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	623.10	-66.9	5.3	-24.7	-2.2	-0.11	2.9	1.7	0.0	0.0	19.8	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	644.61	-67.2	5.3	-24.0	-2.3	-0.56	-7.8	0.0	0.0	0.0	3.9	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	362.38	-62.2	5.1	-20.6	-1.7		0.0	0.7	-7.0	0.0	27.3	
Construciton Control Room Max Day	Leq,D	123.7	5461	362.38	-62.2	5.1	-20.6	-1.7		0.0	0.7	-1.0	0.0	44.1	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	43.90	-43.8	3.0	-17.1	-0.4		0.0	1.5	-1.0	0.0	66.0	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	175.95	-55.9	4.2	-10.2	-1.2		0.0	1.8	-1.0	0.0	61.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	469.41	-64.4	5.3	-21.7	-2.0		0.0	2.0	-1.0	0.0	42.0	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	469.41	-64.4	5.3	-21.7	-2.0		0.0	2.0	-7.0	0.0	25.3	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	242.88	-58.7	4.7	-21.2	-1.4		0.0	2.5	-1.0	0.0	48.5	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	242.88	-58.7	4.7	-21.2	-1.4		0.0	2.5	-7.0	0.0	31.8	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	668.72	-67.5	5.5	-22.1	-2.6	-0.61	0.0	0.1	-1.0	0.0	35.5	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	364.58	-62.2	5.1	-22.0	-2.0		0.0	0.2	-7.0	0.0	25.1	
Construction Unit B Max Day	Leq,D	123.7	20817	364.58	-62.2	5.1	-22.0	-2.0		0.0	0.2	-1.0	0.0	41.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	552.51	-65.8	5.3	-23.2	-1.8		-0.3	0.0	0.0	0.0	12.1	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	564.84	-66.0	5.3	-23.7	-2.0		-7.8	0.0	0.0	0.0	3.6	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	527.84	-65.4	5.0	-19.0	-1.1		-0.2	0.0	0.0	0.0	19.8	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	545.72	-65.7	5.1	-23.8	-2.0		-7.8	3.1	0.0	0.0	9.5	
Cooling Tower M 512	Leq,D	95.7		558.05	-65.9	5.5	-23.1	-2.1		0.0	0.0	0.0	0.0	10.1	
Cooling Tower M 513	Leq,D	95.7		559.47	-65.9	5.5	-23.1	-2.1		0.0	0.0	0.0	0.0	10.1	
Cooling Tower M 514	Leq,D	95.7		556.54	-65.9	5.5	-23.1	-2.1		0.0	0.0	0.0	0.0	10.2	
Heater # 5-Heater	Leq,D	91.1	13	350.07	-61.9	5.2	-23.3	-1.1		0.0	1.6	0.0	0.0	14.6	
Heater # 5-Heater	Leq,D	91.1	13	354.68	-62.0	5.2	-23.3	-1.1		0.0	2.0	0.0	0.0	15.0	
Heater # 5-Heater	Leq,D	91.1	13	359.41	-62.1	5.2	-23.5	-1.1		0.0	1.0	0.0	0.0	13.6	
Hydro Heater H-402	Leq,D	98.1		584.91	-66.3	5.5	-24.0	-1.6		0.0	0.0	0.0	0.0	11.7	
Motor & Pump P 56A/B	Leq,D	93.7		594.75	-66.5	5.6	-22.9	-2.7	-0.14	0.0	0.0	0.0	0.0	7.0	
Motor & Pump P 120/121	Leq,D	96.2	2	614.55	-66.8	5.6	-20.8	-1.8	-0.54	0.0	0.0	0.0	0.0	11.9	
Motor & Pump P 211/212	Leq,D	93.7		611.45	-66.7	5.6	-23.7	-3.0	-0.57	0.0	0.0	0.0	0.0	5.3	
Motor & Pump P 215/214	Leq,D	94.6		612.24	-66.7	5.6	-23.0	-2.7	-0.58	0.0	0.0	0.0	0.0	7.2	
Motor & Pump P 216	Leq,D	98.3		618.10	-66.8	5.6	-23.6	-3.0	-0.72	0.0	0.0	0.0	0.0	9.8	
Motor & Pump P 217/218	Leq,D	93.7		611.86	-66.7	5.7	-23.1	-2.7	-0.58	0.0	0.0	0.0	0.0	6.3	
Motor & Pump P 300	Leq,D	97.1	2	626.65	-66.9	5.6	-20.7	-1.8	-0.54	0.0	0.2	0.0	0.0	12.9	
Motor & Pump P 301	Leq,D	102.1	2	626.33	-66.9	5.6	-20.7	-1.8	-0.54	0.0	0.0	0.0	0.0	17.8	
Motor & Pump P 302	Leq,D	97.1	2	626.99	-66.9	5.6	-20.7	-1.8	-0.54	0.0	0.0	0.0	0.0	12.8	
Motor & Pump P 303	Leq,D	97.1	2	627.38	-66.9	5.6	-20.7	-1.8	-0.54	0.0	0.0	0.0	0.0	12.8	
Motor & Pump P 305	Leq,D	97.5	2	627.67	-66.9	5.6	-20.7	-1.8	-0.54	0.0	0.0	0.0	0.0	13.2	
Motor & Pump P 306	Leq,D	112.6	4	629.43	-67.0	5.6	-22.8	-2.2		0.0	0.6	0.0	0.0	26.9	
Motor & Pump P 307	Leq,D	102.1	2	625.44	-66.9	5.6	-24.1	-2.3	-0.44	0.0	0.0	0.0	0.0	14.1	
Motor & Pump P 309	Leq,D	97.5	2	627.97	-67.0	5.6	-23.1	-2.0	-0.54	0.0	0.0	0.0	0.0	10.5	
Motor & Pump P 312	Leq,D	101.5	2	621.82	-66.9	5.7	-19.8	-1.8	-0.54	0.0	0.0	0.0	0.0	18.3	
Motor & Pump P 313	Leq,D	101.5	2	621.56	-66.9	5.7	-19.8	-1.7	-0.54	0.0	0.0	0.0	0.0	18.3	
Motor & Pump P 315	Leq,D	102.9	2	620.92	-66.9	5.6	-21.9	-1.9	-0.23	0.0	0.0	0.0	0.0	17.7	
Motor & Pump P 316	Leq,D	102.9	2	620.66	-66.8	5.6	-21.6	-1.8	-0.23	0.0	0.0	0.0	0.0	18.0	
Motor & Pump P 317	Leq,D	102.9	2	620.31	-66.8	5.6	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	17.1	
Motor & Pump P 318	Leq,D	100.2	1	620.69	-66.8	5.7	-19.8	-1.7	-0.52	0.0	0.0	0.0	0.0	17.0	
Motor & Pump P 319	Leq,D	100.2	1	620.90	-66.9	5.7	-24.8	-2.6		0.0	0.0	0.0	0.0	11.7	
Motor & Pump P 327	Leq,D	111.2	3	631.80	-67.0	5.6	-24.3	-3.4		0.0	1.2	0.0	0.0	23.3	
Motor & Pump P 328	Leq,D	109.9	5	628.18	-67.0	5.6	-23.5	-2.1	-0.54	0.0	0.0	0.0	0.0	22.4	
Motor & Pump P 329	Leq,D	110.2	5	628.77	-67.0	5.6	-23.8	-2.2	-0.13	0.0	0.0	0.0	0.0	22.6	
Motor & Pump P 451	Leq,D	93.7		583.12	-66.3	5.5	-23.1	-2.7		0.0	0.0	0.0	0.0	7.2	
Motor & Pump P 453	Leq,D	93.7		579.39	-66.3	5.5	-24.3	-3.3		0.0	0.0	0.0	0.0	5.4	
Motor & Pump P 454	Leq,D	93.7		584.64	-66.3	5.5	-23.1	-2.7		0.0	0.0	0.0	0.0	7.1	
Motor & Pump P 457	Leq,D	93.7		579.30	-66.3	5.5	-24.3	-3.3		0.0	0.0	0.0	0.0	5.3	
Motor & Pump P 458	Leq,D	93.7		581.97	-66.3	5.5	-23.1	-2.7		0.0	0.0	0.0	0.0	7.2	
Motor & Pump P 459	Leq,D	93.7		584.72	-66.3	5.5	-23.1	-2.7		0.0	0.0	0.0	0.0	7.1	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		572.12	-66.1	5.6	-24.9	-3.8		0.0	0.0	0.0	0.0	7.0	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		572.35	-66.1	5.6	-24.9	-3.8		0.0	0.0	0.0	0.0	7.0	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		569.11	-66.1	5.6	-22.3	-2.4	-0.18	0.0	2.5	0.0	0.0	12.6	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		569.34	-66.1	5.6	-24.5	-3.4	-0.21	0.0	0.0	0.0	0.0	6.7	
Motor & Pump P 1601 A	Leq,D	96.3	2	544.19	-65.7	5.4	-21.3	-2.1		0.0	0.0	0.0	0.0	12.6	
Motor & Pump P 1601 B	Leq,D	96.3	2	542.65	-65.7	5.4	-21.3	-2.1		0.0	0.0	0.0	0.0	12.6	
Motor & Pump P 1602 A	Leq,D	96.3	2	541.47	-65.7	5.4	-21.3	-2.1		0.0	0.0	0.0	0.0	12.7	
Motor & Pump P 1602 B	Leq,D	96.5	2	539.98	-65.6	5.4	-21.3	-2.1		0.0	0.0	0.0	0.0	12.9	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	562.97	-66.0	5.6	-21.2	-2.2	-0.17	0.0	0.0	0.0	0.0	12.6	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	563.74	-66.0	5.6	-21.2	-2.2	-0.17	0.0	0.0	0.0	0.0	12.6	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	564.11	-66.0	5.6	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.4	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	572.00	-66.1	5.6	-21.2	-2.2	-0.30	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	572.25	-66.1	5.6	-21.2	-2.2	-0.30	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	558.21	-65.9	5.6	-21.2	-2.2	-0.02	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	560.48	-66.0	5.6	-21.2	-2.2	-0.07	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	564.44	-66.0	5.6	-21.2	-2.2	-0.16	0.0	0.0	0.0	0.0	12.3	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	562.67	-66.0	5.6	-21.2	-2.2	-0.12	0.0	0.0	0.0	0.0	12.4	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	546.06	-65.7	5.6	-17.8	-0.7	-0.04	0.0	0.1	-36.5	0.0	19.6	
Tank Farm Pump 1	Leq,D	99.0	3	294.03	-60.4	5.2	-23.4	-1.6		0.0	0.0	0.0	0.0	18.9	
Tank Farm Pump 2	Leq,D	99.0	3	272.96	-59.7	5.2	-23.5	-1.5		0.0	0.7	0.0	0.0	20.0	
Tank Farm Pump 3	Leq,D	99.0	3	267.04	-59.5	5.2	-23.6	-1.5		0.0	2.1	0.0	0.0	21.7	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	712.88	-68.1	5.1	-19.5	-1.5	-0.02	0.0	0.1	-14.8	0.0	13.7	
XF-1502 Splitter Area 1	Leq,D	104.5		562.15	-66.0	4.2	-19.6	-1.8	0.00	-2.6	0.0	0.0	0.0	18.8	
XF-1502 Splitter Area 2	Leq,D	104.5		561.58	-66.0	4.1	-19.6	-1.8		-2.6	0.0	0.0	0.0	18.8	
XF-1504 Splitter Area 1	Leq,D	104.5		557.79	-65.9	4.1	-19.6	-1.8	-0.01	-2.6	0.0	0.0	0.0	18.8	
XF-1504 Splitter Area 2	Leq,D	104.5		557.22	-65.9	4.1	-19.6	-1.8		-2.6	0.0	0.0	0.0	18.8	
XF 304, XF 321	Leq,D	110.5	56	632.11	-67.0	4.4	-18.5	-0.9		-1.3	0.0	0.0	0.0	27.1	
XF 313, XF 314	Leq,D	113.0	18	638.41	-67.1	4.7	-20.7	-1.4		-2.3	0.0	0.0	0.0	26.2	
XF 335-1, XF 335-2	Leq,D	113.4	54	634.33	-67.0	4.4	-19.6	-1.2	0.00	-1.4	0.0	0.0	0.0	28.6	
XF 503	Leq,D	113.0	21	606.69	-66.7	4.7	-21.4	-2.0	-0.42	-2.6	0.0	0.0	0.0	24.7	
XF - 1601	Leq,D	96.6		541.99	-65.7	3.2	-15.9	-0.8		-1.0	0.0	0.0	0.0	16.4	
XF - 1602	Leq,D	96.6		536.12	-65.6	3.2	-16.0	-0.8		-1.0	0.0	0.0	0.0	16.4	
XF Module 1510	Leq,D	108.3		566.78	-66.1	4.3	-19.7	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.3	
XF Module 1519	Leq,D	109.0		567.56	-66.1	4.3	-19.7	-1.8	-0.22	-2.6	0.0	0.0	0.0	23.0	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								11.1			50.6	
Crude Operatoin Truck Truck Traffic	Leq,D		520								12.7			42.4	
Receiver E-5 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 69.2 dB(A)		Ld 7-19 dB(A)		Leq,N 54.0 dB(A)		Le 19-22 dB(A)		CNEL 68.1 dB(A)		Lmax day hr dB(A)		Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	526.63	-65.4	5.5	-12.7	-1.7	0.00	0.0	0.0	-8.8	0.0	25.8	
Air Compressor C 1	Leq,D	110.0	5	637.41	-67.1	5.7	-21.8	-1.5	-0.39	0.0	7.1	0.0	0.0	32.0	
Air Compressor Pump	Leq,D	100.3		479.78	-64.6	5.4	-23.6	-3.2		0.0	0.0	0.0	0.0	14.3	
Blower F 401	Leq,D	113.0		599.60	-66.5	5.5	-19.1	-0.7		0.0	0.0	0.0	0.0	32.1	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	333.12	-61.4	5.2	-14.5	-0.6		0.0	0.0	0.0	0.0	27.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	636.26	-67.1	5.4	-21.6	-1.3	-0.73	0.0	0.0	0.0	0.0	19.5	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	633.45	-67.0	5.3	-19.3	-1.5	-0.69	0.0	0.0	0.0	0.0	17.4	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	645.42	-67.2	5.4	-23.1	-1.7	-0.62	-3.9	0.0	0.0	0.0	15.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	645.24	-67.2	5.4	-21.6	-1.4	-0.72	4.6	0.0	0.0	0.0	29.7	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	634.78	-67.0	5.3	-21.8	-1.4	-0.73	4.6	2.4	0.0	0.0	25.1	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	655.90	-67.3	5.4	-22.5	-1.9	-0.71	-7.8	0.0	0.0	0.0	5.5	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	373.57	-62.4	5.2	-21.2	-1.8		0.0	0.0	-7.0	0.0	25.8	
Construciton Control Room Max Day	Leq,D	123.7	5461	373.57	-62.4	5.2	-21.2	-1.8		0.0	0.0	-1.0	0.0	42.5	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	43.21	-43.7	3.0	-17.0	-0.3		0.0	3.1	-1.0	0.0	67.8	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	249.68	-58.9	4.7	-15.0	-1.4		0.0	4.0	-1.0	0.0	56.1	
Construction H2 Plant Max Day	Leq,D	123.7	9281	483.34	-64.7	5.3	-19.5	-1.9		0.0	0.1	-1.0	0.0	42.1	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	483.34	-64.7	5.3	-19.5	-1.9		0.0	0.1	-7.0	0.0	25.3	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	256.88	-59.2	4.7	-18.6	-1.3		0.0	0.0	-1.0	0.0	48.4	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	256.88	-59.2	4.7	-18.6	-1.3		0.0	0.0	-7.0	0.0	31.7	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	685.16	-67.7	5.5	-21.8	-2.7	-0.54	0.0	0.0	-1.0	0.0	35.5	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	356.41	-62.0	5.1	-15.2	-1.7		0.0	0.0	-7.0	0.0	32.2	
Construction Unit B Max Day	Leq,D	123.7	20817	356.41	-62.0	5.1	-15.2	-1.7		0.0	0.0	-1.0	0.0	48.9	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	565.80	-66.0	5.3	-21.6	-1.6		0.2	0.0	0.0	0.0	14.2	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	577.82	-66.2	5.3	-22.1	-1.7		-7.8	0.0	0.0	0.0	5.3	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	541.59	-65.7	5.0	-19.1	-1.2		0.3	0.0	0.0	0.0	20.0	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	559.02	-65.9	5.1	-22.5	-1.8		-7.8	2.0	0.0	0.0	9.8	
Cooling Tower M 512	Leq,D	95.7		570.35	-66.1	5.5	-21.0	-2.0		0.0	0.0	0.0	0.0	12.1	
Cooling Tower M 513	Leq,D	95.7		571.72	-66.1	5.5	-21.0	-2.0		0.0	0.0	0.0	0.0	12.1	
Cooling Tower M 514	Leq,D	95.7		568.85	-66.1	5.5	-21.0	-2.0		0.0	0.0	0.0	0.0	12.1	
Heater # 5-Heater	Leq,D	91.1	13	329.30	-61.3	5.2	-19.2	-0.8		0.0	0.8	0.0	0.0	18.7	
Heater # 5-Heater	Leq,D	91.1	13	334.20	-61.5	5.2	-19.4	-0.8		0.0	1.0	0.0	0.0	18.6	
Heater # 5-Heater	Leq,D	91.1	13	339.23	-61.6	5.2	-19.8	-0.8		0.0	0.0	0.0	0.0	17.1	
Hydro Heater H-402	Leq,D	98.1		596.62	-66.5	5.6	-20.5	-1.2		0.0	0.0	0.0	0.0	15.4	
Motor & Pump P 56A/B	Leq,D	93.7		608.24	-66.7	5.6	-22.4	-2.7	-0.14	0.0	0.9	0.0	0.0	8.2	
Motor & Pump P 120/121	Leq,D	96.2	2	632.96	-67.0	5.6	-22.8	-2.1	-0.24	0.0	0.0	0.0	0.0	9.6	
Motor & Pump P 211/212	Leq,D	93.7		621.52	-66.9	5.6	-22.0	-2.8	-0.60	0.0	0.0	0.0	0.0	7.1	
Motor & Pump P 215/214	Leq,D	94.6		622.91	-66.9	5.6	-20.5	-2.4	-0.60	0.0	0.0	0.0	0.0	9.9	
Motor & Pump P 216	Leq,D	98.3		628.11	-67.0	5.6	-22.4	-2.8	-0.74	0.0	0.0	0.0	0.0	11.0	
Motor & Pump P 217/218	Leq,D	93.7		622.16	-66.9	5.7	-20.5	-2.3	-0.59	0.0	0.0	0.0	0.0	9.1	
Motor & Pump P 300	Leq,D	97.1	2	644.97	-67.2	5.6	-20.6	-1.8	-0.56	0.0	0.0	0.0	0.0	12.6	
Motor & Pump P 301	Leq,D	102.1	2	644.47	-67.2	5.6	-20.6	-1.8	-0.56	0.0	0.0	0.0	0.0	17.6	
Motor & Pump P 302	Leq,D	97.1	2	645.52	-67.2	5.6	-22.6	-2.1	-0.24	0.0	0.0	0.0	0.0	10.6	
Motor & Pump P 303	Leq,D	97.1	2	646.07	-67.2	5.6	-20.6	-1.8	-0.56	0.0	0.0	0.0	0.0	12.5	
Motor & Pump P 305	Leq,D	97.5	2	646.53	-67.2	5.6	-20.6	-1.9	-0.56	0.0	0.0	0.0	0.0	12.9	
Motor & Pump P 306	Leq,D	112.6	4	649.30	-67.2	5.6	-22.5	-2.2	-0.48	0.0	0.4	0.0	0.0	26.2	
Motor & Pump P 307	Leq,D	102.1	2	643.02	-67.2	5.6	-23.6	-2.3	-0.54	0.0	0.0	0.0	0.0	14.1	
Motor & Pump P 309	Leq,D	97.5	2	646.99	-67.2	5.6	-21.7	-1.9	-0.56	0.0	0.0	0.0	0.0	11.7	
Motor & Pump P 312	Leq,D	101.5	2	636.90	-67.1	5.7	-21.4	-1.9	-0.33	0.0	0.0	0.0	0.0	16.5	
Motor & Pump P 313	Leq,D	101.5	2	636.43	-67.1	5.7	-21.6	-1.9	-0.24	0.0	0.0	0.0	0.0	16.4	
Motor & Pump P 315	Leq,D	102.9	2	635.04	-67.0	5.6	-21.5	-1.9	-0.24	0.0	0.0	0.0	0.0	17.9	
Motor & Pump P 316	Leq,D	102.9	2	634.55	-67.0	5.6	-21.7	-2.0	-0.24	0.0	0.0	0.0	0.0	17.6	
Motor & Pump P 317	Leq,D	102.9	2	633.97	-67.0	5.6	-21.5	-1.9	-0.24	0.0	0.0	0.0	0.0	17.8	
Motor & Pump P 318	Leq,D	100.2	1	635.05	-67.0	5.7	-21.4	-1.9	-0.24	0.0	0.0	0.0	0.0	15.3	
Motor & Pump P 319	Leq,D	100.2	1	635.43	-67.1	5.7	-21.4	-1.9	-0.24	0.0	0.0	0.0	0.0	15.3	
Motor & Pump P 327	Leq,D	111.2	3	652.51	-67.3	5.6	-23.5	-3.2		0.0	2.0	0.0	0.0	24.9	
Motor & Pump P 328	Leq,D	109.9	5	647.40	-67.2	5.6	-22.9	-2.1	-0.55	0.0	0.0	0.0	0.0	22.7	
Motor & Pump P 329	Leq,D	110.2	5	648.31	-67.2	5.6	-23.2	-2.2	-0.53	0.0	0.0	0.0	0.0	22.5	
Motor & Pump P 451	Leq,D	93.7		593.99	-66.5	5.6	-20.7	-2.3		0.0	0.0	0.0	0.0	9.7	
Motor & Pump P 453	Leq,D	93.7		588.85	-66.4	5.5	-23.1	-3.0		0.0	0.0	0.0	0.0	6.7	
Motor & Pump P 454	Leq,D	93.7		595.53	-66.5	5.6	-20.7	-2.3		0.0	0.0	0.0	0.0	9.7	
Motor & Pump P 457	Leq,D	93.7		588.56	-66.4	5.5	-23.0	-2.9		0.0	0.0	0.0	0.0	6.9	
Motor & Pump P 458	Leq,D	93.7		592.86	-66.5	5.6	-20.8	-2.3		0.0	0.0	0.0	0.0	9.7	
Motor & Pump P 459	Leq,D	93.7		595.74	-66.5	5.6	-20.8	-2.3		0.0	0.0	0.0	0.0	9.6	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		586.92	-66.4	5.6	-21.9	-2.4	-0.15	0.0	0.7	0.0	0.0	11.7	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		587.36	-66.4	5.6	-21.6	-2.4	-0.29	0.0	0.0	0.0	0.0	11.1	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		588.49	-66.4	5.6	-22.7	-2.6	-0.18	0.0	0.0	0.0	0.0	9.1	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		588.87	-66.4	5.6	-23.8	-3.3	-0.22	0.0	0.0	0.0	0.0	7.3	
Motor & Pump P 1601 A	Leq,D	96.3	2	559.82	-66.0	5.5	-21.8	-2.3		0.0	0.0	0.0	0.0	11.7	
Motor & Pump P 1601 B	Leq,D	96.3	2	558.33	-65.9	5.5	-21.8	-2.3		0.0	0.0	0.0	0.0	11.7	
Motor & Pump P 1602 A	Leq,D	96.3	2	557.15	-65.9	5.5	-21.8	-2.3		0.0	0.0	0.0	0.0	11.7	
Motor & Pump P 1602 B	Leq,D	96.5	2	555.71	-65.9	5.5	-21.8	-2.3		0.0	0.0	0.0	0.0	11.9	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	578.08	-66.2	5.6	-23.4	-3.2	-0.20	0.0	0.0	0.0	0.0	9.1	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	579.46	-66.3	5.6	-21.7	-2.4	-0.18	0.0	0.0	0.0	0.0	11.6	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	580.14	-66.3	5.6	-21.8	-2.4	-0.18	0.0	0.0	0.0	0.0	11.6	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	587.20	-66.4	5.6	-23.4	-3.3		0.0	0.0	0.0	0.0	9.3	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	587.68	-66.4	5.6	-21.7	-2.4	-0.31	0.0	0.0	0.0	0.0	11.5	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	575.08	-66.2	5.6	-21.8	-2.4	-0.02	0.0	0.0	0.0	0.0	11.5	

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	577.28	-66.2	5.6	-21.8	-2.4	-0.07	0.0	0.0	0.0	0.0	11.4	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	581.12	-66.3	5.6	-22.0	-2.5	-0.17	0.0	0.0	0.0	0.0	10.9	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	579.40	-66.3	5.6	-21.8	-2.4	-0.13	0.0	0.0	0.0	0.0	11.3	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	541.95	-65.7	5.6	-11.1	-0.8	-0.02	0.0	0.0	-36.5	0.0	26.1	
Tank Farm Pump 1	Leq,D	99.0	3	316.00	-61.0	5.3	-16.0	-1.4		0.0	0.0	0.0	0.0	25.9	
Tank Farm Pump 2	Leq,D	99.0	3	296.55	-60.4	5.2	-22.0	-1.5		0.0	0.0	0.0	0.0	20.3	
Tank Farm Pump 3	Leq,D	99.0	3	291.08	-60.3	5.2	-22.0	-1.5		0.0	0.0	0.0	0.0	20.4	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	718.45	-68.1	5.1	-14.1	-1.8	-0.01	0.0	0.0	-14.8	0.0	18.7	
XF-1502 Splitter Area 1	Leq,D	104.5		578.45	-66.2	4.2	-23.1	-2.5	0.00	-2.9	0.0	0.0	0.0	14.0	
XF-1502 Splitter Area 2	Leq,D	104.5		577.41	-66.2	4.2	-20.4	-1.9		-2.5	0.0	0.0	0.0	17.8	
XF-1504 Splitter Area 1	Leq,D	104.5		574.22	-66.2	4.2	-23.2	-2.6	0.00	-3.0	0.0	0.0	0.0	13.8	
XF-1504 Splitter Area 2	Leq,D	104.5		573.17	-66.2	4.2	-20.4	-1.9		-2.5	0.0	0.0	0.0	17.8	
XF 304, XF 321	Leq,D	110.5	56	649.96	-67.2	4.4	-18.7	-0.9		-1.3	0.0	0.0	0.0	26.7	
XF 313, XF 314	Leq,D	113.0	18	659.56	-67.4	4.7	-13.0	-1.5	-0.01	-2.6	0.2	0.0	0.0	33.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	653.53	-67.3	4.4	-19.6	-1.2	0.00	-1.4	0.0	0.0	0.0	28.3	
XF 503	Leq,D	113.0	21	619.16	-66.8	4.7	-20.2	-1.9	-0.34	-2.6	0.0	0.0	0.0	25.9	
XF - 1601	Leq,D	96.6		557.53	-65.9	3.3	-16.7	-0.8		-0.9	0.0	0.0	0.0	15.5	
XF - 1602	Leq,D	96.6		551.84	-65.8	3.3	-16.7	-0.8		-1.0	0.0	0.0	0.0	15.5	
XF Module 1510	Leq,D	108.3		581.98	-66.3	4.4	-23.2	-2.7	-0.02	-3.2	0.0	0.0	0.0	17.3	
XF Module 1519	Leq,D	109.0		583.43	-66.3	4.4	-20.4	-1.9	-0.22	-2.5	0.0	0.0	0.0	22.0	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								2.3			62.5	
Crude Operatoin Truck Truck Traffic	Leq,D		520								11.7			35.8	
Receiver E-6 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 68.7 dB(A)		Ld 7-19	dB(A)	Leq,N 54.4 dB(A)		Le 19-22	dB(A)	CNEL 67.7 dB(A)		Lmax day hr	dB(A)	Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	484.87	-64.7	5.4	-13.8	-1.5	0.00	0.0	0.0	-8.8	0.0	25.7	
Air Compressor C 1	Leq,D	110.0	5	599.04	-66.5	5.6	-21.9	-1.4	-0.42	0.0	6.2	0.0	0.0	31.6	
Air Compressor Pump	Leq,D	100.3		439.58	-63.9	5.4	-24.1	-3.5		0.0	0.0	0.0	0.0	14.2	
Blower F 401	Leq,D	113.0		559.55	-65.9	5.4	-20.4	-0.7		0.0	0.0	0.0	0.0	31.4	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	293.45	-60.3	5.0	-18.4	-0.6		0.0	0.0	0.0	0.0	24.3	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	596.63	-66.5	5.3	-22.6	-1.5	-0.73	0.1	0.0	0.0	0.0	18.9	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	593.90	-66.5	5.3	-19.7	-1.5	-0.73	0.0	0.0	0.0	0.0	17.5	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	605.87	-66.6	5.3	-23.5	-1.7	-0.69	-4.1	0.0	0.0	0.0	15.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	605.54	-66.6	5.3	-22.8	-1.5	-0.64	4.6	0.0	0.0	0.0	28.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	595.19	-66.5	5.3	-22.9	-1.5	-0.73	4.5	2.6	0.0	0.0	24.5	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	616.25	-66.8	5.3	-22.8	-1.9	-0.71	-7.8	0.0	0.0	0.0	5.7	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	334.12	-61.5	5.0	-22.3	-1.9		0.0	0.2	-7.0	0.0	25.6	
Construciton Control Room Max Day	Leq,D	123.7	5461	334.12	-61.5	5.0	-22.3	-1.9		0.0	0.2	-1.0	0.0	42.3	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	29.41	-40.4	3.0	-18.8	-0.3		0.0	0.9	-1.0	0.0	67.2	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	244.26	-58.7	4.7	-23.4	-1.8		0.0	2.7	-1.0	0.0	46.2	
Construction H2 Plant Max Day	Leq,D	123.7	9281	444.08	-63.9	5.3	-21.9	-2.2		0.0	0.2	-1.0	0.0	40.1	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	444.08	-63.9	5.3	-21.9	-2.2		0.0	0.2	-7.0	0.0	23.4	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	217.90	-57.8	4.5	-20.6	-1.5		0.0	0.2	-1.0	0.0	47.6	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	217.90	-57.8	4.5	-20.6	-1.5		0.0	0.2	-7.0	0.0	30.8	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	646.16	-67.2	5.5	-22.4	-2.9	-0.50	0.0	0.1	-1.0	0.0	35.2	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	314.58	-60.9	5.0	-16.1	-1.5		0.0	0.2	-7.0	0.0	32.5	
Construction Unit B Max Day	Leq,D	123.7	20817	314.58	-60.9	5.0	-16.1	-1.5		0.0	0.2	-1.0	0.0	49.3	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	526.49	-65.4	5.3	-21.4	-1.5		0.3	0.0	0.0	0.0	15.0	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	538.45	-65.6	5.3	-22.1	-1.7		-7.8	0.0	0.0	0.0	5.9	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	502.38	-65.0	5.0	-20.3	-1.3		0.3	0.0	0.0	0.0	19.3	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	519.72	-65.3	5.1	-22.5	-1.7		-7.8	1.7	0.0	0.0	10.1	
Cooling Tower M 512	Leq,D	95.7		530.90	-65.5	5.5	-21.8	-2.0		0.0	0.0	0.0	0.0	11.9	
Cooling Tower M 513	Leq,D	95.7		532.27	-65.5	5.5	-21.7	-2.0		0.0	0.0	0.0	0.0	11.9	
Cooling Tower M 514	Leq,D	95.7		529.41	-65.5	5.5	-21.8	-2.0		0.0	0.0	0.0	0.0	11.9	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Heater # 5-Heater	Leq,D	91.1	13	289.55	-60.2	5.1	-21.1	-0.8		0.0	1.1	0.0	0.0	18.1
Heater # 5-Heater	Leq,D	91.1	13	294.43	-60.4	5.1	-21.1	-0.8		0.0	1.4	0.0	0.0	18.3
Heater # 5-Heater	Leq,D	91.1	13	299.44	-60.5	5.1	-21.3	-0.8		0.0	0.0	0.0	0.0	16.5
Hydro Heater H-402	Leq,D	98.1		557.07	-65.9	5.5	-19.8	-1.1		0.0	0.0	0.0	0.0	16.8
Motor & Pump P 56A/B	Leq,D	93.7		568.90	-66.1	5.5	-22.4	-2.8	-0.14	0.0	0.9	0.0	0.0	8.7
Motor & Pump P 120/121	Leq,D	96.2	2	594.34	-66.5	5.6	-22.3	-1.9	-0.56	0.0	0.1	0.0	0.0	10.7
Motor & Pump P 211/212	Leq,D	93.7		581.77	-66.3	5.6	-22.9	-2.9	-0.59	0.0	0.0	0.0	0.0	6.6
Motor & Pump P 215/214	Leq,D	94.6		583.22	-66.3	5.6	-21.2	-2.6	-0.59	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 216	Leq,D	98.3		588.34	-66.4	5.5	-22.5	-2.8	-0.73	0.0	0.0	0.0	0.0	11.4
Motor & Pump P 217/218	Leq,D	93.7		582.42	-66.3	5.7	-21.9	-2.7	-0.59	0.0	0.0	0.0	0.0	7.9
Motor & Pump P 300	Leq,D	97.1	2	606.32	-66.6	5.6	-22.2	-1.9	-0.56	0.0	0.6	0.0	0.0	11.9
Motor & Pump P 301	Leq,D	102.1	2	605.78	-66.6	5.6	-22.8	-2.1	-0.24	0.0	0.5	0.0	0.0	16.3
Motor & Pump P 302	Leq,D	97.1	2	606.90	-66.7	5.6	-22.2	-2.0	-0.56	0.0	0.3	0.0	0.0	11.6
Motor & Pump P 303	Leq,D	97.1	2	607.48	-66.7	5.6	-22.9	-2.1	-0.24	0.0	0.4	0.0	0.0	11.2
Motor & Pump P 305	Leq,D	97.5	2	607.96	-66.7	5.6	-22.3	-2.0	-0.56	0.0	0.1	0.0	0.0	11.8
Motor & Pump P 306	Leq,D	112.6	4	610.91	-66.7	5.5	-23.1	-2.3	-0.52	0.0	0.8	0.0	0.0	26.3
Motor & Pump P 307	Leq,D	102.1	2	604.25	-66.6	5.6	-23.6	-2.3	-0.54	0.0	0.2	0.0	0.0	14.9
Motor & Pump P 309	Leq,D	97.5	2	608.45	-66.7	5.6	-22.3	-2.0	-0.56	0.0	0.6	0.0	0.0	12.1
Motor & Pump P 312	Leq,D	101.5	2	597.75	-66.5	5.7	-22.2	-2.0	-0.25	0.0	0.0	0.0	0.0	16.3
Motor & Pump P 313	Leq,D	101.5	2	597.26	-66.5	5.7	-22.0	-1.9	-0.24	0.0	0.0	0.0	0.0	16.4
Motor & Pump P 315	Leq,D	102.9	2	595.76	-66.5	5.6	-21.8	-1.9	-0.24	0.0	0.0	0.0	0.0	18.1
Motor & Pump P 316	Leq,D	102.9	2	595.24	-66.5	5.6	-21.8	-1.9	-0.24	0.0	0.0	0.0	0.0	18.1
Motor & Pump P 317	Leq,D	102.9	2	594.62	-66.5	5.6	-21.8	-1.9	-0.24	0.0	0.0	0.0	0.0	18.1
Motor & Pump P 318	Leq,D	100.2	1	595.81	-66.5	5.7	-22.0	-1.9	-0.24	0.0	0.0	0.0	0.0	15.2
Motor & Pump P 319	Leq,D	100.2	1	596.21	-66.5	5.7	-21.9	-1.9	-0.24	0.0	0.0	0.0	0.0	15.3
Motor & Pump P 327	Leq,D	111.2	3	614.27	-66.8	5.6	-24.4	-3.5	-0.02	0.0	2.6	0.0	0.0	24.8
Motor & Pump P 328	Leq,D	109.9	5	608.90	-66.7	5.5	-23.1	-2.1	-0.55	0.0	0.6	0.0	0.0	23.6
Motor & Pump P 329	Leq,D	110.2	5	609.86	-66.7	5.5	-23.4	-2.2	-0.53	0.0	0.9	0.0	0.0	23.6
Motor & Pump P 451	Leq,D	93.7		554.34	-65.9	5.5	-21.3	-2.4		0.0	0.0	0.0	0.0	9.6
Motor & Pump P 453	Leq,D	93.7		549.05	-65.8	5.5	-23.3	-2.9		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 454	Leq,D	93.7		555.89	-65.9	5.5	-21.3	-2.5		0.0	0.0	0.0	0.0	9.6
Motor & Pump P 457	Leq,D	93.7		548.74	-65.8	5.5	-23.1	-2.9		0.0	0.0	0.0	0.0	7.4
Motor & Pump P 458	Leq,D	93.7		553.22	-65.9	5.5	-21.3	-2.4		0.0	0.0	0.0	0.0	9.6
Motor & Pump P 459	Leq,D	93.7		556.11	-65.9	5.5	-21.3	-2.5		0.0	0.3	0.0	0.0	9.8
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		547.79	-65.8	5.6	-23.3	-2.9	-0.13	0.0	1.1	0.0	0.0	10.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		548.26	-65.8	5.6	-23.1	-2.7	-0.26	0.0	0.0	0.0	0.0	9.9
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		550.11	-65.8	5.6	-23.1	-2.8	-0.18	0.0	0.1	0.0	0.0	9.3
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		550.51	-65.8	5.6	-23.7	-3.1	-0.22	0.0	0.2	0.0	0.0	8.3
Motor & Pump P 1601 A	Leq,D	96.3	2	520.86	-65.3	5.4	-22.6	-2.6		0.0	0.0	0.0	0.0	11.2
Motor & Pump P 1601 B	Leq,D	96.3	2	519.37	-65.3	5.4	-22.7	-2.6		0.0	0.0	0.0	0.0	11.2
Motor & Pump P 1602 A	Leq,D	96.3	2	518.20	-65.3	5.4	-22.7	-2.6		0.0	0.0	0.0	0.0	11.2
Motor & Pump P 1602 B	Leq,D	96.5	2	516.76	-65.3	5.4	-22.7	-2.6		0.0	0.0	0.0	0.0	11.4
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	539.01	-65.6	5.6	-23.2	-3.0	-0.20	0.0	0.0	0.0	0.0	10.1
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	540.48	-65.6	5.6	-22.6	-2.6	-0.18	0.0	0.0	0.0	0.0	11.1
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	541.20	-65.7	5.6	-22.7	-2.6	-0.18	0.0	0.0	0.0	0.0	11.0
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	548.13	-65.8	5.6	-23.2	-3.0		0.0	0.0	0.0	0.0	10.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	548.64	-65.8	5.6	-22.5	-2.6	-0.30	0.0	0.0	0.0	0.0	11.0
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	536.29	-65.6	5.6	-22.8	-2.7	-0.02	0.0	0.5	0.0	0.0	11.3
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	538.48	-65.6	5.6	-22.8	-2.7	-0.07	0.0	0.5	0.0	0.0	11.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	542.29	-65.7	5.6	-23.0	-2.8	-0.19	0.0	0.2	0.0	0.0	10.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	540.58	-65.6	5.6	-22.8	-2.7	-0.13	0.0	0.3	0.0	0.0	10.9
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	499.84	-65.0	5.5	-12.0	-0.8	-0.02	0.0	0.0	-36.5	0.0	26.0
Tank Farm Pump 1	Leq,D	99.0	3	279.20	-59.9	5.2	-17.4	-1.5		0.0	0.8	0.0	0.0	26.1
Tank Farm Pump 2	Leq,D	99.0	3	260.34	-59.3	5.1	-17.7	-1.5		0.0	0.0	0.0	0.0	25.7
Tank Farm Pump 3	Leq,D	99.0	3	255.04	-59.1	5.1	-17.8	-1.4		0.0	0.0	0.0	0.0	25.8
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	674.43	-67.6	5.1	-15.0	-1.6	-0.01	0.0	0.0	-14.8	0.0	18.6
XF-1502 Splitter Area 1	Leq,D	104.5		539.57	-65.6	4.1	-22.0	-2.0	0.00	-2.5	0.0	0.0	0.0	16.3
XF-1502 Splitter Area 2	Leq,D	104.5		538.46	-65.6	4.1	-22.0	-2.0		-2.5	0.0	0.0	0.0	16.4
XF-1504 Splitter Area 1	Leq,D	104.5		535.36	-65.6	4.1	-23.1	-2.4	0.00	-3.1	0.0	0.0	0.0	14.4
XF-1504 Splitter Area 2	Leq,D	104.5		534.24	-65.5	4.1	-22.0	-2.0		-2.5	0.0	0.0	0.0	16.5
XF 304, XF 321	Leq,D	110.5	56	611.23	-66.7	4.3	-20.1	-1.0		-1.3	0.0	0.0	0.0	25.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 313, XF 314	Leq,D	113.0	18	621.43	-66.9	4.6	-21.6	-1.5	-0.01	-2.3	0.1	0.0	0.0	25.4	
XF 335-1, XF 335-2	Leq,D	113.4	54	615.02	-66.8	4.3	-21.0	-1.4	0.00	-1.4	0.0	0.0	0.0	27.2	
XF 503	Leq,D	113.0	21	579.73	-66.3	4.6	-21.0	-2.1	-0.27	-2.7	0.0	0.0	0.0	25.4	
XF - 1601	Leq,D	96.6		518.57	-65.3	3.1	-18.9	-0.8		-0.9	0.0	0.0	0.0	13.8	
XF - 1602	Leq,D	96.6		512.91	-65.2	3.1	-18.9	-0.8		-0.9	0.0	0.0	0.0	13.8	
XF Module 1510	Leq,D	108.3		542.92	-65.7	4.2	-22.9	-2.5	-0.02	-3.2	0.0	0.0	0.0	18.2	
XF Module 1519	Leq,D	109.0		544.47	-65.7	4.2	-22.0	-2.0	-0.22	-2.5	0.0	0.0	0.0	20.8	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								0.7			63.0	
Crude Operatoin Truck Truck Traffic	Leq,D		520								7.0			31.4	
Receiver S-1 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 65.3 dB(A)		Ld 7-19	dB(A)	Leq,N 51.0 dB(A)		Le 19-22	dB(A)	CNEL 64.3 dB(A)		Lmax day hr	dB(A)	Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	499.82	-65.0	5.4	-17.3	-1.2	0.00	0.0	0.2	-8.8	0.0	22.5	
Air Compressor C 1	Leq,D	110.0	5	643.24	-67.2	5.7	-15.5	-1.2	-0.58	0.0	7.2	0.0	0.0	38.4	
Air Compressor Pump	Leq,D	100.3		466.37	-64.4	5.4	-24.0	-3.5		0.0	0.0	0.0	0.0	13.8	
Blower F 401	Leq,D	113.0		586.71	-66.4	5.5	-19.2	-0.7		0.0	0.0	0.0	0.0	32.2	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	291.28	-60.3	5.0	-23.5	-1.0		0.0	0.0	0.0	0.0	18.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	629.20	-67.0	5.3	-19.3	-1.2	-0.74	0.5	0.5	0.0	0.0	22.9	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	627.50	-66.9	5.3	-13.0	-1.4	-0.83	0.0	0.0	0.0	0.0	23.7	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	639.30	-67.1	5.4	-21.6	-1.4	-0.75	-5.8	0.0	0.0	0.0	15.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	637.26	-67.1	5.3	-21.2	-1.4	-0.84	4.0	0.0	0.0	0.0	29.5	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	628.26	-67.0	5.3	-15.4	-1.3	-0.77	3.9	1.7	0.0	0.0	30.3	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	648.27	-67.2	5.3	-22.8	-1.9	-0.82	-7.8	0.0	0.0	0.0	5.2	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	378.31	-62.5	5.2	-20.0	-1.5		0.0	0.2	-7.0	0.0	27.3	
Construciton Control Room Max Day	Leq,D	123.7	5461	378.31	-62.5	5.2	-20.0	-1.5		0.0	0.2	-1.0	0.0	44.0	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	141.39	-54.0	3.7	-10.4	-1.0		0.0	2.3	-1.0	0.0	63.3	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	350.99	-61.9	5.1	-8.3	-2.2		0.0	0.4	-1.0	0.0	55.7	
Construction H2 Plant Max Day	Leq,D	123.7	9281	485.46	-64.7	5.3	-17.3	-1.6		0.0	0.2	-1.0	0.0	44.6	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	485.46	-64.7	5.3	-17.3	-1.6		0.0	0.2	-7.0	0.0	27.9	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	278.43	-59.9	4.9	-21.6	-1.5		0.0	0.2	-1.0	0.0	44.8	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	278.43	-59.9	4.9	-21.6	-1.5		0.0	0.2	-7.0	0.0	28.1	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	684.53	-67.7	5.5	-18.2	-2.3	-0.71	0.0	0.1	-1.0	0.0	39.4	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	333.30	-61.4	5.0	-20.0	-1.7		0.0	0.5	-7.0	0.0	28.5	
Construction Unit B Max Day	Leq,D	123.7	20817	333.30	-61.4	5.0	-20.0	-1.7		0.0	0.5	-1.0	0.0	45.2	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	563.78	-66.0	5.3	-19.1	-1.3		0.9	0.0	0.0	0.0	17.6	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	574.95	-66.2	5.3	-22.5	-1.7		-7.8	0.0	0.0	0.0	4.9	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	541.11	-65.7	5.0	-13.4	-1.1		1.0	0.0	0.0	0.0	26.5	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	557.24	-65.9	5.1	-22.3	-1.7		-7.8	3.9	0.0	0.0	12.0	
Cooling Tower M 512	Leq,D	95.7		566.68	-66.1	5.5	-15.4	-2.0		0.0	0.0	0.0	0.0	17.7	
Cooling Tower M 513	Leq,D	95.7		567.93	-66.1	5.5	-15.4	-2.0		0.0	2.4	0.0	0.0	20.2	
Cooling Tower M 514	Leq,D	95.7		565.25	-66.0	5.5	-15.5	-2.0		0.0	0.0	0.0	0.0	17.7	
Heater # 5-Heater	Leq,D	91.1	13	288.71	-60.2	5.1	-21.3	-0.7		0.0	0.0	0.0	0.0	16.9	
Heater # 5-Heater	Leq,D	91.1	13	293.63	-60.3	5.1	-21.1	-0.7		0.0	0.0	0.0	0.0	17.0	
Heater # 5-Heater	Leq,D	91.1	13	298.66	-60.5	5.1	-20.9	-0.7		0.0	0.0	0.0	0.0	17.1	
Hydro Heater H-402	Leq,D	98.1		591.24	-66.4	5.5	-22.9	-1.4		0.0	0.0	0.0	0.0	12.9	
Motor & Pump P 56A/B	Leq,D	93.7		605.19	-66.6	5.6	-21.8	-2.4	-0.15	0.0	0.0	0.0	0.0	8.2	
Motor & Pump P 120/121	Leq,D	96.2	2	636.72	-67.1	5.6	-23.4	-2.2	-0.26	0.0	0.3	0.0	0.0	9.3	
Motor & Pump P 211/212	Leq,D	93.7		612.95	-66.7	5.6	-23.3	-2.9	-0.64	0.0	0.0	0.0	0.0	5.7	
Motor & Pump P 215/214	Leq,D	94.6		615.21	-66.8	5.6	-21.8	-2.4	-0.63	0.0	0.0	0.0	0.0	8.6	
Motor & Pump P 216	Leq,D	98.3		619.26	-66.8	5.6	-21.3	-2.4	-0.78	0.0	0.0	0.0	0.0	12.6	
Motor & Pump P 217/218	Leq,D	93.7		613.90	-66.8	5.7	-23.5	-3.0	-0.65	0.0	0.0	0.0	0.0	5.5	
Motor & Pump P 300	Leq,D	97.1	2	648.28	-67.2	5.6	-22.3	-2.0	-0.60	0.0	0.0	0.0	0.0	10.6	
Motor & Pump P 301	Leq,D	102.1	2	647.50	-67.2	5.6	-22.8	-2.0	-0.60	0.0	0.0	0.0	0.0	15.1	
Motor & Pump P 302	Leq,D	97.1	2	649.11	-67.2	5.6	-19.5	-1.8	-0.60	0.0	0.2	0.0	0.0	13.8	
Motor & Pump P 303	Leq,D	97.1	2	649.90	-67.2	5.6	-13.7	-1.9	-0.60	0.0	1.1	0.0	0.0	20.4	
Motor & Pump P 305	Leq,D	97.5	2	650.60	-67.3	5.6	-23.0	-2.1	-0.26	0.0	0.0	0.0	0.0	10.5	
Motor & Pump P 306	Leq,D	112.6	4	654.84	-67.3	5.6	-22.5	-2.1	-0.64	0.0	0.1	0.0	0.0	25.8	
Motor & Pump P 307	Leq,D	102.1	2	645.26	-67.2	5.6	-24.2	-2.4	-0.55	0.0	1.4	0.0	0.0	14.8	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 309	Leq,D	97.5	2	651.30	-67.3	5.6	-23.0	-2.1	-0.26	0.0	0.0	0.0	0.0	10.6	
Motor & Pump P 312	Leq,D	101.5	2	635.49	-67.1	5.7	-19.3	-1.8	-0.25	0.0	0.0	0.0	0.0	18.8	
Motor & Pump P 313	Leq,D	101.5	2	634.72	-67.0	5.7	-19.3	-1.8	-0.25	0.0	0.0	0.0	0.0	18.8	
Motor & Pump P 315	Leq,D	102.9	2	632.22	-67.0	5.6	-21.1	-1.8	-0.26	0.0	0.0	0.0	0.0	18.4	
Motor & Pump P 316	Leq,D	102.9	2	631.39	-67.0	5.6	-24.0	-2.3	-0.02	0.0	2.1	0.0	0.0	17.3	
Motor & Pump P 317	Leq,D	102.9	2	630.48	-67.0	5.6	-24.4	-2.5		0.0	1.3	0.0	0.0	15.9	
Motor & Pump P 318	Leq,D	100.2	1	632.60	-67.0	5.7	-20.9	-1.8	-0.25	0.0	0.0	0.0	0.0	15.9	
Motor & Pump P 319	Leq,D	100.2	1	633.23	-67.0	5.7	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	17.5	
Motor & Pump P 327	Leq,D	111.2	3	659.27	-67.4	5.6	-23.8	-3.3	-0.38	0.0	4.2	0.0	0.0	26.2	
Motor & Pump P 328	Leq,D	109.9	5	652.02	-67.3	5.6	-23.4	-2.2	-0.60	0.0	0.0	0.0	0.0	22.0	
Motor & Pump P 329	Leq,D	110.2	5	653.39	-67.3	5.6	-24.0	-2.4	-0.57	0.0	0.0	0.0	0.0	21.5	
Motor & Pump P 451	Leq,D	93.7		587.42	-66.4	5.5	-22.1	-2.4		0.0	3.8	0.0	0.0	12.2	
Motor & Pump P 453	Leq,D	93.7		580.30	-66.3	5.5	-23.5	-2.9		0.0	0.0	0.0	0.0	6.6	
Motor & Pump P 454	Leq,D	93.7		588.96	-66.4	5.6	-22.0	-2.4		0.0	0.0	0.0	0.0	8.5	
Motor & Pump P 457	Leq,D	93.7		579.72	-66.3	5.5	-23.4	-2.8		0.0	0.0	0.0	0.0	6.7	
Motor & Pump P 458	Leq,D	93.7		586.36	-66.4	5.5	-22.1	-2.4		0.0	3.9	0.0	0.0	12.2	
Motor & Pump P 459	Leq,D	93.7		589.35	-66.4	5.6	-21.9	-2.4		0.0	0.0	0.0	0.0	8.5	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		586.49	-66.4	5.6	-22.8	-2.6	-0.05	0.0	0.0	0.0	0.0	10.0	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		587.24	-66.4	5.6	-22.5	-2.5	-0.13	0.0	1.1	0.0	0.0	11.3	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		594.98	-66.5	5.6	-16.0	-2.2	-0.20	0.0	0.0	0.0	0.0	16.1	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		595.55	-66.5	5.6	-24.0	-3.3	-0.23	0.0	0.0	0.0	0.0	7.0	
Motor & Pump P 1601 A	Leq,D	96.3	2	561.54	-66.0	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3	
Motor & Pump P 1601 B	Leq,D	96.3	2	560.16	-66.0	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3	
Motor & Pump P 1602 A	Leq,D	96.3	2	559.03	-65.9	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3	
Motor & Pump P 1602 B	Leq,D	96.5	2	557.71	-65.9	5.5	-16.5	-2.1		0.0	0.0	0.0	0.0	17.5	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	578.42	-66.2	5.6	-24.6	-3.7	-0.20	0.0	0.0	0.0	0.0	7.5	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	580.68	-66.3	5.6	-16.2	-2.2	-0.19	0.0	0.0	0.0	0.0	17.4	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	581.80	-66.3	5.6	-16.2	-2.2	-0.19	0.0	0.0	0.0	0.0	17.4	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	587.39	-66.4	5.6	-22.3	-2.5	-0.22	0.0	1.2	0.0	0.0	12.1	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	588.19	-66.4	5.6	-24.6	-3.7		0.0	0.0	0.0	0.0	7.6	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	578.17	-66.2	5.6	-20.4	-2.5	-0.03	0.0	0.0	0.0	0.0	12.7	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	580.21	-66.3	5.6	-24.6	-3.6	-0.12	0.0	0.0	0.0	0.0	7.3	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	583.73	-66.3	5.6	-16.2	-2.2	-0.18	0.0	0.0	0.0	0.0	17.1	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	582.15	-66.3	5.6	-17.9	-2.3	-0.14	0.0	0.0	0.0	0.0	15.3	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	514.15	-65.2	5.5	-14.6	-0.7	-0.03	0.0	0.0	-36.5	0.0	23.2	
Tank Farm Pump 1	Leq,D	99.0	3	341.07	-61.6	5.3	-21.8	-1.5		0.0	0.6	0.0	0.0	19.9	
Tank Farm Pump 2	Leq,D	99.0	3	325.86	-61.3	5.3	-22.3	-1.6		0.0	0.0	0.0	0.0	19.2	
Tank Farm Pump 3	Leq,D	99.0	3	321.59	-61.1	5.3	-22.3	-1.6		0.0	0.0	0.0	0.0	19.3	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	700.18	-67.9	5.1	-14.5	-1.8	0.00	0.0	0.2	-14.8	0.0	18.7	
XF-1502 Splitter Area 1	Leq,D	104.5		580.58	-66.3	4.2	-13.0	-2.0	0.00	-2.9	0.0	0.0	0.0	24.6	
XF-1502 Splitter Area 2	Leq,D	104.5		578.86	-66.2	4.2	-13.0	-2.0		-2.9	0.0	0.0	0.0	24.6	
XF-1504 Splitter Area 1	Leq,D	104.5		576.67	-66.2	4.2	-13.1	-2.0	-0.01	-2.9	0.0	0.0	0.0	24.6	
XF-1504 Splitter Area 2	Leq,D	104.5		574.94	-66.2	4.2	-13.1	-1.9		-2.9	0.0	0.0	0.0	24.6	
XF 304, XF 321	Leq,D	110.5	56	652.46	-67.3	4.4	-14.9	-1.0		-1.5	0.0	0.0	0.0	30.3	
XF 313, XF 314	Leq,D	113.0	18	666.88	-67.5	4.7	-11.8	-1.6	-0.02	-2.6	0.0	0.0	0.0	34.2	
XF 335-1, XF 335-2	Leq,D	113.4	54	657.96	-67.4	4.4	-14.9	-1.3	0.00	-1.6	0.0	0.0	0.0	32.6	
XF 503	Leq,D	113.0	21	614.23	-66.8	4.7	-11.4	-1.5	-0.47	-2.8	0.0	0.0	0.0	34.8	
XF - 1601	Leq,D	96.6		559.20	-65.9	3.3	-9.1	-1.0		-1.2	0.0	0.0	0.0	22.6	
XF - 1602	Leq,D	96.6		553.97	-65.9	3.3	-9.3	-0.9		-1.2	0.0	0.0	0.0	22.6	
XF Module 1510	Leq,D	108.3		582.32	-66.3	4.4	-21.2	-2.3	-0.02	-2.9	0.0	0.0	0.0	20.0	
XF Module 1519	Leq,D	109.0		584.74	-66.3	4.4	-13.2	-2.0	-0.25	-2.9	0.0	0.0	0.0	28.8	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								2.0			58.6	
Crude Operatoin Truck Truck Traffic	Leq,D		520								3.0			35.4	
Receiver S-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 62.2 dB(A) Ld 7-19 dB(A) Leq,N 47.4 dB(A) Le 19-22 dB(A) CNEL 61.1 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	416.02	-63.4	5.3	-19.6	-1.1		0.0	0.0	-8.8	0.0	21.5	
Air Compressor C 1	Leq,D	110.0	5	572.66	-66.2	5.6	-23.5	-1.6	-0.35	0.0	7.6	0.0	0.0	31.6	
Air Compressor Pump	Leq,D	100.3		390.67	-62.8	5.3	-24.6	-3.8		0.0	0.0	0.0	0.0	14.3	
Blower F 401	Leq,D	113.0		510.08	-65.1	5.4	-21.6	-0.7		0.0	0.0	0.0	0.0	31.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	210.40	-57.5	4.7	-24.3	-0.8		0.0	0.0	0.0	0.0	20.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	554.08	-65.9	5.3	-22.9	-1.4	-0.79	0.8	0.5	0.0	0.0	20.3	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	552.74	-65.8	5.2	-22.2	-1.6	-0.80	0.0	0.1	0.0	0.0	15.5	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	564.40	-66.0	5.3	-23.7	-1.7	-0.77	-6.3	0.0	0.0	0.0	13.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	561.78	-66.0	5.3	-23.3	-1.6	-0.80	3.7	0.0	0.0	0.0	28.0	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	553.32	-65.9	5.3	-23.2	-1.5	-0.79	3.6	2.9	0.0	0.0	24.1	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	572.84	-66.2	5.3	-23.7	-2.1	-0.82	-7.8	0.0	0.0	0.0	5.1	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	311.25	-60.9	5.0	-23.8	-2.2		0.0	0.0	-7.0	0.0	24.1	
Construciton Control Room Max Day	Leq,D	123.7	5461	311.25	-60.9	5.0	-23.8	-2.2		0.0	0.0	-1.0	0.0	40.8	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	164.07	-55.3	4.0	-12.0	-1.0		0.0	2.1	-1.0	0.0	60.6	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	358.40	-62.1	5.1	-14.2	-1.7		0.0	0.2	-1.0	0.0	50.1	
Construction H2 Plant Max Day	Leq,D	123.7	9281	414.88	-63.4	5.2	-23.1	-2.2		0.0	0.1	-1.0	0.0	39.4	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	414.88	-63.4	5.2	-23.1	-2.2		0.0	0.1	-7.0	0.0	22.7	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	225.82	-58.1	4.6	-18.0	-1.5		0.0	0.2	-1.0	0.0	49.9	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	225.82	-58.1	4.6	-18.0	-1.5		0.0	0.2	-7.0	0.0	33.2	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	611.19	-66.7	5.5	-23.6	-3.1	-0.61	0.0	0.1	-1.0	0.0	34.2	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	253.44	-59.1	4.7	-23.3	-1.8		0.0	0.2	-7.0	0.0	26.7	
Construction Unit B Max Day	Leq,D	123.7	20817	253.44	-59.1	4.7	-23.3	-1.8		0.0	0.2	-1.0	0.0	43.4	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	490.94	-64.8	5.2	-22.3	-1.5		1.2	0.0	0.0	0.0	15.7	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	501.69	-65.0	5.2	-23.5	-1.9		-7.8	0.0	0.0	0.0	4.9	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	469.10	-64.4	4.9	-19.7	-1.1		1.4	0.0	0.0	0.0	21.7	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	484.56	-64.7	5.0	-23.2	-1.8		-7.8	4.6	0.0	0.0	12.8	
Cooling Tower M 512	Leq,D	95.7		493.21	-64.9	5.5	-23.0	-1.8		0.0	2.3	0.0	0.0	13.8	
Cooling Tower M 513	Leq,D	95.7		494.41	-64.9	5.4	-23.0	-1.8		0.0	2.4	0.0	0.0	13.8	
Cooling Tower M 514	Leq,D	95.7		491.83	-64.8	5.5	-23.0	-1.8		0.0	0.0	0.0	0.0	11.5	
Heater # 5-Heater	Leq,D	91.1	13	208.13	-57.4	4.7	-22.2	-0.6		0.0	0.0	0.0	0.0	18.7	
Heater # 5-Heater	Leq,D	91.1	13	212.98	-57.6	4.7	-22.0	-0.6		0.0	0.0	0.0	0.0	18.7	
Heater # 5-Heater	Leq,D	91.1	13	217.95	-57.8	4.7	-21.8	-0.6		0.0	0.0	0.0	0.0	18.7	
Hydro Heater H-402	Leq,D	98.1		516.95	-65.3	5.5	-23.8	-1.5		0.0	0.0	0.0	0.0	13.0	
Motor & Pump P 56A/B	Leq,D	93.7		531.61	-65.5	5.5	-24.1	-3.0	-0.16	0.0	2.2	0.0	0.0	8.5	
Motor & Pump P 120/121	Leq,D	96.2	2	565.39	-66.0	5.6	-23.8	-2.0	-0.62	0.0	1.2	0.0	0.0	10.5	
Motor & Pump P 211/212	Leq,D	93.7		537.45	-65.6	5.6	-23.9	-3.0	-0.63	0.0	0.0	0.0	0.0	6.1	
Motor & Pump P 215/214	Leq,D	94.6		539.98	-65.6	5.6	-24.0	-3.0	-0.64	0.0	0.0	0.0	0.0	7.0	
Motor & Pump P 216	Leq,D	98.3		543.63	-65.7	5.5	-23.8	-2.9	-0.79	0.0	0.0	0.0	0.0	10.6	
Motor & Pump P 217/218	Leq,D	93.7		538.50	-65.6	5.7	-24.3	-3.2	-0.65	0.0	0.0	0.0	0.0	5.5	
Motor & Pump P 300	Leq,D	97.1	2	576.68	-66.2	5.6	-24.3	-2.2	-0.60	0.0	0.0	0.0	0.0	9.4	
Motor & Pump P 301	Leq,D	102.1	2	575.79	-66.2	5.6	-24.4	-2.2	-0.60	0.0	0.0	0.0	0.0	14.3	
Motor & Pump P 302	Leq,D	97.1	2	577.62	-66.2	5.6	-24.2	-2.2	-0.61	0.0	0.0	0.0	0.0	9.5	
Motor & Pump P 303	Leq,D	97.1	2	578.49	-66.2	5.6	-23.7	-2.0	-0.62	0.0	0.0	0.0	0.0	10.0	
Motor & Pump P 305	Leq,D	97.5	2	579.27	-66.2	5.6	-23.7	-2.0	-0.62	0.0	0.0	0.0	0.0	10.5	
Motor & Pump P 306	Leq,D	112.6	4	584.05	-66.3	5.5	-24.4	-2.8	-0.44	0.0	0.3	0.0	0.0	24.5	
Motor & Pump P 307	Leq,D	102.1	2	573.27	-66.2	5.6	-24.6	-2.3	-0.52	0.0	1.0	0.0	0.0	15.1	
Motor & Pump P 309	Leq,D	97.5	2	580.06	-66.3	5.6	-23.6	-2.0	-0.62	0.0	0.0	0.0	0.0	10.6	
Motor & Pump P 312	Leq,D	101.5	2	562.24	-66.0	5.6	-23.6	-2.0	-0.26	0.0	0.0	0.0	0.0	15.3	
Motor & Pump P 313	Leq,D	101.5	2	561.37	-66.0	5.6	-21.8	-1.7	-0.26	0.0	0.0	0.0	0.0	17.4	
Motor & Pump P 315	Leq,D	102.9	2	558.50	-65.9	5.6	-24.5	-2.3		0.0	0.0	0.0	0.0	15.8	
Motor & Pump P 316	Leq,D	102.9	2	557.56	-65.9	5.6	-24.6	-2.3		0.0	0.1	0.0	0.0	15.8	
Motor & Pump P 317	Leq,D	102.9	2	556.54	-65.9	5.6	-24.6	-2.3		0.0	0.9	0.0	0.0	16.5	
Motor & Pump P 318	Leq,D	100.2	1	559.01	-65.9	5.7	-23.9	-2.1	-0.26	0.0	0.0	0.0	0.0	13.7	
Motor & Pump P 319	Leq,D	100.2	1	559.72	-66.0	5.7	-23.9	-2.0	-0.26	0.0	0.0	0.0	0.0	13.7	
Motor & Pump P 327	Leq,D	111.2	3	588.93	-66.4	5.6	-24.7	-3.5	-0.48	0.0	4.6	0.0	0.0	26.3	
Motor & Pump P 328	Leq,D	109.9	5	580.89	-66.3	5.5	-23.2	-2.0	-0.62	0.0	0.0	0.0	0.0	23.4	
Motor & Pump P 329	Leq,D	110.2	5	582.43	-66.3	5.5	-24.4	-2.3	-0.51	0.0	0.1	0.0	0.0	22.3	
Motor & Pump P 451	Leq,D	93.7		512.77	-65.2	5.5	-24.3	-3.1		0.0	0.0	0.0	0.0	6.6	
Motor & Pump P 453	Leq,D	93.7		505.05	-65.1	5.5	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7	
Motor & Pump P 454	Leq,D	93.7		514.29	-65.2	5.5	-24.2	-3.1		0.0	0.0	0.0	0.0	6.6	
Motor & Pump P 457	Leq,D	93.7		504.39	-65.0	5.5	-24.3	-3.0		0.0	0.0	0.0	0.0	6.8	
Motor & Pump P 458	Leq,D	93.7		511.74	-65.2	5.5	-24.3	-3.1		0.0	0.0	0.0	0.0	6.6	
Motor & Pump P 459	Leq,D	93.7		514.74	-65.2	5.5	-24.2	-3.1		0.0	0.0	0.0	0.0	6.6	

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		514.03	-65.2	5.5	-24.3	-3.1	-0.03	0.0	1.2	0.0	0.0	10.2	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		514.88	-65.2	5.5	-24.3	-3.1	-0.10	0.0	1.4	0.0	0.0	10.4	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		525.13	-65.4	5.5	-22.9	-2.4	-0.21	0.0	0.0	0.0	0.0	10.1	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		525.78	-65.4	5.6	-22.9	-2.4	-0.21	0.0	0.0	0.0	0.0	10.1	
Motor & Pump P 1601 A	Leq,D	96.3	2	490.14	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.5	
Motor & Pump P 1601 B	Leq,D	96.3	2	488.83	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6	
Motor & Pump P 1602 A	Leq,D	96.3	2	487.73	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6	
Motor & Pump P 1602 B	Leq,D	96.5	2	486.46	-64.7	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.8	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	506.31	-65.1	5.5	-24.8	-3.4	-0.19	0.0	0.0	0.0	0.0	8.7	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	508.89	-65.1	5.5	-24.3	-3.0	-0.20	0.0	0.0	0.0	0.0	9.5	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	510.17	-65.1	5.5	-24.0	-2.9	-0.20	0.0	0.0	0.0	0.0	9.8	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	515.14	-65.2	5.5	-24.3	-3.1	-0.18	0.0	1.4	0.0	0.0	10.9	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	516.06	-65.2	5.5	-24.3	-3.1	-0.25	0.0	0.6	0.0	0.0	10.0	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	507.14	-65.1	5.6	-24.8	-3.4	-0.04	0.0	0.0	0.0	0.0	8.5	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	509.08	-65.1	5.6	-23.5	-2.6	-0.09	0.0	0.0	0.0	0.0	10.5	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	512.44	-65.2	5.5	-22.9	-2.4	-0.19	0.0	0.0	0.0	0.0	11.2	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	510.93	-65.2	5.5	-22.9	-2.4	-0.14	0.0	0.0	0.0	0.0	11.2	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	429.34	-63.6	5.4	-17.4	-0.5	0.00	0.0	0.0	-36.5	0.0	22.1	
Tank Farm Pump 1	Leq,D	99.0	3	286.88	-60.1	5.2	-24.3	-1.8		0.0	1.3	0.0	0.0	19.3	
Tank Farm Pump 2	Leq,D	99.0	3	275.14	-59.8	5.2	-24.3	-1.8		0.0	0.2	0.0	0.0	18.6	
Tank Farm Pump 3	Leq,D	99.0	3	271.89	-59.7	5.2	-24.3	-1.7		0.0	1.5	0.0	0.0	19.9	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	612.47	-66.7	5.0	-18.9	-1.2		0.0	0.0	-14.8	0.0	15.9	
XF-1502 Splitter Area 1	Leq,D	104.5		509.14	-65.1	4.0	-20.4	-1.7	0.00	-2.4	0.0	0.0	0.0	18.9	
XF-1502 Splitter Area 2	Leq,D	104.5		507.18	-65.1	4.0	-20.3	-1.7		-2.4	0.0	0.0	0.0	19.0	
XF-1504 Splitter Area 1	Leq,D	104.5		505.40	-65.1	4.0	-20.4	-1.7	-0.01	-2.4	0.0	0.0	0.0	18.9	
XF-1504 Splitter Area 2	Leq,D	104.5		503.42	-65.0	3.9	-20.4	-1.7		-2.4	0.0	0.0	0.0	19.0	
XF 304, XF 321	Leq,D	110.5	56	580.52	-66.3	4.2	-18.7	-0.9		-1.3	0.0	0.0	0.0	27.6	
XF 313, XF 314	Leq,D	113.0	18	596.71	-66.5	4.6	-19.3	-1.3	-0.02	-2.2	0.0	0.0	0.0	28.3	
XF 335-1, XF 335-2	Leq,D	113.4	54	586.74	-66.4	4.2	-19.6	-1.2	0.00	-1.4	0.0	0.0	0.0	29.1	
XF 503	Leq,D	113.0	21	539.90	-65.6	4.5	-21.6	-2.0	-0.46	-2.6	0.0	0.0	0.0	25.3	
XF - 1601	Leq,D	96.6		487.83	-64.8	3.0	-16.8	-0.7		-0.9	0.0	0.0	0.0	16.4	
XF - 1602	Leq,D	96.6		482.83	-64.7	3.0	-16.9	-0.7		-0.9	0.0	0.0	0.0	16.4	
XF Module 1510	Leq,D	108.3		510.18	-65.1	4.1	-20.2	-1.7	-0.17	-2.4	0.0	0.0	0.0	22.9	
XF Module 1519	Leq,D	109.0		512.94	-65.2	4.1	-20.3	-1.7	-0.24	-2.4	0.0	0.0	0.0	23.4	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								4.1			53.9	
Crude Operatoin Truck Truck Traffic	Leq,D		520								5.7			33.9	
Receiver S-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 58.7 dB(A) Ld 7-19 dB(A) Leq,N 44.6 dB(A) Le 19-22 dB(A) CNEL 57.6 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	368.45	-62.3	5.2	-17.6	-1.1		0.0	0.1	-8.8	0.0	24.5	
Air Compressor C 1	Leq,D	110.0	5	533.47	-65.5	5.6	-23.7	-1.6	-0.27	0.0	8.0	0.0	0.0	32.5	
Air Compressor Pump	Leq,D	100.3		348.49	-61.8	5.2	-24.7	-3.7		0.0	0.0	0.0	0.0	15.3	
Blower F 401	Leq,D	113.0		466.93	-64.4	5.3	-22.4	-0.6		0.0	0.0	0.0	0.0	30.9	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	164.77	-55.3	4.3	-23.4	-0.6		0.0	0.1	0.0	0.0	23.7	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	511.88	-65.2	5.2	-23.5	-1.5	-0.81	0.9	0.7	0.0	0.0	20.7	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	510.80	-65.2	5.2	-23.0	-1.8	-0.81	0.0	0.2	0.0	0.0	15.2	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	522.33	-65.4	5.2	-24.0	-1.7	-0.80	-6.6	0.0	0.0	0.0	13.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	519.32	-65.3	5.2	-23.8	-1.6	-0.79	3.5	0.0	0.0	0.0	27.8	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	511.24	-65.2	5.2	-23.7	-1.5	-0.81	3.3	2.8	0.0	0.0	23.9	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	530.39	-65.5	5.2	-24.1	-2.1	-0.82	-7.8	0.0	0.0	0.0	5.3	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	276.29	-59.8	4.8	-22.6	-1.7		0.0	0.2	-7.0	0.0	26.9	
Construciton Control Room Max Day	Leq,D	123.7	5461	276.29	-59.8	4.8	-22.6	-1.7		0.0	0.2	-1.0	0.0	43.6	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	191.51	-56.6	4.3	-12.8	-1.0		0.0	0.6	-1.0	0.0	57.2	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	370.09	-62.4	5.1	-18.9	-1.9		0.0	0.6	-1.0	0.0	45.4
Construction H2 Plant Max Day	Leq,D	123.7	9281	376.34	-62.5	5.2	-23.6	-2.4		0.0	0.6	-1.0	0.0	40.0
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	376.34	-62.5	5.2	-23.6	-2.4		0.0	0.6	-7.0	0.0	23.3
Construction PreTreat Building Max Day	Leq,D	123.7	6360	204.38	-57.2	4.4	-24.5	-2.1		0.0	0.2	-1.0	0.0	43.6
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	204.38	-57.2	4.4	-24.5	-2.1		0.0	0.2	-7.0	0.0	26.8
Construction Unit A Construction Max Day	Leq,D	123.7	3185	570.14	-66.1	5.4	-23.8	-3.2	-0.64	0.0	0.1	-1.0	0.0	34.5
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	208.66	-57.4	4.4	-23.1	-1.6		0.0	1.0	-7.0	0.0	29.3
Construction Unit B Max Day	Leq,D	123.7	20817	208.66	-57.4	4.4	-23.1	-1.6		0.0	1.0	-1.0	0.0	46.0
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	450.46	-64.1	5.1	-23.1	-1.6		1.5	0.0	0.0	0.0	15.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	460.88	-64.3	5.1	-24.1	-1.9		-7.8	0.0	0.0	0.0	5.0
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	429.26	-63.6	4.8	-21.7	-1.2		1.7	0.0	0.0	0.0	20.5
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	444.20	-63.9	4.9	-24.2	-1.9		-7.8	5.0	0.0	0.0	12.8
Cooling Tower M 512	Leq,D	95.7		452.29	-64.1	5.4	-23.9	-1.9		0.0	2.3	0.0	0.0	13.6
Cooling Tower M 513	Leq,D	95.7		453.45	-64.1	5.4	-23.9	-1.9		0.0	2.3	0.0	0.0	13.5
Cooling Tower M 514	Leq,D	95.7		450.93	-64.1	5.4	-23.9	-1.9		0.0	0.0	0.0	0.0	11.2
Heater # 5-Heater	Leq,D	91.1	13	162.79	-55.2	4.3	-22.5	-0.5		0.0	0.2	0.0	0.0	20.4
Heater # 5-Heater	Leq,D	91.1	13	167.54	-55.5	4.4	-22.0	-0.5		0.0	0.0	0.0	0.0	20.6
Heater # 5-Heater	Leq,D	91.1	13	172.43	-55.7	4.4	-20.7	-0.4		0.0	0.0	0.0	0.0	21.6
Hydro Heater H-402	Leq,D	98.1		475.40	-64.5	5.4	-22.5	-1.2		0.0	0.0	0.0	0.0	15.4
Motor & Pump P 56A/B	Leq,D	93.7		490.50	-64.8	5.5	-24.3	-3.0	-0.16	0.0	1.3	0.0	0.0	8.0
Motor & Pump P 120/121	Leq,D	96.2	2	525.71	-65.4	5.5	-24.2	-2.0	-0.63	0.0	1.8	0.0	0.0	11.3
Motor & Pump P 211/212	Leq,D	93.7		495.03	-64.9	5.5	-23.5	-2.6	-0.64	0.0	0.0	0.0	0.0	7.5
Motor & Pump P 215/214	Leq,D	94.6		497.73	-64.9	5.5	-24.4	-3.1	-0.66	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 216	Leq,D	98.3		501.11	-65.0	5.5	-23.5	-2.6	-0.80	0.0	0.0	0.0	0.0	11.9
Motor & Pump P 217/218	Leq,D	93.7		496.14	-64.9	5.6	-24.2	-3.0	-0.64	0.0	0.0	0.0	0.0	6.5
Motor & Pump P 300	Leq,D	97.1	2	536.79	-65.6	5.6	-24.7	-2.3		0.0	0.0	0.0	0.0	10.2
Motor & Pump P 301	Leq,D	102.1	2	535.85	-65.6	5.6	-24.4	-2.2	-0.55	0.0	0.0	0.0	0.0	14.9
Motor & Pump P 302	Leq,D	97.1	2	537.80	-65.6	5.6	-24.4	-2.1	-0.62	0.0	2.7	0.0	0.0	12.6
Motor & Pump P 303	Leq,D	97.1	2	538.72	-65.6	5.5	-24.4	-2.1	-0.62	0.0	0.0	0.0	0.0	9.9
Motor & Pump P 305	Leq,D	97.5	2	539.57	-65.6	5.6	-24.1	-2.1	-0.63	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 306	Leq,D	112.6	4	544.70	-65.7	5.5	-24.1	-2.5	-0.67	0.0	0.3	0.0	0.0	25.4
Motor & Pump P 307	Leq,D	102.1	2	533.14	-65.5	5.6	-24.6	-2.2	-0.38	0.0	0.5	0.0	0.0	15.5
Motor & Pump P 309	Leq,D	97.5	2	540.42	-65.6	5.6	-24.1	-2.0	-0.63	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 312	Leq,D	101.5	2	521.29	-65.3	5.6	-23.1	-1.7	-0.27	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 313	Leq,D	101.5	2	520.35	-65.3	5.6	-23.1	-1.7	-0.27	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 315	Leq,D	102.9	2	517.24	-65.3	5.6	-24.2	-2.0	-0.38	0.0	0.0	0.0	0.0	16.6
Motor & Pump P 316	Leq,D	102.9	2	516.23	-65.2	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	16.5
Motor & Pump P 317	Leq,D	102.9	2	515.13	-65.2	5.5	-23.5	-1.8	-0.56	0.0	0.0	0.0	0.0	17.3
Motor & Pump P 318	Leq,D	100.2	1	517.83	-65.3	5.6	-24.5	-2.1		0.0	0.2	0.0	0.0	14.2
Motor & Pump P 319	Leq,D	100.2	1	518.60	-65.3	5.6	-24.2	-2.0	-0.26	0.0	0.0	0.0	0.0	14.1
Motor & Pump P 327	Leq,D	111.2	3	549.86	-65.8	5.6	-24.8	-3.4	-0.22	0.0	4.4	0.0	0.0	27.1
Motor & Pump P 328	Leq,D	109.9	5	541.31	-65.7	5.5	-24.3	-2.1	-0.63	0.0	0.0	0.0	0.0	22.7
Motor & Pump P 329	Leq,D	110.2	5	542.96	-65.7	5.5	-24.5	-2.2	-0.61	0.0	0.1	0.0	0.0	22.8
Motor & Pump P 451	Leq,D	93.7		470.98	-64.5	5.4	-24.4	-3.0		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 453	Leq,D	93.7		462.87	-64.3	5.4	-24.4	-3.0		0.0	0.0	0.0	0.0	7.4
Motor & Pump P 454	Leq,D	93.7		472.48	-64.5	5.4	-24.4	-3.0		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 457	Leq,D	93.7		462.15	-64.3	5.4	-24.4	-3.0		0.0	0.0	0.0	0.0	7.4
Motor & Pump P 458	Leq,D	93.7		469.97	-64.4	5.4	-24.4	-3.0		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 459	Leq,D	93.7		472.97	-64.5	5.4	-24.4	-3.0		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		473.72	-64.5	5.5	-24.5	-3.0	-0.01	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		474.65	-64.5	5.5	-24.5	-3.1	-0.08	0.0	2.5	0.0	0.0	12.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		486.59	-64.7	5.5	-23.7	-2.6	-0.21	0.0	0.0	0.0	0.0	9.6
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		487.29	-64.7	5.5	-23.7	-2.6	-0.21	0.0	0.0	0.0	0.0	9.6
Motor & Pump P 1601 A	Leq,D	96.3	2	450.66	-64.1	5.3	-23.8	-2.5		0.0	0.0	0.0	0.0	11.2
Motor & Pump P 1601 B	Leq,D	96.3	2	449.39	-64.0	5.3	-23.8	-2.5		0.0	0.0	0.0	0.0	11.3
Motor & Pump P 1602 A	Leq,D	96.3	2	448.32	-64.0	5.3	-23.8	-2.5		0.0	0.0	0.0	0.0	11.3
Motor & Pump P 1602 B	Leq,D	96.5	2	447.10	-64.0	5.3	-23.8	-2.5		0.0	0.0	0.0	0.0	11.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	466.28	-64.4	5.5	-24.6	-3.1	-0.14	0.0	0.0	0.0	0.0	10.0
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	469.07	-64.4	5.5	-24.5	-3.0	-0.21	0.0	0.0	0.0	0.0	10.0

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	470.45	-64.4	5.5	-24.5	-3.0	-0.21	0.0	0.0	0.0	0.0	10.0	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	474.98	-64.5	5.5	-24.5	-3.1	-0.15	0.0	2.1	0.0	0.0	12.0	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	475.98	-64.5	5.5	-24.5	-3.1	-0.22	0.0	1.4	0.0	0.0	11.3	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	467.84	-64.4	5.5	-24.3	-2.9	-0.03	0.0	0.0	0.0	0.0	10.2	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	469.72	-64.4	5.5	-23.8	-2.6	-0.09	0.0	0.2	0.0	0.0	11.2	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	472.96	-64.5	5.5	-23.8	-2.6	-0.19	0.0	0.0	0.0	0.0	10.8	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	471.50	-64.5	5.5	-23.8	-2.6	-0.15	0.0	0.0	0.0	0.0	10.9	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	380.27	-62.6	5.3	-14.3	-0.5		0.0	0.0	-36.5	0.0	26.2	
Tank Farm Pump 1	Leq,D	99.0	3	261.92	-59.4	5.1	-24.6	-1.8		0.0	0.0	0.0	0.0	18.4	
Tank Farm Pump 2	Leq,D	99.0	3	253.03	-59.1	5.1	-24.6	-1.8		0.0	1.1	0.0	0.0	19.7	
Tank Farm Pump 3	Leq,D	99.0	3	250.62	-59.0	5.1	-24.6	-1.8		0.0	0.0	0.0	0.0	18.7	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	561.55	-66.0	5.0	-20.2	-1.3		0.0	0.1	-14.8	0.0	15.2	
XF-1502 Splitter Area 1	Leq,D	104.5		469.57	-64.4	3.8	-22.0	-1.8	0.00	-2.5	0.0	0.0	0.0	17.6	
XF-1502 Splitter Area 2	Leq,D	104.5		467.44	-64.4	3.8	-22.0	-1.8		-2.5	0.0	0.0	0.0	17.6	
XF-1504 Splitter Area 1	Leq,D	104.5		465.95	-64.4	3.8	-22.1	-1.8	-0.01	-2.5	0.0	0.0	0.0	17.6	
XF-1504 Splitter Area 2	Leq,D	104.5		463.81	-64.3	3.8	-22.0	-1.8		-2.5	0.0	0.0	0.0	17.7	
XF 304, XF 321	Leq,D	110.5	56	540.39	-65.6	4.1	-20.7	-0.9		-1.4	0.0	0.0	0.0	26.0	
XF 313, XF 314	Leq,D	113.0	18	557.73	-65.9	4.5	-22.3	-1.4	-0.02	-2.3	0.0	0.0	0.0	25.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	547.07	-65.8	4.1	-21.9	-1.4	0.00	-1.5	0.0	0.0	0.0	26.9	
XF 503	Leq,D	113.0	21	498.27	-64.9	4.4	-23.3	-2.4	-0.48	-2.7	0.0	0.0	0.0	23.6	
XF - 1601	Leq,D	96.6		448.38	-64.0	3.0	-18.2	-0.7		-0.9	0.0	0.0	0.0	15.8	
XF - 1602	Leq,D	96.6		443.56	-63.9	3.0	-18.3	-0.7		-0.9	0.0	0.0	0.0	15.8	
XF Module 1510	Leq,D	108.3		470.12	-64.4	4.0	-22.0	-1.8	-0.15	-2.5	0.0	0.0	0.0	21.4	
XF Module 1519	Leq,D	109.0		473.11	-64.5	4.0	-22.0	-1.8	-0.24	-2.5	0.0	0.0	0.0	22.0	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								6.0			48.1	
Crude Operatoin Truck Truck Traffic	Leq,D		520								3.3			31.7	
Receiver S-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 61.0 dB(A) Ld 7-19 dB(A) Leq,N 52.8 dB(A) Le 19-22 dB(A) CNEL 61.9 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	296.82	-60.4	5.0	-12.3	-1.3		0.0	0.5	-8.8	0.0	31.7	
Air Compressor C 1	Leq,D	110.0	5	478.26	-64.6	5.6	-16.8	-0.9	-0.67	0.0	7.2	0.0	0.0	39.8	
Air Compressor Pump	Leq,D	100.3		288.93	-60.2	5.1	-23.5	-2.5		0.0	1.2	0.0	0.0	20.4	
Blower F 401	Leq,D	113.0		404.66	-63.1	5.2	-17.8	-0.5		0.0	0.0	0.0	0.0	36.8	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	99.58	-51.0	3.4	-23.3	-0.4		0.0	2.5	0.0	0.0	29.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	451.22	-64.1	5.1	-17.0	-0.9	-0.86	1.2	0.8	0.0	0.0	29.1	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	450.62	-64.1	5.1	-16.6	-1.0	-0.90	0.0	0.3	0.0	0.0	23.4	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	461.88	-64.3	5.1	-21.2	-1.1	-0.85	-7.0	0.3	0.0	0.0	17.5	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	458.16	-64.2	5.1	-18.4	-1.0	-0.95	3.1	0.2	0.0	0.0	34.5	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	450.82	-64.1	5.1	-18.4	-0.9	-0.86	3.1	3.0	0.0	0.0	30.7	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	469.21	-64.4	5.1	-21.6	-1.4	-0.95	-7.8	0.4	0.0	0.0	9.8	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	233.24	-58.3	4.6	-14.4	-1.1		0.0	0.0	-7.0	0.0	36.7	
Construciton Control Room Max Day	Leq,D	123.7	5461	233.24	-58.3	4.6	-14.4	-1.1		0.0	0.0	-1.0	0.0	53.5	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	244.29	-58.8	4.7	-23.7	-2.0		0.0	0.4	-1.0	0.0	43.5	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	398.15	-63.0	5.2	-24.3	-3.0		0.0	0.3	-1.0	0.0	38.1	
Construction H2 Plant Max Day	Leq,D	123.7	9281	323.76	-61.2	5.0	-14.0	-1.4		0.0	0.3	-1.0	0.0	51.5	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	323.76	-61.2	5.0	-14.0	-1.4		0.0	0.3	-7.0	0.0	34.8	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	190.67	-56.6	4.3	-22.6	-1.4		0.0	0.1	-1.0	0.0	46.6	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	190.67	-56.6	4.3	-22.6	-1.4		0.0	0.1	-7.0	0.0	29.9	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	511.15	-65.2	5.4	-17.8	-1.9	-0.82	0.0	0.5	-1.0	0.0	42.9	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	146.75	-54.3	3.7	-14.0	-0.8		0.0	0.9	-7.0	0.0	41.5	
Construction Unit B Max Day	Leq,D	123.7	20817	146.75	-54.3	3.7	-14.0	-0.8		0.0	0.9	-1.0	0.0	58.2	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	393.37	-62.9	5.0	-14.5	-1.0		2.0	0.1	0.0	0.0	26.6	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	403.11	-63.1	5.0	-21.1	-1.2		-7.8	0.2	0.0	0.0	9.9	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	373.54	-62.4	4.6	-8.1	-1.1		2.3	0.0	0.0	0.0	35.8	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	387.40	-62.8	4.8	-22.0	-1.3		-7.8	9.5	0.0	0.0	21.2	
Cooling Tower M 512	Leq,D	95.7		394.35	-62.9	5.3	-14.3	-1.5		0.0	3.0	0.0	0.0	25.4	
Cooling Tower M 513	Leq,D	95.7		395.42	-62.9	5.3	-14.2	-1.5		0.0	3.0	0.0	0.0	25.4	
Cooling Tower M 514	Leq,D	95.7		393.06	-62.9	5.3	-13.9	-1.5		0.0	2.7	0.0	0.0	25.4	
Heater # 5-Heater	Leq,D	91.1	13	98.58	-50.9	3.5	-12.3	-0.2		0.0	0.1	0.0	0.0	34.3	
Heater # 5-Heater	Leq,D	91.1	13	102.93	-51.2	3.6	-12.5	-0.2		0.0	0.1	0.0	0.0	33.8	
Heater # 5-Heater	Leq,D	91.1	13	107.43	-51.6	3.6	-18.3	-0.2		0.0	0.2	0.0	0.0	27.8	
Hydro Heater H-402	Leq,D	98.1		416.14	-63.4	5.4	-18.3	-0.7		0.0	0.1	0.0	0.0	21.2	
Motor & Pump P 56A/B	Leq,D	93.7		431.98	-63.7	5.4	-15.4	-1.8	-0.17	0.0	0.3	0.0	0.0	18.4	
Motor & Pump P 120/121	Leq,D	96.2	2	469.65	-64.4	5.5	-19.3	-1.4	-0.58	0.0	3.7	0.0	0.0	19.7	
Motor & Pump P 211/212	Leq,D	93.7		434.03	-63.7	5.5	-13.5	-1.8	-0.68	0.0	0.8	0.0	0.0	20.1	
Motor & Pump P 215/214	Leq,D	94.6		437.04	-63.8	5.5	-22.2	-2.0	-0.70	0.0	1.0	0.0	0.0	12.4	
Motor & Pump P 216	Leq,D	98.3		439.89	-63.9	5.4	-24.3	-2.9	-0.19	0.0	5.7	0.0	0.0	18.2	
Motor & Pump P 217/218	Leq,D	93.7		435.25	-63.8	5.6	-12.9	-1.9	-0.69	0.0	0.6	0.0	0.0	20.7	
Motor & Pump P 300	Leq,D	97.1	2	480.29	-64.6	5.5	-22.1	-1.5	-0.37	0.0	7.8	0.0	0.0	21.8	
Motor & Pump P 301	Leq,D	102.1	2	479.23	-64.6	5.5	-22.6	-1.6	-0.31	0.0	7.4	0.0	0.0	25.9	
Motor & Pump P 302	Leq,D	97.1	2	481.42	-64.6	5.5	-21.6	-1.5	-0.42	0.0	7.1	0.0	0.0	21.6	
Motor & Pump P 303	Leq,D	97.1	2	482.44	-64.7	5.5	-21.0	-1.4	-0.47	0.0	5.7	0.0	0.0	20.6	
Motor & Pump P 305	Leq,D	97.5	2	483.38	-64.7	5.5	-20.7	-1.4	-0.51	0.0	1.0	0.0	0.0	16.7	
Motor & Pump P 306	Leq,D	112.6	4	489.11	-64.8	5.4	-19.9	-1.3	-0.73	0.0	1.1	0.0	0.0	32.4	
Motor & Pump P 307	Leq,D	102.1	2	476.20	-64.5	5.5	-24.1	-1.9	-0.28	0.0	0.3	0.0	0.0	17.0	
Motor & Pump P 309	Leq,D	97.5	2	484.32	-64.7	5.5	-19.3	-1.4	-0.56	0.0	0.0	0.0	0.0	17.1	
Motor & Pump P 312	Leq,D	101.5	2	462.91	-64.3	5.6	-13.9	-1.4	-0.28	0.0	0.3	0.0	0.0	27.5	
Motor & Pump P 313	Leq,D	101.5	2	461.85	-64.3	5.6	-20.9	-1.4	-0.22	0.0	1.5	0.0	0.0	21.6	
Motor & Pump P 315	Leq,D	102.9	2	458.30	-64.2	5.5	-23.7	-1.8	-0.11	0.0	0.6	0.0	0.0	19.2	
Motor & Pump P 316	Leq,D	102.9	2	457.16	-64.2	5.5	-19.3	-1.3	-0.57	0.0	0.3	0.0	0.0	23.3	
Motor & Pump P 317	Leq,D	102.9	2	455.94	-64.2	5.5	-19.1	-1.3	-0.64	0.0	0.3	0.0	0.0	23.5	
Motor & Pump P 318	Leq,D	100.2	1	459.04	-64.2	5.6	-24.3	-1.9		0.0	2.7	0.0	0.0	18.0	
Motor & Pump P 319	Leq,D	100.2	1	459.91	-64.2	5.6	-24.3	-1.9		0.0	2.5	0.0	0.0	17.8	
Motor & Pump P 327	Leq,D	111.2	3	494.76	-64.9	5.5	-23.2	-2.5	-0.55	0.0	4.9	0.0	0.0	30.6	
Motor & Pump P 328	Leq,D	109.9	5	485.34	-64.7	5.4	-19.8	-1.5	-0.60	0.0	4.2	0.0	0.0	33.0	
Motor & Pump P 329	Leq,D	110.2	5	487.19	-64.7	5.4	-22.9	-1.7	-0.53	0.0	7.8	0.0	0.0	33.4	
Motor & Pump P 451	Leq,D	93.7		411.28	-63.3	5.4	-22.9	-2.1		0.0	1.2	0.0	0.0	11.9	
Motor & Pump P 453	Leq,D	93.7		402.47	-63.1	5.3	-22.4	-1.9		0.0	5.1	0.0	0.0	16.8	
Motor & Pump P 454	Leq,D	93.7		412.75	-63.3	5.4	-22.3	-1.9		0.0	1.0	0.0	0.0	12.6	
Motor & Pump P 457	Leq,D	93.7		401.64	-63.1	5.3	-22.3	-1.9		0.0	5.0	0.0	0.0	16.8	
Motor & Pump P 458	Leq,D	93.7		410.33	-63.3	5.4	-23.0	-2.1		0.0	1.2	0.0	0.0	11.9	
Motor & Pump P 459	Leq,D	93.7		413.31	-63.3	5.4	-22.8	-2.1		0.0	1.2	0.0	0.0	12.0	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		416.82	-63.4	5.4	-21.8	-1.8		0.0	0.4	0.0	0.0	15.0	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		417.87	-63.4	5.4	-21.8	-1.8	-0.05	0.0	0.4	0.0	0.0	14.9	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		432.84	-63.7	5.5	-13.5	-1.8	-0.24	0.0	0.1	0.0	0.0	21.7	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		433.63	-63.7	5.5	-13.5	-1.8	-0.24	0.0	0.1	0.0	0.0	21.7	
Motor & Pump P 1601 A	Leq,D	96.3	2	395.45	-62.9	5.2	-10.9	-1.9		0.0	0.0	0.0	0.0	25.8	
Motor & Pump P 1601 B	Leq,D	96.3	2	394.28	-62.9	5.2	-13.4	-1.7		0.0	0.0	0.0	0.0	23.5	
Motor & Pump P 1602 A	Leq,D	96.3	2	393.27	-62.9	5.2	-13.3	-1.7		0.0	0.0	0.0	0.0	23.6	
Motor & Pump P 1602 B	Leq,D	96.5	2	392.14	-62.9	5.2	-13.3	-1.7		0.0	0.0	0.0	0.0	23.9	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	409.94	-63.2	5.4	-22.8	-2.1	-0.12	0.0	0.4	0.0	0.0	14.2	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	413.09	-63.3	5.4	-22.1	-1.9	-0.23	0.0	0.0	0.0	0.0	14.5	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	414.66	-63.3	5.4	-21.8	-1.8	-0.23	0.0	0.0	0.0	0.0	14.9	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	418.35	-63.4	5.4	-21.8	-1.8	-0.12	0.0	2.2	0.0	0.0	17.1	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	419.48	-63.4	5.4	-21.8	-1.8	-0.19	0.0	2.7	0.0	0.0	17.5	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	412.85	-63.3	5.4	-13.4	-1.8	-0.03	0.0	0.6	0.0	0.0	23.8	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	414.59	-63.3	5.4	-13.1	-1.9	-0.09	0.0	0.0	0.0	0.0	23.3	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	417.58	-63.4	5.4	-21.1	-1.8	-0.22	0.0	0.0	0.0	0.0	15.2	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	416.23	-63.4	5.5	-21.0	-1.7	-0.16	0.0	0.0	0.0	0.0	15.5	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	306.07	-60.7	5.2	-9.0	-0.5		0.0	0.0	-36.5	0.0	33.2	
Tank Farm Pump 1	Leq,D	99.0	3	238.27	-58.5	5.1	-19.8	-1.1		0.0	0.3	0.0	0.0	24.9	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Tank Farm Pump 2	Leq,D	99.0	3	234.95	-58.4	5.0	-23.0	-1.3		0.0	2.1	0.0	0.0	23.4	
Tank Farm Pump 3	Leq,D	99.0	3	234.15	-58.4	5.0	-23.0	-1.3		0.0	0.9	0.0	0.0	22.2	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	484.62	-64.7	4.8	-14.7	-1.2		0.0	0.2	-14.8	0.0	22.0	
XF-1502 Splitter Area 1	Leq,D	104.5		414.04	-63.3	3.5	-8.5	-1.8	0.00	-3.6	0.0	0.0	0.0	30.8	
XF-1502 Splitter Area 2	Leq,D	104.5		411.62	-63.3	3.5	-8.5	-1.8		-3.6	0.0	0.0	0.0	30.9	
XF-1504 Splitter Area 1	Leq,D	104.5		410.69	-63.3	3.5	-8.5	-1.8	-0.02	-3.6	0.0	0.0	0.0	30.8	
XF-1504 Splitter Area 2	Leq,D	104.5		408.25	-63.2	3.5	-8.5	-1.8		-3.6	0.0	0.0	0.0	30.9	
XF 304, XF 321	Leq,D	110.5	56	483.42	-64.7	3.8	-9.7	-0.9		-2.0	0.2	0.0	0.0	37.3	
XF 313, XF 314	Leq,D	113.0	18	502.75	-65.0	4.3	-13.6	-1.2	-0.21	-2.7	1.2	0.0	0.0	35.8	
XF 335-1, XF 335-2	Leq,D	113.4	54	490.91	-64.8	3.9	-11.4	-1.3	0.00	-2.1	0.1	0.0	0.0	37.9	
XF 503	Leq,D	113.0	21	438.74	-63.8	4.2	-16.0	-1.2	-0.51	-2.9	0.1	0.0	0.0	33.0	
XF - 1601	Leq,D	96.6		393.22	-62.9	3.0	-7.0	-0.9		-1.8	0.0	0.0	0.0	27.1	
XF - 1602	Leq,D	96.6		388.79	-62.8	3.0	-7.0	-0.9		-1.8	0.0	0.0	0.0	27.2	
XF Module 1510	Leq,D	108.3		413.68	-63.3	3.7	-8.4	-1.8	-0.16	-3.6	0.3	0.0	0.0	34.9	
XF Module 1519	Leq,D	109.0		417.08	-63.4	3.7	-8.5	-1.8	-0.31	-3.6	0.0	0.0	0.0	35.2	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								6.6			45.4	
Crude Operatoin Truck Truck Traffic	Leq,D		520								12.6			17.7	
Receiver S-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.0 dB(A) Ld 7-19 dB(A) Leq,N 57.2 dB(A) Le 19-22 dB(A) CNEL 66.7 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	231.71	-58.3	4.6	-7.1	-1.5		0.0	2.3	-8.8	0.0	40.3	
Air Compressor C 1	Leq,D	110.0	5	431.62	-63.7	5.5	-22.4	-1.2	-0.38	0.0	11.6	0.0	0.0	39.4	
Air Compressor Pump	Leq,D	100.3		239.57	-58.6	4.9	-24.0	-2.5		0.0	2.9	0.0	0.0	23.0	
Blower F 401	Leq,D	113.0		350.60	-61.9	5.1	-17.1	-0.4		0.0	2.9	0.0	0.0	41.6	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	52.13	-45.3	3.0	-23.2	-0.2		0.0	8.0	0.0	0.0	40.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	398.72	-63.0	5.0	-14.4	-1.0	-0.92	1.7	3.7	0.0	0.0	35.9	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	398.66	-63.0	5.0	-10.1	-1.4	-0.96	0.0	1.8	0.0	0.0	31.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	409.54	-63.2	5.0	-20.5	-1.0	-0.92	-7.4	9.5	0.0	0.0	27.9	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	405.05	-63.1	5.0	-16.1	-1.1	-1.00	2.9	1.0	0.0	0.0	38.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	398.58	-63.0	5.0	-15.1	-1.0	-0.92	2.8	4.0	0.0	0.0	35.6	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	416.01	-63.4	5.0	-20.4	-1.2	-0.99	-7.8	2.0	0.0	0.0	13.7	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	206.68	-57.3	4.5	-13.1	-1.0		0.0	1.1	-7.0	0.0	40.2	
Construciton Control Room Max Day	Leq,D	123.7	5461	206.68	-57.3	4.5	-13.1	-1.0		0.0	1.1	-1.0	0.0	56.9	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	297.69	-60.5	4.9	-23.8	-2.2		0.0	1.4	-1.0	0.0	42.7	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	430.79	-63.7	5.3	-19.4	-1.6		0.0	2.6	-1.0	0.0	45.9	
Construction H2 Plant Max Day	Leq,D	123.7	9281	282.30	-60.0	4.9	-13.1	-1.4		0.0	2.6	-1.0	0.0	55.6	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	282.30	-60.0	4.9	-13.1	-1.4		0.0	2.6	-7.0	0.0	38.9	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	197.14	-56.9	4.4	-18.1	-1.1		0.0	2.6	-1.0	0.0	53.7	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	197.14	-56.9	4.4	-18.1	-1.1		0.0	2.6	-7.0	0.0	37.0	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	460.05	-64.2	5.3	-17.1	-1.8	-0.92	0.0	4.3	-1.0	0.0	48.2	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	108.72	-51.7	3.3	-12.6	-0.7		0.0	3.0	-7.0	0.0	47.3	
Construction Unit B Max Day	Leq,D	123.7	20817	108.72	-51.7	3.3	-12.6	-0.7		0.0	3.0	-1.0	0.0	64.0	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	345.44	-61.8	4.9	-14.0	-0.8		2.4	1.8	0.0	0.0	30.3	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	354.30	-62.0	4.9	-20.9	-1.1		-7.7	2.0	0.0	0.0	13.1	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	327.50	-61.3	4.4	-9.0	-1.1		2.6	2.7	0.0	0.0	39.0	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	339.88	-61.6	4.6	-21.5	-1.1		-7.7	5.7	0.0	0.0	19.0	
Cooling Tower M 512	Leq,D	95.7		345.44	-61.8	5.2	-17.8	-1.3		0.0	6.4	0.0	0.0	26.5	
Cooling Tower M 513	Leq,D	95.7		346.40	-61.8	5.2	-17.8	-1.3		0.0	6.4	0.0	0.0	26.4	
Cooling Tower M 514	Leq,D	95.7		344.25	-61.7	5.2	-17.8	-1.2		0.0	5.6	0.0	0.0	25.7	
Heater # 5-Heater	Leq,D	91.1	13	54.02	-45.6	3.0	-12.6	-0.1		0.0	1.8	0.0	0.0	40.5	
Heater # 5-Heater	Leq,D	91.1	13	56.27	-46.0	3.0	-20.1	-0.1		0.0	3.9	0.0	0.0	34.7	
Heater # 5-Heater	Leq,D	91.1	13	58.90	-46.4	3.0	-18.5	-0.1		0.0	1.3	0.0	0.0	33.3	
Hydro Heater H-402	Leq,D	98.1		365.49	-62.2	5.3	-17.6	-0.6		0.0	3.9	0.0	0.0	26.8	
Motor & Pump P 56A/B	Leq,D	93.7		382.04	-62.6	5.3	-20.9	-1.6	-0.19	0.0	9.9	0.0	0.0	23.6	
Motor & Pump P 120/121	Leq,D	96.2	2	422.15	-63.5	5.4	-20.3	-1.3	-0.38	0.0	4.1	0.0	0.0	20.2	
Motor & Pump P 211/212	Leq,D	93.7		381.24	-62.6	5.4	-13.7	-1.6	-0.72	0.0	2.6	0.0	0.0	23.0	
Motor & Pump P 215/214	Leq,D	94.6		384.59	-62.7	5.4	-12.4	-1.7	-0.73	0.0	2.7	0.0	0.0	25.2	

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 216	Leq,D	98.3		386.83	-62.7	5.3	-20.9	-2.0	-0.20	0.0	10.3	0.0	0.0	28.0
Motor & Pump P 217/218	Leq,D	93.7		382.59	-62.6	5.5	-14.5	-1.6	-0.73	0.0	2.6	0.0	0.0	22.3
Motor & Pump P 300	Leq,D	97.1	2	432.22	-63.7	5.5	-22.0	-1.4	-0.31	0.0	7.0	0.0	0.0	22.1
Motor & Pump P 301	Leq,D	102.1	2	431.05	-63.7	5.5	-22.4	-1.5	-0.31	0.0	8.5	0.0	0.0	28.3
Motor & Pump P 302	Leq,D	97.1	2	433.47	-63.7	5.5	-21.8	-1.4	-0.32	0.0	6.4	0.0	0.0	21.8
Motor & Pump P 303	Leq,D	97.1	2	434.58	-63.8	5.4	-21.1	-1.3	-0.32	0.0	5.9	0.0	0.0	22.0
Motor & Pump P 305	Leq,D	97.5	2	435.63	-63.8	5.4	-20.6	-1.3	-0.32	0.0	4.3	0.0	0.0	21.2
Motor & Pump P 306	Leq,D	112.6	4	441.98	-63.9	5.4	-19.5	-1.2	-0.52	0.0	4.5	0.0	0.0	37.3
Motor & Pump P 307	Leq,D	102.1	2	427.69	-63.6	5.5	-23.0	-1.6	-0.31	0.0	3.6	0.0	0.0	22.6
Motor & Pump P 309	Leq,D	97.5	2	436.67	-63.8	5.4	-20.4	-1.3	-0.32	0.0	3.8	0.0	0.0	21.0
Motor & Pump P 312	Leq,D	101.5	2	412.88	-63.3	5.5	-22.6	-1.6		0.0	8.2	0.0	0.0	27.8
Motor & Pump P 313	Leq,D	101.5	2	411.71	-63.3	5.5	-20.7	-1.3	-0.26	0.0	6.6	0.0	0.0	28.0
Motor & Pump P 315	Leq,D	102.9	2	407.69	-63.2	5.4	-19.5	-1.2	-0.53	0.0	2.2	0.0	0.0	26.1
Motor & Pump P 316	Leq,D	102.9	2	406.41	-63.2	5.4	-18.7	-1.2	-0.66	0.0	2.4	0.0	0.0	27.0
Motor & Pump P 317	Leq,D	102.9	2	405.06	-63.1	5.4	-18.6	-1.2	-0.72	0.0	2.3	0.0	0.0	27.0
Motor & Pump P 318	Leq,D	100.2	1	408.60	-63.2	5.6	-19.8	-1.2	-0.51	0.0	2.5	0.0	0.0	23.5
Motor & Pump P 319	Leq,D	100.2	1	409.57	-63.2	5.6	-19.7	-1.2	-0.46	0.0	2.4	0.0	0.0	23.5
Motor & Pump P 327	Leq,D	111.2	3	448.12	-64.0	5.5	-24.2	-2.7	-0.45	0.0	9.0	0.0	0.0	34.4
Motor & Pump P 328	Leq,D	109.9	5	437.82	-63.8	5.4	-20.4	-1.3	-0.34	0.0	5.0	0.0	0.0	34.4
Motor & Pump P 329	Leq,D	110.2	5	439.86	-63.9	5.4	-20.5	-1.4	-0.40	0.0	5.7	0.0	0.0	35.0
Motor & Pump P 451	Leq,D	93.7		360.17	-62.1	5.3	-21.1	-1.7		0.0	9.2	0.0	0.0	23.2
Motor & Pump P 453	Leq,D	93.7		350.61	-61.9	5.2	-10.6	-1.7		0.0	2.3	0.0	0.0	27.1
Motor & Pump P 454	Leq,D	93.7		361.59	-62.2	5.3	-21.0	-1.7		0.0	3.2	0.0	0.0	17.4
Motor & Pump P 457	Leq,D	93.7		349.67	-61.9	5.2	-6.9	-2.1		0.0	1.3	0.0	0.0	29.3
Motor & Pump P 458	Leq,D	93.7		359.28	-62.1	5.3	-21.2	-1.7		0.0	9.3	0.0	0.0	23.2
Motor & Pump P 459	Leq,D	93.7		362.22	-62.2	5.3	-21.0	-1.7		0.0	2.2	0.0	0.0	16.3
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		368.86	-62.3	5.3	-20.7	-1.6		0.0	2.7	0.0	0.0	19.6
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		370.05	-62.4	5.3	-20.3	-1.6	-0.02	0.0	2.6	0.0	0.0	19.9
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		388.26	-62.8	5.4	-22.6	-2.0	-0.29	0.0	4.7	0.0	0.0	17.9
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		389.14	-62.8	5.4	-12.9	-1.7	-0.27	0.0	3.1	0.0	0.0	26.2
Motor & Pump P 1601 A	Leq,D	96.3	2	349.67	-61.9	5.1	-22.4	-1.7		0.0	4.7	0.0	0.0	20.1
Motor & Pump P 1601 B	Leq,D	96.3	2	348.62	-61.8	5.1	-22.4	-1.7		0.0	4.7	0.0	0.0	20.1
Motor & Pump P 1602 A	Leq,D	96.3	2	347.69	-61.8	5.1	-15.9	-1.6		0.0	3.2	0.0	0.0	25.3
Motor & Pump P 1602 B	Leq,D	96.5	2	346.69	-61.8	5.1	-13.0	-1.6		0.0	3.2	0.0	0.0	28.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	362.69	-62.2	5.4	-22.4	-1.8	-0.11	0.0	2.9	0.0	0.0	18.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	366.22	-62.3	5.4	-22.8	-2.0	-0.23	0.0	3.2	0.0	0.0	18.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	367.99	-62.3	5.4	-21.9	-1.7	-0.26	0.0	3.1	0.0	0.0	18.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	370.68	-62.4	5.3	-20.8	-1.6	-0.09	0.0	3.8	0.0	0.0	21.0
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	371.94	-62.4	5.3	-21.4	-1.6	-0.15	0.0	3.9	0.0	0.0	20.3
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	367.11	-62.3	5.4	-21.1	-1.6	-0.03	0.0	4.1	0.0	0.0	20.8
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	368.67	-62.3	5.4	-21.0	-1.6	-0.11	0.0	4.1	0.0	0.0	20.8
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	371.35	-62.4	5.4	-21.1	-1.6	-0.24	0.0	4.1	0.0	0.0	20.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	370.13	-62.4	5.4	-21.0	-1.6	-0.18	0.0	4.1	0.0	0.0	20.6
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	236.92	-58.5	4.8	-5.3	-0.5		0.0	2.3	-36.5	0.0	41.0
Tank Farm Pump 1	Leq,D	99.0	3	232.65	-58.3	5.0	-12.5	-1.1		0.0	0.0	0.0	0.0	32.1
Tank Farm Pump 2	Leq,D	99.0	3	235.08	-58.4	5.0	-23.0	-1.3		0.0	3.0	0.0	0.0	24.4
Tank Farm Pump 3	Leq,D	99.0	3	235.90	-58.4	5.0	-22.3	-1.2		0.0	3.9	0.0	0.0	26.0
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	413.36	-63.3	4.6	-5.8	-2.4		0.0	2.6	-14.8	0.0	33.3
XF-1502 Splitter Area 1	Leq,D	104.5		367.67	-62.3	3.2	-13.7	-1.3	0.00	-3.1	6.3	0.0	0.0	33.6
XF-1502 Splitter Area 2	Leq,D	104.5		364.95	-62.2	3.2	-13.4	-1.3		-3.1	2.8	0.0	0.0	30.4
XF-1504 Splitter Area 1	Leq,D	104.5		364.66	-62.2	3.2	-6.6	-1.8	-0.03	-3.9	2.7	0.0	0.0	35.8
XF-1504 Splitter Area 2	Leq,D	104.5		361.92	-62.2	3.1	-13.8	-1.3		-3.1	6.4	0.0	0.0	33.7
XF 304, XF 321	Leq,D	110.5	56	434.82	-63.8	3.6	-12.5	-0.7		-1.6	3.0	0.0	0.0	38.5
XF 313, XF 314	Leq,D	113.0	18	456.17	-64.2	4.1	-17.4	-1.1	-0.17	-2.6	2.0	0.0	0.0	33.7
XF 335-1, XF 335-2	Leq,D	113.4	54	443.13	-63.9	3.7	-13.3	-0.9	0.00	-1.8	3.6	0.0	0.0	40.8
XF 503	Leq,D	113.0	21	387.62	-62.8	4.0	-16.0	-1.1	-0.53	-2.8	2.6	0.0	0.0	36.4
XF - 1601	Leq,D	96.6		347.54	-61.8	3.0	-5.7	-0.9		-2.1	2.5	0.0	0.0	31.6
XF - 1602	Leq,D	96.6		343.61	-61.7	3.0	-5.7	-0.9		-2.1	2.5	0.0	0.0	31.7
XF Module 1510	Leq,D	108.3		366.28	-62.3	3.4	-14.0	-1.3	-0.13	-3.1	3.1	0.0	0.0	34.0
XF Module 1519	Leq,D	109.0		370.10	-62.4	3.4	-23.4	-1.9	-0.02	-3.5	7.5	0.0	0.0	28.7

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								7.3			43.7	
Crude Operatoin Truck Truck Traffic	Leq,D		520								9.0			23.1	
Receiver S-6 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 78.5 dB(A)		Ld 7-19	dB(A)	Leq,N 69.4 dB(A)		Le 19-22	dB(A)	CNEL 79.0 dB(A)		Lmax day hr	dB(A)	Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	104.10	-51.3	3.4	0.0	-1.7		0.0	0.3	-8.8	0.0	50.9	
Air Compressor C 1	Leq,D	110.0	5	343.40	-61.7	5.4	-11.9	-0.7	-0.54	0.0	7.2	0.0	0.0	47.7	
Air Compressor Pump	Leq,D	100.3		151.07	-54.6	4.2	-18.3	-1.7		0.0	5.3	0.0	0.0	35.3	
Blower F 401	Leq,D	113.0		259.25	-59.3	4.8	-11.2	-0.3		0.0	0.5	0.0	0.0	47.5	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	52.31	-45.4	3.0	0.0	-0.3		0.0	0.0	0.0	0.0	55.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	307.66	-60.8	4.7	-10.0	-0.9	-0.93	1.8	1.2	0.0	0.0	39.9	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	307.77	-60.8	4.7	-4.7	-1.1	-0.99	0.0	0.2	0.0	0.0	37.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	318.50	-61.1	4.7	-16.0	-0.6	-0.92	-7.5	3.9	0.0	0.0	29.0	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	313.82	-60.9	4.7	-13.7	-1.0	-0.97	2.8	0.2	0.0	0.0	41.7	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	307.60	-60.8	4.7	-10.0	-0.9	-0.94	2.7	2.0	0.0	0.0	40.6	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	324.76	-61.2	4.7	-19.2	-0.9	-0.90	-7.8	0.6	0.0	0.0	15.7	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	149.82	-54.5	3.9	-5.9	-1.5		0.0	0.0	-7.0	0.0	48.0	
Construciton Control Room Max Day	Leq,D	123.7	5461	149.82	-54.5	3.9	-5.9	-1.5		0.0	0.0	-1.0	0.0	64.7	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	351.74	-61.9	5.1	-16.4	-1.3		0.0	0.1	-1.0	0.0	48.2	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	445.58	-64.0	5.3	-7.0	-2.8		0.0	0.1	-1.0	0.0	54.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	199.90	-57.0	4.4	-2.4	-2.4		0.0	0.3	-1.0	0.0	65.6	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	199.90	-57.0	4.4	-2.4	-2.4		0.0	0.3	-7.0	0.0	48.9	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	189.83	-56.6	4.3	-4.1	-2.3		0.0	0.2	-1.0	0.0	64.3	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	189.83	-56.6	4.3	-4.1	-2.3		0.0	0.2	-7.0	0.0	47.5	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	369.36	-62.3	5.1	-8.4	-2.2	-0.99	0.0	1.3	-1.0	0.0	55.2	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	59.82	-46.5	3.0	-1.2	-0.7		0.0	0.2	-7.0	0.0	60.9	
Construction Unit B Max Day	Leq,D	123.7	20817	59.82	-46.5	3.0	-1.2	-0.7		0.0	0.2	-1.0	0.0	77.6	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	256.93	-59.2	4.5	-5.9	-1.2		2.6	0.1	0.0	0.0	38.8	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	265.08	-59.5	4.5	-18.3	-0.7		-7.7	0.3	0.0	0.0	16.6	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	240.48	-58.6	3.9	-4.7	-1.3		2.9	0.7	0.0	0.0	43.5	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	251.63	-59.0	4.1	-17.4	-0.7		-7.6	0.2	0.0	0.0	20.3	
Cooling Tower M 512	Leq,D	95.7		256.21	-59.2	5.0	-5.0	-1.2		0.0	1.8	0.0	0.0	37.1	
Cooling Tower M 513	Leq,D	95.7		257.10	-59.2	4.9	-4.9	-1.2		0.0	1.9	0.0	0.0	37.2	
Cooling Tower M 514	Leq,D	95.7		255.08	-59.1	4.9	-6.5	-1.1		0.0	2.4	0.0	0.0	36.2	
Heater # 5-Heater	Leq,D	91.1	13	55.48	-45.9	3.0	0.0	-0.3		0.0	0.0	0.0	0.0	50.9	
Heater # 5-Heater	Leq,D	91.1	13	50.50	-45.1	3.0	0.0	-0.3		0.0	1.6	0.0	0.0	53.3	
Heater # 5-Heater	Leq,D	91.1	13	45.38	-44.1	3.0	0.0	-0.3		0.0	1.1	0.0	0.0	53.8	
Hydro Heater H-402	Leq,D	98.1		275.22	-59.8	5.0	-11.3	-0.4		0.0	1.3	0.0	0.0	32.9	
Motor & Pump P 56A/B	Leq,D	93.7		292.07	-60.3	5.1	-16.9	-1.2	-0.20	0.0	7.4	0.0	0.0	27.5	
Motor & Pump P 120/121	Leq,D	96.2	2	333.42	-61.5	5.3	-18.5	-1.1	-0.34	0.0	2.5	0.0	0.0	22.7	
Motor & Pump P 211/212	Leq,D	93.7		290.12	-60.2	5.2	-7.6	-1.5	-0.72	0.0	0.0	0.0	0.0	28.8	
Motor & Pump P 215/214	Leq,D	94.6		293.57	-60.3	5.2	-2.8	-1.9	-0.72	0.0	0.0	0.0	0.0	34.0	
Motor & Pump P 216	Leq,D	98.3		295.63	-60.4	5.1	-8.8	-1.5	-0.20	0.0	0.0	0.0	0.0	32.4	
Motor & Pump P 217/218	Leq,D	93.7		291.50	-60.3	5.4	-8.1	-1.4	-0.74	0.0	0.0	0.0	0.0	28.5	
Motor & Pump P 300	Leq,D	97.1	2	343.10	-61.7	5.3	-19.8	-1.1	-0.33	0.0	8.8	0.0	0.0	28.4	
Motor & Pump P 301	Leq,D	102.1	2	341.86	-61.7	5.3	-20.4	-1.1	-0.33	0.0	10.3	0.0	0.0	34.2	
Motor & Pump P 302	Leq,D	97.1	2	344.41	-61.7	5.3	-19.3	-1.0	-0.33	0.0	7.0	0.0	0.0	27.1	
Motor & Pump P 303	Leq,D	97.1	2	345.58	-61.8	5.3	-18.7	-1.0	-0.33	0.0	5.8	0.0	0.0	26.3	
Motor & Pump P 305	Leq,D	97.5	2	346.68	-61.8	5.3	-18.3	-1.0	-0.34	0.0	4.4	0.0	0.0	25.7	
Motor & Pump P 306	Leq,D	112.6	4	353.39	-62.0	5.2	-17.0	-1.0	-0.36	0.0	2.6	0.0	0.0	40.2	
Motor & Pump P 307	Leq,D	102.1	2	338.32	-61.6	5.3	-21.5	-1.2	-0.32	0.0	2.4	0.0	0.0	25.3	
Motor & Pump P 309	Leq,D	97.5	2	347.78	-61.8	5.3	-17.9	-1.0	-0.34	0.0	3.3	0.0	0.0	25.0	
Motor & Pump P 312	Leq,D	101.5	2	322.76	-61.2	5.4	-15.2	-0.9	-0.38	0.0	5.0	0.0	0.0	34.1	
Motor & Pump P 313	Leq,D	101.5	2	321.53	-61.1	5.4	-15.0	-0.9	-0.43	0.0	4.7	0.0	0.0	34.1	
Motor & Pump P 315	Leq,D	102.9	2	317.32	-61.0	5.3	-7.4	-1.1	-0.63	0.0	1.1	0.0	0.0	39.1	
Motor & Pump P 316	Leq,D	102.9	2	315.98	-61.0	5.3	-6.1	-1.2	-0.69	0.0	0.7	0.0	0.0	40.0	
Motor & Pump P 317	Leq,D	102.9	2	314.57	-60.9	5.2	-4.9	-1.3	-0.74	0.0	0.2	0.0	0.0	40.5	
Motor & Pump P 318	Leq,D	100.2	1	318.30	-61.0	5.4	-13.5	-1.0		0.0	3.1	0.0	0.0	33.2	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 319	Leq,D	100.2	1	319.31	-61.1	5.4	-14.2	-1.0	-0.51	0.0	1.8	0.0	0.0	30.7	
Motor & Pump P 327	Leq,D	111.2	3	359.82	-62.1	5.3	-21.6	-1.8	-0.31	0.0	6.8	0.0	0.0	37.5	
Motor & Pump P 328	Leq,D	109.9	5	349.01	-61.8	5.2	-17.6	-1.0	-0.34	0.0	3.7	0.0	0.0	38.0	
Motor & Pump P 329	Leq,D	110.2	5	351.16	-61.9	5.2	-19.0	-1.1	-0.33	0.0	5.3	0.0	0.0	38.3	
Motor & Pump P 451	Leq,D	93.7		269.70	-59.6	5.0	-8.2	-1.5		0.0	0.0	0.0	0.0	29.3	
Motor & Pump P 453	Leq,D	93.7		259.86	-59.3	5.0	-2.6	-1.9		0.0	0.9	0.0	0.0	35.8	
Motor & Pump P 454	Leq,D	93.7		271.09	-59.7	5.0	-7.0	-1.7		0.0	0.0	0.0	0.0	30.4	
Motor & Pump P 457	Leq,D	93.7		258.87	-59.3	5.0	-3.6	-1.6		0.0	0.9	0.0	0.0	35.0	
Motor & Pump P 458	Leq,D	93.7		268.85	-59.6	5.0	-10.9	-1.1		0.0	3.1	0.0	0.0	30.2	
Motor & Pump P 459	Leq,D	93.7		271.76	-59.7	5.0	-8.2	-1.5		0.0	0.0	0.0	0.0	29.2	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		280.11	-59.9	5.1	-18.4	-1.2		0.0	0.2	0.0	0.0	22.1	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		281.37	-60.0	5.1	-17.9	-1.2	-0.01	0.0	0.4	0.0	0.0	22.7	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		301.85	-60.6	5.2	-4.5	-2.2	-0.29	0.0	0.2	0.0	0.0	33.2	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		302.79	-60.6	5.2	-16.2	-1.3	-0.32	0.0	1.5	0.0	0.0	23.7	
Motor & Pump P 1601 A	Leq,D	96.3	2	262.64	-59.4	4.8	-18.5	-1.1		0.0	0.7	0.0	0.0	22.9	
Motor & Pump P 1601 B	Leq,D	96.3	2	261.71	-59.3	4.8	-17.8	-1.1		0.0	7.2	0.0	0.0	30.1	
Motor & Pump P 1602 A	Leq,D	96.3	2	260.85	-59.3	4.8	-16.8	-1.1		0.0	7.5	0.0	0.0	31.4	
Motor & Pump P 1602 B	Leq,D	96.5	2	259.96	-59.3	4.8	-13.9	-1.1		0.0	3.6	0.0	0.0	30.6	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	274.46	-59.8	5.2	-17.5	-1.1	-0.10	0.0	0.3	0.0	0.0	23.6	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	278.24	-59.9	5.2	-20.7	-1.8	-0.20	0.0	0.9	0.0	0.0	20.1	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	280.13	-59.9	5.2	-18.8	-1.1	-0.28	0.0	0.5	0.0	0.0	22.1	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	282.10	-60.0	5.1	-16.8	-1.2	-0.07	0.0	0.3	0.0	0.0	24.1	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	283.46	-60.0	5.1	-16.6	-1.2	-0.12	0.0	0.4	0.0	0.0	24.3	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	279.95	-59.9	5.2	-17.3	-1.1	-0.03	0.0	0.8	0.0	0.0	24.0	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	281.36	-60.0	5.2	-17.5	-1.1	-0.12	0.0	0.7	0.0	0.0	23.5	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	283.79	-60.1	5.2	-17.8	-1.1	-0.26	0.0	0.0	0.0	0.0	22.3	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	282.67	-60.0	5.2	-17.7	-1.1	-0.20	0.0	0.7	0.0	0.0	23.1	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	102.41	-51.2	3.4	-0.1	-0.3		0.0	0.2	-36.5	0.0	50.3	
Tank Farm Pump 1	Leq,D	99.0	3	204.77	-57.2	4.9	-3.6	-1.4		0.0	1.3	0.0	0.0	43.0	
Tank Farm Pump 2	Leq,D	99.0	3	215.34	-57.7	5.0	-4.8	-1.6		0.0	0.0	0.0	0.0	39.9	
Tank Farm Pump 3	Leq,D	99.0	3	218.40	-57.8	5.0	-4.8	-1.7		0.0	0.3	0.0	0.0	40.1	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	284.19	-60.1	3.8	-0.1	-3.2		0.0	0.9	-14.8	0.0	39.0	
XF-1502 Splitter Area 1	Leq,D	104.5		280.06	-59.9	3.0	-2.9	-2.4	-0.02	-4.3	0.0	0.0	0.0	37.9	
XF-1502 Splitter Area 2	Leq,D	104.5		277.15	-59.8	3.0	-2.1	-2.4		-4.4	0.0	0.0	0.0	38.7	
XF-1504 Splitter Area 1	Leq,D	104.5		277.33	-59.9	3.0	-2.9	-2.4	-0.04	-4.3	0.8	0.0	0.0	38.8	
XF-1504 Splitter Area 2	Leq,D	104.5		274.38	-59.8	3.0	-2.1	-2.4		-4.4	0.7	0.0	0.0	39.5	
XF 304, XF 321	Leq,D	110.5	56	345.39	-61.8	3.0	-6.5	-0.8		-2.3	0.3	0.0	0.0	42.4	
XF 313, XF 314	Leq,D	113.0	18	367.89	-62.3	3.7	-7.4	-1.2	-0.36	-3.3	1.1	0.0	0.0	43.2	
XF 335-1, XF 335-2	Leq,D	113.4	54	354.16	-62.0	3.1	-4.5	-1.5	0.00	-2.8	0.5	0.0	0.0	46.1	
XF 503	Leq,D	113.0	21	297.09	-60.4	3.3	-2.0	-2.5	-0.56	-3.7	0.0	0.0	0.0	47.1	
XF - 1601	Leq,D	96.6		260.69	-59.3	3.0	-0.2	-0.9		-2.6	0.4	0.0	0.0	36.9	
XF - 1602	Leq,D	96.6		257.21	-59.2	3.0	-0.2	-0.9		-2.6	0.4	0.0	0.0	37.1	
XF Module 1510	Leq,D	108.3		277.95	-59.9	3.0	-4.7	-1.9	-0.13	-4.2	1.2	0.0	0.0	41.7	
XF Module 1519	Leq,D	109.0		282.03	-60.0	3.0	-11.4	-1.2	-0.02	-3.4	2.9	0.0	0.0	39.0	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								2.3			49.7	
Crude Operatoin Truck Truck Traffic	Leq,D		520								3.2			26.4	
Receiver S-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 80.4 dB(A) Ld 7-19 dB(A) Leq,N 70.7 dB(A) Le 19-22 dB(A) CNEL 80.6 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	31.87	-41.1	3.0	0.0	-0.6		0.0	0.0	-8.8	0.0	61.6	
Air Compressor C 1	Leq,D	110.0	5	257.44	-59.2	5.2	-13.1	-0.5	-0.39	0.0	3.6	0.0	0.0	45.6	
Air Compressor Pump	Leq,D	100.3		70.51	-48.0	3.0	-18.9	-1.2		0.0	4.1	0.0	0.0	39.4	
Blower F 401	Leq,D	113.0		167.98	-55.5	4.1	-11.5	-0.2		0.0	0.8	0.0	0.0	50.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	139.62	-53.9	4.0	-6.0	-0.5		0.0	0.0	0.0	0.0	42.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	216.92	-57.7	4.1	-12.3	-0.7	-0.96	2.1	2.6	0.0	0.0	41.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	217.36	-57.7	4.1	-4.2	-1.0	-1.02	0.0	0.2	0.0	0.0	40.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	227.79	-58.1	4.2	-17.1	-0.5	-0.92	-7.6	3.2	0.0	0.0	29.6	

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	222.75	-57.9	4.2	-14.5	-0.8	-0.94	2.8	0.3	0.0	0.0	43.8	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	217.02	-57.7	4.1	-11.7	-0.6	-0.97	2.6	1.4	0.0	0.0	40.8	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	233.66	-58.4	4.2	-18.6	-0.7	-0.94	-7.8	7.1	0.0	0.0	25.4	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	132.85	-53.5	3.6	-0.1	-1.7		0.0	0.3	-7.0	0.0	54.6	
Construciton Control Room Max Day	Leq,D	123.7	5461	132.85	-53.5	3.6	-0.1	-1.7		0.0	0.3	-1.0	0.0	71.3	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	418.98	-63.4	5.2	-15.0	-1.5		0.0	0.0	-1.0	0.0	48.0	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	477.77	-64.6	5.3	-10.6	-2.3		0.0	0.8	-1.0	0.0	51.4	
Construction H2 Plant Max Day	Leq,D	123.7	9281	130.92	-53.3	3.5	-6.1	-1.3		0.0	0.8	-1.0	0.0	66.3	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	130.92	-53.3	3.5	-6.1	-1.3		0.0	0.8	-7.0	0.0	49.5	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	223.16	-58.0	4.6	-3.4	-3.0		0.0	0.4	-1.0	0.0	63.3	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	223.16	-58.0	4.6	-3.4	-3.0		0.0	0.4	-7.0	0.0	46.6	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	278.96	-59.9	4.9	-9.3	-1.6	-0.96	0.0	1.9	-1.0	0.0	57.7	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	56.03	-46.0	3.1	-0.1	-0.6		0.0	0.1	-7.0	0.0	62.5	
Construction Unit B Max Day	Leq,D	123.7	20817	56.03	-46.0	3.1	-0.1	-0.6		0.0	0.1	-1.0	0.0	79.2	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	171.29	-55.7	3.9	-4.0	-0.8		3.1	0.0	0.0	0.0	44.4	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	178.13	-56.0	3.9	-20.1	-0.6		-7.2	0.7	0.0	0.0	18.4	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	158.56	-55.0	3.4	-6.5	-0.8		3.8	1.0	0.0	0.0	46.4	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	166.84	-55.4	3.6	-16.4	-0.5		-6.9	0.3	0.0	0.0	25.5	
Cooling Tower M 512	Leq,D	95.7		169.36	-55.6	4.4	-11.8	-0.7		0.0	0.6	0.0	0.0	32.7	
Cooling Tower M 513	Leq,D	95.7		170.09	-55.6	4.4	-13.1	-0.7		0.0	0.7	0.0	0.0	31.4	
Cooling Tower M 514	Leq,D	95.7		168.39	-55.5	4.4	-10.2	-0.7		0.0	4.1	0.0	0.0	37.7	
Heater # 5-Heater	Leq,D	91.1	13	141.33	-54.0	4.1	-18.0	-0.3		0.0	0.0	0.0	0.0	25.9	
Heater # 5-Heater	Leq,D	91.1	13	136.64	-53.7	4.0	-17.3	-0.3		0.0	0.0	0.0	0.0	26.8	
Heater # 5-Heater	Leq,D	91.1	13	131.85	-53.4	3.9	-16.1	-0.3		0.0	0.0	0.0	0.0	28.2	
Hydro Heater H-402	Leq,D	98.1		186.09	-56.4	4.6	-5.0	-0.7		0.0	0.1	0.0	0.0	40.7	
Motor & Pump P 56A/B	Leq,D	93.7		203.40	-57.2	4.7	-11.8	-1.0	-0.20	0.0	0.0	0.0	0.0	28.1	
Motor & Pump P 120/121	Leq,D	96.2	2	246.67	-58.8	5.0	-17.3	-0.8	-0.38	0.0	2.1	0.0	0.0	26.0	
Motor & Pump P 211/212	Leq,D	93.7		199.30	-57.0	4.8	-7.3	-1.1	-0.75	0.0	0.3	0.0	0.0	32.6	
Motor & Pump P 215/214	Leq,D	94.6		202.92	-57.1	4.9	-8.4	-1.1	-0.77	0.0	2.5	0.0	0.0	34.7	
Motor & Pump P 216	Leq,D	98.3		204.65	-57.2	4.7	-10.5	-1.0	-0.20	0.0	2.9	0.0	0.0	37.0	
Motor & Pump P 217/218	Leq,D	93.7		200.74	-57.0	5.1	-9.2	-1.0	-0.76	0.0	0.9	0.0	0.0	31.7	
Motor & Pump P 300	Leq,D	97.1	2	255.62	-59.1	5.1	-19.7	-0.8	-0.37	0.0	1.4	0.0	0.0	23.6	
Motor & Pump P 301	Leq,D	102.1	2	254.28	-59.1	5.1	-20.0	-0.9	-0.37	0.0	1.5	0.0	0.0	28.3	
Motor & Pump P 302	Leq,D	97.1	2	257.04	-59.2	5.1	-19.3	-0.8	-0.37	0.0	1.3	0.0	0.0	23.9	
Motor & Pump P 303	Leq,D	97.1	2	258.28	-59.2	5.1	-18.8	-0.8	-0.37	0.0	1.2	0.0	0.0	24.2	
Motor & Pump P 305	Leq,D	97.5	2	259.47	-59.3	5.1	-18.3	-0.8	-0.38	0.0	0.9	0.0	0.0	24.7	
Motor & Pump P 306	Leq,D	112.6	4	266.73	-59.5	5.0	-19.5	-0.9	-0.41	0.0	1.9	0.0	0.0	39.2	
Motor & Pump P 307	Leq,D	102.1	2	250.46	-59.0	5.1	-19.6	-0.9	-0.36	0.0	2.8	0.0	0.0	30.2	
Motor & Pump P 309	Leq,D	97.5	2	260.66	-59.3	5.1	-17.8	-0.8	-0.38	0.0	0.2	0.0	0.0	24.4	
Motor & Pump P 312	Leq,D	101.5	2	233.68	-58.4	5.1	-8.0	-0.7	-0.50	0.0	1.7	0.0	0.0	40.7	
Motor & Pump P 313	Leq,D	101.5	2	232.35	-58.3	5.1	-10.9	-0.7	-0.54	0.0	2.8	0.0	0.0	39.0	
Motor & Pump P 315	Leq,D	102.9	2	227.79	-58.1	5.0	-5.1	-0.8	-0.68	0.0	0.7	0.0	0.0	43.9	
Motor & Pump P 316	Leq,D	102.9	2	226.35	-58.1	5.0	-4.2	-0.8	-0.77	0.0	0.4	0.0	0.0	44.4	
Motor & Pump P 317	Leq,D	102.9	2	224.85	-58.0	4.9	-5.6	-0.8	-0.83	0.0	0.6	0.0	0.0	43.2	
Motor & Pump P 318	Leq,D	100.2	1	228.90	-58.2	5.2	-10.3	-0.7	-0.65	0.0	2.5	0.0	0.0	38.0	
Motor & Pump P 319	Leq,D	100.2	1	229.99	-58.2	5.2	-13.6	-0.7		0.0	3.8	0.0	0.0	36.7	
Motor & Pump P 327	Leq,D	111.2	3	273.59	-59.7	5.1	-22.1	-1.5	-0.38	0.0	5.8	0.0	0.0	38.5	
Motor & Pump P 328	Leq,D	109.9	5	262.01	-59.4	4.9	-18.0	-0.8	-0.38	0.0	0.8	0.0	0.0	37.1	
Motor & Pump P 329	Leq,D	110.2	5	264.33	-59.4	4.9	-19.6	-0.9	-0.37	0.0	2.0	0.0	0.0	36.8	
Motor & Pump P 451	Leq,D	93.7		180.21	-56.1	4.5	-4.1	-1.2		0.0	0.0	0.0	0.0	36.8	
Motor & Pump P 453	Leq,D	93.7		169.84	-55.6	4.4	-5.1	-1.0		0.0	0.0	0.0	0.0	36.4	
Motor & Pump P 454	Leq,D	93.7		181.54	-56.2	4.5	-4.6	-1.1		0.0	0.3	0.0	0.0	36.6	
Motor & Pump P 457	Leq,D	93.7		168.77	-55.5	4.4	-4.3	-1.1		0.0	0.0	0.0	0.0	37.2	
Motor & Pump P 458	Leq,D	93.7		179.42	-56.1	4.5	-3.5	-1.3		0.0	0.0	0.0	0.0	37.3	
Motor & Pump P 459	Leq,D	93.7		182.27	-56.2	4.6	-4.1	-1.2		0.0	0.2	0.0	0.0	36.9	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		193.87	-56.7	4.7	-17.9	-0.9		0.0	0.2	0.0	0.0	25.6	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		195.26	-56.8	4.8	-21.0	-1.0		0.0	0.5	0.0	0.0	22.7	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		219.54	-57.8	4.9	-17.7	-1.0	-0.38	0.0	2.7	0.0	0.0	26.2	

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		220.58	-57.9	4.9	-17.6	-1.0	-0.38	0.0	3.3	0.0	0.0	26.7	
Motor & Pump P 1601 A	Leq,D	96.3	2	180.05	-56.1	4.3	-21.9	-1.0		0.0	9.0	0.0	0.0	30.6	
Motor & Pump P 1601 B	Leq,D	96.3	2	179.36	-56.1	4.3	-22.0	-1.0		0.0	4.9	0.0	0.0	26.4	
Motor & Pump P 1602 A	Leq,D	96.3	2	178.66	-56.0	4.3	-22.1	-1.1		0.0	0.8	0.0	0.0	22.2	
Motor & Pump P 1602 B	Leq,D	96.5	2	178.01	-56.0	4.3	-22.1	-1.0		0.0	1.2	0.0	0.0	22.8	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	189.29	-56.5	4.8	-14.7	-1.1	-0.09	0.0	0.2	0.0	0.0	29.1	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	193.48	-56.7	4.8	-12.1	-1.2	-0.20	0.0	0.1	0.0	0.0	31.3	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	195.59	-56.8	4.8	-17.3	-1.0	-0.22	0.0	0.5	0.0	0.0	26.5	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	196.17	-56.8	4.8	-18.8	-0.9	-0.04	0.0	4.0	0.0	0.0	28.9	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	197.67	-56.9	4.8	-16.8	-0.9	-0.08	0.0	3.0	0.0	0.0	29.8	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	196.73	-56.9	4.8	-19.5	-0.9	-0.04	0.0	0.9	0.0	0.0	24.7	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	197.83	-56.9	4.8	-18.9	-0.9	-0.15	0.0	0.6	0.0	0.0	24.9	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	199.73	-57.0	4.8	-17.0	-0.9	-0.33	0.0	0.5	0.0	0.0	26.5	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	198.84	-57.0	4.8	-18.2	-0.9	-0.25	0.0	0.0	0.0	0.0	24.8	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	36.33	-42.2	3.0	0.0	-0.1		0.0	0.1	-36.5	0.0	59.0	
Tank Farm Pump 1	Leq,D	99.0	3	215.55	-57.7	5.0	-4.7	-1.7		0.0	1.2	0.0	0.0	41.2	
Tank Farm Pump 2	Leq,D	99.0	3	232.82	-58.3	5.0	-4.8	-1.8		0.0	0.8	0.0	0.0	40.0	
Tank Farm Pump 3	Leq,D	99.0	3	237.64	-58.5	5.1	-4.8	-1.8		0.0	0.8	0.0	0.0	39.8	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	96.22	-50.7	3.1	0.0	-1.1		0.0	0.2	-14.8	0.0	49.1	
XF-1502 Splitter Area 1	Leq,D	104.5		195.99	-56.8	3.0	-4.7	-1.4	-0.23	-4.2	0.8	0.0	0.0	40.9	
XF-1502 Splitter Area 2	Leq,D	104.5		192.76	-56.7	3.0	-2.0	-1.2		-4.0	0.4	0.0	0.0	44.0	
XF-1504 Splitter Area 1	Leq,D	104.5		193.83	-56.7	3.0	-4.7	-1.4	-0.05	-4.2	0.7	0.0	0.0	41.2	
XF-1504 Splitter Area 2	Leq,D	104.5		190.56	-56.6	3.0	-4.6	-1.4	-0.02	-4.2	0.7	0.0	0.0	41.4	
XF 304, XF 321	Leq,D	110.5	56	257.40	-59.2	3.0	-7.8	-0.5		-2.0	1.0	0.0	0.0	45.1	
XF 313, XF 314	Leq,D	113.0	18	281.63	-60.0	3.0	-11.7	-0.7	-0.40	-2.8	0.0	0.0	0.0	40.4	
XF 335-1, XF 335-2	Leq,D	113.4	54	266.88	-59.5	3.0	-9.8	-0.7	0.00	-2.1	0.3	0.0	0.0	44.6	
XF 503	Leq,D	113.0	21	207.35	-57.3	3.0	-3.3	-2.4	-0.60	-3.8	0.4	0.0	0.0	49.1	
XF - 1601	Leq,D	96.6		178.49	-56.0	3.0	-0.7	-0.7		-3.3	0.5	0.0	0.0	39.4	
XF - 1602	Leq,D	96.6		175.98	-55.9	3.0	-0.7	-0.7		-3.3	0.9	0.0	0.0	39.9	
XF Module 1510	Leq,D	108.3		192.53	-56.7	3.0	-3.0	-1.2	-0.12	-4.1	0.5	0.0	0.0	46.8	
XF Module 1519	Leq,D	109.0		197.06	-56.9	3.0	-3.6	-1.3	-0.24	-4.0	0.6	0.0	0.0	46.6	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								1.5			53.7	
Crude Operatoin Truck Truck Traffic	Leq,D		520								1.0			30.1	
Receiver S-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 76.8 dB(A) Ld 7-19 dB(A) Leq,N 68.2 dB(A) Le 19-22 dB(A) CNEL 77.5 dB(A) Lmax day hr dB(A) Ld 7-19															
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	20.47	-37.2	3.0	0.0	-0.4		0.0	0.0	-8.8	0.0	65.7	
Air Compressor C 1	Leq,D	110.0	5	177.05	-56.0	4.8	-8.8	-0.4	-0.59	0.0	2.8	0.0	0.0	51.9	
Air Compressor Pump	Leq,D	100.3		61.99	-46.8	3.0	-15.7	-0.7		0.0	12.8	0.0	0.0	52.9	
Blower F 401	Leq,D	113.0		77.11	-48.7	3.0	-12.1	-0.1		0.0	0.4	0.0	0.0	55.4	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	230.15	-58.2	4.8	-12.0	-0.5		0.0	0.1	0.0	0.0	32.8	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	127.19	-53.1	3.4	-14.2	-0.3	-1.05	2.4	2.5	0.0	0.0	44.5	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	128.37	-53.2	3.4	-5.8	-0.4	-1.17	0.0	1.3	0.0	0.0	44.7	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	138.07	-53.8	3.5	-18.1	-0.3	-0.99	-7.7	8.5	0.0	0.0	37.6	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	132.19	-53.4	3.4	-14.8	-0.5	-0.86	2.5	0.1	0.0	0.0	47.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	127.64	-53.1	3.4	-12.6	-0.3	-1.10	2.3	1.0	0.0	0.0	43.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	142.94	-54.1	3.5	-19.0	-0.5	-0.80	-7.8	9.5	0.0	0.0	31.3	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	172.14	-55.7	4.1	-5.4	-1.6		0.0	0.5	-7.0	0.0	48.0	
Construciton Control Room Max Day	Leq,D	123.7	5461	172.14	-55.7	4.1	-5.4	-1.6		0.0	0.5	-1.0	0.0	64.7	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	494.04	-64.9	5.4	-16.6	-1.6		0.0	0.1	-1.0	0.0	45.1	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	524.14	-65.4	5.4	-13.9	-2.7		0.0	1.5	-1.0	0.0	47.7	
Construction H2 Plant Max Day	Leq,D	123.7	9281	99.87	-51.0	3.2	-1.5	-1.3		0.0	0.3	-1.0	0.0	72.5	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	99.87	-51.0	3.2	-1.5	-1.3		0.0	0.3	-7.0	0.0	55.7	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	284.46	-60.1	4.9	-2.7	-3.3		0.0	0.7	-1.0	0.0	62.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	284.46	-60.1	4.9	-2.7	-3.3		0.0	0.7	-7.0	0.0	45.5	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	189.31	-56.5	4.3	-10.2	-1.2	-1.07	0.0	1.1	-1.0	0.0	59.1	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	120.75	-52.6	3.4	-0.2	-1.4		0.0	0.3	-7.0	0.0	55.5	
Construction Unit B Max Day	Leq,D	123.7	20817	120.75	-52.6	3.4	-0.2	-1.4		0.0	0.3	-1.0	0.0	72.2	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	97.13	-50.7	3.2	-13.7	-0.2		3.9	0.1	0.0	0.0	40.5	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	99.57	-51.0	3.2	-17.7	-0.3		-4.4	0.0	0.0	0.0	27.7	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	95.66	-50.6	3.0	-8.7	-0.4		-2.4	0.1	0.0	0.0	41.6	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	95.22	-50.6	3.0	-18.2	-0.3		-1.3	6.1	0.0	0.0	39.4	
Cooling Tower M 512	Leq,D	95.7		91.90	-50.3	3.1	-20.1	-0.4		0.0	1.3	0.0	0.0	29.4	
Cooling Tower M 513	Leq,D	95.7		92.10	-50.3	3.0	-20.8	-0.4		0.0	1.6	0.0	0.0	28.8	
Cooling Tower M 514	Leq,D	95.7		91.45	-50.2	3.1	-20.5	-0.4		0.0	1.6	0.0	0.0	29.3	
Heater # 5-Heater	Leq,D	91.1	13	231.49	-58.3	4.8	-18.8	-0.5		0.0	8.0	0.0	0.0	29.3	
Heater # 5-Heater	Leq,D	91.1	13	226.95	-58.1	4.8	-18.4	-0.5		0.0	8.0	0.0	0.0	29.8	
Heater # 5-Heater	Leq,D	91.1	13	222.33	-57.9	4.8	-18.1	-0.5		0.0	7.6	0.0	0.0	29.9	
Hydro Heater H-402	Leq,D	98.1		101.16	-51.1	3.4	-4.8	-0.2		0.0	0.1	0.0	0.0	45.5	
Motor & Pump P 56A/B	Leq,D	93.7		119.00	-52.5	3.8	-7.4	-0.6	-0.30	0.0	0.7	0.0	0.0	37.3	
Motor & Pump P 120/121	Leq,D	96.2	2	165.07	-55.3	4.6	-16.9	-0.6	-0.27	0.0	2.2	0.0	0.0	30.0	
Motor & Pump P 211/212	Leq,D	93.7		109.51	-51.8	3.8	-6.3	-0.7	-0.81	0.0	0.3	0.0	0.0	38.2	
Motor & Pump P 215/214	Leq,D	94.6		113.55	-52.1	4.0	-8.2	-0.6	-0.88	0.0	0.1	0.0	0.0	36.9	
Motor & Pump P 216	Leq,D	98.3		114.41	-52.2	3.7	-11.5	-0.6	-0.87	0.0	4.3	0.0	0.0	41.3	
Motor & Pump P 217/218	Leq,D	93.7		111.10	-51.9	4.4	-7.4	-0.7	-0.85	0.0	0.3	0.0	0.0	37.5	
Motor & Pump P 300	Leq,D	97.1	2	172.29	-55.7	4.7	-18.1	-0.6	-0.49	0.0	8.0	0.0	0.0	35.0	
Motor & Pump P 301	Leq,D	102.1	2	170.79	-55.6	4.7	-18.1	-0.6	-0.49	0.0	8.6	0.0	0.0	40.6	
Motor & Pump P 302	Leq,D	97.1	2	173.89	-55.8	4.7	-17.9	-0.6	-0.50	0.0	8.0	0.0	0.0	35.1	
Motor & Pump P 303	Leq,D	97.1	2	175.27	-55.9	4.6	-17.5	-0.6	-0.50	0.0	7.9	0.0	0.0	35.1	
Motor & Pump P 305	Leq,D	97.5	2	176.60	-55.9	4.6	-17.5	-0.6	-0.51	0.0	7.7	0.0	0.0	35.3	
Motor & Pump P 306	Leq,D	112.6	4	184.75	-56.3	4.5	-18.3	-0.7	-0.43	0.0	5.6	0.0	0.0	47.0	
Motor & Pump P 307	Leq,D	102.1	2	166.48	-55.4	4.6	-16.7	-0.6	-0.48	0.0	5.9	0.0	0.0	39.5	
Motor & Pump P 309	Leq,D	97.5	2	177.94	-56.0	4.6	-17.6	-0.6	-0.51	0.0	7.4	0.0	0.0	34.9	
Motor & Pump P 312	Leq,D	101.5	2	147.50	-54.4	4.7	-9.3	-0.5	-0.72	0.0	2.8	0.0	0.0	44.1	
Motor & Pump P 313	Leq,D	101.5	2	145.99	-54.3	4.6	-5.7	-0.6	-0.83	0.0	1.1	0.0	0.0	45.9	
Motor & Pump P 315	Leq,D	102.9	2	140.75	-54.0	4.4	-3.6	-0.6	-0.96	0.0	0.8	0.0	0.0	48.9	
Motor & Pump P 316	Leq,D	102.9	2	139.11	-53.9	4.4	-4.0	-0.6	-1.00	0.0	1.0	0.0	0.0	48.9	
Motor & Pump P 317	Leq,D	102.9	2	137.43	-53.8	4.2	-3.9	-0.6	-1.04	0.0	0.9	0.0	0.0	48.8	
Motor & Pump P 318	Leq,D	100.2	1	142.11	-54.0	4.7	0.0	-0.8	-0.89	0.0	0.3	0.0	0.0	49.5	
Motor & Pump P 319	Leq,D	100.2	1	143.36	-54.1	4.7	0.0	-0.8	-0.86	0.0	0.3	0.0	0.0	49.5	
Motor & Pump P 327	Leq,D	111.2	3	192.24	-56.7	4.7	-22.4	-1.2	-0.08	0.0	4.8	0.0	0.0	40.4	
Motor & Pump P 328	Leq,D	109.9	5	179.48	-56.1	4.5	-17.3	-0.6	-0.30	0.0	6.1	0.0	0.0	46.3	
Motor & Pump P 329	Leq,D	110.2	5	182.08	-56.2	4.5	-18.1	-0.6	-0.31	0.0	7.1	0.0	0.0	46.5	
Motor & Pump P 451	Leq,D	93.7		94.53	-50.5	3.2	-11.4	-0.5		0.0	0.7	0.0	0.0	35.1	
Motor & Pump P 453	Leq,D	93.7		83.00	-49.4	3.0	-8.4	-0.4		0.0	1.2	0.0	0.0	39.7	
Motor & Pump P 454	Leq,D	93.7		95.63	-50.6	3.2	-12.4	-0.4		0.0	0.8	0.0	0.0	34.3	
Motor & Pump P 457	Leq,D	93.7		81.70	-49.2	3.0	-7.6	-0.4		0.0	1.0	0.0	0.0	40.4	
Motor & Pump P 458	Leq,D	93.7		93.97	-50.5	3.2	-8.6	-0.5		0.0	0.0	0.0	0.0	37.4	
Motor & Pump P 459	Leq,D	93.7		96.50	-50.7	3.3	-11.8	-0.5		0.0	0.7	0.0	0.0	34.7	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		115.89	-52.3	3.9	-17.2	-0.6		0.0	0.1	0.0	0.0	30.2	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		117.51	-52.4	3.9	-17.7	-0.6		0.0	0.2	0.0	0.0	29.6	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		148.35	-54.4	4.4	-20.2	-0.8	-0.26	0.0	4.1	0.0	0.0	28.2	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		149.50	-54.5	4.4	-20.2	-0.8	-0.27	0.0	4.2	0.0	0.0	28.2	
Motor & Pump P 1601 A	Leq,D	96.3	2	112.15	-52.0	3.3	-21.7	-0.8		0.0	1.1	0.0	0.0	26.2	
Motor & Pump P 1601 B	Leq,D	96.3	2	112.11	-52.0	3.3	-21.8	-0.8		0.0	0.4	0.0	0.0	25.4	
Motor & Pump P 1602 A	Leq,D	96.3	2	111.89	-52.0	3.3	-21.9	-0.8		0.0	0.4	0.0	0.0	25.3	
Motor & Pump P 1602 B	Leq,D	96.5	2	111.89	-52.0	3.3	-21.9	-0.8		0.0	0.4	0.0	0.0	25.5	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	114.28	-52.2	4.0	-20.8	-0.7	-0.08	0.0	4.5	0.0	0.0	31.4	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	119.07	-52.5	4.0	-20.0	-0.6	-0.19	0.0	4.4	0.0	0.0	31.7	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	121.48	-52.7	4.1	-19.9	-0.6	-0.24	0.0	4.4	0.0	0.0	31.7	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	118.78	-52.5	3.9	-17.8	-0.6		0.0	1.9	0.0	0.0	31.6	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	120.51	-52.6	4.0	-17.8	-0.6		0.0	3.4	0.0	0.0	33.0	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	125.51	-53.0	4.2	-16.5	-0.5	-0.17	0.0	0.6	0.0	0.0	30.8	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	125.82	-53.0	4.2	-20.3	-0.7	-0.35	0.0	1.9	0.0	0.0	28.0	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	126.37	-53.0	4.1	-19.8	-0.6	-0.35	0.0	3.8	0.0	0.0	30.4	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	126.08	-53.0	4.2	-21.0	-0.8	-0.21	0.0	2.6	0.0	0.0	28.1	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	35.68	-42.0	3.1	-0.2	-0.1		0.0	0.1	-36.5	0.0	59.0	
Tank Farm Pump 1	Leq,D	99.0	3	260.22	-59.3	5.1	-6.1	-1.5		0.0	1.1	0.0	0.0	38.3	
Tank Farm Pump 2	Leq,D	99.0	3	280.64	-60.0	5.2	-5.7	-1.7		0.0	1.1	0.0	0.0	37.9	
Tank Farm Pump 3	Leq,D	99.0	3	286.31	-60.1	5.2	-5.5	-1.7		0.0	1.0	0.0	0.0	37.9	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	50.34	-45.0	3.0	0.0	-0.7		0.0	0.1	-14.8	0.0	55.0	
XF-1502 Splitter Area 1	Leq,D	104.5		122.94	-52.8	3.0	-14.2	-0.4	0.00	-2.9	0.0	0.0	0.0	37.1	
XF-1502 Splitter Area 2	Leq,D	104.5		119.25	-52.5	3.0	-10.9	-0.5		-3.1	0.0	0.0	0.0	40.5	
XF-1504 Splitter Area 1	Leq,D	104.5		122.29	-52.7	3.0	-12.0	-0.5	-0.03	-3.0	0.0	0.0	0.0	39.2	
XF-1504 Splitter Area 2	Leq,D	104.5		118.58	-52.5	3.0	-12.0	-0.5		-3.1	0.0	0.0	0.0	39.6	
XF 304, XF 321	Leq,D	110.5	56	173.00	-55.8	3.0	-4.4	-0.5	-0.55	-2.4	0.7	0.0	0.0	50.7	
XF 313, XF 314	Leq,D	113.0	18	200.03	-57.0	3.0	-10.5	-0.6	-0.49	-3.3	1.9	0.0	0.0	46.0	
XF 335-1, XF 335-2	Leq,D	113.4	54	183.61	-56.3	3.0	-6.6	-0.7	-0.56	-2.5	0.6	0.0	0.0	50.3	
XF 503	Leq,D	113.0	21	120.19	-52.6	3.0	-2.0	-1.5	-0.74	-3.7	0.6	0.0	0.0	56.1	
XF - 1601	Leq,D	96.6		111.70	-52.0	3.0	-7.0	-0.2		-1.6	0.7	0.0	0.0	39.5	
XF - 1602	Leq,D	96.6		111.82	-52.0	3.0	-6.0	-0.2		-1.6	0.5	0.0	0.0	40.3	
XF Module 1510	Leq,D	108.3		116.63	-52.3	3.0	-16.0	-0.4	-0.09	-2.6	0.0	0.0	0.0	39.9	
XF Module 1519	Leq,D	109.0		121.85	-52.7	3.0	-15.5	-0.4	-0.20	-2.5	4.2	0.0	0.0	44.8	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								1.1			54.9	
Crude Operatoin Truck Truck Traffic	Leq,D		520								4.7			29.3	
Receiver S-9 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 77.0 dB(A)		Ld 7-19 dB(A)		Leq,N 75.7 dB(A)		Le 19-22 dB(A)		CNEL 82.6 dB(A)		Lmax day hr dB(A)		Ld 7-19
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	46.80	-44.4	3.1	-0.1	-0.8		0.0	0.2	-8.8	0.0	58.2	
Air Compressor C 1	Leq,D	110.0	5	114.65	-52.2	4.2	-15.0	-0.2	-0.63	0.0	2.4	0.0	0.0	48.5	
Air Compressor Pump	Leq,D	100.3		139.42	-53.9	4.1	-13.7	-0.8		0.0	5.6	0.0	0.0	41.7	
Blower F 401	Leq,D	113.0		19.96	-37.0	3.0	-6.0	0.0		0.0	0.0	0.0	0.0	73.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	321.19	-61.1	5.1	-11.0	-0.8		0.0	4.1	0.0	0.0	34.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	44.93	-44.0	3.0	-11.5	-0.2	-0.63	4.5	1.9	0.0	0.0	57.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	49.35	-44.9	3.0	-0.7	-0.5	-0.61	0.0	0.0	0.0	0.0	56.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	54.88	-45.8	3.0	-16.6	-0.1	-0.47	-7.8	1.6	0.0	0.0	40.4	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	45.87	-44.2	3.0	-11.3	-0.3	-0.23	0.9	0.0	0.0	0.0	58.6	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	47.06	-44.4	3.0	-9.9	-0.2	-0.64	-0.1	0.1	0.0	0.0	51.7	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	54.78	-45.8	3.0	-16.2	-0.1	-0.06	-7.0	8.1	0.0	0.0	42.4	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	243.21	-58.7	4.7	-7.4	-1.9	0.00	0.0	1.4	-7.0	0.0	44.1	
Construciton Control Room Max Day	Leq,D	123.7	5461	243.21	-58.7	4.7	-7.4	-1.9	0.00	0.0	1.4	-1.0	0.0	60.8	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	573.95	-66.2	5.5	-14.8	-2.4		0.0	1.6	-1.0	0.0	46.4	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	581.39	-66.3	5.5	-18.3	-2.1	-0.35	0.0	2.9	-1.0	0.0	44.1	
Construction H2 Plant Max Day	Leq,D	123.7	9281	141.60	-54.0	3.7	-9.3	-1.0	-0.32	0.0	1.0	-1.0	0.0	62.8	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	141.60	-54.0	3.7	-9.3	-1.0	-0.32	0.0	1.0	-7.0	0.0	46.1	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	359.48	-62.1	5.1	-6.3	-2.6		0.0	0.6	-1.0	0.0	57.5	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	359.48	-62.1	5.1	-6.3	-2.6		0.0	0.6	-7.0	0.0	40.7	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	101.66	-51.1	3.2	-8.0	-1.0	-0.06	0.0	1.7	-1.0	0.0	67.3	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	232.93	-58.3	4.5	-2.1	-2.2		0.0	0.7	-7.0	0.0	48.5	
Construction Unit B Max Day	Leq,D	123.7	20817	232.93	-58.3	4.5	-2.1	-2.2		0.0	0.7	-1.0	0.0	65.2	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	79.18	-49.0	3.1	-13.3	-0.3	-0.61	-7.8	15.9	0.0	0.0	45.9	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	69.53	-47.8	3.0	-7.0	-0.2	-0.71	2.3	0.6	0.0	0.0	48.0	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	99.59	-51.0	3.0	-17.5	-0.3	-0.52	-7.8	0.2	0.0	0.0	26.7	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	84.03	-49.5	3.0	-1.3	-0.6	-0.57	1.5	0.3	0.0	0.0	53.5	
Cooling Tower M 512	Leq,D	95.7		70.21	-47.9	3.0	-2.5	-0.4	-0.59	0.0	0.2	0.0	0.0	47.6	
Cooling Tower M 513	Leq,D	95.7		68.97	-47.8	3.0	-2.5	-0.4	-0.60	0.0	0.3	0.0	0.0	47.8	
Cooling Tower M 514	Leq,D	95.7		71.37	-48.1	3.0	0.0	-0.4	-0.57	0.0	0.1	0.0	0.0	49.8	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Heater # 5-Heater	Leq,D	91.1	13	322.37	-61.2	5.2	-19.0	-0.7		0.0	0.9	0.0	0.0	19.3
Heater # 5-Heater	Leq,D	91.1	13	317.91	-61.0	5.1	-18.7	-0.7		0.0	0.3	0.0	0.0	19.2
Heater # 5-Heater	Leq,D	91.1	13	313.36	-60.9	5.1	-17.9	-0.7		0.0	0.3	0.0	0.0	20.0
Hydro Heater H-402	Leq,D	98.1		50.59	-45.1	3.0	0.0	-0.4	-0.93	0.0	0.0	0.0	0.0	54.7
Motor & Pump P 56A/B	Leq,D	93.7		60.63	-46.6	3.0	0.0	-0.7	-1.09	0.0	0.1	0.0	0.0	48.4
Motor & Pump P 120/121	Leq,D	96.2	2	101.84	-51.2	3.7	-20.9	-0.4	-1.10	0.0	4.0	0.0	0.0	30.3
Motor & Pump P 211/212	Leq,D	93.7		31.43	-40.9	3.0	-5.9	-0.2	-0.56	0.0	0.5	0.0	0.0	49.5
Motor & Pump P 215/214	Leq,D	94.6		36.48	-42.2	3.0	0.0	-0.4	-0.58	0.0	0.2	0.0	0.0	54.6
Motor & Pump P 216	Leq,D	98.3		31.94	-41.1	3.0	0.0	-0.4	-0.47	0.0	0.1	0.0	0.0	59.5
Motor & Pump P 217/218	Leq,D	93.7		33.32	-41.4	3.0	-4.1	-0.3	-0.61	0.0	0.4	0.0	0.0	50.5
Motor & Pump P 300	Leq,D	97.1	2	103.70	-51.3	3.8	-1.1	-0.7	-1.01	0.0	0.0	0.0	0.0	46.8
Motor & Pump P 301	Leq,D	102.1	2	102.00	-51.2	3.8	-1.1	-0.7	-1.01	0.0	0.0	0.0	0.0	52.0
Motor & Pump P 302	Leq,D	97.1	2	105.50	-51.5	3.9	-1.1	-0.7	-1.01	0.0	0.0	0.0	0.0	46.7
Motor & Pump P 303	Leq,D	97.1	2	107.00	-51.6	3.8	-0.9	-0.7	-1.01	0.0	0.0	0.0	0.0	46.7
Motor & Pump P 305	Leq,D	97.5	2	108.50	-51.7	3.8	-1.0	-0.7	-1.01	0.0	0.0	0.0	0.0	46.9
Motor & Pump P 306	Leq,D	112.6	4	117.64	-52.4	3.7	-1.9	-1.5	-1.06	0.0	0.9	0.0	0.0	60.3
Motor & Pump P 307	Leq,D	102.1	2	97.10	-50.7	3.7	-1.1	-0.6	-1.01	0.0	0.0	0.0	0.0	52.3
Motor & Pump P 309	Leq,D	97.5	2	110.00	-51.8	3.8	-1.0	-0.7	-1.02	0.0	0.0	0.0	0.0	46.8
Motor & Pump P 312	Leq,D	101.5	2	75.02	-48.5	3.3	-1.5	-0.5	-1.01	0.0	0.0	0.0	0.0	53.3
Motor & Pump P 313	Leq,D	101.5	2	73.23	-48.3	3.3	-1.5	-0.5	-1.01	0.0	0.0	0.0	0.0	53.5
Motor & Pump P 315	Leq,D	102.9	2	66.74	-47.5	3.0	-0.8	-0.4	-1.01	0.0	0.0	0.0	0.0	56.1
Motor & Pump P 316	Leq,D	102.9	2	64.74	-47.2	3.0	-0.8	-0.4	-1.01	0.0	0.0	0.0	0.0	56.4
Motor & Pump P 317	Leq,D	102.9	2	62.74	-46.9	3.0	-0.6	-0.4	-1.01	0.0	0.0	0.0	0.0	57.0
Motor & Pump P 318	Leq,D	100.2	1	68.72	-47.7	3.3	-1.9	-0.5	-1.01	0.0	0.0	0.0	0.0	52.3
Motor & Pump P 319	Leq,D	100.2	1	70.22	-47.9	3.4	-1.9	-0.5	-1.01	0.0	0.0	0.0	0.0	52.2
Motor & Pump P 327	Leq,D	111.2	3	125.64	-53.0	4.1	-14.1	-0.6	-1.07	0.0	1.0	0.0	0.0	47.6
Motor & Pump P 328	Leq,D	109.9	5	111.80	-52.0	3.5	-1.5	-0.7	-1.02	0.0	0.3	0.0	0.0	58.6
Motor & Pump P 329	Leq,D	110.2	5	114.69	-52.2	3.6	-1.4	-0.6	-1.01	0.0	0.6	0.0	0.0	59.1
Motor & Pump P 451	Leq,D	93.7		46.02	-44.3	3.0	-8.3	-0.3	-0.75	0.0	0.3	0.0	0.0	43.4
Motor & Pump P 453	Leq,D	93.7		40.67	-43.2	3.0	0.0	-0.5	-0.53	0.0	0.0	0.0	0.0	52.5
Motor & Pump P 454	Leq,D	93.7		45.34	-44.1	3.0	-7.7	-0.3	-0.78	0.0	0.2	0.0	0.0	44.0
Motor & Pump P 457	Leq,D	93.7		39.86	-43.0	3.0	-3.5	-0.4	-0.53	0.0	0.0	0.0	0.0	49.3
Motor & Pump P 458	Leq,D	93.7		46.81	-44.4	3.0	-8.2	-0.3	-0.74	0.0	0.0	0.0	0.0	43.1
Motor & Pump P 459	Leq,D	93.7		46.10	-44.3	3.0	-7.0	-0.3	-0.79	0.0	0.2	0.0	0.0	44.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		77.44	-48.8	3.0	0.0	-0.8	-0.84	0.0	2.2	0.0	0.0	50.9
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		78.82	-48.9	3.0	0.0	-0.8	-0.86	0.0	0.6	0.0	0.0	49.2
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		111.98	-52.0	3.9	-11.1	-0.6	-1.37	0.0	2.1	0.0	0.0	36.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		113.00	-52.1	3.9	-11.1	-0.6	-1.38	0.0	1.6	0.0	0.0	35.8
Motor & Pump P 1601 A	Leq,D	96.3	2	97.25	-50.8	3.0	-14.5	-0.5	-0.66	0.0	0.3	0.0	0.0	33.2
Motor & Pump P 1601 B	Leq,D	96.3	2	98.44	-50.9	3.0	-14.7	-0.5	-0.65	0.0	2.1	0.0	0.0	34.7
Motor & Pump P 1602 A	Leq,D	96.3	2	99.21	-50.9	3.0	-14.8	-0.5	-0.64	0.0	1.1	0.0	0.0	33.5
Motor & Pump P 1602 B	Leq,D	96.5	2	100.37	-51.0	3.0	-14.4	-0.5	-0.60	0.0	0.5	0.0	0.0	33.4
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	83.72	-49.4	3.2	-6.9	-0.5	-0.88	0.0	0.3	0.0	0.0	42.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	87.42	-49.8	3.3	-7.5	-0.6	-0.32	0.0	0.5	0.0	0.0	42.2
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	89.34	-50.0	3.4	-6.9	-0.7	-0.43	0.0	0.1	0.0	0.0	42.0
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	80.34	-49.1	3.0	0.0	-0.9	-0.87	0.0	0.3	0.0	0.0	49.2
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	81.82	-49.2	3.0	0.0	-0.9	-0.89	0.0	0.2	0.0	0.0	48.9
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	97.60	-50.8	3.7	-7.8	-0.6	-0.35	0.0	0.6	0.0	0.0	41.0
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	96.17	-50.7	3.6	-5.7	-0.8	-0.34	0.0	0.1	0.0	0.0	42.5
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	93.67	-50.4	3.5	-0.8	-1.0	-1.05	0.0	0.1	0.0	0.0	46.7
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	94.74	-50.5	3.6	-4.7	-0.7	-1.13	0.0	0.3	0.0	0.0	43.0
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	35.60	-42.0	3.0	-0.4	-0.1		0.0	0.1	-36.5	0.0	58.9
Tank Farm Pump 1	Leq,D	99.0	3	325.10	-61.2	5.3	-14.7	-1.2		0.0	5.0	0.0	0.0	32.2
Tank Farm Pump 2	Leq,D	99.0	3	346.46	-61.8	5.4	-14.8	-1.3		0.0	5.1	0.0	0.0	31.6
Tank Farm Pump 3	Leq,D	99.0	3	352.41	-61.9	5.4	-14.8	-1.3		0.0	5.0	0.0	0.0	31.3
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	49.45	-44.9	3.0	0.0	-0.7		0.0	0.2	-14.8	0.0	55.2
XF-1502 Splitter Area 1	Leq,D	104.5		92.39	-50.3	3.0	-6.6	-0.5	-0.09	-3.8	0.6	0.0	0.0	46.9
XF-1502 Splitter Area 2	Leq,D	104.5		89.49	-50.0	3.0	-10.2	-0.4	-0.08	-3.3	0.7	0.0	0.0	44.2
XF-1504 Splitter Area 1	Leq,D	104.5		95.18	-50.6	3.0	-3.4	-0.6	-1.09	-3.9	0.2	0.0	0.0	48.2
XF-1504 Splitter Area 2	Leq,D	104.5		92.36	-50.3	3.0	-3.8	-0.5	-0.96	-3.9	0.4	0.0	0.0	48.5
XF 304, XF 321	Leq,D	110.5	56	101.51	-51.1	3.0	-0.2	-0.5	-1.49	-2.8	0.2	0.0	0.0	57.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 313, XF 314	Leq,D	113.0	18	132.02	-53.4	3.0	-1.6	-0.7	-1.86	-4.0	0.0	0.0	0.0	54.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	113.71	-52.1	3.0	-5.3	-0.4	-1.59	-2.6	0.5	0.0	0.0	54.9	
XF 503	Leq,D	113.0	21	51.12	-45.2	3.0	0.0	-1.0	-0.91	-3.6	0.1	0.0	0.0	65.5	
XF - 1601	Leq,D	96.6		99.08	-50.9	3.0	-3.0	-0.3	-0.58	-2.1	0.2	0.0	0.0	43.0	
XF - 1602	Leq,D	96.6		103.72	-51.3	3.0	0.0	-0.4	-0.62	-2.5	0.1	0.0	0.0	44.9	
XF Module 1510	Leq,D	108.3		82.81	-49.4	3.0	-7.2	-0.4	-0.11	-3.7	0.5	0.0	0.0	51.0	
XF Module 1519	Leq,D	109.0		87.06	-49.8	3.0	0.0	-0.7	-0.91	-4.2	0.1	0.0	0.0	56.6	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								11.2			46.0	
Crude Operatoin Truck Truck Traffic	Leq,D		520								16.9			24.6	
Receiver S-10 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 74.7 dB(A)		Ld 7-19	dB(A)	Leq,N 68.7 dB(A)		Le 19-22	dB(A)	CNEL 76.9 dB(A)		Lmax day hr	dB(A)	Ld 7-1
2011 Track Mobile switch moving rail cars 33 cars per day	Leq,D	109.0	3558	57.66	-46.2	3.1	-0.1	-0.8		0.0	0.8	-8.8	0.0	57.1	
Air Compressor C 1	Leq,D	110.0	5	107.97	-51.7	4.1	-14.6	-0.2	-0.51	0.0	5.7	0.0	0.0	52.7	
Air Compressor Pump	Leq,D	100.3		227.50	-58.1	4.8	-4.5	-1.9	-0.86	0.0	0.1	0.0	0.0	39.8	
Blower F 401	Leq,D	113.0		107.58	-51.6	3.1	-3.7	-0.2	-0.70	0.0	0.1	0.0	0.0	60.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	412.41	-63.3	5.3	-11.2	-1.0		0.0	2.1	0.0	0.0	30.5	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	67.79	-47.6	3.0	-19.1	-0.2		-7.8	0.5	0.0	0.0	33.6	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	71.64	-48.1	3.0	-17.6	-0.3		0.0	0.4	0.0	0.0	38.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	58.69	-46.4	3.0	-5.9	-0.2		-0.7	0.7	0.0	0.0	57.0	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	57.48	-46.2	3.0	-17.9	-0.1		-2.6	0.4	0.0	0.0	47.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	69.64	-47.8	3.0	-18.0	-0.2		-0.6	0.2	0.0	0.0	40.3	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	48.23	-44.7	3.0	-6.1	-0.4		-0.6	1.1	0.0	0.0	52.7	
Construciton Control Room Max Evening Night	Leq,D	113.0	5461	324.93	-61.2	5.0	-7.1	-2.0	-0.73	0.0	1.1	-7.0	0.0	41.1	
Construciton Control Room Max Day	Leq,D	123.7	5461	324.93	-61.2	5.0	-7.1	-2.0	-0.73	0.0	1.1	-1.0	0.0	57.8	
Construction Demolition Warehouse Max Day	Leq,D	123.7	4384	656.85	-67.3	5.5	-12.9	-3.1	-0.74	0.0	0.1	-1.0	0.0	44.3	
Construction Demoltion Loading Racks Max Day	Leq,D	123.7	6296	646.52	-67.2	5.5	-12.7	-2.5	-0.35	0.0	0.6	-1.0	0.0	46.1	
Construction H2 Plant Max Day	Leq,D	123.7	9281	216.90	-57.7	4.5	-6.3	-1.8	-0.58	0.0	0.3	-1.0	0.0	61.2	
Construction H2 Plant Max Evening Night	Leq,D	113.0	9281	216.90	-57.7	4.5	-6.3	-1.8	-0.58	0.0	0.3	-7.0	0.0	44.5	
Construction PreTreat Building Max Day	Leq,D	123.7	6360	440.96	-63.9	5.3	-6.5	-2.4	-0.72	0.0	0.9	-1.0	0.0	55.4	
Construction PreTreat Building Max Evening Night	Leq,D	113.0	6360	440.96	-63.9	5.3	-6.5	-2.4	-0.72	0.0	0.9	-7.0	0.0	38.7	
Construction Unit A Construction Max Day	Leq,D	123.7	3185	46.45	-44.3	3.0	-9.0	-0.5		0.0	0.5	-1.0	0.0	72.5	
Construction Unit B 2 Max Evening Night	Leq,D	113.0	20817	330.58	-61.4	5.0	-5.3	-2.6	-0.48	0.0	0.9	-7.0	0.0	42.1	
Construction Unit B Max Day	Leq,D	123.7	20817	330.58	-61.4	5.0	-5.3	-2.6	-0.48	0.0	0.9	-1.0	0.0	58.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	140.75	-54.0	3.6	-18.2	-0.4	-0.70	-7.8	9.7	0.0	0.0	30.0	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	128.34	-53.2	3.5	-10.6	-0.3	-0.71	-0.7	2.5	0.0	0.0	38.3	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	165.51	-55.4	3.4	-18.7	-0.5	-0.70	-7.8	0.1	0.0	0.0	21.1	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	147.52	-54.4	3.5	-10.5	-0.5	-0.70	-0.7	0.6	0.0	0.0	38.0	
Cooling Tower M 512	Leq,D	95.7		134.67	-53.6	4.0	-16.3	-0.5		0.0	1.6	0.0	0.0	31.0	
Cooling Tower M 513	Leq,D	95.7		133.24	-53.5	3.9	-16.3	-0.5		0.0	1.7	0.0	0.0	31.0	
Cooling Tower M 514	Leq,D	95.7		136.19	-53.7	4.0	-16.2	-0.5		0.0	2.3	0.0	0.0	31.6	
Heater # 5-Heater	Leq,D	91.1	13	413.50	-63.3	5.3	-19.2	-0.9	-0.05	0.0	0.5	0.0	0.0	16.4	
Heater # 5-Heater	Leq,D	91.1	13	409.09	-63.2	5.3	-19.2	-0.9		0.0	0.2	0.0	0.0	16.4	
Heater # 5-Heater	Leq,D	91.1	13	404.58	-63.1	5.3	-18.1	-0.9		0.0	0.1	0.0	0.0	17.4	
Hydro Heater H-402	Leq,D	98.1		107.75	-51.6	3.5	-11.2	-0.2	-0.79	0.0	0.7	0.0	0.0	38.5	
Motor & Pump P 56A/B	Leq,D	93.7		99.56	-51.0	3.3	0.0	-1.0	-0.54	0.0	0.5	0.0	0.0	45.0	
Motor & Pump P 120/121	Leq,D	96.2	2	101.08	-51.1	3.7	-14.0	-0.3	-0.48	0.0	0.1	0.0	0.0	34.0	
Motor & Pump P 211/212	Leq,D	93.7		81.88	-49.3	3.1	-2.8	-0.7	-0.25	0.0	1.2	0.0	0.0	44.9	
Motor & Pump P 215/214	Leq,D	94.6		80.57	-49.1	3.1	-8.3	-0.5	-0.14	0.0	1.2	0.0	0.0	40.9	
Motor & Pump P 216	Leq,D	98.3		75.32	-48.5	3.0	-2.3	-0.7	-0.11	0.0	1.2	0.0	0.0	50.9	
Motor & Pump P 217/218	Leq,D	93.7		81.25	-49.2	3.8	-3.8	-0.6	-0.25	0.0	1.0	0.0	0.0	44.7	
Motor & Pump P 300	Leq,D	97.1	2	92.42	-50.3	3.5	-15.7	-0.3	-0.51	0.0	4.7	0.0	0.0	38.5	
Motor & Pump P 301	Leq,D	102.1	2	91.43	-50.2	3.5	-15.3	-0.3	-0.51	0.0	4.3	0.0	0.0	43.6	
Motor & Pump P 302	Leq,D	97.1	2	93.51	-50.4	3.6	-16.3	-0.3	-0.52	0.0	5.3	0.0	0.0	38.5	
Motor & Pump P 303	Leq,D	97.1	2	94.34	-50.5	3.5	-13.9	-0.3	-0.53	0.0	2.8	0.0	0.0	38.2	
Motor & Pump P 305	Leq,D	97.5	2	95.28	-50.6	3.5	-12.1	-0.3	-0.53	0.0	0.9	0.0	0.0	38.5	
Motor & Pump P 306	Leq,D	112.6	4	101.33	-51.1	3.3	-18.4	-0.5	-0.24	0.0	8.2	0.0	0.0	53.9	
Motor & Pump P 307	Leq,D	102.1	2	88.66	-49.9	3.4	-10.6	-0.3	-0.49	0.0	0.4	0.0	0.0	44.6	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 2

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 309	Leq,D	97.5	2	96.22	-50.7	3.5	-12.2	-0.3	-0.54	0.0	0.8	0.0	0.0	38.2	
Motor & Pump P 312	Leq,D	101.5	2	78.89	-48.9	3.5	-7.8	-0.4	-0.43	0.0	0.3	0.0	0.0	47.7	
Motor & Pump P 313	Leq,D	101.5	2	78.31	-48.9	3.4	-4.3	-0.3	-0.43	0.0	0.1	0.0	0.0	51.1	
Motor & Pump P 315	Leq,D	102.9	2	76.28	-48.6	3.0	0.0	-0.4	-0.39	0.0	0.0	0.0	0.0	56.5	
Motor & Pump P 316	Leq,D	102.9	2	75.84	-48.6	3.0	0.0	-0.4	-0.24	0.0	0.0	0.0	0.0	56.6	
Motor & Pump P 317	Leq,D	102.9	2	75.54	-48.6	3.0	0.0	-0.4	-0.05	0.0	0.0	0.0	0.0	56.9	
Motor & Pump P 318	Leq,D	100.2	1	77.27	-48.8	3.6	0.0	-0.4	-0.41	0.0	0.0	0.0	0.0	54.2	
Motor & Pump P 319	Leq,D	100.2	1	77.67	-48.8	3.6	-1.1	-0.5	-0.40	0.0	0.1	0.0	0.0	53.1	
Motor & Pump P 327	Leq,D	111.2	3	106.46	-51.5	3.8	-16.4	-0.5	-0.57	0.0	7.7	0.0	0.0	53.7	
Motor & Pump P 328	Leq,D	109.9	5	97.48	-50.8	3.2	-12.9	-0.3	-0.49	0.0	3.6	0.0	0.0	52.2	
Motor & Pump P 329	Leq,D	110.2	5	99.38	-50.9	3.2	-17.6	-0.4	-0.19	0.0	8.3	0.0	0.0	52.6	
Motor & Pump P 451	Leq,D	93.7		109.65	-51.8	3.6	-11.5	-0.5	-0.72	0.0	2.7	0.0	0.0	35.3	
Motor & Pump P 453	Leq,D	93.7		114.63	-52.2	3.7	-13.2	-0.6	-0.84	0.0	0.3	0.0	0.0	30.8	
Motor & Pump P 454	Leq,D	93.7		108.12	-51.7	3.5	-11.7	-0.5	-0.72	0.0	2.7	0.0	0.0	35.2	
Motor & Pump P 457	Leq,D	93.7		115.00	-52.2	3.7	-8.2	-0.7	-0.84	0.0	1.3	0.0	0.0	36.8	
Motor & Pump P 458	Leq,D	93.7		110.79	-51.9	3.6	-11.6	-0.6	-0.72	0.0	2.7	0.0	0.0	35.2	
Motor & Pump P 459	Leq,D	93.7		107.99	-51.7	3.6	-12.4	-0.5	-0.72	0.0	3.1	0.0	0.0	35.0	
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		123.65	-52.8	4.0	-10.1	-0.6	-0.22	0.0	0.0	0.0	0.0	36.5	
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		123.85	-52.8	4.0	-5.8	-0.9	-0.21	0.0	0.3	0.0	0.0	40.8	
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		140.69	-54.0	4.3	-8.8	-0.9	-0.77	0.0	0.0	0.0	0.0	35.4	
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		141.10	-54.0	4.3	-10.5	-0.8	-0.78	0.0	0.1	0.0	0.0	33.9	
Motor & Pump P 1601 A	Leq,D	96.3	2	151.87	-54.6	4.0	-8.9	-0.8	-0.05	0.0	0.1	0.0	0.0	36.0	
Motor & Pump P 1601 B	Leq,D	96.3	2	153.41	-54.7	4.0	-8.4	-0.9		0.0	0.1	0.0	0.0	36.4	
Motor & Pump P 1602 A	Leq,D	96.3	2	154.55	-54.8	4.0	-7.3	-1.0		0.0	0.0	0.0	0.0	37.3	
Motor & Pump P 1602 B	Leq,D	96.5	2	156.05	-54.9	4.0	-6.8	-1.1		0.0	0.0	0.0	0.0	37.9	
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	132.97	-53.5	4.3	-6.6	-0.7	-0.34	0.0	0.9	0.0	0.0	40.7	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	133.52	-53.5	4.2	-2.5	-1.0	-0.33	0.0	0.1	0.0	0.0	43.6	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	133.89	-53.5	4.3	0.0	-1.3	-0.32	0.0	0.1	0.0	0.0	45.8	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	124.60	-52.9	4.1	-2.9	-0.9	-0.21	0.0	0.1	0.0	0.0	43.9	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	124.85	-52.9	4.0	-0.4	-1.2	-0.21	0.0	0.0	0.0	0.0	46.1	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	141.50	-54.0	4.4	0.0	-1.4	-0.57	0.0	0.1	0.0	0.0	44.9	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	139.24	-53.9	4.4	0.0	-1.4	-0.55	0.0	0.3	0.0	0.0	45.2	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	135.28	-53.6	4.3	0.0	-1.3	-0.50	0.0	0.8	0.0	0.0	46.0	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	137.03	-53.7	4.3	0.0	-1.3	-0.52	0.0	0.8	0.0	0.0	45.8	
Rail Cars Bumping 6 times in during delivery	Leq,D	134.7	362	37.62	-42.5	3.1	-0.2	-0.1		0.0	0.7	-36.5	0.0	59.2	
Tank Farm Pump 1	Leq,D	99.0	3	400.48	-63.0	5.4	-11.5	-1.7	-0.71	0.0	3.4	0.0	0.0	30.8	
Tank Farm Pump 2	Leq,D	99.0	3	421.95	-63.5	5.5	-11.1	-1.8	-0.72	0.0	2.6	0.0	0.0	29.9	
Tank Farm Pump 3	Leq,D	99.0	3	427.95	-63.6	5.5	-11.0	-1.9	-0.72	0.0	2.9	0.0	0.0	30.2	
UP Train Locomotive Delivery and Pickup	Leq,D	112.4	1388	47.98	-44.6	3.0	0.0	-0.7		0.0	0.8	-14.8	0.0	56.1	
XF-1502 Splitter Area 1	Leq,D	104.5		136.68	-53.7	3.0	0.0	-1.0	-0.37	-4.2	0.2	0.0	0.0	48.4	
XF-1502 Splitter Area 2	Leq,D	104.5		136.08	-53.7	3.0	0.0	-1.0	-0.35	-4.3	0.2	0.0	0.0	48.3	
XF-1504 Splitter Area 1	Leq,D	104.5		141.01	-54.0	3.0	0.0	-1.1	-0.46	-4.2	0.1	0.0	0.0	47.9	
XF-1504 Splitter Area 2	Leq,D	104.5		140.44	-53.9	3.0	0.0	-1.1	-0.45	-4.3	0.2	0.0	0.0	47.9	
XF 304, XF 321	Leq,D	110.5	56	86.30	-49.7	3.0	-7.8	-0.2	-0.36	-1.9	0.7	0.0	0.0	54.3	
XF 313, XF 314	Leq,D	113.0	18	107.31	-51.6	3.0	-12.9	-0.3	-0.31	-2.8	1.6	0.0	0.0	49.7	
XF 335-1, XF 335-2	Leq,D	113.4	54	94.35	-50.5	3.0	-13.8	-0.2	-0.24	-1.9	1.6	0.0	0.0	51.4	
XF 503	Leq,D	113.0	21	86.62	-49.7	3.0	-6.0	-0.7	-0.30	-3.4	0.4	0.0	0.0	56.2	
XF - 1601	Leq,D	96.6		154.53	-54.8	3.0	-3.5	-0.4		-2.0	0.0	0.0	0.0	38.9	
XF - 1602	Leq,D	96.6		160.42	-55.1	3.0	0.0	-0.6	-0.39	-2.5	0.0	0.0	0.0	41.1	
XF Module 1510	Leq,D	108.3		129.76	-53.3	3.0	0.0	-1.0	-0.25	-4.3	0.2	0.0	0.0	52.7	
XF Module 1519	Leq,D	109.0		130.52	-53.3	3.0	0.0	-1.0	-0.25	-4.2	0.2	0.0	0.0	53.4	
Construction / Renewable Fuels Truck Tr	Leq,D		1368								2.8			44.2	
Crude Operatoin Truck Truck Traffic	Leq,D		520								10.9			20.9	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
XF 313, XF 314	3211	3688	31.5	113.0	57.9	80.5	99.8	101.7	107.6	109.0	104.8	98.6	87.1	74.3
XF 335-1, XF 335-2	3211	3670	33.5	113.4	73.7	91.5	102.0	104.4	107.3	104.8	108.4	102.8	93.6	82.1
XF 304, XF 321	3211	3658	33.5	110.5	72.5	90.1	100.7	102.9	106.0	103.0	99.7	99.7	89.9	78.4
XF 503	3229	3607	30.8	113.0	73.5	82.0	95.2	102.2	107.4	105.2	99.6	109.0	97.1	73.2
2022 Track Mobile moving rail cars 2 x 25 cars day time	3291	3503	25.4	109.0	84.4	95.5	92.6	91.2	96.6	101.7	102.9	102.8	100.6	95.1
E 321 Fin Fan Hydrogen Plant - Low Noise	3430	3588	31.0	95.8	57.8	75.4	86.0	88.2	91.3	88.3	85.0	85.0	75.2	63.7
XF 260, 261A, 261 B	3386	3492	31.7	99.9	61.8	79.5	90.1	92.2	95.4	92.4	89.1	89.1	79.2	67.8
XF 251, 250, 271, 270	3439	3492	31.9	101.1	63.1	80.7	91.3	93.5	96.6	93.6	90.3	90.3	80.5	69.0
XF 353A/B	3503	3481	32.1	95.4	57.4	75.1	85.7	87.8	91.0	88.0	84.7	84.7	74.8	63.4
XF 353A/B	3515	3460	32.0	95.4	57.4	75.0	85.7	87.8	90.9	88.0	84.7	84.6	74.8	63.4
XF 354A/B	3486	3437	31.9	95.4	57.4	75.0	85.7	87.8	90.9	88.0	84.7	84.6	74.8	63.4
Cooling Tower CT 511-CT 511 East Side	3308	3603	27.9	97.6	55.2	70.3	84.1	89.1	91.1	91.5	90.1	89.0	82.3	
Cooling Tower CT 511-CT 511 West Side	3290	3603	27.9	97.7	55.2	70.4	84.1	89.2	91.2	91.5	90.2	89.0	82.4	
Cooling Tower CT 510-CT 510 East Side	3284	3604	26.8	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 510-CT 510 West Side	3271	3604	26.8	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Boiler Crude Unit-Heater Opening	3505	3408	25.3	95.6	62.0	72.8	81.2	88.7	89.3	90.1	87.7	83.1	75.8	61.7
Heater # 5-Heater	3498	3411	25.2	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3503	3411	25.2	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3508	3411	25.2	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Compressor House C301, C302, C 124-Comp House North	3203	3609	26.8	103.5	60.1	72.0	91.9	96.3	97.4	95.9	97.2	91.4	87.1	
Compressor House C301, C302, C 124-Comp House West	3191	3603	26.8	97.4	55.0	70.2	83.9	88.9	90.9	91.3	89.9	88.8	82.1	
Compressor House C301, C302, C 124-Comp House South 1	3201	3598	26.8	107.7	64.3	76.1	96.1	100.4	101.6	100.0	101.4	95.6	91.2	
Compressor House C301, C302, C 124-Comp House East 1	3210	3601	26.8	101.8	58.4	70.2	90.2	94.5	95.7	94.1	95.5	89.7	85.3	
Compressor House C301, C302, C 124-Comp House South 2	3212	3603	26.8	100.8	57.4	69.2	89.2	93.5	94.7	93.1	94.5	88.7	84.3	
Compressor House C301, C302, C 124-Comp House East 2	3214	3606	26.8	100.5	67.7	73.9	82.0	93.5	93.9	94.1	91.3	94.1	78.0	
Reformer-Burner Reformer South	3413	3621	34.5	95.8		63.8	69.8	77.2	91.0	90.3	88.0	87.7	83.5	
Reformer-Burner Reformer East	3403	3628	34.4	97.3		65.3	71.2	78.6	92.5	91.8	89.4	89.2	84.9	
Reformer-Burner Reformer North	3394	3621	34.5	95.9		63.8	69.8	77.2	91.0	90.3	88.0	87.8	83.5	
Reformer-Burner Reformer West	3403	3614	34.5	97.3		65.3	71.2	78.6	92.4	91.8	89.4	89.2	84.9	
Steam Turbine-Roof 01	3340	3606	27.5	99.7	59.9	67.1	77.9	84.4	87.9	90.1	91.4	97.4	86.3	71.7
Steam Turbine-Facade 01	3340	3604	25.7	99.6	59.8	66.9	77.7	84.3	87.8	90.0	91.3	97.3	86.2	71.6
Steam Turbine-Facade 02	3344	3606	25.7	96.2	56.5	63.6	74.4	80.9	84.4	86.6	88.0	94.0	82.8	68.2
Steam Turbine-Facade 03	3340	3608	25.7	99.6	59.8	66.9	77.7	84.3	87.8	90.0	91.3	97.3	86.2	71.6
Steam Turbine-Facade 04	3336	3606	25.7	96.2	56.5	63.6	74.4	80.9	84.4	86.6	88.0	94.0	82.8	68.2
Pre-Treat Train-Roof 01	3622	3552	38.5	113.1	61.3	77.1	90.3	100.7	106.9	109.6	105.7	101.0	91.8	81.5
Pre-Treat Train-Pre-Treat Outside Area S	3624	3532	31.5	108.1	56.3	72.1	85.4	95.8	101.9	104.6	100.7	96.0	86.8	76.6
Pre-Treat Train-Pre-Treat Outside Area E	3647	3552	31.5	107.5	55.7	71.5	84.8	95.2	101.3	104.0	100.1	95.4	86.2	76.0
Pre-Treat Train-Pre-Treat Outside Area N	3624	3572	31.5	108.1	56.3	72.1	85.4	95.8	101.9	104.6	100.7	96.0	86.8	76.6
Pre-Treat Train-Pre-Treat Outside Area W1	3601	3568	31.5	100.7	48.9	64.7	78.0	88.4	94.5	97.2	93.3	88.6	79.4	69.2
Pre-Treat Train-Pre-Treat Outside Area N2	3596	3564	31.5	101.1	49.2	65.1	78.3	88.7	94.9	97.6	93.7	88.9	79.7	69.5
Pre-Treat Train-Pre-Treat Outside Area W2	3592	3555	31.5	103.7	51.9	67.7	81.0	91.3	97.5	100.2	96.3	91.6	82.4	72.1
Pre-Treat Train-Pre-Treat Outside Area S2	3596	3547	31.5	101.0	49.2	65.0	78.2	88.6	94.8	97.5	93.6	88.9	79.7	69.4
Pre-Treat Train-Pre-Treat Outside Area W3	3601	3539	31.5	103.1	51.3	67.1	80.4	90.8	96.9	99.6	95.7	91.0	81.8	71.6
ID Fan-ID Fan Roof 01 (128293)	3437	3621	28.4	94.0		91.8	87.9	84.4	79.8	69.0	62.2	52.0	42.9	
ID Fan-ID Fan - South	3436	3620	26.9	92.3		90.1	86.2	82.7	78.1	67.3	60.5	50.3	41.2	
ID Fan-ID Fan - East (128302)	3437	3620	26.9	87.3		85.1	81.2	77.7	73.1	62.3	55.5	45.3	36.2	
ID Fan-ID Fan - South 2	3438	3620	26.9	91.4		89.2	85.3	81.8	77.2	66.4	59.6	49.4	40.3	
ID Fan-ID Fan - North 2	3438	3622	26.9	91.4		89.2	85.3	81.8	77.2	66.4	59.6	49.4	40.3	
ID Fan-ID Fan - East 1 (128306)	3437	3622	26.9	87.0		84.8	80.9	77.4	72.8	62.0	55.2	45.0	35.9	
ID Fan-ID Fan - North	3436	3623	26.9	92.2		90.0	86.1	82.6	78.0	67.2	60.4	50.2	41.1	
FD Fan Assembly-FD Fan - Roof	3423	3632	29.3	93.4	81.6	88.6	88.6	85.6	82.6	76.6	74.6	59.6	48.6	
FD Fan Assembly-FD Fan - West	3421	3632	27.3	95.3	83.5	90.5	90.5	87.5	84.5	78.5	76.5	61.5	50.5	
FD Fan Assembly-FD Fan - South	3423	3630	27.3	93.2	81.4	88.3	88.3	85.4	82.4	76.3	74.3	59.4	48.4	
FD Fan Assembly-FD Fan - East	3424	3632	27.3	95.4	83.6	90.5	90.5	87.5	84.5	78.5	76.5	61.5	50.5	
FD Fan Assembly-FD Fan - North	3423	3634	27.3	93.1	81.3	88.2	88.2	85.3	82.3	76.2	74.2	59.3	48.2	
Motor & Pump P 312	3217	3632	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 313	3217	3630	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 319	3218	3627	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 318	3218	3626	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 315	3217	3624	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 316	3217	3622	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 317	3217	3620	24.7	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 309	3217	3667	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 305	3217	3665	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 303	3217	3664	24.7	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 302	3217	3662	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 300	3217	3661	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 301	3217	3659	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 307	3217	3654	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 120/121	3229	3658	24.7	96.2	44.4	60.2	73.4	83.8	90.0	92.7	88.8	84.1	74.9	64.6
Air Compressor C 1	3229	3671	24.4	110.0	66.6	78.5	98.4	102.8	103.9	102.4	103.7	97.9	93.6	
Motor & Pump P 327	3217	3683	24.7	111.2	52.5	68.1	77.3	90.9	103.2	106.4	107.0	101.7	93.6	81.0
Motor & Pump P 306	3217	3675	25.1	112.6	52.9	82.5	86.6	105.4	106.6	101.6	107.3	99.9	103.9	82.3
Motor & Pump P 329	3217	3672	25.1	110.2	56.3	78.3	86.3	97.0	102.1	108.1	101.1	96.2	87.5	76.9
Motor & Pump P 328	3217	3669	25.1	109.9	58.1	73.9	87.2	97.6	103.7	106.4	102.5	97.8	88.6	78.4
Tank Farm Pump 1	3543	3594	25.3	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 2	3565	3594	25.2	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 3	3571	3594	25.2	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Motor & Pump P - 1507 Reactor Pump	3266	3623	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1508 Reactor Pump	3266	3625	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1502 Splitter Reflux Pu	3275	3620	24.6	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1503 Splitter Bottoms P	3275	3625	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1504 Splitter Bottoms P	3275	3628	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1511 Stabilizer Reflux	3282	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1512 Stabilizer Reflux	3279	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1513 Caustic Circulatin	3275	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1514 Caustic Circulatin	3277	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 A	3294	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 B	3296	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 A	3297	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 B	3298	3620	25.5	96.5	47.5	62.6	74.7	82.3	87.7	90.8	92.0	88.9	79.8	
UP Train Locomotive Delivery and Pickup 2022 2x	3068	3642	27.0	112.4	87.7	98.9	96.0	94.5	99.9	105.1	106.3	106.1	104.0	98.5
Cars Pumping 6 times in during delivery	3272	3512	25.0	134.7	119.5	120.0	105.7	128.2	122.6	132.4	121.7	117.1	108.1	92.6
Piping Furnace Tanks	3390	3611	31.0	87.1		40.7	63.7	61.7	67.7	75.7	73.7	84.7	81.7	
Feed Compressor-A Compressor	3386	3566	26.9	104.0	62.8	78.6	89.8	89.3	95.5	99.7	98.5	93.9	88.5	75.9
Feed Compressor-A Motor	3386	3561	27.4	103.8		67.1	75.1	82.1	97.1	96.1	99.1	97.1	91.1	
Feed Compressor-B Compressor	3400	3566	27.0	104.0	62.8	78.6	89.8	89.3	95.5	99.7	98.5	93.9	88.5	75.9
Feed Compressor -B Motor	3400	3560	27.4	103.8		67.1	75.1	82.1	97.1	96.1	99.1	97.1	91.1	
Boiler Feed Water Pump A	3439	3562	25.2	97.1	47.5	62.0	76.2	84.7	89.7	93.6	90.2	85.9	80.6	
Boiler Feed Water Pump B	3439	3558	25.2	97.1	47.5	62.0	76.2	84.7	89.7	93.6	90.2	85.9	80.6	
C370A	3358	3576	27.0	103.8	62.6	78.4	89.6	89.1	95.3	99.5	98.3	93.7	88.3	75.7
C370 A Motor	3358	3572	27.3	103.6	62.4	78.2	89.4	88.9	95.1	99.3	98.1	93.5	88.1	75.5
C370B	3368	3576	27.1	103.8	62.6	78.4	89.6	89.1	95.3	99.5	98.3	93.7	88.3	75.7
C370 B Motor	3368	3571	27.3	108.6	67.4	83.2	94.4	93.9	100.1	104.3	103.1	98.5	93.1	80.5
C-270 C	3465	3467	27.0	106.3	65.1	80.9	92.1	91.6	97.8	102.0	100.8	96.2	90.8	78.2
C-270 B	3470	3467	27.0	106.3	65.1	80.9	92.1	91.6	97.8	102.0	100.8	96.2	90.8	78.2
C-270 A	3475	3467	27.0	106.3	65.1	80.9	92.1	91.6	97.8	102.0	100.8	96.2	90.8	78.2
C-351 Compressor	3494	3473	27.0	106.8	65.6	81.4	92.6	92.1	98.3	102.5	101.3	96.7	91.3	78.7
C-351 Motor	3494	3469	28.0	106.8		70.1	78.1	85.1	100.1	99.1	102.1	100.1	94.1	
C-301 Compressor	3491	3491	27.0	106.8	65.6	81.4	92.6	92.1	98.3	102.5	101.3	96.7	91.3	78.7
C-301 Motor	3487	3491	27.0	106.8		70.1	78.1	85.1	100.1	99.1	102.1	100.1	94.1	
ID Fan Motor	3436	3624	26.9	104.4	55.3	70.5	82.6	90.1	95.5	98.7	99.9	96.7	87.6	
FD Motor	3425	3632	26.7	103.3		66.6	74.6	81.6	96.6	95.6	98.6	96.6	90.6	
Piping Hydrogen Tanks Compressor	3377	3594	29.8	98.4		52.0	75.0	73.0	79.0	87.0	85.0	96.0	93.0	
RFG A from battery to process	3383	3594	29.8	99.4		53.0	76.0	74.0	80.0	88.0	86.0	97.0	94.0	
Piping Hydrogen Tanks Compressor w NC	3348	3622	27.4	114.6	75.4	82.6	85.6	92.1	100.8	109.0	111.7	106.1	96.9	85.9
Piping Hydrogen Tanks Compressorw NC	3350	3621	27.5	115.2		68.8	91.8	89.8	95.8	103.8	101.8	112.8	109.8	
RFG A from battery to process w NC	3350	3624	27.5	115.2		68.8	91.8	89.8	95.8	103.8	101.8	112.8	109.8	
PSA Pipe 3" Lagging	3366	3622	35.4	80.6	41.5	48.6	51.6	58.1	66.8	75.0	77.7	72.1	62.9	51.9
PSA Skid Additional Piping w NC	3345	3622	27.4	116.6	77.5	84.6	87.6	94.2	102.8	111.0	113.7	108.1	98.9	87.9
Nitrogen Skid w Compressor 18-PK 1806	3254	3672	25.9	104.2	63.0	78.7	89.9	89.4	95.6	99.9	98.6	94.1	88.7	76.0
H2S Compressor 18-C-271	3230	3636	25.7	105.3	64.1	79.9	91.1	90.6	96.8	101.1	99.8	95.2	89.8	77.2
Cooling Tower M 513	3276	3598	25.4	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 512	3277	3598	25.2	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 514	3279	3598	25.3	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Hydro Heater H-402	3250	3598	24.9	98.1	57.2	68.0	79.4	94.1	91.1	89.8	87.7	88.6	82.9	73.3
Motor & Pump P 56A/B	3242	3613	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 459	3250	3592	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 454	3250	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 451	3251	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 458	3253	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 453	3254	3579	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 457	3254	3578	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 211/212	3223	3588	24.6	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 217/218	3223	3590	24.0	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 215/214	3222	3593	24.6	94.6	45.6	60.8	72.9	80.4	85.8	89.0	90.2	87.0	77.9	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 216	3216	3589	25.0	98.3	49.3	64.4	76.5	84.1	89.5	92.6	93.8	90.7	81.6	
XF Module 1519	3271	3627	32.7	109.0	77.1	84.1	89.4	95.1	98.8	105.0	104.2	99.4	91.1	76.8
XF Module 1510	3271	3622	32.7	108.3	76.4	83.4	88.7	94.4	98.1	104.3	103.5	98.7	90.4	76.1
XF-1502 Splitter Area 1	3277	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1502 Splitter Area 2	3277	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 1	3282	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 2	3282	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF - 1601	3296	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF - 1602	3302	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
Motor & Pump P 1505 FRESH FEED PUMPS	3266	3620	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1506 FRESH FEED PUMPS	3266	3621	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1509 Chloride Injection P	3275	3655	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Motor & Pump P 1510 Chloride Injection P	3275	3656	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Blower F 401	3240	3559	25.3	113.0	75.6	87.5	101.6	109.9	107.3	103.6	98.5	92.1	84.9	66.1
Stack Noise	3442	3621	55.3	108.4		94.8	99.9	102.4	97.8	97.0	102.2	99.0	95.9	
P-371 A/B	3314	3578	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-375 A/B	3321	3579	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-377	3325	3579	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-376	3327	3579	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-374 A/B	3329	3579	24.6	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-373 A/B	3333	3579	24.6	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-376 A/B	3337	3579	24.6	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-261 A/B	3376	3498	23.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-262 A/B	3392	3498	23.7	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-263 A/B	3396	3498	23.7	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-260	3400	3497	23.7	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-255 A/B	3409	3487	23.7	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-259 A/B	3413	3486	23.7	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-251 A/B	3417	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-256 A/B	3420	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-255 A/B	3425	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-254 A/B	3428	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-272 A/B	3434	3486	23.9	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-271 A/B	3439	3486	23.9	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-275 A/B/C	3440	3497	23.9	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-253	3428	3497	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-252 A/B	3420	3497	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-1853	3439	3445	23.8	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-273 A/B	3469	3488	24.0	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-270 A/B	3472	3488	24.0	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-353	3488	3444	24.9	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-305	3485	3430	23.8	99.3	47.5	63.3	76.5	86.9	93.1	95.8	91.9	87.2	78.0	67.7
P-309	3488	3430	23.8	99.3	47.5	63.3	76.5	86.9	93.1	95.8	91.9	87.2	78.0	67.7
P-306	3495	3430	23.8	100.8	49.0	64.8	78.0	88.4	94.6	97.3	93.4	88.7	79.5	69.2
P-329	3498	3430	23.8	100.8	49.0	64.8	78.0	88.4	94.6	97.3	93.4	88.7	79.5	69.2
P-328	3501	3430	23.8	100.8	49.0	64.8	78.0	88.4	94.6	97.3	93.4	88.7	79.5	69.2
P-360 A/B	3508	3454	24.0	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-359 A/B	3508	3464	24.0	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-358 A/B	3508	3468	24.1	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-361A	3553	3494	25.3	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
P-1806	3540	3505	24.3	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1811 A/B	3547	3505	24.3	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1804	3577	3489	24.1	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1805	3580	3490	24.0	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1811 A/B	3584	3489	24.1	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1810 A/B/C	3583	3501	24.0	99.0	47.2	63.0	76.2	86.6	92.8	95.5	91.6	86.9	77.7	67.4
P-73 A/B	3586	3439	24.2	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-2 A/B	3590	3439	24.2	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-63	3559	3431	24.0	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-1103	3580	3459	25.1	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1101 A	3581	3459	25.1	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1105 A/B/C	3587	3459	25.2	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1800	3612	3416	24.5	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1809 A	3625	3421	23.9	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1801	3662	3420	24.2	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1802	3662	3422	24.1	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1803	3564	3505	24.3	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1847 A/B	3556	3573	24.3	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-1849 A/B	3562	3573	24.3	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-060 A/B	3553	3473	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
P-70 A/B	3553	3468	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
P-50 A/B	3553	3463	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
P-51 A/B	3553	3458	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
Air Compressor Pump	3356	3527	24.8	100.3	61.9	72.1	77.2	84.7	90.1	93.3	94.5	94.3	92.2	
18-1857 A/B	3425	3537	24.8	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-1855 A/B	3432	3537	24.8	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-1856 A/B	3439	3537	24.8	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-1858 A/B	3420	3537	25.5	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-PK 1802 Air Compressor Package	3446	3525	24.0	103.1	51.5	72.6	82.7	100.3	95.7	94.8	92.0	89.9	83.8	

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
ID Fan Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
18-1855 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-1856 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-1857 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-1858 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-PK 1802 Air Compressor Package	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2022 Track Mobile moving rail cars 2 x 25 cars day time									109	109	109		109	109			109	109		109				
Air Compressor C 1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Air Compressor Pump	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Blower F 401	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Boiler Crude Unit-Heater Opening	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Boiler Feed Water Pump A	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Boiler Feed Water Pump B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
C370 A Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
C370 B Motor	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
C370A	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
C370B	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
C-270 A	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
C-270 B	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
C-270 C	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
C-301 Compressor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
C-301 Motor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
C-351 Compressor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
C-351 Motor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
Cars Pumping 6 times in during delivery											110								110					
Compressor House C301, C302, C 124-Comp House East 1	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Compressor House C301, C302, C 124-Comp House East 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House North	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Compressor House C301, C302, C 124-Comp House South 1	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Compressor House C301, C302, C 124-Comp House South 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Cooling Tower CT 510-CT 510 East Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 510-CT 510 West Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 511-CT 511 East Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower CT 511-CT 511 West Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower M 512	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 513	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 514	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
E 321 Fin Fan Hydrogen Plant - Low Noise	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
FD Fan Assembly-FD Fan - East	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
FD Fan Assembly-FD Fan - North	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
FD Fan Assembly-FD Fan - Roof	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
FD Fan Assembly-FD Fan - South	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
FD Fan Assembly-FD Fan - West	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
FD Motor	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Feed Compressor -B Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Feed Compressor-A Compressor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Feed Compressor-A Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Feed Compressor-B Compressor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
H2S Compressor 18-C-271	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Hydro Heater H-402	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
ID Fan-ID Fan - East 1 (128306)	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
ID Fan-ID Fan - East (128302)	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
ID Fan-ID Fan - North	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
ID Fan-ID Fan - North 2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
ID Fan-ID Fan - South	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
ID Fan-ID Fan - South 2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
ID Fan-ID Fan Roof 01 (128293)	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 56A/B	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 120/121	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 211/212	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 215/214	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 216	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 217/218	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 300	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 301	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 302	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 303	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 305	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 306	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Motor & Pump P 307	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 309	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 312	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 313	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 315	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 316	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 317	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 318	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 319	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 327	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Motor & Pump P 328	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 329	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 451	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 453	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 454	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 457	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 458	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 459	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 1505 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1506 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1509 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1510 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1601 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1601 B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1502 Splitter Reflux Pu	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1503 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1504 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1507 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1508 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1511 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1512 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1513 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1514 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Nitrogen Skid w Compressor 18-PK 1806	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
P-2 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-50 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-51 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-060 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-63	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-70 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-73 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1 כ'clock dB(A)	1-2 כ'clock dB(A)	3-4 כ'clock dB(A)	2-3 כ'clock dB(A)	4-5 כ'clock dB(A)	5-6 כ'clock dB(A)	6-7 כ'clock dB(A)	7-8 כ'clock dB(A)	8-9 כ'clock dB(A)	9-10 כ'clock dB(A)	10-11 כ'clock dB(A)	11-12 כ'clock dB(A)	12-13 כ'clock dB(A)	13-14 כ'clock dB(A)	14-15 כ'clock dB(A)	15-16 כ'clock dB(A)	16-17 כ'clock dB(A)	17-18 כ'clock dB(A)	18-19 כ'clock dB(A)	19-20 כ'clock dB(A)	20-21 כ'clock dB(A)	21-22 כ'clock dB(A)	22-23 כ'clock dB(A)	23-24 כ'clock dB(A)
P-251 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-252 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-253	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-254 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-255 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-255 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-256 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-259 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-260	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-261 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-262 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-263 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-270 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-271 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-272 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-273 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-275 A/B/C	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-305	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-306	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
P-309	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-328	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
P-329	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
P-353	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-358 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-359 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-360 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-361A	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-371 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-373 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-374 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-375 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-376	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-376 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-377	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-1101 A	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1103	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1105 A/B/C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1800	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1801	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1802	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1803	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1804	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1805	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1806	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1809 A	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1810 A/B/C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1811 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1811 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1847 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1849 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1853	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Piping Furnace Tanks	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Piping Hydrogen Tanks Compressor	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Piping Hydrogen Tanks Compressor w NC	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Piping Hydrogen Tanks Compressorw NC	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Pre-Treat Train-Pre-Treat Outside Area E	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Pre-Treat Train-Pre-Treat Outside Area N	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Pre-Treat Train-Pre-Treat Outside Area N2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Pre-Treat Train-Pre-Treat Outside Area S	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Pre-Treat Train-Pre-Treat Outside Area S2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Pre-Treat Train-Pre-Treat Outside Area W1	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Pre-Treat Train-Pre-Treat Outside Area W2	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Pre-Treat Train-Pre-Treat Outside Area W3	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Pre-Treat Train-Roof 01	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
PSA Pipe 3" Lagging	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
PSA Skid Additional Piping w NC	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 1

Name	0-1 כ'clock dB(A)	1-2 כ'clock dB(A)	3-4 כ'clock dB(A)	2-3 כ'clock dB(A)	4-5 כ'clock dB(A)	5-6 כ'clock dB(A)	6-7 כ'clock dB(A)	7-8 כ'clock dB(A)	8-9 כ'clock dB(A)	9-10 כ'clock dB(A)	10-11 כ'clock dB(A)	11-12 כ'clock dB(A)	12-13 כ'clock dB(A)	13-14 כ'clock dB(A)	14-15 כ'clock dB(A)	15-16 כ'clock dB(A)	16-17 כ'clock dB(A)	17-18 כ'clock dB(A)	18-19 כ'clock dB(A)	19-20 כ'clock dB(A)	20-21 כ'clock dB(A)	21-22 כ'clock dB(A)	22-23 כ'clock dB(A)	23-24 כ'clock dB(A)
Reformer-Burner Reformer East	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Reformer-Burner Reformer North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Reformer-Burner Reformer South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Reformer-Burner Reformer West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
RFG A from battery to process	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
RFG A from battery to process w NC	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Stack Noise	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Steam Turbine-Facade 01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Steam Turbine-Facade 02	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Steam Turbine-Facade 03	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Steam Turbine-Facade 04	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Steam Turbine-Roof 01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Tank Farm Pump 1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 2	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
UP Train Locomotive Delivery and Pickup 2022 2x											109						109							
XF-1502 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1502 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF 251, 250, 271, 270	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
XF 260, 261A, 261 B	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
XF 304, XF 321	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
XF 313, XF 314	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 335-1, XF 335-2	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 353A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
XF 353A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
XF 354A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
XF 503	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF - 1601	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF - 1602	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF Module 1510	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
XF Module 1519	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

AltAir Paramount - WorldEnergy
Assessed receiver levels
Case 3

Receiver	Fl	X	Y	Z	GH	CNEL	Ld 7-19	Le 19-22	Leq,N	
		m	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	
SS-1	G	3222.3	3477.3	27.4	24.6	73.7	67.5	67.2	67.0	
SS-1	F2	3222.3	3477.3	30.2	24.6	73.8	67.6	67.3	67.0	
SS-1	F3	3222.3	3477.3	33.0	24.6	74.0	67.8	67.5	67.3	
SS-2	G	3245.8	3463.7	27.4	24.7	72.7	66.7	66.3	66.0	
SS-2	F2	3245.8	3463.7	30.2	24.7	73.1	67.0	66.6	66.3	
SS-2	F3	3245.8	3463.7	33.0	24.7	73.5	67.3	66.9	66.7	
SS-3	G	3262.7	3452.4	27.4	24.8	72.3	66.4	65.9	65.5	
SS-3	F2	3262.7	3452.4	30.2	24.8	72.8	66.8	66.3	66.0	
SS-3	F3	3262.7	3452.4	33.0	24.8	73.2	67.2	66.7	66.5	
SS-4	G	3297.3	3432.1	26.8	24.6	71.1	65.3	64.7	64.2	
SS-4	F2	3297.3	3432.1	29.6	24.6	72.4	66.4	65.9	65.6	
SS-4	F3	3297.3	3432.1	32.4	24.6	72.8	66.8	66.3	66.0	
SS-5	G	3347.2	3401.4	26.8	24.3	71.6	65.6	65.1	64.8	
SS-5	F2	3347.2	3401.4	29.6	24.3	72.5	66.4	66.0	65.7	
SS-5	F3	3347.2	3401.4	32.4	24.3	72.8	66.7	66.3	66.0	
SS-6	G	3366.9	3388.5	26.8	24.3	72.0	65.9	65.5	65.3	
SS-6	F2	3366.9	3388.5	29.6	24.3	72.6	66.4	66.1	65.8	
SS-6	F3	3366.9	3388.5	32.4	24.3	72.8	66.7	66.3	66.1	
MH-1	G	3278.2	3756.8	27.5	24.9	72.9	66.3	66.3	66.3	
MH-2	G	3301.5	3757.4	27.5	24.9	71.1	64.4	64.4	64.4	
MH-3	G	3325.0	3757.4	27.4	24.8	68.7	62.1	62.1	62.0	
MH-4	G	3348.3	3757.7	27.3	24.6	67.2	60.6	60.5	60.5	
MH-5	G	3372.0	3757.9	27.3	24.7	66.1	59.5	59.4	59.4	
MH-6	G	3394.7	3757.8	27.4	24.8	63.8	57.2	57.1	57.1	
MH-7	G	3417.3	3757.5	27.4	24.7	64.4	57.8	57.7	57.7	
MH-8	G	3434.4	3757.6	27.5	24.8	66.0	59.4	59.3	59.3	
CA-1	G	3463.2	3759.8	28.1	25.3	66.8	60.3	60.1	60.1	
CA-2	G	3490.4	3761.3	28.5	25.4	64.5	57.9	57.8	57.8	
CA-3	G	3505.3	3759.6	28.3	25.2	64.9	58.3	58.2	58.2	
CA-4	G	3527.8	3759.9	28.7	25.5	61.8	55.3	55.1	55.1	
HWES	G	3131.7	3871.5	25.4	24.1	65.4	59.6	59.2	58.6	
PHS	G	3034.0	3761.2	25.4	24.0	73.2	68.5	67.7	66.1	
RMHP	G	3862.6	3706.8	27.2	25.9	72.8	70.2	68.1	64.7	
RLCTP	G	3873.8	3540.5	26.7	25.4	68.7	66.4	64.7	60.3	

AltAir Paramount - WorldEnergy
Emission calculation road - Case 3

Road	ADT	MSVges Day	MSVges Night	
	Veh/24h	Veh/h	Veh/h	
Lakewood NB	11755	755	130	
Lakewood NB	11755	755	130	
Lakewood NB	13000	835	144	
Lakewood NB	13000	835	144	
Lakewood SB	13000	835	144	
Lakewood SB	13000	835	144	
Lakewood SB	11755	755	130	
Somerset Ave EB	7180	461	80	
Somerset Ave EB	7180	461	80	
Somerset Ave EB	6675	429	74	
Somerset Ave EB	6675	429	74	
Somerset Ave EB	6945	446	77	
Somerset Ave EB	6945	446	77	
Somerset Ave EB	7450	478	83	
Somerset Ave WB	7450	478	83	
Somerset Ave WB	7450	478	83	
Somerset Ave WB	6945	446	77	
Somerset Ave WB	6945	446	77	
Somerset Ave WB	6675	429	74	
Somerset Ave WB	6675	429	74	
Somerset Ave WB	7180	461	80	
Somerset Ave WB	7180	461	80	
Downey Ave NB	6920	444	77	
Downey Ave NB	6920	444	77	
Downey Ave NB	6855	440	76	
Downey Ave NB	6920	444	77	
Downey Ave SB	6855	440	76	
Downey Ave SB	6855	440	76	
Downey Ave SB	6920	444	77	
Revised Renewable Fuels Delivery for Pre	21	1	1	
Crude Operatoin Truck Truck Traffic	347	17	17	
Construction / Renewable Fuels Truck Tr	540	23	23	
Construction / Renewable Fuels Truck Tr	144	6	6	
Construction / Renewable Fuels Truck Tr	60	3	3	
Construction / Renewable Fuels Truck Tr	540	23	23	
Revised Renewable Fuels Delivery for Pre	21	1	1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Receiver SS-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.5 dB(A) Ld 7-19 dB(A) Leq,N 67.0 dB(A) Le 19-2					
ID Fan Motor	38.4	31.7	31.7	31.7	
18-1855 A/B	50.1	43.4	43.4	43.4	
18-1856 A/B	49.8	43.2	43.2	43.2	
18-1857 A/B	46.1	39.4	39.4	39.4	
18-1858 A/B	44.8	38.1	38.1	38.1	
18-PK 1802 Air Compressor Package	53.6	46.9	46.9	46.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.0	56.3	53.9		
Air Compressor C 1	50.6	44.0	44.0	44.0	
Air Compressor Pump	51.0	44.4	44.4	44.4	
Blower F 401	57.7	51.1	51.1	51.1	
Boiler Crude Unit-Heater Opening	43.4	36.8	36.8	36.8	
Boiler Feed Water Pump A	43.7	37.0	37.0	37.0	
Boiler Feed Water Pump B	43.6	36.9	36.9	36.9	
C-270 A	53.6	46.9	46.9	46.9	
C-270 B	53.1	46.4	46.4	46.4	
C-270 C	52.1	45.4	45.4	45.4	
C-301 Compressor	53.6	47.0	47.0	47.0	
C-301 Motor	53.2	46.6	46.6	46.6	
C-351 Compressor	53.3	46.6	46.6	46.6	
C-351 Motor	50.1	43.5	43.5	43.5	
C370 A Motor	50.7	44.0	44.0	44.0	
C370 B Motor	55.6	48.9	48.9	48.9	
C370A	54.2	47.5	47.5	47.5	
C370B	51.4	44.8	44.8	44.8	
Cars Pumping 6 times in during delivery	49.4	52.4			
Compressor House C301, C302, C 124-Comp House East 1	54.2	47.5	47.5	47.5	
Compressor House C301, C302, C 124-Comp House East 2	53.1	46.4	46.4	46.4	
Compressor House C301, C302, C 124-Comp House North	41.5	34.8	34.8	34.8	
Compressor House C301, C302, C 124-Comp House South 1	55.4	48.7	48.7	48.7	
Compressor House C301, C302, C 124-Comp House South 2	48.5	41.8	41.8	41.8	
Compressor House C301, C302, C 124-Comp House West	45.6	38.9	38.9	38.9	
xxxx xxxx xxxx xxxx	44.4	37.7	37.7	37.7	
Cooling Tower CT 510-CT 510 East Side	36.3	29.6	29.6	29.6	
Cooling Tower CT 510-CT 510 West Side	55.9	49.2	49.2	49.2	
Cooling Tower CT 511-CT 511 East Side	36.9	30.2	30.2	30.2	
Cooling Tower CT 511-CT 511 West Side	52.1	45.4	45.4	45.4	
Cooling Tower M 512	53.2	46.5	46.5	46.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 513	53.1	46.5	46.5	46.5	
Cooling Tower M 514	51.6	44.9	44.9	44.9	
xxxx xxxx xxxx xxxx	36.6	30.4		30.4	
xxxx xxxx xxxx xxxx	37.4	35.9	34.2	28.3	
xxxx xxxx xxxx xxxx	36.9	35.3	33.6	27.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	38.9	32.3	32.3	32.3	
FD Fan Assembly-FD Fan - East	35.5	28.9	28.9	28.9	
FD Fan Assembly-FD Fan - North	32.5	25.8	25.8	25.8	
FD Fan Assembly-FD Fan - Roof	31.7	25.1	25.1	25.1	
FD Fan Assembly-FD Fan - South	35.5	28.9	28.9	28.9	
FD Fan Assembly-FD Fan - West	37.1	30.4	30.4	30.4	
FD Motor	32.1	25.4	25.4	25.4	
Feed Compressor-A Compressor	44.6	37.9	37.9	37.9	
Feed Compressor-A Motor	46.6	39.9	39.9	39.9	
Feed Compressor-B Compressor	48.7	42.0	42.0	42.0	
Feed Compressor -B Motor	48.1	41.4	41.4	41.4	
H2S Compressor 18-C-271	55.2	48.5	48.5	48.5	
Heater # 5-Heater	30.7	24.0	24.0	24.0	
Heater # 5-Heater	34.8	28.1	28.1	28.1	
Heater # 5-Heater	28.4	21.7	21.7	21.7	
Hydro Heater H-402	42.0	35.4	35.4	35.4	
ID Fan-ID Fan - East (128302)	31.9	25.2	25.2	25.2	
ID Fan-ID Fan - East 1 (128306)	28.2	21.6	21.6	21.6	
ID Fan-ID Fan - North	33.0	26.3	26.3	26.3	
ID Fan-ID Fan - North 2	33.8	27.1	27.1	27.1	
ID Fan-ID Fan - South	41.8	35.1	35.1	35.1	
ID Fan-ID Fan - South 2	39.1	32.4	32.4	32.4	
ID Fan-ID Fan Roof 01 (128293)	39.7	33.1	33.1	33.1	
xxxx xxxx xxxx xxxx	26.7	25.2	23.5	17.6	
xxxx xxxx xxxx xxxx	26.6	25.1	23.4	17.5	
Motor & Pump P - 1502 Splitter Reflux Pu	50.2	43.5	43.5	43.5	
Motor & Pump P - 1503 Splitter Bottoms P	49.8	43.2	43.2	43.2	
Motor & Pump P - 1504 Splitter Bottoms P	49.7	43.0	43.0	43.0	
Motor & Pump P - 1507 Reactor Pump	40.9	34.2	34.2	34.2	
Motor & Pump P - 1508 Reactor Pump	42.2	35.5	35.5	35.5	
Motor & Pump P - 1511 Stabilizer Reflux	44.1	37.4	37.4	37.4	
Motor & Pump P - 1512 Stabilizer Reflux	49.0	42.3	42.3	42.3	
Motor & Pump P - 1513 Caustic Circulatin	49.1	42.4	42.4	42.4	
Motor & Pump P - 1514 Caustic Circulatin	49.2	42.5	42.5	42.5	
Motor & Pump P 120/121	34.1	27.4	27.4	27.4	
Motor & Pump P 1505 FRESH FEED PUMPS	32.8	26.1	26.1	26.1	
Motor & Pump P 1506 FRESH FEED PUMPS	47.1	40.4	40.4	40.4	
Motor & Pump P 1509 Chloride Injection P	39.6	33.0	33.0	33.0	
Motor & Pump P 1510 Chloride Injection P	39.4	32.7	32.7	32.7	
Motor & Pump P 1601 A	41.9	35.3	35.3	35.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1601 B	41.4	34.8	34.8	34.8	
Motor & Pump P 1602 A	42.9	36.3	36.3	36.3	
Motor & Pump P 1602 B	35.1	28.5	28.5	28.5	
Motor & Pump P 211/212	43.8	37.1	37.1	37.1	
Motor & Pump P 215/214	46.1	39.4	39.4	39.4	
Motor & Pump P 216	53.6	47.0	47.0	47.0	
Motor & Pump P 217/218	45.0	38.3	38.3	38.3	
Motor & Pump P 300	48.9	42.2	42.2	42.2	
Motor & Pump P 301	53.9	47.3	47.3	47.3	
Motor & Pump P 302	48.8	42.1	42.1	42.1	
Motor & Pump P 303	48.7	42.0	42.0	42.0	
Motor & Pump P 305	49.0	42.3	42.3	42.3	
Motor & Pump P 306	62.2	55.5	55.5	55.5	
Motor & Pump P 307	54.1	47.5	47.5	47.5	
Motor & Pump P 309	48.9	42.3	42.3	42.3	
Motor & Pump P 312	54.7	48.0	48.0	48.0	
Motor & Pump P 313	54.8	48.1	48.1	48.1	
Motor & Pump P 315	56.3	49.7	49.7	49.7	
Motor & Pump P 316	56.4	49.8	49.8	49.8	
Motor & Pump P 317	56.5	49.8	49.8	49.8	
Motor & Pump P 318	53.8	47.2	47.2	47.2	
Motor & Pump P 319	53.8	47.1	47.1	47.1	
Motor & Pump P 327	48.3	41.6	41.6	41.6	
Motor & Pump P 328	60.2	53.5	53.5	53.5	
Motor & Pump P 329	60.5	53.9	53.9	53.9	
Motor & Pump P 451	41.0	34.4	34.4	34.4	
Motor & Pump P 453	45.5	38.8	38.8	38.8	
Motor & Pump P 454	34.9	28.2	28.2	28.2	
Motor & Pump P 457	46.5	39.8	39.8	39.8	
Motor & Pump P 458	34.2	27.5	27.5	27.5	
Motor & Pump P 459	34.7	28.1	28.1	28.1	
Motor & Pump P 56A/B	42.1	35.4	35.4	35.4	
Nitrogen Skid w Compressor 18-PK 1806	47.5	40.8	40.8	40.8	
P-060 A/B	21.5	14.8	14.8	14.8	
P-1101 A	38.2	31.6	31.6	31.6	
P-1103	38.2	31.5	31.5	31.5	
P-1105 A/B/C	38.9	32.2	32.2	32.2	
P-1800	39.8	33.1	33.1	33.1	
P-1801	37.3	30.6	30.6	30.6	
P-1802	37.4	30.7	30.7	30.7	
P-1803	39.9	33.2	33.2	33.2	
P-1804	38.5	31.9	31.9	31.9	
P-1805	38.5	31.8	31.8	31.8	
P-1806	47.1	40.4	40.4	40.4	
P-1809 A	38.5	31.8	31.8	31.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1810 A/B/C	38.3	31.7	31.7	31.7	
P-1811 A/B	45.3	38.6	38.6	38.6	
P-1811 A/B	39.0	32.3	32.3	32.3	
P-1847 A/B	47.5	40.9	40.9	40.9	
P-1849 A/B	47.4	40.7	40.7	40.7	
P-1853	45.6	38.9	38.9	38.9	
P-2 A/B	37.1	30.4	30.4	30.4	
P-251 A/B	50.3	43.6	43.6	43.6	
P-252 A/B	49.4	42.7	42.7	42.7	
P-253	48.9	42.2	42.2	42.2	
P-254 A/B	49.6	42.9	42.9	42.9	
P-255 A/B	49.8	43.1	43.1	43.1	
P-255 A/B	50.8	44.1	44.1	44.1	
P-256 A/B	50.1	43.4	43.4	43.4	
P-259 A/B	50.5	43.9	43.9	43.9	
P-260	51.5	44.9	44.9	44.9	
P-261 A/B	52.2	45.5	45.5	45.5	
P-262 A/B	52.1	45.5	45.5	45.5	
P-263 A/B	52.2	45.5	45.5	45.5	
P-270 A/B	49.9	43.2	43.2	43.2	
P-271 A/B	49.1	42.4	42.4	42.4	
P-272 A/B	49.4	42.7	42.7	42.7	
P-273 A/B	49.7	43.0	43.0	43.0	
P-275 A/B/C	48.1	41.5	41.5	41.5	
P-305	29.9	23.3	23.3	23.3	
P-306	31.4	24.7	24.7	24.7	
P-309	30.2	23.5	23.5	23.5	
P-328	31.9	25.2	25.2	25.2	
P-329	31.7	25.0	25.0	25.0	
P-353	45.0	38.4	38.4	38.4	
P-358 A/B	39.4	32.8	32.8	32.8	
P-359 A/B	40.8	34.1	34.1	34.1	
P-360 A/B	47.5	40.9	40.9	40.9	
P-361A	42.9	36.2	36.2	36.2	
P-371 A/B	39.3	32.7	32.7	32.7	
P-373 A/B	52.2	45.5	45.5	45.5	
P-374 A/B	48.2	41.5	41.5	41.5	
P-375 A/B	51.3	44.6	44.6	44.6	
P-376	48.2	41.6	41.6	41.6	
P-376 A/B	54.4	47.8	47.8	47.8	
P-377	48.8	42.1	42.1	42.1	
P-50 A/B	23.0	16.4	16.4	16.4	
P-51 A/B	28.9	22.3	22.3	22.3	
P-63	42.0	35.4	35.4	35.4	
P-70 A/B	22.2	15.5	15.5	15.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-73 A/B	39.0	32.3	32.3	32.3	
Piping Furnace Tanks	33.2	26.6	26.6	26.6	
Piping Hydrogen Tanks Compressor	44.4	37.7	37.7	37.7	
Piping Hydrogen Tanks Compressor w NC	44.3	37.6	37.6	37.6	
Piping Hydrogen Tanks Compressorw NC	41.1	34.4	34.4	34.4	
Pre-Treat Train-Pre-Treat Outside Area E	33.2	26.5	26.5	26.5	
Pre-Treat Train-Pre-Treat Outside Area N	44.0	37.3	37.3	37.3	
Pre-Treat Train-Pre-Treat Outside Area N2	40.9	34.2	34.2	34.2	
Pre-Treat Train-Pre-Treat Outside Area S	53.2	46.5	46.5	46.5	
Pre-Treat Train-Pre-Treat Outside Area S2	50.2	43.5	43.5	43.5	
Pre-Treat Train-Pre-Treat Outside Area W1	43.5	36.9	36.9	36.9	
Pre-Treat Train-Pre-Treat Outside Area W2	51.8	45.1	45.1	45.1	
Pre-Treat Train-Pre-Treat Outside Area W3	47.7	41.1	41.1	41.1	
Pre-Treat Train-Roof 01	51.6	44.9	44.9	44.9	
PSA Pipe 3" Lagging	28.2	21.5	21.5	21.5	
PSA Skid Additional Piping w NC	46.4	39.8	39.8	39.8	
Reformer-Burner Reformer East	38.6	32.0	32.0	32.0	
Reformer-Burner Reformer North	45.6	38.9	38.9	38.9	
Reformer-Burner Reformer South	30.6	24.0	24.0	24.0	
Reformer-Burner Reformer West	50.3	43.6	43.6	43.6	
xxxx xxxx xxxx xxxx	32.2	25.9		25.9	
xxxx xxxx xxxx xxxx	29.9	23.7		23.7	
RFG A from battery to process	44.7	38.0	38.0	38.0	
RFG A from battery to process w NC	41.9	35.2	35.2	35.2	
xxxx xxxx xxxx xxxx	33.3	31.8	30.0	24.1	
xxxx xxxx xxxx xxxx	32.5	31.0	29.3	23.4	
Stack Noise	47.2	40.6	40.6	40.6	
Steam Turbine-Facade 01	39.1	32.4	32.4	32.4	
Steam Turbine-Facade 02	29.9	23.2	23.2	23.2	
Steam Turbine-Facade 03	32.6	25.9	25.9	25.9	
Steam Turbine-Facade 04	33.9	27.2	27.2	27.2	
Steam Turbine-Roof 01	38.7	32.0	32.0	32.0	
Tank Farm Pump 1	41.9	35.2	35.2	35.2	
Tank Farm Pump 2	41.1	34.4	34.4	34.4	
Tank Farm Pump 3	41.0	34.4	34.4	34.4	
UP Train Locomotive Delivery and Pickup 2022 2x	45.7	48.7			
XF-1502 Splitter Area 1	52.2	45.5	45.5	45.5	
XF-1502 Splitter Area 2	52.5	45.8	45.8	45.8	
XF-1504 Splitter Area 1	52.0	45.4	45.4	45.4	
XF-1504 Splitter Area 2	48.5	41.9	41.9	41.9	
XF - 1601	46.3	39.7	39.7	39.7	
XF - 1602	45.2	38.6	38.6	38.6	
XF 251, 250, 271, 270	46.7	40.0	40.0	40.0	
XF 260, 261A, 261 B	47.9	41.2	41.2	41.2	
XF 304, XF 321	56.4	49.8	49.8	49.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 313, XF 314	53.2	46.5	46.5	46.5	
XF 335-1, XF 335-2	55.5	48.8	48.8	48.8	
XF 353A/B	38.0	31.3	31.3	31.3	
XF 353A/B	38.7	32.1	32.1	32.1	
XF 354A/B	38.4	31.8	31.8	31.8	
XF 503	61.4	54.7	54.7	54.7	
XF Module 1510	56.7	50.0	50.0	50.0	
XF Module 1519	57.1	50.4	50.4	50.4	
Receiver SS-1 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.5 dB(A) Ld 7-19 dB(A) Leq,N 67.0 dB(A) Le 19-					
ID Fan Motor	38.4	31.7	31.7	31.7	
18-1855 A/B	49.5	42.9	42.9	42.9	
18-1856 A/B	49.3	42.6	42.6	42.6	
18-1857 A/B	46.7	40.0	40.0	40.0	
18-1858 A/B	45.9	39.2	39.2	39.2	
18-PK 1802 Air Compressor Package	54.1	47.5	47.5	47.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	54.8	56.2	53.8		
Air Compressor C 1	50.9	44.2	44.2	44.2	
Air Compressor Pump	50.8	44.2	44.2	44.2	
Blower F 401	58.3	51.6	51.6	51.6	
Boiler Crude Unit-Heater Opening	45.6	38.9	38.9	38.9	
Boiler Feed Water Pump A	43.3	36.6	36.6	36.6	
Boiler Feed Water Pump B	43.2	36.5	36.5	36.5	
C-270 A	53.4	46.7	46.7	46.7	
C-270 B	52.9	46.3	46.3	46.3	
C-270 C	51.9	45.2	45.2	45.2	
C-301 Compressor	53.4	46.7	46.7	46.7	
C-301 Motor	52.9	46.2	46.2	46.2	
C-351 Compressor	53.1	46.4	46.4	46.4	
C-351 Motor	49.9	43.2	43.2	43.2	
C370 A Motor	51.4	44.7	44.7	44.7	
C370 B Motor	56.2	49.6	49.6	49.6	
C370A	53.7	47.1	47.1	47.1	
C370B	51.5	44.8	44.8	44.8	
Cars Pumping 6 times in during delivery	49.8	52.8			
Compressor House C301, C302, C 124-Comp House East 1	55.2	48.5	48.5	48.5	
Compressor House C301, C302, C 124-Comp House East 2	53.7	47.0	47.0	47.0	
Compressor House C301, C302, C 124-Comp House North	44.9	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House South 1	56.0	49.4	49.4	49.4	
Compressor House C301, C302, C 124-Comp House South 2	49.5	42.8	42.8	42.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	46.2	39.5	39.5	39.5	
xxxx xxxx xxxx xxxx	45.1	38.4	38.4	38.4	
Cooling Tower CT 510-CT 510 East Side	37.3	30.6	30.6	30.6	
Cooling Tower CT 510-CT 510 West Side	56.3	49.7	49.7	49.7	
Cooling Tower CT 511-CT 511 East Side	36.6	29.9	29.9	29.9	
Cooling Tower CT 511-CT 511 West Side	53.8	47.1	47.1	47.1	
Cooling Tower M 512	53.2	46.5	46.5	46.5	
Cooling Tower M 513	53.2	46.6	46.6	46.6	
Cooling Tower M 514	52.1	45.4	45.4	45.4	
xxxx xxxx xxxx xxxx	36.6	30.3		30.3	
xxxx xxxx xxxx xxxx	39.3	37.8	36.1	30.2	
xxxx xxxx xxxx xxxx	38.8	37.3	35.6	29.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	42.0	35.3	35.3	35.3	
FD Fan Assembly-FD Fan - East	34.8	28.2	28.2	28.2	
FD Fan Assembly-FD Fan - North	31.7	25.0	25.0	25.0	
FD Fan Assembly-FD Fan - Roof	33.5	26.8	26.8	26.8	
FD Fan Assembly-FD Fan - South	34.8	28.1	28.1	28.1	
FD Fan Assembly-FD Fan - West	36.4	29.7	29.7	29.7	
FD Motor	31.5	24.8	24.8	24.8	
Feed Compressor-A Compressor	46.7	40.0	40.0	40.0	
Feed Compressor-A Motor	48.5	41.9	41.9	41.9	
Feed Compressor-B Compressor	50.2	43.6	43.6	43.6	
Feed Compressor -B Motor	49.1	42.4	42.4	42.4	
H2S Compressor 18-C-271	55.8	49.1	49.1	49.1	
Heater # 5-Heater	31.7	25.0	25.0	25.0	
Heater # 5-Heater	35.5	28.8	28.8	28.8	
Heater # 5-Heater	29.2	22.6	22.6	22.6	
Hydro Heater H-402	43.3	36.7	36.7	36.7	
ID Fan-ID Fan - East (128302)	32.2	25.6	25.6	25.6	
ID Fan-ID Fan - East 1 (128306)	28.1	21.4	21.4	21.4	
ID Fan-ID Fan - North	33.3	26.6	26.6	26.6	
ID Fan-ID Fan - North 2	33.3	26.6	26.6	26.6	
ID Fan-ID Fan - South	39.9	33.2	33.2	33.2	
ID Fan-ID Fan - South 2	37.3	30.6	30.6	30.6	
ID Fan-ID Fan Roof 01 (128293)	39.4	32.7	32.7	32.7	
xxxx xxxx xxxx xxxx	27.0	25.5	23.8	17.9	
xxxx xxxx xxxx xxxx	26.8	25.3	23.6	17.7	
Motor & Pump P - 1502 Splitter Reflux Pu	49.7	43.1	43.1	43.1	
Motor & Pump P - 1503 Splitter Bottoms P	49.4	42.7	42.7	42.7	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1507 Reactor Pump	42.1	35.4	35.4	35.4	
Motor & Pump P - 1508 Reactor Pump	43.5	36.8	36.8	36.8	
Motor & Pump P - 1511 Stabilizer Reflux	44.3	37.6	37.6	37.6	
Motor & Pump P - 1512 Stabilizer Reflux	48.4	41.7	41.7	41.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	48.7	42.0	42.0	42.0	
Motor & Pump P - 1514 Caustic Circulatin	48.8	42.1	42.1	42.1	
Motor & Pump P 120/121	34.3	27.6	27.6	27.6	
Motor & Pump P 1505 FRESH FEED PUMPS	32.6	25.9	25.9	25.9	
Motor & Pump P 1506 FRESH FEED PUMPS	46.7	40.0	40.0	40.0	
Motor & Pump P 1509 Chloride Injection P	39.7	33.0	33.0	33.0	
Motor & Pump P 1510 Chloride Injection P	39.3	32.6	32.6	32.6	
Motor & Pump P 1601 A	43.4	36.8	36.8	36.8	
Motor & Pump P 1601 B	43.2	36.5	36.5	36.5	
Motor & Pump P 1602 A	44.3	37.7	37.7	37.7	
Motor & Pump P 1602 B	35.3	28.6	28.6	28.6	
Motor & Pump P 211/212	44.1	37.4	37.4	37.4	
Motor & Pump P 215/214	46.3	39.6	39.6	39.6	
Motor & Pump P 216	53.9	47.2	47.2	47.2	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.1	41.5	41.5	41.5	
Motor & Pump P 301	53.2	46.6	46.6	46.6	
Motor & Pump P 302	48.0	41.4	41.4	41.4	
Motor & Pump P 303	48.0	41.3	41.3	41.3	
Motor & Pump P 305	48.3	41.6	41.6	41.6	
Motor & Pump P 306	61.9	55.2	55.2	55.2	
Motor & Pump P 307	53.5	46.8	46.8	46.8	
Motor & Pump P 309	48.2	41.5	41.5	41.5	
Motor & Pump P 312	54.1	47.4	47.4	47.4	
Motor & Pump P 313	54.2	47.6	47.6	47.6	
Motor & Pump P 315	56.0	49.3	49.3	49.3	
Motor & Pump P 316	56.1	49.5	49.5	49.5	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.2	46.5	46.5	46.5	
Motor & Pump P 319	53.1	46.4	46.4	46.4	
Motor & Pump P 327	47.5	40.9	40.9	40.9	
Motor & Pump P 328	59.7	53.0	53.0	53.0	
Motor & Pump P 329	59.9	53.3	53.3	53.3	
Motor & Pump P 451	43.2	36.5	36.5	36.5	
Motor & Pump P 453	46.0	39.3	39.3	39.3	
Motor & Pump P 454	35.3	28.7	28.7	28.7	
Motor & Pump P 457	47.0	40.3	40.3	40.3	
Motor & Pump P 458	35.1	28.4	28.4	28.4	
Motor & Pump P 459	35.2	28.5	28.5	28.5	
Motor & Pump P 56A/B	43.2	36.5	36.5	36.5	
Nitrogen Skid w Compressor 18-PK 1806	50.3	43.7	43.7	43.7	
P-060 A/B	25.0	18.3	18.3	18.3	
P-1101 A	38.6	31.9	31.9	31.9	
P-1103	38.5	31.9	31.9	31.9	
P-1105 A/B/C	39.2	32.5	32.5	32.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1800	40.4	33.7	33.7	33.7	
P-1801	37.5	30.9	30.9	30.9	
P-1802	37.6	30.9	30.9	30.9	
P-1803	44.6	37.9	37.9	37.9	
P-1804	39.1	32.4	32.4	32.4	
P-1805	38.9	32.2	32.2	32.2	
P-1806	46.9	40.3	40.3	40.3	
P-1809 A	39.7	33.0	33.0	33.0	
P-1810 A/B/C	38.4	31.7	31.7	31.7	
P-1811 A/B	45.2	38.5	38.5	38.5	
P-1811 A/B	39.2	32.5	32.5	32.5	
P-1847 A/B	47.5	40.8	40.8	40.8	
P-1849 A/B	47.3	40.7	40.7	40.7	
P-1853	48.7	42.0	42.0	42.0	
P-2 A/B	37.7	31.1	31.1	31.1	
P-251 A/B	49.7	43.0	43.0	43.0	
P-252 A/B	48.7	42.1	42.1	42.1	
P-253	48.3	41.6	41.6	41.6	
P-254 A/B	49.1	42.4	42.4	42.4	
P-255 A/B	49.3	42.6	42.6	42.6	
P-255 A/B	50.1	43.5	43.5	43.5	
P-256 A/B	49.5	42.8	42.8	42.8	
P-259 A/B	49.9	43.3	43.3	43.3	
P-260	50.8	44.1	44.1	44.1	
P-261 A/B	51.4	44.8	44.8	44.8	
P-262 A/B	51.3	44.6	44.6	44.6	
P-263 A/B	51.4	44.7	44.7	44.7	
P-270 A/B	49.6	42.9	42.9	42.9	
P-271 A/B	48.6	41.9	41.9	41.9	
P-272 A/B	48.9	42.2	42.2	42.2	
P-273 A/B	49.4	42.7	42.7	42.7	
P-275 A/B/C	47.6	41.0	41.0	41.0	
P-305	30.5	23.9	23.9	23.9	
P-306	32.2	25.5	25.5	25.5	
P-309	30.8	24.1	24.1	24.1	
P-328	42.5	35.8	35.8	35.8	
P-329	42.1	35.5	35.5	35.5	
P-353	47.0	40.3	40.3	40.3	
P-358 A/B	39.7	33.0	33.0	33.0	
P-359 A/B	42.6	35.9	35.9	35.9	
P-360 A/B	47.5	40.8	40.8	40.8	
P-361A	42.9	36.2	36.2	36.2	
P-371 A/B	39.6	32.9	32.9	32.9	
P-373 A/B	49.7	43.1	43.1	43.1	
P-374 A/B	49.2	42.6	42.6	42.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-375 A/B	50.8	44.1	44.1	44.1	
P-376	49.4	42.7	42.7	42.7	
P-376 A/B	53.4	46.8	46.8	46.8	
P-377	49.8	43.1	43.1	43.1	
P-50 A/B	23.4	16.7	16.7	16.7	
P-51 A/B	29.3	22.6	22.6	22.6	
P-63	44.9	38.3	38.3	38.3	
P-70 A/B	22.6	15.9	15.9	15.9	
P-73 A/B	39.6	33.0	33.0	33.0	
Piping Furnace Tanks	32.8	26.2	26.2	26.2	
Piping Hydrogen Tanks Compressor	44.2	37.6	37.6	37.6	
Piping Hydrogen Tanks Compressor w NC	45.0	38.3	38.3	38.3	
Piping Hydrogen Tanks Compressorw NC	41.7	35.0	35.0	35.0	
Pre-Treat Train-Pre-Treat Outside Area E	33.8	27.1	27.1	27.1	
Pre-Treat Train-Pre-Treat Outside Area N	45.1	38.5	38.5	38.5	
Pre-Treat Train-Pre-Treat Outside Area N2	41.2	34.5	34.5	34.5	
Pre-Treat Train-Pre-Treat Outside Area S	53.5	46.8	46.8	46.8	
Pre-Treat Train-Pre-Treat Outside Area S2	50.2	43.5	43.5	43.5	
Pre-Treat Train-Pre-Treat Outside Area W1	43.7	37.1	37.1	37.1	
Pre-Treat Train-Pre-Treat Outside Area W2	52.0	45.3	45.3	45.3	
Pre-Treat Train-Pre-Treat Outside Area W3	47.9	41.3	41.3	41.3	
Pre-Treat Train-Roof 01	52.2	45.6	45.6	45.6	
PSA Pipe 3" Lagging	27.9	21.2	21.2	21.2	
PSA Skid Additional Piping w NC	47.3	40.7	40.7	40.7	
Reformer-Burner Reformer East	39.4	32.8	32.8	32.8	
Reformer-Burner Reformer North	45.3	38.6	38.6	38.6	
Reformer-Burner Reformer South	31.0	24.4	24.4	24.4	
Reformer-Burner Reformer West	49.5	42.8	42.8	42.8	
xxxx xxxx xxxx xxxx	31.8	25.5		25.5	
xxxx xxxx xxxx xxxx	29.7	23.4		23.4	
RFG A from battery to process	44.8	38.1	38.1	38.1	
RFG A from battery to process w NC	42.7	36.1	36.1	36.1	
xxxx xxxx xxxx xxxx	34.8	33.3	31.6	25.7	
xxxx xxxx xxxx xxxx	33.7	32.2	30.5	24.5	
Stack Noise	48.6	41.9	41.9	41.9	
Steam Turbine-Facade 01	39.2	32.5	32.5	32.5	
Steam Turbine-Facade 02	29.7	23.1	23.1	23.1	
Steam Turbine-Facade 03	33.3	26.6	26.6	26.6	
Steam Turbine-Facade 04	34.3	27.6	27.6	27.6	
Steam Turbine-Roof 01	39.7	33.1	33.1	33.1	
Tank Farm Pump 1	42.7	36.1	36.1	36.1	
Tank Farm Pump 2	42.1	35.5	35.5	35.5	
Tank Farm Pump 3	41.8	35.1	35.1	35.1	
UP Train Locomotive Delivery and Pickup 2022 2x	45.5	48.5			
XF-1502 Splitter Area 1	52.7	46.0	46.0	46.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 2	52.9	46.3	46.3	46.3	
XF-1504 Splitter Area 1	52.5	45.9	45.9	45.9	
XF-1504 Splitter Area 2	49.0	42.4	42.4	42.4	
XF - 1601	47.3	40.7	40.7	40.7	
XF - 1602	46.9	40.2	40.2	40.2	
XF 251, 250, 271, 270	48.1	41.4	41.4	41.4	
XF 260, 261A, 261 B	49.3	42.6	42.6	42.6	
XF 304, XF 321	57.7	51.0	51.0	51.0	
XF 313, XF 314	53.6	46.9	46.9	46.9	
XF 335-1, XF 335-2	56.5	49.9	49.9	49.9	
XF 353A/B	39.5	32.8	32.8	32.8	
XF 353A/B	40.2	33.5	33.5	33.5	
XF 354A/B	40.0	33.3	33.3	33.3	
XF 503	61.5	54.9	54.9	54.9	
XF Module 1510	57.1	50.5	50.5	50.5	
XF Module 1519	57.5	50.8	50.8	50.8	
Receiver SS-1 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 67.7 dB(A)	Ld 7-19 dB(A)	Leq,N 67.3 dB(A)	Le 19-
ID Fan Motor	39.0	32.3	32.3	32.3	
18-1855 A/B	49.3	42.6	42.6	42.6	
18-1856 A/B	49.0	42.3	42.3	42.3	
18-1857 A/B	46.9	40.2	40.2	40.2	
18-1858 A/B	46.4	39.8	39.8	39.8	
18-PK 1802 Air Compressor Package	53.5	46.9	46.9	46.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	54.8	56.2	53.8		
Air Compressor C 1	52.8	46.2	46.2	46.2	
Air Compressor Pump	50.9	44.2	44.2	44.2	
Blower F 401	58.8	52.1	52.1	52.1	
Boiler Crude Unit-Heater Opening	45.9	39.2	39.2	39.2	
Boiler Feed Water Pump A	42.1	35.5	35.5	35.5	
Boiler Feed Water Pump B	42.1	35.4	35.4	35.4	
C-270 A	53.7	47.0	47.0	47.0	
C-270 B	53.2	46.5	46.5	46.5	
C-270 C	52.1	45.4	45.4	45.4	
C-301 Compressor	53.4	46.7	46.7	46.7	
C-301 Motor	52.8	46.1	46.1	46.1	
C-351 Compressor	53.2	46.5	46.5	46.5	
C-351 Motor	50.2	43.5	43.5	43.5	
C370 A Motor	51.6	45.0	45.0	45.0	
C370 B Motor	56.5	49.9	49.9	49.9	
C370A	54.1	47.5	47.5	47.5	
C370B	51.6	44.9	44.9	44.9	
Cars Pumping 6 times in during delivery	49.9	52.9			
Compressor House C301, C302, C 124-Comp House East 1	55.6	49.0	49.0	49.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	53.7	47.1	47.1	47.1	
Compressor House C301, C302, C 124-Comp House North	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House South 1	56.2	49.5	49.5	49.5	
Compressor House C301, C302, C 124-Comp House South 2	50.0	43.3	43.3	43.3	
Compressor House C301, C302, C 124-Comp House West	46.3	39.6	39.6	39.6	
xxxx xxxx xxxx xxxx	46.4	39.7	39.7	39.7	
Cooling Tower CT 510-CT 510 East Side	37.0	30.3	30.3	30.3	
Cooling Tower CT 510-CT 510 West Side	56.4	49.7	49.7	49.7	
Cooling Tower CT 511-CT 511 East Side	36.9	30.2	30.2	30.2	
Cooling Tower CT 511-CT 511 West Side	54.9	48.2	48.2	48.2	
Cooling Tower M 512	53.2	46.5	46.5	46.5	
Cooling Tower M 513	53.2	46.6	46.6	46.6	
Cooling Tower M 514	52.3	45.6	45.6	45.6	
xxxx xxxx xxxx xxxx	36.9	30.6		30.6	
xxxx xxxx xxxx xxxx	40.8	39.3	37.6	31.7	
xxxx xxxx xxxx xxxx	40.3	38.8	37.1	31.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.5	36.8	36.8	36.8	
FD Fan Assembly-FD Fan - East	34.8	28.1	28.1	28.1	
FD Fan Assembly-FD Fan - North	31.7	25.1	25.1	25.1	
FD Fan Assembly-FD Fan - Roof	33.7	27.0	27.0	27.0	
FD Fan Assembly-FD Fan - South	35.0	28.3	28.3	28.3	
FD Fan Assembly-FD Fan - West	36.4	29.8	29.8	29.8	
FD Motor	31.3	24.7	24.7	24.7	
Feed Compressor-A Compressor	48.9	42.3	42.3	42.3	
Feed Compressor-A Motor	49.8	43.1	43.1	43.1	
Feed Compressor-B Compressor	50.7	44.1	44.1	44.1	
Feed Compressor -B Motor	49.3	42.7	42.7	42.7	
H2S Compressor 18-C-271	56.1	49.4	49.4	49.4	
Heater # 5-Heater	31.6	25.0	25.0	25.0	
Heater # 5-Heater	35.3	28.6	28.6	28.6	
Heater # 5-Heater	29.2	22.5	22.5	22.5	
Hydro Heater H-402	43.9	37.2	37.2	37.2	
ID Fan-ID Fan - East (128302)	33.3	26.7	26.7	26.7	
ID Fan-ID Fan - East 1 (128306)	28.3	21.6	21.6	21.6	
ID Fan-ID Fan - North	33.7	27.1	27.1	27.1	
ID Fan-ID Fan - North 2	33.5	26.9	26.9	26.9	
ID Fan-ID Fan - South	38.0	31.3	31.3	31.3	
ID Fan-ID Fan - South 2	38.3	31.6	31.6	31.6	
ID Fan-ID Fan Roof 01 (128293)	39.6	32.9	32.9	32.9	
xxxx xxxx xxxx xxxx	27.2	25.7	24.0	18.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	27.0	25.4	23.7	17.8	
Motor & Pump P - 1502 Splitter Reflux Pu	49.7	43.1	43.1	43.1	
Motor & Pump P - 1503 Splitter Bottoms P	49.4	42.7	42.7	42.7	
Motor & Pump P - 1504 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1507 Reactor Pump	46.3	39.7	39.7	39.7	
Motor & Pump P - 1508 Reactor Pump	47.2	40.5	40.5	40.5	
Motor & Pump P - 1511 Stabilizer Reflux	44.4	37.7	37.7	37.7	
Motor & Pump P - 1512 Stabilizer Reflux	48.4	41.7	41.7	41.7	
Motor & Pump P - 1513 Caustic Circulatin	48.8	42.1	42.1	42.1	
Motor & Pump P - 1514 Caustic Circulatin	48.8	42.1	42.1	42.1	
Motor & Pump P 120/121	37.8	31.1	31.1	31.1	
Motor & Pump P 1505 FRESH FEED PUMPS	42.1	35.5	35.5	35.5	
Motor & Pump P 1506 FRESH FEED PUMPS	48.6	41.9	41.9	41.9	
Motor & Pump P 1509 Chloride Injection P	44.5	37.9	37.9	37.9	
Motor & Pump P 1510 Chloride Injection P	44.4	37.7	37.7	37.7	
Motor & Pump P 1601 A	47.1	40.4	40.4	40.4	
Motor & Pump P 1601 B	47.2	40.5	40.5	40.5	
Motor & Pump P 1602 A	44.5	37.8	37.8	37.8	
Motor & Pump P 1602 B	41.8	35.1	35.1	35.1	
Motor & Pump P 211/212	44.1	37.5	37.5	37.5	
Motor & Pump P 215/214	46.3	39.6	39.6	39.6	
Motor & Pump P 216	53.9	47.2	47.2	47.2	
Motor & Pump P 217/218	44.8	38.1	38.1	38.1	
Motor & Pump P 300	48.2	41.5	41.5	41.5	
Motor & Pump P 301	53.3	46.6	46.6	46.6	
Motor & Pump P 302	48.1	41.4	41.4	41.4	
Motor & Pump P 303	48.0	41.3	41.3	41.3	
Motor & Pump P 305	48.3	41.7	41.7	41.7	
Motor & Pump P 306	62.0	55.3	55.3	55.3	
Motor & Pump P 307	53.5	46.8	46.8	46.8	
Motor & Pump P 309	48.3	41.6	41.6	41.6	
Motor & Pump P 312	54.1	47.4	47.4	47.4	
Motor & Pump P 313	54.2	47.6	47.6	47.6	
Motor & Pump P 315	56.0	49.3	49.3	49.3	
Motor & Pump P 316	56.1	49.5	49.5	49.5	
Motor & Pump P 317	56.3	49.6	49.6	49.6	
Motor & Pump P 318	53.2	46.5	46.5	46.5	
Motor & Pump P 319	53.1	46.4	46.4	46.4	
Motor & Pump P 327	48.6	41.9	41.9	41.9	
Motor & Pump P 328	59.8	53.1	53.1	53.1	
Motor & Pump P 329	60.0	53.3	53.3	53.3	
Motor & Pump P 451	44.4	37.7	37.7	37.7	
Motor & Pump P 453	46.4	39.8	39.8	39.8	
Motor & Pump P 454	36.0	29.3	29.3	29.3	
Motor & Pump P 457	47.3	40.6	40.6	40.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 458	38.4	31.7	31.7	31.7	
Motor & Pump P 459	35.9	29.2	29.2	29.2	
Motor & Pump P 56A/B	42.3	35.6	35.6	35.6	
Nitrogen Skid w Compressor 18-PK 1806	51.2	44.5	44.5	44.5	
P-060 A/B	25.3	18.6	18.6	18.6	
P-1101 A	38.6	31.9	31.9	31.9	
P-1103	38.5	31.9	31.9	31.9	
P-1105 A/B/C	39.3	32.6	32.6	32.6	
P-1800	40.5	33.8	33.8	33.8	
P-1801	37.8	31.1	31.1	31.1	
P-1802	37.8	31.1	31.1	31.1	
P-1803	44.4	37.8	37.8	37.8	
P-1804	41.6	34.9	34.9	34.9	
P-1805	41.6	34.9	34.9	34.9	
P-1806	46.7	40.0	40.0	40.0	
P-1809 A	39.8	33.2	33.2	33.2	
P-1810 A/B/C	38.4	31.8	31.8	31.8	
P-1811 A/B	44.6	37.9	37.9	37.9	
P-1811 A/B	38.7	32.0	32.0	32.0	
P-1847 A/B	46.9	40.2	40.2	40.2	
P-1849 A/B	46.8	40.1	40.1	40.1	
P-1853	49.1	42.5	42.5	42.5	
P-2 A/B	38.2	31.5	31.5	31.5	
P-251 A/B	49.4	42.7	42.7	42.7	
P-252 A/B	48.4	41.7	41.7	41.7	
P-253	47.8	41.2	41.2	41.2	
P-254 A/B	48.6	42.0	42.0	42.0	
P-255 A/B	48.9	42.2	42.2	42.2	
P-255 A/B	49.9	43.3	43.3	43.3	
P-256 A/B	49.2	42.5	42.5	42.5	
P-259 A/B	49.7	43.0	43.0	43.0	
P-260	50.7	44.0	44.0	44.0	
P-261 A/B	51.5	44.8	44.8	44.8	
P-262 A/B	51.3	44.6	44.6	44.6	
P-263 A/B	51.3	44.6	44.6	44.6	
P-270 A/B	48.8	42.2	42.2	42.2	
P-271 A/B	48.1	41.4	41.4	41.4	
P-272 A/B	48.4	41.7	41.7	41.7	
P-273 A/B	48.6	42.0	42.0	42.0	
P-275 A/B/C	47.1	40.4	40.4	40.4	
P-305	32.7	26.1	26.1	26.1	
P-306	41.4	34.7	34.7	34.7	
P-309	33.0	26.4	26.4	26.4	
P-328	42.4	35.8	35.8	35.8	
P-329	42.1	35.4	35.4	35.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-353	46.7	40.0	40.0	40.0	
P-358 A/B	39.0	32.4	32.4	32.4	
P-359 A/B	42.3	35.6	35.6	35.6	
P-360 A/B	46.8	40.2	40.2	40.2	
P-361A	42.3	35.7	35.7	35.7	
P-371 A/B	41.9	35.2	35.2	35.2	
P-373 A/B	47.3	40.6	40.6	40.6	
P-374 A/B	47.4	40.7	40.7	40.7	
P-375 A/B	50.8	44.1	44.1	44.1	
P-376	47.5	40.8	40.8	40.8	
P-376 A/B	53.4	46.8	46.8	46.8	
P-377	47.6	40.9	40.9	40.9	
P-50 A/B	22.9	16.2	16.2	16.2	
P-51 A/B	28.8	22.1	22.1	22.1	
P-63	44.6	38.0	38.0	38.0	
P-70 A/B	25.7	19.0	19.0	19.0	
P-73 A/B	39.8	33.1	33.1	33.1	
Piping Furnace Tanks	32.9	26.3	26.3	26.3	
Piping Hydrogen Tanks Compressor	44.4	37.7	37.7	37.7	
Piping Hydrogen Tanks Compressor w NC	46.4	39.7	39.7	39.7	
Piping Hydrogen Tanks Compressorw NC	43.0	36.3	36.3	36.3	
Pre-Treat Train-Pre-Treat Outside Area E	33.9	27.2	27.2	27.2	
Pre-Treat Train-Pre-Treat Outside Area N	45.4	38.8	38.8	38.8	
Pre-Treat Train-Pre-Treat Outside Area N2	41.1	34.4	34.4	34.4	
Pre-Treat Train-Pre-Treat Outside Area S	53.5	46.9	46.9	46.9	
Pre-Treat Train-Pre-Treat Outside Area S2	50.4	43.7	43.7	43.7	
Pre-Treat Train-Pre-Treat Outside Area W1	43.7	37.0	37.0	37.0	
Pre-Treat Train-Pre-Treat Outside Area W2	51.8	45.2	45.2	45.2	
Pre-Treat Train-Pre-Treat Outside Area W3	47.9	41.3	41.3	41.3	
Pre-Treat Train-Roof 01	52.4	45.8	45.8	45.8	
PSA Pipe 3" Lagging	28.7	22.0	22.0	22.0	
PSA Skid Additional Piping w NC	48.8	42.2	42.2	42.2	
Reformer-Burner Reformer East	39.5	32.9	32.9	32.9	
Reformer-Burner Reformer North	45.4	38.7	38.7	38.7	
Reformer-Burner Reformer South	31.1	24.5	24.5	24.5	
Reformer-Burner Reformer West	49.7	43.0	43.0	43.0	
xxxx xxxx xxxx xxxx	31.9	25.7		25.7	
xxxx xxxx xxxx xxxx	30.2	23.9		23.9	
RFG A from battery to process	45.0	38.3	38.3	38.3	
RFG A from battery to process w NC	44.2	37.6	37.6	37.6	
xxxx xxxx xxxx xxxx	36.1	34.6	32.9	27.0	
xxxx xxxx xxxx xxxx	35.4	33.8	32.1	26.2	
Stack Noise	49.1	42.4	42.4	42.4	
Steam Turbine-Facade 01	39.5	32.8	32.8	32.8	
Steam Turbine-Facade 02	29.9	23.3	23.3	23.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Steam Turbine-Facade 03	34.5	27.9	27.9	27.9	
Steam Turbine-Facade 04	35.0	28.3	28.3	28.3	
Steam Turbine-Roof 01	40.8	34.1	34.1	34.1	
Tank Farm Pump 1	42.5	35.8	35.8	35.8	
Tank Farm Pump 2	40.0	33.3	33.3	33.3	
Tank Farm Pump 3	39.8	33.2	33.2	33.2	
UP Train Locomotive Delivery and Pickup 2022 2x	45.5	48.5			
XF-1502 Splitter Area 1	52.8	46.1	46.1	46.1	
XF-1502 Splitter Area 2	53.1	46.4	46.4	46.4	
XF-1504 Splitter Area 1	52.7	46.0	46.0	46.0	
XF-1504 Splitter Area 2	49.1	42.4	42.4	42.4	
XF - 1601	47.5	40.8	40.8	40.8	
XF - 1602	47.3	40.6	40.6	40.6	
XF 251, 250, 271, 270	48.4	41.7	41.7	41.7	
XF 260, 261A, 261 B	49.5	42.8	42.8	42.8	
XF 304, XF 321	59.3	52.6	52.6	52.6	
XF 313, XF 314	53.8	47.2	47.2	47.2	
XF 335-1, XF 335-2	58.2	51.5	51.5	51.5	
XF 353A/B	40.0	33.4	33.4	33.4	
XF 353A/B	40.7	34.0	34.0	34.0	
XF 354A/B	40.7	34.0	34.0	34.0	
XF 503	61.7	55.0	55.0	55.0	
XF Module 1510	57.2	50.5	50.5	50.5	
XF Module 1519	57.6	50.9	50.9	50.9	
Receiver SS-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 66.0 dB(A) Le 19-2					
ID Fan Motor	37.3	30.6	30.6	30.6	
18-1855 A/B	50.9	44.2	44.2	44.2	
18-1856 A/B	50.6	44.0	44.0	44.0	
18-1857 A/B	51.3	44.6	44.6	44.6	
18-1858 A/B	51.4	44.7	44.7	44.7	
18-PK 1802 Air Compressor Package	54.1	47.4	47.4	47.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.4	56.8	54.4		
Air Compressor C 1	49.4	42.8	42.8	42.8	
Air Compressor Pump	38.6	31.9	31.9	31.9	
Blower F 401	56.3	49.6	49.6	49.6	
Boiler Crude Unit-Heater Opening	44.8	38.1	38.1	38.1	
Boiler Feed Water Pump A	41.8	35.2	35.2	35.2	
Boiler Feed Water Pump B	41.6	35.0	35.0	35.0	
C-270 A	53.6	46.9	46.9	46.9	
C-270 B	53.0	46.3	46.3	46.3	
C-270 C	52.2	45.6	45.6	45.6	
C-301 Compressor	54.3	47.7	47.7	47.7	
C-301 Motor	53.8	47.2	47.2	47.2	
C-351 Compressor	55.4	48.7	48.7	48.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C-351 Motor	51.5	44.8	44.8	44.8	
C370 A Motor	52.0	45.3	45.3	45.3	
C370 B Motor	55.9	49.3	49.3	49.3	
C370A	53.5	46.8	46.8	46.8	
C370B	52.1	45.4	45.4	45.4	
Cars Pumping 6 times in during delivery	49.2	52.2			
Compressor House C301, C302, C 124-Comp House East 1	54.7	48.0	48.0	48.0	
Compressor House C301, C302, C 124-Comp House East 2	52.5	45.8	45.8	45.8	
Compressor House C301, C302, C 124-Comp House North	39.8	33.1	33.1	33.1	
Compressor House C301, C302, C 124-Comp House South 1	54.2	47.5	47.5	47.5	
Compressor House C301, C302, C 124-Comp House South 2	48.0	41.3	41.3	41.3	
Compressor House C301, C302, C 124-Comp House West	43.2	36.5	36.5	36.5	
xxxx xxxx xxxx xxxx	45.4	38.7	38.7	38.7	
Cooling Tower CT 510-CT 510 East Side	30.5	23.9	23.9	23.9	
Cooling Tower CT 510-CT 510 West Side	52.7	46.0	46.0	46.0	
Cooling Tower CT 511-CT 511 East Side	27.7	21.1	21.1	21.1	
Cooling Tower CT 511-CT 511 West Side	50.0	43.4	43.4	43.4	
Cooling Tower M 512	52.9	46.3	46.3	46.3	
Cooling Tower M 513	52.9	46.2	46.2	46.2	
Cooling Tower M 514	52.9	46.2	46.2	46.2	
xxxx xxxx xxxx xxxx	37.5	31.2		31.2	
xxxx xxxx xxxx xxxx	37.0	35.5	33.8	27.8	
xxxx xxxx xxxx xxxx	36.8	35.3	33.6	27.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	40.2	33.5	33.5	33.5	
FD Fan Assembly-FD Fan - East	34.5	27.9	27.9	27.9	
FD Fan Assembly-FD Fan - North	31.8	25.1	25.1	25.1	
FD Fan Assembly-FD Fan - Roof	32.0	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - South	33.4	26.7	26.7	26.7	
FD Fan Assembly-FD Fan - West	35.7	29.0	29.0	29.0	
FD Motor	31.8	25.1	25.1	25.1	
Feed Compressor-A Compressor	48.4	41.7	41.7	41.7	
Feed Compressor-A Motor	48.9	42.2	42.2	42.2	
Feed Compressor-B Compressor	52.4	45.7	45.7	45.7	
Feed Compressor -B Motor	50.6	44.0	44.0	44.0	
H2S Compressor 18-C-271	53.1	46.4	46.4	46.4	
Heater # 5-Heater	32.1	25.5	25.5	25.5	
Heater # 5-Heater	36.0	29.3	29.3	29.3	
Heater # 5-Heater	30.2	23.5	23.5	23.5	
Hydro Heater H-402	49.6	42.9	42.9	42.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan-ID Fan - East (128302)	29.2	22.5	22.5	22.5	
ID Fan-ID Fan - East 1 (128306)	28.3	21.7	21.7	21.7	
ID Fan-ID Fan - North	33.0	26.3	26.3	26.3	
ID Fan-ID Fan - North 2	32.3	25.6	25.6	25.6	
ID Fan-ID Fan - South	41.5	34.8	34.8	34.8	
ID Fan-ID Fan - South 2	38.9	32.3	32.3	32.3	
ID Fan-ID Fan Roof 01 (128293)	41.0	34.3	34.3	34.3	
xxxx xxxx xxxx xxxx	26.7	25.2	23.5	17.5	
xxxx xxxx xxxx xxxx	26.8	25.3	23.6	17.7	
Motor & Pump P - 1502 Splitter Reflux Pu	34.7	28.0	28.0	28.0	
Motor & Pump P - 1503 Splitter Bottoms P	39.3	32.6	32.6	32.6	
Motor & Pump P - 1504 Splitter Bottoms P	41.4	34.7	34.7	34.7	
Motor & Pump P - 1507 Reactor Pump	44.5	37.8	37.8	37.8	
Motor & Pump P - 1508 Reactor Pump	45.8	39.1	39.1	39.1	
Motor & Pump P - 1511 Stabilizer Reflux	35.7	29.0	29.0	29.0	
Motor & Pump P - 1512 Stabilizer Reflux	35.7	29.1	29.1	29.1	
Motor & Pump P - 1513 Caustic Circulatin	43.9	37.2	37.2	37.2	
Motor & Pump P - 1514 Caustic Circulatin	37.9	31.2	31.2	31.2	
Motor & Pump P 120/121	34.0	27.3	27.3	27.3	
Motor & Pump P 1505 FRESH FEED PUMPS	41.5	34.9	34.9	34.9	
Motor & Pump P 1506 FRESH FEED PUMPS	43.8	37.2	37.2	37.2	
Motor & Pump P 1509 Chloride Injection P	42.5	35.8	35.8	35.8	
Motor & Pump P 1510 Chloride Injection P	42.8	36.1	36.1	36.1	
Motor & Pump P 1601 A	38.3	31.6	31.6	31.6	
Motor & Pump P 1601 B	34.6	27.9	27.9	27.9	
Motor & Pump P 1602 A	34.0	27.3	27.3	27.3	
Motor & Pump P 1602 B	35.2	28.5	28.5	28.5	
Motor & Pump P 211/212	48.2	41.5	41.5	41.5	
Motor & Pump P 215/214	48.8	42.2	42.2	42.2	
Motor & Pump P 216	52.4	45.8	45.8	45.8	
Motor & Pump P 217/218	48.5	41.8	41.8	41.8	
Motor & Pump P 300	41.7	35.0	35.0	35.0	
Motor & Pump P 301	47.6	40.9	40.9	40.9	
Motor & Pump P 302	40.6	33.9	33.9	33.9	
Motor & Pump P 303	40.3	33.6	33.6	33.6	
Motor & Pump P 305	39.9	33.3	33.3	33.3	
Motor & Pump P 306	52.6	45.9	45.9	45.9	
Motor & Pump P 307	50.2	43.5	43.5	43.5	
Motor & Pump P 309	39.3	32.6	32.6	32.6	
Motor & Pump P 312	54.0	47.3	47.3	47.3	
Motor & Pump P 313	54.1	47.4	47.4	47.4	
Motor & Pump P 315	55.7	49.0	49.0	49.0	
Motor & Pump P 316	55.6	48.9	48.9	48.9	
Motor & Pump P 317	55.5	48.8	48.8	48.8	
Motor & Pump P 318	53.2	46.5	46.5	46.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 319	53.0	46.4	46.4	46.4	
Motor & Pump P 327	42.0	35.3	35.3	35.3	
Motor & Pump P 328	52.2	45.5	45.5	45.5	
Motor & Pump P 329	51.3	44.6	44.6	44.6	
Motor & Pump P 451	41.1	34.4	34.4	34.4	
Motor & Pump P 453	49.1	42.4	42.4	42.4	
Motor & Pump P 454	44.3	37.7	37.7	37.7	
Motor & Pump P 457	49.2	42.6	42.6	42.6	
Motor & Pump P 458	40.2	33.5	33.5	33.5	
Motor & Pump P 459	44.4	37.7	37.7	37.7	
Motor & Pump P 56A/B	40.6	33.9	33.9	33.9	
Nitrogen Skid w Compressor 18-PK 1806	46.5	39.9	39.9	39.9	
P-060 A/B	22.5	15.8	15.8	15.8	
P-1101 A	39.6	32.9	32.9	32.9	
P-1103	39.3	32.7	32.7	32.7	
P-1105 A/B/C	40.4	33.7	33.7	33.7	
P-1800	36.1	29.4	29.4	29.4	
P-1801	37.0	30.4	30.4	30.4	
P-1802	37.9	31.2	31.2	31.2	
P-1803	40.5	33.8	33.8	33.8	
P-1804	39.3	32.6	32.6	32.6	
P-1805	39.2	32.6	32.6	32.6	
P-1806	46.5	39.9	39.9	39.9	
P-1809 A	34.0	27.3	27.3	27.3	
P-1810 A/B/C	39.1	32.4	32.4	32.4	
P-1811 A/B	46.2	39.5	39.5	39.5	
P-1811 A/B	39.1	32.4	32.4	32.4	
P-1847 A/B	49.5	42.8	42.8	42.8	
P-1849 A/B	47.2	40.6	40.6	40.6	
P-1853	47.0	40.3	40.3	40.3	
P-2 A/B	39.2	32.5	32.5	32.5	
P-251 A/B	51.4	44.8	44.8	44.8	
P-252 A/B	50.4	43.7	43.7	43.7	
P-253	50.0	43.4	43.4	43.4	
P-254 A/B	50.6	43.9	43.9	43.9	
P-255 A/B	50.9	44.2	44.2	44.2	
P-255 A/B	51.9	45.2	45.2	45.2	
P-256 A/B	51.2	44.5	44.5	44.5	
P-259 A/B	51.7	45.0	45.0	45.0	
P-260	52.7	46.1	46.1	46.1	
P-261 A/B	53.4	46.7	46.7	46.7	
P-262 A/B	53.3	46.7	46.7	46.7	
P-263 A/B	53.3	46.6	46.6	46.6	
P-270 A/B	50.8	44.1	44.1	44.1	
P-271 A/B	50.0	43.3	43.3	43.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-272 A/B	50.3	43.6	43.6	43.6	
P-273 A/B	50.6	44.0	44.0	44.0	
P-275 A/B/C	50.0	43.3	43.3	43.3	
P-305	32.6	25.9	25.9	25.9	
P-306	33.5	26.9	26.9	26.9	
P-309	32.5	25.8	25.8	25.8	
P-328	33.6	26.9	26.9	26.9	
P-329	33.5	26.8	26.8	26.8	
P-353	46.2	39.5	39.5	39.5	
P-358 A/B	38.1	31.5	31.5	31.5	
P-359 A/B	44.4	37.7	37.7	37.7	
P-360 A/B	45.6	38.9	38.9	38.9	
P-361A	41.4	34.7	34.7	34.7	
P-371 A/B	48.3	41.6	41.6	41.6	
P-373 A/B	50.1	43.4	43.4	43.4	
P-374 A/B	48.0	41.4	41.4	41.4	
P-375 A/B	53.0	46.3	46.3	46.3	
P-376	47.7	41.0	41.0	41.0	
P-376 A/B	52.5	45.8	45.8	45.8	
P-377	48.2	41.5	41.5	41.5	
P-50 A/B	23.9	17.2	17.2	17.2	
P-51 A/B	30.4	23.7	23.7	23.7	
P-63	43.5	36.8	36.8	36.8	
P-70 A/B	23.1	16.4	16.4	16.4	
P-73 A/B	40.5	33.9	33.9	33.9	
Piping Furnace Tanks	32.5	25.8	25.8	25.8	
Piping Hydrogen Tanks Compressor	43.8	37.1	37.1	37.1	
Piping Hydrogen Tanks Compressor w NC	51.1	44.4	44.4	44.4	
Piping Hydrogen Tanks Compressorw NC	46.5	39.8	39.8	39.8	
Pre-Treat Train-Pre-Treat Outside Area E	33.2	26.6	26.6	26.6	
Pre-Treat Train-Pre-Treat Outside Area N	46.1	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area N2	40.8	34.2	34.2	34.2	
Pre-Treat Train-Pre-Treat Outside Area S	50.7	44.1	44.1	44.1	
Pre-Treat Train-Pre-Treat Outside Area S2	50.0	43.3	43.3	43.3	
Pre-Treat Train-Pre-Treat Outside Area W1	43.4	36.7	36.7	36.7	
Pre-Treat Train-Pre-Treat Outside Area W2	51.8	45.1	45.1	45.1	
Pre-Treat Train-Pre-Treat Outside Area W3	48.1	41.4	41.4	41.4	
Pre-Treat Train-Roof 01	52.1	45.4	45.4	45.4	
PSA Pipe 3" Lagging	29.7	23.0	23.0	23.0	
PSA Skid Additional Piping w NC	52.7	46.1	46.1	46.1	
Reformer-Burner Reformer East	36.5	29.8	29.8	29.8	
Reformer-Burner Reformer North	45.2	38.5	38.5	38.5	
Reformer-Burner Reformer South	31.4	24.7	24.7	24.7	
Reformer-Burner Reformer West	48.8	42.1	42.1	42.1	
xxxx xxxx xxxx xxxx	32.7	26.4		26.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	31.3	25.0		25.0	
RFG A from battery to process	44.0	37.4	37.4	37.4	
RFG A from battery to process w NC	47.9	41.2	41.2	41.2	
xxxx xxxx xxxx xxxx	36.5	35.0	33.3	27.4	
xxxx xxxx xxxx xxxx	36.0	34.5	32.7	26.8	
Stack Noise	47.4	40.8	40.8	40.8	
Steam Turbine-Facade 01	46.9	40.2	40.2	40.2	
Steam Turbine-Facade 02	31.4	24.8	24.8	24.8	
Steam Turbine-Facade 03	48.0	41.3	41.3	41.3	
Steam Turbine-Facade 04	46.2	39.5	39.5	39.5	
Steam Turbine-Roof 01	47.5	40.8	40.8	40.8	
Tank Farm Pump 1	43.3	36.6	36.6	36.6	
Tank Farm Pump 2	43.1	36.4	36.4	36.4	
Tank Farm Pump 3	43.8	37.1	37.1	37.1	
UP Train Locomotive Delivery and Pickup 2022 2x	45.4	48.5			
XF-1502 Splitter Area 1	51.2	44.5	44.5	44.5	
XF-1502 Splitter Area 2	51.5	44.9	44.9	44.9	
XF-1504 Splitter Area 1	47.8	41.1	41.1	41.1	
XF-1504 Splitter Area 2	47.6	40.9	40.9	40.9	
XF - 1601	45.3	38.6	38.6	38.6	
XF - 1602	46.0	39.3	39.3	39.3	
XF 251, 250, 271, 270	47.8	41.1	41.1	41.1	
XF 260, 261A, 261 B	49.2	42.6	42.6	42.6	
XF 304, XF 321	56.2	49.5	49.5	49.5	
XF 313, XF 314	53.4	46.7	46.7	46.7	
XF 335-1, XF 335-2	55.0	48.3	48.3	48.3	
XF 353A/B	38.3	31.6	31.6	31.6	
XF 353A/B	39.5	32.8	32.8	32.8	
XF 354A/B	39.0	32.3	32.3	32.3	
XF 503	58.8	52.1	52.1	52.1	
XF Module 1510	55.1	48.5	48.5	48.5	
XF Module 1519	55.1	48.5	48.5	48.5	
Receiver SS-2 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 67.0 dB(A)	Ld 7-19 dB(A)	Leq,N 66.3 dB(A)	Le 19-
ID Fan Motor	38.0	31.3	31.3	31.3	
18-1855 A/B	50.2	43.5	43.5	43.5	
18-1856 A/B	50.0	43.3	43.3	43.3	
18-1857 A/B	50.6	44.0	44.0	44.0	
18-1858 A/B	51.0	44.3	44.3	44.3	
18-PK 1802 Air Compressor Package	54.5	47.8	47.8	47.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.4	56.8	54.4		
Air Compressor C 1	49.9	43.2	43.2	43.2	
Air Compressor Pump	38.3	31.6	31.6	31.6	
Blower F 401	57.2	50.5	50.5	50.5	
Boiler Crude Unit-Heater Opening	46.6	39.9	39.9	39.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Feed Water Pump A	43.0	36.4	36.4	36.4	
Boiler Feed Water Pump B	43.1	36.5	36.5	36.5	
C-270 A	53.6	47.0	47.0	47.0	
C-270 B	53.1	46.5	46.5	46.5	
C-270 C	52.3	45.6	45.6	45.6	
C-301 Compressor	54.1	47.4	47.4	47.4	
C-301 Motor	53.5	46.9	46.9	46.9	
C-351 Compressor	55.2	48.5	48.5	48.5	
C-351 Motor	50.7	44.0	44.0	44.0	
C370 A Motor	51.8	45.1	45.1	45.1	
C370 B Motor	56.1	49.4	49.4	49.4	
C370A	53.6	46.9	46.9	46.9	
C370B	52.1	45.4	45.4	45.4	
Cars Pumping 6 times in during delivery	49.8	52.8			
Compressor House C301, C302, C 124-Comp House East 1	55.8	49.1	49.1	49.1	
Compressor House C301, C302, C 124-Comp House East 2	53.2	46.6	46.6	46.6	
Compressor House C301, C302, C 124-Comp House North	42.9	36.3	36.3	36.3	
Compressor House C301, C302, C 124-Comp House South 1	55.1	48.4	48.4	48.4	
Compressor House C301, C302, C 124-Comp House South 2	49.2	42.5	42.5	42.5	
Compressor House C301, C302, C 124-Comp House West	43.8	37.1	37.1	37.1	
xxxx xxxx xxxx xxxx	45.9	39.2	39.2	39.2	
Cooling Tower CT 510-CT 510 East Side	31.3	24.7	24.7	24.7	
Cooling Tower CT 510-CT 510 West Side	53.4	46.8	46.8	46.8	
Cooling Tower CT 511-CT 511 East Side	28.7	22.0	22.0	22.0	
Cooling Tower CT 511-CT 511 West Side	51.4	44.7	44.7	44.7	
Cooling Tower M 512	52.8	46.2	46.2	46.2	
Cooling Tower M 513	52.8	46.2	46.2	46.2	
Cooling Tower M 514	52.8	46.1	46.1	46.1	
xxxx xxxx xxxx xxxx	37.1	30.8		30.8	
xxxx xxxx xxxx xxxx	38.2	36.7	35.0	29.1	
xxxx xxxx xxxx xxxx	38.0	36.5	34.8	28.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.8	37.1	37.1	37.1	
FD Fan Assembly-FD Fan - East	35.8	29.1	29.1	29.1	
FD Fan Assembly-FD Fan - North	31.7	25.1	25.1	25.1	
FD Fan Assembly-FD Fan - Roof	33.9	27.2	27.2	27.2	
FD Fan Assembly-FD Fan - South	36.3	29.6	29.6	29.6	
FD Fan Assembly-FD Fan - West	36.9	30.2	30.2	30.2	
FD Motor	31.3	24.6	24.6	24.6	
Feed Compressor-A Compressor	50.5	43.9	43.9	43.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Feed Compressor-A Motor	51.3	44.7	44.7	44.7	
Feed Compressor-B Compressor	53.1	46.5	46.5	46.5	
Feed Compressor -B Motor	51.8	45.1	45.1	45.1	
H2S Compressor 18-C-271	54.4	47.7	47.7	47.7	
Heater # 5-Heater	33.1	26.5	26.5	26.5	
Heater # 5-Heater	36.6	30.0	30.0	30.0	
Heater # 5-Heater	31.1	24.4	24.4	24.4	
Hydro Heater H-402	50.7	44.1	44.1	44.1	
ID Fan-ID Fan - East (128302)	32.5	25.8	25.8	25.8	
ID Fan-ID Fan - East 1 (128306)	28.3	21.6	21.6	21.6	
ID Fan-ID Fan - North	33.3	26.7	26.7	26.7	
ID Fan-ID Fan - North 2	34.0	27.4	27.4	27.4	
ID Fan-ID Fan - South	39.1	32.5	32.5	32.5	
ID Fan-ID Fan - South 2	37.4	30.8	30.8	30.8	
ID Fan-ID Fan Roof 01 (128293)	39.8	33.2	33.2	33.2	
xxxx xxxx xxxx xxxx	26.9	25.3	23.6	17.7	
xxxx xxxx xxxx xxxx	27.2	25.7	23.9	18.0	
Motor & Pump P - 1502 Splitter Reflux Pu	36.0	29.4	29.4	29.4	
Motor & Pump P - 1503 Splitter Bottoms P	40.4	33.7	33.7	33.7	
Motor & Pump P - 1504 Splitter Bottoms P	42.6	35.9	35.9	35.9	
Motor & Pump P - 1507 Reactor Pump	44.2	37.5	37.5	37.5	
Motor & Pump P - 1508 Reactor Pump	45.4	38.7	38.7	38.7	
Motor & Pump P - 1511 Stabilizer Reflux	36.4	29.7	29.7	29.7	
Motor & Pump P - 1512 Stabilizer Reflux	38.1	31.4	31.4	31.4	
Motor & Pump P - 1513 Caustic Circulatin	45.2	38.5	38.5	38.5	
Motor & Pump P - 1514 Caustic Circulatin	39.5	32.9	32.9	32.9	
Motor & Pump P 120/121	34.3	27.6	27.6	27.6	
Motor & Pump P 1505 FRESH FEED PUMPS	41.4	34.7	34.7	34.7	
Motor & Pump P 1506 FRESH FEED PUMPS	43.5	36.9	36.9	36.9	
Motor & Pump P 1509 Chloride Injection P	42.8	36.2	36.2	36.2	
Motor & Pump P 1510 Chloride Injection P	43.0	36.4	36.4	36.4	
Motor & Pump P 1601 A	38.6	31.9	31.9	31.9	
Motor & Pump P 1601 B	34.6	27.9	27.9	27.9	
Motor & Pump P 1602 A	33.6	27.0	27.0	27.0	
Motor & Pump P 1602 B	34.7	28.1	28.1	28.1	
Motor & Pump P 211/212	48.2	41.6	41.6	41.6	
Motor & Pump P 215/214	48.8	42.1	42.1	42.1	
Motor & Pump P 216	52.6	45.9	45.9	45.9	
Motor & Pump P 217/218	48.1	41.4	41.4	41.4	
Motor & Pump P 300	41.4	34.7	34.7	34.7	
Motor & Pump P 301	47.3	40.7	40.7	40.7	
Motor & Pump P 302	40.0	33.4	33.4	33.4	
Motor & Pump P 303	39.7	33.0	33.0	33.0	
Motor & Pump P 305	39.4	32.7	32.7	32.7	
Motor & Pump P 306	53.5	46.8	46.8	46.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 307	50.0	43.3	43.3	43.3	
Motor & Pump P 309	38.8	32.1	32.1	32.1	
Motor & Pump P 312	53.5	46.8	46.8	46.8	
Motor & Pump P 313	53.6	46.9	46.9	46.9	
Motor & Pump P 315	55.4	48.7	48.7	48.7	
Motor & Pump P 316	55.3	48.6	48.6	48.6	
Motor & Pump P 317	55.3	48.6	48.6	48.6	
Motor & Pump P 318	52.6	46.0	46.0	46.0	
Motor & Pump P 319	52.5	45.8	45.8	45.8	
Motor & Pump P 327	41.7	35.0	35.0	35.0	
Motor & Pump P 328	52.8	46.1	46.1	46.1	
Motor & Pump P 329	51.4	44.7	44.7	44.7	
Motor & Pump P 451	41.9	35.3	35.3	35.3	
Motor & Pump P 453	49.4	42.7	42.7	42.7	
Motor & Pump P 454	45.2	38.5	38.5	38.5	
Motor & Pump P 457	49.5	42.8	42.8	42.8	
Motor & Pump P 458	41.4	34.7	34.7	34.7	
Motor & Pump P 459	45.2	38.6	38.6	38.6	
Motor & Pump P 56A/B	41.6	34.9	34.9	34.9	
Nitrogen Skid w Compressor 18-PK 1806	48.7	42.0	42.0	42.0	
P-060 A/B	25.5	18.8	18.8	18.8	
P-1101 A	40.1	33.4	33.4	33.4	
P-1103	39.9	33.2	33.2	33.2	
P-1105 A/B/C	40.7	34.0	34.0	34.0	
P-1800	37.9	31.2	31.2	31.2	
P-1801	38.0	31.3	31.3	31.3	
P-1802	38.1	31.5	31.5	31.5	
P-1803	45.2	38.5	38.5	38.5	
P-1804	39.3	32.6	32.6	32.6	
P-1805	39.2	32.6	32.6	32.6	
P-1806	46.4	39.8	39.8	39.8	
P-1809 A	36.8	30.1	30.1	30.1	
P-1810 A/B/C	39.1	32.4	32.4	32.4	
P-1811 A/B	46.1	39.5	39.5	39.5	
P-1811 A/B	39.2	32.6	32.6	32.6	
P-1847 A/B	49.6	42.9	42.9	42.9	
P-1849 A/B	47.1	40.4	40.4	40.4	
P-1853	50.2	43.5	43.5	43.5	
P-2 A/B	39.8	33.1	33.1	33.1	
P-251 A/B	50.6	44.0	44.0	44.0	
P-252 A/B	49.7	43.0	43.0	43.0	
P-253	49.4	42.7	42.7	42.7	
P-254 A/B	50.0	43.3	43.3	43.3	
P-255 A/B	50.2	43.5	43.5	43.5	
P-255 A/B	51.1	44.4	44.4	44.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-256 A/B	50.5	43.8	43.8	43.8	
P-259 A/B	50.9	44.2	44.2	44.2	
P-260	51.8	45.1	45.1	45.1	
P-261 A/B	52.7	46.0	46.0	46.0	
P-262 A/B	52.5	45.8	45.8	45.8	
P-263 A/B	52.5	45.8	45.8	45.8	
P-270 A/B	50.4	43.8	43.8	43.8	
P-271 A/B	49.4	42.8	42.8	42.8	
P-272 A/B	49.7	43.0	43.0	43.0	
P-273 A/B	50.2	43.6	43.6	43.6	
P-275 A/B/C	49.4	42.7	42.7	42.7	
P-305	31.6	25.0	25.0	25.0	
P-306	33.1	26.4	26.4	26.4	
P-309	31.6	25.0	25.0	25.0	
P-328	40.8	34.1	34.1	34.1	
P-329	40.6	33.9	33.9	33.9	
P-353	47.9	41.2	41.2	41.2	
P-358 A/B	39.6	33.0	33.0	33.0	
P-359 A/B	45.2	38.5	38.5	38.5	
P-360 A/B	48.1	41.5	41.5	41.5	
P-361A	41.4	34.7	34.7	34.7	
P-371 A/B	48.2	41.5	41.5	41.5	
P-373 A/B	50.6	44.0	44.0	44.0	
P-374 A/B	49.4	42.7	42.7	42.7	
P-375 A/B	52.8	46.1	46.1	46.1	
P-376	49.2	42.6	42.6	42.6	
P-376 A/B	52.2	45.5	45.5	45.5	
P-377	49.6	43.0	43.0	43.0	
P-50 A/B	24.3	17.6	17.6	17.6	
P-51 A/B	30.7	24.1	24.1	24.1	
P-63	45.7	39.1	39.1	39.1	
P-70 A/B	23.4	16.7	16.7	16.7	
P-73 A/B	41.2	34.5	34.5	34.5	
Piping Furnace Tanks	33.1	26.5	26.5	26.5	
Piping Hydrogen Tanks Compressor	44.8	38.1	38.1	38.1	
Piping Hydrogen Tanks Compressor w NC	52.1	45.5	45.5	45.5	
Piping Hydrogen Tanks Compressorw NC	47.6	41.0	41.0	41.0	
Pre-Treat Train-Pre-Treat Outside Area E	33.9	27.2	27.2	27.2	
Pre-Treat Train-Pre-Treat Outside Area N	46.2	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area N2	41.2	34.5	34.5	34.5	
Pre-Treat Train-Pre-Treat Outside Area S	51.5	44.8	44.8	44.8	
Pre-Treat Train-Pre-Treat Outside Area S2	50.2	43.5	43.5	43.5	
Pre-Treat Train-Pre-Treat Outside Area W1	43.6	37.0	37.0	37.0	
Pre-Treat Train-Pre-Treat Outside Area W2	52.5	45.8	45.8	45.8	
Pre-Treat Train-Pre-Treat Outside Area W3	48.5	41.8	41.8	41.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Roof 01	52.8	46.1	46.1	46.1	
PSA Pipe 3" Lagging	30.3	23.6	23.6	23.6	
PSA Skid Additional Piping w NC	53.8	47.2	47.2	47.2	
Reformer-Burner Reformer East	37.5	30.9	30.9	30.9	
Reformer-Burner Reformer North	45.6	39.0	39.0	39.0	
Reformer-Burner Reformer South	31.9	25.3	25.3	25.3	
Reformer-Burner Reformer West	49.6	42.9	42.9	42.9	
xxxx xxxx xxxx xxxx	32.3	26.1		26.1	
xxxx xxxx xxxx xxxx	30.8	24.6		24.6	
RFG A from battery to process	45.3	38.7	38.7	38.7	
RFG A from battery to process w NC	49.1	42.4	42.4	42.4	
xxxx xxxx xxxx xxxx	37.6	36.1	34.4	28.5	
xxxx xxxx xxxx xxxx	36.9	35.4	33.7	27.8	
Stack Noise	48.8	42.1	42.1	42.1	
Steam Turbine-Facade 01	46.9	40.2	40.2	40.2	
Steam Turbine-Facade 02	34.8	28.2	28.2	28.2	
Steam Turbine-Facade 03	47.9	41.2	41.2	41.2	
Steam Turbine-Facade 04	46.1	39.5	39.5	39.5	
Steam Turbine-Roof 01	46.9	40.3	40.3	40.3	
Tank Farm Pump 1	43.1	36.4	36.4	36.4	
Tank Farm Pump 2	40.7	34.0	34.0	34.0	
Tank Farm Pump 3	40.5	33.8	33.8	33.8	
UP Train Locomotive Delivery and Pickup 2022 2x	45.5	48.5			
XF-1502 Splitter Area 1	52.1	45.5	45.5	45.5	
XF-1502 Splitter Area 2	52.4	45.7	45.7	45.7	
XF-1504 Splitter Area 1	48.4	41.7	41.7	41.7	
XF-1504 Splitter Area 2	48.2	41.5	41.5	41.5	
XF - 1601	46.9	40.2	40.2	40.2	
XF - 1602	47.1	40.4	40.4	40.4	
XF 251, 250, 271, 270	49.1	42.4	42.4	42.4	
XF 260, 261A, 261 B	50.5	43.8	43.8	43.8	
XF 304, XF 321	57.2	50.5	50.5	50.5	
XF 313, XF 314	54.1	47.4	47.4	47.4	
XF 335-1, XF 335-2	56.1	49.5	49.5	49.5	
XF 353A/B	40.3	33.6	33.6	33.6	
XF 353A/B	40.9	34.3	34.3	34.3	
XF 354A/B	40.6	33.9	33.9	33.9	
XF 503	60.1	53.4	53.4	53.4	
XF Module 1510	56.4	49.8	49.8	49.8	
XF Module 1519	56.7	50.0	50.0	50.0	
Receiver SS-2 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 67.3 dB(A)	Ld 7-19 dB(A)	Leq,N 66.7 dB(A)	Le 19-
ID Fan Motor	38.9	32.2	32.2	32.2	
18-1855 A/B	50.1	43.4	43.4	43.4	
18-1856 A/B	49.8	43.1	43.1	43.1	
18-1857 A/B	50.6	43.9	43.9	43.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
18-1858 A/B	51.0	44.3	44.3	44.3	
18-PK 1802 Air Compressor Package	54.1	47.4	47.4	47.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.4	56.8	54.4		
Air Compressor C 1	52.7	46.1	46.1	46.1	
Air Compressor Pump	38.2	31.6	31.6	31.6	
Blower F 401	57.6	50.9	50.9	50.9	
Boiler Crude Unit-Heater Opening	46.9	40.3	40.3	40.3	
Boiler Feed Water Pump A	43.5	36.9	36.9	36.9	
Boiler Feed Water Pump B	43.5	36.9	36.9	36.9	
C-270 A	53.9	47.2	47.2	47.2	
C-270 B	53.4	46.7	46.7	46.7	
C-270 C	52.5	45.8	45.8	45.8	
C-301 Compressor	54.3	47.6	47.6	47.6	
C-301 Motor	53.7	47.0	47.0	47.0	
C-351 Compressor	55.0	48.3	48.3	48.3	
C-351 Motor	50.9	44.3	44.3	44.3	
C370 A Motor	52.1	45.4	45.4	45.4	
C370 B Motor	58.0	51.3	51.3	51.3	
C370A	53.9	47.3	47.3	47.3	
C370B	52.9	46.2	46.2	46.2	
Cars Pumping 6 times in during delivery	49.9	53.0			
Compressor House C301, C302, C 124-Comp House East 1	56.3	49.6	49.6	49.6	
Compressor House C301, C302, C 124-Comp House East 2	53.3	46.6	46.6	46.6	
Compressor House C301, C302, C 124-Comp House North	44.1	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House South 1	55.2	48.5	48.5	48.5	
Compressor House C301, C302, C 124-Comp House South 2	49.5	42.8	42.8	42.8	
Compressor House C301, C302, C 124-Comp House West	43.8	37.2	37.2	37.2	
xxxx xxxx xxxx xxxx	46.8	40.2	40.2	40.2	
Cooling Tower CT 510-CT 510 East Side	31.7	25.0	25.0	25.0	
Cooling Tower CT 510-CT 510 West Side	54.0	47.4	47.4	47.4	
Cooling Tower CT 511-CT 511 East Side	29.0	22.3	22.3	22.3	
Cooling Tower CT 511-CT 511 West Side	52.7	46.1	46.1	46.1	
Cooling Tower M 512	52.8	46.1	46.1	46.1	
Cooling Tower M 513	52.8	46.2	46.2	46.2	
Cooling Tower M 514	52.8	46.1	46.1	46.1	
xxxx xxxx xxxx xxxx	37.4	31.1		31.1	
xxxx xxxx xxxx xxxx	39.5	38.0	36.3	30.4	
xxxx xxxx xxxx xxxx	39.4	37.8	36.1	30.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
E 321 Fin Fan Hydrogen Plant - Low Noise	44.7	38.0	38.0	38.0	
FD Fan Assembly-FD Fan - East	36.2	29.5	29.5	29.5	
FD Fan Assembly-FD Fan - North	31.9	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - Roof	34.1	27.4	27.4	27.4	
FD Fan Assembly-FD Fan - South	36.5	29.8	29.8	29.8	
FD Fan Assembly-FD Fan - West	37.1	30.5	30.5	30.5	
FD Motor	38.4	31.7	31.7	31.7	
Feed Compressor-A Compressor	52.8	46.1	46.1	46.1	
Feed Compressor-A Motor	51.8	45.2	45.2	45.2	
Feed Compressor-B Compressor	53.3	46.7	46.7	46.7	
Feed Compressor -B Motor	51.9	45.3	45.3	45.3	
H2S Compressor 18-C-271	55.6	48.9	48.9	48.9	
Heater # 5-Heater	33.2	26.5	26.5	26.5	
Heater # 5-Heater	36.6	29.9	29.9	29.9	
Heater # 5-Heater	31.1	24.5	24.5	24.5	
Hydro Heater H-402	50.9	44.3	44.3	44.3	
ID Fan-ID Fan - East (128302)	33.8	27.1	27.1	27.1	
ID Fan-ID Fan - East 1 (128306)	28.8	22.1	22.1	22.1	
ID Fan-ID Fan - North	33.9	27.2	27.2	27.2	
ID Fan-ID Fan - North 2	34.2	27.6	27.6	27.6	
ID Fan-ID Fan - South	38.4	31.7	31.7	31.7	
ID Fan-ID Fan - South 2	38.4	31.8	31.8	31.8	
ID Fan-ID Fan Roof 01 (128293)	40.0	33.3	33.3	33.3	
xxxx xxxx xxxx xxxx	27.2	25.7	24.0	18.1	
xxxx xxxx xxxx xxxx	27.6	26.1	24.4	18.5	
Motor & Pump P - 1502 Splitter Reflux Pu	36.4	29.7	29.7	29.7	
Motor & Pump P - 1503 Splitter Bottoms P	40.7	34.0	34.0	34.0	
Motor & Pump P - 1504 Splitter Bottoms P	43.0	36.3	36.3	36.3	
Motor & Pump P - 1507 Reactor Pump	44.2	37.5	37.5	37.5	
Motor & Pump P - 1508 Reactor Pump	45.4	38.7	38.7	38.7	
Motor & Pump P - 1511 Stabilizer Reflux	37.6	30.9	30.9	30.9	
Motor & Pump P - 1512 Stabilizer Reflux	40.8	34.1	34.1	34.1	
Motor & Pump P - 1513 Caustic Circulatin	43.7	37.1	37.1	37.1	
Motor & Pump P - 1514 Caustic Circulatin	43.1	36.4	36.4	36.4	
Motor & Pump P 120/121	38.0	31.3	31.3	31.3	
Motor & Pump P 1505 FRESH FEED PUMPS	41.4	34.7	34.7	34.7	
Motor & Pump P 1506 FRESH FEED PUMPS	43.6	36.9	36.9	36.9	
Motor & Pump P 1509 Chloride Injection P	41.2	34.6	34.6	34.6	
Motor & Pump P 1510 Chloride Injection P	41.2	34.5	34.5	34.5	
Motor & Pump P 1601 A	40.2	33.6	33.6	33.6	
Motor & Pump P 1601 B	34.4	27.7	27.7	27.7	
Motor & Pump P 1602 A	30.9	24.2	24.2	24.2	
Motor & Pump P 1602 B	30.5	23.8	23.8	23.8	
Motor & Pump P 211/212	48.2	41.6	41.6	41.6	
Motor & Pump P 215/214	48.8	42.1	42.1	42.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 216	52.6	46.0	46.0	46.0	
Motor & Pump P 217/218	48.1	41.4	41.4	41.4	
Motor & Pump P 300	42.5	35.8	35.8	35.8	
Motor & Pump P 301	48.8	42.2	42.2	42.2	
Motor & Pump P 302	40.4	33.7	33.7	33.7	
Motor & Pump P 303	40.2	33.5	33.5	33.5	
Motor & Pump P 305	39.9	33.3	33.3	33.3	
Motor & Pump P 306	54.6	47.9	47.9	47.9	
Motor & Pump P 307	51.3	44.6	44.6	44.6	
Motor & Pump P 309	39.4	32.8	32.8	32.8	
Motor & Pump P 312	53.7	47.1	47.1	47.1	
Motor & Pump P 313	53.8	47.2	47.2	47.2	
Motor & Pump P 315	55.5	48.8	48.8	48.8	
Motor & Pump P 316	55.3	48.7	48.7	48.7	
Motor & Pump P 317	55.5	48.8	48.8	48.8	
Motor & Pump P 318	52.7	46.0	46.0	46.0	
Motor & Pump P 319	52.6	45.9	45.9	45.9	
Motor & Pump P 327	42.6	35.9	35.9	35.9	
Motor & Pump P 328	53.6	46.9	46.9	46.9	
Motor & Pump P 329	52.4	45.7	45.7	45.7	
Motor & Pump P 451	42.2	35.5	35.5	35.5	
Motor & Pump P 453	49.4	42.7	42.7	42.7	
Motor & Pump P 454	45.6	38.9	38.9	38.9	
Motor & Pump P 457	49.5	42.8	42.8	42.8	
Motor & Pump P 458	41.6	34.9	34.9	34.9	
Motor & Pump P 459	45.5	38.8	38.8	38.8	
Motor & Pump P 56A/B	41.1	34.5	34.5	34.5	
Nitrogen Skid w Compressor 18-PK 1806	49.5	42.8	42.8	42.8	
P-060 A/B	25.9	19.3	19.3	19.3	
P-1101 A	40.0	33.4	33.4	33.4	
P-1103	39.9	33.2	33.2	33.2	
P-1105 A/B/C	40.6	33.9	33.9	33.9	
P-1800	39.2	32.5	32.5	32.5	
P-1801	38.4	31.7	31.7	31.7	
P-1802	38.1	31.5	31.5	31.5	
P-1803	44.6	37.9	37.9	37.9	
P-1804	38.8	32.1	32.1	32.1	
P-1805	38.7	32.1	32.1	32.1	
P-1806	45.8	39.1	39.1	39.1	
P-1809 A	37.5	30.8	30.8	30.8	
P-1810 A/B/C	38.7	32.0	32.0	32.0	
P-1811 A/B	45.5	38.8	38.8	38.8	
P-1811 A/B	38.9	32.2	32.2	32.2	
P-1847 A/B	49.0	42.4	42.4	42.4	
P-1849 A/B	46.5	39.8	39.8	39.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1853	50.4	43.7	43.7	43.7	
P-2 A/B	40.0	33.3	33.3	33.3	
P-251 A/B	50.6	43.9	43.9	43.9	
P-252 A/B	49.5	42.8	42.8	42.8	
P-253	49.1	42.4	42.4	42.4	
P-254 A/B	49.7	43.0	43.0	43.0	
P-255 A/B	50.0	43.3	43.3	43.3	
P-255 A/B	51.1	44.4	44.4	44.4	
P-256 A/B	50.3	43.6	43.6	43.6	
P-259 A/B	50.8	44.2	44.2	44.2	
P-260	51.8	45.2	45.2	45.2	
P-261 A/B	52.7	46.1	46.1	46.1	
P-262 A/B	52.5	45.8	45.8	45.8	
P-263 A/B	52.5	45.8	45.8	45.8	
P-270 A/B	49.7	43.0	43.0	43.0	
P-271 A/B	49.0	42.3	42.3	42.3	
P-272 A/B	49.3	42.7	42.7	42.7	
P-273 A/B	49.5	42.9	42.9	42.9	
P-275 A/B/C	49.0	42.3	42.3	42.3	
P-305	33.5	26.8	26.8	26.8	
P-306	40.3	33.6	33.6	33.6	
P-309	33.8	27.1	27.1	27.1	
P-328	41.0	34.3	34.3	34.3	
P-329	40.8	34.1	34.1	34.1	
P-353	47.6	41.0	41.0	41.0	
P-358 A/B	39.3	32.7	32.7	32.7	
P-359 A/B	44.6	38.0	38.0	38.0	
P-360 A/B	47.5	40.9	40.9	40.9	
P-361A	40.8	34.1	34.1	34.1	
P-371 A/B	48.3	41.6	41.6	41.6	
P-373 A/B	47.6	40.9	40.9	40.9	
P-374 A/B	49.8	43.1	43.1	43.1	
P-375 A/B	52.8	46.1	46.1	46.1	
P-376	49.5	42.9	42.9	42.9	
P-376 A/B	52.2	45.5	45.5	45.5	
P-377	49.8	43.1	43.1	43.1	
P-50 A/B	23.7	17.0	17.0	17.0	
P-51 A/B	30.2	23.5	23.5	23.5	
P-63	45.3	38.6	38.6	38.6	
P-70 A/B	26.3	19.6	19.6	19.6	
P-73 A/B	41.3	34.6	34.6	34.6	
Piping Furnace Tanks	33.3	26.6	26.6	26.6	
Piping Hydrogen Tanks Compressor	45.0	38.3	38.3	38.3	
Piping Hydrogen Tanks Compressor w NC	52.9	46.3	46.3	46.3	
Piping Hydrogen Tanks Compressorw NC	48.5	41.8	41.8	41.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Pre-Treat Outside Area E	34.0	27.3	27.3	27.3	
Pre-Treat Train-Pre-Treat Outside Area N	46.1	39.4	39.4	39.4	
Pre-Treat Train-Pre-Treat Outside Area N2	41.0	34.4	34.4	34.4	
Pre-Treat Train-Pre-Treat Outside Area S	51.7	45.0	45.0	45.0	
Pre-Treat Train-Pre-Treat Outside Area S2	50.3	43.7	43.7	43.7	
Pre-Treat Train-Pre-Treat Outside Area W1	43.7	37.0	37.0	37.0	
Pre-Treat Train-Pre-Treat Outside Area W2	52.3	45.6	45.6	45.6	
Pre-Treat Train-Pre-Treat Outside Area W3	48.5	41.8	41.8	41.8	
Pre-Treat Train-Roof 01	53.0	46.3	46.3	46.3	
PSA Pipe 3" Lagging	30.3	23.7	23.7	23.7	
PSA Skid Additional Piping w NC	54.7	48.0	48.0	48.0	
Reformer-Burner Reformer East	37.7	31.0	31.0	31.0	
Reformer-Burner Reformer North	45.7	39.1	39.1	39.1	
Reformer-Burner Reformer South	32.0	25.4	25.4	25.4	
Reformer-Burner Reformer West	49.9	43.3	43.3	43.3	
xxxx xxxx xxxx xxxx	32.4	26.1		26.1	
xxxx xxxx xxxx xxxx	30.6	24.3		24.3	
RFG A from battery to process	45.6	38.9	38.9	38.9	
RFG A from battery to process w NC	50.1	43.4	43.4	43.4	
xxxx xxxx xxxx xxxx	38.7	37.2	35.5	29.6	
xxxx xxxx xxxx xxxx	38.2	36.7	34.9	29.0	
Stack Noise	49.4	42.7	42.7	42.7	
Steam Turbine-Facade 01	48.2	41.6	41.6	41.6	
Steam Turbine-Facade 02	36.0	29.4	29.4	29.4	
Steam Turbine-Facade 03	48.0	41.3	41.3	41.3	
Steam Turbine-Facade 04	46.2	39.5	39.5	39.5	
Steam Turbine-Roof 01	47.1	40.5	40.5	40.5	
Tank Farm Pump 1	40.6	33.9	33.9	33.9	
Tank Farm Pump 2	41.4	34.8	34.8	34.8	
Tank Farm Pump 3	41.5	34.8	34.8	34.8	
UP Train Locomotive Delivery and Pickup 2022 2x	45.4	48.4			
XF-1502 Splitter Area 1	52.4	45.7	45.7	45.7	
XF-1502 Splitter Area 2	52.6	45.9	45.9	45.9	
XF-1504 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1504 Splitter Area 2	48.3	41.6	41.6	41.6	
XF - 1601	47.2	40.6	40.6	40.6	
XF - 1602	47.2	40.5	40.5	40.5	
XF 251, 250, 271, 270	49.4	42.7	42.7	42.7	
XF 260, 261A, 261 B	50.7	44.1	44.1	44.1	
XF 304, XF 321	58.5	51.8	51.8	51.8	
XF 313, XF 314	53.7	47.1	47.1	47.1	
XF 335-1, XF 335-2	57.9	51.2	51.2	51.2	
XF 353A/B	40.9	34.2	34.2	34.2	
XF 353A/B	41.4	34.7	34.7	34.7	
XF 354A/B	41.2	34.6	34.6	34.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 503	60.5	53.8	53.8	53.8	
XF Module 1510	56.7	50.0	50.0	50.0	
XF Module 1519	57.0	50.3	50.3	50.3	
Receiver SS-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.3 dB(A) Ld 7-19 dB(A) Leq,N 65.5 dB(A) Le 19-2					
ID Fan Motor	36.6	29.9	29.9	29.9	
18-1855 A/B	51.3	44.7	44.7	44.7	
18-1856 A/B	51.0	44.3	44.3	44.3	
18-1857 A/B	51.9	45.3	45.3	45.3	
18-1858 A/B	51.8	45.2	45.2	45.2	
18-PK 1802 Air Compressor Package	54.1	47.5	47.5	47.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.5	56.9	54.5		
Air Compressor C 1	50.0	43.3	43.3	43.3	
Air Compressor Pump	43.9	37.2	37.2	37.2	
Blower F 401	55.2	48.5	48.5	48.5	
Boiler Crude Unit-Heater Opening	45.7	39.1	39.1	39.1	
Boiler Feed Water Pump A	42.9	36.2	36.2	36.2	
Boiler Feed Water Pump B	44.2	37.5	37.5	37.5	
C-270 A	53.4	46.7	46.7	46.7	
C-270 B	53.2	46.5	46.5	46.5	
C-270 C	52.2	45.6	45.6	45.6	
C-301 Compressor	54.2	47.5	47.5	47.5	
C-301 Motor	54.4	47.7	47.7	47.7	
C-351 Compressor	55.2	48.5	48.5	48.5	
C-351 Motor	50.5	43.8	43.8	43.8	
C370 A Motor	52.7	46.1	46.1	46.1	
C370 B Motor	55.0	48.3	48.3	48.3	
C370A	54.0	47.3	47.3	47.3	
C370B	52.3	45.6	45.6	45.6	
Cars Pumping 6 times in during delivery	49.0	52.0			
Compressor House C301, C302, C 124-Comp House East 1	53.4	46.8	46.8	46.8	
Compressor House C301, C302, C 124-Comp House East 2	51.3	44.6	44.6	44.6	
Compressor House C301, C302, C 124-Comp House North	41.8	35.2	35.2	35.2	
Compressor House C301, C302, C 124-Comp House South 1	53.1	46.5	46.5	46.5	
Compressor House C301, C302, C 124-Comp House South 2	47.2	40.6	40.6	40.6	
Compressor House C301, C302, C 124-Comp House West	34.9	28.2	28.2	28.2	
xxxx xxxx xxxx xxxx	45.4	38.7	38.7	38.7	
Cooling Tower CT 510-CT 510 East Side	33.4	26.8	26.8	26.8	
Cooling Tower CT 510-CT 510 West Side	52.4	45.7	45.7	45.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 East Side	30.9	24.2	24.2	24.2	
Cooling Tower CT 511-CT 511 West Side	55.4	48.7	48.7	48.7	
Cooling Tower M 512	44.6	38.0	38.0	38.0	
Cooling Tower M 513	52.4	45.8	45.8	45.8	
Cooling Tower M 514	41.5	34.8	34.8	34.8	
xxxx xxxx xxxx xxxx	37.5	31.2		31.2	
xxxx xxxx xxxx xxxx	36.4	34.9	33.1	27.2	
xxxx xxxx xxxx xxxx	36.4	34.9	33.2	27.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	40.0	33.3	33.3	33.3	
FD Fan Assembly-FD Fan - East	33.4	26.7	26.7	26.7	
FD Fan Assembly-FD Fan - North	30.1	23.4	23.4	23.4	
FD Fan Assembly-FD Fan - Roof	30.4	23.8	23.8	23.8	
FD Fan Assembly-FD Fan - South	32.3	25.6	25.6	25.6	
FD Fan Assembly-FD Fan - West	33.8	27.1	27.1	27.1	
FD Motor	30.8	24.1	24.1	24.1	
Feed Compressor-A Compressor	51.6	45.0	45.0	45.0	
Feed Compressor-A Motor	51.1	44.4	44.4	44.4	
Feed Compressor-B Compressor	52.4	45.7	45.7	45.7	
Feed Compressor -B Motor	51.0	44.3	44.3	44.3	
H2S Compressor 18-C-271	51.8	45.1	45.1	45.1	
Heater # 5-Heater	33.5	26.9	26.9	26.9	
Heater # 5-Heater	37.1	30.4	30.4	30.4	
Heater # 5-Heater	31.6	25.0	25.0	25.0	
Hydro Heater H-402	49.3	42.7	42.7	42.7	
ID Fan-ID Fan - East (128302)	28.3	21.6	21.6	21.6	
ID Fan-ID Fan - East 1 (128306)	28.1	21.4	21.4	21.4	
ID Fan-ID Fan - North	32.9	26.2	26.2	26.2	
ID Fan-ID Fan - North 2	32.1	25.4	25.4	25.4	
ID Fan-ID Fan - South	40.4	33.7	33.7	33.7	
ID Fan-ID Fan - South 2	37.8	31.2	31.2	31.2	
ID Fan-ID Fan Roof 01 (128293)	39.9	33.2	33.2	33.2	
xxxx xxxx xxxx xxxx	26.9	25.4	23.6	17.7	
xxxx xxxx xxxx xxxx	27.0	25.5	23.8	17.9	
Motor & Pump P - 1502 Splitter Reflux Pu	36.8	30.2	30.2	30.2	
Motor & Pump P - 1503 Splitter Bottoms P	38.3	31.6	31.6	31.6	
Motor & Pump P - 1504 Splitter Bottoms P	38.9	32.2	32.2	32.2	
Motor & Pump P - 1507 Reactor Pump	44.8	38.1	38.1	38.1	
Motor & Pump P - 1508 Reactor Pump	45.1	38.4	38.4	38.4	
Motor & Pump P - 1511 Stabilizer Reflux	31.8	25.1	25.1	25.1	
Motor & Pump P - 1512 Stabilizer Reflux	35.7	29.0	29.0	29.0	
Motor & Pump P - 1513 Caustic Circulatin	38.8	32.1	32.1	32.1	
Motor & Pump P - 1514 Caustic Circulatin	36.8	30.1	30.1	30.1	
Motor & Pump P 120/121	32.3	25.6	25.6	25.6	
Motor & Pump P 1505 FRESH FEED PUMPS	40.4	33.8	33.8	33.8	
Motor & Pump P 1506 FRESH FEED PUMPS	42.1	35.4	35.4	35.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1509 Chloride Injection P	41.2	34.5	34.5	34.5	
Motor & Pump P 1510 Chloride Injection P	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 A	31.8	25.1	25.1	25.1	
Motor & Pump P 1601 B	35.9	29.3	29.3	29.3	
Motor & Pump P 1602 A	33.9	27.2	27.2	27.2	
Motor & Pump P 1602 B	32.3	25.7	25.7	25.7	
Motor & Pump P 211/212	42.6	35.9	35.9	35.9	
Motor & Pump P 215/214	41.7	35.1	35.1	35.1	
Motor & Pump P 216	51.5	44.8	44.8	44.8	
Motor & Pump P 217/218	42.5	35.8	35.8	35.8	
Motor & Pump P 300	31.9	25.2	25.2	25.2	
Motor & Pump P 301	37.3	30.6	30.6	30.6	
Motor & Pump P 302	31.3	24.6	24.6	24.6	
Motor & Pump P 303	31.5	24.9	24.9	24.9	
Motor & Pump P 305	31.9	25.2	25.2	25.2	
Motor & Pump P 306	47.8	41.1	41.1	41.1	
Motor & Pump P 307	45.0	38.3	38.3	38.3	
Motor & Pump P 309	32.2	25.5	25.5	25.5	
Motor & Pump P 312	48.7	42.0	42.0	42.0	
Motor & Pump P 313	48.8	42.1	42.1	42.1	
Motor & Pump P 315	51.5	44.8	44.8	44.8	
Motor & Pump P 316	51.1	44.4	44.4	44.4	
Motor & Pump P 317	50.6	44.0	44.0	44.0	
Motor & Pump P 318	48.0	41.3	41.3	41.3	
Motor & Pump P 319	47.4	40.7	40.7	40.7	
Motor & Pump P 327	40.3	33.7	33.7	33.7	
Motor & Pump P 328	45.3	38.6	38.6	38.6	
Motor & Pump P 329	45.0	38.3	38.3	38.3	
Motor & Pump P 451	41.2	34.5	34.5	34.5	
Motor & Pump P 453	48.3	41.6	41.6	41.6	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	48.4	41.7	41.7	41.7	
Motor & Pump P 458	43.4	36.8	36.8	36.8	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	37.4	30.7	30.7	30.7	
Nitrogen Skid w Compressor 18-PK 1806	44.7	38.0	38.0	38.0	
P-060 A/B	23.2	16.6	16.6	16.6	
P-1101 A	40.7	34.0	34.0	34.0	
P-1103	40.5	33.9	33.9	33.9	
P-1105 A/B/C	41.0	34.3	34.3	34.3	
P-1800	36.7	30.1	30.1	30.1	
P-1801	33.2	26.5	26.5	26.5	
P-1802	33.2	26.5	26.5	26.5	
P-1803	40.7	34.0	34.0	34.0	
P-1804	40.3	33.6	33.6	33.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1805	40.2	33.6	33.6	33.6	
P-1806	46.7	40.1	40.1	40.1	
P-1809 A	30.4	23.7	23.7	23.7	
P-1810 A/B/C	39.4	32.7	32.7	32.7	
P-1811 A/B	46.4	39.7	39.7	39.7	
P-1811 A/B	40.1	33.5	33.5	33.5	
P-1847 A/B	49.3	42.6	42.6	42.6	
P-1849 A/B	48.7	42.0	42.0	42.0	
P-1853	48.2	41.6	41.6	41.6	
P-2 A/B	41.1	34.4	34.4	34.4	
P-251 A/B	52.2	45.5	45.5	45.5	
P-252 A/B	52.4	45.7	45.7	45.7	
P-253	52.0	45.3	45.3	45.3	
P-254 A/B	51.4	44.7	44.7	44.7	
P-255 A/B	51.6	44.9	44.9	44.9	
P-255 A/B	52.7	46.1	46.1	46.1	
P-256 A/B	51.9	45.3	45.3	45.3	
P-259 A/B	52.4	45.8	45.8	45.8	
P-260	53.4	46.7	46.7	46.7	
P-261 A/B	54.3	47.6	47.6	47.6	
P-262 A/B	54.1	47.4	47.4	47.4	
P-263 A/B	54.0	47.4	47.4	47.4	
P-270 A/B	50.9	44.2	44.2	44.2	
P-271 A/B	51.1	44.5	44.5	44.5	
P-272 A/B	51.0	44.3	44.3	44.3	
P-273 A/B	50.9	44.2	44.2	44.2	
P-275 A/B/C	50.4	43.7	43.7	43.7	
P-305	31.9	25.2	25.2	25.2	
P-306	32.2	25.5	25.5	25.5	
P-309	32.0	25.4	25.4	25.4	
P-328	32.6	26.0	26.0	26.0	
P-329	32.4	25.8	25.8	25.8	
P-353	47.4	40.7	40.7	40.7	
P-358 A/B	36.6	29.9	29.9	29.9	
P-359 A/B	46.7	40.0	40.0	40.0	
P-360 A/B	46.8	40.1	40.1	40.1	
P-361A	42.4	35.8	35.8	35.8	
P-371 A/B	47.9	41.2	41.2	41.2	
P-373 A/B	52.6	45.9	45.9	45.9	
P-374 A/B	52.7	46.0	46.0	46.0	
P-375 A/B	50.4	43.7	43.7	43.7	
P-376	52.8	46.1	46.1	46.1	
P-376 A/B	52.5	45.8	45.8	45.8	
P-377	52.8	46.1	46.1	46.1	
P-50 A/B	24.6	17.9	17.9	17.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-51 A/B	31.7	25.0	25.0	25.0	
P-63	41.3	34.6	34.6	34.6	
P-70 A/B	24.5	17.9	17.9	17.9	
P-73 A/B	40.9	34.2	34.2	34.2	
Piping Furnace Tanks	31.5	24.8	24.8	24.8	
Piping Hydrogen Tanks Compressor	43.1	36.4	36.4	36.4	
Piping Hydrogen Tanks Compressor w NC	53.1	46.4	46.4	46.4	
Piping Hydrogen Tanks Compressorw NC	47.9	41.2	41.2	41.2	
Pre-Treat Train-Pre-Treat Outside Area E	33.3	26.6	26.6	26.6	
Pre-Treat Train-Pre-Treat Outside Area N	46.2	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area N2	40.5	33.8	33.8	33.8	
Pre-Treat Train-Pre-Treat Outside Area S	49.8	43.1	43.1	43.1	
Pre-Treat Train-Pre-Treat Outside Area S2	49.6	42.9	42.9	42.9	
Pre-Treat Train-Pre-Treat Outside Area W1	43.0	36.3	36.3	36.3	
Pre-Treat Train-Pre-Treat Outside Area W2	51.8	45.1	45.1	45.1	
Pre-Treat Train-Pre-Treat Outside Area W3	47.4	40.8	40.8	40.8	
Pre-Treat Train-Roof 01	52.4	45.8	45.8	45.8	
PSA Pipe 3" Lagging	29.6	23.0	23.0	23.0	
PSA Skid Additional Piping w NC	54.3	47.6	47.6	47.6	
Reformer-Burner Reformer East	31.2	24.6	24.6	24.6	
Reformer-Burner Reformer North	44.5	37.8	37.8	37.8	
Reformer-Burner Reformer South	32.0	25.3	25.3	25.3	
Reformer-Burner Reformer West	48.5	41.8	41.8	41.8	
xxxx xxxx xxxx xxxx	32.2	25.9		25.9	
xxxx xxxx xxxx xxxx	31.5	25.2		25.2	
RFG A from battery to process	43.6	36.9	36.9	36.9	
RFG A from battery to process w NC	49.5	42.8	42.8	42.8	
xxxx xxxx xxxx xxxx	36.7	35.2	33.4	27.5	
xxxx xxxx xxxx xxxx	36.0	34.5	32.8	26.9	
Stack Noise	47.5	40.8	40.8	40.8	
Steam Turbine-Facade 01	49.4	42.7	42.7	42.7	
Steam Turbine-Facade 02	36.0	29.4	29.4	29.4	
Steam Turbine-Facade 03	47.1	40.5	40.5	40.5	
Steam Turbine-Facade 04	47.0	40.4	40.4	40.4	
Steam Turbine-Roof 01	46.6	39.9	39.9	39.9	
Tank Farm Pump 1	44.5	37.9	37.9	37.9	
Tank Farm Pump 2	45.7	39.1	39.1	39.1	
Tank Farm Pump 3	45.5	38.9	38.9	38.9	
UP Train Locomotive Delivery and Pickup 2022 2x	45.1	48.2			
XF-1502 Splitter Area 1	51.0	44.4	44.4	44.4	
XF-1502 Splitter Area 2	51.3	44.7	44.7	44.7	
XF-1504 Splitter Area 1	39.6	32.9	32.9	32.9	
XF-1504 Splitter Area 2	48.6	42.0	42.0	42.0	
XF - 1601	42.2	35.5	35.5	35.5	
XF - 1602	41.4	34.8	34.8	34.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 251, 250, 271, 270	48.1	41.4	41.4	41.4	
XF 260, 261A, 261 B	50.3	43.6	43.6	43.6	
XF 304, XF 321	54.1	47.4	47.4	47.4	
XF 313, XF 314	51.5	44.8	44.8	44.8	
XF 335-1, XF 335-2	54.4	47.7	47.7	47.7	
XF 353A/B	38.8	32.1	32.1	32.1	
XF 353A/B	39.3	32.6	32.6	32.6	
XF 354A/B	39.2	32.5	32.5	32.5	
XF 503	57.7	51.0	51.0	51.0	
XF Module 1510	55.5	48.8	48.8	48.8	
XF Module 1519	55.8	49.1	49.1	49.1	
Receiver SS-3 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.7 dB(A) Ld 7-19 dB(A) Leq,N 66.0 dB(A) Le 19-					
ID Fan Motor	36.7	30.1	30.1	30.1	
18-1855 A/B	50.6	43.9	43.9	43.9	
18-1856 A/B	50.3	43.6	43.6	43.6	
18-1857 A/B	51.3	44.6	44.6	44.6	
18-1858 A/B	51.5	44.8	44.8	44.8	
18-PK 1802 Air Compressor Package	54.5	47.9	47.9	47.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.6	57.0	54.6		
Air Compressor C 1	51.8	45.2	45.2	45.2	
Air Compressor Pump	45.5	38.8	38.8	38.8	
Blower F 401	56.5	49.8	49.8	49.8	
Boiler Crude Unit-Heater Opening	47.3	40.6	40.6	40.6	
Boiler Feed Water Pump A	44.1	37.4	37.4	37.4	
Boiler Feed Water Pump B	44.9	38.2	38.2	38.2	
C-270 A	53.7	47.0	47.0	47.0	
C-270 B	53.5	46.8	46.8	46.8	
C-270 C	52.6	45.9	45.9	45.9	
C-301 Compressor	54.1	47.4	47.4	47.4	
C-301 Motor	54.2	47.5	47.5	47.5	
C-351 Compressor	55.4	48.7	48.7	48.7	
C-351 Motor	50.1	43.4	43.4	43.4	
C370 A Motor	52.1	45.4	45.4	45.4	
C370 B Motor	56.2	49.5	49.5	49.5	
C370A	53.3	46.6	46.6	46.6	
C370B	53.4	46.7	46.7	46.7	
Cars Pumping 6 times in during delivery	49.6	52.6			
Compressor House C301, C302, C 124-Comp House East 1	54.7	48.0	48.0	48.0	
Compressor House C301, C302, C 124-Comp House East 2	52.0	45.4	45.4	45.4	
Compressor House C301, C302, C 124-Comp House North	43.5	36.8	36.8	36.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	54.2	47.5	47.5	47.5	
Compressor House C301, C302, C 124-Comp House South 2	48.5	41.8	41.8	41.8	
Compressor House C301, C302, C 124-Comp House West	35.9	29.2	29.2	29.2	
xxxx xxxx xxxx xxxx	45.9	39.2	39.2	39.2	
Cooling Tower CT 510-CT 510 East Side	34.9	28.3	28.3	28.3	
Cooling Tower CT 510-CT 510 West Side	52.9	46.2	46.2	46.2	
Cooling Tower CT 511-CT 511 East Side	31.8	25.1	25.1	25.1	
Cooling Tower CT 511-CT 511 West Side	56.4	49.7	49.7	49.7	
Cooling Tower M 512	44.5	37.8	37.8	37.8	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	41.5	34.8	34.8	34.8	
xxxx xxxx xxxx xxxx	37.2	30.9		30.9	
xxxx xxxx xxxx xxxx	37.5	36.0	34.2	28.3	
xxxx xxxx xxxx xxxx	37.5	36.0	34.3	28.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.0	36.3	36.3	36.3	
FD Fan Assembly-FD Fan - East	36.5	29.9	29.9	29.9	
FD Fan Assembly-FD Fan - North	31.7	25.0	25.0	25.0	
FD Fan Assembly-FD Fan - Roof	34.6	27.9	27.9	27.9	
FD Fan Assembly-FD Fan - South	37.6	30.9	30.9	30.9	
FD Fan Assembly-FD Fan - West	36.4	29.7	29.7	29.7	
FD Motor	33.5	26.8	26.8	26.8	
Feed Compressor-A Compressor	52.8	46.1	46.1	46.1	
Feed Compressor-A Motor	52.4	45.7	45.7	45.7	
Feed Compressor-B Compressor	53.3	46.7	46.7	46.7	
Feed Compressor -B Motor	52.3	45.6	45.6	45.6	
H2S Compressor 18-C-271	52.6	46.0	46.0	46.0	
Heater # 5-Heater	34.5	27.8	27.8	27.8	
Heater # 5-Heater	37.7	31.0	31.0	31.0	
Heater # 5-Heater	32.6	25.9	25.9	25.9	
Hydro Heater H-402	50.4	43.7	43.7	43.7	
ID Fan-ID Fan - East (128302)	32.3	25.6	25.6	25.6	
ID Fan-ID Fan - East 1 (128306)	28.9	22.2	22.2	22.2	
ID Fan-ID Fan - North	32.9	26.2	26.2	26.2	
ID Fan-ID Fan - North 2	34.0	27.3	27.3	27.3	
ID Fan-ID Fan - South	39.3	32.6	32.6	32.6	
ID Fan-ID Fan - South 2	38.0	31.3	31.3	31.3	
ID Fan-ID Fan Roof 01 (128293)	40.1	33.4	33.4	33.4	
xxxx xxxx xxxx xxxx	27.2	25.7	24.0	18.1	
xxxx xxxx xxxx xxxx	27.5	26.0	24.3	18.4	
Motor & Pump P - 1502 Splitter Reflux Pu	37.4	30.8	30.8	30.8	
Motor & Pump P - 1503 Splitter Bottoms P	38.8	32.2	32.2	32.2	
Motor & Pump P - 1504 Splitter Bottoms P	39.4	32.7	32.7	32.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1507 Reactor Pump	44.4	37.7	37.7	37.7	
Motor & Pump P - 1508 Reactor Pump	44.6	37.9	37.9	37.9	
Motor & Pump P - 1511 Stabilizer Reflux	31.2	24.6	24.6	24.6	
Motor & Pump P - 1512 Stabilizer Reflux	37.3	30.6	30.6	30.6	
Motor & Pump P - 1513 Caustic Circulatin	39.4	32.8	32.8	32.8	
Motor & Pump P - 1514 Caustic Circulatin	38.0	31.3	31.3	31.3	
Motor & Pump P 120/121	32.5	25.8	25.8	25.8	
Motor & Pump P 1505 FRESH FEED PUMPS	40.3	33.6	33.6	33.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.8	35.1	35.1	35.1	
Motor & Pump P 1509 Chloride Injection P	41.6	34.9	34.9	34.9	
Motor & Pump P 1510 Chloride Injection P	41.6	34.9	34.9	34.9	
Motor & Pump P 1601 A	31.9	25.2	25.2	25.2	
Motor & Pump P 1601 B	35.9	29.2	29.2	29.2	
Motor & Pump P 1602 A	33.9	27.2	27.2	27.2	
Motor & Pump P 1602 B	32.4	25.7	25.7	25.7	
Motor & Pump P 211/212	42.8	36.1	36.1	36.1	
Motor & Pump P 215/214	42.0	35.4	35.4	35.4	
Motor & Pump P 216	51.5	44.8	44.8	44.8	
Motor & Pump P 217/218	42.3	35.6	35.6	35.6	
Motor & Pump P 300	31.8	25.1	25.1	25.1	
Motor & Pump P 301	37.1	30.4	30.4	30.4	
Motor & Pump P 302	31.2	24.5	24.5	24.5	
Motor & Pump P 303	31.5	24.8	24.8	24.8	
Motor & Pump P 305	31.9	25.2	25.2	25.2	
Motor & Pump P 306	48.5	41.8	41.8	41.8	
Motor & Pump P 307	45.1	38.4	38.4	38.4	
Motor & Pump P 309	32.2	25.5	25.5	25.5	
Motor & Pump P 312	50.2	43.5	43.5	43.5	
Motor & Pump P 313	50.2	43.6	43.6	43.6	
Motor & Pump P 315	51.8	45.1	45.1	45.1	
Motor & Pump P 316	51.4	44.7	44.7	44.7	
Motor & Pump P 317	51.0	44.3	44.3	44.3	
Motor & Pump P 318	49.1	42.4	42.4	42.4	
Motor & Pump P 319	48.9	42.3	42.3	42.3	
Motor & Pump P 327	40.5	33.9	33.9	33.9	
Motor & Pump P 328	45.3	38.6	38.6	38.6	
Motor & Pump P 329	45.0	38.4	38.4	38.4	
Motor & Pump P 451	41.4	34.8	34.8	34.8	
Motor & Pump P 453	48.5	41.8	41.8	41.8	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	48.6	41.9	41.9	41.9	
Motor & Pump P 458	43.6	36.9	36.9	36.9	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	37.4	30.7	30.7	30.7	
Nitrogen Skid w Compressor 18-PK 1806	47.7	41.0	41.0	41.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-060 A/B	23.5	16.8	16.8	16.8	
P-1101 A	41.2	34.5	34.5	34.5	
P-1103	41.0	34.4	34.4	34.4	
P-1105 A/B/C	41.5	34.8	34.8	34.8	
P-1800	38.6	31.9	31.9	31.9	
P-1801	35.7	29.0	29.0	29.0	
P-1802	35.7	29.0	29.0	29.0	
P-1803	45.3	38.6	38.6	38.6	
P-1804	40.3	33.6	33.6	33.6	
P-1805	40.2	33.6	33.6	33.6	
P-1806	46.6	39.9	39.9	39.9	
P-1809 A	32.4	25.7	25.7	25.7	
P-1810 A/B/C	39.8	33.1	33.1	33.1	
P-1811 A/B	46.3	39.6	39.6	39.6	
P-1811 A/B	40.3	33.6	33.6	33.6	
P-1847 A/B	49.2	42.6	42.6	42.6	
P-1849 A/B	48.6	41.9	41.9	41.9	
P-1853	51.1	44.5	44.5	44.5	
P-2 A/B	41.5	34.9	34.9	34.9	
P-251 A/B	51.4	44.7	44.7	44.7	
P-252 A/B	51.5	44.9	44.9	44.9	
P-253	51.2	44.5	44.5	44.5	
P-254 A/B	50.6	43.9	43.9	43.9	
P-255 A/B	50.8	44.1	44.1	44.1	
P-255 A/B	52.0	45.3	45.3	45.3	
P-256 A/B	51.1	44.4	44.4	44.4	
P-259 A/B	51.7	45.0	45.0	45.0	
P-260	52.6	46.0	46.0	46.0	
P-261 A/B	53.6	46.9	46.9	46.9	
P-262 A/B	53.3	46.7	46.7	46.7	
P-263 A/B	53.3	46.6	46.6	46.6	
P-270 A/B	50.9	44.3	44.3	44.3	
P-271 A/B	50.5	43.8	43.8	43.8	
P-272 A/B	50.3	43.6	43.6	43.6	
P-273 A/B	50.7	44.1	44.1	44.1	
P-275 A/B/C	49.7	43.0	43.0	43.0	
P-305	32.3	25.7	25.7	25.7	
P-306	33.1	26.4	26.4	26.4	
P-309	32.6	25.9	25.9	25.9	
P-328	39.6	32.9	32.9	32.9	
P-329	39.4	32.8	32.8	32.8	
P-353	48.5	41.8	41.8	41.8	
P-358 A/B	38.1	31.4	31.4	31.4	
P-359 A/B	48.5	41.8	41.8	41.8	
P-360 A/B	48.8	42.1	42.1	42.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-361A	42.5	35.8	35.8	35.8	
P-371 A/B	49.6	42.9	42.9	42.9	
P-373 A/B	52.3	45.6	45.6	45.6	
P-374 A/B	52.4	45.8	45.8	45.8	
P-375 A/B	50.9	44.3	44.3	44.3	
P-376	52.5	45.8	45.8	45.8	
P-376 A/B	52.2	45.5	45.5	45.5	
P-377	52.5	45.9	45.9	45.9	
P-50 A/B	24.9	18.3	18.3	18.3	
P-51 A/B	32.0	25.3	25.3	25.3	
P-63	41.7	35.0	35.0	35.0	
P-70 A/B	26.9	20.2	20.2	20.2	
P-73 A/B	41.0	34.4	34.4	34.4	
Piping Furnace Tanks	33.3	26.6	26.6	26.6	
Piping Hydrogen Tanks Compressor	44.9	38.2	38.2	38.2	
Piping Hydrogen Tanks Compressor w NC	54.2	47.5	47.5	47.5	
Piping Hydrogen Tanks Compressorw NC	49.0	42.3	42.3	42.3	
Pre-Treat Train-Pre-Treat Outside Area E	34.0	27.3	27.3	27.3	
Pre-Treat Train-Pre-Treat Outside Area N	46.2	39.6	39.6	39.6	
Pre-Treat Train-Pre-Treat Outside Area N2	40.9	34.2	34.2	34.2	
Pre-Treat Train-Pre-Treat Outside Area S	50.6	44.0	44.0	44.0	
Pre-Treat Train-Pre-Treat Outside Area S2	49.9	43.2	43.2	43.2	
Pre-Treat Train-Pre-Treat Outside Area W1	43.3	36.7	36.7	36.7	
Pre-Treat Train-Pre-Treat Outside Area W2	52.8	46.1	46.1	46.1	
Pre-Treat Train-Pre-Treat Outside Area W3	47.9	41.3	41.3	41.3	
Pre-Treat Train-Roof 01	53.2	46.5	46.5	46.5	
PSA Pipe 3" Lagging	30.0	23.4	23.4	23.4	
PSA Skid Additional Piping w NC	55.4	48.7	48.7	48.7	
Reformer-Burner Reformer East	31.8	25.1	25.1	25.1	
Reformer-Burner Reformer North	45.4	38.7	38.7	38.7	
Reformer-Burner Reformer South	32.8	26.2	26.2	26.2	
Reformer-Burner Reformer West	49.6	42.9	42.9	42.9	
xxxx xxxx xxxx xxxx	32.1	25.8		25.8	
xxxx xxxx xxxx xxxx	31.2	24.9		24.9	
RFG A from battery to process	45.6	38.9	38.9	38.9	
RFG A from battery to process w NC	50.7	44.0	44.0	44.0	
xxxx xxxx xxxx xxxx	37.9	36.4	34.7	28.8	
xxxx xxxx xxxx xxxx	37.0	35.5	33.8	27.9	
Stack Noise	48.8	42.2	42.2	42.2	
Steam Turbine-Facade 01	49.3	42.7	42.7	42.7	
Steam Turbine-Facade 02	36.8	30.2	30.2	30.2	
Steam Turbine-Facade 03	47.1	40.4	40.4	40.4	
Steam Turbine-Facade 04	47.1	40.4	40.4	40.4	
Steam Turbine-Roof 01	47.2	40.5	40.5	40.5	
Tank Farm Pump 1	41.5	34.8	34.8	34.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 2	45.6	38.9	38.9	38.9	
Tank Farm Pump 3	45.4	38.7	38.7	38.7	
UP Train Locomotive Delivery and Pickup 2022 2x	45.2	48.2			
XF-1502 Splitter Area 1	51.7	45.0	45.0	45.0	
XF-1502 Splitter Area 2	52.0	45.3	45.3	45.3	
XF-1504 Splitter Area 1	48.4	41.7	41.7	41.7	
XF-1504 Splitter Area 2	47.5	40.8	40.8	40.8	
XF - 1601	45.0	38.3	38.3	38.3	
XF - 1602	44.5	37.8	37.8	37.8	
XF 251, 250, 271, 270	49.8	43.1	43.1	43.1	
XF 260, 261A, 261 B	51.3	44.6	44.6	44.6	
XF 304, XF 321	55.8	49.2	49.2	49.2	
XF 313, XF 314	52.5	45.9	45.9	45.9	
XF 335-1, XF 335-2	55.7	49.0	49.0	49.0	
XF 353A/B	40.9	34.2	34.2	34.2	
XF 353A/B	41.5	34.8	34.8	34.8	
XF 354A/B	40.8	34.1	34.1	34.1	
XF 503	59.2	52.6	52.6	52.6	
XF Module 1510	56.1	49.4	49.4	49.4	
XF Module 1519	56.4	49.7	49.7	49.7	
Receiver SS-3 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.1 dB(A) Ld 7-19 dB(A) Leq,N 66.5 dB(A) Le 19-					
ID Fan Motor	38.4	31.7	31.7	31.7	
18-1855 A/B	50.6	44.0	44.0	44.0	
18-1856 A/B	50.2	43.6	43.6	43.6	
18-1857 A/B	51.3	44.6	44.6	44.6	
18-1858 A/B	51.5	44.8	44.8	44.8	
18-PK 1802 Air Compressor Package	54.2	47.5	47.5	47.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.6	57.0	54.6		
Air Compressor C 1	52.6	46.0	46.0	46.0	
Air Compressor Pump	47.0	40.4	40.4	40.4	
Blower F 401	56.9	50.2	50.2	50.2	
Boiler Crude Unit-Heater Opening	47.7	41.0	41.0	41.0	
Boiler Feed Water Pump A	44.3	37.6	37.6	37.6	
Boiler Feed Water Pump B	45.1	38.4	38.4	38.4	
C-270 A	53.4	46.7	46.7	46.7	
C-270 B	53.2	46.5	46.5	46.5	
C-270 C	52.5	45.8	45.8	45.8	
C-301 Compressor	54.3	47.7	47.7	47.7	
C-301 Motor	54.3	47.7	47.7	47.7	
C-351 Compressor	55.6	49.0	49.0	49.0	
C-351 Motor	50.6	43.9	43.9	43.9	
C370 A Motor	53.4	46.7	46.7	46.7	
C370 B Motor	58.3	51.6	51.6	51.6	
C370A	53.6	46.9	46.9	46.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C370B	54.2	47.5	47.5	47.5	
Cars Pumping 6 times in during delivery	49.7	52.7			
Compressor House C301, C302, C 124-Comp House East 1	55.1	48.4	48.4	48.4	
Compressor House C301, C302, C 124-Comp House East 2	52.1	45.4	45.4	45.4	
Compressor House C301, C302, C 124-Comp House North	45.8	39.1	39.1	39.1	
Compressor House C301, C302, C 124-Comp House South 1	54.3	47.7	47.7	47.7	
Compressor House C301, C302, C 124-Comp House South 2	48.7	42.1	42.1	42.1	
Compressor House C301, C302, C 124-Comp House West	36.1	29.4	29.4	29.4	
xxxx xxxx xxxx xxxx	47.0	40.4	40.4	40.4	
Cooling Tower CT 510-CT 510 East Side	35.8	29.1	29.1	29.1	
Cooling Tower CT 510-CT 510 West Side	52.9	46.2	46.2	46.2	
Cooling Tower CT 511-CT 511 East Side	32.4	25.7	25.7	25.7	
Cooling Tower CT 511-CT 511 West Side	56.8	50.1	50.1	50.1	
Cooling Tower M 512	44.8	38.2	38.2	38.2	
Cooling Tower M 513	52.3	45.6	45.6	45.6	
Cooling Tower M 514	42.2	35.5	35.5	35.5	
xxxx xxxx xxxx xxxx	37.4	31.2		31.2	
xxxx xxxx xxxx xxxx	38.8	37.3	35.6	29.7	
xxxx xxxx xxxx xxxx	38.8	37.3	35.6	29.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	44.7	38.0	38.0	38.0	
FD Fan Assembly-FD Fan - East	37.2	30.5	30.5	30.5	
FD Fan Assembly-FD Fan - North	31.8	25.2	25.2	25.2	
FD Fan Assembly-FD Fan - Roof	34.7	28.1	28.1	28.1	
FD Fan Assembly-FD Fan - South	37.8	31.1	31.1	31.1	
FD Fan Assembly-FD Fan - West	38.0	31.4	31.4	31.4	
FD Motor	39.2	32.6	32.6	32.6	
Feed Compressor-A Compressor	53.1	46.4	46.4	46.4	
Feed Compressor-A Motor	52.6	46.0	46.0	46.0	
Feed Compressor-B Compressor	53.5	46.8	46.8	46.8	
Feed Compressor -B Motor	52.3	45.6	45.6	45.6	
H2S Compressor 18-C-271	55.2	48.5	48.5	48.5	
Heater # 5-Heater	34.6	27.9	27.9	27.9	
Heater # 5-Heater	37.8	31.1	31.1	31.1	
Heater # 5-Heater	32.7	26.0	26.0	26.0	
Hydro Heater H-402	50.7	44.0	44.0	44.0	
ID Fan-ID Fan - East (128302)	34.0	27.3	27.3	27.3	
ID Fan-ID Fan - East 1 (128306)	29.3	22.6	22.6	22.6	
ID Fan-ID Fan - North	33.7	27.1	27.1	27.1	
ID Fan-ID Fan - North 2	34.2	27.6	27.6	27.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan-ID Fan - South	38.5	31.8	31.8	31.8	
ID Fan-ID Fan - South 2	38.4	31.8	31.8	31.8	
ID Fan-ID Fan Roof 01 (128293)	40.3	33.6	33.6	33.6	
xxxx xxxx xxxx xxxx	27.9	26.4	24.7	18.8	
xxxx xxxx xxxx xxxx	28.2	26.7	25.0	19.1	
Motor & Pump P - 1502 Splitter Reflux Pu	37.6	31.0	31.0	31.0	
Motor & Pump P - 1503 Splitter Bottoms P	39.1	32.5	32.5	32.5	
Motor & Pump P - 1504 Splitter Bottoms P	39.7	33.0	33.0	33.0	
Motor & Pump P - 1507 Reactor Pump	44.5	37.8	37.8	37.8	
Motor & Pump P - 1508 Reactor Pump	44.7	38.0	38.0	38.0	
Motor & Pump P - 1511 Stabilizer Reflux	31.3	24.6	24.6	24.6	
Motor & Pump P - 1512 Stabilizer Reflux	38.0	31.3	31.3	31.3	
Motor & Pump P - 1513 Caustic Circulatin	39.9	33.2	33.2	33.2	
Motor & Pump P - 1514 Caustic Circulatin	38.6	31.9	31.9	31.9	
Motor & Pump P 120/121	34.5	27.8	27.8	27.8	
Motor & Pump P 1505 FRESH FEED PUMPS	40.3	33.6	33.6	33.6	
Motor & Pump P 1506 FRESH FEED PUMPS	41.9	35.2	35.2	35.2	
Motor & Pump P 1509 Chloride Injection P	41.9	35.3	35.3	35.3	
Motor & Pump P 1510 Chloride Injection P	42.0	35.3	35.3	35.3	
Motor & Pump P 1601 A	40.2	33.5	33.5	33.5	
Motor & Pump P 1601 B	36.0	29.3	29.3	29.3	
Motor & Pump P 1602 A	34.0	27.3	27.3	27.3	
Motor & Pump P 1602 B	32.5	25.9	25.9	25.9	
Motor & Pump P 211/212	42.9	36.2	36.2	36.2	
Motor & Pump P 215/214	42.5	35.8	35.8	35.8	
Motor & Pump P 216	51.5	44.8	44.8	44.8	
Motor & Pump P 217/218	42.4	35.8	35.8	35.8	
Motor & Pump P 300	39.1	32.4	32.4	32.4	
Motor & Pump P 301	44.9	38.3	38.3	38.3	
Motor & Pump P 302	38.3	31.6	31.6	31.6	
Motor & Pump P 303	38.1	31.4	31.4	31.4	
Motor & Pump P 305	38.2	31.5	31.5	31.5	
Motor & Pump P 306	52.3	45.6	45.6	45.6	
Motor & Pump P 307	46.9	40.2	40.2	40.2	
Motor & Pump P 309	37.8	31.1	31.1	31.1	
Motor & Pump P 312	50.2	43.5	43.5	43.5	
Motor & Pump P 313	50.3	43.6	43.6	43.6	
Motor & Pump P 315	51.8	45.1	45.1	45.1	
Motor & Pump P 316	51.6	44.9	44.9	44.9	
Motor & Pump P 317	51.4	44.7	44.7	44.7	
Motor & Pump P 318	49.1	42.4	42.4	42.4	
Motor & Pump P 319	49.0	42.4	42.4	42.4	
Motor & Pump P 327	41.4	34.7	34.7	34.7	
Motor & Pump P 328	50.3	43.6	43.6	43.6	
Motor & Pump P 329	49.6	42.9	42.9	42.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 451	41.6	34.9	34.9	34.9	
Motor & Pump P 453	48.5	41.8	41.8	41.8	
Motor & Pump P 454	47.6	41.0	41.0	41.0	
Motor & Pump P 457	48.6	41.9	41.9	41.9	
Motor & Pump P 458	43.6	37.0	37.0	37.0	
Motor & Pump P 459	47.6	40.9	40.9	40.9	
Motor & Pump P 56A/B	40.6	33.9	33.9	33.9	
Nitrogen Skid w Compressor 18-PK 1806	49.8	43.1	43.1	43.1	
P-060 A/B	26.5	19.8	19.8	19.8	
P-1101 A	41.3	34.6	34.6	34.6	
P-1103	41.2	34.5	34.5	34.5	
P-1105 A/B/C	41.7	35.0	35.0	35.0	
P-1800	40.5	33.9	33.9	33.9	
P-1801	37.6	30.9	30.9	30.9	
P-1802	37.6	30.9	30.9	30.9	
P-1803	44.6	38.0	38.0	38.0	
P-1804	39.7	33.1	33.1	33.1	
P-1805	39.7	33.1	33.1	33.1	
P-1806	45.9	39.2	39.2	39.2	
P-1809 A	34.1	27.4	27.4	27.4	
P-1810 A/B/C	39.2	32.5	32.5	32.5	
P-1811 A/B	45.6	38.9	38.9	38.9	
P-1811 A/B	40.0	33.3	33.3	33.3	
P-1847 A/B	49.3	42.6	42.6	42.6	
P-1849 A/B	48.8	42.1	42.1	42.1	
P-1853	51.3	44.6	44.6	44.6	
P-2 A/B	41.6	34.9	34.9	34.9	
P-251 A/B	51.4	44.7	44.7	44.7	
P-252 A/B	51.4	44.8	44.8	44.8	
P-253	51.0	44.3	44.3	44.3	
P-254 A/B	50.5	43.8	43.8	43.8	
P-255 A/B	50.8	44.1	44.1	44.1	
P-255 A/B	52.0	45.3	45.3	45.3	
P-256 A/B	51.1	44.4	44.4	44.4	
P-259 A/B	51.7	45.0	45.0	45.0	
P-260	52.6	46.0	46.0	46.0	
P-261 A/B	53.6	46.9	46.9	46.9	
P-262 A/B	53.4	46.7	46.7	46.7	
P-263 A/B	53.3	46.6	46.6	46.6	
P-270 A/B	50.3	43.6	43.6	43.6	
P-271 A/B	50.2	43.5	43.5	43.5	
P-272 A/B	50.1	43.5	43.5	43.5	
P-273 A/B	50.1	43.4	43.4	43.4	
P-275 A/B/C	49.4	42.7	42.7	42.7	
P-305	34.3	27.7	27.7	27.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-306	39.7	33.0	33.0	33.0	
P-309	34.6	27.9	27.9	27.9	
P-328	40.2	33.5	33.5	33.5	
P-329	40.0	33.3	33.3	33.3	
P-353	48.4	41.7	41.7	41.7	
P-358 A/B	37.4	30.7	30.7	30.7	
P-359 A/B	47.8	41.1	41.1	41.1	
P-360 A/B	48.1	41.4	41.4	41.4	
P-361A	41.9	35.2	35.2	35.2	
P-371 A/B	50.0	43.3	43.3	43.3	
P-373 A/B	52.3	45.6	45.6	45.6	
P-374 A/B	52.4	45.8	45.8	45.8	
P-375 A/B	51.1	44.4	44.4	44.4	
P-376	52.5	45.8	45.8	45.8	
P-376 A/B	52.2	45.5	45.5	45.5	
P-377	52.5	45.9	45.9	45.9	
P-50 A/B	24.4	17.7	17.7	17.7	
P-51 A/B	31.4	24.7	24.7	24.7	
P-63	42.3	35.7	35.7	35.7	
P-70 A/B	26.8	20.1	20.1	20.1	
P-73 A/B	40.6	33.9	33.9	33.9	
Piping Furnace Tanks	33.6	26.9	26.9	26.9	
Piping Hydrogen Tanks Compressor	45.2	38.5	38.5	38.5	
Piping Hydrogen Tanks Compressor w NC	54.9	48.2	48.2	48.2	
Piping Hydrogen Tanks Compressorw NC	49.9	43.2	43.2	43.2	
Pre-Treat Train-Pre-Treat Outside Area E	34.1	27.4	27.4	27.4	
Pre-Treat Train-Pre-Treat Outside Area N	46.2	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area N2	40.8	34.1	34.1	34.1	
Pre-Treat Train-Pre-Treat Outside Area S	51.0	44.3	44.3	44.3	
Pre-Treat Train-Pre-Treat Outside Area S2	50.0	43.4	43.4	43.4	
Pre-Treat Train-Pre-Treat Outside Area W1	43.4	36.7	36.7	36.7	
Pre-Treat Train-Pre-Treat Outside Area W2	52.7	46.0	46.0	46.0	
Pre-Treat Train-Pre-Treat Outside Area W3	48.1	41.4	41.4	41.4	
Pre-Treat Train-Roof 01	53.4	46.7	46.7	46.7	
PSA Pipe 3" Lagging	30.2	23.5	23.5	23.5	
PSA Skid Additional Piping w NC	56.2	49.5	49.5	49.5	
Reformer-Burner Reformer East	31.9	25.2	25.2	25.2	
Reformer-Burner Reformer North	45.8	39.1	39.1	39.1	
Reformer-Burner Reformer South	32.9	26.3	26.3	26.3	
Reformer-Burner Reformer West	50.2	43.5	43.5	43.5	
xxxx xxxx xxxx xxxx	32.1	25.9		25.9	
xxxx xxxx xxxx xxxx	31.5	25.2		25.2	
RFG A from battery to process	45.8	39.1	39.1	39.1	
RFG A from battery to process w NC	51.7	45.0	45.0	45.0	
xxxx xxxx xxxx xxxx	39.0	37.5	35.8	29.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	38.2	36.7	35.0	29.1	
Stack Noise	49.4	42.7	42.7	42.7	
Steam Turbine-Facade 01	49.4	42.7	42.7	42.7	
Steam Turbine-Facade 02	37.0	30.3	30.3	30.3	
Steam Turbine-Facade 03	47.8	41.2	41.2	41.2	
Steam Turbine-Facade 04	48.1	41.5	41.5	41.5	
Steam Turbine-Roof 01	47.4	40.7	40.7	40.7	
Tank Farm Pump 1	42.0	35.3	35.3	35.3	
Tank Farm Pump 2	45.1	38.4	38.4	38.4	
Tank Farm Pump 3	45.0	38.3	38.3	38.3	
UP Train Locomotive Delivery and Pickup 2022 2x	45.1	48.2			
XF-1502 Splitter Area 1	51.9	45.2	45.2	45.2	
XF-1502 Splitter Area 2	52.1	45.5	45.5	45.5	
XF-1504 Splitter Area 1	48.5	41.8	41.8	41.8	
XF-1504 Splitter Area 2	50.3	43.7	43.7	43.7	
XF - 1601	46.4	39.7	39.7	39.7	
XF - 1602	45.9	39.2	39.2	39.2	
XF 251, 250, 271, 270	50.1	43.4	43.4	43.4	
XF 260, 261A, 261 B	51.6	44.9	44.9	44.9	
XF 304, XF 321	57.9	51.2	51.2	51.2	
XF 313, XF 314	53.4	46.7	46.7	46.7	
XF 335-1, XF 335-2	57.4	50.7	50.7	50.7	
XF 353A/B	41.5	34.8	34.8	34.8	
XF 353A/B	41.9	35.3	35.3	35.3	
XF 354A/B	41.4	34.7	34.7	34.7	
XF 503	59.6	52.9	52.9	52.9	
XF Module 1510	56.2	49.5	49.5	49.5	
XF Module 1519	56.5	49.8	49.8	49.8	
Receiver SS-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.2 dB(A) Ld 7-19 dB(A) Leq,N 64.2 dB(A) Le 19-2					
ID Fan Motor	34.6	28.0	28.0	28.0	
18-1855 A/B	51.1	44.4	44.4	44.4	
18-1856 A/B	50.4	43.7	43.7	43.7	
18-1857 A/B	51.2	44.6	44.6	44.6	
18-1858 A/B	51.4	44.7	44.7	44.7	
18-PK 1802 Air Compressor Package	51.7	45.0	45.0	45.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.6	57.0	54.6		
Air Compressor C 1	53.7	47.0	47.0	47.0	
Air Compressor Pump	44.3	37.6	37.6	37.6	
Blower F 401	53.1	46.4	46.4	46.4	
Boiler Crude Unit-Heater Opening	47.1	40.4	40.4	40.4	
Boiler Feed Water Pump A	48.5	41.9	41.9	41.9	
Boiler Feed Water Pump B	48.1	41.4	41.4	41.4	
C-270 A	52.5	45.8	45.8	45.8	
C-270 B	51.7	45.0	45.0	45.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C-270 C	51.4	44.7	44.7	44.7	
C-301 Compressor	52.0	45.3	45.3	45.3	
C-301 Motor	54.8	48.2	48.2	48.2	
C-351 Compressor	53.8	47.1	47.1	47.1	
C-351 Motor	50.9	44.2	44.2	44.2	
C370 A Motor	49.1	42.4	42.4	42.4	
C370 B Motor	54.2	47.5	47.5	47.5	
C370A	49.7	43.0	43.0	43.0	
C370B	50.0	43.3	43.3	43.3	
Cars Pumping 6 times in during delivery	48.5	51.5			
Compressor House C301, C302, C 124-Comp House East 1	48.6	41.9	41.9	41.9	
Compressor House C301, C302, C 124-Comp House East 2	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House North	41.2	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House South 1	51.4	44.8	44.8	44.8	
Compressor House C301, C302, C 124-Comp House South 2	43.1	36.4	36.4	36.4	
Compressor House C301, C302, C 124-Comp House West	28.6	21.9	21.9	21.9	
xxxx xxxx xxxx xxxx	47.7	41.1	41.1	41.1	
Cooling Tower CT 510-CT 510 East Side	41.7	35.1	35.1	35.1	
Cooling Tower CT 510-CT 510 West Side	32.7	26.0	26.0	26.0	
Cooling Tower CT 511-CT 511 East Side	45.6	38.9	38.9	38.9	
Cooling Tower CT 511-CT 511 West Side	36.2	29.5	29.5	29.5	
Cooling Tower M 512	34.4	27.7	27.7	27.7	
Cooling Tower M 513	35.4	28.7	28.7	28.7	
Cooling Tower M 514	34.8	28.1	28.1	28.1	
xxxx xxxx xxxx xxxx	34.9	28.6		28.6	
xxxx xxxx xxxx xxxx	33.1	31.6	29.8	23.9	
xxxx xxxx xxxx xxxx	33.0	31.5	29.8	23.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	39.0	32.4	32.4	32.4	
FD Fan Assembly-FD Fan - East	33.8	27.1	27.1	27.1	
FD Fan Assembly-FD Fan - North	28.1	21.5	21.5	21.5	
FD Fan Assembly-FD Fan - Roof	33.4	26.8	26.8	26.8	
FD Fan Assembly-FD Fan - South	38.9	32.2	32.2	32.2	
FD Fan Assembly-FD Fan - West	33.5	26.8	26.8	26.8	
FD Motor	43.7	37.0	37.0	37.0	
Feed Compressor-A Compressor	49.2	42.5	42.5	42.5	
Feed Compressor-A Motor	49.0	42.4	42.4	42.4	
Feed Compressor-B Compressor	47.7	41.0	41.0	41.0	
Feed Compressor -B Motor	46.0	39.3	39.3	39.3	
H2S Compressor 18-C-271	52.7	46.0	46.0	46.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	36.8	30.1	30.1	30.1	
Heater # 5-Heater	39.2	32.6	32.6	32.6	
Heater # 5-Heater	35.4	28.7	28.7	28.7	
Hydro Heater H-402	45.2	38.6	38.6	38.6	
ID Fan-ID Fan - East (128302)	30.4	23.8	23.8	23.8	
ID Fan-ID Fan - East 1 (128306)	27.8	21.1	21.1	21.1	
ID Fan-ID Fan - North	33.0	26.4	26.4	26.4	
ID Fan-ID Fan - North 2	32.3	25.7	25.7	25.7	
ID Fan-ID Fan - South	41.1	34.4	34.4	34.4	
ID Fan-ID Fan - South 2	39.4	32.8	32.8	32.8	
ID Fan-ID Fan Roof 01 (128293)	40.4	33.7	33.7	33.7	
xxxx xxxx xxxx xxxx	26.1	24.6	22.9	17.0	
xxxx xxxx xxxx xxxx	26.1	24.6	22.9	17.0	
Motor & Pump P - 1502 Splitter Reflux Pu	29.8	23.2	23.2	23.2	
Motor & Pump P - 1503 Splitter Bottoms P	30.7	24.0	24.0	24.0	
Motor & Pump P - 1504 Splitter Bottoms P	31.0	24.3	24.3	24.3	
Motor & Pump P - 1507 Reactor Pump	36.4	29.8	29.8	29.8	
Motor & Pump P - 1508 Reactor Pump	36.1	29.4	29.4	29.4	
Motor & Pump P - 1511 Stabilizer Reflux	35.4	28.7	28.7	28.7	
Motor & Pump P - 1512 Stabilizer Reflux	29.1	22.4	22.4	22.4	
Motor & Pump P - 1513 Caustic Circulatin	31.3	24.7	24.7	24.7	
Motor & Pump P - 1514 Caustic Circulatin	29.1	22.4	22.4	22.4	
Motor & Pump P 120/121	26.8	20.2	20.2	20.2	
Motor & Pump P 1505 FRESH FEED PUMPS	35.3	28.6	28.6	28.6	
Motor & Pump P 1506 FRESH FEED PUMPS	37.7	31.0	31.0	31.0	
Motor & Pump P 1509 Chloride Injection P	27.3	20.7	20.7	20.7	
Motor & Pump P 1510 Chloride Injection P	27.4	20.7	20.7	20.7	
Motor & Pump P 1601 A	27.6	20.9	20.9	20.9	
Motor & Pump P 1601 B	27.4	20.8	20.8	20.8	
Motor & Pump P 1602 A	27.3	20.6	20.6	20.6	
Motor & Pump P 1602 B	29.8	23.2	23.2	23.2	
Motor & Pump P 211/212	37.4	30.8	30.8	30.8	
Motor & Pump P 215/214	34.7	28.0	28.0	28.0	
Motor & Pump P 216	45.3	38.6	38.6	38.6	
Motor & Pump P 217/218	36.9	30.2	30.2	30.2	
Motor & Pump P 300	29.3	22.6	22.6	22.6	
Motor & Pump P 301	34.2	27.5	27.5	27.5	
Motor & Pump P 302	29.7	23.0	23.0	23.0	
Motor & Pump P 303	30.0	23.4	23.4	23.4	
Motor & Pump P 305	30.8	24.2	24.2	24.2	
Motor & Pump P 306	46.6	39.9	39.9	39.9	
Motor & Pump P 307	38.4	31.7	31.7	31.7	
Motor & Pump P 309	31.0	24.4	24.4	24.4	
Motor & Pump P 312	48.7	42.1	42.1	42.1	
Motor & Pump P 313	48.5	41.8	41.8	41.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 315	49.5	42.8	42.8	42.8	
Motor & Pump P 316	49.7	43.1	43.1	43.1	
Motor & Pump P 317	49.9	43.3	43.3	43.3	
Motor & Pump P 318	46.7	40.0	40.0	40.0	
Motor & Pump P 319	46.8	40.2	40.2	40.2	
Motor & Pump P 327	41.1	34.4	34.4	34.4	
Motor & Pump P 328	42.9	36.2	36.2	36.2	
Motor & Pump P 329	43.5	36.9	36.9	36.9	
Motor & Pump P 451	36.8	30.1	30.1	30.1	
Motor & Pump P 453	40.4	33.7	33.7	33.7	
Motor & Pump P 454	40.3	33.7	33.7	33.7	
Motor & Pump P 457	39.6	32.9	32.9	32.9	
Motor & Pump P 458	39.7	33.0	33.0	33.0	
Motor & Pump P 459	40.6	33.9	33.9	33.9	
Motor & Pump P 56A/B	39.2	32.5	32.5	32.5	
Nitrogen Skid w Compressor 18-PK 1806	50.8	44.1	44.1	44.1	
P-060 A/B	25.0	18.3	18.3	18.3	
P-1101 A	43.3	36.6	36.6	36.6	
P-1103	43.2	36.6	36.6	36.6	
P-1105 A/B/C	43.7	37.0	37.0	37.0	
P-1800	38.3	31.6	31.6	31.6	
P-1801	35.7	29.1	29.1	29.1	
P-1802	32.4	25.8	25.8	25.8	
P-1803	44.3	37.6	37.6	37.6	
P-1804	39.6	32.9	32.9	32.9	
P-1805	39.4	32.8	32.8	32.8	
P-1806	44.7	38.0	38.0	38.0	
P-1809 A	35.4	28.8	28.8	28.8	
P-1810 A/B/C	41.1	34.5	34.5	34.5	
P-1811 A/B	44.0	37.3	37.3	37.3	
P-1811 A/B	40.8	34.1	34.1	34.1	
P-1847 A/B	47.9	41.2	41.2	41.2	
P-1849 A/B	47.8	41.2	41.2	41.2	
P-1853	50.0	43.4	43.4	43.4	
P-2 A/B	38.7	32.1	32.1	32.1	
P-251 A/B	51.7	45.0	45.0	45.0	
P-252 A/B	50.0	43.3	43.3	43.3	
P-253	49.7	43.0	43.0	43.0	
P-254 A/B	49.8	43.2	43.2	43.2	
P-255 A/B	51.3	44.6	44.6	44.6	
P-255 A/B	52.5	45.8	45.8	45.8	
P-256 A/B	51.5	44.8	44.8	44.8	
P-259 A/B	51.8	45.2	45.2	45.2	
P-260	54.1	47.5	47.5	47.5	
P-261 A/B	51.6	45.0	45.0	45.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-262 A/B	51.7	45.0	45.0	45.0	
P-263 A/B	51.9	45.2	45.2	45.2	
P-270 A/B	48.4	41.7	41.7	41.7	
P-271 A/B	49.3	42.7	42.7	42.7	
P-272 A/B	49.6	42.9	42.9	42.9	
P-273 A/B	48.6	41.9	41.9	41.9	
P-275 A/B/C	49.3	42.6	42.6	42.6	
P-305	33.9	27.2	27.2	27.2	
P-306	33.8	27.1	27.1	27.1	
P-309	34.0	27.3	27.3	27.3	
P-328	34.1	27.4	27.4	27.4	
P-329	34.0	27.3	27.3	27.3	
P-353	48.7	42.1	42.1	42.1	
P-358 A/B	41.8	35.1	35.1	35.1	
P-359 A/B	48.4	41.7	41.7	41.7	
P-360 A/B	47.9	41.2	41.2	41.2	
P-361A	44.9	38.2	38.2	38.2	
P-371 A/B	52.4	45.7	45.7	45.7	
P-373 A/B	53.5	46.9	46.9	46.9	
P-374 A/B	52.2	45.6	45.6	45.6	
P-375 A/B	52.3	45.6	45.6	45.6	
P-376	52.3	45.6	45.6	45.6	
P-376 A/B	53.5	46.9	46.9	46.9	
P-377	52.3	45.6	45.6	45.6	
P-50 A/B	26.1	19.4	19.4	19.4	
P-51 A/B	34.8	28.1	28.1	28.1	
P-63	36.0	29.4	29.4	29.4	
P-70 A/B	28.2	21.5	21.5	21.5	
P-73 A/B	34.1	27.4	27.4	27.4	
Piping Furnace Tanks	30.3	23.6	23.6	23.6	
Piping Hydrogen Tanks Compressor	40.9	34.2	34.2	34.2	
Piping Hydrogen Tanks Compressor w NC	51.3	44.6	44.6	44.6	
Piping Hydrogen Tanks Compressorw NC	46.1	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area E	34.1	27.4	27.4	27.4	
Pre-Treat Train-Pre-Treat Outside Area N	46.6	39.9	39.9	39.9	
Pre-Treat Train-Pre-Treat Outside Area N2	39.3	32.6	32.6	32.6	
Pre-Treat Train-Pre-Treat Outside Area S	48.9	42.3	42.3	42.3	
Pre-Treat Train-Pre-Treat Outside Area S2	48.9	42.2	42.2	42.2	
Pre-Treat Train-Pre-Treat Outside Area W1	41.8	35.1	35.1	35.1	
Pre-Treat Train-Pre-Treat Outside Area W2	52.3	45.6	45.6	45.6	
Pre-Treat Train-Pre-Treat Outside Area W3	46.7	40.0	40.0	40.0	
Pre-Treat Train-Roof 01	53.0	46.4	46.4	46.4	
PSA Pipe 3" Lagging	19.5	12.8	12.8	12.8	
PSA Skid Additional Piping w NC	52.8	46.2	46.2	46.2	
Reformer-Burner Reformer East	36.9	30.3	30.3	30.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Reformer-Burner Reformer North	43.8	37.1	37.1	37.1	
Reformer-Burner Reformer South	34.7	28.0	28.0	28.0	
Reformer-Burner Reformer West	47.9	41.3	41.3	41.3	
xxxx xxxx xxxx xxxx	32.0	25.7		25.7	
xxxx xxxx xxxx xxxx	32.1	25.8		25.8	
RFG A from battery to process	41.6	34.9	34.9	34.9	
RFG A from battery to process w NC	47.4	40.7	40.7	40.7	
xxxx xxxx xxxx xxxx	39.4	37.9	36.1	30.2	
xxxx xxxx xxxx xxxx	39.0	37.5	35.8	29.9	
Stack Noise	47.6	40.9	40.9	40.9	
Steam Turbine-Facade 01	49.0	42.3	42.3	42.3	
Steam Turbine-Facade 02	36.9	30.3	30.3	30.3	
Steam Turbine-Facade 03	45.0	38.4	38.4	38.4	
Steam Turbine-Facade 04	48.2	41.5	41.5	41.5	
Steam Turbine-Roof 01	46.3	39.6	39.6	39.6	
Tank Farm Pump 1	45.8	39.1	39.1	39.1	
Tank Farm Pump 2	45.2	38.5	38.5	38.5	
Tank Farm Pump 3	45.0	38.3	38.3	38.3	
UP Train Locomotive Delivery and Pickup 2022 2x	44.5	47.5			
XF-1502 Splitter Area 1	47.4	40.7	40.7	40.7	
XF-1502 Splitter Area 2	47.4	40.7	40.7	40.7	
XF-1504 Splitter Area 1	45.9	39.3	39.3	39.3	
XF-1504 Splitter Area 2	46.3	39.6	39.6	39.6	
XF - 1601	40.5	33.8	33.8	33.8	
XF - 1602	40.8	34.2	34.2	34.2	
XF 251, 250, 271, 270	48.9	42.2	42.2	42.2	
XF 260, 261A, 261 B	51.9	45.3	45.3	45.3	
XF 304, XF 321	52.1	45.4	45.4	45.4	
XF 313, XF 314	51.9	45.2	45.2	45.2	
XF 335-1, XF 335-2	52.5	45.9	45.9	45.9	
XF 353A/B	39.0	32.4	32.4	32.4	
XF 353A/B	40.0	33.3	33.3	33.3	
XF 354A/B	38.4	31.7	31.7	31.7	
XF 503	55.5	48.8	48.8	48.8	
XF Module 1510	50.2	43.5	43.5	43.5	
XF Module 1519	50.6	44.0	44.0	44.0	
Receiver SS-4 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.3 dB(A) Ld 7-19 dB(A) Leq,N 65.6 dB(A) Le 19-					
ID Fan Motor	35.1	28.4	28.4	28.4	
18-1855 A/B	51.5	44.9	44.9	44.9	
18-1856 A/B	50.9	44.2	44.2	44.2	
18-1857 A/B	51.7	45.0	45.0	45.0	
18-1858 A/B	51.8	45.1	45.1	45.1	
18-PK 1802 Air Compressor Package	55.4	48.7	48.7	48.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.7	57.1	54.7		

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	54.7	48.0	48.0	48.0	
Air Compressor Pump	45.6	38.9	38.9	38.9	
Blower F 401	54.9	48.2	48.2	48.2	
Boiler Crude Unit-Heater Opening	48.7	42.1	42.1	42.1	
Boiler Feed Water Pump A	48.4	41.8	41.8	41.8	
Boiler Feed Water Pump B	48.0	41.3	41.3	41.3	
C-270 A	53.5	46.8	46.8	46.8	
C-270 B	52.7	46.0	46.0	46.0	
C-270 C	52.3	45.7	45.7	45.7	
C-301 Compressor	52.5	45.8	45.8	45.8	
C-301 Motor	55.4	48.7	48.7	48.7	
C-351 Compressor	54.1	47.5	47.5	47.5	
C-351 Motor	51.5	44.9	44.9	44.9	
C370 A Motor	50.7	44.1	44.1	44.1	
C370 B Motor	56.6	50.0	50.0	50.0	
C370A	51.7	45.1	45.1	45.1	
C370B	51.9	45.3	45.3	45.3	
Cars Pumping 6 times in during delivery	49.4	52.4			
Compressor House C301, C302, C 124-Comp House East 1	50.4	43.8	43.8	43.8	
Compressor House C301, C302, C 124-Comp House East 2	47.4	40.7	40.7	40.7	
Compressor House C301, C302, C 124-Comp House North	42.2	35.5	35.5	35.5	
Compressor House C301, C302, C 124-Comp House South 1	52.6	45.9	45.9	45.9	
Compressor House C301, C302, C 124-Comp House South 2	45.6	38.9	38.9	38.9	
Compressor House C301, C302, C 124-Comp House West	29.8	23.1	23.1	23.1	
xxxx xxxx xxxx xxxx	47.8	41.1	41.1	41.1	
Cooling Tower CT 510-CT 510 East Side	43.8	37.2	37.2	37.2	
Cooling Tower CT 510-CT 510 West Side	35.4	28.7	28.7	28.7	
Cooling Tower CT 511-CT 511 East Side	46.4	39.7	39.7	39.7	
Cooling Tower CT 511-CT 511 West Side	37.5	30.8	30.8	30.8	
Cooling Tower M 512	34.5	27.9	27.9	27.9	
Cooling Tower M 513	35.6	28.9	28.9	28.9	
Cooling Tower M 514	34.9	28.2	28.2	28.2	
xxxx xxxx xxxx xxxx	34.6	28.4		28.4	
xxxx xxxx xxxx xxxx	34.2	32.6	30.9	25.0	
xxxx xxxx xxxx xxxx	34.1	32.6	30.9	25.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	41.9	35.2	35.2	35.2	
FD Fan Assembly-FD Fan - East	39.3	32.7	32.7	32.7	
FD Fan Assembly-FD Fan - North	32.6	26.0	26.0	26.0	
FD Fan Assembly-FD Fan - Roof	37.8	31.1	31.1	31.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FD Fan Assembly-FD Fan - South	39.8	33.2	33.2	33.2	
FD Fan Assembly-FD Fan - West	39.0	32.4	32.4	32.4	
FD Motor	43.6	36.9	36.9	36.9	
Feed Compressor-A Compressor	51.8	45.2	45.2	45.2	
Feed Compressor-A Motor	51.8	45.1	45.1	45.1	
Feed Compressor-B Compressor	49.9	43.2	43.2	43.2	
Feed Compressor -B Motor	48.6	41.9	41.9	41.9	
H2S Compressor 18-C-271	53.5	46.8	46.8	46.8	
Heater # 5-Heater	37.8	31.1	31.1	31.1	
Heater # 5-Heater	39.9	33.2	33.2	33.2	
Heater # 5-Heater	36.4	29.7	29.7	29.7	
Hydro Heater H-402	46.3	39.6	39.6	39.6	
ID Fan-ID Fan - East (128302)	32.6	25.9	25.9	25.9	
ID Fan-ID Fan - East 1 (128306)	29.6	22.9	22.9	22.9	
ID Fan-ID Fan - North	33.2	26.5	26.5	26.5	
ID Fan-ID Fan - North 2	34.2	27.5	27.5	27.5	
ID Fan-ID Fan - South	39.7	33.0	33.0	33.0	
ID Fan-ID Fan - South 2	38.6	31.9	31.9	31.9	
ID Fan-ID Fan Roof 01 (128293)	40.3	33.6	33.6	33.6	
xxxx xxxx xxxx xxxx	26.9	25.4	23.6	17.7	
xxxx xxxx xxxx xxxx	26.7	25.2	23.5	17.6	
Motor & Pump P - 1502 Splitter Reflux Pu	30.0	23.3	23.3	23.3	
Motor & Pump P - 1503 Splitter Bottoms P	31.0	24.3	24.3	24.3	
Motor & Pump P - 1504 Splitter Bottoms P	31.4	24.7	24.7	24.7	
Motor & Pump P - 1507 Reactor Pump	36.7	30.0	30.0	30.0	
Motor & Pump P - 1508 Reactor Pump	36.4	29.8	29.8	29.8	
Motor & Pump P - 1511 Stabilizer Reflux	35.6	28.9	28.9	28.9	
Motor & Pump P - 1512 Stabilizer Reflux	29.8	23.1	23.1	23.1	
Motor & Pump P - 1513 Caustic Circulatin	31.8	25.2	25.2	25.2	
Motor & Pump P - 1514 Caustic Circulatin	29.8	23.1	23.1	23.1	
Motor & Pump P 120/121	27.4	20.8	20.8	20.8	
Motor & Pump P 1505 FRESH FEED PUMPS	35.2	28.5	28.5	28.5	
Motor & Pump P 1506 FRESH FEED PUMPS	37.5	30.8	30.8	30.8	
Motor & Pump P 1509 Chloride Injection P	27.9	21.2	21.2	21.2	
Motor & Pump P 1510 Chloride Injection P	28.0	21.4	21.4	21.4	
Motor & Pump P 1601 A	27.7	21.1	21.1	21.1	
Motor & Pump P 1601 B	27.6	21.0	21.0	21.0	
Motor & Pump P 1602 A	27.5	20.8	20.8	20.8	
Motor & Pump P 1602 B	29.9	23.2	23.2	23.2	
Motor & Pump P 211/212	38.3	31.7	31.7	31.7	
Motor & Pump P 215/214	37.6	31.0	31.0	31.0	
Motor & Pump P 216	45.3	38.7	38.7	38.7	
Motor & Pump P 217/218	37.7	31.0	31.0	31.0	
Motor & Pump P 300	29.8	23.1	23.1	23.1	
Motor & Pump P 301	34.7	28.1	28.1	28.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 302	30.5	23.8	23.8	23.8	
Motor & Pump P 303	30.9	24.2	24.2	24.2	
Motor & Pump P 305	31.7	25.0	25.0	25.0	
Motor & Pump P 306	48.7	42.0	42.0	42.0	
Motor & Pump P 307	38.8	32.1	32.1	32.1	
Motor & Pump P 309	31.8	25.2	25.2	25.2	
Motor & Pump P 312	49.3	42.6	42.6	42.6	
Motor & Pump P 313	49.0	42.3	42.3	42.3	
Motor & Pump P 315	50.2	43.5	43.5	43.5	
Motor & Pump P 316	50.4	43.7	43.7	43.7	
Motor & Pump P 317	50.5	43.9	43.9	43.9	
Motor & Pump P 318	47.4	40.8	40.8	40.8	
Motor & Pump P 319	47.5	40.9	40.9	40.9	
Motor & Pump P 327	41.8	35.1	35.1	35.1	
Motor & Pump P 328	44.3	37.6	37.6	37.6	
Motor & Pump P 329	44.8	38.1	38.1	38.1	
Motor & Pump P 451	36.9	30.2	30.2	30.2	
Motor & Pump P 453	41.5	34.8	34.8	34.8	
Motor & Pump P 454	40.0	33.4	33.4	33.4	
Motor & Pump P 457	40.9	34.2	34.2	34.2	
Motor & Pump P 458	39.7	33.0	33.0	33.0	
Motor & Pump P 459	40.3	33.6	33.6	33.6	
Motor & Pump P 56A/B	40.7	34.0	34.0	34.0	
Nitrogen Skid w Compressor 18-PK 1806	48.6	41.9	41.9	41.9	
P-060 A/B	25.4	18.7	18.7	18.7	
P-1101 A	43.9	37.3	37.3	37.3	
P-1103	43.9	37.2	37.2	37.2	
P-1105 A/B/C	44.4	37.7	37.7	37.7	
P-1800	40.6	34.0	34.0	34.0	
P-1801	38.3	31.6	31.6	31.6	
P-1802	35.5	28.8	28.8	28.8	
P-1803	44.8	38.1	38.1	38.1	
P-1804	43.7	37.0	37.0	37.0	
P-1805	43.5	36.9	36.9	36.9	
P-1806	45.1	38.4	38.4	38.4	
P-1809 A	37.3	30.7	30.7	30.7	
P-1810 A/B/C	43.1	36.5	36.5	36.5	
P-1811 A/B	44.5	37.8	37.8	37.8	
P-1811 A/B	41.5	34.9	34.9	34.9	
P-1847 A/B	49.3	42.6	42.6	42.6	
P-1849 A/B	49.2	42.5	42.5	42.5	
P-1853	53.2	46.5	46.5	46.5	
P-2 A/B	40.9	34.3	34.3	34.3	
P-251 A/B	53.6	47.0	47.0	47.0	
P-252 A/B	52.3	45.6	45.6	45.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-253	51.8	45.1	45.1	45.1	
P-254 A/B	52.1	45.4	45.4	45.4	
P-255 A/B	53.0	46.3	46.3	46.3	
P-255 A/B	54.4	47.8	47.8	47.8	
P-256 A/B	53.4	46.7	46.7	46.7	
P-259 A/B	53.9	47.2	47.2	47.2	
P-260	55.6	49.0	49.0	49.0	
P-261 A/B	55.1	48.4	48.4	48.4	
P-262 A/B	54.9	48.3	48.3	48.3	
P-263 A/B	55.0	48.3	48.3	48.3	
P-270 A/B	50.3	43.6	43.6	43.6	
P-271 A/B	51.3	44.6	44.6	44.6	
P-272 A/B	51.7	45.0	45.0	45.0	
P-273 A/B	50.4	43.7	43.7	43.7	
P-275 A/B/C	51.1	44.4	44.4	44.4	
P-305	34.4	27.7	27.7	27.7	
P-306	34.7	28.0	28.0	28.0	
P-309	34.5	27.8	27.8	27.8	
P-328	38.7	32.0	32.0	32.0	
P-329	35.0	28.3	28.3	28.3	
P-353	49.9	43.2	43.2	43.2	
P-358 A/B	42.4	35.8	35.8	35.8	
P-359 A/B	50.3	43.6	43.6	43.6	
P-360 A/B	50.1	43.4	43.4	43.4	
P-361A	45.8	39.1	39.1	39.1	
P-371 A/B	52.1	45.5	45.5	45.5	
P-373 A/B	53.2	46.5	46.5	46.5	
P-374 A/B	51.9	45.3	45.3	45.3	
P-375 A/B	52.0	45.4	45.4	45.4	
P-376	52.0	45.3	45.3	45.3	
P-376 A/B	53.1	46.5	46.5	46.5	
P-377	52.0	45.3	45.3	45.3	
P-50 A/B	26.6	19.9	19.9	19.9	
P-51 A/B	35.3	28.6	28.6	28.6	
P-63	37.6	30.9	30.9	30.9	
P-70 A/B	28.4	21.7	21.7	21.7	
P-73 A/B	36.5	29.8	29.8	29.8	
Piping Furnace Tanks	33.5	26.8	26.8	26.8	
Piping Hydrogen Tanks Compressor	44.9	38.2	38.2	38.2	
Piping Hydrogen Tanks Compressor w NC	53.1	46.4	46.4	46.4	
Piping Hydrogen Tanks Compressorw NC	48.1	41.5	41.5	41.5	
Pre-Treat Train-Pre-Treat Outside Area E	35.1	28.4	28.4	28.4	
Pre-Treat Train-Pre-Treat Outside Area N	47.0	40.4	40.4	40.4	
Pre-Treat Train-Pre-Treat Outside Area N2	40.1	33.4	33.4	33.4	
Pre-Treat Train-Pre-Treat Outside Area S	50.3	43.7	43.7	43.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Pre-Treat Outside Area S2	50.5	43.8	43.8	43.8	
Pre-Treat Train-Pre-Treat Outside Area W1	42.7	36.0	36.0	36.0	
Pre-Treat Train-Pre-Treat Outside Area W2	53.0	46.4	46.4	46.4	
Pre-Treat Train-Pre-Treat Outside Area W3	47.9	41.2	41.2	41.2	
Pre-Treat Train-Roof 01	54.0	47.4	47.4	47.4	
PSA Pipe 3" Lagging	20.1	13.4	13.4	13.4	
PSA Skid Additional Piping w NC	53.8	47.1	47.1	47.1	
Reformer-Burner Reformer East	40.5	33.8	33.8	33.8	
Reformer-Burner Reformer North	45.1	38.4	38.4	38.4	
Reformer-Burner Reformer South	35.8	29.1	29.1	29.1	
Reformer-Burner Reformer West	49.5	42.8	42.8	42.8	
xxxx xxxx xxxx xxxx	32.0	25.7		25.7	
xxxx xxxx xxxx xxxx	32.1	25.8		25.8	
RFG A from battery to process	45.6	38.9	38.9	38.9	
RFG A from battery to process w NC	49.3	42.6	42.6	42.6	
xxxx xxxx xxxx xxxx	41.0	39.5	37.8	31.9	
xxxx xxxx xxxx xxxx	40.4	38.9	37.2	31.3	
Stack Noise	49.0	42.3	42.3	42.3	
Steam Turbine-Facade 01	48.8	42.2	42.2	42.2	
Steam Turbine-Facade 02	37.4	30.8	30.8	30.8	
Steam Turbine-Facade 03	45.4	38.7	38.7	38.7	
Steam Turbine-Facade 04	48.0	41.3	41.3	41.3	
Steam Turbine-Roof 01	46.7	40.0	40.0	40.0	
Tank Farm Pump 1	46.2	39.5	39.5	39.5	
Tank Farm Pump 2	45.6	39.0	39.0	39.0	
Tank Farm Pump 3	45.5	38.8	38.8	38.8	
UP Train Locomotive Delivery and Pickup 2022 2x	44.6	47.7			
XF-1502 Splitter Area 1	45.9	39.2	39.2	39.2	
XF-1502 Splitter Area 2	46.2	39.6	39.6	39.6	
XF-1504 Splitter Area 1	47.3	40.7	40.7	40.7	
XF-1504 Splitter Area 2	47.7	41.0	41.0	41.0	
XF - 1601	43.5	36.8	36.8	36.8	
XF - 1602	43.7	37.0	37.0	37.0	
XF 251, 250, 271, 270	51.3	44.6	44.6	44.6	
XF 260, 261A, 261 B	53.1	46.4	46.4	46.4	
XF 304, XF 321	54.3	47.6	47.6	47.6	
XF 313, XF 314	53.7	47.0	47.0	47.0	
XF 335-1, XF 335-2	54.5	47.9	47.9	47.9	
XF 353A/B	42.2	35.5	35.5	35.5	
XF 353A/B	42.7	36.1	36.1	36.1	
XF 354A/B	40.1	33.4	33.4	33.4	
XF 503	57.4	50.7	50.7	50.7	
XF Module 1510	51.1	44.5	44.5	44.5	
XF Module 1519	51.6	44.9	44.9	44.9	
Receiver SS-4 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.7 dB(A) Ld 7-19 dB(A) Leq,N 66.0 dB(A) Le 19-					

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan Motor	37.5	30.8	30.8	30.8	
18-1855 A/B	51.6	44.9	44.9	44.9	
18-1856 A/B	51.0	44.3	44.3	44.3	
18-1857 A/B	51.8	45.1	45.1	45.1	
18-1858 A/B	51.8	45.1	45.1	45.1	
18-PK 1802 Air Compressor Package	55.1	48.5	48.5	48.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	55.8	57.1	54.7		
Air Compressor C 1	54.5	47.8	47.8	47.8	
Air Compressor Pump	47.1	40.4	40.4	40.4	
Blower F 401	55.3	48.6	48.6	48.6	
Boiler Crude Unit-Heater Opening	49.3	42.6	42.6	42.6	
Boiler Feed Water Pump A	48.5	41.8	41.8	41.8	
Boiler Feed Water Pump B	48.1	41.4	41.4	41.4	
C-270 A	54.0	47.3	47.3	47.3	
C-270 B	53.3	46.6	46.6	46.6	
C-270 C	52.6	46.0	46.0	46.0	
C-301 Compressor	52.9	46.2	46.2	46.2	
C-301 Motor	55.5	48.8	48.8	48.8	
C-351 Compressor	54.3	47.7	47.7	47.7	
C-351 Motor	51.8	45.2	45.2	45.2	
C370 A Motor	52.7	46.0	46.0	46.0	
C370 B Motor	58.8	52.2	52.2	52.2	
C370A	53.3	46.6	46.6	46.6	
C370B	54.0	47.3	47.3	47.3	
Cars Pumping 6 times in during delivery	49.6	52.6			
Compressor House C301, C302, C 124-Comp House East 1	51.8	45.1	45.1	45.1	
Compressor House C301, C302, C 124-Comp House East 2	48.5	41.8	41.8	41.8	
Compressor House C301, C302, C 124-Comp House North	44.1	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House South 1	52.9	46.3	46.3	46.3	
Compressor House C301, C302, C 124-Comp House South 2	46.4	39.7	39.7	39.7	
Compressor House C301, C302, C 124-Comp House West	31.1	24.4	24.4	24.4	
xxxx xxxx xxxx xxxx	48.2	41.5	41.5	41.5	
Cooling Tower CT 510-CT 510 East Side	44.5	37.9	37.9	37.9	
Cooling Tower CT 510-CT 510 West Side	36.5	29.8	29.8	29.8	
Cooling Tower CT 511-CT 511 East Side	46.4	39.7	39.7	39.7	
Cooling Tower CT 511-CT 511 West Side	37.9	31.2	31.2	31.2	
Cooling Tower M 512	37.9	31.3	31.3	31.3	
Cooling Tower M 513	37.8	31.1	31.1	31.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	39.9	33.2	33.2	33.2	
xxxx xxxx xxxx xxxx	34.7	28.4		28.4	
xxxx xxxx xxxx xxxx	35.8	34.3	32.6	26.7	
xxxx xxxx xxxx xxxx	35.9	34.4	32.6	26.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.8	37.1	37.1	37.1	
FD Fan Assembly-FD Fan - East	42.0	35.3	35.3	35.3	
FD Fan Assembly-FD Fan - North	32.7	26.0	26.0	26.0	
FD Fan Assembly-FD Fan - Roof	38.0	31.3	31.3	31.3	
FD Fan Assembly-FD Fan - South	40.0	33.4	33.4	33.4	
FD Fan Assembly-FD Fan - West	40.7	34.0	34.0	34.0	
FD Motor	46.3	39.7	39.7	39.7	
Feed Compressor-A Compressor	52.9	46.2	46.2	46.2	
Feed Compressor-A Motor	52.9	46.2	46.2	46.2	
Feed Compressor-B Compressor	51.7	45.0	45.0	45.0	
Feed Compressor -B Motor	50.6	43.9	43.9	43.9	
H2S Compressor 18-C-271	53.6	46.9	46.9	46.9	
Heater # 5-Heater	38.0	31.3	31.3	31.3	
Heater # 5-Heater	40.2	33.5	33.5	33.5	
Heater # 5-Heater	36.6	29.9	29.9	29.9	
Hydro Heater H-402	46.5	39.8	39.8	39.8	
ID Fan-ID Fan - East (128302)	34.5	27.8	27.8	27.8	
ID Fan-ID Fan - East 1 (128306)	29.9	23.3	23.3	23.3	
ID Fan-ID Fan - North	33.9	27.2	27.2	27.2	
ID Fan-ID Fan - North 2	34.6	28.0	28.0	28.0	
ID Fan-ID Fan - South	38.7	32.1	32.1	32.1	
ID Fan-ID Fan - South 2	37.9	31.3	31.3	31.3	
ID Fan-ID Fan Roof 01 (128293)	40.4	33.8	33.8	33.8	
xxxx xxxx xxxx xxxx	28.0	26.5	24.8	18.9	
xxxx xxxx xxxx xxxx	27.8	26.3	24.6	18.7	
Motor & Pump P - 1502 Splitter Reflux Pu	31.7	25.0	25.0	25.0	
Motor & Pump P - 1503 Splitter Bottoms P	32.8	26.1	26.1	26.1	
Motor & Pump P - 1504 Splitter Bottoms P	33.3	26.6	26.6	26.6	
Motor & Pump P - 1507 Reactor Pump	42.4	35.7	35.7	35.7	
Motor & Pump P - 1508 Reactor Pump	42.3	35.6	35.6	35.6	
Motor & Pump P - 1511 Stabilizer Reflux	37.8	31.1	31.1	31.1	
Motor & Pump P - 1512 Stabilizer Reflux	30.4	23.7	23.7	23.7	
Motor & Pump P - 1513 Caustic Circulatin	34.0	27.3	27.3	27.3	
Motor & Pump P - 1514 Caustic Circulatin	30.5	23.8	23.8	23.8	
Motor & Pump P 120/121	28.7	22.0	22.0	22.0	
Motor & Pump P 1505 FRESH FEED PUMPS	38.4	31.7	31.7	31.7	
Motor & Pump P 1506 FRESH FEED PUMPS	41.3	34.6	34.6	34.6	
Motor & Pump P 1509 Chloride Injection P	28.1	21.4	21.4	21.4	
Motor & Pump P 1510 Chloride Injection P	28.2	21.6	21.6	21.6	
Motor & Pump P 1601 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.0	21.3	21.3	21.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1602 A	27.9	21.2	21.2	21.2	
Motor & Pump P 1602 B	29.3	22.6	22.6	22.6	
Motor & Pump P 211/212	39.4	32.8	32.8	32.8	
Motor & Pump P 215/214	38.6	31.9	31.9	31.9	
Motor & Pump P 216	45.8	39.1	39.1	39.1	
Motor & Pump P 217/218	38.6	31.9	31.9	31.9	
Motor & Pump P 300	29.2	22.5	22.5	22.5	
Motor & Pump P 301	34.1	27.5	27.5	27.5	
Motor & Pump P 302	30.3	23.6	23.6	23.6	
Motor & Pump P 303	31.1	24.4	24.4	24.4	
Motor & Pump P 305	31.8	25.1	25.1	25.1	
Motor & Pump P 306	49.1	42.5	42.5	42.5	
Motor & Pump P 307	38.7	32.0	32.0	32.0	
Motor & Pump P 309	32.1	25.4	25.4	25.4	
Motor & Pump P 312	49.2	42.5	42.5	42.5	
Motor & Pump P 313	48.9	42.3	42.3	42.3	
Motor & Pump P 315	50.1	43.4	43.4	43.4	
Motor & Pump P 316	50.2	43.5	43.5	43.5	
Motor & Pump P 317	50.3	43.6	43.6	43.6	
Motor & Pump P 318	47.4	40.7	40.7	40.7	
Motor & Pump P 319	47.5	40.8	40.8	40.8	
Motor & Pump P 327	41.3	34.6	34.6	34.6	
Motor & Pump P 328	44.9	38.2	38.2	38.2	
Motor & Pump P 329	45.6	38.9	38.9	38.9	
Motor & Pump P 451	37.1	30.5	30.5	30.5	
Motor & Pump P 453	42.0	35.3	35.3	35.3	
Motor & Pump P 454	40.0	33.3	33.3	33.3	
Motor & Pump P 457	41.4	34.7	34.7	34.7	
Motor & Pump P 458	39.7	33.1	33.1	33.1	
Motor & Pump P 459	40.3	33.7	33.7	33.7	
Motor & Pump P 56A/B	41.3	34.6	34.6	34.6	
Nitrogen Skid w Compressor 18-PK 1806	51.4	44.7	44.7	44.7	
P-060 A/B	27.5	20.9	20.9	20.9	
P-1101 A	43.9	37.2	37.2	37.2	
P-1103	43.8	37.2	37.2	37.2	
P-1105 A/B/C	44.4	37.7	37.7	37.7	
P-1800	41.7	35.1	35.1	35.1	
P-1801	39.1	32.4	32.4	32.4	
P-1802	37.7	31.1	31.1	31.1	
P-1803	44.1	37.5	37.5	37.5	
P-1804	43.3	36.6	36.6	36.6	
P-1805	43.1	36.5	36.5	36.5	
P-1806	44.5	37.9	37.9	37.9	
P-1809 A	38.2	31.5	31.5	31.5	
P-1810 A/B/C	42.9	36.2	36.2	36.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1811 A/B	43.9	37.2	37.2	37.2	
P-1811 A/B	41.2	34.5	34.5	34.5	
P-1847 A/B	49.0	42.3	42.3	42.3	
P-1849 A/B	48.9	42.2	42.2	42.2	
P-1853	53.3	46.7	46.7	46.7	
P-2 A/B	41.6	35.0	35.0	35.0	
P-251 A/B	53.7	47.0	47.0	47.0	
P-252 A/B	52.4	45.7	45.7	45.7	
P-253	51.9	45.2	45.2	45.2	
P-254 A/B	52.2	45.5	45.5	45.5	
P-255 A/B	53.0	46.4	46.4	46.4	
P-255 A/B	54.5	47.8	47.8	47.8	
P-256 A/B	53.4	46.7	46.7	46.7	
P-259 A/B	54.0	47.3	47.3	47.3	
P-260	55.7	49.0	49.0	49.0	
P-261 A/B	55.2	48.5	48.5	48.5	
P-262 A/B	55.1	48.4	48.4	48.4	
P-263 A/B	55.1	48.4	48.4	48.4	
P-270 A/B	49.9	43.2	43.2	43.2	
P-271 A/B	51.4	44.7	44.7	44.7	
P-272 A/B	51.7	45.1	45.1	45.1	
P-273 A/B	50.1	43.4	43.4	43.4	
P-275 A/B/C	51.1	44.4	44.4	44.4	
P-305	34.3	27.6	27.6	27.6	
P-306	35.0	28.3	28.3	28.3	
P-309	34.5	27.8	27.8	27.8	
P-328	38.6	31.9	31.9	31.9	
P-329	38.4	31.8	31.8	31.8	
P-353	50.0	43.3	43.3	43.3	
P-358 A/B	41.8	35.1	35.1	35.1	
P-359 A/B	49.6	43.0	43.0	43.0	
P-360 A/B	49.5	42.8	42.8	42.8	
P-361A	45.1	38.4	38.4	38.4	
P-371 A/B	52.2	45.5	45.5	45.5	
P-373 A/B	53.1	46.5	46.5	46.5	
P-374 A/B	51.9	45.3	45.3	45.3	
P-375 A/B	52.0	45.4	45.4	45.4	
P-376	52.0	45.3	45.3	45.3	
P-376 A/B	53.1	46.4	46.4	46.4	
P-377	52.0	45.3	45.3	45.3	
P-50 A/B	25.9	19.2	19.2	19.2	
P-51 A/B	34.6	27.9	27.9	27.9	
P-63	38.0	31.3	31.3	31.3	
P-70 A/B	29.5	22.8	22.8	22.8	
P-73 A/B	37.9	31.2	31.2	31.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Piping Furnace Tanks	33.8	27.1	27.1	27.1	
Piping Hydrogen Tanks Compressor	45.2	38.6	38.6	38.6	
Piping Hydrogen Tanks Compressor w NC	53.9	47.2	47.2	47.2	
Piping Hydrogen Tanks Compressorw NC	49.0	42.3	42.3	42.3	
Pre-Treat Train-Pre-Treat Outside Area E	35.3	28.6	28.6	28.6	
Pre-Treat Train-Pre-Treat Outside Area N	47.0	40.4	40.4	40.4	
Pre-Treat Train-Pre-Treat Outside Area N2	40.0	33.4	33.4	33.4	
Pre-Treat Train-Pre-Treat Outside Area S	50.7	44.0	44.0	44.0	
Pre-Treat Train-Pre-Treat Outside Area S2	50.7	44.0	44.0	44.0	
Pre-Treat Train-Pre-Treat Outside Area W1	42.7	36.1	36.1	36.1	
Pre-Treat Train-Pre-Treat Outside Area W2	53.4	46.8	46.8	46.8	
Pre-Treat Train-Pre-Treat Outside Area W3	48.1	41.4	41.4	41.4	
Pre-Treat Train-Roof 01	54.3	47.6	47.6	47.6	
PSA Pipe 3" Lagging	20.2	13.5	13.5	13.5	
PSA Skid Additional Piping w NC	54.5	47.9	47.9	47.9	
Reformer-Burner Reformer East	40.7	34.1	34.1	34.1	
Reformer-Burner Reformer North	45.8	39.1	39.1	39.1	
Reformer-Burner Reformer South	35.9	29.2	29.2	29.2	
Reformer-Burner Reformer West	50.1	43.4	43.4	43.4	
xxxx xxxx xxxx xxxx	32.1	25.8		25.8	
xxxx xxxx xxxx xxxx	32.7	26.4		26.4	
RFG A from battery to process	46.1	39.4	39.4	39.4	
RFG A from battery to process w NC	50.3	43.6	43.6	43.6	
xxxx xxxx xxxx xxxx	42.0	40.5	38.8	32.9	
xxxx xxxx xxxx xxxx	41.4	39.9	38.2	32.3	
Stack Noise	49.6	42.9	42.9	42.9	
Steam Turbine-Facade 01	48.9	42.2	42.2	42.2	
Steam Turbine-Facade 02	37.5	30.9	30.9	30.9	
Steam Turbine-Facade 03	45.6	39.0	39.0	39.0	
Steam Turbine-Facade 04	48.1	41.4	41.4	41.4	
Steam Turbine-Roof 01	46.9	40.2	40.2	40.2	
Tank Farm Pump 1	45.8	39.1	39.1	39.1	
Tank Farm Pump 2	45.5	38.8	38.8	38.8	
Tank Farm Pump 3	45.4	38.7	38.7	38.7	
UP Train Locomotive Delivery and Pickup 2022 2x	44.7	47.7			
XF-1502 Splitter Area 1	48.3	41.6	41.6	41.6	
XF-1502 Splitter Area 2	48.6	42.0	42.0	42.0	
XF-1504 Splitter Area 1	47.6	41.0	41.0	41.0	
XF-1504 Splitter Area 2	47.9	41.2	41.2	41.2	
XF - 1601	44.9	38.2	38.2	38.2	
XF - 1602	45.0	38.3	38.3	38.3	
XF 251, 250, 271, 270	51.5	44.9	44.9	44.9	
XF 260, 261A, 261 B	53.3	46.6	46.6	46.6	
XF 304, XF 321	56.2	49.5	49.5	49.5	
XF 313, XF 314	54.2	47.6	47.6	47.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	55.7	49.0	49.0	49.0	
XF 353A/B	42.7	36.0	36.0	36.0	
XF 353A/B	43.2	36.5	36.5	36.5	
XF 354A/B	40.8	34.1	34.1	34.1	
XF 503	57.9	51.2	51.2	51.2	
XF Module 1510	50.5	43.9	43.9	43.9	
XF Module 1519	50.8	44.2	44.2	44.2	
Receiver SS-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.5 dB(A) Ld 7-19 dB(A) Leq,N 64.8 dB(A) Le 19-2					
ID Fan Motor	37.1	30.4	30.4	30.4	
18-1855 A/B	51.9	45.2	45.2	45.2	
18-1856 A/B	51.7	45.1	45.1	45.1	
18-1857 A/B	52.0	45.4	45.4	45.4	
18-1858 A/B	51.9	45.2	45.2	45.2	
18-PK 1802 Air Compressor Package	54.1	47.4	47.4	47.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	54.5	55.9	53.5		
Air Compressor C 1	54.4	47.8	47.8	47.8	
Air Compressor Pump	41.5	34.8	34.8	34.8	
Blower F 401	56.0	49.3	49.3	49.3	
Boiler Crude Unit-Heater Opening	46.4	39.7	39.7	39.7	
Boiler Feed Water Pump A	44.8	38.1	38.1	38.1	
Boiler Feed Water Pump B	46.5	39.8	39.8	39.8	
C-270 A	52.3	45.6	45.6	45.6	
C-270 B	52.4	45.8	45.8	45.8	
C-270 C	51.3	44.6	44.6	44.6	
C-301 Compressor	52.1	45.4	45.4	45.4	
C-301 Motor	53.5	46.8	46.8	46.8	
C-351 Compressor	52.4	45.7	45.7	45.7	
C-351 Motor	53.5	46.8	46.8	46.8	
C370 A Motor	48.9	42.3	42.3	42.3	
C370 B Motor	53.5	46.9	46.9	46.9	
C370A	49.4	42.7	42.7	42.7	
C370B	49.4	42.7	42.7	42.7	
Cars Pumping 6 times in during delivery	47.9	50.9			
Compressor House C301, C302, C 124-Comp House East 1	46.8	40.1	40.1	40.1	
Compressor House C301, C302, C 124-Comp House East 2	43.9	37.2	37.2	37.2	
Compressor House C301, C302, C 124-Comp House North	41.7	35.1	35.1	35.1	
Compressor House C301, C302, C 124-Comp House South 1	49.5	42.8	42.8	42.8	
Compressor House C301, C302, C 124-Comp House South 2	44.3	37.6	37.6	37.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	25.3	18.6	18.6	18.6	
xxxx xxxx xxxx xxxx	47.3	40.6	40.6	40.6	
Cooling Tower CT 510-CT 510 East Side	39.5	32.8	32.8	32.8	
Cooling Tower CT 510-CT 510 West Side	23.8	17.2	17.2	17.2	
Cooling Tower CT 511-CT 511 East Side	54.4	47.7	47.7	47.7	
Cooling Tower CT 511-CT 511 West Side	26.6	19.9	19.9	19.9	
Cooling Tower M 512	32.4	25.7	25.7	25.7	
Cooling Tower M 513	33.4	26.7	26.7	26.7	
Cooling Tower M 514	31.7	25.0	25.0	25.0	
xxxx xxxx xxxx xxxx	29.7	23.4		23.4	
xxxx xxxx xxxx xxxx	31.3	29.7	28.0	22.1	
xxxx xxxx xxxx xxxx	31.1	29.6	27.9	22.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	41.7	35.0	35.0	35.0	
FD Fan Assembly-FD Fan - East	41.0	34.3	34.3	34.3	
FD Fan Assembly-FD Fan - North	35.5	28.8	28.8	28.8	
FD Fan Assembly-FD Fan - Roof	39.7	33.0	33.0	33.0	
FD Fan Assembly-FD Fan - South	42.2	35.6	35.6	35.6	
FD Fan Assembly-FD Fan - West	44.4	37.7	37.7	37.7	
FD Motor	47.9	41.3	41.3	41.3	
Feed Compressor-A Compressor	46.3	39.6	39.6	39.6	
Feed Compressor-A Motor	45.9	39.2	39.2	39.2	
Feed Compressor-B Compressor	46.2	39.5	39.5	39.5	
Feed Compressor -B Motor	46.6	39.9	39.9	39.9	
H2S Compressor 18-C-271	51.2	44.5	44.5	44.5	
Heater # 5-Heater	46.0	39.3	39.3	39.3	
Heater # 5-Heater	46.2	39.6	39.6	39.6	
Heater # 5-Heater	46.1	39.4	39.4	39.4	
Hydro Heater H-402	44.9	38.3	38.3	38.3	
ID Fan-ID Fan - East (128302)	35.4	28.7	28.7	28.7	
ID Fan-ID Fan - East 1 (128306)	30.8	24.1	24.1	24.1	
ID Fan-ID Fan - North	35.5	28.9	28.9	28.9	
ID Fan-ID Fan - North 2	35.2	28.5	28.5	28.5	
ID Fan-ID Fan - South	40.1	33.4	33.4	33.4	
ID Fan-ID Fan - South 2	39.2	32.5	32.5	32.5	
ID Fan-ID Fan Roof 01 (128293)	40.0	33.3	33.3	33.3	
xxxx xxxx xxxx xxxx	27.5	26.0	24.2	18.3	
xxxx xxxx xxxx xxxx	27.6	26.1	24.4	18.4	
Motor & Pump P - 1502 Splitter Reflux Pu	27.6	20.9	20.9	20.9	
Motor & Pump P - 1503 Splitter Bottoms P	29.2	22.5	22.5	22.5	
Motor & Pump P - 1504 Splitter Bottoms P	30.0	23.3	23.3	23.3	
Motor & Pump P - 1507 Reactor Pump	29.9	23.3	23.3	23.3	
Motor & Pump P - 1508 Reactor Pump	30.1	23.5	23.5	23.5	
Motor & Pump P - 1511 Stabilizer Reflux	27.8	21.1	21.1	21.1	
Motor & Pump P - 1512 Stabilizer Reflux	30.3	23.6	23.6	23.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	29.7	23.0	23.0	23.0	
Motor & Pump P - 1514 Caustic Circulatin	32.3	25.7	25.7	25.7	
Motor & Pump P 120/121	25.6	18.9	18.9	18.9	
Motor & Pump P 1505 FRESH FEED PUMPS	25.2	18.6	18.6	18.6	
Motor & Pump P 1506 FRESH FEED PUMPS	29.5	22.9	22.9	22.9	
Motor & Pump P 1509 Chloride Injection P	36.3	29.6	29.6	29.6	
Motor & Pump P 1510 Chloride Injection P	36.0	29.4	29.4	29.4	
Motor & Pump P 1601 A	28.0	21.3	21.3	21.3	
Motor & Pump P 1601 B	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 A	28.3	21.6	21.6	21.6	
Motor & Pump P 1602 B	29.1	22.4	22.4	22.4	
Motor & Pump P 211/212	31.8	25.1	25.1	25.1	
Motor & Pump P 215/214	37.7	31.0	31.0	31.0	
Motor & Pump P 216	43.4	36.8	36.8	36.8	
Motor & Pump P 217/218	31.8	25.2	25.2	25.2	
Motor & Pump P 300	34.7	28.0	28.0	28.0	
Motor & Pump P 301	41.2	34.6	34.6	34.6	
Motor & Pump P 302	31.6	25.0	25.0	25.0	
Motor & Pump P 303	31.2	24.5	24.5	24.5	
Motor & Pump P 305	32.0	25.3	25.3	25.3	
Motor & Pump P 306	44.7	38.0	38.0	38.0	
Motor & Pump P 307	37.4	30.8	30.8	30.8	
Motor & Pump P 309	31.6	24.9	24.9	24.9	
Motor & Pump P 312	45.6	38.9	38.9	38.9	
Motor & Pump P 313	46.2	39.5	39.5	39.5	
Motor & Pump P 315	47.3	40.6	40.6	40.6	
Motor & Pump P 316	47.9	41.2	41.2	41.2	
Motor & Pump P 317	48.4	41.7	41.7	41.7	
Motor & Pump P 318	44.3	37.7	37.7	37.7	
Motor & Pump P 319	44.1	37.4	37.4	37.4	
Motor & Pump P 327	40.4	33.7	33.7	33.7	
Motor & Pump P 328	43.5	36.8	36.8	36.8	
Motor & Pump P 329	42.9	36.2	36.2	36.2	
Motor & Pump P 451	35.3	28.6	28.6	28.6	
Motor & Pump P 453	43.8	37.2	37.2	37.2	
Motor & Pump P 454	33.5	26.9	26.9	26.9	
Motor & Pump P 457	43.9	37.2	37.2	37.2	
Motor & Pump P 458	39.7	33.1	33.1	33.1	
Motor & Pump P 459	33.9	27.2	27.2	27.2	
Motor & Pump P 56A/B	39.6	33.0	33.0	33.0	
Nitrogen Skid w Compressor 18-PK 1806	39.8	33.2	33.2	33.2	
P-060 A/B	25.0	18.3	18.3	18.3	
P-1101 A	39.7	33.0	33.0	33.0	
P-1103	39.6	32.9	32.9	32.9	
P-1105 A/B/C	40.1	33.4	33.4	33.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1800	45.0	38.4	38.4	38.4	
P-1801	42.1	35.4	35.4	35.4	
P-1802	42.0	35.4	35.4	35.4	
P-1803	45.1	38.5	38.5	38.5	
P-1804	37.2	30.6	30.6	30.6	
P-1805	38.3	31.7	31.7	31.7	
P-1806	45.4	38.7	38.7	38.7	
P-1809 A	42.5	35.8	35.8	35.8	
P-1810 A/B/C	41.3	34.6	34.6	34.6	
P-1811 A/B	45.1	38.4	38.4	38.4	
P-1811 A/B	45.2	38.5	38.5	38.5	
P-1847 A/B	49.2	42.5	42.5	42.5	
P-1849 A/B	49.2	42.5	42.5	42.5	
P-1853	55.2	48.5	48.5	48.5	
P-2 A/B	47.1	40.4	40.4	40.4	
P-251 A/B	53.9	47.2	47.2	47.2	
P-252 A/B	53.4	46.8	46.8	46.8	
P-253	52.9	46.2	46.2	46.2	
P-254 A/B	54.4	47.8	47.8	47.8	
P-255 A/B	53.8	47.2	47.2	47.2	
P-255 A/B	54.1	47.5	47.5	47.5	
P-256 A/B	53.9	47.2	47.2	47.2	
P-259 A/B	54.1	47.4	47.4	47.4	
P-260	54.5	47.9	47.9	47.9	
P-261 A/B	52.9	46.2	46.2	46.2	
P-262 A/B	55.6	48.9	48.9	48.9	
P-263 A/B	56.0	49.3	49.3	49.3	
P-270 A/B	52.6	45.9	45.9	45.9	
P-271 A/B	53.3	46.6	46.6	46.6	
P-272 A/B	53.4	46.7	46.7	46.7	
P-273 A/B	52.7	46.1	46.1	46.1	
P-275 A/B/C	52.5	45.8	45.8	45.8	
P-305	39.2	32.6	32.6	32.6	
P-306	54.2	47.5	47.5	47.5	
P-309	40.2	33.5	33.5	33.5	
P-328	53.8	47.1	47.1	47.1	
P-329	54.0	47.3	47.3	47.3	
P-353	39.7	33.0	33.0	33.0	
P-358 A/B	51.8	45.1	45.1	45.1	
P-359 A/B	51.8	45.1	45.1	45.1	
P-360 A/B	45.9	39.2	39.2	39.2	
P-361A	45.2	38.5	38.5	38.5	
P-371 A/B	48.3	41.6	41.6	41.6	
P-373 A/B	43.1	36.4	36.4	36.4	
P-374 A/B	43.7	37.0	37.0	37.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-375 A/B	48.6	41.9	41.9	41.9	
P-376	46.1	39.4	39.4	39.4	
P-376 A/B	41.9	35.3	35.3	35.3	
P-377	47.3	40.7	40.7	40.7	
P-50 A/B	28.2	21.6	21.6	21.6	
P-51 A/B	32.0	25.3	25.3	25.3	
P-63	49.2	42.6	42.6	42.6	
P-70 A/B	25.8	19.2	19.2	19.2	
P-73 A/B	47.2	40.5	40.5	40.5	
Piping Furnace Tanks	29.7	23.0	23.0	23.0	
Piping Hydrogen Tanks Compressor	40.2	33.5	33.5	33.5	
Piping Hydrogen Tanks Compressor w NC	47.9	41.3	41.3	41.3	
Piping Hydrogen Tanks Compressorw NC	43.0	36.4	36.4	36.4	
Pre-Treat Train-Pre-Treat Outside Area E	35.7	29.0	29.0	29.0	
Pre-Treat Train-Pre-Treat Outside Area N	47.8	41.2	41.2	41.2	
Pre-Treat Train-Pre-Treat Outside Area N2	37.7	31.1	31.1	31.1	
Pre-Treat Train-Pre-Treat Outside Area S	49.1	42.5	42.5	42.5	
Pre-Treat Train-Pre-Treat Outside Area S2	43.8	37.1	37.1	37.1	
Pre-Treat Train-Pre-Treat Outside Area W1	38.9	32.2	32.2	32.2	
Pre-Treat Train-Pre-Treat Outside Area W2	51.9	45.3	45.3	45.3	
Pre-Treat Train-Pre-Treat Outside Area W3	44.7	38.1	38.1	38.1	
Pre-Treat Train-Roof 01	54.4	47.7	47.7	47.7	
PSA Pipe 3" Lagging	14.0	7.3	7.3	7.3	
PSA Skid Additional Piping w NC	49.4	42.7	42.7	42.7	
Reformer-Burner Reformer East	28.9	22.2	22.2	22.2	
Reformer-Burner Reformer North	43.5	36.8	36.8	36.8	
Reformer-Burner Reformer South	38.6	32.0	32.0	32.0	
Reformer-Burner Reformer West	47.9	41.3	41.3	41.3	
xxxx xxxx xxxx xxxx	31.3	25.1		25.1	
xxxx xxxx xxxx xxxx	35.5	29.2		29.2	
RFG A from battery to process	40.8	34.1	34.1	34.1	
RFG A from battery to process w NC	44.0	37.3	37.3	37.3	
xxxx xxxx xxxx xxxx	44.2	42.7	41.0	35.1	
xxxx xxxx xxxx xxxx	44.0	42.5	40.8	34.9	
Stack Noise	47.6	40.9	40.9	40.9	
Steam Turbine-Facade 01	40.5	33.8	33.8	33.8	
Steam Turbine-Facade 02	40.1	33.4	33.4	33.4	
Steam Turbine-Facade 03	36.5	29.9	29.9	29.9	
Steam Turbine-Facade 04	27.5	20.9	20.9	20.9	
Steam Turbine-Roof 01	44.7	38.0	38.0	38.0	
Tank Farm Pump 1	46.2	39.6	39.6	39.6	
Tank Farm Pump 2	46.6	39.9	39.9	39.9	
Tank Farm Pump 3	46.5	39.8	39.8	39.8	
UP Train Locomotive Delivery and Pickup 2022 2x	41.6	44.6			
XF-1502 Splitter Area 1	34.9	28.2	28.2	28.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 2	32.8	26.2	26.2	26.2	
XF-1504 Splitter Area 1	44.5	37.8	37.8	37.8	
XF-1504 Splitter Area 2	44.2	37.5	37.5	37.5	
XF - 1601	42.3	35.7	35.7	35.7	
XF - 1602	42.4	35.8	35.8	35.8	
XF 251, 250, 271, 270	51.5	44.8	44.8	44.8	
XF 260, 261A, 261 B	53.2	46.6	46.6	46.6	
XF 304, XF 321	51.1	44.4	44.4	44.4	
XF 313, XF 314	49.9	43.2	43.2	43.2	
XF 335-1, XF 335-2	52.2	45.5	45.5	45.5	
XF 353A/B	40.7	34.0	34.0	34.0	
XF 353A/B	42.0	35.4	35.4	35.4	
XF 354A/B	40.2	33.5	33.5	33.5	
XF 503	52.1	45.4	45.4	45.4	
XF Module 1510	45.8	39.1	39.1	39.1	
XF Module 1519	46.3	39.6	39.6	39.6	
Receiver SS-5 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.3 dB(A)	Ld 7-19 dB(A)	Leq,N 65.7 dB(A)	Le 19-
ID Fan Motor	37.6	31.0	31.0	31.0	
18-1855 A/B	51.7	45.1	45.1	45.1	
18-1856 A/B	51.5	44.8	44.8	44.8	
18-1857 A/B	51.9	45.3	45.3	45.3	
18-1858 A/B	52.1	45.4	45.4	45.4	
18-PK 1802 Air Compressor Package	55.9	49.3	49.3	49.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	54.7	56.1	53.7		
Air Compressor C 1	55.5	48.8	48.8	48.8	
Air Compressor Pump	42.4	35.7	35.7	35.7	
Blower F 401	56.4	49.8	49.8	49.8	
Boiler Crude Unit-Heater Opening	47.2	40.5	40.5	40.5	
Boiler Feed Water Pump A	44.9	38.3	38.3	38.3	
Boiler Feed Water Pump B	46.4	39.8	39.8	39.8	
C-270 A	53.4	46.8	46.8	46.8	
C-270 B	53.6	46.9	46.9	46.9	
C-270 C	52.2	45.5	45.5	45.5	
C-301 Compressor	53.1	46.4	46.4	46.4	
C-301 Motor	54.2	47.5	47.5	47.5	
C-351 Compressor	54.4	47.7	47.7	47.7	
C-351 Motor	53.9	47.2	47.2	47.2	
C370 A Motor	49.9	43.3	43.3	43.3	
C370 B Motor	54.3	47.7	47.7	47.7	
C370A	50.6	44.0	44.0	44.0	
C370B	50.5	43.8	43.8	43.8	
Cars Pumping 6 times in during delivery	48.8	51.8			
Compressor House C301, C302, C 124-Comp House East 1	47.8	41.1	41.1	41.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	45.0	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	42.2	35.6	35.6	35.6	
Compressor House C301, C302, C 124-Comp House South 1	50.3	43.7	43.7	43.7	
Compressor House C301, C302, C 124-Comp House South 2	45.5	38.8	38.8	38.8	
Compressor House C301, C302, C 124-Comp House West	26.1	19.5	19.5	19.5	
xxxx xxxx xxxx xxxx	47.4	40.7	40.7	40.7	
Cooling Tower CT 510-CT 510 East Side	40.7	34.1	34.1	34.1	
Cooling Tower CT 510-CT 510 West Side	24.9	18.2	18.2	18.2	
Cooling Tower CT 511-CT 511 East Side	55.7	49.0	49.0	49.0	
Cooling Tower CT 511-CT 511 West Side	27.7	21.0	21.0	21.0	
Cooling Tower M 512	32.4	25.7	25.7	25.7	
Cooling Tower M 513	33.4	26.7	26.7	26.7	
Cooling Tower M 514	31.7	25.0	25.0	25.0	
xxxx xxxx xxxx xxxx	28.6	22.4		22.4	
xxxx xxxx xxxx xxxx	32.1	30.6	28.9	23.0	
xxxx xxxx xxxx xxxx	32.1	30.6	28.9	23.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.4	36.8	36.8	36.8	
FD Fan Assembly-FD Fan - East	42.4	35.8	35.8	35.8	
FD Fan Assembly-FD Fan - North	38.2	31.5	31.5	31.5	
FD Fan Assembly-FD Fan - Roof	41.6	35.0	35.0	35.0	
FD Fan Assembly-FD Fan - South	40.8	34.1	34.1	34.1	
FD Fan Assembly-FD Fan - West	42.9	36.3	36.3	36.3	
FD Motor	47.5	40.8	40.8	40.8	
Feed Compressor-A Compressor	48.5	41.8	41.8	41.8	
Feed Compressor-A Motor	48.2	41.5	41.5	41.5	
Feed Compressor-B Compressor	48.3	41.6	41.6	41.6	
Feed Compressor -B Motor	48.3	41.6	41.6	41.6	
H2S Compressor 18-C-271	51.2	44.5	44.5	44.5	
Heater # 5-Heater	47.3	40.7	40.7	40.7	
Heater # 5-Heater	47.6	40.9	40.9	40.9	
Heater # 5-Heater	47.2	40.5	40.5	40.5	
Hydro Heater H-402	46.5	39.9	39.9	39.9	
ID Fan-ID Fan - East (128302)	34.7	28.0	28.0	28.0	
ID Fan-ID Fan - East 1 (128306)	29.8	23.1	23.1	23.1	
ID Fan-ID Fan - North	34.5	27.9	27.9	27.9	
ID Fan-ID Fan - North 2	34.3	27.7	27.7	27.7	
ID Fan-ID Fan - South	41.7	35.0	35.0	35.0	
ID Fan-ID Fan - South 2	40.4	33.8	33.8	33.8	
ID Fan-ID Fan Roof 01 (128293)	40.0	33.4	33.4	33.4	
xxxx xxxx xxxx xxxx	28.9	27.4	25.6	19.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	28.8	27.3	25.6	19.7	
Motor & Pump P - 1502 Splitter Reflux Pu	27.9	21.2	21.2	21.2	
Motor & Pump P - 1503 Splitter Bottoms P	29.6	23.0	23.0	23.0	
Motor & Pump P - 1504 Splitter Bottoms P	30.4	23.7	23.7	23.7	
Motor & Pump P - 1507 Reactor Pump	30.3	23.6	23.6	23.6	
Motor & Pump P - 1508 Reactor Pump	30.5	23.9	23.9	23.9	
Motor & Pump P - 1511 Stabilizer Reflux	28.4	21.7	21.7	21.7	
Motor & Pump P - 1512 Stabilizer Reflux	32.7	26.1	26.1	26.1	
Motor & Pump P - 1513 Caustic Circulatin	29.8	23.2	23.2	23.2	
Motor & Pump P - 1514 Caustic Circulatin	32.8	26.1	26.1	26.1	
Motor & Pump P 120/121	26.1	19.4	19.4	19.4	
Motor & Pump P 1505 FRESH FEED PUMPS	25.3	18.6	18.6	18.6	
Motor & Pump P 1506 FRESH FEED PUMPS	29.9	23.2	23.2	23.2	
Motor & Pump P 1509 Chloride Injection P	36.2	29.5	29.5	29.5	
Motor & Pump P 1510 Chloride Injection P	35.7	29.1	29.1	29.1	
Motor & Pump P 1601 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.2	21.5	21.5	21.5	
Motor & Pump P 1602 A	28.4	21.7	21.7	21.7	
Motor & Pump P 1602 B	29.1	22.4	22.4	22.4	
Motor & Pump P 211/212	32.3	25.6	25.6	25.6	
Motor & Pump P 215/214	38.3	31.7	31.7	31.7	
Motor & Pump P 216	43.7	37.0	37.0	37.0	
Motor & Pump P 217/218	32.3	25.6	25.6	25.6	
Motor & Pump P 300	35.2	28.6	28.6	28.6	
Motor & Pump P 301	41.5	34.8	34.8	34.8	
Motor & Pump P 302	32.4	25.7	25.7	25.7	
Motor & Pump P 303	31.9	25.3	25.3	25.3	
Motor & Pump P 305	32.7	26.1	26.1	26.1	
Motor & Pump P 306	45.9	39.2	39.2	39.2	
Motor & Pump P 307	37.2	30.5	30.5	30.5	
Motor & Pump P 309	32.4	25.7	25.7	25.7	
Motor & Pump P 312	45.8	39.2	39.2	39.2	
Motor & Pump P 313	46.5	39.8	39.8	39.8	
Motor & Pump P 315	48.5	41.8	41.8	41.8	
Motor & Pump P 316	49.1	42.4	42.4	42.4	
Motor & Pump P 317	49.3	42.6	42.6	42.6	
Motor & Pump P 318	45.6	39.0	39.0	39.0	
Motor & Pump P 319	45.1	38.5	38.5	38.5	
Motor & Pump P 327	40.7	34.0	34.0	34.0	
Motor & Pump P 328	44.2	37.6	37.6	37.6	
Motor & Pump P 329	43.4	36.8	36.8	36.8	
Motor & Pump P 451	35.2	28.6	28.6	28.6	
Motor & Pump P 453	43.9	37.2	37.2	37.2	
Motor & Pump P 454	33.8	27.1	27.1	27.1	
Motor & Pump P 457	43.9	37.2	37.2	37.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 458	40.7	34.0	34.0	34.0	
Motor & Pump P 459	34.1	27.5	27.5	27.5	
Motor & Pump P 56A/B	40.0	33.3	33.3	33.3	
Nitrogen Skid w Compressor 18-PK 1806	40.8	34.2	34.2	34.2	
P-060 A/B	24.8	18.1	18.1	18.1	
P-1101 A	40.7	34.0	34.0	34.0	
P-1103	40.5	33.9	33.9	33.9	
P-1105 A/B/C	41.0	34.4	34.4	34.4	
P-1800	46.1	39.4	39.4	39.4	
P-1801	42.3	35.6	35.6	35.6	
P-1802	42.3	35.7	35.7	35.7	
P-1803	46.0	39.3	39.3	39.3	
P-1804	45.0	38.3	38.3	38.3	
P-1805	45.4	38.7	38.7	38.7	
P-1806	45.4	38.7	38.7	38.7	
P-1809 A	43.9	37.3	37.3	37.3	
P-1810 A/B/C	45.0	38.3	38.3	38.3	
P-1811 A/B	45.0	38.4	38.4	38.4	
P-1811 A/B	45.0	38.3	38.3	38.3	
P-1847 A/B	49.2	42.5	42.5	42.5	
P-1849 A/B	49.2	42.5	42.5	42.5	
P-1853	56.4	49.8	49.8	49.8	
P-2 A/B	47.3	40.6	40.6	40.6	
P-251 A/B	54.7	48.0	48.0	48.0	
P-252 A/B	53.8	47.1	47.1	47.1	
P-253	53.1	46.4	46.4	46.4	
P-254 A/B	54.6	47.9	47.9	47.9	
P-255 A/B	54.3	47.6	47.6	47.6	
P-255 A/B	55.2	48.6	48.6	48.6	
P-256 A/B	54.6	47.9	47.9	47.9	
P-259 A/B	54.9	48.3	48.3	48.3	
P-260	55.7	49.1	49.1	49.1	
P-261 A/B	55.3	48.6	48.6	48.6	
P-262 A/B	56.8	50.1	50.1	50.1	
P-263 A/B	57.0	50.3	50.3	50.3	
P-270 A/B	52.2	45.5	45.5	45.5	
P-271 A/B	53.4	46.7	46.7	46.7	
P-272 A/B	53.6	47.0	47.0	47.0	
P-273 A/B	52.4	45.7	45.7	45.7	
P-275 A/B/C	52.5	45.8	45.8	45.8	
P-305	39.2	32.5	32.5	32.5	
P-306	54.2	47.6	47.6	47.6	
P-309	40.1	33.4	33.4	33.4	
P-328	53.8	47.1	47.1	47.1	
P-329	54.0	47.3	47.3	47.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-353	40.0	33.3	33.3	33.3	
P-358 A/B	51.5	44.9	44.9	44.9	
P-359 A/B	51.6	44.9	44.9	44.9	
P-360 A/B	45.4	38.7	38.7	38.7	
P-361A	45.0	38.3	38.3	38.3	
P-371 A/B	50.1	43.5	43.5	43.5	
P-373 A/B	45.1	38.4	38.4	38.4	
P-374 A/B	45.4	38.7	38.7	38.7	
P-375 A/B	50.2	43.5	43.5	43.5	
P-376	46.8	40.1	40.1	40.1	
P-376 A/B	44.5	37.8	37.8	37.8	
P-377	47.8	41.1	41.1	41.1	
P-50 A/B	28.1	21.4	21.4	21.4	
P-51 A/B	32.0	25.3	25.3	25.3	
P-63	49.3	42.6	42.6	42.6	
P-70 A/B	25.6	19.0	19.0	19.0	
P-73 A/B	47.3	40.7	40.7	40.7	
Piping Furnace Tanks	32.7	26.0	26.0	26.0	
Piping Hydrogen Tanks Compressor	44.1	37.4	37.4	37.4	
Piping Hydrogen Tanks Compressor w NC	51.9	45.2	45.2	45.2	
Piping Hydrogen Tanks Compressorw NC	47.0	40.3	40.3	40.3	
Pre-Treat Train-Pre-Treat Outside Area E	36.7	30.0	30.0	30.0	
Pre-Treat Train-Pre-Treat Outside Area N	48.2	41.5	41.5	41.5	
Pre-Treat Train-Pre-Treat Outside Area N2	38.2	31.5	31.5	31.5	
Pre-Treat Train-Pre-Treat Outside Area S	50.4	43.7	43.7	43.7	
Pre-Treat Train-Pre-Treat Outside Area S2	45.0	38.4	38.4	38.4	
Pre-Treat Train-Pre-Treat Outside Area W1	39.3	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area W2	52.9	46.2	46.2	46.2	
Pre-Treat Train-Pre-Treat Outside Area W3	46.3	39.6	39.6	39.6	
Pre-Treat Train-Roof 01	55.2	48.5	48.5	48.5	
PSA Pipe 3" Lagging	14.5	7.8	7.8	7.8	
PSA Skid Additional Piping w NC	53.3	46.6	46.6	46.6	
Reformer-Burner Reformer East	29.5	22.9	22.9	22.9	
Reformer-Burner Reformer North	44.6	37.9	37.9	37.9	
Reformer-Burner Reformer South	39.3	32.6	32.6	32.6	
Reformer-Burner Reformer West	49.1	42.4	42.4	42.4	
xxxx xxxx xxxx xxxx	31.1	24.8		24.8	
xxxx xxxx xxxx xxxx	36.1	29.8		29.8	
RFG A from battery to process	44.8	38.1	38.1	38.1	
RFG A from battery to process w NC	47.9	41.2	41.2	41.2	
xxxx xxxx xxxx xxxx	45.9	44.4	42.7	36.8	
xxxx xxxx xxxx xxxx	45.8	44.3	42.6	36.7	
Stack Noise	48.9	42.3	42.3	42.3	
Steam Turbine-Facade 01	42.2	35.6	35.6	35.6	
Steam Turbine-Facade 02	41.5	34.8	34.8	34.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Steam Turbine-Facade 03	37.5	30.8	30.8	30.8	
Steam Turbine-Facade 04	28.8	22.2	22.2	22.2	
Steam Turbine-Roof 01	45.3	38.6	38.6	38.6	
Tank Farm Pump 1	47.2	40.5	40.5	40.5	
Tank Farm Pump 2	46.4	39.7	39.7	39.7	
Tank Farm Pump 3	46.3	39.6	39.6	39.6	
UP Train Locomotive Delivery and Pickup 2022 2x	41.8	44.8			
XF-1502 Splitter Area 1	36.3	29.6	29.6	29.6	
XF-1502 Splitter Area 2	34.1	27.4	27.4	27.4	
XF-1504 Splitter Area 1	45.5	38.8	38.8	38.8	
XF-1504 Splitter Area 2	45.2	38.5	38.5	38.5	
XF - 1601	44.1	37.4	37.4	37.4	
XF - 1602	44.1	37.5	37.5	37.5	
XF 251, 250, 271, 270	52.6	45.9	45.9	45.9	
XF 260, 261A, 261 B	53.8	47.2	47.2	47.2	
XF 304, XF 321	53.7	47.0	47.0	47.0	
XF 313, XF 314	51.3	44.6	44.6	44.6	
XF 335-1, XF 335-2	54.0	47.4	47.4	47.4	
XF 353A/B	42.4	35.7	35.7	35.7	
XF 353A/B	44.3	37.6	37.6	37.6	
XF 354A/B	41.9	35.2	35.2	35.2	
XF 503	54.0	47.4	47.4	47.4	
XF Module 1510	48.0	41.3	41.3	41.3	
XF Module 1519	48.5	41.8	41.8	41.8	
Receiver SS-5 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 66.0 dB(A) Le 19-					
ID Fan Motor	38.2	31.6	31.6	31.6	
18-1855 A/B	51.7	45.1	45.1	45.1	
18-1856 A/B	51.5	44.8	44.8	44.8	
18-1857 A/B	51.9	45.3	45.3	45.3	
18-1858 A/B	52.1	45.4	45.4	45.4	
18-PK 1802 Air Compressor Package	56.0	49.4	49.4	49.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	54.8	56.2	53.7		
Air Compressor C 1	55.8	49.1	49.1	49.1	
Air Compressor Pump	43.4	36.7	36.7	36.7	
Blower F 401	56.7	50.1	50.1	50.1	
Boiler Crude Unit-Heater Opening	47.3	40.6	40.6	40.6	
Boiler Feed Water Pump A	45.3	38.6	38.6	38.6	
Boiler Feed Water Pump B	46.6	40.0	40.0	40.0	
C-270 A	54.1	47.4	47.4	47.4	
C-270 B	54.2	47.5	47.5	47.5	
C-270 C	52.7	46.0	46.0	46.0	
C-301 Compressor	53.6	47.0	47.0	47.0	
C-301 Motor	54.3	47.7	47.7	47.7	
C-351 Compressor	54.9	48.3	48.3	48.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C-351 Motor	54.2	47.5	47.5	47.5	
C370 A Motor	51.9	45.2	45.2	45.2	
C370 B Motor	56.8	50.2	50.2	50.2	
C370A	52.3	45.6	45.6	45.6	
C370B	52.3	45.7	45.7	45.7	
Cars Pumping 6 times in during delivery	49.0	52.0			
Compressor House C301, C302, C 124-Comp House East 1	48.4	41.7	41.7	41.7	
Compressor House C301, C302, C 124-Comp House East 2	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House North	44.2	37.5	37.5	37.5	
Compressor House C301, C302, C 124-Comp House South 1	51.1	44.5	44.5	44.5	
Compressor House C301, C302, C 124-Comp House South 2	46.3	39.6	39.6	39.6	
Compressor House C301, C302, C 124-Comp House West	27.7	21.0	21.0	21.0	
xxxx xxxx xxxx xxxx	47.7	41.0	41.0	41.0	
Cooling Tower CT 510-CT 510 East Side	41.3	34.6	34.6	34.6	
Cooling Tower CT 510-CT 510 West Side	25.3	18.6	18.6	18.6	
Cooling Tower CT 511-CT 511 East Side	55.9	49.2	49.2	49.2	
Cooling Tower CT 511-CT 511 West Side	28.1	21.4	21.4	21.4	
Cooling Tower M 512	32.6	25.9	25.9	25.9	
Cooling Tower M 513	33.6	27.0	27.0	27.0	
Cooling Tower M 514	32.0	25.3	25.3	25.3	
xxxx xxxx xxxx xxxx	28.8	22.5		22.5	
xxxx xxxx xxxx xxxx	33.5	32.0	30.3	24.4	
xxxx xxxx xxxx xxxx	33.5	32.0	30.3	24.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	44.1	37.4	37.4	37.4	
FD Fan Assembly-FD Fan - East	43.8	37.1	37.1	37.1	
FD Fan Assembly-FD Fan - North	41.0	34.3	34.3	34.3	
FD Fan Assembly-FD Fan - Roof	41.9	35.2	35.2	35.2	
FD Fan Assembly-FD Fan - South	39.5	32.8	32.8	32.8	
FD Fan Assembly-FD Fan - West	42.1	35.4	35.4	35.4	
FD Motor	47.1	40.4	40.4	40.4	
Feed Compressor-A Compressor	51.0	44.3	44.3	44.3	
Feed Compressor-A Motor	50.4	43.8	43.8	43.8	
Feed Compressor-B Compressor	50.6	43.9	43.9	43.9	
Feed Compressor -B Motor	49.5	42.9	42.9	42.9	
H2S Compressor 18-C-271	50.6	43.9	43.9	43.9	
Heater # 5-Heater	47.6	40.9	40.9	40.9	
Heater # 5-Heater	47.8	41.2	41.2	41.2	
Heater # 5-Heater	47.3	40.6	40.6	40.6	
Hydro Heater H-402	46.6	39.9	39.9	39.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan-ID Fan - East (128302)	34.7	28.0	28.0	28.0	
ID Fan-ID Fan - East 1 (128306)	29.8	23.1	23.1	23.1	
ID Fan-ID Fan - North	34.8	28.1	28.1	28.1	
ID Fan-ID Fan - North 2	34.4	27.7	27.7	27.7	
ID Fan-ID Fan - South	43.2	36.6	36.6	36.6	
ID Fan-ID Fan - South 2	41.8	35.2	35.2	35.2	
ID Fan-ID Fan Roof 01 (128293)	40.3	33.7	33.7	33.7	
xxxx xxxx xxxx xxxx	30.5	29.0	27.3	21.4	
xxxx xxxx xxxx xxxx	30.4	28.9	27.1	21.2	
Motor & Pump P - 1502 Splitter Reflux Pu	27.9	21.2	21.2	21.2	
Motor & Pump P - 1503 Splitter Bottoms P	29.6	22.9	22.9	22.9	
Motor & Pump P - 1504 Splitter Bottoms P	30.3	23.7	23.7	23.7	
Motor & Pump P - 1507 Reactor Pump	30.2	23.5	23.5	23.5	
Motor & Pump P - 1508 Reactor Pump	30.5	23.8	23.8	23.8	
Motor & Pump P - 1511 Stabilizer Reflux	28.4	21.7	21.7	21.7	
Motor & Pump P - 1512 Stabilizer Reflux	32.7	26.0	26.0	26.0	
Motor & Pump P - 1513 Caustic Circulatin	29.4	22.7	22.7	22.7	
Motor & Pump P - 1514 Caustic Circulatin	32.8	26.1	26.1	26.1	
Motor & Pump P 120/121	28.7	22.0	22.0	22.0	
Motor & Pump P 1505 FRESH FEED PUMPS	25.0	18.3	18.3	18.3	
Motor & Pump P 1506 FRESH FEED PUMPS	29.8	23.1	23.1	23.1	
Motor & Pump P 1509 Chloride Injection P	35.8	29.2	29.2	29.2	
Motor & Pump P 1510 Chloride Injection P	35.1	28.5	28.5	28.5	
Motor & Pump P 1601 A	30.3	23.6	23.6	23.6	
Motor & Pump P 1601 B	30.3	23.6	23.6	23.6	
Motor & Pump P 1602 A	30.4	23.7	23.7	23.7	
Motor & Pump P 1602 B	31.0	24.3	24.3	24.3	
Motor & Pump P 211/212	34.6	27.9	27.9	27.9	
Motor & Pump P 215/214	38.6	31.9	31.9	31.9	
Motor & Pump P 216	43.7	37.1	37.1	37.1	
Motor & Pump P 217/218	34.0	27.3	27.3	27.3	
Motor & Pump P 300	35.3	28.7	28.7	28.7	
Motor & Pump P 301	41.1	34.4	34.4	34.4	
Motor & Pump P 302	33.0	26.3	26.3	26.3	
Motor & Pump P 303	32.8	26.1	26.1	26.1	
Motor & Pump P 305	33.5	26.8	26.8	26.8	
Motor & Pump P 306	45.2	38.5	38.5	38.5	
Motor & Pump P 307	39.5	32.8	32.8	32.8	
Motor & Pump P 309	33.2	26.5	26.5	26.5	
Motor & Pump P 312	45.4	38.7	38.7	38.7	
Motor & Pump P 313	46.2	39.5	39.5	39.5	
Motor & Pump P 315	48.1	41.4	41.4	41.4	
Motor & Pump P 316	48.7	42.0	42.0	42.0	
Motor & Pump P 317	49.0	42.3	42.3	42.3	
Motor & Pump P 318	45.1	38.5	38.5	38.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 319	44.8	38.2	38.2	38.2	
Motor & Pump P 327	40.3	33.6	33.6	33.6	
Motor & Pump P 328	44.6	38.0	38.0	38.0	
Motor & Pump P 329	42.9	36.2	36.2	36.2	
Motor & Pump P 451	35.2	28.5	28.5	28.5	
Motor & Pump P 453	44.0	37.3	37.3	37.3	
Motor & Pump P 454	35.5	28.8	28.8	28.8	
Motor & Pump P 457	44.0	37.4	37.4	37.4	
Motor & Pump P 458	40.8	34.1	34.1	34.1	
Motor & Pump P 459	36.0	29.4	29.4	29.4	
Motor & Pump P 56A/B	40.1	33.4	33.4	33.4	
Nitrogen Skid w Compressor 18-PK 1806	41.5	34.8	34.8	34.8	
P-060 A/B	24.1	17.5	17.5	17.5	
P-1101 A	41.7	35.0	35.0	35.0	
P-1103	41.6	34.9	34.9	34.9	
P-1105 A/B/C	42.0	35.3	35.3	35.3	
P-1800	45.6	38.9	38.9	38.9	
P-1801	41.8	35.1	35.1	35.1	
P-1802	41.7	35.0	35.0	35.0	
P-1803	45.2	38.5	38.5	38.5	
P-1804	44.8	38.1	38.1	38.1	
P-1805	45.0	38.3	38.3	38.3	
P-1806	44.7	38.1	38.1	38.1	
P-1809 A	44.2	37.5	37.5	37.5	
P-1810 A/B/C	44.9	38.2	38.2	38.2	
P-1811 A/B	44.4	37.7	37.7	37.7	
P-1811 A/B	44.5	37.9	37.9	37.9	
P-1847 A/B	48.4	41.8	41.8	41.8	
P-1849 A/B	48.4	41.7	41.7	41.7	
P-1853	56.4	49.8	49.8	49.8	
P-2 A/B	46.4	39.8	39.8	39.8	
P-251 A/B	54.7	48.0	48.0	48.0	
P-252 A/B	53.8	47.1	47.1	47.1	
P-253	53.1	46.4	46.4	46.4	
P-254 A/B	54.5	47.9	47.9	47.9	
P-255 A/B	54.4	47.8	47.8	47.8	
P-255 A/B	55.3	48.6	48.6	48.6	
P-256 A/B	54.6	48.0	48.0	48.0	
P-259 A/B	54.9	48.3	48.3	48.3	
P-260	55.7	49.1	49.1	49.1	
P-261 A/B	55.3	48.6	48.6	48.6	
P-262 A/B	56.8	50.1	50.1	50.1	
P-263 A/B	57.0	50.3	50.3	50.3	
P-270 A/B	52.2	45.6	45.6	45.6	
P-271 A/B	53.4	46.7	46.7	46.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-272 A/B	53.6	47.0	47.0	47.0	
P-273 A/B	52.4	45.7	45.7	45.7	
P-275 A/B/C	52.5	45.8	45.8	45.8	
P-305	39.6	32.9	32.9	32.9	
P-306	54.3	47.6	47.6	47.6	
P-309	40.5	33.8	33.8	33.8	
P-328	53.8	47.1	47.1	47.1	
P-329	54.0	47.3	47.3	47.3	
P-353	40.3	33.6	33.6	33.6	
P-358 A/B	51.3	44.7	44.7	44.7	
P-359 A/B	51.4	44.8	44.8	44.8	
P-360 A/B	45.3	38.6	38.6	38.6	
P-361A	44.6	38.0	38.0	38.0	
P-371 A/B	50.2	43.6	43.6	43.6	
P-373 A/B	45.7	39.0	39.0	39.0	
P-374 A/B	45.9	39.3	39.3	39.3	
P-375 A/B	50.3	43.6	43.6	43.6	
P-376	47.2	40.5	40.5	40.5	
P-376 A/B	45.8	39.1	39.1	39.1	
P-377	48.1	41.4	41.4	41.4	
P-50 A/B	27.5	20.8	20.8	20.8	
P-51 A/B	31.4	24.8	24.8	24.8	
P-63	48.7	42.0	42.0	42.0	
P-70 A/B	25.0	18.4	18.4	18.4	
P-73 A/B	46.5	39.8	39.8	39.8	
Piping Furnace Tanks	33.4	26.7	26.7	26.7	
Piping Hydrogen Tanks Compressor	43.9	37.3	37.3	37.3	
Piping Hydrogen Tanks Compressor w NC	52.6	45.9	45.9	45.9	
Piping Hydrogen Tanks Compressorw NC	47.6	41.0	41.0	41.0	
Pre-Treat Train-Pre-Treat Outside Area E	36.8	30.2	30.2	30.2	
Pre-Treat Train-Pre-Treat Outside Area N	48.3	41.6	41.6	41.6	
Pre-Treat Train-Pre-Treat Outside Area N2	38.3	31.6	31.6	31.6	
Pre-Treat Train-Pre-Treat Outside Area S	50.7	44.0	44.0	44.0	
Pre-Treat Train-Pre-Treat Outside Area S2	45.7	39.1	39.1	39.1	
Pre-Treat Train-Pre-Treat Outside Area W1	39.4	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area W2	53.2	46.6	46.6	46.6	
Pre-Treat Train-Pre-Treat Outside Area W3	47.0	40.4	40.4	40.4	
Pre-Treat Train-Roof 01	55.4	48.7	48.7	48.7	
PSA Pipe 3" Lagging	14.6	7.9	7.9	7.9	
PSA Skid Additional Piping w NC	54.0	47.3	47.3	47.3	
Reformer-Burner Reformer East	29.7	23.0	23.0	23.0	
Reformer-Burner Reformer North	45.3	38.6	38.6	38.6	
Reformer-Burner Reformer South	39.4	32.8	32.8	32.8	
Reformer-Burner Reformer West	49.6	42.9	42.9	42.9	
xxxx xxxx xxxx xxxx	31.1	24.8		24.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	37.2	30.9		30.9	
RFG A from battery to process	45.0	38.3	38.3	38.3	
RFG A from battery to process w NC	48.7	42.0	42.0	42.0	
xxxx xxxx xxxx xxxx	47.1	45.6	43.9	38.0	
xxxx xxxx xxxx xxxx	46.8	45.2	43.5	37.6	
Stack Noise	49.5	42.8	42.8	42.8	
Steam Turbine-Facade 01	42.8	36.2	36.2	36.2	
Steam Turbine-Facade 02	41.9	35.2	35.2	35.2	
Steam Turbine-Facade 03	41.2	34.5	34.5	34.5	
Steam Turbine-Facade 04	34.9	28.2	28.2	28.2	
Steam Turbine-Roof 01	45.3	38.7	38.7	38.7	
Tank Farm Pump 1	46.7	40.1	40.1	40.1	
Tank Farm Pump 2	45.6	38.9	38.9	38.9	
Tank Farm Pump 3	45.6	38.9	38.9	38.9	
UP Train Locomotive Delivery and Pickup 2022 2x	42.0	45.0			
XF-1502 Splitter Area 1	36.6	29.9	29.9	29.9	
XF-1502 Splitter Area 2	34.4	27.7	27.7	27.7	
XF-1504 Splitter Area 1	45.7	39.1	39.1	39.1	
XF-1504 Splitter Area 2	45.4	38.8	38.8	38.8	
XF - 1601	44.4	37.7	37.7	37.7	
XF - 1602	44.4	37.8	37.8	37.8	
XF 251, 250, 271, 270	53.1	46.5	46.5	46.5	
XF 260, 261A, 261 B	54.1	47.4	47.4	47.4	
XF 304, XF 321	54.3	47.7	47.7	47.7	
XF 313, XF 314	51.7	45.0	45.0	45.0	
XF 335-1, XF 335-2	54.8	48.1	48.1	48.1	
XF 353A/B	42.8	36.2	36.2	36.2	
XF 353A/B	44.7	38.1	38.1	38.1	
XF 354A/B	42.7	36.0	36.0	36.0	
XF 503	55.0	48.4	48.4	48.4	
XF Module 1510	48.8	42.1	42.1	42.1	
XF Module 1519	49.2	42.5	42.5	42.5	
Receiver SS-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.8 dB(A) Ld 7-19 dB(A) Leq,N 65.3 dB(A) Le 19-2					
ID Fan Motor	37.4	30.7	30.7	30.7	
18-1855 A/B	51.9	45.2	45.2	45.2	
18-1856 A/B	51.5	44.9	44.9	44.9	
18-1857 A/B	52.1	45.4	45.4	45.4	
18-1858 A/B	51.9	45.2	45.2	45.2	
18-PK 1802 Air Compressor Package	54.4	47.7	47.7	47.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	53.6	55.0	52.6		
Air Compressor C 1	51.5	44.8	44.8	44.8	
Air Compressor Pump	40.9	34.2	34.2	34.2	
Blower F 401	51.0	44.3	44.3	44.3	
Boiler Crude Unit-Heater Opening	44.4	37.7	37.7	37.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Feed Water Pump A	46.2	39.5	39.5	39.5	
Boiler Feed Water Pump B	43.4	36.7	36.7	36.7	
C-270 A	52.1	45.5	45.5	45.5	
C-270 B	52.5	45.8	45.8	45.8	
C-270 C	51.8	45.1	45.1	45.1	
C-301 Compressor	50.3	43.6	43.6	43.6	
C-301 Motor	51.8	45.1	45.1	45.1	
C-351 Compressor	55.9	49.2	49.2	49.2	
C-351 Motor	54.2	47.5	47.5	47.5	
C370 A Motor	48.4	41.7	41.7	41.7	
C370 B Motor	53.0	46.3	46.3	46.3	
C370A	49.0	42.3	42.3	42.3	
C370B	48.9	42.3	42.3	42.3	
Cars Pumping 6 times in during delivery	47.3	50.3			
Compressor House C301, C302, C 124-Comp House East 1	45.5	38.8	38.8	38.8	
Compressor House C301, C302, C 124-Comp House East 2	44.1	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House North	41.6	35.0	35.0	35.0	
Compressor House C301, C302, C 124-Comp House South 1	48.8	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House South 2	44.3	37.6	37.6	37.6	
Compressor House C301, C302, C 124-Comp House West	24.3	17.6	17.6	17.6	
xxxx xxxx xxxx xxxx	47.0	40.3	40.3	40.3	
Cooling Tower CT 510-CT 510 East Side	40.7	34.1	34.1	34.1	
Cooling Tower CT 510-CT 510 West Side	23.3	16.6	16.6	16.6	
Cooling Tower CT 511-CT 511 East Side	53.4	46.8	46.8	46.8	
Cooling Tower CT 511-CT 511 West Side	30.6	24.0	24.0	24.0	
Cooling Tower M 512	30.9	24.2	24.2	24.2	
Cooling Tower M 513	31.3	24.6	24.6	24.6	
Cooling Tower M 514	30.6	24.0	24.0	24.0	
xxxx xxxx xxxx xxxx	31.9	25.6		25.6	
xxxx xxxx xxxx xxxx	31.5	30.0	28.3	22.4	
xxxx xxxx xxxx xxxx	31.5	30.0	28.3	22.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	41.7	35.0	35.0	35.0	
FD Fan Assembly-FD Fan - East	44.4	37.7	37.7	37.7	
FD Fan Assembly-FD Fan - North	41.9	35.3	35.3	35.3	
FD Fan Assembly-FD Fan - Roof	41.4	34.7	34.7	34.7	
FD Fan Assembly-FD Fan - South	40.6	33.9	33.9	33.9	
FD Fan Assembly-FD Fan - West	43.3	36.7	36.7	36.7	
FD Motor	51.5	44.8	44.8	44.8	
Feed Compressor-A Compressor	45.6	38.9	38.9	38.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Feed Compressor-A Motor	45.0	38.4	38.4	38.4	
Feed Compressor-B Compressor	50.7	44.0	44.0	44.0	
Feed Compressor -B Motor	48.0	41.4	41.4	41.4	
H2S Compressor 18-C-271	50.6	43.9	43.9	43.9	
Heater # 5-Heater	47.2	40.5	40.5	40.5	
Heater # 5-Heater	47.5	40.8	40.8	40.8	
Heater # 5-Heater	47.0	40.3	40.3	40.3	
Hydro Heater H-402	44.8	38.1	38.1	38.1	
ID Fan-ID Fan - East (128302)	35.3	28.6	28.6	28.6	
ID Fan-ID Fan - East 1 (128306)	30.6	23.9	23.9	23.9	
ID Fan-ID Fan - North	35.5	28.8	28.8	28.8	
ID Fan-ID Fan - North 2	35.0	28.4	28.4	28.4	
ID Fan-ID Fan - South	40.0	33.3	33.3	33.3	
ID Fan-ID Fan - South 2	39.1	32.4	32.4	32.4	
ID Fan-ID Fan Roof 01 (128293)	39.9	33.2	33.2	33.2	
xxxx xxxx xxxx xxxx	28.9	27.4	25.7	19.8	
xxxx xxxx xxxx xxxx	29.3	27.8	26.1	20.2	
Motor & Pump P - 1502 Splitter Reflux Pu	28.2	21.6	21.6	21.6	
Motor & Pump P - 1503 Splitter Bottoms P	31.1	24.4	24.4	24.4	
Motor & Pump P - 1504 Splitter Bottoms P	32.3	25.6	25.6	25.6	
Motor & Pump P - 1507 Reactor Pump	28.2	21.6	21.6	21.6	
Motor & Pump P - 1508 Reactor Pump	28.3	21.6	21.6	21.6	
Motor & Pump P - 1511 Stabilizer Reflux	31.6	25.0	25.0	25.0	
Motor & Pump P - 1512 Stabilizer Reflux	28.1	21.4	21.4	21.4	
Motor & Pump P - 1513 Caustic Circulatin	28.8	22.2	22.2	22.2	
Motor & Pump P - 1514 Caustic Circulatin	29.6	23.0	23.0	23.0	
Motor & Pump P 120/121	25.0	18.3	18.3	18.3	
Motor & Pump P 1505 FRESH FEED PUMPS	25.3	18.6	18.6	18.6	
Motor & Pump P 1506 FRESH FEED PUMPS	28.0	21.4	21.4	21.4	
Motor & Pump P 1509 Chloride Injection P	37.1	30.5	30.5	30.5	
Motor & Pump P 1510 Chloride Injection P	37.0	30.3	30.3	30.3	
Motor & Pump P 1601 A	27.4	20.7	20.7	20.7	
Motor & Pump P 1601 B	27.7	21.1	21.1	21.1	
Motor & Pump P 1602 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 B	29.1	22.4	22.4	22.4	
Motor & Pump P 211/212	31.8	25.1	25.1	25.1	
Motor & Pump P 215/214	38.1	31.4	31.4	31.4	
Motor & Pump P 216	40.2	33.5	33.5	33.5	
Motor & Pump P 217/218	32.5	25.8	25.8	25.8	
Motor & Pump P 300	29.1	22.5	22.5	22.5	
Motor & Pump P 301	33.0	26.3	26.3	26.3	
Motor & Pump P 302	30.3	23.6	23.6	23.6	
Motor & Pump P 303	30.4	23.7	23.7	23.7	
Motor & Pump P 305	31.1	24.4	24.4	24.4	
Motor & Pump P 306	43.6	37.0	37.0	37.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 307	34.3	27.7	27.7	27.7	
Motor & Pump P 309	30.6	23.9	23.9	23.9	
Motor & Pump P 312	45.0	38.3	38.3	38.3	
Motor & Pump P 313	46.9	40.2	40.2	40.2	
Motor & Pump P 315	45.1	38.4	38.4	38.4	
Motor & Pump P 316	47.7	41.0	41.0	41.0	
Motor & Pump P 317	48.4	41.7	41.7	41.7	
Motor & Pump P 318	44.1	37.4	37.4	37.4	
Motor & Pump P 319	44.8	38.2	38.2	38.2	
Motor & Pump P 327	39.2	32.6	32.6	32.6	
Motor & Pump P 328	42.3	35.6	35.6	35.6	
Motor & Pump P 329	41.6	34.9	34.9	34.9	
Motor & Pump P 451	34.5	27.8	27.8	27.8	
Motor & Pump P 453	39.4	32.7	32.7	32.7	
Motor & Pump P 454	33.0	26.4	26.4	26.4	
Motor & Pump P 457	40.1	33.5	33.5	33.5	
Motor & Pump P 458	39.0	32.3	32.3	32.3	
Motor & Pump P 459	33.9	27.2	27.2	27.2	
Motor & Pump P 56A/B	39.9	33.3	33.3	33.3	
Nitrogen Skid w Compressor 18-PK 1806	40.0	33.3	33.3	33.3	
P-060 A/B	28.7	22.0	22.0	22.0	
P-1101 A	48.2	41.6	41.6	41.6	
P-1103	48.3	41.6	41.6	41.6	
P-1105 A/B/C	48.0	41.4	41.4	41.4	
P-1800	41.7	35.0	35.0	35.0	
P-1801	42.2	35.5	35.5	35.5	
P-1802	42.2	35.5	35.5	35.5	
P-1803	47.0	40.3	40.3	40.3	
P-1804	33.0	26.4	26.4	26.4	
P-1805	36.0	29.3	29.3	29.3	
P-1806	49.9	43.2	43.2	43.2	
P-1809 A	39.6	32.9	32.9	32.9	
P-1810 A/B/C	33.9	27.2	27.2	27.2	
P-1811 A/B	46.1	39.4	39.4	39.4	
P-1811 A/B	37.8	31.1	31.1	31.1	
P-1847 A/B	49.1	42.5	42.5	42.5	
P-1849 A/B	48.9	42.2	42.2	42.2	
P-1853	58.6	51.9	51.9	51.9	
P-2 A/B	45.6	38.9	38.9	38.9	
P-251 A/B	54.4	47.7	47.7	47.7	
P-252 A/B	53.8	47.1	47.1	47.1	
P-253	53.4	46.7	46.7	46.7	
P-254 A/B	54.2	47.5	47.5	47.5	
P-255 A/B	54.2	47.6	47.6	47.6	
P-255 A/B	54.6	48.0	48.0	48.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-256 A/B	54.3	47.6	47.6	47.6	
P-259 A/B	54.5	47.8	47.8	47.8	
P-260	54.8	48.1	48.1	48.1	
P-261 A/B	52.7	46.1	46.1	46.1	
P-262 A/B	55.8	49.1	49.1	49.1	
P-263 A/B	54.9	48.3	48.3	48.3	
P-270 A/B	53.2	46.5	46.5	46.5	
P-271 A/B	54.9	48.3	48.3	48.3	
P-272 A/B	55.0	48.3	48.3	48.3	
P-273 A/B	53.4	46.8	46.8	46.8	
P-275 A/B/C	53.1	46.4	46.4	46.4	
P-305	55.5	48.9	48.9	48.9	
P-306	55.9	49.2	49.2	49.2	
P-309	55.3	48.7	48.7	48.7	
P-328	55.4	48.7	48.7	48.7	
P-329	55.6	49.0	49.0	49.0	
P-353	51.7	45.0	45.0	45.0	
P-358 A/B	46.2	39.6	39.6	39.6	
P-359 A/B	41.8	35.1	35.1	35.1	
P-360 A/B	53.2	46.5	46.5	46.5	
P-361A	41.1	34.4	34.4	34.4	
P-371 A/B	47.9	41.2	41.2	41.2	
P-373 A/B	41.6	34.9	34.9	34.9	
P-374 A/B	42.8	36.1	36.1	36.1	
P-375 A/B	46.2	39.5	39.5	39.5	
P-376	42.9	36.2	36.2	36.2	
P-376 A/B	41.8	35.1	35.1	35.1	
P-377	43.4	36.7	36.7	36.7	
P-50 A/B	33.9	27.2	27.2	27.2	
P-51 A/B	49.0	42.3	42.3	42.3	
P-63	45.6	39.0	39.0	39.0	
P-70 A/B	30.8	24.2	24.2	24.2	
P-73 A/B	47.0	40.3	40.3	40.3	
Piping Furnace Tanks	30.5	23.9	23.9	23.9	
Piping Hydrogen Tanks Compressor	39.2	32.5	32.5	32.5	
Piping Hydrogen Tanks Compressor w NC	47.6	41.0	41.0	41.0	
Piping Hydrogen Tanks Compressorw NC	42.8	36.1	36.1	36.1	
Pre-Treat Train-Pre-Treat Outside Area E	35.3	28.6	28.6	28.6	
Pre-Treat Train-Pre-Treat Outside Area N	43.8	37.1	37.1	37.1	
Pre-Treat Train-Pre-Treat Outside Area N2	35.2	28.5	28.5	28.5	
Pre-Treat Train-Pre-Treat Outside Area S	48.0	41.3	41.3	41.3	
Pre-Treat Train-Pre-Treat Outside Area S2	43.2	36.5	36.5	36.5	
Pre-Treat Train-Pre-Treat Outside Area W1	35.4	28.8	28.8	28.8	
Pre-Treat Train-Pre-Treat Outside Area W2	49.7	43.0	43.0	43.0	
Pre-Treat Train-Pre-Treat Outside Area W3	44.7	38.0	38.0	38.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Roof 01	54.8	48.1	48.1	48.1	
PSA Pipe 3" Lagging	13.3	6.6	6.6	6.6	
PSA Skid Additional Piping w NC	49.1	42.4	42.4	42.4	
Reformer-Burner Reformer East	28.0	21.4	21.4	21.4	
Reformer-Burner Reformer North	42.9	36.2	36.2	36.2	
Reformer-Burner Reformer South	38.5	31.8	31.8	31.8	
Reformer-Burner Reformer West	47.9	41.2	41.2	41.2	
xxxx xxxx xxxx xxxx	27.5	21.2		21.2	
xxxx xxxx xxxx xxxx	36.9	30.7		30.7	
RFG A from battery to process	41.9	35.2	35.2	35.2	
RFG A from battery to process w NC	43.9	37.2	37.2	37.2	
xxxx xxxx xxxx xxxx	46.6	45.1	43.4	37.5	
xxxx xxxx xxxx xxxx	46.3	44.8	43.1	37.2	
Stack Noise	47.3	40.7	40.7	40.7	
Steam Turbine-Facade 01	40.2	33.5	33.5	33.5	
Steam Turbine-Facade 02	39.7	33.0	33.0	33.0	
Steam Turbine-Facade 03	37.0	30.3	30.3	30.3	
Steam Turbine-Facade 04	27.0	20.3	20.3	20.3	
Steam Turbine-Roof 01	44.1	37.4	37.4	37.4	
Tank Farm Pump 1	48.3	41.6	41.6	41.6	
Tank Farm Pump 2	47.2	40.6	40.6	40.6	
Tank Farm Pump 3	47.1	40.4	40.4	40.4	
UP Train Locomotive Delivery and Pickup 2022 2x	40.1	43.1			
XF-1502 Splitter Area 1	43.8	37.2	37.2	37.2	
XF-1502 Splitter Area 2	34.8	28.1	28.1	28.1	
XF-1504 Splitter Area 1	45.5	38.8	38.8	38.8	
XF-1504 Splitter Area 2	45.5	38.8	38.8	38.8	
XF - 1601	41.4	34.7	34.7	34.7	
XF - 1602	41.5	34.9	34.9	34.9	
XF 251, 250, 271, 270	51.8	45.1	45.1	45.1	
XF 260, 261A, 261 B	52.5	45.8	45.8	45.8	
XF 304, XF 321	50.7	44.0	44.0	44.0	
XF 313, XF 314	49.7	43.0	43.0	43.0	
XF 335-1, XF 335-2	51.3	44.6	44.6	44.6	
XF 353A/B	40.2	33.5	33.5	33.5	
XF 353A/B	43.0	36.3	36.3	36.3	
XF 354A/B	44.0	37.3	37.3	37.3	
XF 503	52.3	45.6	45.6	45.6	
XF Module 1510	45.5	38.9	38.9	38.9	
XF Module 1519	46.3	39.6	39.6	39.6	
Receiver SS-6 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.3 dB(A)	Ld 7-19 dB(A)	Leq,N 65.8 dB(A)	Le 19-
ID Fan Motor	39.1	32.5	32.5	32.5	
18-1855 A/B	51.5	44.8	44.8	44.8	
18-1856 A/B	51.1	44.5	44.5	44.5	
18-1857 A/B	51.8	45.1	45.1	45.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
18-1858 A/B	51.9	45.2	45.2	45.2	
18-PK 1802 Air Compressor Package	55.9	49.3	49.3	49.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	53.8	55.2	52.8		
Air Compressor C 1	53.3	46.6	46.6	46.6	
Air Compressor Pump	41.5	34.9	34.9	34.9	
Blower F 401	52.4	45.8	45.8	45.8	
Boiler Crude Unit-Heater Opening	44.4	37.7	37.7	37.7	
Boiler Feed Water Pump A	46.2	39.5	39.5	39.5	
Boiler Feed Water Pump B	44.1	37.4	37.4	37.4	
C-270 A	53.2	46.6	46.6	46.6	
C-270 B	53.5	46.9	46.9	46.9	
C-270 C	52.7	46.0	46.0	46.0	
C-301 Compressor	53.4	46.7	46.7	46.7	
C-301 Motor	52.7	46.0	46.0	46.0	
C-351 Compressor	56.7	50.1	50.1	50.1	
C-351 Motor	54.6	47.9	47.9	47.9	
C370 A Motor	49.3	42.6	42.6	42.6	
C370 B Motor	53.7	47.0	47.0	47.0	
C370A	50.0	43.3	43.3	43.3	
C370B	49.9	43.2	43.2	43.2	
Cars Pumping 6 times in during delivery	48.2	51.2			
Compressor House C301, C302, C 124-Comp House East 1	46.3	39.7	39.7	39.7	
Compressor House C301, C302, C 124-Comp House East 2	44.9	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	42.1	35.5	35.5	35.5	
Compressor House C301, C302, C 124-Comp House South 1	49.6	42.9	42.9	42.9	
Compressor House C301, C302, C 124-Comp House South 2	45.3	38.6	38.6	38.6	
Compressor House C301, C302, C 124-Comp House West	25.0	18.4	18.4	18.4	
xxxx xxxx xxxx xxxx	47.0	40.4	40.4	40.4	
Cooling Tower CT 510-CT 510 East Side	41.8	35.2	35.2	35.2	
Cooling Tower CT 510-CT 510 West Side	24.4	17.7	17.7	17.7	
Cooling Tower CT 511-CT 511 East Side	54.7	48.0	48.0	48.0	
Cooling Tower CT 511-CT 511 West Side	31.6	24.9	24.9	24.9	
Cooling Tower M 512	31.0	24.4	24.4	24.4	
Cooling Tower M 513	31.4	24.8	24.8	24.8	
Cooling Tower M 514	30.8	24.1	24.1	24.1	
xxxx xxxx xxxx xxxx	30.1	23.8		23.8	
xxxx xxxx xxxx xxxx	32.2	30.7	28.9	23.0	
xxxx xxxx xxxx xxxx	32.2	30.7	29.0	23.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.3	36.7	36.7	36.7	
FD Fan Assembly-FD Fan - East	43.8	37.1	37.1	37.1	
FD Fan Assembly-FD Fan - North	41.5	34.8	34.8	34.8	
FD Fan Assembly-FD Fan - Roof	39.6	33.0	33.0	33.0	
FD Fan Assembly-FD Fan - South	41.4	34.8	34.8	34.8	
FD Fan Assembly-FD Fan - West	44.8	38.1	38.1	38.1	
FD Motor	51.1	44.5	44.5	44.5	
Feed Compressor-A Compressor	47.6	40.9	40.9	40.9	
Feed Compressor-A Motor	47.3	40.6	40.6	40.6	
Feed Compressor-B Compressor	51.1	44.5	44.5	44.5	
Feed Compressor -B Motor	48.9	42.2	42.2	42.2	
H2S Compressor 18-C-271	50.8	44.1	44.1	44.1	
Heater # 5-Heater	48.6	41.9	41.9	41.9	
Heater # 5-Heater	48.9	42.2	42.2	42.2	
Heater # 5-Heater	48.3	41.6	41.6	41.6	
Hydro Heater H-402	46.2	39.6	39.6	39.6	
ID Fan-ID Fan - East (128302)	34.6	27.9	27.9	27.9	
ID Fan-ID Fan - East 1 (128306)	29.7	23.0	23.0	23.0	
ID Fan-ID Fan - North	34.5	27.8	27.8	27.8	
ID Fan-ID Fan - North 2	34.2	27.5	27.5	27.5	
ID Fan-ID Fan - South	41.6	35.0	35.0	35.0	
ID Fan-ID Fan - South 2	40.5	33.8	33.8	33.8	
ID Fan-ID Fan Roof 01 (128293)	39.8	33.1	33.1	33.1	
xxxx xxxx xxxx xxxx	30.5	28.9	27.2	21.3	
xxxx xxxx xxxx xxxx	30.4	28.9	27.2	21.3	
Motor & Pump P - 1502 Splitter Reflux Pu	28.7	22.0	22.0	22.0	
Motor & Pump P - 1503 Splitter Bottoms P	31.5	24.8	24.8	24.8	
Motor & Pump P - 1504 Splitter Bottoms P	32.5	25.8	25.8	25.8	
Motor & Pump P - 1507 Reactor Pump	28.8	22.1	22.1	22.1	
Motor & Pump P - 1508 Reactor Pump	28.8	22.2	22.2	22.2	
Motor & Pump P - 1511 Stabilizer Reflux	35.0	28.3	28.3	28.3	
Motor & Pump P - 1512 Stabilizer Reflux	29.3	22.6	22.6	22.6	
Motor & Pump P - 1513 Caustic Circulatin	36.0	29.4	29.4	29.4	
Motor & Pump P - 1514 Caustic Circulatin	35.9	29.3	29.3	29.3	
Motor & Pump P 120/121	25.6	18.9	18.9	18.9	
Motor & Pump P 1505 FRESH FEED PUMPS	25.5	18.8	18.8	18.8	
Motor & Pump P 1506 FRESH FEED PUMPS	28.5	21.9	21.9	21.9	
Motor & Pump P 1509 Chloride Injection P	37.0	30.4	30.4	30.4	
Motor & Pump P 1510 Chloride Injection P	36.9	30.2	30.2	30.2	
Motor & Pump P 1601 A	27.7	21.0	21.0	21.0	
Motor & Pump P 1601 B	28.0	21.3	21.3	21.3	
Motor & Pump P 1602 A	28.3	21.7	21.7	21.7	
Motor & Pump P 1602 B	29.3	22.6	22.6	22.6	
Motor & Pump P 211/212	32.3	25.6	25.6	25.6	
Motor & Pump P 215/214	38.5	31.9	31.9	31.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 216	40.8	34.1	34.1	34.1	
Motor & Pump P 217/218	32.9	26.2	26.2	26.2	
Motor & Pump P 300	30.0	23.4	23.4	23.4	
Motor & Pump P 301	34.0	27.3	27.3	27.3	
Motor & Pump P 302	30.8	24.1	24.1	24.1	
Motor & Pump P 303	30.9	24.2	24.2	24.2	
Motor & Pump P 305	31.6	24.9	24.9	24.9	
Motor & Pump P 306	44.9	38.2	38.2	38.2	
Motor & Pump P 307	35.1	28.4	28.4	28.4	
Motor & Pump P 309	31.1	24.4	24.4	24.4	
Motor & Pump P 312	45.6	38.9	38.9	38.9	
Motor & Pump P 313	47.7	41.1	41.1	41.1	
Motor & Pump P 315	45.6	39.0	39.0	39.0	
Motor & Pump P 316	48.4	41.7	41.7	41.7	
Motor & Pump P 317	49.0	42.4	42.4	42.4	
Motor & Pump P 318	44.3	37.7	37.7	37.7	
Motor & Pump P 319	45.1	38.4	38.4	38.4	
Motor & Pump P 327	40.4	33.7	33.7	33.7	
Motor & Pump P 328	42.8	36.2	36.2	36.2	
Motor & Pump P 329	42.0	35.3	35.3	35.3	
Motor & Pump P 451	34.5	27.8	27.8	27.8	
Motor & Pump P 453	40.3	33.6	33.6	33.6	
Motor & Pump P 454	33.4	26.7	26.7	26.7	
Motor & Pump P 457	40.9	34.2	34.2	34.2	
Motor & Pump P 458	39.9	33.3	33.3	33.3	
Motor & Pump P 459	34.0	27.3	27.3	27.3	
Motor & Pump P 56A/B	40.1	33.5	33.5	33.5	
Nitrogen Skid w Compressor 18-PK 1806	40.9	34.2	34.2	34.2	
P-060 A/B	28.4	21.7	21.7	21.7	
P-1101 A	47.9	41.2	41.2	41.2	
P-1103	47.9	41.3	41.3	41.3	
P-1105 A/B/C	47.7	41.0	41.0	41.0	
P-1800	44.7	38.0	38.0	38.0	
P-1801	42.8	36.1	36.1	36.1	
P-1802	42.8	36.2	36.2	36.2	
P-1803	46.9	40.2	40.2	40.2	
P-1804	38.8	32.2	32.2	32.2	
P-1805	40.6	33.9	33.9	33.9	
P-1806	49.3	42.6	42.6	42.6	
P-1809 A	42.4	35.7	35.7	35.7	
P-1810 A/B/C	36.3	29.6	29.6	29.6	
P-1811 A/B	46.1	39.4	39.4	39.4	
P-1811 A/B	39.1	32.5	32.5	32.5	
P-1847 A/B	48.9	42.3	42.3	42.3	
P-1849 A/B	48.7	42.0	42.0	42.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1853	59.2	52.6	52.6	52.6	
P-2 A/B	46.7	40.1	40.1	40.1	
P-251 A/B	54.6	48.0	48.0	48.0	
P-252 A/B	53.7	47.0	47.0	47.0	
P-253	53.2	46.5	46.5	46.5	
P-254 A/B	54.1	47.5	47.5	47.5	
P-255 A/B	54.3	47.6	47.6	47.6	
P-255 A/B	55.1	48.4	48.4	48.4	
P-256 A/B	54.5	47.8	47.8	47.8	
P-259 A/B	54.8	48.2	48.2	48.2	
P-260	55.3	48.6	48.6	48.6	
P-261 A/B	54.5	47.8	47.8	47.8	
P-262 A/B	56.3	49.6	49.6	49.6	
P-263 A/B	55.7	49.0	49.0	49.0	
P-270 A/B	52.6	46.0	46.0	46.0	
P-271 A/B	54.5	47.9	47.9	47.9	
P-272 A/B	54.7	48.0	48.0	48.0	
P-273 A/B	52.9	46.3	46.3	46.3	
P-275 A/B/C	52.8	46.1	46.1	46.1	
P-305	55.0	48.3	48.3	48.3	
P-306	55.3	48.6	48.6	48.6	
P-309	54.8	48.1	48.1	48.1	
P-328	54.8	48.1	48.1	48.1	
P-329	55.0	48.3	48.3	48.3	
P-353	51.3	44.6	44.6	44.6	
P-358 A/B	46.2	39.5	39.5	39.5	
P-359 A/B	41.5	34.8	34.8	34.8	
P-360 A/B	52.2	45.6	45.6	45.6	
P-361A	41.1	34.5	34.5	34.5	
P-371 A/B	49.3	42.7	42.7	42.7	
P-373 A/B	43.9	37.3	37.3	37.3	
P-374 A/B	44.5	37.9	37.9	37.9	
P-375 A/B	46.6	39.9	39.9	39.9	
P-376	44.6	37.9	37.9	37.9	
P-376 A/B	43.9	37.2	37.2	37.2	
P-377	44.8	38.1	38.1	38.1	
P-50 A/B	33.7	27.0	27.0	27.0	
P-51 A/B	48.5	41.8	41.8	41.8	
P-63	46.5	39.9	39.9	39.9	
P-70 A/B	30.5	23.8	23.8	23.8	
P-73 A/B	47.5	40.8	40.8	40.8	
Piping Furnace Tanks	32.3	25.7	25.7	25.7	
Piping Hydrogen Tanks Compressor	43.0	36.3	36.3	36.3	
Piping Hydrogen Tanks Compressor w NC	51.4	44.8	44.8	44.8	
Piping Hydrogen Tanks Compressorw NC	46.6	39.9	39.9	39.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Pre-Treat Outside Area E	35.9	29.2	29.2	29.2	
Pre-Treat Train-Pre-Treat Outside Area N	47.6	40.9	40.9	40.9	
Pre-Treat Train-Pre-Treat Outside Area N2	37.8	31.2	31.2	31.2	
Pre-Treat Train-Pre-Treat Outside Area S	49.8	43.1	43.1	43.1	
Pre-Treat Train-Pre-Treat Outside Area S2	44.4	37.7	37.7	37.7	
Pre-Treat Train-Pre-Treat Outside Area W1	37.0	30.4	30.4	30.4	
Pre-Treat Train-Pre-Treat Outside Area W2	51.0	44.3	44.3	44.3	
Pre-Treat Train-Pre-Treat Outside Area W3	46.1	39.4	39.4	39.4	
Pre-Treat Train-Roof 01	55.9	49.3	49.3	49.3	
PSA Pipe 3" Lagging	13.8	7.2	7.2	7.2	
PSA Skid Additional Piping w NC	52.8	46.2	46.2	46.2	
Reformer-Burner Reformer East	28.7	22.1	22.1	22.1	
Reformer-Burner Reformer North	44.1	37.4	37.4	37.4	
Reformer-Burner Reformer South	39.1	32.5	32.5	32.5	
Reformer-Burner Reformer West	48.8	42.2	42.2	42.2	
xxxx xxxx xxxx xxxx	26.3	20.0		20.0	
xxxx xxxx xxxx xxxx	39.2	32.9		32.9	
RFG A from battery to process	44.5	37.8	37.8	37.8	
RFG A from battery to process w NC	47.6	40.9	40.9	40.9	
xxxx xxxx xxxx xxxx	48.3	46.8	45.1	39.2	
xxxx xxxx xxxx xxxx	47.9	46.4	44.6	38.7	
Stack Noise	48.7	42.0	42.0	42.0	
Steam Turbine-Facade 01	41.5	34.8	34.8	34.8	
Steam Turbine-Facade 02	40.9	34.2	34.2	34.2	
Steam Turbine-Facade 03	37.9	31.2	31.2	31.2	
Steam Turbine-Facade 04	27.9	21.3	21.3	21.3	
Steam Turbine-Roof 01	44.6	38.0	38.0	38.0	
Tank Farm Pump 1	48.0	41.3	41.3	41.3	
Tank Farm Pump 2	47.0	40.3	40.3	40.3	
Tank Farm Pump 3	46.8	40.1	40.1	40.1	
UP Train Locomotive Delivery and Pickup 2022 2x	40.3	43.3			
XF-1502 Splitter Area 1	44.9	38.2	38.2	38.2	
XF-1502 Splitter Area 2	36.1	29.5	29.5	29.5	
XF-1504 Splitter Area 1	47.2	40.5	40.5	40.5	
XF-1504 Splitter Area 2	46.5	39.8	39.8	39.8	
XF - 1601	43.3	36.6	36.6	36.6	
XF - 1602	43.4	36.7	36.7	36.7	
XF 251, 250, 271, 270	52.8	46.1	46.1	46.1	
XF 260, 261A, 261 B	53.2	46.5	46.5	46.5	
XF 304, XF 321	51.2	44.6	44.6	44.6	
XF 313, XF 314	50.9	44.2	44.2	44.2	
XF 335-1, XF 335-2	52.8	46.1	46.1	46.1	
XF 353A/B	42.1	35.4	35.4	35.4	
XF 353A/B	45.0	38.4	38.4	38.4	
XF 354A/B	45.2	38.5	38.5	38.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 503	53.8	47.1	47.1	47.1	
XF Module 1510	47.5	40.8	40.8	40.8	
XF Module 1519	48.1	41.5	41.5	41.5	
Receiver SS-6 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.6 dB(A)	Ld 7-19 dB(A)	Leq,N 66.1 dB(A)	Le 19-
ID Fan Motor	39.5	32.8	32.8	32.8	
18-1855 A/B	51.5	44.8	44.8	44.8	
18-1856 A/B	51.1	44.5	44.5	44.5	
18-1857 A/B	51.8	45.1	45.1	45.1	
18-1858 A/B	51.9	45.2	45.2	45.2	
18-PK 1802 Air Compressor Package	56.1	49.4	49.4	49.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	53.9	55.3	52.9		
Air Compressor C 1	54.5	47.8	47.8	47.8	
Air Compressor Pump	42.5	35.8	35.8	35.8	
Blower F 401	53.2	46.5	46.5	46.5	
Boiler Crude Unit-Heater Opening	44.5	37.9	37.9	37.9	
Boiler Feed Water Pump A	46.4	39.8	39.8	39.8	
Boiler Feed Water Pump B	44.5	37.9	37.9	37.9	
C-270 A	53.9	47.3	47.3	47.3	
C-270 B	54.2	47.5	47.5	47.5	
C-270 C	53.3	46.6	46.6	46.6	
C-301 Compressor	54.0	47.3	47.3	47.3	
C-301 Motor	53.0	46.4	46.4	46.4	
C-351 Compressor	57.0	50.3	50.3	50.3	
C-351 Motor	54.9	48.2	48.2	48.2	
C370 A Motor	51.4	44.7	44.7	44.7	
C370 B Motor	56.0	49.3	49.3	49.3	
C370A	51.6	44.9	44.9	44.9	
C370B	51.6	44.9	44.9	44.9	
Cars Pumping 6 times in during delivery	48.4	51.4			
Compressor House C301, C302, C 124-Comp House East 1	46.9	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House East 2	44.9	38.3	38.3	38.3	
Compressor House C301, C302, C 124-Comp House North	43.6	36.9	36.9	36.9	
Compressor House C301, C302, C 124-Comp House South 1	50.4	43.8	43.8	43.8	
Compressor House C301, C302, C 124-Comp House South 2	46.0	39.3	39.3	39.3	
Compressor House C301, C302, C 124-Comp House West	26.6	20.0	20.0	20.0	
xxxx xxxx xxxx xxxx	47.5	40.8	40.8	40.8	
Cooling Tower CT 510-CT 510 East Side	42.2	35.6	35.6	35.6	
Cooling Tower CT 510-CT 510 West Side	24.7	18.1	18.1	18.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 East Side	54.9	48.3	48.3	48.3	
Cooling Tower CT 511-CT 511 West Side	32.2	25.6	25.6	25.6	
Cooling Tower M 512	31.1	24.5	24.5	24.5	
Cooling Tower M 513	31.6	24.9	24.9	24.9	
Cooling Tower M 514	31.0	24.3	24.3	24.3	
xxxx xxxx xxxx xxxx	29.9	23.7		23.7	
xxxx xxxx xxxx xxxx	33.3	31.8	30.1	24.1	
xxxx xxxx xxxx xxxx	33.3	31.8	30.1	24.2	
E 321 Fin Fan Hydrogen Plant - Low Noise	44.0	37.3	37.3	37.3	
FD Fan Assembly-FD Fan - East	43.7	37.0	37.0	37.0	
FD Fan Assembly-FD Fan - North	41.4	34.7	34.7	34.7	
FD Fan Assembly-FD Fan - Roof	39.9	33.2	33.2	33.2	
FD Fan Assembly-FD Fan - South	42.0	35.3	35.3	35.3	
FD Fan Assembly-FD Fan - West	45.3	38.7	38.7	38.7	
FD Motor	50.9	44.2	44.2	44.2	
Feed Compressor-A Compressor	48.9	42.2	42.2	42.2	
Feed Compressor-A Motor	48.4	41.7	41.7	41.7	
Feed Compressor-B Compressor	51.8	45.1	45.1	45.1	
Feed Compressor -B Motor	49.3	42.6	42.6	42.6	
H2S Compressor 18-C-271	50.1	43.4	43.4	43.4	
Heater # 5-Heater	48.7	42.0	42.0	42.0	
Heater # 5-Heater	49.0	42.3	42.3	42.3	
Heater # 5-Heater	48.4	41.7	41.7	41.7	
Hydro Heater H-402	46.1	39.5	39.5	39.5	
ID Fan-ID Fan - East (128302)	34.6	27.9	27.9	27.9	
ID Fan-ID Fan - East 1 (128306)	29.6	22.9	22.9	22.9	
ID Fan-ID Fan - North	34.5	27.8	27.8	27.8	
ID Fan-ID Fan - North 2	34.2	27.5	27.5	27.5	
ID Fan-ID Fan - South	43.0	36.4	36.4	36.4	
ID Fan-ID Fan - South 2	41.7	35.1	35.1	35.1	
ID Fan-ID Fan Roof 01 (128293)	40.1	33.4	33.4	33.4	
xxxx xxxx xxxx xxxx	32.0	30.5	28.8	22.9	
xxxx xxxx xxxx xxxx	32.0	30.5	28.7	22.8	
Motor & Pump P - 1502 Splitter Reflux Pu	28.4	21.7	21.7	21.7	
Motor & Pump P - 1503 Splitter Bottoms P	31.1	24.5	24.5	24.5	
Motor & Pump P - 1504 Splitter Bottoms P	32.1	25.4	25.4	25.4	
Motor & Pump P - 1507 Reactor Pump	28.6	22.0	22.0	22.0	
Motor & Pump P - 1508 Reactor Pump	28.7	22.0	22.0	22.0	
Motor & Pump P - 1511 Stabilizer Reflux	35.2	28.5	28.5	28.5	
Motor & Pump P - 1512 Stabilizer Reflux	29.2	22.6	22.6	22.6	
Motor & Pump P - 1513 Caustic Circulatin	35.6	28.9	28.9	28.9	
Motor & Pump P - 1514 Caustic Circulatin	35.5	28.9	28.9	28.9	
Motor & Pump P 120/121	26.3	19.7	19.7	19.7	
Motor & Pump P 1505 FRESH FEED PUMPS	25.0	18.4	18.4	18.4	
Motor & Pump P 1506 FRESH FEED PUMPS	28.3	21.6	21.6	21.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1509 Chloride Injection P	36.5	29.8	29.8	29.8	
Motor & Pump P 1510 Chloride Injection P	36.3	29.6	29.6	29.6	
Motor & Pump P 1601 A	29.7	23.0	23.0	23.0	
Motor & Pump P 1601 B	29.9	23.2	23.2	23.2	
Motor & Pump P 1602 A	30.1	23.4	23.4	23.4	
Motor & Pump P 1602 B	30.8	24.1	24.1	24.1	
Motor & Pump P 211/212	34.1	27.5	27.5	27.5	
Motor & Pump P 215/214	38.5	31.8	31.8	31.8	
Motor & Pump P 216	41.0	34.3	34.3	34.3	
Motor & Pump P 217/218	34.1	27.4	27.4	27.4	
Motor & Pump P 300	31.1	24.4	24.4	24.4	
Motor & Pump P 301	36.6	29.9	29.9	29.9	
Motor & Pump P 302	30.0	23.3	23.3	23.3	
Motor & Pump P 303	30.3	23.6	23.6	23.6	
Motor & Pump P 305	31.5	24.8	24.8	24.8	
Motor & Pump P 306	44.5	37.8	37.8	37.8	
Motor & Pump P 307	38.7	32.1	32.1	32.1	
Motor & Pump P 309	31.1	24.4	24.4	24.4	
Motor & Pump P 312	45.2	38.6	38.6	38.6	
Motor & Pump P 313	47.3	40.6	40.6	40.6	
Motor & Pump P 315	45.4	38.7	38.7	38.7	
Motor & Pump P 316	47.9	41.2	41.2	41.2	
Motor & Pump P 317	48.6	41.9	41.9	41.9	
Motor & Pump P 318	44.1	37.4	37.4	37.4	
Motor & Pump P 319	44.8	38.1	38.1	38.1	
Motor & Pump P 327	40.1	33.5	33.5	33.5	
Motor & Pump P 328	42.8	36.1	36.1	36.1	
Motor & Pump P 329	41.3	34.6	34.6	34.6	
Motor & Pump P 451	34.3	27.6	27.6	27.6	
Motor & Pump P 453	40.5	33.8	33.8	33.8	
Motor & Pump P 454	34.9	28.2	28.2	28.2	
Motor & Pump P 457	41.0	34.4	34.4	34.4	
Motor & Pump P 458	39.9	33.2	33.2	33.2	
Motor & Pump P 459	33.8	27.1	27.1	27.1	
Motor & Pump P 56A/B	39.7	33.1	33.1	33.1	
Nitrogen Skid w Compressor 18-PK 1806	40.6	33.9	33.9	33.9	
P-060 A/B	27.9	21.2	21.2	21.2	
P-1101 A	47.5	40.9	40.9	40.9	
P-1103	47.6	40.9	40.9	40.9	
P-1105 A/B/C	47.3	40.7	40.7	40.7	
P-1800	45.1	38.5	38.5	38.5	
P-1801	42.3	35.6	35.6	35.6	
P-1802	42.3	35.7	35.7	35.7	
P-1803	46.7	40.0	40.0	40.0	
P-1804	39.2	32.5	32.5	32.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1805	41.7	35.0	35.0	35.0	
P-1806	48.7	42.0	42.0	42.0	
P-1809 A	43.0	36.3	36.3	36.3	
P-1810 A/B/C	38.2	31.5	31.5	31.5	
P-1811 A/B	45.6	39.0	39.0	39.0	
P-1811 A/B	40.4	33.8	33.8	33.8	
P-1847 A/B	48.2	41.5	41.5	41.5	
P-1849 A/B	47.9	41.3	41.3	41.3	
P-1853	59.2	52.6	52.6	52.6	
P-2 A/B	46.3	39.6	39.6	39.6	
P-251 A/B	54.6	48.0	48.0	48.0	
P-252 A/B	53.7	47.0	47.0	47.0	
P-253	53.2	46.6	46.6	46.6	
P-254 A/B	54.2	47.5	47.5	47.5	
P-255 A/B	54.3	47.6	47.6	47.6	
P-255 A/B	55.1	48.5	48.5	48.5	
P-256 A/B	54.5	47.8	47.8	47.8	
P-259 A/B	54.8	48.2	48.2	48.2	
P-260	55.3	48.6	48.6	48.6	
P-261 A/B	54.5	47.8	47.8	47.8	
P-262 A/B	56.3	49.6	49.6	49.6	
P-263 A/B	55.7	49.0	49.0	49.0	
P-270 A/B	52.7	46.0	46.0	46.0	
P-271 A/B	54.6	47.9	47.9	47.9	
P-272 A/B	54.7	48.0	48.0	48.0	
P-273 A/B	52.9	46.3	46.3	46.3	
P-275 A/B/C	52.8	46.1	46.1	46.1	
P-305	55.0	48.3	48.3	48.3	
P-306	55.3	48.6	48.6	48.6	
P-309	54.8	48.1	48.1	48.1	
P-328	54.8	48.1	48.1	48.1	
P-329	55.0	48.4	48.4	48.4	
P-353	51.3	44.7	44.7	44.7	
P-358 A/B	46.6	39.9	39.9	39.9	
P-359 A/B	41.9	35.3	35.3	35.3	
P-360 A/B	52.2	45.5	45.5	45.5	
P-361A	41.9	35.2	35.2	35.2	
P-371 A/B	49.4	42.7	42.7	42.7	
P-373 A/B	45.2	38.5	38.5	38.5	
P-374 A/B	45.0	38.3	38.3	38.3	
P-375 A/B	46.8	40.2	40.2	40.2	
P-376	45.0	38.3	38.3	38.3	
P-376 A/B	45.1	38.5	38.5	38.5	
P-377	45.2	38.6	38.6	38.6	
P-50 A/B	33.2	26.5	26.5	26.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-51 A/B	48.0	41.3	41.3	41.3	
P-63	46.7	40.0	40.0	40.0	
P-70 A/B	30.1	23.4	23.4	23.4	
P-73 A/B	47.0	40.3	40.3	40.3	
Piping Furnace Tanks	33.0	26.3	26.3	26.3	
Piping Hydrogen Tanks Compressor	43.8	37.2	37.2	37.2	
Piping Hydrogen Tanks Compressor w NC	52.1	45.5	45.5	45.5	
Piping Hydrogen Tanks Compressorw NC	47.3	40.6	40.6	40.6	
Pre-Treat Train-Pre-Treat Outside Area E	36.6	29.9	29.9	29.9	
Pre-Treat Train-Pre-Treat Outside Area N	48.6	41.9	41.9	41.9	
Pre-Treat Train-Pre-Treat Outside Area N2	37.9	31.3	31.3	31.3	
Pre-Treat Train-Pre-Treat Outside Area S	51.0	44.4	44.4	44.4	
Pre-Treat Train-Pre-Treat Outside Area S2	45.2	38.6	38.6	38.6	
Pre-Treat Train-Pre-Treat Outside Area W1	37.4	30.7	30.7	30.7	
Pre-Treat Train-Pre-Treat Outside Area W2	52.0	45.3	45.3	45.3	
Pre-Treat Train-Pre-Treat Outside Area W3	46.7	40.0	40.0	40.0	
Pre-Treat Train-Roof 01	56.2	49.5	49.5	49.5	
PSA Pipe 3" Lagging	14.0	7.3	7.3	7.3	
PSA Skid Additional Piping w NC	53.5	46.9	46.9	46.9	
Reformer-Burner Reformer East	28.9	22.2	22.2	22.2	
Reformer-Burner Reformer North	44.6	37.9	37.9	37.9	
Reformer-Burner Reformer South	39.3	32.6	32.6	32.6	
Reformer-Burner Reformer West	49.4	42.7	42.7	42.7	
xxxx xxxx xxxx xxxx	26.7	20.4		20.4	
xxxx xxxx xxxx xxxx	39.3	33.1		33.1	
RFG A from battery to process	45.3	38.6	38.6	38.6	
RFG A from battery to process w NC	48.4	41.7	41.7	41.7	
xxxx xxxx xxxx xxxx	49.4	47.9	46.2	40.2	
xxxx xxxx xxxx xxxx	48.6	47.1	45.3	39.4	
Stack Noise	49.2	42.6	42.6	42.6	
Steam Turbine-Facade 01	42.2	35.5	35.5	35.5	
Steam Turbine-Facade 02	41.4	34.7	34.7	34.7	
Steam Turbine-Facade 03	40.7	34.0	34.0	34.0	
Steam Turbine-Facade 04	32.8	26.1	26.1	26.1	
Steam Turbine-Roof 01	44.6	37.9	37.9	37.9	
Tank Farm Pump 1	47.4	40.7	40.7	40.7	
Tank Farm Pump 2	46.2	39.6	39.6	39.6	
Tank Farm Pump 3	46.1	39.4	39.4	39.4	
UP Train Locomotive Delivery and Pickup 2022 2x	40.3	43.3			
XF-1502 Splitter Area 1	45.3	38.6	38.6	38.6	
XF-1502 Splitter Area 2	36.5	29.8	29.8	29.8	
XF-1504 Splitter Area 1	47.8	41.1	41.1	41.1	
XF-1504 Splitter Area 2	46.7	40.0	40.0	40.0	
XF - 1601	43.7	37.0	37.0	37.0	
XF - 1602	43.8	37.1	37.1	37.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 251, 250, 271, 270	53.3	46.6	46.6	46.6	
XF 260, 261A, 261 B	53.5	46.8	46.8	46.8	
XF 304, XF 321	52.2	45.6	45.6	45.6	
XF 313, XF 314	51.4	44.7	44.7	44.7	
XF 335-1, XF 335-2	53.6	46.9	46.9	46.9	
XF 353A/B	42.7	36.0	36.0	36.0	
XF 353A/B	45.4	38.7	38.7	38.7	
XF 354A/B	45.8	39.1	39.1	39.1	
XF 503	54.5	47.8	47.8	47.8	
XF Module 1510	48.1	41.4	41.4	41.4	
XF Module 1519	48.7	42.0	42.0	42.0	
Receiver MH-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.3 dB(A)	Ld 7-19 dB(A)	Leq,N 66.3 dB(A)	Le 19-
ID Fan Motor	39.9	33.2	33.2	33.2	
18-1855 A/B	25.9	19.3	19.3	19.3	
18-1856 A/B	26.0	19.4	19.4	19.4	
18-1857 A/B	29.0	22.3	22.3	22.3	
18-1858 A/B	29.1	22.4	22.4	22.4	
18-PK 1802 Air Compressor Package	34.6	27.9	27.9	27.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	39.9	41.3	38.8		
Air Compressor C 1	54.8	48.1	48.1	48.1	
Air Compressor Pump	27.1	20.5	20.5	20.5	
Blower F 401	60.8	54.1	54.1	54.1	
Boiler Crude Unit-Heater Opening	24.4	17.7	17.7	17.7	
Boiler Feed Water Pump A	27.1	20.5	20.5	20.5	
Boiler Feed Water Pump B	28.0	21.3	21.3	21.3	
C-270 A	35.1	28.5	28.5	28.5	
C-270 B	34.8	28.1	28.1	28.1	
C-270 C	34.4	27.7	27.7	27.7	
C-301 Compressor	40.1	33.4	33.4	33.4	
C-301 Motor	38.2	31.6	31.6	31.6	
C-351 Compressor	36.0	29.3	29.3	29.3	
C-351 Motor	33.0	26.3	26.3	26.3	
C370 A Motor	36.1	29.5	29.5	29.5	
C370 B Motor	40.9	34.2	34.2	34.2	
C370A	36.1	29.5	29.5	29.5	
C370B	35.8	29.1	29.1	29.1	
Cars Pumping 6 times in during delivery	37.2	40.2			
Compressor House C301, C302, C 124-Comp House East 1	48.3	41.7	41.7	41.7	
Compressor House C301, C302, C 124-Comp House East 2	46.8	40.2	40.2	40.2	
Compressor House C301, C302, C 124-Comp House North	54.3	47.6	47.6	47.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	37.6	30.9	30.9	30.9	
Compressor House C301, C302, C 124-Comp House South 2	32.5	25.8	25.8	25.8	
Compressor House C301, C302, C 124-Comp House West	31.2	24.5	24.5	24.5	
xxxx xxxx xxxx xxxx	40.1	33.5	33.5	33.5	
Cooling Tower CT 510-CT 510 East Side	43.8	37.2	37.2	37.2	
Cooling Tower CT 510-CT 510 West Side	41.4	34.7	34.7	34.7	
Cooling Tower CT 511-CT 511 East Side	30.2	23.5	23.5	23.5	
Cooling Tower CT 511-CT 511 West Side	55.8	49.1	49.1	49.1	
Cooling Tower M 512	28.9	22.3	22.3	22.3	
Cooling Tower M 513	28.8	22.1	22.1	22.1	
Cooling Tower M 514	29.3	22.6	22.6	22.6	
xxxx xxxx xxxx xxxx	40.4	34.1		34.1	
xxxx xxxx xxxx xxxx	41.0	39.4	37.7	31.8	
xxxx xxxx xxxx xxxx	40.7	39.1	37.4	31.5	
E 321 Fin Fan Hydrogen Plant - Low Noise	27.1	20.4	20.4	20.4	
FD Fan Assembly-FD Fan - East	35.0	28.3	28.3	28.3	
FD Fan Assembly-FD Fan - North	37.2	30.5	30.5	30.5	
FD Fan Assembly-FD Fan - Roof	37.5	30.8	30.8	30.8	
FD Fan Assembly-FD Fan - South	36.1	29.5	29.5	29.5	
FD Fan Assembly-FD Fan - West	42.7	36.0	36.0	36.0	
FD Motor	32.0	25.4	25.4	25.4	
Feed Compressor-A Compressor	34.0	27.3	27.3	27.3	
Feed Compressor-A Motor	32.1	25.5	25.5	25.5	
Feed Compressor-B Compressor	34.0	27.3	27.3	27.3	
Feed Compressor -B Motor	31.2	24.5	24.5	24.5	
H2S Compressor 18-C-271	51.4	44.8	44.8	44.8	
Heater # 5-Heater	18.6	12.0	12.0	12.0	
Heater # 5-Heater	18.6	11.9	11.9	11.9	
Heater # 5-Heater	19.7	13.0	13.0	13.0	
Hydro Heater H-402	45.3	38.6	38.6	38.6	
ID Fan-ID Fan - East (128302)	25.8	19.1	19.1	19.1	
ID Fan-ID Fan - East 1 (128306)	26.4	19.7	19.7	19.7	
ID Fan-ID Fan - North	35.8	29.2	29.2	29.2	
ID Fan-ID Fan - North 2	35.1	28.4	28.4	28.4	
ID Fan-ID Fan - South	30.5	23.9	23.9	23.9	
ID Fan-ID Fan - South 2	30.2	23.6	23.6	23.6	
ID Fan-ID Fan Roof 01 (128293)	37.5	30.9	30.9	30.9	
xxxx xxxx xxxx xxxx	31.7	30.2	28.5	22.6	
xxxx xxxx xxxx xxxx	32.1	30.6	28.9	23.0	
Motor & Pump P - 1502 Splitter Reflux Pu	48.2	41.5	41.5	41.5	
Motor & Pump P - 1503 Splitter Bottoms P	49.2	42.5	42.5	42.5	
Motor & Pump P - 1504 Splitter Bottoms P	49.5	42.8	42.8	42.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1507 Reactor Pump	47.7	41.1	41.1	41.1	
Motor & Pump P - 1508 Reactor Pump	47.6	40.9	40.9	40.9	
Motor & Pump P - 1511 Stabilizer Reflux	51.3	44.6	44.6	44.6	
Motor & Pump P - 1512 Stabilizer Reflux	46.7	40.1	40.1	40.1	
Motor & Pump P - 1513 Caustic Circulatin	45.4	38.8	38.8	38.8	
Motor & Pump P - 1514 Caustic Circulatin	46.8	40.1	40.1	40.1	
Motor & Pump P 120/121	55.3	48.6	48.6	48.6	
Motor & Pump P 1505 FRESH FEED PUMPS	47.7	41.0	41.0	41.0	
Motor & Pump P 1506 FRESH FEED PUMPS	47.8	41.1	41.1	41.1	
Motor & Pump P 1509 Chloride Injection P	52.7	46.0	46.0	46.0	
Motor & Pump P 1510 Chloride Injection P	52.8	46.2	46.2	46.2	
Motor & Pump P 1601 A	51.4	44.7	44.7	44.7	
Motor & Pump P 1601 B	48.6	41.9	41.9	41.9	
Motor & Pump P 1602 A	49.6	42.9	42.9	42.9	
Motor & Pump P 1602 B	49.4	42.7	42.7	42.7	
Motor & Pump P 211/212	40.9	34.3	34.3	34.3	
Motor & Pump P 215/214	37.4	30.7	30.7	30.7	
Motor & Pump P 216	42.6	35.9	35.9	35.9	
Motor & Pump P 217/218	37.3	30.7	30.7	30.7	
Motor & Pump P 300	50.2	43.5	43.5	43.5	
Motor & Pump P 301	52.4	45.8	45.8	45.8	
Motor & Pump P 302	50.8	44.1	44.1	44.1	
Motor & Pump P 303	51.2	44.5	44.5	44.5	
Motor & Pump P 305	52.8	46.2	46.2	46.2	
Motor & Pump P 306	60.3	53.7	53.7	53.7	
Motor & Pump P 307	51.9	45.2	45.2	45.2	
Motor & Pump P 309	52.6	46.0	46.0	46.0	
Motor & Pump P 312	45.9	39.2	39.2	39.2	
Motor & Pump P 313	44.9	38.2	38.2	38.2	
Motor & Pump P 315	46.9	40.2	40.2	40.2	
Motor & Pump P 316	46.9	40.2	40.2	40.2	
Motor & Pump P 317	46.6	39.9	39.9	39.9	
Motor & Pump P 318	44.1	37.4	37.4	37.4	
Motor & Pump P 319	43.9	37.2	37.2	37.2	
Motor & Pump P 327	55.7	49.1	49.1	49.1	
Motor & Pump P 328	63.8	57.1	57.1	57.1	
Motor & Pump P 329	62.3	55.6	55.6	55.6	
Motor & Pump P 451	33.1	26.4	26.4	26.4	
Motor & Pump P 453	36.1	29.4	29.4	29.4	
Motor & Pump P 454	39.6	32.9	32.9	32.9	
Motor & Pump P 457	39.0	32.3	32.3	32.3	
Motor & Pump P 458	32.2	25.5	25.5	25.5	
Motor & Pump P 459	39.5	32.8	32.8	32.8	
Motor & Pump P 56A/B	42.4	35.7	35.7	35.7	
Nitrogen Skid w Compressor 18-PK 1806	63.2	56.5	56.5	56.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-060 A/B	22.0	15.3	15.3	15.3	
P-1101 A	23.2	16.5	16.5	16.5	
P-1103	23.3	16.6	16.6	16.6	
P-1105 A/B/C	24.1	17.4	17.4	17.4	
P-1800	23.2	16.5	16.5	16.5	
P-1801	20.9	14.2	14.2	14.2	
P-1802	18.6	11.9	11.9	11.9	
P-1803	22.0	15.4	15.4	15.4	
P-1804	23.6	17.0	17.0	17.0	
P-1805	22.5	15.8	15.8	15.8	
P-1806	25.3	18.6	18.6	18.6	
P-1809 A	24.3	17.7	17.7	17.7	
P-1810 A/B/C	21.3	14.6	14.6	14.6	
P-1811 A/B	27.5	20.9	20.9	20.9	
P-1811 A/B	22.7	16.1	16.1	16.1	
P-1847 A/B	28.1	21.4	21.4	21.4	
P-1849 A/B	27.0	20.3	20.3	20.3	
P-1853	28.6	21.9	21.9	21.9	
P-2 A/B	23.5	16.9	16.9	16.9	
P-251 A/B	29.5	22.9	22.9	22.9	
P-252 A/B	27.6	20.9	20.9	20.9	
P-253	27.4	20.8	20.8	20.8	
P-254 A/B	27.1	20.4	20.4	20.4	
P-255 A/B	27.3	20.6	20.6	20.6	
P-255 A/B	28.7	22.0	22.0	22.0	
P-256 A/B	28.4	21.8	21.8	21.8	
P-259 A/B	29.8	23.2	23.2	23.2	
P-260	28.7	22.1	22.1	22.1	
P-261 A/B	27.0	20.4	20.4	20.4	
P-262 A/B	29.2	22.5	22.5	22.5	
P-263 A/B	30.1	23.5	23.5	23.5	
P-270 A/B	26.5	19.9	19.9	19.9	
P-271 A/B	27.0	20.4	20.4	20.4	
P-272 A/B	27.0	20.3	20.3	20.3	
P-273 A/B	26.0	19.3	19.3	19.3	
P-275 A/B/C	24.6	17.9	17.9	17.9	
P-305	22.6	16.0	16.0	16.0	
P-306	26.4	19.8	19.8	19.8	
P-309	22.5	15.8	15.8	15.8	
P-328	23.5	16.8	16.8	16.8	
P-329	26.5	19.8	19.8	19.8	
P-353	24.4	17.7	17.7	17.7	
P-358 A/B	26.0	19.3	19.3	19.3	
P-359 A/B	26.8	20.2	20.2	20.2	
P-360 A/B	24.0	17.3	17.3	17.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-361A	25.4	18.8	18.8	18.8	
P-371 A/B	31.5	24.8	24.8	24.8	
P-373 A/B	36.7	30.0	30.0	30.0	
P-374 A/B	37.8	31.1	31.1	31.1	
P-375 A/B	41.6	35.0	35.0	35.0	
P-376	38.7	32.0	32.0	32.0	
P-376 A/B	35.3	28.6	28.6	28.6	
P-377	39.6	32.9	32.9	32.9	
P-50 A/B	20.0	13.3	13.3	13.3	
P-51 A/B	20.9	14.2	14.2	14.2	
P-63	24.6	17.9	17.9	17.9	
P-70 A/B	20.2	13.6	13.6	13.6	
P-73 A/B	20.6	13.9	13.9	13.9	
Piping Furnace Tanks	16.2	9.6	9.6	9.6	
Piping Hydrogen Tanks Compressor	25.5	18.8	18.8	18.8	
Piping Hydrogen Tanks Compressor w NC	44.2	37.5	37.5	37.5	
Piping Hydrogen Tanks Compressorw NC	41.1	34.5	34.5	34.5	
Pre-Treat Train-Pre-Treat Outside Area E	32.5	25.9	25.9	25.9	
Pre-Treat Train-Pre-Treat Outside Area N	43.1	36.5	36.5	36.5	
Pre-Treat Train-Pre-Treat Outside Area N2	32.6	26.0	26.0	26.0	
Pre-Treat Train-Pre-Treat Outside Area S	34.9	28.2	28.2	28.2	
Pre-Treat Train-Pre-Treat Outside Area S2	28.9	22.2	22.2	22.2	
Pre-Treat Train-Pre-Treat Outside Area W1	32.4	25.7	25.7	25.7	
Pre-Treat Train-Pre-Treat Outside Area W2	35.8	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area W3	32.2	25.5	25.5	25.5	
Pre-Treat Train-Roof 01	43.1	36.5	36.5	36.5	
PSA Pipe 3" Lagging	16.0	9.3	9.3	9.3	
PSA Skid Additional Piping w NC	46.3	39.6	39.6	39.6	
Reformer-Burner Reformer East	39.9	33.2	33.2	33.2	
Reformer-Burner Reformer North	33.6	27.0	27.0	27.0	
Reformer-Burner Reformer South	31.8	25.1	25.1	25.1	
Reformer-Burner Reformer West	30.6	23.9	23.9	23.9	
xxxx xxxx xxxx xxxx	13.2	6.9		6.9	
xxxx xxxx xxxx xxxx	12.8	6.5		6.5	
RFG A from battery to process	26.6	19.9	19.9	19.9	
RFG A from battery to process w NC	41.0	34.4	34.4	34.4	
xxxx xxxx xxxx xxxx	20.7	19.2	17.5	11.6	
xxxx xxxx xxxx xxxx	21.4	19.9	18.2	12.2	
Stack Noise	49.2	42.5	42.5	42.5	
Steam Turbine-Facade 01	27.1	20.4	20.4	20.4	
Steam Turbine-Facade 02	23.3	16.7	16.7	16.7	
Steam Turbine-Facade 03	27.2	20.5	20.5	20.5	
Steam Turbine-Facade 04	24.4	17.7	17.7	17.7	
Steam Turbine-Roof 01	27.2	20.5	20.5	20.5	
Tank Farm Pump 1	28.2	21.5	21.5	21.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 2	25.6	18.9	18.9	18.9	
Tank Farm Pump 3	26.2	19.5	19.5	19.5	
UP Train Locomotive Delivery and Pickup 2022 2x	34.6	37.6			
XF-1502 Splitter Area 1	54.7	48.1	48.1	48.1	
XF-1502 Splitter Area 2	54.3	47.7	47.7	47.7	
XF-1504 Splitter Area 1	52.5	45.8	45.8	45.8	
XF-1504 Splitter Area 2	52.4	45.8	45.8	45.8	
XF - 1601	45.8	39.2	39.2	39.2	
XF - 1602	49.1	42.4	42.4	42.4	
XF 251, 250, 271, 270	33.8	27.1	27.1	27.1	
XF 260, 261A, 261 B	35.7	29.1	29.1	29.1	
XF 304, XF 321	57.8	51.1	51.1	51.1	
XF 313, XF 314	58.7	52.1	52.1	52.1	
XF 335-1, XF 335-2	60.1	53.4	53.4	53.4	
XF 353A/B	28.9	22.2	22.2	22.2	
XF 353A/B	28.3	21.6	21.6	21.6	
XF 354A/B	29.2	22.5	22.5	22.5	
XF 503	60.0	53.3	53.3	53.3	
XF Module 1510	57.8	51.1	51.1	51.1	
XF Module 1519	59.0	52.3	52.3	52.3	
Receiver MH-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.4 dB(A) Ld 7-19 dB(A) Leq,N 64.4 dB(A) Le 19-					
ID Fan Motor	35.6	28.9	28.9	28.9	
18-1855 A/B	28.1	21.4	21.4	21.4	
18-1856 A/B	28.0	21.3	21.3	21.3	
18-1857 A/B	30.8	24.1	24.1	24.1	
18-1858 A/B	29.9	23.3	23.3	23.3	
18-PK 1802 Air Compressor Package	36.2	29.5	29.5	29.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	37.6	39.0	36.5		
Air Compressor C 1	53.9	47.3	47.3	47.3	
Air Compressor Pump	26.5	19.8	19.8	19.8	
Blower F 401	56.2	49.5	49.5	49.5	
Boiler Crude Unit-Heater Opening	26.0	19.3	19.3	19.3	
Boiler Feed Water Pump A	28.1	21.5	21.5	21.5	
Boiler Feed Water Pump B	28.3	21.6	21.6	21.6	
C-270 A	38.3	31.7	31.7	31.7	
C-270 B	39.1	32.4	32.4	32.4	
C-270 C	38.5	31.8	31.8	31.8	
C-301 Compressor	38.3	31.7	31.7	31.7	
C-301 Motor	37.1	30.4	30.4	30.4	
C-351 Compressor	38.4	31.7	31.7	31.7	
C-351 Motor	32.3	25.6	25.6	25.6	
C370 A Motor	34.9	28.3	28.3	28.3	
C370 B Motor	39.3	32.7	32.7	32.7	
C370A	35.0	28.4	28.4	28.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C370B	34.7	28.0	28.0	28.0	
Cars Pumping 6 times in during delivery	35.4	38.4			
Compressor House C301, C302, C 124-Comp House East 1	49.0	42.3	42.3	42.3	
Compressor House C301, C302, C 124-Comp House East 2	50.2	43.5	43.5	43.5	
Compressor House C301, C302, C 124-Comp House North	56.0	49.3	49.3	49.3	
Compressor House C301, C302, C 124-Comp House South 1	37.8	31.2	31.2	31.2	
Compressor House C301, C302, C 124-Comp House South 2	33.9	27.3	27.3	27.3	
Compressor House C301, C302, C 124-Comp House West	28.2	21.5	21.5	21.5	
xxxx xxxx xxxx xxxx	44.1	37.4	37.4	37.4	
Cooling Tower CT 510-CT 510 East Side	50.0	43.3	43.3	43.3	
Cooling Tower CT 510-CT 510 West Side	39.6	33.0	33.0	33.0	
Cooling Tower CT 511-CT 511 East Side	32.5	25.8	25.8	25.8	
Cooling Tower CT 511-CT 511 West Side	40.4	33.7	33.7	33.7	
Cooling Tower M 512	30.6	23.9	23.9	23.9	
Cooling Tower M 513	30.2	23.5	23.5	23.5	
Cooling Tower M 514	32.1	25.5	25.5	25.5	
xxxx xxxx xxxx xxxx	41.5	35.2		35.2	
xxxx xxxx xxxx xxxx	39.9	38.4	36.7	30.7	
xxxx xxxx xxxx xxxx	39.9	38.4	36.7	30.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	27.7	21.0	21.0	21.0	
FD Fan Assembly-FD Fan - East	33.4	26.7	26.7	26.7	
FD Fan Assembly-FD Fan - North	33.1	26.4	26.4	26.4	
FD Fan Assembly-FD Fan - Roof	34.1	27.4	27.4	27.4	
FD Fan Assembly-FD Fan - South	32.7	26.0	26.0	26.0	
FD Fan Assembly-FD Fan - West	40.1	33.4	33.4	33.4	
FD Motor	31.7	25.0	25.0	25.0	
Feed Compressor-A Compressor	34.1	27.4	27.4	27.4	
Feed Compressor-A Motor	32.4	25.7	25.7	25.7	
Feed Compressor-B Compressor	37.9	31.2	31.2	31.2	
Feed Compressor -B Motor	34.1	27.4	27.4	27.4	
H2S Compressor 18-C-271	58.0	51.4	51.4	51.4	
Heater # 5-Heater	20.0	13.3	13.3	13.3	
Heater # 5-Heater	20.9	14.3	14.3	14.3	
Heater # 5-Heater	21.0	14.3	14.3	14.3	
Hydro Heater H-402	42.2	35.5	35.5	35.5	
ID Fan-ID Fan - East (128302)	25.4	18.7	18.7	18.7	
ID Fan-ID Fan - East 1 (128306)	24.6	18.0	18.0	18.0	
ID Fan-ID Fan - North	34.3	27.6	27.6	27.6	
ID Fan-ID Fan - North 2	31.5	24.8	24.8	24.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan-ID Fan - South	30.0	23.3	23.3	23.3	
ID Fan-ID Fan - South 2	29.5	22.8	22.8	22.8	
ID Fan-ID Fan Roof 01 (128293)	34.0	27.4	27.4	27.4	
xxxx xxxx xxxx xxxx	32.1	30.6	28.9	23.0	
xxxx xxxx xxxx xxxx	32.4	30.9	29.2	23.3	
Motor & Pump P - 1502 Splitter Reflux Pu	47.0	40.4	40.4	40.4	
Motor & Pump P - 1503 Splitter Bottoms P	48.3	41.7	41.7	41.7	
Motor & Pump P - 1504 Splitter Bottoms P	48.8	42.1	42.1	42.1	
Motor & Pump P - 1507 Reactor Pump	50.0	43.3	43.3	43.3	
Motor & Pump P - 1508 Reactor Pump	49.8	43.1	43.1	43.1	
Motor & Pump P - 1511 Stabilizer Reflux	47.7	41.0	41.0	41.0	
Motor & Pump P - 1512 Stabilizer Reflux	47.5	40.9	40.9	40.9	
Motor & Pump P - 1513 Caustic Circulatin	48.0	41.3	41.3	41.3	
Motor & Pump P - 1514 Caustic Circulatin	47.2	40.6	40.6	40.6	
Motor & Pump P 120/121	53.1	46.4	46.4	46.4	
Motor & Pump P 1505 FRESH FEED PUMPS	49.7	43.0	43.0	43.0	
Motor & Pump P 1506 FRESH FEED PUMPS	49.5	42.8	42.8	42.8	
Motor & Pump P 1509 Chloride Injection P	51.1	44.5	44.5	44.5	
Motor & Pump P 1510 Chloride Injection P	51.1	44.4	44.4	44.4	
Motor & Pump P 1601 A	40.8	34.1	34.1	34.1	
Motor & Pump P 1601 B	32.6	25.9	25.9	25.9	
Motor & Pump P 1602 A	34.0	27.3	27.3	27.3	
Motor & Pump P 1602 B	46.8	40.2	40.2	40.2	
Motor & Pump P 211/212	41.8	35.1	35.1	35.1	
Motor & Pump P 215/214	39.3	32.6	32.6	32.6	
Motor & Pump P 216	41.5	34.8	34.8	34.8	
Motor & Pump P 217/218	41.5	34.8	34.8	34.8	
Motor & Pump P 300	52.6	45.9	45.9	45.9	
Motor & Pump P 301	57.7	51.0	51.0	51.0	
Motor & Pump P 302	53.0	46.4	46.4	46.4	
Motor & Pump P 303	52.6	45.9	45.9	45.9	
Motor & Pump P 305	51.2	44.5	44.5	44.5	
Motor & Pump P 306	53.6	46.9	46.9	46.9	
Motor & Pump P 307	56.0	49.3	49.3	49.3	
Motor & Pump P 309	45.4	38.7	38.7	38.7	
Motor & Pump P 312	42.8	36.1	36.1	36.1	
Motor & Pump P 313	43.4	36.8	36.8	36.8	
Motor & Pump P 315	48.2	41.5	41.5	41.5	
Motor & Pump P 316	49.8	43.1	43.1	43.1	
Motor & Pump P 317	51.5	44.9	44.9	44.9	
Motor & Pump P 318	44.7	38.0	38.0	38.0	
Motor & Pump P 319	43.8	37.1	37.1	37.1	
Motor & Pump P 327	53.9	47.2	47.2	47.2	
Motor & Pump P 328	56.2	49.5	49.5	49.5	
Motor & Pump P 329	53.7	47.1	47.1	47.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 451	33.4	26.7	26.7	26.7	
Motor & Pump P 453	45.3	38.6	38.6	38.6	
Motor & Pump P 454	31.5	24.8	24.8	24.8	
Motor & Pump P 457	43.4	36.7	36.7	36.7	
Motor & Pump P 458	36.8	30.1	30.1	30.1	
Motor & Pump P 459	30.5	23.8	23.8	23.8	
Motor & Pump P 56A/B	34.8	28.1	28.1	28.1	
Nitrogen Skid w Compressor 18-PK 1806	56.6	49.9	49.9	49.9	
P-060 A/B	25.1	18.4	18.4	18.4	
P-1101 A	23.5	16.9	16.9	16.9	
P-1103	23.5	16.9	16.9	16.9	
P-1105 A/B/C	24.3	17.7	17.7	17.7	
P-1800	25.3	18.6	18.6	18.6	
P-1801	21.4	14.7	14.7	14.7	
P-1802	18.9	12.3	12.3	12.3	
P-1803	24.8	18.1	18.1	18.1	
P-1804	23.4	16.7	16.7	16.7	
P-1805	21.9	15.3	15.3	15.3	
P-1806	28.2	21.5	21.5	21.5	
P-1809 A	24.4	17.7	17.7	17.7	
P-1810 A/B/C	21.7	15.0	15.0	15.0	
P-1811 A/B	27.4	20.7	20.7	20.7	
P-1811 A/B	22.0	15.4	15.4	15.4	
P-1847 A/B	28.2	21.6	21.6	21.6	
P-1849 A/B	28.2	21.6	21.6	21.6	
P-1853	23.7	17.1	17.1	17.1	
P-2 A/B	24.4	17.8	17.8	17.8	
P-251 A/B	26.9	20.2	20.2	20.2	
P-252 A/B	27.9	21.2	21.2	21.2	
P-253	26.3	19.6	19.6	19.6	
P-254 A/B	25.1	18.4	18.4	18.4	
P-255 A/B	27.4	20.8	20.8	20.8	
P-255 A/B	26.6	19.9	19.9	19.9	
P-256 A/B	26.1	19.4	19.4	19.4	
P-259 A/B	26.7	20.0	20.0	20.0	
P-260	27.7	21.1	21.1	21.1	
P-261 A/B	26.0	19.3	19.3	19.3	
P-262 A/B	28.1	21.4	21.4	21.4	
P-263 A/B	30.3	23.7	23.7	23.7	
P-270 A/B	27.8	21.1	21.1	21.1	
P-271 A/B	25.8	19.2	19.2	19.2	
P-272 A/B	25.8	19.1	19.1	19.1	
P-273 A/B	26.6	20.0	20.0	20.0	
P-275 A/B/C	28.3	21.7	21.7	21.7	
P-305	24.6	17.9	17.9	17.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-306	26.8	20.2	20.2	20.2	
P-309	24.4	17.7	17.7	17.7	
P-328	28.2	21.6	21.6	21.6	
P-329	26.3	19.6	19.6	19.6	
P-353	24.4	17.8	17.8	17.8	
P-358 A/B	24.6	17.9	17.9	17.9	
P-359 A/B	24.8	18.1	18.1	18.1	
P-360 A/B	23.4	16.8	16.8	16.8	
P-361A	26.1	19.4	19.4	19.4	
P-371 A/B	32.1	25.4	25.4	25.4	
P-373 A/B	29.8	23.2	23.2	23.2	
P-374 A/B	34.0	27.3	27.3	27.3	
P-375 A/B	36.8	30.2	30.2	30.2	
P-376	34.0	27.3	27.3	27.3	
P-376 A/B	29.4	22.7	22.7	22.7	
P-377	33.6	26.9	26.9	26.9	
P-50 A/B	20.5	13.9	13.9	13.9	
P-51 A/B	22.1	15.4	15.4	15.4	
P-63	25.3	18.6	18.6	18.6	
P-70 A/B	20.9	14.2	14.2	14.2	
P-73 A/B	20.7	14.1	14.1	14.1	
Piping Furnace Tanks	18.3	11.7	11.7	11.7	
Piping Hydrogen Tanks Compressor	28.4	21.7	21.7	21.7	
Piping Hydrogen Tanks Compressor w NC	44.1	37.4	37.4	37.4	
Piping Hydrogen Tanks Compressorw NC	42.0	35.3	35.3	35.3	
Pre-Treat Train-Pre-Treat Outside Area E	33.1	26.4	26.4	26.4	
Pre-Treat Train-Pre-Treat Outside Area N	43.5	36.8	36.8	36.8	
Pre-Treat Train-Pre-Treat Outside Area N2	35.2	28.5	28.5	28.5	
Pre-Treat Train-Pre-Treat Outside Area S	34.6	27.9	27.9	27.9	
Pre-Treat Train-Pre-Treat Outside Area S2	28.5	21.9	21.9	21.9	
Pre-Treat Train-Pre-Treat Outside Area W1	34.7	28.1	28.1	28.1	
Pre-Treat Train-Pre-Treat Outside Area W2	38.5	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area W3	34.1	27.4	27.4	27.4	
Pre-Treat Train-Roof 01	45.5	38.8	38.8	38.8	
PSA Pipe 3" Lagging	12.8	6.2	6.2	6.2	
PSA Skid Additional Piping w NC	46.1	39.5	39.5	39.5	
Reformer-Burner Reformer East	40.5	33.9	33.9	33.9	
Reformer-Burner Reformer North	34.6	27.9	27.9	27.9	
Reformer-Burner Reformer South	31.2	24.5	24.5	24.5	
Reformer-Burner Reformer West	30.8	24.1	24.1	24.1	
xxxx xxxx xxxx xxxx	15.1	8.8		8.8	
xxxx xxxx xxxx xxxx	17.9	11.6		11.6	
RFG A from battery to process	29.6	23.0	23.0	23.0	
RFG A from battery to process w NC	41.8	35.1	35.1	35.1	
xxxx xxxx xxxx xxxx	25.7	24.2	22.5	16.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	26.0	24.5	22.7	16.8	
Stack Noise	49.7	43.0	43.0	43.0	
Steam Turbine-Facade 01	27.4	20.7	20.7	20.7	
Steam Turbine-Facade 02	24.2	17.5	17.5	17.5	
Steam Turbine-Facade 03	27.3	20.6	20.6	20.6	
Steam Turbine-Facade 04	24.0	17.3	17.3	17.3	
Steam Turbine-Roof 01	27.2	20.5	20.5	20.5	
Tank Farm Pump 1	27.9	21.2	21.2	21.2	
Tank Farm Pump 2	27.1	20.5	20.5	20.5	
Tank Farm Pump 3	27.2	20.6	20.6	20.6	
UP Train Locomotive Delivery and Pickup 2022 2x	33.3	36.3			
XF-1502 Splitter Area 1	54.8	48.2	48.2	48.2	
XF-1502 Splitter Area 2	54.6	47.9	47.9	47.9	
XF-1504 Splitter Area 1	55.3	48.7	48.7	48.7	
XF-1504 Splitter Area 2	55.1	48.4	48.4	48.4	
XF - 1601	41.3	34.6	34.6	34.6	
XF - 1602	40.6	33.9	33.9	33.9	
XF 251, 250, 271, 270	38.3	31.6	31.6	31.6	
XF 260, 261A, 261 B	34.3	27.6	27.6	27.6	
XF 304, XF 321	56.9	50.2	50.2	50.2	
XF 313, XF 314	57.3	50.6	50.6	50.6	
XF 335-1, XF 335-2	59.4	52.8	52.8	52.8	
XF 353A/B	27.0	20.4	20.4	20.4	
XF 353A/B	26.9	20.3	20.3	20.3	
XF 354A/B	28.7	22.0	22.0	22.0	
XF 503	56.8	50.1	50.1	50.1	
XF Module 1510	57.8	51.2	51.2	51.2	
XF Module 1519	59.0	52.4	52.4	52.4	
Receiver MH-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 62.1 dB(A) Ld 7-19 dB(A) Leq,N 62.0 dB(A) Le 19-					
ID Fan Motor	37.9	31.2	31.2	31.2	
18-1855 A/B	27.0	20.4	20.4	20.4	
18-1856 A/B	26.9	20.2	20.2	20.2	
18-1857 A/B	30.2	23.5	23.5	23.5	
18-1858 A/B	30.2	23.6	23.6	23.6	
18-PK 1802 Air Compressor Package	37.1	30.4	30.4	30.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	39.3	40.7	38.3		
Air Compressor C 1	55.1	48.4	48.4	48.4	
Air Compressor Pump	27.4	20.7	20.7	20.7	
Blower F 401	54.5	47.8	47.8	47.8	
Boiler Crude Unit-Heater Opening	25.5	18.8	18.8	18.8	
Boiler Feed Water Pump A	26.9	20.2	20.2	20.2	
Boiler Feed Water Pump B	26.9	20.3	20.3	20.3	
C-270 A	44.9	38.3	38.3	38.3	
C-270 B	47.5	40.8	40.8	40.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C-270 C	43.3	36.6	36.6	36.6	
C-301 Compressor	44.5	37.8	37.8	37.8	
C-301 Motor	41.8	35.2	35.2	35.2	
C-351 Compressor	36.7	30.1	30.1	30.1	
C-351 Motor	38.1	31.4	31.4	31.4	
C370 A Motor	33.9	27.2	27.2	27.2	
C370 B Motor	52.8	46.2	46.2	46.2	
C370A	34.2	27.5	27.5	27.5	
C370B	48.2	41.5	41.5	41.5	
Cars Pumping 6 times in during delivery	35.2	38.2			
Compressor House C301, C302, C 124-Comp House East 1	48.2	41.5	41.5	41.5	
Compressor House C301, C302, C 124-Comp House East 2	47.9	41.2	41.2	41.2	
Compressor House C301, C302, C 124-Comp House North	55.2	48.5	48.5	48.5	
Compressor House C301, C302, C 124-Comp House South 1	37.1	30.4	30.4	30.4	
Compressor House C301, C302, C 124-Comp House South 2	33.0	26.3	26.3	26.3	
Compressor House C301, C302, C 124-Comp House West	25.9	19.2	19.2	19.2	
xxxx xxxx xxxx xxxx	47.3	40.6	40.6	40.6	
Cooling Tower CT 510-CT 510 East Side	38.8	32.1	32.1	32.1	
Cooling Tower CT 510-CT 510 West Side	32.7	26.0	26.0	26.0	
Cooling Tower CT 511-CT 511 East Side	49.4	42.7	42.7	42.7	
Cooling Tower CT 511-CT 511 West Side	29.0	22.3	22.3	22.3	
Cooling Tower M 512	27.3	20.6	20.6	20.6	
Cooling Tower M 513	27.2	20.5	20.5	20.5	
Cooling Tower M 514	27.4	20.7	20.7	20.7	
xxxx xxxx xxxx xxxx	43.3	37.0		37.0	
xxxx xxxx xxxx xxxx	38.9	37.4	35.7	29.8	
xxxx xxxx xxxx xxxx	38.8	37.3	35.6	29.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	32.9	26.2	26.2	26.2	
FD Fan Assembly-FD Fan - East	35.3	28.6	28.6	28.6	
FD Fan Assembly-FD Fan - North	36.2	29.5	29.5	29.5	
FD Fan Assembly-FD Fan - Roof	37.0	30.3	30.3	30.3	
FD Fan Assembly-FD Fan - South	35.6	29.0	29.0	29.0	
FD Fan Assembly-FD Fan - West	40.8	34.1	34.1	34.1	
FD Motor	34.7	28.0	28.0	28.0	
Feed Compressor-A Compressor	37.6	31.0	31.0	31.0	
Feed Compressor-A Motor	34.7	28.0	28.0	28.0	
Feed Compressor-B Compressor	45.4	38.7	38.7	38.7	
Feed Compressor -B Motor	42.7	36.1	36.1	36.1	
H2S Compressor 18-C-271	53.2	46.5	46.5	46.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	19.9	13.3	13.3	13.3	
Heater # 5-Heater	20.7	14.0	14.0	14.0	
Heater # 5-Heater	20.8	14.1	14.1	14.1	
Hydro Heater H-402	41.7	35.0	35.0	35.0	
ID Fan-ID Fan - East (128302)	27.0	20.3	20.3	20.3	
ID Fan-ID Fan - East 1 (128306)	26.0	19.3	19.3	19.3	
ID Fan-ID Fan - North	36.1	29.4	29.4	29.4	
ID Fan-ID Fan - North 2	34.8	28.1	28.1	28.1	
ID Fan-ID Fan - South	31.4	24.7	24.7	24.7	
ID Fan-ID Fan - South 2	30.9	24.2	24.2	24.2	
ID Fan-ID Fan Roof 01 (128293)	37.2	30.5	30.5	30.5	
xxxx xxxx xxxx xxxx	32.5	31.0	29.3	23.4	
xxxx xxxx xxxx xxxx	33.0	31.5	29.8	23.8	
Motor & Pump P - 1502 Splitter Reflux Pu	32.4	25.7	25.7	25.7	
Motor & Pump P - 1503 Splitter Bottoms P	33.0	26.3	26.3	26.3	
Motor & Pump P - 1504 Splitter Bottoms P	33.7	27.0	27.0	27.0	
Motor & Pump P - 1507 Reactor Pump	35.4	28.8	28.8	28.8	
Motor & Pump P - 1508 Reactor Pump	35.8	29.2	29.2	29.2	
Motor & Pump P - 1511 Stabilizer Reflux	31.6	24.9	24.9	24.9	
Motor & Pump P - 1512 Stabilizer Reflux	31.8	25.1	25.1	25.1	
Motor & Pump P - 1513 Caustic Circulatin	32.7	26.0	26.0	26.0	
Motor & Pump P - 1514 Caustic Circulatin	32.4	25.7	25.7	25.7	
Motor & Pump P 120/121	46.9	40.3	40.3	40.3	
Motor & Pump P 1505 FRESH FEED PUMPS	34.3	27.6	27.6	27.6	
Motor & Pump P 1506 FRESH FEED PUMPS	38.5	31.8	31.8	31.8	
Motor & Pump P 1509 Chloride Injection P	42.0	35.4	35.4	35.4	
Motor & Pump P 1510 Chloride Injection P	42.6	35.9	35.9	35.9	
Motor & Pump P 1601 A	31.2	24.5	24.5	24.5	
Motor & Pump P 1601 B	33.3	26.6	26.6	26.6	
Motor & Pump P 1602 A	38.4	31.7	31.7	31.7	
Motor & Pump P 1602 B	37.3	30.6	30.6	30.6	
Motor & Pump P 211/212	37.2	30.5	30.5	30.5	
Motor & Pump P 215/214	40.4	33.7	33.7	33.7	
Motor & Pump P 216	40.6	34.0	34.0	34.0	
Motor & Pump P 217/218	37.3	30.6	30.6	30.6	
Motor & Pump P 300	46.0	39.3	39.3	39.3	
Motor & Pump P 301	51.6	44.9	44.9	44.9	
Motor & Pump P 302	44.7	38.0	38.0	38.0	
Motor & Pump P 303	44.6	37.9	37.9	37.9	
Motor & Pump P 305	43.5	36.8	36.8	36.8	
Motor & Pump P 306	50.1	43.5	43.5	43.5	
Motor & Pump P 307	58.2	51.5	51.5	51.5	
Motor & Pump P 309	44.4	37.8	37.8	37.8	
Motor & Pump P 312	45.8	39.2	39.2	39.2	
Motor & Pump P 313	42.4	35.7	35.7	35.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 315	50.6	43.9	43.9	43.9	
Motor & Pump P 316	50.6	44.0	44.0	44.0	
Motor & Pump P 317	50.7	44.0	44.0	44.0	
Motor & Pump P 318	44.2	37.5	37.5	37.5	
Motor & Pump P 319	40.7	34.0	34.0	34.0	
Motor & Pump P 327	52.8	46.1	46.1	46.1	
Motor & Pump P 328	56.0	49.3	49.3	49.3	
Motor & Pump P 329	50.8	44.1	44.1	44.1	
Motor & Pump P 451	29.4	22.8	22.8	22.8	
Motor & Pump P 453	27.9	21.3	21.3	21.3	
Motor & Pump P 454	30.0	23.3	23.3	23.3	
Motor & Pump P 457	27.8	21.1	21.1	21.1	
Motor & Pump P 458	30.9	24.2	24.2	24.2	
Motor & Pump P 459	30.7	24.0	24.0	24.0	
Motor & Pump P 56A/B	39.4	32.8	32.8	32.8	
Nitrogen Skid w Compressor 18-PK 1806	51.8	45.1	45.1	45.1	
P-060 A/B	27.8	21.1	21.1	21.1	
P-1101 A	23.8	17.1	17.1	17.1	
P-1103	23.8	17.1	17.1	17.1	
P-1105 A/B/C	24.2	17.5	17.5	17.5	
P-1800	29.1	22.5	22.5	22.5	
P-1801	21.8	15.1	15.1	15.1	
P-1802	23.2	16.5	16.5	16.5	
P-1803	28.8	22.1	22.1	22.1	
P-1804	24.4	17.7	17.7	17.7	
P-1805	24.8	18.1	18.1	18.1	
P-1806	25.9	19.2	19.2	19.2	
P-1809 A	27.1	20.4	20.4	20.4	
P-1810 A/B/C	22.1	15.5	15.5	15.5	
P-1811 A/B	27.6	21.0	21.0	21.0	
P-1811 A/B	22.5	15.9	15.9	15.9	
P-1847 A/B	28.1	21.5	21.5	21.5	
P-1849 A/B	28.0	21.3	21.3	21.3	
P-1853	25.9	19.2	19.2	19.2	
P-2 A/B	24.5	17.9	17.9	17.9	
P-251 A/B	26.4	19.7	19.7	19.7	
P-252 A/B	26.9	20.2	20.2	20.2	
P-253	27.4	20.8	20.8	20.8	
P-254 A/B	27.1	20.4	20.4	20.4	
P-255 A/B	26.4	19.7	19.7	19.7	
P-255 A/B	24.7	18.0	18.0	18.0	
P-256 A/B	26.4	19.7	19.7	19.7	
P-259 A/B	24.6	18.0	18.0	18.0	
P-260	26.3	19.6	19.6	19.6	
P-261 A/B	26.8	20.2	20.2	20.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-262 A/B	27.2	20.6	20.6	20.6	
P-263 A/B	26.2	19.5	19.5	19.5	
P-270 A/B	26.4	19.7	19.7	19.7	
P-271 A/B	28.0	21.4	21.4	21.4	
P-272 A/B	27.6	21.0	21.0	21.0	
P-273 A/B	25.7	19.1	19.1	19.1	
P-275 A/B/C	28.2	21.5	21.5	21.5	
P-305	24.3	17.6	17.6	17.6	
P-306	25.6	19.0	19.0	19.0	
P-309	24.0	17.3	17.3	17.3	
P-328	28.3	21.6	21.6	21.6	
P-329	28.4	21.8	21.8	21.8	
P-353	23.6	16.9	16.9	16.9	
P-358 A/B	27.6	20.9	20.9	20.9	
P-359 A/B	24.7	18.0	18.0	18.0	
P-360 A/B	23.7	17.0	17.0	17.0	
P-361A	25.5	18.9	18.9	18.9	
P-371 A/B	47.4	40.8	40.8	40.8	
P-373 A/B	37.6	31.0	31.0	31.0	
P-374 A/B	39.6	33.0	33.0	33.0	
P-375 A/B	51.6	44.9	44.9	44.9	
P-376	43.3	36.6	36.6	36.6	
P-376 A/B	36.2	29.6	29.6	29.6	
P-377	47.9	41.2	41.2	41.2	
P-50 A/B	21.1	14.4	14.4	14.4	
P-51 A/B	27.6	20.9	20.9	20.9	
P-63	28.9	22.2	22.2	22.2	
P-70 A/B	21.2	14.5	14.5	14.5	
P-73 A/B	22.0	15.4	15.4	15.4	
Piping Furnace Tanks	26.9	20.2	20.2	20.2	
Piping Hydrogen Tanks Compressor	35.6	29.0	29.0	29.0	
Piping Hydrogen Tanks Compressor w NC	44.6	38.0	38.0	38.0	
Piping Hydrogen Tanks Compressorw NC	43.3	36.7	36.7	36.7	
Pre-Treat Train-Pre-Treat Outside Area E	33.7	27.0	27.0	27.0	
Pre-Treat Train-Pre-Treat Outside Area N	45.3	38.6	38.6	38.6	
Pre-Treat Train-Pre-Treat Outside Area N2	35.0	28.3	28.3	28.3	
Pre-Treat Train-Pre-Treat Outside Area S	34.4	27.7	27.7	27.7	
Pre-Treat Train-Pre-Treat Outside Area S2	28.4	21.7	21.7	21.7	
Pre-Treat Train-Pre-Treat Outside Area W1	35.7	29.0	29.0	29.0	
Pre-Treat Train-Pre-Treat Outside Area W2	37.9	31.2	31.2	31.2	
Pre-Treat Train-Pre-Treat Outside Area W3	33.0	26.3	26.3	26.3	
Pre-Treat Train-Roof 01	44.4	37.8	37.8	37.8	
PSA Pipe 3" Lagging	13.3	6.6	6.6	6.6	
PSA Skid Additional Piping w NC	46.5	39.8	39.8	39.8	
Reformer-Burner Reformer East	53.3	46.6	46.6	46.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Reformer-Burner Reformer North	48.6	42.0	42.0	42.0	
Reformer-Burner Reformer South	36.1	29.4	29.4	29.4	
Reformer-Burner Reformer West	33.1	26.4	26.4	26.4	
xxxx xxxx xxxx xxxx	14.1	7.8		7.8	
xxxx xxxx xxxx xxxx	20.3	14.0		14.0	
RFG A from battery to process	37.8	31.1	31.1	31.1	
RFG A from battery to process w NC	42.9	36.3	36.3	36.3	
xxxx xxxx xxxx xxxx	26.1	24.6	22.9	17.0	
xxxx xxxx xxxx xxxx	26.8	25.3	23.6	17.7	
Stack Noise	49.5	42.8	42.8	42.8	
Steam Turbine-Facade 01	27.5	20.8	20.8	20.8	
Steam Turbine-Facade 02	24.2	17.5	17.5	17.5	
Steam Turbine-Facade 03	27.3	20.7	20.7	20.7	
Steam Turbine-Facade 04	24.4	17.8	17.8	17.8	
Steam Turbine-Roof 01	27.4	20.8	20.8	20.8	
Tank Farm Pump 1	28.3	21.6	21.6	21.6	
Tank Farm Pump 2	28.1	21.5	21.5	21.5	
Tank Farm Pump 3	27.7	21.0	21.0	21.0	
UP Train Locomotive Delivery and Pickup 2022 2x	33.1	36.1			
XF-1502 Splitter Area 1	38.1	31.4	31.4	31.4	
XF-1502 Splitter Area 2	36.9	30.2	30.2	30.2	
XF-1504 Splitter Area 1	37.4	30.7	30.7	30.7	
XF-1504 Splitter Area 2	37.1	30.4	30.4	30.4	
XF - 1601	38.0	31.3	31.3	31.3	
XF - 1602	38.3	31.6	31.6	31.6	
XF 251, 250, 271, 270	40.9	34.3	34.3	34.3	
XF 260, 261A, 261 B	34.8	28.1	28.1	28.1	
XF 304, XF 321	56.0	49.3	49.3	49.3	
XF 313, XF 314	56.2	49.5	49.5	49.5	
XF 335-1, XF 335-2	58.0	51.3	51.3	51.3	
XF 353A/B	31.8	25.1	25.1	25.1	
XF 353A/B	32.1	25.5	25.5	25.5	
XF 354A/B	34.4	27.7	27.7	27.7	
XF 503	56.1	49.4	49.4	49.4	
XF Module 1510	42.0	35.3	35.3	35.3	
XF Module 1519	43.6	36.9	36.9	36.9	
Receiver MH-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.6 dB(A) Ld 7-19 dB(A) Leq,N 60.5 dB(A) Le 19-					
ID Fan Motor	39.8	33.2	33.2	33.2	
18-1855 A/B	27.2	20.6	20.6	20.6	
18-1856 A/B	27.1	20.4	20.4	20.4	
18-1857 A/B	27.9	21.2	21.2	21.2	
18-1858 A/B	28.7	22.1	22.1	22.1	
18-PK 1802 Air Compressor Package	34.2	27.6	27.6	27.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	35.7	37.1	34.6		

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	52.1	45.4	45.4	45.4	
Air Compressor Pump	31.0	24.4	24.4	24.4	
Blower F 401	49.3	42.6	42.6	42.6	
Boiler Crude Unit-Heater Opening	24.4	17.7	17.7	17.7	
Boiler Feed Water Pump A	25.5	18.9	18.9	18.9	
Boiler Feed Water Pump B	25.4	18.7	18.7	18.7	
C-270 A	37.6	30.9	30.9	30.9	
C-270 B	38.7	32.1	32.1	32.1	
C-270 C	40.1	33.4	33.4	33.4	
C-301 Compressor	38.2	31.6	31.6	31.6	
C-301 Motor	37.0	30.3	30.3	30.3	
C-351 Compressor	35.7	29.1	29.1	29.1	
C-351 Motor	34.7	28.0	28.0	28.0	
C370 A Motor	39.9	33.2	33.2	33.2	
C370 B Motor	43.3	36.6	36.6	36.6	
C370A	43.4	36.7	36.7	36.7	
C370B	43.9	37.2	37.2	37.2	
Cars Pumping 6 times in during delivery	32.2	35.2			
Compressor House C301, C302, C 124-Comp House East 1	41.3	34.6	34.6	34.6	
Compressor House C301, C302, C 124-Comp House East 2	38.4	31.7	31.7	31.7	
Compressor House C301, C302, C 124-Comp House North	46.4	39.7	39.7	39.7	
Compressor House C301, C302, C 124-Comp House South 1	33.9	27.2	27.2	27.2	
Compressor House C301, C302, C 124-Comp House South 2	28.4	21.7	21.7	21.7	
Compressor House C301, C302, C 124-Comp House West	22.5	15.9	15.9	15.9	
xxxx xxxx xxxx xxxx	47.0	40.4	40.4	40.4	
Cooling Tower CT 510-CT 510 East Side	37.2	30.5	30.5	30.5	
Cooling Tower CT 510-CT 510 West Side	23.0	16.3	16.3	16.3	
Cooling Tower CT 511-CT 511 East Side	43.9	37.3	37.3	37.3	
Cooling Tower CT 511-CT 511 West Side	28.3	21.6	21.6	21.6	
Cooling Tower M 512	26.9	20.2	20.2	20.2	
Cooling Tower M 513	26.7	20.0	20.0	20.0	
Cooling Tower M 514	27.0	20.3	20.3	20.3	
xxxx xxxx xxxx xxxx	45.0	38.7		38.7	
xxxx xxxx xxxx xxxx	38.0	36.5	34.8	28.9	
xxxx xxxx xxxx xxxx	38.0	36.5	34.8	28.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	27.9	21.3	21.3	21.3	
FD Fan Assembly-FD Fan - East	35.3	28.7	28.7	28.7	
FD Fan Assembly-FD Fan - North	34.6	27.9	27.9	27.9	
FD Fan Assembly-FD Fan - Roof	36.3	29.6	29.6	29.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FD Fan Assembly-FD Fan - South	34.3	27.6	27.6	27.6	
FD Fan Assembly-FD Fan - West	38.7	32.0	32.0	32.0	
FD Motor	35.7	29.1	29.1	29.1	
Feed Compressor-A Compressor	51.0	44.3	44.3	44.3	
Feed Compressor-A Motor	49.8	43.2	43.2	43.2	
Feed Compressor-B Compressor	50.9	44.2	44.2	44.2	
Feed Compressor -B Motor	49.7	43.0	43.0	43.0	
H2S Compressor 18-C-271	41.1	34.4	34.4	34.4	
Heater # 5-Heater	19.3	12.6	12.6	12.6	
Heater # 5-Heater	19.3	12.6	12.6	12.6	
Heater # 5-Heater	20.3	13.7	13.7	13.7	
Hydro Heater H-402	36.6	30.0	30.0	30.0	
ID Fan-ID Fan - East (128302)	26.7	20.0	20.0	20.0	
ID Fan-ID Fan - East 1 (128306)	26.3	19.7	19.7	19.7	
ID Fan-ID Fan - North	35.3	28.6	28.6	28.6	
ID Fan-ID Fan - North 2	33.1	26.5	26.5	26.5	
ID Fan-ID Fan - South	31.4	24.7	24.7	24.7	
ID Fan-ID Fan - South 2	30.9	24.2	24.2	24.2	
ID Fan-ID Fan Roof 01 (128293)	36.1	29.4	29.4	29.4	
xxxx xxxx xxxx xxxx	35.7	34.1	32.4	26.5	
xxxx xxxx xxxx xxxx	35.5	34.0	32.3	26.4	
Motor & Pump P - 1502 Splitter Reflux Pu	30.5	23.9	23.9	23.9	
Motor & Pump P - 1503 Splitter Bottoms P	31.7	25.1	25.1	25.1	
Motor & Pump P - 1504 Splitter Bottoms P	31.3	24.6	24.6	24.6	
Motor & Pump P - 1507 Reactor Pump	31.1	24.4	24.4	24.4	
Motor & Pump P - 1508 Reactor Pump	31.0	24.3	24.3	24.3	
Motor & Pump P - 1511 Stabilizer Reflux	30.7	24.0	24.0	24.0	
Motor & Pump P - 1512 Stabilizer Reflux	31.4	24.7	24.7	24.7	
Motor & Pump P - 1513 Caustic Circulatin	30.9	24.2	24.2	24.2	
Motor & Pump P - 1514 Caustic Circulatin	32.0	25.3	25.3	25.3	
Motor & Pump P 120/121	34.7	28.1	28.1	28.1	
Motor & Pump P 1505 FRESH FEED PUMPS	31.5	24.9	24.9	24.9	
Motor & Pump P 1506 FRESH FEED PUMPS	30.6	24.0	24.0	24.0	
Motor & Pump P 1509 Chloride Injection P	32.6	25.9	25.9	25.9	
Motor & Pump P 1510 Chloride Injection P	31.5	24.8	24.8	24.8	
Motor & Pump P 1601 A	31.6	25.0	25.0	25.0	
Motor & Pump P 1601 B	32.1	25.4	25.4	25.4	
Motor & Pump P 1602 A	32.8	26.2	26.2	26.2	
Motor & Pump P 1602 B	36.1	29.4	29.4	29.4	
Motor & Pump P 211/212	26.4	19.8	19.8	19.8	
Motor & Pump P 215/214	26.6	20.0	20.0	20.0	
Motor & Pump P 216	29.1	22.4	22.4	22.4	
Motor & Pump P 217/218	27.5	20.8	20.8	20.8	
Motor & Pump P 300	41.7	35.0	35.0	35.0	
Motor & Pump P 301	46.7	40.0	40.0	40.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 302	41.9	35.2	35.2	35.2	
Motor & Pump P 303	42.1	35.4	35.4	35.4	
Motor & Pump P 305	39.0	32.3	32.3	32.3	
Motor & Pump P 306	49.3	42.6	42.6	42.6	
Motor & Pump P 307	51.8	45.1	45.1	45.1	
Motor & Pump P 309	37.7	31.0	31.0	31.0	
Motor & Pump P 312	35.1	28.4	28.4	28.4	
Motor & Pump P 313	35.4	28.7	28.7	28.7	
Motor & Pump P 315	38.4	31.7	31.7	31.7	
Motor & Pump P 316	40.2	33.5	33.5	33.5	
Motor & Pump P 317	40.4	33.7	33.7	33.7	
Motor & Pump P 318	36.0	29.3	29.3	29.3	
Motor & Pump P 319	36.1	29.5	29.5	29.5	
Motor & Pump P 327	52.2	45.5	45.5	45.5	
Motor & Pump P 328	52.1	45.5	45.5	45.5	
Motor & Pump P 329	51.6	44.9	44.9	44.9	
Motor & Pump P 451	27.0	20.3	20.3	20.3	
Motor & Pump P 453	24.8	18.1	18.1	18.1	
Motor & Pump P 454	26.2	19.5	19.5	19.5	
Motor & Pump P 457	24.7	18.0	18.0	18.0	
Motor & Pump P 458	27.0	20.3	20.3	20.3	
Motor & Pump P 459	25.7	19.0	19.0	19.0	
Motor & Pump P 56A/B	27.7	21.1	21.1	21.1	
Nitrogen Skid w Compressor 18-PK 1806	42.6	35.9	35.9	35.9	
P-060 A/B	26.5	19.8	19.8	19.8	
P-1101 A	24.5	17.8	17.8	17.8	
P-1103	24.3	17.6	17.6	17.6	
P-1105 A/B/C	24.8	18.2	18.2	18.2	
P-1800	26.7	20.1	20.1	20.1	
P-1801	24.0	17.3	17.3	17.3	
P-1802	22.5	15.9	15.9	15.9	
P-1803	27.3	20.7	20.7	20.7	
P-1804	25.2	18.5	18.5	18.5	
P-1805	25.1	18.4	18.4	18.4	
P-1806	28.5	21.9	21.9	21.9	
P-1809 A	26.3	19.7	19.7	19.7	
P-1810 A/B/C	23.3	16.6	16.6	16.6	
P-1811 A/B	28.7	22.1	22.1	22.1	
P-1811 A/B	22.9	16.2	16.2	16.2	
P-1847 A/B	28.0	21.3	21.3	21.3	
P-1849 A/B	27.9	21.2	21.2	21.2	
P-1853	42.6	35.9	35.9	35.9	
P-2 A/B	23.8	17.1	17.1	17.1	
P-251 A/B	42.9	36.3	36.3	36.3	
P-252 A/B	43.0	36.3	36.3	36.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-253	43.9	37.3	37.3	37.3	
P-254 A/B	43.5	36.8	36.8	36.8	
P-255 A/B	42.8	36.2	36.2	36.2	
P-255 A/B	42.8	36.1	36.1	36.1	
P-256 A/B	43.0	36.3	36.3	36.3	
P-259 A/B	42.8	36.1	36.1	36.1	
P-260	43.8	37.2	37.2	37.2	
P-261 A/B	26.0	19.3	19.3	19.3	
P-262 A/B	34.6	28.0	28.0	28.0	
P-263 A/B	41.0	34.3	34.3	34.3	
P-270 A/B	25.7	19.0	19.0	19.0	
P-271 A/B	26.9	20.3	20.3	20.3	
P-272 A/B	43.4	36.7	36.7	36.7	
P-273 A/B	25.0	18.3	18.3	18.3	
P-275 A/B/C	26.2	19.5	19.5	19.5	
P-305	23.7	17.0	17.0	17.0	
P-306	25.9	19.2	19.2	19.2	
P-309	23.4	16.7	16.7	16.7	
P-328	27.1	20.4	20.4	20.4	
P-329	25.9	19.2	19.2	19.2	
P-353	23.0	16.3	16.3	16.3	
P-358 A/B	28.3	21.6	21.6	21.6	
P-359 A/B	24.8	18.2	18.2	18.2	
P-360 A/B	24.3	17.6	17.6	17.6	
P-361A	27.0	20.3	20.3	20.3	
P-371 A/B	33.4	26.7	26.7	26.7	
P-373 A/B	30.5	23.8	23.8	23.8	
P-374 A/B	30.0	23.4	23.4	23.4	
P-375 A/B	30.7	24.1	24.1	24.1	
P-376	30.0	23.4	23.4	23.4	
P-376 A/B	31.3	24.7	24.7	24.7	
P-377	30.1	23.5	23.5	23.5	
P-50 A/B	21.4	14.7	14.7	14.7	
P-51 A/B	21.4	14.8	14.8	14.8	
P-63	26.9	20.2	20.2	20.2	
P-70 A/B	21.5	14.8	14.8	14.8	
P-73 A/B	21.8	15.2	15.2	15.2	
Piping Furnace Tanks	32.3	25.6	25.6	25.6	
Piping Hydrogen Tanks Compressor	45.1	38.4	38.4	38.4	
Piping Hydrogen Tanks Compressor w NC	54.8	48.1	48.1	48.1	
Piping Hydrogen Tanks Compressorw NC	51.5	44.9	44.9	44.9	
Pre-Treat Train-Pre-Treat Outside Area E	35.8	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area N	53.3	46.7	46.7	46.7	
Pre-Treat Train-Pre-Treat Outside Area N2	43.4	36.7	36.7	36.7	
Pre-Treat Train-Pre-Treat Outside Area S	34.7	28.1	28.1	28.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Pre-Treat Outside Area S2	27.8	21.2	21.2	21.2	
Pre-Treat Train-Pre-Treat Outside Area W1	45.7	39.0	39.0	39.0	
Pre-Treat Train-Pre-Treat Outside Area W2	42.0	35.3	35.3	35.3	
Pre-Treat Train-Pre-Treat Outside Area W3	34.7	28.0	28.0	28.0	
Pre-Treat Train-Roof 01	52.8	46.2	46.2	46.2	
PSA Pipe 3" Lagging	20.2	13.6	13.6	13.6	
PSA Skid Additional Piping w NC	55.5	48.8	48.8	48.8	
Reformer-Burner Reformer East	47.9	41.3	41.3	41.3	
Reformer-Burner Reformer North	49.4	42.8	42.8	42.8	
Reformer-Burner Reformer South	30.4	23.7	23.7	23.7	
Reformer-Burner Reformer West	33.6	26.9	26.9	26.9	
xxxx xxxx xxxx xxxx	20.3	14.0		14.0	
xxxx xxxx xxxx xxxx	23.8	17.6		17.6	
RFG A from battery to process	46.4	39.7	39.7	39.7	
RFG A from battery to process w NC	50.8	44.1	44.1	44.1	
xxxx xxxx xxxx xxxx	27.4	25.9	24.2	18.2	
xxxx xxxx xxxx xxxx	27.6	26.1	24.4	18.5	
Stack Noise	50.5	43.8	43.8	43.8	
Steam Turbine-Facade 01	27.8	21.1	21.1	21.1	
Steam Turbine-Facade 02	28.9	22.2	22.2	22.2	
Steam Turbine-Facade 03	28.2	21.6	21.6	21.6	
Steam Turbine-Facade 04	24.3	17.7	17.7	17.7	
Steam Turbine-Roof 01	30.6	23.9	23.9	23.9	
Tank Farm Pump 1	27.3	20.6	20.6	20.6	
Tank Farm Pump 2	34.2	27.6	27.6	27.6	
Tank Farm Pump 3	34.8	28.1	28.1	28.1	
UP Train Locomotive Delivery and Pickup 2022 2x	30.8	33.8			
XF-1502 Splitter Area 1	36.4	29.8	29.8	29.8	
XF-1502 Splitter Area 2	35.5	28.8	28.8	28.8	
XF-1504 Splitter Area 1	35.9	29.2	29.2	29.2	
XF-1504 Splitter Area 2	35.7	29.0	29.0	29.0	
XF - 1601	35.2	28.5	28.5	28.5	
XF - 1602	38.6	31.9	31.9	31.9	
XF 251, 250, 271, 270	41.3	34.6	34.6	34.6	
XF 260, 261A, 261 B	42.2	35.5	35.5	35.5	
XF 304, XF 321	55.0	48.3	48.3	48.3	
XF 313, XF 314	55.1	48.4	48.4	48.4	
XF 335-1, XF 335-2	56.9	50.2	50.2	50.2	
XF 353A/B	28.4	21.7	21.7	21.7	
XF 353A/B	28.7	22.1	22.1	22.1	
XF 354A/B	27.7	21.0	21.0	21.0	
XF 503	44.6	38.0	38.0	38.0	
XF Module 1510	41.6	35.0	35.0	35.0	
XF Module 1519	42.4	35.8	35.8	35.8	
Receiver MH-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.5 dB(A) Ld 7-19 dB(A) Leq,N 59.4 dB(A) Le 19-					

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan Motor	38.2	31.5	31.5	31.5	
18-1855 A/B	26.6	19.9	19.9	19.9	
18-1856 A/B	26.5	19.9	19.9	19.9	
18-1857 A/B	26.7	20.0	20.0	20.0	
18-1858 A/B	26.6	19.9	19.9	19.9	
18-PK 1802 Air Compressor Package	34.1	27.4	27.4	27.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	35.2	36.6	34.2		
Air Compressor C 1	45.1	38.4	38.4	38.4	
Air Compressor Pump	27.5	20.8	20.8	20.8	
Blower F 401	44.8	38.1	38.1	38.1	
Boiler Crude Unit-Heater Opening	24.7	18.1	18.1	18.1	
Boiler Feed Water Pump A	26.4	19.7	19.7	19.7	
Boiler Feed Water Pump B	26.3	19.6	19.6	19.6	
C-270 A	35.1	28.4	28.4	28.4	
C-270 B	35.4	28.8	28.8	28.8	
C-270 C	36.0	29.3	29.3	29.3	
C-301 Compressor	37.1	30.5	30.5	30.5	
C-301 Motor	34.5	27.9	27.9	27.9	
C-351 Compressor	34.4	27.7	27.7	27.7	
C-351 Motor	32.9	26.3	26.3	26.3	
C370 A Motor	48.9	42.3	42.3	42.3	
C370 B Motor	55.0	48.3	48.3	48.3	
C370A	47.6	41.0	41.0	41.0	
C370B	49.0	42.3	42.3	42.3	
Cars Pumping 6 times in during delivery	31.2	34.2			
Compressor House C301, C302, C 124-Comp House East 1	39.3	32.6	32.6	32.6	
Compressor House C301, C302, C 124-Comp House East 2	38.5	31.8	31.8	31.8	
Compressor House C301, C302, C 124-Comp House North	46.7	40.0	40.0	40.0	
Compressor House C301, C302, C 124-Comp House South 1	32.5	25.9	25.9	25.9	
Compressor House C301, C302, C 124-Comp House South 2	25.8	19.1	19.1	19.1	
Compressor House C301, C302, C 124-Comp House West	21.7	15.1	15.1	15.1	
xxxx xxxx xxxx xxxx	47.0	40.4	40.4	40.4	
Cooling Tower CT 510-CT 510 East Side	41.4	34.8	34.8	34.8	
Cooling Tower CT 510-CT 510 West Side	21.9	15.3	15.3	15.3	
Cooling Tower CT 511-CT 511 East Side	42.4	35.8	35.8	35.8	
Cooling Tower CT 511-CT 511 West Side	28.1	21.5	21.5	21.5	
Cooling Tower M 512	25.8	19.1	19.1	19.1	
Cooling Tower M 513	25.9	19.2	19.2	19.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	25.5	18.8	18.8	18.8	
xxxx xxxx xxxx xxxx	43.0	36.7		36.7	
xxxx xxxx xxxx xxxx	37.4	35.9	34.2	28.3	
xxxx xxxx xxxx xxxx	37.4	35.9	34.2	28.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	28.7	22.1	22.1	22.1	
FD Fan Assembly-FD Fan - East	35.6	28.9	28.9	28.9	
FD Fan Assembly-FD Fan - North	34.1	27.4	27.4	27.4	
FD Fan Assembly-FD Fan - Roof	36.1	29.5	29.5	29.5	
FD Fan Assembly-FD Fan - South	33.3	26.7	26.7	26.7	
FD Fan Assembly-FD Fan - West	37.7	31.1	31.1	31.1	
FD Motor	40.1	33.4	33.4	33.4	
Feed Compressor-A Compressor	49.1	42.4	42.4	42.4	
Feed Compressor-A Motor	47.7	41.1	41.1	41.1	
Feed Compressor-B Compressor	42.4	35.8	35.8	35.8	
Feed Compressor -B Motor	40.6	33.9	33.9	33.9	
H2S Compressor 18-C-271	37.7	31.0	31.0	31.0	
Heater # 5-Heater	19.2	12.6	12.6	12.6	
Heater # 5-Heater	17.9	11.2	11.2	11.2	
Heater # 5-Heater	19.9	13.2	13.2	13.2	
Hydro Heater H-402	36.6	29.9	29.9	29.9	
ID Fan-ID Fan - East (128302)	27.0	20.3	20.3	20.3	
ID Fan-ID Fan - East 1 (128306)	27.1	20.4	20.4	20.4	
ID Fan-ID Fan - North	35.0	28.3	28.3	28.3	
ID Fan-ID Fan - North 2	33.0	26.4	26.4	26.4	
ID Fan-ID Fan - South	31.6	25.0	25.0	25.0	
ID Fan-ID Fan - South 2	31.1	24.4	24.4	24.4	
ID Fan-ID Fan Roof 01 (128293)	36.6	29.9	29.9	29.9	
xxxx xxxx xxxx xxxx	35.1	33.6	31.9	26.0	
xxxx xxxx xxxx xxxx	35.1	33.5	31.8	25.9	
Motor & Pump P - 1502 Splitter Reflux Pu	31.1	24.4	24.4	24.4	
Motor & Pump P - 1503 Splitter Bottoms P	34.0	27.4	27.4	27.4	
Motor & Pump P - 1504 Splitter Bottoms P	33.2	26.5	26.5	26.5	
Motor & Pump P - 1507 Reactor Pump	32.0	25.4	25.4	25.4	
Motor & Pump P - 1508 Reactor Pump	31.8	25.1	25.1	25.1	
Motor & Pump P - 1511 Stabilizer Reflux	30.7	24.1	24.1	24.1	
Motor & Pump P - 1512 Stabilizer Reflux	32.5	25.8	25.8	25.8	
Motor & Pump P - 1513 Caustic Circulatin	31.8	25.1	25.1	25.1	
Motor & Pump P - 1514 Caustic Circulatin	32.9	26.2	26.2	26.2	
Motor & Pump P 120/121	30.7	24.1	24.1	24.1	
Motor & Pump P 1505 FRESH FEED PUMPS	31.7	25.0	25.0	25.0	
Motor & Pump P 1506 FRESH FEED PUMPS	31.6	24.9	24.9	24.9	
Motor & Pump P 1509 Chloride Injection P	28.8	22.1	22.1	22.1	
Motor & Pump P 1510 Chloride Injection P	30.1	23.4	23.4	23.4	
Motor & Pump P 1601 A	34.6	27.9	27.9	27.9	
Motor & Pump P 1601 B	34.6	27.9	27.9	27.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1602 A	34.9	28.3	28.3	28.3	
Motor & Pump P 1602 B	35.6	28.9	28.9	28.9	
Motor & Pump P 211/212	25.7	19.1	19.1	19.1	
Motor & Pump P 215/214	26.9	20.2	20.2	20.2	
Motor & Pump P 216	29.5	22.8	22.8	22.8	
Motor & Pump P 217/218	25.3	18.6	18.6	18.6	
Motor & Pump P 300	32.4	25.7	25.7	25.7	
Motor & Pump P 301	39.3	32.6	32.6	32.6	
Motor & Pump P 302	32.8	26.2	26.2	26.2	
Motor & Pump P 303	33.8	27.1	27.1	27.1	
Motor & Pump P 305	31.4	24.8	24.8	24.8	
Motor & Pump P 306	48.9	42.2	42.2	42.2	
Motor & Pump P 307	38.5	31.9	31.9	31.9	
Motor & Pump P 309	30.5	23.8	23.8	23.8	
Motor & Pump P 312	39.5	32.9	32.9	32.9	
Motor & Pump P 313	39.5	32.9	32.9	32.9	
Motor & Pump P 315	34.6	28.0	28.0	28.0	
Motor & Pump P 316	34.5	27.9	27.9	27.9	
Motor & Pump P 317	36.4	29.8	29.8	29.8	
Motor & Pump P 318	32.4	25.7	25.7	25.7	
Motor & Pump P 319	33.4	26.7	26.7	26.7	
Motor & Pump P 327	50.6	43.9	43.9	43.9	
Motor & Pump P 328	42.6	36.0	36.0	36.0	
Motor & Pump P 329	45.4	38.7	38.7	38.7	
Motor & Pump P 451	29.8	23.1	23.1	23.1	
Motor & Pump P 453	23.8	17.1	17.1	17.1	
Motor & Pump P 454	29.2	22.5	22.5	22.5	
Motor & Pump P 457	24.2	17.6	17.6	17.6	
Motor & Pump P 458	31.6	24.9	24.9	24.9	
Motor & Pump P 459	29.2	22.5	22.5	22.5	
Motor & Pump P 56A/B	26.3	19.6	19.6	19.6	
Nitrogen Skid w Compressor 18-PK 1806	39.4	32.7	32.7	32.7	
P-060 A/B	26.9	20.3	20.3	20.3	
P-1101 A	27.8	21.2	21.2	21.2	
P-1103	28.0	21.3	21.3	21.3	
P-1105 A/B/C	27.9	21.2	21.2	21.2	
P-1800	26.7	20.1	20.1	20.1	
P-1801	24.6	17.9	17.9	17.9	
P-1802	22.1	15.4	15.4	15.4	
P-1803	27.8	21.1	21.1	21.1	
P-1804	24.6	18.0	18.0	18.0	
P-1805	24.3	17.6	17.6	17.6	
P-1806	29.6	22.9	22.9	22.9	
P-1809 A	22.4	15.8	15.8	15.8	
P-1810 A/B/C	22.9	16.3	16.3	16.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1811 A/B	28.1	21.4	21.4	21.4	
P-1811 A/B	23.3	16.6	16.6	16.6	
P-1847 A/B	30.7	24.0	24.0	24.0	
P-1849 A/B	35.2	28.5	28.5	28.5	
P-1853	24.5	17.8	17.8	17.8	
P-2 A/B	24.8	18.1	18.1	18.1	
P-251 A/B	24.9	18.3	18.3	18.3	
P-252 A/B	25.3	18.7	18.7	18.7	
P-253	25.3	18.6	18.6	18.6	
P-254 A/B	24.8	18.1	18.1	18.1	
P-255 A/B	24.8	18.2	18.2	18.2	
P-255 A/B	27.7	21.0	21.0	21.0	
P-256 A/B	24.9	18.2	18.2	18.2	
P-259 A/B	25.0	18.3	18.3	18.3	
P-260	29.3	22.6	22.6	22.6	
P-261 A/B	36.9	30.2	30.2	30.2	
P-262 A/B	29.7	23.1	23.1	23.1	
P-263 A/B	29.8	23.1	23.1	23.1	
P-270 A/B	26.0	19.3	19.3	19.3	
P-271 A/B	24.7	18.0	18.0	18.0	
P-272 A/B	24.7	18.1	18.1	18.1	
P-273 A/B	26.3	19.6	19.6	19.6	
P-275 A/B/C	25.1	18.4	18.4	18.4	
P-305	24.2	17.5	17.5	17.5	
P-306	26.4	19.7	19.7	19.7	
P-309	24.0	17.4	17.4	17.4	
P-328	26.3	19.6	19.6	19.6	
P-329	25.4	18.7	18.7	18.7	
P-353	24.3	17.7	17.7	17.7	
P-358 A/B	27.3	20.7	20.7	20.7	
P-359 A/B	27.1	20.5	20.5	20.5	
P-360 A/B	25.1	18.4	18.4	18.4	
P-361A	26.8	20.1	20.1	20.1	
P-371 A/B	30.4	23.8	23.8	23.8	
P-373 A/B	33.4	26.7	26.7	26.7	
P-374 A/B	34.0	27.3	27.3	27.3	
P-375 A/B	34.1	27.4	27.4	27.4	
P-376	33.7	27.0	27.0	27.0	
P-376 A/B	38.5	31.8	31.8	31.8	
P-377	35.4	28.7	28.7	28.7	
P-50 A/B	22.6	15.9	15.9	15.9	
P-51 A/B	21.9	15.3	15.3	15.3	
P-63	24.3	17.6	17.6	17.6	
P-70 A/B	26.4	19.8	19.8	19.8	
P-73 A/B	22.2	15.5	15.5	15.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Piping Furnace Tanks	29.5	22.8	22.8	22.8	
Piping Hydrogen Tanks Compressor	44.9	38.2	38.2	38.2	
Piping Hydrogen Tanks Compressor w NC	55.4	48.7	48.7	48.7	
Piping Hydrogen Tanks Compressorw NC	52.6	45.9	45.9	45.9	
Pre-Treat Train-Pre-Treat Outside Area E	35.8	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area N	51.3	44.6	44.6	44.6	
Pre-Treat Train-Pre-Treat Outside Area N2	46.1	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area S	38.0	31.3	31.3	31.3	
Pre-Treat Train-Pre-Treat Outside Area S2	35.0	28.3	28.3	28.3	
Pre-Treat Train-Pre-Treat Outside Area W1	46.7	40.1	40.1	40.1	
Pre-Treat Train-Pre-Treat Outside Area W2	50.3	43.6	43.6	43.6	
Pre-Treat Train-Pre-Treat Outside Area W3	40.5	33.8	33.8	33.8	
Pre-Treat Train-Roof 01	54.2	47.5	47.5	47.5	
PSA Pipe 3" Lagging	19.7	13.0	13.0	13.0	
PSA Skid Additional Piping w NC	57.0	50.3	50.3	50.3	
Reformer-Burner Reformer East	38.5	31.8	31.8	31.8	
Reformer-Burner Reformer North	36.2	29.5	29.5	29.5	
Reformer-Burner Reformer South	29.8	23.1	23.1	23.1	
Reformer-Burner Reformer West	31.1	24.4	24.4	24.4	
xxxx xxxx xxxx xxxx	22.8	16.5		16.5	
xxxx xxxx xxxx xxxx	20.1	13.8		13.8	
RFG A from battery to process	45.8	39.2	39.2	39.2	
RFG A from battery to process w NC	51.8	45.1	45.1	45.1	
xxxx xxxx xxxx xxxx	24.2	22.7	21.0	15.1	
xxxx xxxx xxxx xxxx	24.5	23.0	21.3	15.4	
Stack Noise	51.1	44.4	44.4	44.4	
Steam Turbine-Facade 01	28.6	22.0	22.0	22.0	
Steam Turbine-Facade 02	29.0	22.4	22.4	22.4	
Steam Turbine-Facade 03	29.5	22.9	22.9	22.9	
Steam Turbine-Facade 04	24.3	17.6	17.6	17.6	
Steam Turbine-Roof 01	33.7	27.0	27.0	27.0	
Tank Farm Pump 1	33.0	26.3	26.3	26.3	
Tank Farm Pump 2	34.9	28.2	28.2	28.2	
Tank Farm Pump 3	36.2	29.5	29.5	29.5	
UP Train Locomotive Delivery and Pickup 2022 2x	30.2	33.2			
XF-1502 Splitter Area 1	38.9	32.2	32.2	32.2	
XF-1502 Splitter Area 2	39.8	33.1	33.1	33.1	
XF-1504 Splitter Area 1	35.6	28.9	28.9	28.9	
XF-1504 Splitter Area 2	35.6	29.0	29.0	29.0	
XF - 1601	39.5	32.8	32.8	32.8	
XF - 1602	38.1	31.4	31.4	31.4	
XF 251, 250, 271, 270	31.5	24.8	24.8	24.8	
XF 260, 261A, 261 B	41.6	35.0	35.0	35.0	
XF 304, XF 321	44.1	37.4	37.4	37.4	
XF 313, XF 314	54.2	47.5	47.5	47.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	52.2	45.5	45.5	45.5	
XF 353A/B	26.8	20.1	20.1	20.1	
XF 353A/B	27.2	20.5	20.5	20.5	
XF 354A/B	25.1	18.4	18.4	18.4	
XF 503	43.5	36.8	36.8	36.8	
XF Module 1510	42.0	35.3	35.3	35.3	
XF Module 1519	41.7	35.0	35.0	35.0	
Receiver MH-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 57.2 dB(A) Ld 7-19 dB(A) Leq,N 57.1 dB(A) Le 19-					
ID Fan Motor	38.3	31.6	31.6	31.6	
18-1855 A/B	27.1	20.4	20.4	20.4	
18-1856 A/B	27.2	20.5	20.5	20.5	
18-1857 A/B	26.8	20.1	20.1	20.1	
18-1858 A/B	26.6	20.0	20.0	20.0	
18-PK 1802 Air Compressor Package	34.0	27.4	27.4	27.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	32.5	33.9	31.4		
Air Compressor C 1	44.5	37.8	37.8	37.8	
Air Compressor Pump	27.4	20.7	20.7	20.7	
Blower F 401	47.7	41.0	41.0	41.0	
Boiler Crude Unit-Heater Opening	26.5	19.9	19.9	19.9	
Boiler Feed Water Pump A	27.0	20.3	20.3	20.3	
Boiler Feed Water Pump B	26.3	19.6	19.6	19.6	
C-270 A	37.2	30.6	30.6	30.6	
C-270 B	37.0	30.3	30.3	30.3	
C-270 C	36.9	30.3	30.3	30.3	
C-301 Compressor	46.0	39.3	39.3	39.3	
C-301 Motor	43.4	36.8	36.8	36.8	
C-351 Compressor	34.6	28.0	28.0	28.0	
C-351 Motor	32.1	25.4	25.4	25.4	
C370 A Motor	32.9	26.3	26.3	26.3	
C370 B Motor	43.1	36.5	36.5	36.5	
C370A	33.4	26.7	26.7	26.7	
C370B	38.6	31.9	31.9	31.9	
Cars Pumping 6 times in during delivery	28.4	31.4			
Compressor House C301, C302, C 124-Comp House East 1	38.8	32.1	32.1	32.1	
Compressor House C301, C302, C 124-Comp House East 2	34.2	27.5	27.5	27.5	
Compressor House C301, C302, C 124-Comp House North	43.8	37.1	37.1	37.1	
Compressor House C301, C302, C 124-Comp House South 1	32.0	25.3	25.3	25.3	
Compressor House C301, C302, C 124-Comp House South 2	25.8	19.1	19.1	19.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House West	22.2	15.5	15.5	15.5	
xxxx xxxx xxxx xxxx	47.9	41.2	41.2	41.2	
Cooling Tower CT 510-CT 510 East Side	37.7	31.0	31.0	31.0	
Cooling Tower CT 510-CT 510 West Side	22.2	15.5	15.5	15.5	
Cooling Tower CT 511-CT 511 East Side	46.0	39.3	39.3	39.3	
Cooling Tower CT 511-CT 511 West Side	27.7	21.0	21.0	21.0	
Cooling Tower M 512	25.7	19.0	19.0	19.0	
Cooling Tower M 513	25.4	18.7	18.7	18.7	
Cooling Tower M 514	25.7	19.1	19.1	19.1	
xxxx xxxx xxxx xxxx	41.1	34.8		34.8	
xxxx xxxx xxxx xxxx	36.8	35.3	33.6	27.7	
xxxx xxxx xxxx xxxx	36.9	35.4	33.7	27.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	28.9	22.3	22.3	22.3	
FD Fan Assembly-FD Fan - East	36.4	29.8	29.8	29.8	
FD Fan Assembly-FD Fan - North	34.8	28.2	28.2	28.2	
FD Fan Assembly-FD Fan - Roof	37.0	30.3	30.3	30.3	
FD Fan Assembly-FD Fan - South	34.1	27.5	27.5	27.5	
FD Fan Assembly-FD Fan - West	38.5	31.9	31.9	31.9	
FD Motor	37.1	30.4	30.4	30.4	
Feed Compressor-A Compressor	36.6	30.0	30.0	30.0	
Feed Compressor-A Motor	33.8	27.1	27.1	27.1	
Feed Compressor-B Compressor	34.6	27.9	27.9	27.9	
Feed Compressor -B Motor	33.4	26.8	26.8	26.8	
H2S Compressor 18-C-271	38.7	32.0	32.0	32.0	
Heater # 5-Heater	20.4	13.8	13.8	13.8	
Heater # 5-Heater	18.8	12.1	12.1	12.1	
Heater # 5-Heater	20.9	14.2	14.2	14.2	
Hydro Heater H-402	36.2	29.6	29.6	29.6	
ID Fan-ID Fan - East (128302)	27.6	20.9	20.9	20.9	
ID Fan-ID Fan - East 1 (128306)	28.7	22.0	22.0	22.0	
ID Fan-ID Fan - North	36.3	29.7	29.7	29.7	
ID Fan-ID Fan - North 2	35.1	28.4	28.4	28.4	
ID Fan-ID Fan - South	32.3	25.6	25.6	25.6	
ID Fan-ID Fan - South 2	31.7	25.1	25.1	25.1	
ID Fan-ID Fan Roof 01 (128293)	39.7	33.1	33.1	33.1	
xxxx xxxx xxxx xxxx	34.7	33.2	31.5	25.6	
xxxx xxxx xxxx xxxx	34.5	32.9	31.2	25.3	
Motor & Pump P - 1502 Splitter Reflux Pu	28.3	21.6	21.6	21.6	
Motor & Pump P - 1503 Splitter Bottoms P	30.7	24.1	24.1	24.1	
Motor & Pump P - 1504 Splitter Bottoms P	31.0	24.3	24.3	24.3	
Motor & Pump P - 1507 Reactor Pump	30.0	23.4	23.4	23.4	
Motor & Pump P - 1508 Reactor Pump	27.8	21.1	21.1	21.1	
Motor & Pump P - 1511 Stabilizer Reflux	29.9	23.2	23.2	23.2	
Motor & Pump P - 1512 Stabilizer Reflux	29.9	23.2	23.2	23.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	29.6	22.9	22.9	22.9	
Motor & Pump P - 1514 Caustic Circulatin	29.8	23.1	23.1	23.1	
Motor & Pump P 120/121	29.7	23.1	23.1	23.1	
Motor & Pump P 1505 FRESH FEED PUMPS	30.8	24.1	24.1	24.1	
Motor & Pump P 1506 FRESH FEED PUMPS	30.9	24.3	24.3	24.3	
Motor & Pump P 1509 Chloride Injection P	27.5	20.9	20.9	20.9	
Motor & Pump P 1510 Chloride Injection P	26.0	19.4	19.4	19.4	
Motor & Pump P 1601 A	30.3	23.7	23.7	23.7	
Motor & Pump P 1601 B	35.8	29.1	29.1	29.1	
Motor & Pump P 1602 A	31.3	24.7	24.7	24.7	
Motor & Pump P 1602 B	31.7	25.1	25.1	25.1	
Motor & Pump P 211/212	23.9	17.2	17.2	17.2	
Motor & Pump P 215/214	24.6	17.9	17.9	17.9	
Motor & Pump P 216	28.3	21.6	21.6	21.6	
Motor & Pump P 217/218	23.5	16.8	16.8	16.8	
Motor & Pump P 300	32.2	25.5	25.5	25.5	
Motor & Pump P 301	36.2	29.5	29.5	29.5	
Motor & Pump P 302	32.5	25.8	25.8	25.8	
Motor & Pump P 303	32.1	25.5	25.5	25.5	
Motor & Pump P 305	30.2	23.6	23.6	23.6	
Motor & Pump P 306	43.4	36.7	36.7	36.7	
Motor & Pump P 307	36.7	30.0	30.0	30.0	
Motor & Pump P 309	28.3	21.7	21.7	21.7	
Motor & Pump P 312	34.2	27.5	27.5	27.5	
Motor & Pump P 313	35.5	28.8	28.8	28.8	
Motor & Pump P 315	35.7	29.0	29.0	29.0	
Motor & Pump P 316	35.5	28.8	28.8	28.8	
Motor & Pump P 317	35.2	28.5	28.5	28.5	
Motor & Pump P 318	34.2	27.5	27.5	27.5	
Motor & Pump P 319	34.1	27.4	27.4	27.4	
Motor & Pump P 327	42.7	36.0	36.0	36.0	
Motor & Pump P 328	40.5	33.9	33.9	33.9	
Motor & Pump P 329	40.4	33.7	33.7	33.7	
Motor & Pump P 451	25.5	18.8	18.8	18.8	
Motor & Pump P 453	24.0	17.3	17.3	17.3	
Motor & Pump P 454	27.1	20.4	20.4	20.4	
Motor & Pump P 457	24.0	17.3	17.3	17.3	
Motor & Pump P 458	25.5	18.9	18.9	18.9	
Motor & Pump P 459	27.1	20.4	20.4	20.4	
Motor & Pump P 56A/B	24.1	17.4	17.4	17.4	
Nitrogen Skid w Compressor 18-PK 1806	37.4	30.7	30.7	30.7	
P-060 A/B	31.0	24.4	24.4	24.4	
P-1101 A	26.5	19.9	19.9	19.9	
P-1103	25.8	19.2	19.2	19.2	
P-1105 A/B/C	27.6	20.9	20.9	20.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1800	34.3	27.6	27.6	27.6	
P-1801	24.5	17.9	17.9	17.9	
P-1802	21.8	15.1	15.1	15.1	
P-1803	35.0	28.3	28.3	28.3	
P-1804	33.2	26.6	26.6	26.6	
P-1805	26.4	19.7	19.7	19.7	
P-1806	32.4	25.8	25.8	25.8	
P-1809 A	24.7	18.0	18.0	18.0	
P-1810 A/B/C	23.4	16.7	16.7	16.7	
P-1811 A/B	32.6	26.0	26.0	26.0	
P-1811 A/B	23.9	17.2	17.2	17.2	
P-1847 A/B	35.1	28.4	28.4	28.4	
P-1849 A/B	36.8	30.1	30.1	30.1	
P-1853	26.6	20.0	20.0	20.0	
P-2 A/B	27.1	20.5	20.5	20.5	
P-251 A/B	24.7	18.1	18.1	18.1	
P-252 A/B	25.2	18.6	18.6	18.6	
P-253	25.3	18.6	18.6	18.6	
P-254 A/B	24.7	18.1	18.1	18.1	
P-255 A/B	24.7	18.1	18.1	18.1	
P-255 A/B	24.8	18.1	18.1	18.1	
P-256 A/B	24.7	18.1	18.1	18.1	
P-259 A/B	24.8	18.1	18.1	18.1	
P-260	26.4	19.7	19.7	19.7	
P-261 A/B	26.2	19.5	19.5	19.5	
P-262 A/B	28.1	21.4	21.4	21.4	
P-263 A/B	26.7	20.0	20.0	20.0	
P-270 A/B	27.5	20.9	20.9	20.9	
P-271 A/B	25.7	19.0	19.0	19.0	
P-272 A/B	26.8	20.1	20.1	20.1	
P-273 A/B	27.6	20.9	20.9	20.9	
P-275 A/B/C	25.8	19.1	19.1	19.1	
P-305	25.2	18.5	18.5	18.5	
P-306	28.0	21.3	21.3	21.3	
P-309	25.0	18.3	18.3	18.3	
P-328	28.4	21.7	21.7	21.7	
P-329	28.0	21.3	21.3	21.3	
P-353	26.0	19.4	19.4	19.4	
P-358 A/B	29.4	22.7	22.7	22.7	
P-359 A/B	28.6	21.9	21.9	21.9	
P-360 A/B	27.9	21.2	21.2	21.2	
P-361A	32.3	25.6	25.6	25.6	
P-371 A/B	31.7	25.0	25.0	25.0	
P-373 A/B	34.9	28.2	28.2	28.2	
P-374 A/B	33.8	27.1	27.1	27.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-375 A/B	32.2	25.6	25.6	25.6	
P-376	33.7	27.0	27.0	27.0	
P-376 A/B	35.3	28.7	28.7	28.7	
P-377	35.5	28.8	28.8	28.8	
P-50 A/B	22.6	15.9	15.9	15.9	
P-51 A/B	23.1	16.4	16.4	16.4	
P-63	26.3	19.6	19.6	19.6	
P-70 A/B	31.2	24.5	24.5	24.5	
P-73 A/B	23.6	16.9	16.9	16.9	
Piping Furnace Tanks	14.7	8.0	8.0	8.0	
Piping Hydrogen Tanks Compressor	26.6	19.9	19.9	19.9	
Piping Hydrogen Tanks Compressor w NC	52.9	46.2	46.2	46.2	
Piping Hydrogen Tanks Compressorw NC	49.6	42.9	42.9	42.9	
Pre-Treat Train-Pre-Treat Outside Area E	35.3	28.6	28.6	28.6	
Pre-Treat Train-Pre-Treat Outside Area N	46.4	39.8	39.8	39.8	
Pre-Treat Train-Pre-Treat Outside Area N2	44.2	37.5	37.5	37.5	
Pre-Treat Train-Pre-Treat Outside Area S	37.5	30.8	30.8	30.8	
Pre-Treat Train-Pre-Treat Outside Area S2	35.8	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area W1	41.2	34.5	34.5	34.5	
Pre-Treat Train-Pre-Treat Outside Area W2	50.7	44.0	44.0	44.0	
Pre-Treat Train-Pre-Treat Outside Area W3	38.7	32.1	32.1	32.1	
Pre-Treat Train-Roof 01	50.1	43.4	43.4	43.4	
PSA Pipe 3" Lagging	13.0	6.3	6.3	6.3	
PSA Skid Additional Piping w NC	55.8	49.1	49.1	49.1	
Reformer-Burner Reformer East	37.8	31.1	31.1	31.1	
Reformer-Burner Reformer North	27.9	21.2	21.2	21.2	
Reformer-Burner Reformer South	30.5	23.8	23.8	23.8	
Reformer-Burner Reformer West	30.7	24.1	24.1	24.1	
xxxx xxxx xxxx xxxx	22.2	15.9		15.9	
xxxx xxxx xxxx xxxx	26.4	20.2		20.2	
RFG A from battery to process	27.0	20.4	20.4	20.4	
RFG A from battery to process w NC	48.5	41.8	41.8	41.8	
xxxx xxxx xxxx xxxx	24.7	23.2	21.4	15.5	
xxxx xxxx xxxx xxxx	25.0	23.5	21.8	15.8	
Stack Noise	53.1	46.4	46.4	46.4	
Steam Turbine-Facade 01	27.9	21.2	21.2	21.2	
Steam Turbine-Facade 02	25.7	19.0	19.0	19.0	
Steam Turbine-Facade 03	29.1	22.4	22.4	22.4	
Steam Turbine-Facade 04	23.7	17.0	17.0	17.0	
Steam Turbine-Roof 01	32.6	26.0	26.0	26.0	
Tank Farm Pump 1	33.8	27.1	27.1	27.1	
Tank Farm Pump 2	31.1	24.5	24.5	24.5	
Tank Farm Pump 3	31.2	24.6	24.6	24.6	
UP Train Locomotive Delivery and Pickup 2022 2x	29.5	32.6			
XF-1502 Splitter Area 1	41.3	34.7	34.7	34.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF-1502 Splitter Area 2	41.1	34.4	34.4	34.4	
XF-1504 Splitter Area 1	40.7	34.1	34.1	34.1	
XF-1504 Splitter Area 2	40.9	34.2	34.2	34.2	
XF - 1601	41.1	34.5	34.5	34.5	
XF - 1602	40.2	33.5	33.5	33.5	
XF 251, 250, 271, 270	33.4	26.8	26.8	26.8	
XF 260, 261A, 261 B	32.6	25.9	25.9	25.9	
XF 304, XF 321	43.4	36.7	36.7	36.7	
XF 313, XF 314	53.4	46.7	46.7	46.7	
XF 335-1, XF 335-2	45.7	39.1	39.1	39.1	
XF 353A/B	35.2	28.6	28.6	28.6	
XF 353A/B	35.4	28.7	28.7	28.7	
XF 354A/B	29.9	23.2	23.2	23.2	
XF 503	45.8	39.1	39.1	39.1	
XF Module 1510	44.4	37.7	37.7	37.7	
XF Module 1519	45.4	38.7	38.7	38.7	
Receiver MH-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 57.8 dB(A)	Ld 7-19 dB(A)	Leq,N 57.7 dB(A)	Le 19-
ID Fan Motor	47.3	40.6	40.6	40.6	
18-1855 A/B	28.4	21.7	21.7	21.7	
18-1856 A/B	32.6	26.0	26.0	26.0	
18-1857 A/B	27.7	21.0	21.0	21.0	
18-1858 A/B	29.8	23.1	23.1	23.1	
18-PK 1802 Air Compressor Package	50.6	44.0	44.0	44.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	29.9	31.3	28.8		
Air Compressor C 1	43.2	36.5	36.5	36.5	
Air Compressor Pump	26.5	19.8	19.8	19.8	
Blower F 401	48.3	41.6	41.6	41.6	
Boiler Crude Unit-Heater Opening	33.4	26.7	26.7	26.7	
Boiler Feed Water Pump A	45.1	38.4	38.4	38.4	
Boiler Feed Water Pump B	44.8	38.2	38.2	38.2	
C-270 A	49.5	42.8	42.8	42.8	
C-270 B	48.4	41.7	41.7	41.7	
C-270 C	46.4	39.7	39.7	39.7	
C-301 Compressor	51.1	44.4	44.4	44.4	
C-301 Motor	50.3	43.6	43.6	43.6	
C-351 Compressor	49.9	43.3	43.3	43.3	
C-351 Motor	49.1	42.4	42.4	42.4	
C370 A Motor	34.4	27.8	27.8	27.8	
C370 B Motor	40.3	33.6	33.6	33.6	
C370A	34.6	27.9	27.9	27.9	
C370B	35.5	28.8	28.8	28.8	
Cars Pumping 6 times in during delivery	26.8	29.8			
Compressor House C301, C302, C 124-Comp House East 1	37.4	30.7	30.7	30.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	34.0	27.3	27.3	27.3	
Compressor House C301, C302, C 124-Comp House North	45.3	38.6	38.6	38.6	
Compressor House C301, C302, C 124-Comp House South 1	31.7	25.0	25.0	25.0	
Compressor House C301, C302, C 124-Comp House South 2	25.6	19.0	19.0	19.0	
Compressor House C301, C302, C 124-Comp House West	21.1	14.4	14.4	14.4	
xxxx xxxx xxxx xxxx	48.5	41.8	41.8	41.8	
Cooling Tower CT 510-CT 510 East Side	39.2	32.5	32.5	32.5	
Cooling Tower CT 510-CT 510 West Side	23.1	16.4	16.4	16.4	
Cooling Tower CT 511-CT 511 East Side	50.6	43.9	43.9	43.9	
Cooling Tower CT 511-CT 511 West Side	26.2	19.5	19.5	19.5	
Cooling Tower M 512	24.1	17.4	17.4	17.4	
Cooling Tower M 513	24.0	17.3	17.3	17.3	
Cooling Tower M 514	24.2	17.5	17.5	17.5	
xxxx xxxx xxxx xxxx	41.5	35.2		35.2	
xxxx xxxx xxxx xxxx	35.0	33.5	31.8	25.9	
xxxx xxxx xxxx xxxx	35.1	33.6	31.9	26.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	40.6	33.9	33.9	33.9	
FD Fan Assembly-FD Fan - East	41.0	34.3	34.3	34.3	
FD Fan Assembly-FD Fan - North	36.8	30.1	30.1	30.1	
FD Fan Assembly-FD Fan - Roof	39.0	32.3	32.3	32.3	
FD Fan Assembly-FD Fan - South	36.5	29.8	29.8	29.8	
FD Fan Assembly-FD Fan - West	39.1	32.4	32.4	32.4	
FD Motor	37.8	31.1	31.1	31.1	
Feed Compressor-A Compressor	33.9	27.2	27.2	27.2	
Feed Compressor-A Motor	31.7	25.0	25.0	25.0	
Feed Compressor-B Compressor	35.7	29.0	29.0	29.0	
Feed Compressor -B Motor	33.5	26.8	26.8	26.8	
H2S Compressor 18-C-271	37.4	30.7	30.7	30.7	
Heater # 5-Heater	25.8	19.1	19.1	19.1	
Heater # 5-Heater	24.4	17.7	17.7	17.7	
Heater # 5-Heater	26.7	20.1	20.1	20.1	
Hydro Heater H-402	34.7	28.0	28.0	28.0	
ID Fan-ID Fan - East (128302)	34.5	27.8	27.8	27.8	
ID Fan-ID Fan - East 1 (128306)	35.4	28.7	28.7	28.7	
ID Fan-ID Fan - North	44.8	38.2	38.2	38.2	
ID Fan-ID Fan - North 2	44.1	37.4	37.4	37.4	
ID Fan-ID Fan - South	39.2	32.5	32.5	32.5	
ID Fan-ID Fan - South 2	38.4	31.7	31.7	31.7	
ID Fan-ID Fan Roof 01 (128293)	47.7	41.0	41.0	41.0	
xxxx xxxx xxxx xxxx	35.5	34.0	32.3	26.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	35.4	33.9	32.2	26.3	
Motor & Pump P - 1502 Splitter Reflux Pu	27.1	20.5	20.5	20.5	
Motor & Pump P - 1503 Splitter Bottoms P	28.4	21.8	21.8	21.8	
Motor & Pump P - 1504 Splitter Bottoms P	31.4	24.8	24.8	24.8	
Motor & Pump P - 1507 Reactor Pump	30.7	24.0	24.0	24.0	
Motor & Pump P - 1508 Reactor Pump	29.4	22.7	22.7	22.7	
Motor & Pump P - 1511 Stabilizer Reflux	29.9	23.2	23.2	23.2	
Motor & Pump P - 1512 Stabilizer Reflux	32.3	25.6	25.6	25.6	
Motor & Pump P - 1513 Caustic Circulatin	29.1	22.4	22.4	22.4	
Motor & Pump P - 1514 Caustic Circulatin	30.9	24.2	24.2	24.2	
Motor & Pump P 120/121	30.7	24.1	24.1	24.1	
Motor & Pump P 1505 FRESH FEED PUMPS	30.9	24.3	24.3	24.3	
Motor & Pump P 1506 FRESH FEED PUMPS	30.9	24.2	24.2	24.2	
Motor & Pump P 1509 Chloride Injection P	24.7	18.1	18.1	18.1	
Motor & Pump P 1510 Chloride Injection P	24.7	18.1	18.1	18.1	
Motor & Pump P 1601 A	42.2	35.5	35.5	35.5	
Motor & Pump P 1601 B	42.2	35.6	35.6	35.6	
Motor & Pump P 1602 A	41.9	35.2	35.2	35.2	
Motor & Pump P 1602 B	39.1	32.5	32.5	32.5	
Motor & Pump P 211/212	22.9	16.2	16.2	16.2	
Motor & Pump P 215/214	26.5	19.8	19.8	19.8	
Motor & Pump P 216	29.1	22.4	22.4	22.4	
Motor & Pump P 217/218	23.6	16.9	16.9	16.9	
Motor & Pump P 300	30.7	24.1	24.1	24.1	
Motor & Pump P 301	37.4	30.8	30.8	30.8	
Motor & Pump P 302	29.1	22.4	22.4	22.4	
Motor & Pump P 303	29.2	22.5	22.5	22.5	
Motor & Pump P 305	28.0	21.3	21.3	21.3	
Motor & Pump P 306	42.6	35.9	35.9	35.9	
Motor & Pump P 307	36.4	29.7	29.7	29.7	
Motor & Pump P 309	27.1	20.4	20.4	20.4	
Motor & Pump P 312	33.6	26.9	26.9	26.9	
Motor & Pump P 313	32.9	26.2	26.2	26.2	
Motor & Pump P 315	35.1	28.4	28.4	28.4	
Motor & Pump P 316	34.9	28.2	28.2	28.2	
Motor & Pump P 317	34.3	27.6	27.6	27.6	
Motor & Pump P 318	33.0	26.3	26.3	26.3	
Motor & Pump P 319	33.0	26.3	26.3	26.3	
Motor & Pump P 327	41.5	34.8	34.8	34.8	
Motor & Pump P 328	39.2	32.5	32.5	32.5	
Motor & Pump P 329	39.0	32.3	32.3	32.3	
Motor & Pump P 451	22.2	15.6	15.6	15.6	
Motor & Pump P 453	21.2	14.6	14.6	14.6	
Motor & Pump P 454	25.2	18.5	18.5	18.5	
Motor & Pump P 457	22.8	16.1	16.1	16.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 458	22.3	15.6	15.6	15.6	
Motor & Pump P 459	25.2	18.6	18.6	18.6	
Motor & Pump P 56A/B	24.1	17.4	17.4	17.4	
Nitrogen Skid w Compressor 18-PK 1806	43.8	37.1	37.1	37.1	
P-060 A/B	31.3	24.6	24.6	24.6	
P-1101 A	28.8	22.1	22.1	22.1	
P-1103	31.8	25.1	25.1	25.1	
P-1105 A/B/C	30.6	23.9	23.9	23.9	
P-1800	31.9	25.3	25.3	25.3	
P-1801	24.3	17.6	17.6	17.6	
P-1802	23.2	16.5	16.5	16.5	
P-1803	37.3	30.6	30.6	30.6	
P-1804	25.3	18.6	18.6	18.6	
P-1805	33.1	26.5	26.5	26.5	
P-1806	34.1	27.4	27.4	27.4	
P-1809 A	26.8	20.1	20.1	20.1	
P-1810 A/B/C	23.8	17.2	17.2	17.2	
P-1811 A/B	34.6	27.9	27.9	27.9	
P-1811 A/B	31.4	24.8	24.8	24.8	
P-1847 A/B	32.7	26.1	26.1	26.1	
P-1849 A/B	32.4	25.7	25.7	25.7	
P-1853	32.2	25.5	25.5	25.5	
P-2 A/B	31.8	25.2	25.2	25.2	
P-251 A/B	26.4	19.8	19.8	19.8	
P-252 A/B	28.4	21.7	21.7	21.7	
P-253	27.3	20.6	20.6	20.6	
P-254 A/B	26.8	20.1	20.1	20.1	
P-255 A/B	27.1	20.5	20.5	20.5	
P-255 A/B	27.6	20.9	20.9	20.9	
P-256 A/B	28.0	21.3	21.3	21.3	
P-259 A/B	26.5	19.8	19.8	19.8	
P-260	26.5	19.8	19.8	19.8	
P-261 A/B	25.2	18.5	18.5	18.5	
P-262 A/B	26.6	20.0	20.0	20.0	
P-263 A/B	26.7	20.1	20.1	20.1	
P-270 A/B	44.1	37.4	37.4	37.4	
P-271 A/B	37.7	31.1	31.1	31.1	
P-272 A/B	29.0	22.4	22.4	22.4	
P-273 A/B	26.7	20.0	20.0	20.0	
P-275 A/B/C	44.2	37.6	37.6	37.6	
P-305	39.6	33.0	33.0	33.0	
P-306	43.3	36.7	36.7	36.7	
P-309	41.9	35.2	35.2	35.2	
P-328	42.7	36.0	36.0	36.0	
P-329	42.7	36.0	36.0	36.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-353	41.5	34.9	34.9	34.9	
P-358 A/B	43.9	37.2	37.2	37.2	
P-359 A/B	43.8	37.2	37.2	37.2	
P-360 A/B	43.4	36.8	36.8	36.8	
P-361A	25.5	18.8	18.8	18.8	
P-371 A/B	28.0	21.3	21.3	21.3	
P-373 A/B	28.7	22.0	22.0	22.0	
P-374 A/B	38.6	31.9	31.9	31.9	
P-375 A/B	28.0	21.3	21.3	21.3	
P-376	37.9	31.2	31.2	31.2	
P-376 A/B	29.3	22.6	22.6	22.6	
P-377	37.4	30.7	30.7	30.7	
P-50 A/B	23.6	16.9	16.9	16.9	
P-51 A/B	29.7	23.0	23.0	23.0	
P-63	28.4	21.7	21.7	21.7	
P-70 A/B	30.0	23.3	23.3	23.3	
P-73 A/B	29.5	22.9	22.9	22.9	
Piping Furnace Tanks	21.6	14.9	14.9	14.9	
Piping Hydrogen Tanks Compressor	24.4	17.8	17.8	17.8	
Piping Hydrogen Tanks Compressor w NC	43.5	36.8	36.8	36.8	
Piping Hydrogen Tanks Compressorw NC	41.3	34.6	34.6	34.6	
Pre-Treat Train-Pre-Treat Outside Area E	35.7	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area N	44.5	37.8	37.8	37.8	
Pre-Treat Train-Pre-Treat Outside Area N2	41.3	34.7	34.7	34.7	
Pre-Treat Train-Pre-Treat Outside Area S	37.3	30.6	30.6	30.6	
Pre-Treat Train-Pre-Treat Outside Area S2	32.6	26.0	26.0	26.0	
Pre-Treat Train-Pre-Treat Outside Area W1	38.5	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area W2	43.9	37.2	37.2	37.2	
Pre-Treat Train-Pre-Treat Outside Area W3	35.2	28.6	28.6	28.6	
Pre-Treat Train-Roof 01	46.1	39.4	39.4	39.4	
PSA Pipe 3" Lagging	12.0	5.3	5.3	5.3	
PSA Skid Additional Piping w NC	45.3	38.6	38.6	38.6	
Reformer-Burner Reformer East	38.2	31.5	31.5	31.5	
Reformer-Burner Reformer North	26.3	19.7	19.7	19.7	
Reformer-Burner Reformer South	37.8	31.1	31.1	31.1	
Reformer-Burner Reformer West	30.9	24.3	24.3	24.3	
xxxx xxxx xxxx xxxx	20.2	13.9		13.9	
xxxx xxxx xxxx xxxx	21.3	15.0		15.0	
RFG A from battery to process	29.8	23.2	23.2	23.2	
RFG A from battery to process w NC	41.1	34.5	34.5	34.5	
xxxx xxxx xxxx xxxx	27.2	25.7	24.0	18.1	
xxxx xxxx xxxx xxxx	27.5	26.0	24.3	18.4	
Stack Noise	53.3	46.6	46.6	46.6	
Steam Turbine-Facade 01	25.9	19.3	19.3	19.3	
Steam Turbine-Facade 02	22.9	16.2	16.2	16.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Steam Turbine-Facade 03	26.2	19.5	19.5	19.5	
Steam Turbine-Facade 04	22.4	15.8	15.8	15.8	
Steam Turbine-Roof 01	26.4	19.7	19.7	19.7	
Tank Farm Pump 1	34.9	28.2	28.2	28.2	
Tank Farm Pump 2	33.0	26.3	26.3	26.3	
Tank Farm Pump 3	34.4	27.7	27.7	27.7	
UP Train Locomotive Delivery and Pickup 2022 2x	28.4	31.5			
XF-1502 Splitter Area 1	43.7	37.0	37.0	37.0	
XF-1502 Splitter Area 2	45.5	38.9	38.9	38.9	
XF-1504 Splitter Area 1	46.0	39.3	39.3	39.3	
XF-1504 Splitter Area 2	37.1	30.5	30.5	30.5	
XF - 1601	40.0	33.3	33.3	33.3	
XF - 1602	41.0	34.4	34.4	34.4	
XF 251, 250, 271, 270	44.3	37.6	37.6	37.6	
XF 260, 261A, 261 B	30.8	24.1	24.1	24.1	
XF 304, XF 321	43.0	36.3	36.3	36.3	
XF 313, XF 314	42.9	36.3	36.3	36.3	
XF 335-1, XF 335-2	44.6	38.0	38.0	38.0	
XF 353A/B	35.9	29.2	29.2	29.2	
XF 353A/B	36.8	30.1	30.1	30.1	
XF 354A/B	35.5	28.8	28.8	28.8	
XF 503	45.5	38.8	38.8	38.8	
XF Module 1510	47.9	41.2	41.2	41.2	
XF Module 1519	46.7	40.0	40.0	40.0	
Receiver MH-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.3 dB(A) Ld 7-19 dB(A) Leq,N 59.3 dB(A) Le 19-					
ID Fan Motor	48.0	41.3	41.3	41.3	
18-1855 A/B	33.2	26.5	26.5	26.5	
18-1856 A/B	33.7	27.1	27.1	27.1	
18-1857 A/B	31.4	24.7	24.7	24.7	
18-1858 A/B	40.7	34.1	34.1	34.1	
18-PK 1802 Air Compressor Package	42.6	35.9	35.9	35.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	32.6	33.9	31.5		
Air Compressor C 1	42.8	36.1	36.1	36.1	
Air Compressor Pump	26.7	20.1	20.1	20.1	
Blower F 401	45.2	38.6	38.6	38.6	
Boiler Crude Unit-Heater Opening	34.3	27.6	27.6	27.6	
Boiler Feed Water Pump A	44.3	37.7	37.7	37.7	
Boiler Feed Water Pump B	44.1	37.4	37.4	37.4	
C-270 A	49.9	43.2	43.2	43.2	
C-270 B	50.8	44.1	44.1	44.1	
C-270 C	50.4	43.7	43.7	43.7	
C-301 Compressor	54.9	48.2	48.2	48.2	
C-301 Motor	54.0	47.3	47.3	47.3	
C-351 Compressor	50.1	43.4	43.4	43.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C-351 Motor	49.2	42.5	42.5	42.5	
C370 A Motor	36.0	29.3	29.3	29.3	
C370 B Motor	41.8	35.1	35.1	35.1	
C370A	36.1	29.4	29.4	29.4	
C370B	36.9	30.2	30.2	30.2	
Cars Pumping 6 times in during delivery	29.9	32.9			
Compressor House C301, C302, C 124-Comp House East 1	39.7	33.0	33.0	33.0	
Compressor House C301, C302, C 124-Comp House East 2	35.2	28.5	28.5	28.5	
Compressor House C301, C302, C 124-Comp House North	44.9	38.2	38.2	38.2	
Compressor House C301, C302, C 124-Comp House South 1	32.3	25.6	25.6	25.6	
Compressor House C301, C302, C 124-Comp House South 2	28.3	21.7	21.7	21.7	
Compressor House C301, C302, C 124-Comp House West	20.1	13.4	13.4	13.4	
xxxx xxxx xxxx xxxx	48.9	42.2	42.2	42.2	
Cooling Tower CT 510-CT 510 East Side	35.8	29.2	29.2	29.2	
Cooling Tower CT 510-CT 510 West Side	24.6	18.0	18.0	18.0	
Cooling Tower CT 511-CT 511 East Side	38.5	31.8	31.8	31.8	
Cooling Tower CT 511-CT 511 West Side	26.8	20.2	20.2	20.2	
Cooling Tower M 512	23.6	17.0	17.0	17.0	
Cooling Tower M 513	23.6	16.9	16.9	16.9	
Cooling Tower M 514	23.6	16.9	16.9	16.9	
xxxx xxxx xxxx xxxx	46.9	40.6		40.6	
xxxx xxxx xxxx xxxx	34.1	32.6	30.8	24.9	
xxxx xxxx xxxx xxxx	34.4	32.9	31.2	25.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	42.9	36.2	36.2	36.2	
FD Fan Assembly-FD Fan - East	46.6	39.9	39.9	39.9	
FD Fan Assembly-FD Fan - North	43.5	36.9	36.9	36.9	
FD Fan Assembly-FD Fan - Roof	48.1	41.5	41.5	41.5	
FD Fan Assembly-FD Fan - South	42.9	36.2	36.2	36.2	
FD Fan Assembly-FD Fan - West	47.0	40.3	40.3	40.3	
FD Motor	47.0	40.3	40.3	40.3	
Feed Compressor-A Compressor	37.0	30.4	30.4	30.4	
Feed Compressor-A Motor	35.2	28.6	28.6	28.6	
Feed Compressor-B Compressor	44.6	37.9	37.9	37.9	
Feed Compressor -B Motor	44.0	37.3	37.3	37.3	
H2S Compressor 18-C-271	36.8	30.1	30.1	30.1	
Heater # 5-Heater	26.8	20.2	20.2	20.2	
Heater # 5-Heater	27.1	20.4	20.4	20.4	
Heater # 5-Heater	27.2	20.5	20.5	20.5	
Hydro Heater H-402	31.6	24.9	24.9	24.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan-ID Fan - East (128302)	34.5	27.8	27.8	27.8	
ID Fan-ID Fan - East 1 (128306)	37.3	30.6	30.6	30.6	
ID Fan-ID Fan - North	45.0	38.3	38.3	38.3	
ID Fan-ID Fan - North 2	44.4	37.7	37.7	37.7	
ID Fan-ID Fan - South	39.6	32.9	32.9	32.9	
ID Fan-ID Fan - South 2	38.7	32.1	32.1	32.1	
ID Fan-ID Fan Roof 01 (128293)	48.2	41.5	41.5	41.5	
xxxx xxxx xxxx xxxx	37.7	36.1	34.4	28.5	
xxxx xxxx xxxx xxxx	38.0	36.5	34.8	28.9	
Motor & Pump P - 1502 Splitter Reflux Pu	27.1	20.5	20.5	20.5	
Motor & Pump P - 1503 Splitter Bottoms P	28.1	21.4	21.4	21.4	
Motor & Pump P - 1504 Splitter Bottoms P	29.0	22.3	22.3	22.3	
Motor & Pump P - 1507 Reactor Pump	43.1	36.4	36.4	36.4	
Motor & Pump P - 1508 Reactor Pump	28.1	21.5	21.5	21.5	
Motor & Pump P - 1511 Stabilizer Reflux	28.5	21.8	21.8	21.8	
Motor & Pump P - 1512 Stabilizer Reflux	41.2	34.5	34.5	34.5	
Motor & Pump P - 1513 Caustic Circulatin	27.9	21.2	21.2	21.2	
Motor & Pump P - 1514 Caustic Circulatin	40.1	33.5	33.5	33.5	
Motor & Pump P 120/121	26.7	20.0	20.0	20.0	
Motor & Pump P 1505 FRESH FEED PUMPS	28.8	22.1	22.1	22.1	
Motor & Pump P 1506 FRESH FEED PUMPS	30.3	23.7	23.7	23.7	
Motor & Pump P 1509 Chloride Injection P	24.1	17.4	17.4	17.4	
Motor & Pump P 1510 Chloride Injection P	24.1	17.5	17.5	17.5	
Motor & Pump P 1601 A	28.4	21.8	21.8	21.8	
Motor & Pump P 1601 B	28.4	21.8	21.8	21.8	
Motor & Pump P 1602 A	28.3	21.7	21.7	21.7	
Motor & Pump P 1602 B	26.3	19.6	19.6	19.6	
Motor & Pump P 211/212	22.5	15.8	15.8	15.8	
Motor & Pump P 215/214	26.9	20.3	20.3	20.3	
Motor & Pump P 216	29.4	22.8	22.8	22.8	
Motor & Pump P 217/218	22.3	15.6	15.6	15.6	
Motor & Pump P 300	28.6	21.9	21.9	21.9	
Motor & Pump P 301	34.3	27.6	27.6	27.6	
Motor & Pump P 302	29.5	22.8	22.8	22.8	
Motor & Pump P 303	28.9	22.2	22.2	22.2	
Motor & Pump P 305	27.1	20.4	20.4	20.4	
Motor & Pump P 306	41.7	35.0	35.0	35.0	
Motor & Pump P 307	34.7	28.0	28.0	28.0	
Motor & Pump P 309	25.9	19.2	19.2	19.2	
Motor & Pump P 312	32.4	25.8	25.8	25.8	
Motor & Pump P 313	32.6	26.0	26.0	26.0	
Motor & Pump P 315	34.1	27.4	27.4	27.4	
Motor & Pump P 316	33.5	26.8	26.8	26.8	
Motor & Pump P 317	33.4	26.8	26.8	26.8	
Motor & Pump P 318	31.6	25.0	25.0	25.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 319	31.2	24.6	24.6	24.6	
Motor & Pump P 327	40.6	34.0	34.0	34.0	
Motor & Pump P 328	38.4	31.8	31.8	31.8	
Motor & Pump P 329	38.5	31.8	31.8	31.8	
Motor & Pump P 451	26.2	19.5	19.5	19.5	
Motor & Pump P 453	22.9	16.2	16.2	16.2	
Motor & Pump P 454	21.2	14.6	14.6	14.6	
Motor & Pump P 457	22.4	15.8	15.8	15.8	
Motor & Pump P 458	24.2	17.5	17.5	17.5	
Motor & Pump P 459	21.2	14.6	14.6	14.6	
Motor & Pump P 56A/B	23.0	16.4	16.4	16.4	
Nitrogen Skid w Compressor 18-PK 1806	35.1	28.4	28.4	28.4	
P-060 A/B	31.0	24.4	24.4	24.4	
P-1101 A	30.1	23.4	23.4	23.4	
P-1103	34.7	28.1	28.1	28.1	
P-1105 A/B/C	28.7	22.1	22.1	22.1	
P-1800	29.3	22.6	22.6	22.6	
P-1801	24.4	17.7	17.7	17.7	
P-1802	23.4	16.7	16.7	16.7	
P-1803	31.7	25.0	25.0	25.0	
P-1804	32.4	25.7	25.7	25.7	
P-1805	30.5	23.8	23.8	23.8	
P-1806	42.5	35.8	35.8	35.8	
P-1809 A	23.8	17.2	17.2	17.2	
P-1810 A/B/C	24.0	17.4	17.4	17.4	
P-1811 A/B	31.9	25.3	25.3	25.3	
P-1811 A/B	27.5	20.8	20.8	20.8	
P-1847 A/B	32.3	25.6	25.6	25.6	
P-1849 A/B	32.1	25.4	25.4	25.4	
P-1853	42.5	35.8	35.8	35.8	
P-2 A/B	30.7	24.1	24.1	24.1	
P-251 A/B	40.1	33.4	33.4	33.4	
P-252 A/B	44.4	37.7	37.7	37.7	
P-253	44.4	37.7	37.7	37.7	
P-254 A/B	43.8	37.2	37.2	37.2	
P-255 A/B	38.6	31.9	31.9	31.9	
P-255 A/B	42.7	36.0	36.0	36.0	
P-256 A/B	43.8	37.2	37.2	37.2	
P-259 A/B	43.6	36.9	36.9	36.9	
P-260	45.4	38.7	38.7	38.7	
P-261 A/B	25.7	19.0	19.0	19.0	
P-262 A/B	29.4	22.7	22.7	22.7	
P-263 A/B	45.5	38.8	38.8	38.8	
P-270 A/B	44.2	37.5	37.5	37.5	
P-271 A/B	41.3	34.6	34.6	34.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-272 A/B	40.6	34.0	34.0	34.0	
P-273 A/B	44.3	37.7	37.7	37.7	
P-275 A/B/C	40.2	33.6	33.6	33.6	
P-305	42.2	35.5	35.5	35.5	
P-306	43.5	36.8	36.8	36.8	
P-309	41.9	35.2	35.2	35.2	
P-328	42.1	35.5	35.5	35.5	
P-329	43.2	36.6	36.6	36.6	
P-353	42.6	35.9	35.9	35.9	
P-358 A/B	43.7	37.0	37.0	37.0	
P-359 A/B	44.1	37.4	37.4	37.4	
P-360 A/B	43.6	36.9	36.9	36.9	
P-361A	38.6	32.0	32.0	32.0	
P-371 A/B	27.9	21.2	21.2	21.2	
P-373 A/B	29.9	23.2	23.2	23.2	
P-374 A/B	30.1	23.4	23.4	23.4	
P-375 A/B	29.4	22.8	22.8	22.8	
P-376	29.4	22.7	22.7	22.7	
P-376 A/B	27.5	20.9	20.9	20.9	
P-377	29.5	22.9	22.9	22.9	
P-50 A/B	23.9	17.3	17.3	17.3	
P-51 A/B	32.0	25.3	25.3	25.3	
P-63	32.3	25.6	25.6	25.6	
P-70 A/B	31.0	24.3	24.3	24.3	
P-73 A/B	32.7	26.0	26.0	26.0	
Piping Furnace Tanks	21.6	14.9	14.9	14.9	
Piping Hydrogen Tanks Compressor	25.4	18.8	18.8	18.8	
Piping Hydrogen Tanks Compressor w NC	43.1	36.5	36.5	36.5	
Piping Hydrogen Tanks Compressorw NC	41.9	35.2	35.2	35.2	
Pre-Treat Train-Pre-Treat Outside Area E	35.8	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area N	43.6	36.9	36.9	36.9	
Pre-Treat Train-Pre-Treat Outside Area N2	41.9	35.2	35.2	35.2	
Pre-Treat Train-Pre-Treat Outside Area S	36.5	29.8	29.8	29.8	
Pre-Treat Train-Pre-Treat Outside Area S2	31.9	25.2	25.2	25.2	
Pre-Treat Train-Pre-Treat Outside Area W1	36.0	29.3	29.3	29.3	
Pre-Treat Train-Pre-Treat Outside Area W2	43.9	37.2	37.2	37.2	
Pre-Treat Train-Pre-Treat Outside Area W3	34.3	27.7	27.7	27.7	
Pre-Treat Train-Roof 01	44.4	37.7	37.7	37.7	
PSA Pipe 3" Lagging	13.4	6.7	6.7	6.7	
PSA Skid Additional Piping w NC	45.2	38.5	38.5	38.5	
Reformer-Burner Reformer East	46.2	39.5	39.5	39.5	
Reformer-Burner Reformer North	26.0	19.3	19.3	19.3	
Reformer-Burner Reformer South	52.1	45.4	45.4	45.4	
Reformer-Burner Reformer West	33.7	27.0	27.0	27.0	
xxxx xxxx xxxx xxxx	18.3	12.0		12.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	22.6	16.3		16.3	
RFG A from battery to process	27.9	21.2	21.2	21.2	
RFG A from battery to process w NC	41.2	34.5	34.5	34.5	
xxxx xxxx xxxx xxxx	28.3	26.8	25.1	19.2	
xxxx xxxx xxxx xxxx	28.4	26.9	25.2	19.3	
Stack Noise	53.4	46.7	46.7	46.7	
Steam Turbine-Facade 01	26.3	19.6	19.6	19.6	
Steam Turbine-Facade 02	23.2	16.6	16.6	16.6	
Steam Turbine-Facade 03	26.3	19.6	19.6	19.6	
Steam Turbine-Facade 04	22.0	15.3	15.3	15.3	
Steam Turbine-Roof 01	26.6	19.9	19.9	19.9	
Tank Farm Pump 1	31.8	25.1	25.1	25.1	
Tank Farm Pump 2	34.7	28.1	28.1	28.1	
Tank Farm Pump 3	39.4	32.7	32.7	32.7	
UP Train Locomotive Delivery and Pickup 2022 2x	27.0	30.0			
XF-1502 Splitter Area 1	46.2	39.5	39.5	39.5	
XF-1502 Splitter Area 2	43.6	36.9	36.9	36.9	
XF-1504 Splitter Area 1	43.7	37.1	37.1	37.1	
XF-1504 Splitter Area 2	41.7	35.1	35.1	35.1	
XF - 1601	34.3	27.7	27.7	27.7	
XF - 1602	33.8	27.1	27.1	27.1	
XF 251, 250, 271, 270	43.9	37.2	37.2	37.2	
XF 260, 261A, 261 B	38.4	31.7	31.7	31.7	
XF 304, XF 321	42.6	35.9	35.9	35.9	
XF 313, XF 314	42.8	36.1	36.1	36.1	
XF 335-1, XF 335-2	44.5	37.8	37.8	37.8	
XF 353A/B	36.5	29.8	29.8	29.8	
XF 353A/B	39.1	32.5	32.5	32.5	
XF 354A/B	36.7	30.0	30.0	30.0	
XF 503	49.0	42.4	42.4	42.4	
XF Module 1510	47.5	40.9	40.9	40.9	
XF Module 1519	54.1	47.4	47.4	47.4	
Receiver CA-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 60.3 dB(A)	Ld 7-19 dB(A)	Leq,N 60.1 dB(A)	Le 19-2
ID Fan Motor	51.1	44.5	44.5	44.5	
18-1855 A/B	33.8	27.1	27.1	27.1	
18-1856 A/B	41.0	34.3	34.3	34.3	
18-1857 A/B	33.2	26.5	26.5	26.5	
18-1858 A/B	45.9	39.3	39.3	39.3	
18-PK 1802 Air Compressor Package	52.8	46.2	46.2	46.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	35.8	37.2	34.8		
Air Compressor C 1	42.2	35.6	35.6	35.6	
Air Compressor Pump	26.6	19.9	19.9	19.9	
Blower F 401	46.9	40.2	40.2	40.2	
Boiler Crude Unit-Heater Opening	28.7	22.0	22.0	22.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Boiler Feed Water Pump A	47.1	40.5	40.5	40.5	
Boiler Feed Water Pump B	47.5	40.8	40.8	40.8	
C-270 A	53.6	47.0	47.0	47.0	
C-270 B	53.7	47.0	47.0	47.0	
C-270 C	54.3	47.6	47.6	47.6	
C-301 Compressor	43.3	36.6	36.6	36.6	
C-301 Motor	43.0	36.4	36.4	36.4	
C-351 Compressor	36.7	30.0	30.0	30.0	
C-351 Motor	35.8	29.1	29.1	29.1	
C370 A Motor	47.6	40.9	40.9	40.9	
C370 B Motor	51.0	44.3	44.3	44.3	
C370A	46.7	40.0	40.0	40.0	
C370B	49.0	42.3	42.3	42.3	
Cars Pumping 6 times in during delivery	32.9	35.9			
Compressor House C301, C302, C 124-Comp House East 1	47.7	41.1	41.1	41.1	
Compressor House C301, C302, C 124-Comp House East 2	41.6	34.9	34.9	34.9	
Compressor House C301, C302, C 124-Comp House North	48.9	42.2	42.2	42.2	
Compressor House C301, C302, C 124-Comp House South 1	36.0	29.3	29.3	29.3	
Compressor House C301, C302, C 124-Comp House South 2	33.5	26.8	26.8	26.8	
Compressor House C301, C302, C 124-Comp House West	19.7	13.1	13.1	13.1	
xxxx xxxx xxxx xxxx	49.2	42.5	42.5	42.5	
Cooling Tower CT 510-CT 510 East Side	34.9	28.2	28.2	28.2	
Cooling Tower CT 510-CT 510 West Side	18.8	12.1	12.1	12.1	
Cooling Tower CT 511-CT 511 East Side	35.4	28.7	28.7	28.7	
Cooling Tower CT 511-CT 511 West Side	27.7	21.1	21.1	21.1	
Cooling Tower M 512	23.4	16.7	16.7	16.7	
Cooling Tower M 513	23.1	16.4	16.4	16.4	
Cooling Tower M 514	23.4	16.8	16.8	16.8	
xxxx xxxx xxxx xxxx	47.7	41.4		41.4	
xxxx xxxx xxxx xxxx	39.3	37.8	36.1	30.2	
xxxx xxxx xxxx xxxx	39.8	38.3	36.6	30.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	43.2	36.5	36.5	36.5	
FD Fan Assembly-FD Fan - East	46.7	40.1	40.1	40.1	
FD Fan Assembly-FD Fan - North	42.6	35.9	35.9	35.9	
FD Fan Assembly-FD Fan - Roof	46.1	39.4	39.4	39.4	
FD Fan Assembly-FD Fan - South	42.6	35.9	35.9	35.9	
FD Fan Assembly-FD Fan - West	45.8	39.1	39.1	39.1	
FD Motor	51.5	44.9	44.9	44.9	
Feed Compressor-A Compressor	41.8	35.1	35.1	35.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Feed Compressor-A Motor	40.9	34.3	34.3	34.3	
Feed Compressor-B Compressor	53.1	46.4	46.4	46.4	
Feed Compressor -B Motor	51.2	44.5	44.5	44.5	
H2S Compressor 18-C-271	40.9	34.3	34.3	34.3	
Heater # 5-Heater	23.3	16.6	16.6	16.6	
Heater # 5-Heater	22.0	15.3	15.3	15.3	
Heater # 5-Heater	22.7	16.1	16.1	16.1	
Hydro Heater H-402	26.8	20.1	20.1	20.1	
ID Fan-ID Fan - East (128302)	35.4	28.7	28.7	28.7	
ID Fan-ID Fan - East 1 (128306)	40.4	33.8	33.8	33.8	
ID Fan-ID Fan - North	43.7	37.1	37.1	37.1	
ID Fan-ID Fan - North 2	45.1	38.4	38.4	38.4	
ID Fan-ID Fan - South	39.7	33.1	33.1	33.1	
ID Fan-ID Fan - South 2	38.5	31.8	31.8	31.8	
ID Fan-ID Fan Roof 01 (128293)	47.1	40.4	40.4	40.4	
xxxx xxxx xxxx xxxx	42.7	41.2	39.5	33.6	
xxxx xxxx xxxx xxxx	42.8	41.3	39.6	33.7	
Motor & Pump P - 1502 Splitter Reflux Pu	25.0	18.4	18.4	18.4	
Motor & Pump P - 1503 Splitter Bottoms P	27.2	20.6	20.6	20.6	
Motor & Pump P - 1504 Splitter Bottoms P	27.3	20.6	20.6	20.6	
Motor & Pump P - 1507 Reactor Pump	25.3	18.6	18.6	18.6	
Motor & Pump P - 1508 Reactor Pump	25.3	18.6	18.6	18.6	
Motor & Pump P - 1511 Stabilizer Reflux	26.5	19.9	19.9	19.9	
Motor & Pump P - 1512 Stabilizer Reflux	26.7	20.0	20.0	20.0	
Motor & Pump P - 1513 Caustic Circulatin	26.6	19.9	19.9	19.9	
Motor & Pump P - 1514 Caustic Circulatin	27.6	20.9	20.9	20.9	
Motor & Pump P 120/121	26.7	20.0	20.0	20.0	
Motor & Pump P 1505 FRESH FEED PUMPS	26.9	20.2	20.2	20.2	
Motor & Pump P 1506 FRESH FEED PUMPS	26.9	20.2	20.2	20.2	
Motor & Pump P 1509 Chloride Injection P	22.5	15.8	15.8	15.8	
Motor & Pump P 1510 Chloride Injection P	23.1	16.4	16.4	16.4	
Motor & Pump P 1601 A	27.8	21.2	21.2	21.2	
Motor & Pump P 1601 B	27.7	21.0	21.0	21.0	
Motor & Pump P 1602 A	26.3	19.6	19.6	19.6	
Motor & Pump P 1602 B	26.5	19.8	19.8	19.8	
Motor & Pump P 211/212	21.3	14.6	14.6	14.6	
Motor & Pump P 215/214	36.5	29.9	29.9	29.9	
Motor & Pump P 216	25.9	19.3	19.3	19.3	
Motor & Pump P 217/218	21.6	14.9	14.9	14.9	
Motor & Pump P 300	27.2	20.5	20.5	20.5	
Motor & Pump P 301	33.6	26.9	26.9	26.9	
Motor & Pump P 302	27.8	21.2	21.2	21.2	
Motor & Pump P 303	28.0	21.4	21.4	21.4	
Motor & Pump P 305	27.5	20.8	20.8	20.8	
Motor & Pump P 306	41.0	34.4	34.4	34.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 307	35.1	28.5	28.5	28.5	
Motor & Pump P 309	25.3	18.6	18.6	18.6	
Motor & Pump P 312	31.7	25.1	25.1	25.1	
Motor & Pump P 313	31.7	25.0	25.0	25.0	
Motor & Pump P 315	34.2	27.6	27.6	27.6	
Motor & Pump P 316	33.2	26.5	26.5	26.5	
Motor & Pump P 317	33.4	26.8	26.8	26.8	
Motor & Pump P 318	31.7	25.1	25.1	25.1	
Motor & Pump P 319	31.1	24.4	24.4	24.4	
Motor & Pump P 327	39.6	32.9	32.9	32.9	
Motor & Pump P 328	37.9	31.3	31.3	31.3	
Motor & Pump P 329	37.8	31.1	31.1	31.1	
Motor & Pump P 451	20.0	13.3	13.3	13.3	
Motor & Pump P 453	21.5	14.9	14.9	14.9	
Motor & Pump P 454	22.4	15.7	15.7	15.7	
Motor & Pump P 457	28.8	22.1	22.1	22.1	
Motor & Pump P 458	20.0	13.4	13.4	13.4	
Motor & Pump P 459	22.3	15.7	15.7	15.7	
Motor & Pump P 56A/B	21.9	15.2	15.2	15.2	
Nitrogen Skid w Compressor 18-PK 1806	34.7	28.0	28.0	28.0	
P-060 A/B	33.3	26.6	26.6	26.6	
P-1101 A	26.9	20.2	20.2	20.2	
P-1103	26.8	20.1	20.1	20.1	
P-1105 A/B/C	26.3	19.6	19.6	19.6	
P-1800	25.0	18.3	18.3	18.3	
P-1801	23.8	17.1	17.1	17.1	
P-1802	24.6	18.0	18.0	18.0	
P-1803	30.2	23.5	23.5	23.5	
P-1804	26.9	20.2	20.2	20.2	
P-1805	27.1	20.4	20.4	20.4	
P-1806	31.9	25.3	25.3	25.3	
P-1809 A	25.5	18.8	18.8	18.8	
P-1810 A/B/C	27.6	21.0	21.0	21.0	
P-1811 A/B	28.2	21.5	21.5	21.5	
P-1811 A/B	25.4	18.7	18.7	18.7	
P-1847 A/B	31.0	24.3	24.3	24.3	
P-1849 A/B	30.7	24.0	24.0	24.0	
P-1853	42.8	36.2	36.2	36.2	
P-2 A/B	27.5	20.8	20.8	20.8	
P-251 A/B	36.4	29.8	29.8	29.8	
P-252 A/B	41.1	34.4	34.4	34.4	
P-253	46.5	39.8	39.8	39.8	
P-254 A/B	46.7	40.0	40.0	40.0	
P-255 A/B	39.9	33.2	33.2	33.2	
P-255 A/B	43.7	37.0	37.0	37.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-256 A/B	41.3	34.7	34.7	34.7	
P-259 A/B	44.2	37.5	37.5	37.5	
P-260	45.8	39.1	39.1	39.1	
P-261 A/B	34.2	27.5	27.5	27.5	
P-262 A/B	45.2	38.5	38.5	38.5	
P-263 A/B	45.7	39.0	39.0	39.0	
P-270 A/B	44.6	37.9	37.9	37.9	
P-271 A/B	47.8	41.2	41.2	41.2	
P-272 A/B	46.0	39.3	39.3	39.3	
P-273 A/B	44.5	37.9	37.9	37.9	
P-275 A/B/C	48.4	41.7	41.7	41.7	
P-305	39.2	32.6	32.6	32.6	
P-306	31.9	25.2	25.2	25.2	
P-309	38.1	31.4	31.4	31.4	
P-328	30.5	23.8	23.8	23.8	
P-329	31.9	25.2	25.2	25.2	
P-353	36.8	30.1	30.1	30.1	
P-358 A/B	33.3	26.7	26.7	26.7	
P-359 A/B	33.2	26.6	26.6	26.6	
P-360 A/B	33.1	26.5	26.5	26.5	
P-361A	26.8	20.2	20.2	20.2	
P-371 A/B	29.4	22.8	22.8	22.8	
P-373 A/B	28.5	21.9	21.9	21.9	
P-374 A/B	29.0	22.3	22.3	22.3	
P-375 A/B	28.8	22.1	22.1	22.1	
P-376	37.1	30.4	30.4	30.4	
P-376 A/B	28.6	21.9	21.9	21.9	
P-377	28.7	22.1	22.1	22.1	
P-50 A/B	26.7	20.0	20.0	20.0	
P-51 A/B	26.5	19.9	19.9	19.9	
P-63	28.0	21.3	21.3	21.3	
P-70 A/B	33.2	26.5	26.5	26.5	
P-73 A/B	29.1	22.4	22.4	22.4	
Piping Furnace Tanks	25.3	18.6	18.6	18.6	
Piping Hydrogen Tanks Compressor	34.8	28.1	28.1	28.1	
Piping Hydrogen Tanks Compressor w NC	47.5	40.8	40.8	40.8	
Piping Hydrogen Tanks Compressorw NC	43.8	37.1	37.1	37.1	
Pre-Treat Train-Pre-Treat Outside Area E	36.6	29.9	29.9	29.9	
Pre-Treat Train-Pre-Treat Outside Area N	45.9	39.2	39.2	39.2	
Pre-Treat Train-Pre-Treat Outside Area N2	35.3	28.7	28.7	28.7	
Pre-Treat Train-Pre-Treat Outside Area S	36.8	30.1	30.1	30.1	
Pre-Treat Train-Pre-Treat Outside Area S2	31.3	24.6	24.6	24.6	
Pre-Treat Train-Pre-Treat Outside Area W1	34.7	28.0	28.0	28.0	
Pre-Treat Train-Pre-Treat Outside Area W2	39.8	33.1	33.1	33.1	
Pre-Treat Train-Pre-Treat Outside Area W3	33.3	26.6	26.6	26.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Roof 01	47.2	40.5	40.5	40.5	
PSA Pipe 3" Lagging	17.1	10.4	10.4	10.4	
PSA Skid Additional Piping w NC	50.3	43.6	43.6	43.6	
Reformer-Burner Reformer East	54.0	47.3	47.3	47.3	
Reformer-Burner Reformer North	34.4	27.8	27.8	27.8	
Reformer-Burner Reformer South	50.5	43.9	43.9	43.9	
Reformer-Burner Reformer West	32.6	25.9	25.9	25.9	
xxxx xxxx xxxx xxxx	15.8	9.6		9.6	
xxxx xxxx xxxx xxxx	19.9	13.6		13.6	
RFG A from battery to process	37.2	30.5	30.5	30.5	
RFG A from battery to process w NC	42.8	36.1	36.1	36.1	
xxxx xxxx xxxx xxxx	29.6	28.1	26.4	20.5	
xxxx xxxx xxxx xxxx	29.7	28.2	26.4	20.5	
Stack Noise	53.1	46.4	46.4	46.4	
Steam Turbine-Facade 01	25.2	18.6	18.6	18.6	
Steam Turbine-Facade 02	21.8	15.1	15.1	15.1	
Steam Turbine-Facade 03	25.9	19.3	19.3	19.3	
Steam Turbine-Facade 04	22.3	15.7	15.7	15.7	
Steam Turbine-Roof 01	27.3	20.7	20.7	20.7	
Tank Farm Pump 1	33.2	26.5	26.5	26.5	
Tank Farm Pump 2	33.0	26.4	26.4	26.4	
Tank Farm Pump 3	30.0	23.3	23.3	23.3	
UP Train Locomotive Delivery and Pickup 2022 2x	27.0	30.0			
XF-1502 Splitter Area 1	38.8	32.2	32.2	32.2	
XF-1502 Splitter Area 2	37.3	30.7	30.7	30.7	
XF-1504 Splitter Area 1	37.6	30.9	30.9	30.9	
XF-1504 Splitter Area 2	36.4	29.7	29.7	29.7	
XF - 1601	37.6	31.0	31.0	31.0	
XF - 1602	37.2	30.6	30.6	30.6	
XF 251, 250, 271, 270	46.5	39.8	39.8	39.8	
XF 260, 261A, 261 B	43.0	36.3	36.3	36.3	
XF 304, XF 321	42.5	35.8	35.8	35.8	
XF 313, XF 314	41.7	35.0	35.0	35.0	
XF 335-1, XF 335-2	44.5	37.8	37.8	37.8	
XF 353A/B	31.2	24.6	24.6	24.6	
XF 353A/B	31.4	24.8	24.8	24.8	
XF 354A/B	35.2	28.5	28.5	28.5	
XF 503	51.6	44.9	44.9	44.9	
XF Module 1510	40.8	34.2	34.2	34.2	
XF Module 1519	43.9	37.2	37.2	37.2	
Receiver CA-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 57.9 dB(A) Ld 7-19 dB(A) Leq,N 57.8 dB(A) Le 19-2					
ID Fan Motor	53.9	47.2	47.2	47.2	
18-1855 A/B	31.6	25.0	25.0	25.0	
18-1856 A/B	31.6	24.9	24.9	24.9	
18-1857 A/B	31.7	25.1	25.1	25.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
18-1858 A/B	40.4	33.7	33.7	33.7	
18-PK 1802 Air Compressor Package	40.8	34.1	34.1	34.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	36.0	37.4	34.9		
Air Compressor C 1	41.3	34.7	34.7	34.7	
Air Compressor Pump	27.1	20.4	20.4	20.4	
Blower F 401	47.0	40.3	40.3	40.3	
Boiler Crude Unit-Heater Opening	39.3	32.7	32.7	32.7	
Boiler Feed Water Pump A	37.2	30.5	30.5	30.5	
Boiler Feed Water Pump B	35.4	28.7	28.7	28.7	
C-270 A	41.2	34.6	34.6	34.6	
C-270 B	40.3	33.7	33.7	33.7	
C-270 C	38.6	32.0	32.0	32.0	
C-301 Compressor	48.7	42.0	42.0	42.0	
C-301 Motor	47.8	41.2	41.2	41.2	
C-351 Compressor	43.8	37.1	37.1	37.1	
C-351 Motor	44.0	37.3	37.3	37.3	
C370 A Motor	46.2	39.5	39.5	39.5	
C370 B Motor	44.8	38.1	38.1	38.1	
C370A	48.4	41.7	41.7	41.7	
C370B	40.8	34.1	34.1	34.1	
Cars Pumping 6 times in during delivery	31.7	34.7			
Compressor House C301, C302, C 124-Comp House East 1	38.3	31.6	31.6	31.6	
Compressor House C301, C302, C 124-Comp House East 2	35.5	28.8	28.8	28.8	
Compressor House C301, C302, C 124-Comp House North	47.9	41.3	41.3	41.3	
Compressor House C301, C302, C 124-Comp House South 1	30.2	23.6	23.6	23.6	
Compressor House C301, C302, C 124-Comp House South 2	22.7	16.0	16.0	16.0	
Compressor House C301, C302, C 124-Comp House West	19.8	13.1	13.1	13.1	
xxxx xxxx xxxx xxxx	46.2	39.5	39.5	39.5	
Cooling Tower CT 510-CT 510 East Side	33.3	26.6	26.6	26.6	
Cooling Tower CT 510-CT 510 West Side	19.3	12.6	12.6	12.6	
Cooling Tower CT 511-CT 511 East Side	36.0	29.3	29.3	29.3	
Cooling Tower CT 511-CT 511 West Side	29.5	22.8	22.8	22.8	
Cooling Tower M 512	25.1	18.5	18.5	18.5	
Cooling Tower M 513	25.1	18.5	18.5	18.5	
Cooling Tower M 514	24.2	17.5	17.5	17.5	
xxxx xxxx xxxx xxxx	44.4	38.1		38.1	
xxxx xxxx xxxx xxxx	26.7	25.2	23.5	17.5	
xxxx xxxx xxxx xxxx	26.8	25.3	23.6	17.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
E 321 Fin Fan Hydrogen Plant - Low Noise	38.2	31.5	31.5	31.5	
FD Fan Assembly-FD Fan - East	46.2	39.5	39.5	39.5	
FD Fan Assembly-FD Fan - North	42.0	35.3	35.3	35.3	
FD Fan Assembly-FD Fan - Roof	44.4	37.8	37.8	37.8	
FD Fan Assembly-FD Fan - South	42.7	36.0	36.0	36.0	
FD Fan Assembly-FD Fan - West	44.6	37.9	37.9	37.9	
FD Motor	51.9	45.2	45.2	45.2	
Feed Compressor-A Compressor	42.9	36.2	36.2	36.2	
Feed Compressor-A Motor	50.3	43.7	43.7	43.7	
Feed Compressor-B Compressor	51.7	45.0	45.0	45.0	
Feed Compressor -B Motor	48.8	42.1	42.1	42.1	
H2S Compressor 18-C-271	43.3	36.7	36.7	36.7	
Heater # 5-Heater	28.1	21.5	21.5	21.5	
Heater # 5-Heater	23.1	16.4	16.4	16.4	
Heater # 5-Heater	32.1	25.4	25.4	25.4	
Hydro Heater H-402	26.5	19.8	19.8	19.8	
ID Fan-ID Fan - East (128302)	29.4	22.8	22.8	22.8	
ID Fan-ID Fan - East 1 (128306)	33.1	26.5	26.5	26.5	
ID Fan-ID Fan - North	40.1	33.4	33.4	33.4	
ID Fan-ID Fan - North 2	40.1	33.5	33.5	33.5	
ID Fan-ID Fan - South	35.2	28.6	28.6	28.6	
ID Fan-ID Fan - South 2	32.4	25.8	25.8	25.8	
ID Fan-ID Fan Roof 01 (128293)	42.4	35.8	35.8	35.8	
xxxx xxxx xxxx xxxx	35.6	34.1	32.4	26.5	
xxxx xxxx xxxx xxxx	36.0	34.5	32.8	26.8	
Motor & Pump P - 1502 Splitter Reflux Pu	29.1	22.4	22.4	22.4	
Motor & Pump P - 1503 Splitter Bottoms P	28.9	22.2	22.2	22.2	
Motor & Pump P - 1504 Splitter Bottoms P	29.0	22.3	22.3	22.3	
Motor & Pump P - 1507 Reactor Pump	26.8	20.2	20.2	20.2	
Motor & Pump P - 1508 Reactor Pump	27.5	20.8	20.8	20.8	
Motor & Pump P - 1511 Stabilizer Reflux	25.8	19.1	19.1	19.1	
Motor & Pump P - 1512 Stabilizer Reflux	25.3	18.7	18.7	18.7	
Motor & Pump P - 1513 Caustic Circulatin	27.7	21.1	21.1	21.1	
Motor & Pump P - 1514 Caustic Circulatin	27.4	20.7	20.7	20.7	
Motor & Pump P 120/121	27.1	20.4	20.4	20.4	
Motor & Pump P 1505 FRESH FEED PUMPS	27.4	20.8	20.8	20.8	
Motor & Pump P 1506 FRESH FEED PUMPS	26.3	19.7	19.7	19.7	
Motor & Pump P 1509 Chloride Injection P	23.1	16.4	16.4	16.4	
Motor & Pump P 1510 Chloride Injection P	23.8	17.2	17.2	17.2	
Motor & Pump P 1601 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1601 B	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 A	28.1	21.4	21.4	21.4	
Motor & Pump P 1602 B	28.3	21.6	21.6	21.6	
Motor & Pump P 211/212	23.0	16.3	16.3	16.3	
Motor & Pump P 215/214	23.7	17.0	17.0	17.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 216	24.6	17.9	17.9	17.9	
Motor & Pump P 217/218	22.4	15.8	15.8	15.8	
Motor & Pump P 300	27.5	20.8	20.8	20.8	
Motor & Pump P 301	33.1	26.4	26.4	26.4	
Motor & Pump P 302	28.1	21.4	21.4	21.4	
Motor & Pump P 303	27.3	20.7	20.7	20.7	
Motor & Pump P 305	27.3	20.6	20.6	20.6	
Motor & Pump P 306	40.7	34.0	34.0	34.0	
Motor & Pump P 307	35.8	29.1	29.1	29.1	
Motor & Pump P 309	24.4	17.7	17.7	17.7	
Motor & Pump P 312	33.1	26.5	26.5	26.5	
Motor & Pump P 313	33.1	26.4	26.4	26.4	
Motor & Pump P 315	35.7	29.0	29.0	29.0	
Motor & Pump P 316	33.8	27.1	27.1	27.1	
Motor & Pump P 317	34.1	27.5	27.5	27.5	
Motor & Pump P 318	31.7	25.1	25.1	25.1	
Motor & Pump P 319	32.7	26.0	26.0	26.0	
Motor & Pump P 327	39.9	33.2	33.2	33.2	
Motor & Pump P 328	37.0	30.4	30.4	30.4	
Motor & Pump P 329	37.2	30.5	30.5	30.5	
Motor & Pump P 451	23.1	16.5	16.5	16.5	
Motor & Pump P 453	23.8	17.1	17.1	17.1	
Motor & Pump P 454	23.3	16.7	16.7	16.7	
Motor & Pump P 457	23.8	17.1	17.1	17.1	
Motor & Pump P 458	23.1	16.4	16.4	16.4	
Motor & Pump P 459	21.9	15.3	15.3	15.3	
Motor & Pump P 56A/B	21.1	14.5	14.5	14.5	
Nitrogen Skid w Compressor 18-PK 1806	34.9	28.2	28.2	28.2	
P-060 A/B	24.8	18.1	18.1	18.1	
P-1101 A	29.5	22.8	22.8	22.8	
P-1103	31.1	24.5	24.5	24.5	
P-1105 A/B/C	27.8	21.2	21.2	21.2	
P-1800	25.6	19.0	19.0	19.0	
P-1801	30.9	24.3	24.3	24.3	
P-1802	31.0	24.3	24.3	24.3	
P-1803	36.8	30.1	30.1	30.1	
P-1804	29.5	22.8	22.8	22.8	
P-1805	28.7	22.1	22.1	22.1	
P-1806	34.5	27.9	27.9	27.9	
P-1809 A	26.4	19.8	19.8	19.8	
P-1810 A/B/C	28.3	21.6	21.6	21.6	
P-1811 A/B	29.7	23.1	23.1	23.1	
P-1811 A/B	24.9	18.2	18.2	18.2	
P-1847 A/B	33.3	26.7	26.7	26.7	
P-1849 A/B	32.5	25.8	25.8	25.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1853	30.4	23.7	23.7	23.7	
P-2 A/B	29.1	22.4	22.4	22.4	
P-251 A/B	32.9	26.2	26.2	26.2	
P-252 A/B	32.9	26.2	26.2	26.2	
P-253	32.2	25.6	25.6	25.6	
P-254 A/B	31.6	25.0	25.0	25.0	
P-255 A/B	33.3	26.6	26.6	26.6	
P-255 A/B	33.6	26.9	26.9	26.9	
P-256 A/B	31.9	25.2	25.2	25.2	
P-259 A/B	36.5	29.8	29.8	29.8	
P-260	31.6	25.0	25.0	25.0	
P-261 A/B	35.0	28.3	28.3	28.3	
P-262 A/B	34.4	27.7	27.7	27.7	
P-263 A/B	32.6	25.9	25.9	25.9	
P-270 A/B	31.2	24.5	24.5	24.5	
P-271 A/B	29.0	22.4	22.4	22.4	
P-272 A/B	31.6	24.9	24.9	24.9	
P-273 A/B	30.0	23.3	23.3	23.3	
P-275 A/B/C	29.3	22.7	22.7	22.7	
P-305	28.8	22.1	22.1	22.1	
P-306	33.1	26.4	26.4	26.4	
P-309	27.7	21.0	21.0	21.0	
P-328	43.4	36.7	36.7	36.7	
P-329	38.4	31.7	31.7	31.7	
P-353	28.7	22.0	22.0	22.0	
P-358 A/B	47.1	40.4	40.4	40.4	
P-359 A/B	46.9	40.2	40.2	40.2	
P-360 A/B	46.8	40.1	40.1	40.1	
P-361A	28.1	21.5	21.5	21.5	
P-371 A/B	28.5	21.8	21.8	21.8	
P-373 A/B	29.1	22.5	22.5	22.5	
P-374 A/B	26.7	20.0	20.0	20.0	
P-375 A/B	26.5	19.8	19.8	19.8	
P-376	30.1	23.4	23.4	23.4	
P-376 A/B	35.3	28.7	28.7	28.7	
P-377	26.6	20.0	20.0	20.0	
P-50 A/B	29.7	23.1	23.1	23.1	
P-51 A/B	29.1	22.4	22.4	22.4	
P-63	29.1	22.5	22.5	22.5	
P-70 A/B	29.6	23.0	23.0	23.0	
P-73 A/B	31.9	25.2	25.2	25.2	
Piping Furnace Tanks	30.8	24.1	24.1	24.1	
Piping Hydrogen Tanks Compressor	40.6	33.9	33.9	33.9	
Piping Hydrogen Tanks Compressor w NC	42.7	36.0	36.0	36.0	
Piping Hydrogen Tanks Compressorw NC	39.5	32.9	32.9	32.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Pre-Treat Outside Area E	36.7	30.1	30.1	30.1	
Pre-Treat Train-Pre-Treat Outside Area N	44.1	37.5	37.5	37.5	
Pre-Treat Train-Pre-Treat Outside Area N2	36.6	29.9	29.9	29.9	
Pre-Treat Train-Pre-Treat Outside Area S	37.7	31.1	31.1	31.1	
Pre-Treat Train-Pre-Treat Outside Area S2	33.0	26.3	26.3	26.3	
Pre-Treat Train-Pre-Treat Outside Area W1	36.7	30.0	30.0	30.0	
Pre-Treat Train-Pre-Treat Outside Area W2	42.5	35.8	35.8	35.8	
Pre-Treat Train-Pre-Treat Outside Area W3	39.1	32.4	32.4	32.4	
Pre-Treat Train-Roof 01	45.5	38.8	38.8	38.8	
PSA Pipe 3" Lagging	22.0	15.3	15.3	15.3	
PSA Skid Additional Piping w NC	45.0	38.3	38.3	38.3	
Reformer-Burner Reformer East	53.4	46.8	46.8	46.8	
Reformer-Burner Reformer North	31.5	24.9	24.9	24.9	
Reformer-Burner Reformer South	49.4	42.7	42.7	42.7	
Reformer-Burner Reformer West	32.0	25.3	25.3	25.3	
xxxx xxxx xxxx xxxx	23.6	17.3		17.3	
xxxx xxxx xxxx xxxx	22.8	16.5		16.5	
RFG A from battery to process	42.3	35.6	35.6	35.6	
RFG A from battery to process w NC	39.4	32.7	32.7	32.7	
xxxx xxxx xxxx xxxx	23.7	22.2	20.5	14.6	
xxxx xxxx xxxx xxxx	24.2	22.7	21.0	15.0	
Stack Noise	53.0	46.3	46.3	46.3	
Steam Turbine-Facade 01	24.0	17.3	17.3	17.3	
Steam Turbine-Facade 02	21.9	15.2	15.2	15.2	
Steam Turbine-Facade 03	26.0	19.4	19.4	19.4	
Steam Turbine-Facade 04	22.2	15.6	15.6	15.6	
Steam Turbine-Roof 01	26.5	19.9	19.9	19.9	
Tank Farm Pump 1	35.1	28.4	28.4	28.4	
Tank Farm Pump 2	32.2	25.5	25.5	25.5	
Tank Farm Pump 3	31.2	24.5	24.5	24.5	
UP Train Locomotive Delivery and Pickup 2022 2x	25.8	28.9			
XF-1502 Splitter Area 1	35.0	28.3	28.3	28.3	
XF-1502 Splitter Area 2	34.7	28.0	28.0	28.0	
XF-1504 Splitter Area 1	34.7	28.1	28.1	28.1	
XF-1504 Splitter Area 2	34.6	27.9	27.9	27.9	
XF - 1601	37.9	31.2	31.2	31.2	
XF - 1602	38.0	31.3	31.3	31.3	
XF 251, 250, 271, 270	35.5	28.8	28.8	28.8	
XF 260, 261A, 261 B	41.0	34.3	34.3	34.3	
XF 304, XF 321	43.1	36.4	36.4	36.4	
XF 313, XF 314	42.3	35.6	35.6	35.6	
XF 335-1, XF 335-2	44.0	37.3	37.3	37.3	
XF 353A/B	39.6	33.0	33.0	33.0	
XF 353A/B	40.0	33.3	33.3	33.3	
XF 354A/B	33.1	26.4	26.4	26.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 503	42.5	35.8	35.8	35.8	
XF Module 1510	37.8	31.1	31.1	31.1	
XF Module 1519	38.9	32.3	32.3	32.3	
Receiver CA-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 58.3 dB(A) Ld 7-19 dB(A) Leq,N 58.2 dB(A) Le 19-2					
ID Fan Motor	39.1	32.4	32.4	32.4	
18-1855 A/B	30.8	24.1	24.1	24.1	
18-1856 A/B	31.6	24.9	24.9	24.9	
18-1857 A/B	30.3	23.6	23.6	23.6	
18-1858 A/B	32.8	26.2	26.2	26.2	
18-PK 1802 Air Compressor Package	43.1	36.4	36.4	36.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	33.1	34.5	32.1		
Air Compressor C 1	41.0	34.3	34.3	34.3	
Air Compressor Pump	24.6	17.9	17.9	17.9	
Blower F 401	46.3	39.6	39.6	39.6	
Boiler Crude Unit-Heater Opening	34.6	28.0	28.0	28.0	
Boiler Feed Water Pump A	35.2	28.5	28.5	28.5	
Boiler Feed Water Pump B	36.2	29.6	29.6	29.6	
C-270 A	53.6	46.9	46.9	46.9	
C-270 B	53.5	46.9	46.9	46.9	
C-270 C	53.9	47.3	47.3	47.3	
C-301 Compressor	55.3	48.7	48.7	48.7	
C-301 Motor	54.3	47.7	47.7	47.7	
C-351 Compressor	50.8	44.1	44.1	44.1	
C-351 Motor	50.1	43.4	43.4	43.4	
C370 A Motor	40.6	33.9	33.9	33.9	
C370 B Motor	41.6	34.9	34.9	34.9	
C370A	43.0	36.3	36.3	36.3	
C370B	37.6	31.0	31.0	31.0	
Cars Pumping 6 times in during delivery	28.8	31.9			
Compressor House C301, C302, C 124-Comp House East 1	35.8	29.2	29.2	29.2	
Compressor House C301, C302, C 124-Comp House East 2	32.3	25.6	25.6	25.6	
Compressor House C301, C302, C 124-Comp House North	45.3	38.6	38.6	38.6	
Compressor House C301, C302, C 124-Comp House South 1	29.6	22.9	22.9	22.9	
Compressor House C301, C302, C 124-Comp House South 2	22.7	16.0	16.0	16.0	
Compressor House C301, C302, C 124-Comp House West	19.4	12.8	12.8	12.8	
xxxx xxxx xxxx xxxx	44.6	37.9	37.9	37.9	
Cooling Tower CT 510-CT 510 East Side	32.0	25.3	25.3	25.3	
Cooling Tower CT 510-CT 510 West Side	17.9	11.3	11.3	11.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower CT 511-CT 511 East Side	35.3	28.7	28.7	28.7	
Cooling Tower CT 511-CT 511 West Side	28.5	21.9	21.9	21.9	
Cooling Tower M 512	21.7	15.1	15.1	15.1	
Cooling Tower M 513	22.0	15.3	15.3	15.3	
Cooling Tower M 514	22.5	15.8	15.8	15.8	
xxxx xxxx xxxx xxxx	46.6	40.3		40.3	
xxxx xxxx xxxx xxxx	24.2	22.7	20.9	15.0	
xxxx xxxx xxxx xxxx	24.4	22.9	21.2	15.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	31.8	25.1	25.1	25.1	
FD Fan Assembly-FD Fan - East	38.9	32.2	32.2	32.2	
FD Fan Assembly-FD Fan - North	35.3	28.6	28.6	28.6	
FD Fan Assembly-FD Fan - Roof	39.3	32.7	32.7	32.7	
FD Fan Assembly-FD Fan - South	35.5	28.9	28.9	28.9	
FD Fan Assembly-FD Fan - West	38.1	31.5	31.5	31.5	
FD Motor	38.1	31.5	31.5	31.5	
Feed Compressor-A Compressor	39.1	32.4	32.4	32.4	
Feed Compressor-A Motor	38.5	31.9	31.9	31.9	
Feed Compressor-B Compressor	37.3	30.7	30.7	30.7	
Feed Compressor -B Motor	34.4	27.8	27.8	27.8	
H2S Compressor 18-C-271	35.4	28.7	28.7	28.7	
Heater # 5-Heater	24.2	17.5	17.5	17.5	
Heater # 5-Heater	26.9	20.3	20.3	20.3	
Heater # 5-Heater	23.9	17.2	17.2	17.2	
Hydro Heater H-402	25.1	18.4	18.4	18.4	
ID Fan-ID Fan - East (128302)	28.3	21.6	21.6	21.6	
ID Fan-ID Fan - East 1 (128306)	30.4	23.7	23.7	23.7	
ID Fan-ID Fan - North	35.7	29.0	29.0	29.0	
ID Fan-ID Fan - North 2	36.4	29.7	29.7	29.7	
ID Fan-ID Fan - South	33.3	26.7	26.7	26.7	
ID Fan-ID Fan - South 2	31.1	24.4	24.4	24.4	
ID Fan-ID Fan Roof 01 (128293)	38.9	32.2	32.2	32.2	
xxxx xxxx xxxx xxxx	38.6	37.1	35.4	29.4	
xxxx xxxx xxxx xxxx	38.7	37.2	35.4	29.5	
Motor & Pump P - 1502 Splitter Reflux Pu	27.0	20.3	20.3	20.3	
Motor & Pump P - 1503 Splitter Bottoms P	26.9	20.2	20.2	20.2	
Motor & Pump P - 1504 Splitter Bottoms P	26.9	20.2	20.2	20.2	
Motor & Pump P - 1507 Reactor Pump	25.8	19.1	19.1	19.1	
Motor & Pump P - 1508 Reactor Pump	26.8	20.1	20.1	20.1	
Motor & Pump P - 1511 Stabilizer Reflux	24.1	17.4	17.4	17.4	
Motor & Pump P - 1512 Stabilizer Reflux	24.0	17.4	17.4	17.4	
Motor & Pump P - 1513 Caustic Circulatin	24.9	18.2	18.2	18.2	
Motor & Pump P - 1514 Caustic Circulatin	23.6	16.9	16.9	16.9	
Motor & Pump P 120/121	25.1	18.4	18.4	18.4	
Motor & Pump P 1505 FRESH FEED PUMPS	23.9	17.2	17.2	17.2	
Motor & Pump P 1506 FRESH FEED PUMPS	25.3	18.6	18.6	18.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1509 Chloride Injection P	21.0	14.4	14.4	14.4	
Motor & Pump P 1510 Chloride Injection P	21.7	15.0	15.0	15.0	
Motor & Pump P 1601 A	25.9	19.3	19.3	19.3	
Motor & Pump P 1601 B	25.9	19.2	19.2	19.2	
Motor & Pump P 1602 A	25.9	19.2	19.2	19.2	
Motor & Pump P 1602 B	26.1	19.4	19.4	19.4	
Motor & Pump P 211/212	21.2	14.5	14.5	14.5	
Motor & Pump P 215/214	20.7	14.0	14.0	14.0	
Motor & Pump P 216	25.9	19.2	19.2	19.2	
Motor & Pump P 217/218	21.1	14.4	14.4	14.4	
Motor & Pump P 300	27.3	20.6	20.6	20.6	
Motor & Pump P 301	32.3	25.7	25.7	25.7	
Motor & Pump P 302	27.4	20.7	20.7	20.7	
Motor & Pump P 303	27.5	20.8	20.8	20.8	
Motor & Pump P 305	27.1	20.5	20.5	20.5	
Motor & Pump P 306	40.4	33.7	33.7	33.7	
Motor & Pump P 307	33.4	26.7	26.7	26.7	
Motor & Pump P 309	24.1	17.4	17.4	17.4	
Motor & Pump P 312	30.3	23.6	23.6	23.6	
Motor & Pump P 313	30.4	23.7	23.7	23.7	
Motor & Pump P 315	33.1	26.4	26.4	26.4	
Motor & Pump P 316	32.8	26.2	26.2	26.2	
Motor & Pump P 317	32.4	25.7	25.7	25.7	
Motor & Pump P 318	29.2	22.5	22.5	22.5	
Motor & Pump P 319	30.1	23.5	23.5	23.5	
Motor & Pump P 327	37.9	31.3	31.3	31.3	
Motor & Pump P 328	36.6	30.0	30.0	30.0	
Motor & Pump P 329	36.6	29.9	29.9	29.9	
Motor & Pump P 451	21.1	14.4	14.4	14.4	
Motor & Pump P 453	21.7	15.0	15.0	15.0	
Motor & Pump P 454	21.2	14.5	14.5	14.5	
Motor & Pump P 457	22.1	15.4	15.4	15.4	
Motor & Pump P 458	21.5	14.8	14.8	14.8	
Motor & Pump P 459	21.2	14.5	14.5	14.5	
Motor & Pump P 56A/B	20.1	13.4	13.4	13.4	
Nitrogen Skid w Compressor 18-PK 1806	33.3	26.6	26.6	26.6	
P-060 A/B	24.0	17.4	17.4	17.4	
P-1101 A	28.0	21.3	21.3	21.3	
P-1103	28.0	21.4	21.4	21.4	
P-1105 A/B/C	28.5	21.8	21.8	21.8	
P-1800	24.0	17.3	17.3	17.3	
P-1801	24.3	17.6	17.6	17.6	
P-1802	24.4	17.7	17.7	17.7	
P-1803	35.8	29.1	29.1	29.1	
P-1804	28.6	21.9	21.9	21.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1805	28.8	22.2	22.2	22.2	
P-1806	33.0	26.4	26.4	26.4	
P-1809 A	26.3	19.6	19.6	19.6	
P-1810 A/B/C	30.0	23.3	23.3	23.3	
P-1811 A/B	29.6	23.0	23.0	23.0	
P-1811 A/B	25.2	18.5	18.5	18.5	
P-1847 A/B	33.0	26.3	26.3	26.3	
P-1849 A/B	33.0	26.3	26.3	26.3	
P-1853	34.1	27.5	27.5	27.5	
P-2 A/B	28.7	22.0	22.0	22.0	
P-251 A/B	29.7	23.1	23.1	23.1	
P-252 A/B	30.1	23.5	23.5	23.5	
P-253	31.9	25.2	25.2	25.2	
P-254 A/B	32.4	25.7	25.7	25.7	
P-255 A/B	32.2	25.5	25.5	25.5	
P-255 A/B	31.6	25.0	25.0	25.0	
P-256 A/B	32.0	25.3	25.3	25.3	
P-259 A/B	28.9	22.3	22.3	22.3	
P-260	32.3	25.6	25.6	25.6	
P-261 A/B	31.1	24.4	24.4	24.4	
P-262 A/B	32.1	25.4	25.4	25.4	
P-263 A/B	32.4	25.8	25.8	25.8	
P-270 A/B	44.0	37.4	37.4	37.4	
P-271 A/B	28.7	22.1	22.1	22.1	
P-272 A/B	33.1	26.4	26.4	26.4	
P-273 A/B	44.0	37.3	37.3	37.3	
P-275 A/B/C	29.4	22.8	22.8	22.8	
P-305	41.9	35.2	35.2	35.2	
P-306	44.8	38.1	38.1	38.1	
P-309	37.9	31.2	31.2	31.2	
P-328	44.0	37.4	37.4	37.4	
P-329	48.1	41.4	41.4	41.4	
P-353	36.8	30.1	30.1	30.1	
P-358 A/B	39.3	32.6	32.6	32.6	
P-359 A/B	39.1	32.4	32.4	32.4	
P-360 A/B	38.8	32.1	32.1	32.1	
P-361A	28.4	21.7	21.7	21.7	
P-371 A/B	26.4	19.7	19.7	19.7	
P-373 A/B	39.1	32.5	32.5	32.5	
P-374 A/B	26.4	19.7	19.7	19.7	
P-375 A/B	33.7	27.1	27.1	27.1	
P-376	26.9	20.3	20.3	20.3	
P-376 A/B	39.7	33.0	33.0	33.0	
P-377	26.9	20.2	20.2	20.2	
P-50 A/B	28.4	21.7	21.7	21.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-51 A/B	28.4	21.7	21.7	21.7	
P-63	28.5	21.8	21.8	21.8	
P-70 A/B	27.6	20.9	20.9	20.9	
P-73 A/B	28.4	21.8	21.8	21.8	
Piping Furnace Tanks	28.6	22.0	22.0	22.0	
Piping Hydrogen Tanks Compressor	40.0	33.3	33.3	33.3	
Piping Hydrogen Tanks Compressor w NC	43.8	37.1	37.1	37.1	
Piping Hydrogen Tanks Compressorw NC	45.5	38.8	38.8	38.8	
Pre-Treat Train-Pre-Treat Outside Area E	36.4	29.7	29.7	29.7	
Pre-Treat Train-Pre-Treat Outside Area N	47.2	40.5	40.5	40.5	
Pre-Treat Train-Pre-Treat Outside Area N2	42.8	36.1	36.1	36.1	
Pre-Treat Train-Pre-Treat Outside Area S	38.4	31.7	31.7	31.7	
Pre-Treat Train-Pre-Treat Outside Area S2	32.6	25.9	25.9	25.9	
Pre-Treat Train-Pre-Treat Outside Area W1	44.2	37.5	37.5	37.5	
Pre-Treat Train-Pre-Treat Outside Area W2	46.3	39.7	39.7	39.7	
Pre-Treat Train-Pre-Treat Outside Area W3	37.1	30.5	30.5	30.5	
Pre-Treat Train-Roof 01	53.1	46.4	46.4	46.4	
PSA Pipe 3" Lagging	31.3	24.7	24.7	24.7	
PSA Skid Additional Piping w NC	43.2	36.5	36.5	36.5	
Reformer-Burner Reformer East	48.2	41.6	41.6	41.6	
Reformer-Burner Reformer North	32.4	25.7	25.7	25.7	
Reformer-Burner Reformer South	40.5	33.9	33.9	33.9	
Reformer-Burner Reformer West	29.7	23.0	23.0	23.0	
xxxx xxxx xxxx xxxx	25.0	18.7		18.7	
xxxx xxxx xxxx xxxx	21.1	14.8		14.8	
RFG A from battery to process	40.5	33.9	33.9	33.9	
RFG A from battery to process w NC	42.6	35.9	35.9	35.9	
xxxx xxxx xxxx xxxx	24.8	23.3	21.6	15.7	
xxxx xxxx xxxx xxxx	25.2	23.7	22.0	16.1	
Stack Noise	51.7	45.0	45.0	45.0	
Steam Turbine-Facade 01	23.2	16.5	16.5	16.5	
Steam Turbine-Facade 02	21.4	14.8	14.8	14.8	
Steam Turbine-Facade 03	24.6	17.9	17.9	17.9	
Steam Turbine-Facade 04	20.5	13.9	13.9	13.9	
Steam Turbine-Roof 01	25.8	19.1	19.1	19.1	
Tank Farm Pump 1	36.4	29.7	29.7	29.7	
Tank Farm Pump 2	29.9	23.3	23.3	23.3	
Tank Farm Pump 3	33.2	26.6	26.6	26.6	
UP Train Locomotive Delivery and Pickup 2022 2x	23.9	27.0			
XF-1502 Splitter Area 1	33.5	26.9	26.9	26.9	
XF-1502 Splitter Area 2	33.4	26.7	26.7	26.7	
XF-1504 Splitter Area 1	33.4	26.7	26.7	26.7	
XF-1504 Splitter Area 2	33.4	26.7	26.7	26.7	
XF - 1601	37.0	30.3	30.3	30.3	
XF - 1602	37.2	30.5	30.5	30.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 251, 250, 271, 270	37.4	30.7	30.7	30.7	
XF 260, 261A, 261 B	33.1	26.5	26.5	26.5	
XF 304, XF 321	42.8	36.1	36.1	36.1	
XF 313, XF 314	41.4	34.7	34.7	34.7	
XF 335-1, XF 335-2	44.0	37.3	37.3	37.3	
XF 353A/B	31.2	24.6	24.6	24.6	
XF 353A/B	38.3	31.6	31.6	31.6	
XF 354A/B	38.9	32.2	32.2	32.2	
XF 503	40.6	33.9	33.9	33.9	
XF Module 1510	36.5	29.8	29.8	29.8	
XF Module 1519	37.4	30.7	30.7	30.7	
Receiver CA-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 55.2 dB(A)	Ld 7-19 dB(A)	Leq,N 55.1 dB(A)	Le 19-2
ID Fan Motor	39.0	32.3	32.3	32.3	
18-1855 A/B	30.6	23.9	23.9	23.9	
18-1856 A/B	30.2	23.5	23.5	23.5	
18-1857 A/B	30.5	23.8	23.8	23.8	
18-1858 A/B	30.5	23.8	23.8	23.8	
18-PK 1802 Air Compressor Package	40.5	33.8	33.8	33.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	31.2	32.6	30.2		
Air Compressor C 1	40.8	34.1	34.1	34.1	
Air Compressor Pump	26.4	19.7	19.7	19.7	
Blower F 401	45.9	39.2	39.2	39.2	
Boiler Crude Unit-Heater Opening	33.8	27.1	27.1	27.1	
Boiler Feed Water Pump A	32.4	25.7	25.7	25.7	
Boiler Feed Water Pump B	31.9	25.2	25.2	25.2	
C-270 A	39.5	32.8	32.8	32.8	
C-270 B	39.1	32.5	32.5	32.5	
C-270 C	40.5	33.8	33.8	33.8	
C-301 Compressor	41.5	34.8	34.8	34.8	
C-301 Motor	38.8	32.1	32.1	32.1	
C-351 Compressor	38.4	31.7	31.7	31.7	
C-351 Motor	39.3	32.7	32.7	32.7	
C370 A Motor	34.7	28.1	28.1	28.1	
C370 B Motor	38.4	31.8	31.8	31.8	
C370A	36.4	29.7	29.7	29.7	
C370B	33.5	26.8	26.8	26.8	
Cars Pumping 6 times in during delivery	27.8	30.8			
Compressor House C301, C302, C 124-Comp House East 1	34.9	28.2	28.2	28.2	
Compressor House C301, C302, C 124-Comp House East 2	31.4	24.7	24.7	24.7	
Compressor House C301, C302, C 124-Comp House North	44.7	38.0	38.0	38.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	29.6	23.0	23.0	23.0	
Compressor House C301, C302, C 124-Comp House South 2	22.8	16.2	16.2	16.2	
Compressor House C301, C302, C 124-Comp House West	18.9	12.2	12.2	12.2	
xxxx xxxx xxxx xxxx	45.1	38.4	38.4	38.4	
Cooling Tower CT 510-CT 510 East Side	31.6	25.0	25.0	25.0	
Cooling Tower CT 510-CT 510 West Side	17.6	10.9	10.9	10.9	
Cooling Tower CT 511-CT 511 East Side	32.9	26.2	26.2	26.2	
Cooling Tower CT 511-CT 511 West Side	29.3	22.6	22.6	22.6	
Cooling Tower M 512	21.5	14.8	14.8	14.8	
Cooling Tower M 513	21.6	14.9	14.9	14.9	
Cooling Tower M 514	22.2	15.5	15.5	15.5	
xxxx xxxx xxxx xxxx	46.1	39.8		39.8	
xxxx xxxx xxxx xxxx	33.5	32.0	30.3	24.4	
xxxx xxxx xxxx xxxx	34.0	32.5	30.8	24.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	36.7	30.1	30.1	30.1	
FD Fan Assembly-FD Fan - East	38.2	31.5	31.5	31.5	
FD Fan Assembly-FD Fan - North	34.2	27.5	27.5	27.5	
FD Fan Assembly-FD Fan - Roof	38.8	32.1	32.1	32.1	
FD Fan Assembly-FD Fan - South	34.3	27.6	27.6	27.6	
FD Fan Assembly-FD Fan - West	35.7	29.1	29.1	29.1	
FD Motor	38.5	31.9	31.9	31.9	
Feed Compressor-A Compressor	39.0	32.3	32.3	32.3	
Feed Compressor-A Motor	36.6	30.0	30.0	30.0	
Feed Compressor-B Compressor	38.9	32.2	32.2	32.2	
Feed Compressor -B Motor	34.9	28.2	28.2	28.2	
H2S Compressor 18-C-271	40.3	33.6	33.6	33.6	
Heater # 5-Heater	25.4	18.8	18.8	18.8	
Heater # 5-Heater	22.9	16.3	16.3	16.3	
Heater # 5-Heater	24.5	17.9	17.9	17.9	
Hydro Heater H-402	25.1	18.5	18.5	18.5	
ID Fan-ID Fan - East (128302)	29.3	22.6	22.6	22.6	
ID Fan-ID Fan - East 1 (128306)	31.7	25.1	25.1	25.1	
ID Fan-ID Fan - North	36.6	29.9	29.9	29.9	
ID Fan-ID Fan - North 2	38.3	31.6	31.6	31.6	
ID Fan-ID Fan - South	34.1	27.4	27.4	27.4	
ID Fan-ID Fan - South 2	31.7	25.0	25.0	25.0	
ID Fan-ID Fan Roof 01 (128293)	40.6	33.9	33.9	33.9	
xxxx xxxx xxxx xxxx	38.4	36.9	35.2	29.3	
xxxx xxxx xxxx xxxx	38.5	37.0	35.3	29.4	
Motor & Pump P - 1502 Splitter Reflux Pu	27.7	21.1	21.1	21.1	
Motor & Pump P - 1503 Splitter Bottoms P	26.4	19.7	19.7	19.7	
Motor & Pump P - 1504 Splitter Bottoms P	26.4	19.7	19.7	19.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P - 1507 Reactor Pump	26.1	19.5	19.5	19.5	
Motor & Pump P - 1508 Reactor Pump	27.4	20.8	20.8	20.8	
Motor & Pump P - 1511 Stabilizer Reflux	23.4	16.7	16.7	16.7	
Motor & Pump P - 1512 Stabilizer Reflux	23.6	17.0	17.0	17.0	
Motor & Pump P - 1513 Caustic Circulatin	23.2	16.6	16.6	16.6	
Motor & Pump P - 1514 Caustic Circulatin	23.6	16.9	16.9	16.9	
Motor & Pump P 120/121	25.3	18.6	18.6	18.6	
Motor & Pump P 1505 FRESH FEED PUMPS	23.7	17.1	17.1	17.1	
Motor & Pump P 1506 FRESH FEED PUMPS	25.3	18.6	18.6	18.6	
Motor & Pump P 1509 Chloride Injection P	20.9	14.2	14.2	14.2	
Motor & Pump P 1510 Chloride Injection P	22.7	16.1	16.1	16.1	
Motor & Pump P 1601 A	26.3	19.6	19.6	19.6	
Motor & Pump P 1601 B	26.3	19.6	19.6	19.6	
Motor & Pump P 1602 A	26.3	19.7	19.7	19.7	
Motor & Pump P 1602 B	26.5	19.9	19.9	19.9	
Motor & Pump P 211/212	23.6	16.9	16.9	16.9	
Motor & Pump P 215/214	22.4	15.8	15.8	15.8	
Motor & Pump P 216	28.4	21.8	21.8	21.8	
Motor & Pump P 217/218	23.0	16.3	16.3	16.3	
Motor & Pump P 300	26.5	19.8	19.8	19.8	
Motor & Pump P 301	31.3	24.7	24.7	24.7	
Motor & Pump P 302	24.7	18.0	18.0	18.0	
Motor & Pump P 303	27.1	20.5	20.5	20.5	
Motor & Pump P 305	27.4	20.7	20.7	20.7	
Motor & Pump P 306	39.8	33.1	33.1	33.1	
Motor & Pump P 307	33.8	27.1	27.1	27.1	
Motor & Pump P 309	23.6	16.9	16.9	16.9	
Motor & Pump P 312	31.7	25.0	25.0	25.0	
Motor & Pump P 313	33.2	26.5	26.5	26.5	
Motor & Pump P 315	32.8	26.1	26.1	26.1	
Motor & Pump P 316	32.6	25.9	25.9	25.9	
Motor & Pump P 317	32.0	25.3	25.3	25.3	
Motor & Pump P 318	28.5	21.9	21.9	21.9	
Motor & Pump P 319	28.9	22.2	22.2	22.2	
Motor & Pump P 327	37.2	30.5	30.5	30.5	
Motor & Pump P 328	36.5	29.8	29.8	29.8	
Motor & Pump P 329	36.4	29.7	29.7	29.7	
Motor & Pump P 451	21.6	15.0	15.0	15.0	
Motor & Pump P 453	22.5	15.8	15.8	15.8	
Motor & Pump P 454	21.6	14.9	14.9	14.9	
Motor & Pump P 457	22.1	15.5	15.5	15.5	
Motor & Pump P 458	21.1	14.5	14.5	14.5	
Motor & Pump P 459	21.2	14.5	14.5	14.5	
Motor & Pump P 56A/B	19.7	13.1	13.1	13.1	
Nitrogen Skid w Compressor 18-PK 1806	33.4	26.7	26.7	26.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-060 A/B	28.2	21.5	21.5	21.5	
P-1101 A	30.6	23.9	23.9	23.9	
P-1103	31.9	25.3	25.3	25.3	
P-1105 A/B/C	30.6	24.0	24.0	24.0	
P-1800	27.1	20.4	20.4	20.4	
P-1801	26.5	19.9	19.9	19.9	
P-1802	26.6	20.0	20.0	20.0	
P-1803	47.5	40.9	40.9	40.9	
P-1804	30.1	23.4	23.4	23.4	
P-1805	29.2	22.6	22.6	22.6	
P-1806	47.6	41.0	41.0	41.0	
P-1809 A	31.9	25.3	25.3	25.3	
P-1810 A/B/C	29.2	22.5	22.5	22.5	
P-1811 A/B	35.3	28.7	28.7	28.7	
P-1811 A/B	27.4	20.7	20.7	20.7	
P-1847 A/B	50.4	43.8	43.8	43.8	
P-1849 A/B	37.9	31.2	31.2	31.2	
P-1853	33.3	26.7	26.7	26.7	
P-2 A/B	30.9	24.3	24.3	24.3	
P-251 A/B	30.1	23.4	23.4	23.4	
P-252 A/B	30.9	24.2	24.2	24.2	
P-253	32.5	25.8	25.8	25.8	
P-254 A/B	31.5	24.9	24.9	24.9	
P-255 A/B	32.0	25.3	25.3	25.3	
P-255 A/B	30.7	24.0	24.0	24.0	
P-256 A/B	29.8	23.1	23.1	23.1	
P-259 A/B	31.0	24.4	24.4	24.4	
P-260	30.5	23.8	23.8	23.8	
P-261 A/B	36.2	29.6	29.6	29.6	
P-262 A/B	30.5	23.8	23.8	23.8	
P-263 A/B	30.7	24.0	24.0	24.0	
P-270 A/B	30.2	23.6	23.6	23.6	
P-271 A/B	28.1	21.4	21.4	21.4	
P-272 A/B	32.6	25.9	25.9	25.9	
P-273 A/B	29.6	23.0	23.0	23.0	
P-275 A/B/C	28.6	21.9	21.9	21.9	
P-305	28.4	21.7	21.7	21.7	
P-306	37.2	30.5	30.5	30.5	
P-309	28.9	22.3	22.3	22.3	
P-328	40.1	33.4	33.4	33.4	
P-329	39.1	32.4	32.4	32.4	
P-353	27.5	20.9	20.9	20.9	
P-358 A/B	41.7	35.0	35.0	35.0	
P-359 A/B	41.7	35.1	35.1	35.1	
P-360 A/B	41.9	35.2	35.2	35.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-361A	34.5	27.9	27.9	27.9	
P-371 A/B	28.5	21.8	21.8	21.8	
P-373 A/B	30.2	23.5	23.5	23.5	
P-374 A/B	30.0	23.3	23.3	23.3	
P-375 A/B	27.8	21.1	21.1	21.1	
P-376	27.5	20.8	20.8	20.8	
P-376 A/B	32.1	25.4	25.4	25.4	
P-377	27.3	20.6	20.6	20.6	
P-50 A/B	36.1	29.4	29.4	29.4	
P-51 A/B	36.3	29.7	29.7	29.7	
P-63	38.4	31.7	31.7	31.7	
P-70 A/B	35.9	29.3	29.3	29.3	
P-73 A/B	32.3	25.6	25.6	25.6	
Piping Furnace Tanks	14.9	8.2	8.2	8.2	
Piping Hydrogen Tanks Compressor	27.6	21.0	21.0	21.0	
Piping Hydrogen Tanks Compressor w NC	40.2	33.6	33.6	33.6	
Piping Hydrogen Tanks Compressorw NC	40.4	33.7	33.7	33.7	
Pre-Treat Train-Pre-Treat Outside Area E	39.0	32.4	32.4	32.4	
Pre-Treat Train-Pre-Treat Outside Area N	47.7	41.1	41.1	41.1	
Pre-Treat Train-Pre-Treat Outside Area N2	37.1	30.4	30.4	30.4	
Pre-Treat Train-Pre-Treat Outside Area S	39.3	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area S2	34.4	27.7	27.7	27.7	
Pre-Treat Train-Pre-Treat Outside Area W1	39.1	32.4	32.4	32.4	
Pre-Treat Train-Pre-Treat Outside Area W2	40.0	33.3	33.3	33.3	
Pre-Treat Train-Pre-Treat Outside Area W3	35.4	28.7	28.7	28.7	
Pre-Treat Train-Roof 01	49.1	42.4	42.4	42.4	
PSA Pipe 3" Lagging	23.9	17.2	17.2	17.2	
PSA Skid Additional Piping w NC	41.7	35.0	35.0	35.0	
Reformer-Burner Reformer East	41.1	34.5	34.5	34.5	
Reformer-Burner Reformer North	25.0	18.4	18.4	18.4	
Reformer-Burner Reformer South	34.8	28.2	28.2	28.2	
Reformer-Burner Reformer West	29.0	22.3	22.3	22.3	
xxxx xxxx xxxx xxxx	27.2	20.9		20.9	
xxxx xxxx xxxx xxxx	23.1	16.8		16.8	
RFG A from battery to process	30.9	24.2	24.2	24.2	
RFG A from battery to process w NC	37.9	31.2	31.2	31.2	
xxxx xxxx xxxx xxxx	25.4	23.9	22.2	16.2	
xxxx xxxx xxxx xxxx	25.7	24.2	22.5	16.6	
Stack Noise	52.1	45.5	45.5	45.5	
Steam Turbine-Facade 01	22.9	16.3	16.3	16.3	
Steam Turbine-Facade 02	20.2	13.6	13.6	13.6	
Steam Turbine-Facade 03	22.9	16.3	16.3	16.3	
Steam Turbine-Facade 04	19.3	12.7	12.7	12.7	
Steam Turbine-Roof 01	22.9	16.3	16.3	16.3	
Tank Farm Pump 1	51.4	44.8	44.8	44.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Tank Farm Pump 2	34.7	28.0	28.0	28.0	
Tank Farm Pump 3	34.5	27.9	27.9	27.9	
UP Train Locomotive Delivery and Pickup 2022 2x	25.5	28.5			
XF-1502 Splitter Area 1	33.8	27.2	27.2	27.2	
XF-1502 Splitter Area 2	34.0	27.3	27.3	27.3	
XF-1504 Splitter Area 1	33.9	27.2	27.2	27.2	
XF-1504 Splitter Area 2	35.7	29.0	29.0	29.0	
XF - 1601	37.4	30.7	30.7	30.7	
XF - 1602	37.6	31.0	31.0	31.0	
XF 251, 250, 271, 270	36.1	29.4	29.4	29.4	
XF 260, 261A, 261 B	36.9	30.2	30.2	30.2	
XF 304, XF 321	42.4	35.7	35.7	35.7	
XF 313, XF 314	41.5	34.8	34.8	34.8	
XF 335-1, XF 335-2	44.2	37.5	37.5	37.5	
XF 353A/B	39.7	33.0	33.0	33.0	
XF 353A/B	34.7	28.0	28.0	28.0	
XF 354A/B	30.6	24.0	24.0	24.0	
XF 503	41.7	35.0	35.0	35.0	
XF Module 1510	37.2	30.5	30.5	30.5	
XF Module 1519	37.6	31.0	31.0	31.0	
Receiver HWES Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.5 dB(A) Ld 7-19 dB(A) Leq,N 58.6 dB(A) Le 19					
ID Fan Motor	31.5	24.8	24.8	24.8	
18-1855 A/B	25.0	18.3	18.3	18.3	
18-1856 A/B	24.2	17.5	17.5	17.5	
18-1857 A/B	27.8	21.2	21.2	21.2	
18-1858 A/B	27.8	21.1	21.1	21.1	
18-PK 1802 Air Compressor Package	33.7	27.1	27.1	27.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	36.6	38.0	35.6		
Air Compressor C 1	51.7	45.0	45.0	45.0	
Air Compressor Pump	27.3	20.7	20.7	20.7	
Blower F 401	51.8	45.1	45.1	45.1	
Boiler Crude Unit-Heater Opening	26.3	19.7	19.7	19.7	
Boiler Feed Water Pump A	27.3	20.6	20.6	20.6	
Boiler Feed Water Pump B	27.4	20.7	20.7	20.7	
C-270 A	41.1	34.4	34.4	34.4	
C-270 B	43.0	36.4	36.4	36.4	
C-270 C	43.6	37.0	37.0	37.0	
C-301 Compressor	38.1	31.5	31.5	31.5	
C-301 Motor	37.6	30.9	30.9	30.9	
C-351 Compressor	35.6	28.9	28.9	28.9	
C-351 Motor	38.9	32.2	32.2	32.2	
C370 A Motor	45.5	38.8	38.8	38.8	
C370 B Motor	44.5	37.9	37.9	37.9	
C370A	45.0	38.3	38.3	38.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C370B	38.8	32.1	32.1	32.1	
Cars Pumping 6 times in during delivery	34.1	37.1			
Compressor House C301, C302, C 124-Comp House East 1	28.8	22.2	22.2	22.2	
Compressor House C301, C302, C 124-Comp House East 2	29.1	22.4	22.4	22.4	
Compressor House C301, C302, C 124-Comp House North	48.3	41.6	41.6	41.6	
Compressor House C301, C302, C 124-Comp House South 1	32.9	26.2	26.2	26.2	
Compressor House C301, C302, C 124-Comp House South 2	22.9	16.3	16.3	16.3	
Compressor House C301, C302, C 124-Comp House West	43.7	37.0	37.0	37.0	
xxxx xxxx xxxx xxxx	34.4	27.7	27.7	27.7	
Cooling Tower CT 510-CT 510 East Side	24.7	18.1	18.1	18.1	
Cooling Tower CT 510-CT 510 West Side	39.7	33.0	33.0	33.0	
Cooling Tower CT 511-CT 511 East Side	41.7	35.0	35.0	35.0	
Cooling Tower CT 511-CT 511 West Side	44.3	37.6	37.6	37.6	
Cooling Tower M 512	21.9	15.2	15.2	15.2	
Cooling Tower M 513	21.9	15.2	15.2	15.2	
Cooling Tower M 514	22.2	15.5	15.5	15.5	
xxxx xxxx xxxx xxxx	35.9	29.7		29.7	
xxxx xxxx xxxx xxxx	51.8	50.3	48.6	42.7	
xxxx xxxx xxxx xxxx	51.2	49.7	48.0	42.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	27.0	20.4	20.4	20.4	
FD Fan Assembly-FD Fan - East	30.7	24.1	24.1	24.1	
FD Fan Assembly-FD Fan - North	32.0	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - Roof	34.8	28.1	28.1	28.1	
FD Fan Assembly-FD Fan - South	29.3	22.7	22.7	22.7	
FD Fan Assembly-FD Fan - West	38.5	31.8	31.8	31.8	
FD Motor	26.1	19.4	19.4	19.4	
Feed Compressor-A Compressor	39.2	32.6	32.6	32.6	
Feed Compressor-A Motor	37.4	30.8	30.8	30.8	
Feed Compressor-B Compressor	37.2	30.5	30.5	30.5	
Feed Compressor -B Motor	38.0	31.3	31.3	31.3	
H2S Compressor 18-C-271	36.9	30.2	30.2	30.2	
Heater # 5-Heater	17.3	10.7	10.7	10.7	
Heater # 5-Heater	18.8	12.1	12.1	12.1	
Heater # 5-Heater	21.4	14.7	14.7	14.7	
Hydro Heater H-402	37.4	30.7	30.7	30.7	
ID Fan-ID Fan - East (128302)	21.7	15.0	15.0	15.0	
ID Fan-ID Fan - East 1 (128306)	22.5	15.8	15.8	15.8	
ID Fan-ID Fan - North	32.3	25.6	25.6	25.6	
ID Fan-ID Fan - North 2	31.0	24.3	24.3	24.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan-ID Fan - South	26.8	20.1	20.1	20.1	
ID Fan-ID Fan - South 2	26.7	20.0	20.0	20.0	
ID Fan-ID Fan Roof 01 (128293)	34.7	28.0	28.0	28.0	
xxxx xxxx xxxx xxxx	29.5	28.0	26.3	20.4	
xxxx xxxx xxxx xxxx	29.7	28.2	26.5	20.6	
Motor & Pump P - 1502 Splitter Reflux Pu	32.1	25.5	25.5	25.5	
Motor & Pump P - 1503 Splitter Bottoms P	36.7	30.0	30.0	30.0	
Motor & Pump P - 1504 Splitter Bottoms P	35.1	28.4	28.4	28.4	
Motor & Pump P - 1507 Reactor Pump	29.8	23.2	23.2	23.2	
Motor & Pump P - 1508 Reactor Pump	31.6	25.0	25.0	25.0	
Motor & Pump P - 1511 Stabilizer Reflux	42.9	36.2	36.2	36.2	
Motor & Pump P - 1512 Stabilizer Reflux	41.9	35.3	35.3	35.3	
Motor & Pump P - 1513 Caustic Circulatin	39.5	32.8	32.8	32.8	
Motor & Pump P - 1514 Caustic Circulatin	41.2	34.5	34.5	34.5	
Motor & Pump P 120/121	36.7	30.1	30.1	30.1	
Motor & Pump P 1505 FRESH FEED PUMPS	29.5	22.9	22.9	22.9	
Motor & Pump P 1506 FRESH FEED PUMPS	29.7	23.0	23.0	23.0	
Motor & Pump P 1509 Chloride Injection P	41.2	34.6	34.6	34.6	
Motor & Pump P 1510 Chloride Injection P	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 A	40.7	34.1	34.1	34.1	
Motor & Pump P 1601 B	41.3	34.6	34.6	34.6	
Motor & Pump P 1602 A	40.8	34.1	34.1	34.1	
Motor & Pump P 1602 B	39.9	33.2	33.2	33.2	
Motor & Pump P 211/212	32.6	26.0	26.0	26.0	
Motor & Pump P 215/214	24.8	18.1	18.1	18.1	
Motor & Pump P 216	25.2	18.6	18.6	18.6	
Motor & Pump P 217/218	25.1	18.5	18.5	18.5	
Motor & Pump P 300	38.2	31.5	31.5	31.5	
Motor & Pump P 301	43.3	36.6	36.6	36.6	
Motor & Pump P 302	38.1	31.5	31.5	31.5	
Motor & Pump P 303	38.3	31.6	31.6	31.6	
Motor & Pump P 305	38.5	31.9	31.9	31.9	
Motor & Pump P 306	49.9	43.2	43.2	43.2	
Motor & Pump P 307	43.5	36.8	36.8	36.8	
Motor & Pump P 309	38.4	31.7	31.7	31.7	
Motor & Pump P 312	34.3	27.6	27.6	27.6	
Motor & Pump P 313	34.3	27.7	27.7	27.7	
Motor & Pump P 315	35.9	29.2	29.2	29.2	
Motor & Pump P 316	39.6	33.0	33.0	33.0	
Motor & Pump P 317	41.2	34.5	34.5	34.5	
Motor & Pump P 318	33.7	27.0	27.0	27.0	
Motor & Pump P 319	33.3	26.6	26.6	26.6	
Motor & Pump P 327	48.6	41.9	41.9	41.9	
Motor & Pump P 328	50.9	44.2	44.2	44.2	
Motor & Pump P 329	49.5	42.8	42.8	42.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 451	28.0	21.3	21.3	21.3	
Motor & Pump P 453	25.2	18.5	18.5	18.5	
Motor & Pump P 454	27.9	21.2	21.2	21.2	
Motor & Pump P 457	25.6	18.9	18.9	18.9	
Motor & Pump P 458	28.8	22.1	22.1	22.1	
Motor & Pump P 459	27.8	21.1	21.1	21.1	
Motor & Pump P 56A/B	25.5	18.8	18.8	18.8	
Nitrogen Skid w Compressor 18-PK 1806	54.6	48.0	48.0	48.0	
P-060 A/B	24.9	18.2	18.2	18.2	
P-1101 A	21.1	14.4	14.4	14.4	
P-1103	21.3	14.7	14.7	14.7	
P-1105 A/B/C	22.0	15.3	15.3	15.3	
P-1800	21.7	15.0	15.0	15.0	
P-1801	17.2	10.5	10.5	10.5	
P-1802	14.9	8.2	8.2	8.2	
P-1803	17.8	11.1	11.1	11.1	
P-1804	20.7	14.1	14.1	14.1	
P-1805	20.0	13.4	13.4	13.4	
P-1806	24.9	18.3	18.3	18.3	
P-1809 A	26.9	20.2	20.2	20.2	
P-1810 A/B/C	17.0	10.3	10.3	10.3	
P-1811 A/B	25.0	18.3	18.3	18.3	
P-1811 A/B	20.6	13.9	13.9	13.9	
P-1847 A/B	26.5	19.8	19.8	19.8	
P-1849 A/B	26.6	19.9	19.9	19.9	
P-1853	37.0	30.4	30.4	30.4	
P-2 A/B	26.6	19.9	19.9	19.9	
P-251 A/B	32.9	26.2	26.2	26.2	
P-252 A/B	37.6	30.9	30.9	30.9	
P-253	36.3	29.6	29.6	29.6	
P-254 A/B	37.5	30.8	30.8	30.8	
P-255 A/B	37.6	30.9	30.9	30.9	
P-255 A/B	33.6	27.0	27.0	27.0	
P-256 A/B	33.7	27.0	27.0	27.0	
P-259 A/B	33.1	26.4	26.4	26.4	
P-260	32.8	26.1	26.1	26.1	
P-261 A/B	30.5	23.8	23.8	23.8	
P-262 A/B	32.5	25.8	25.8	25.8	
P-263 A/B	32.4	25.7	25.7	25.7	
P-270 A/B	31.5	24.8	24.8	24.8	
P-271 A/B	35.6	28.9	28.9	28.9	
P-272 A/B	35.4	28.7	28.7	28.7	
P-273 A/B	31.7	25.0	25.0	25.0	
P-275 A/B/C	34.6	27.9	27.9	27.9	
P-305	36.2	29.5	29.5	29.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-306	31.7	25.1	25.1	25.1	
P-309	36.2	29.5	29.5	29.5	
P-328	31.7	25.0	25.0	25.0	
P-329	31.6	25.0	25.0	25.0	
P-353	29.3	22.6	22.6	22.6	
P-358 A/B	24.6	18.0	18.0	18.0	
P-359 A/B	24.1	17.4	17.4	17.4	
P-360 A/B	23.0	16.3	16.3	16.3	
P-361A	24.6	17.9	17.9	17.9	
P-371 A/B	29.3	22.6	22.6	22.6	
P-373 A/B	41.2	34.6	34.6	34.6	
P-374 A/B	41.2	34.6	34.6	34.6	
P-375 A/B	33.8	27.1	27.1	27.1	
P-376	41.3	34.6	34.6	34.6	
P-376 A/B	43.4	36.7	36.7	36.7	
P-377	38.5	31.9	31.9	31.9	
P-50 A/B	16.2	9.5	9.5	9.5	
P-51 A/B	16.3	9.6	9.6	9.6	
P-63	18.7	12.0	12.0	12.0	
P-70 A/B	16.5	9.8	9.8	9.8	
P-73 A/B	16.8	10.2	10.2	10.2	
Piping Furnace Tanks	11.9	5.3	5.3	5.3	
Piping Hydrogen Tanks Compressor	25.5	18.8	18.8	18.8	
Piping Hydrogen Tanks Compressor w NC	42.9	36.2	36.2	36.2	
Piping Hydrogen Tanks Compressorw NC	39.4	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area E	29.8	23.1	23.1	23.1	
Pre-Treat Train-Pre-Treat Outside Area N	45.7	39.0	39.0	39.0	
Pre-Treat Train-Pre-Treat Outside Area N2	37.1	30.4	30.4	30.4	
Pre-Treat Train-Pre-Treat Outside Area S	32.5	25.9	25.9	25.9	
Pre-Treat Train-Pre-Treat Outside Area S2	25.5	18.9	18.9	18.9	
Pre-Treat Train-Pre-Treat Outside Area W1	36.4	29.8	29.8	29.8	
Pre-Treat Train-Pre-Treat Outside Area W2	41.4	34.7	34.7	34.7	
Pre-Treat Train-Pre-Treat Outside Area W3	34.5	27.8	27.8	27.8	
Pre-Treat Train-Roof 01	48.1	41.5	41.5	41.5	
PSA Pipe 3" Lagging	15.7	9.0	9.0	9.0	
PSA Skid Additional Piping w NC	45.5	38.8	38.8	38.8	
Reformer-Burner Reformer East	37.4	30.7	30.7	30.7	
Reformer-Burner Reformer North	35.5	28.9	28.9	28.9	
Reformer-Burner Reformer South	23.9	17.2	17.2	17.2	
Reformer-Burner Reformer West	24.6	17.9	17.9	17.9	
xxxx xxxx xxxx xxxx	12.4	6.1		6.1	
xxxx xxxx xxxx xxxx	18.7	12.4		12.4	
RFG A from battery to process	25.1	18.4	18.4	18.4	
RFG A from battery to process w NC	36.8	30.1	30.1	30.1	
xxxx xxxx xxxx xxxx	24.7	23.2	21.5	15.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
xxxx xxxx xxxx xxxx	24.9	23.4	21.6	15.7	
Stack Noise	43.5	36.8	36.8	36.8	
Steam Turbine-Facade 01	22.9	16.2	16.2	16.2	
Steam Turbine-Facade 02	17.7	11.1	11.1	11.1	
Steam Turbine-Facade 03	23.3	16.7	16.7	16.7	
Steam Turbine-Facade 04	24.1	17.4	17.4	17.4	
Steam Turbine-Roof 01	26.7	20.1	20.1	20.1	
Tank Farm Pump 1	24.4	17.7	17.7	17.7	
Tank Farm Pump 2	25.3	18.6	18.6	18.6	
Tank Farm Pump 3	25.7	19.1	19.1	19.1	
UP Train Locomotive Delivery and Pickup 2022 2x	34.0	37.0			
XF-1502 Splitter Area 1	46.0	39.3	39.3	39.3	
XF-1502 Splitter Area 2	45.9	39.2	39.2	39.2	
XF-1504 Splitter Area 1	42.5	35.8	35.8	35.8	
XF-1504 Splitter Area 2	42.3	35.6	35.6	35.6	
XF - 1601	40.5	33.8	33.8	33.8	
XF - 1602	40.4	33.7	33.7	33.7	
XF 251, 250, 271, 270	41.8	35.1	35.1	35.1	
XF 260, 261A, 261 B	38.8	32.1	32.1	32.1	
XF 304, XF 321	53.2	46.5	46.5	46.5	
XF 313, XF 314	51.9	45.3	45.3	45.3	
XF 335-1, XF 335-2	56.0	49.3	49.3	49.3	
XF 353A/B	30.1	23.5	23.5	23.5	
XF 353A/B	29.0	22.4	22.4	22.4	
XF 354A/B	33.5	26.9	26.9	26.9	
XF 503	48.3	41.6	41.6	41.6	
XF Module 1510	48.1	41.4	41.4	41.4	
XF Module 1519	50.1	43.5	43.5	43.5	
Receiver PHS Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 68.3 dB(A)	Ld 7-19 dB(A)	Leq,N 66.1 dB(A)	Le 19-2	
ID Fan Motor	40.6	34.0	34.0	34.0	
18-1855 A/B	26.3	19.6	19.6	19.6	
18-1856 A/B	28.6	21.9	21.9	21.9	
18-1857 A/B	31.0	24.3	24.3	24.3	
18-1858 A/B	32.1	25.4	25.4	25.4	
18-PK 1802 Air Compressor Package	39.3	32.6	32.6	32.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	41.3	42.7	40.3		
Air Compressor C 1	46.6	39.9	39.9	39.9	
Air Compressor Pump	24.6	18.0	18.0	18.0	
Blower F 401	51.7	45.0	45.0	45.0	
Boiler Crude Unit-Heater Opening	24.2	17.5	17.5	17.5	
Boiler Feed Water Pump A	35.2	28.6	28.6	28.6	
Boiler Feed Water Pump B	37.4	30.8	30.8	30.8	
C-270 A	44.6	37.9	37.9	37.9	
C-270 B	43.9	37.2	37.2	37.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
C-270 C	42.2	35.5	35.5	35.5	
C-301 Compressor	44.1	37.4	37.4	37.4	
C-301 Motor	41.9	35.2	35.2	35.2	
C-351 Compressor	44.5	37.8	37.8	37.8	
C-351 Motor	44.6	38.0	38.0	38.0	
C370 A Motor	39.8	33.1	33.1	33.1	
C370 B Motor	45.7	39.0	39.0	39.0	
C370A	39.4	32.7	32.7	32.7	
C370B	46.4	39.7	39.7	39.7	
Cars Pumping 6 times in during delivery	37.2	40.2			
Compressor House C301, C302, C 124-Comp House East 1	29.4	22.7	22.7	22.7	
Compressor House C301, C302, C 124-Comp House East 2	33.1	26.5	26.5	26.5	
Compressor House C301, C302, C 124-Comp House North	55.8	49.1	49.1	49.1	
Compressor House C301, C302, C 124-Comp House South 1	34.3	27.6	27.6	27.6	
Compressor House C301, C302, C 124-Comp House South 2	28.5	21.9	21.9	21.9	
Compressor House C301, C302, C 124-Comp House West	38.6	31.9	31.9	31.9	
xxxx xxxx xxxx xxxx	35.4	28.7	28.7	28.7	
Cooling Tower CT 510-CT 510 East Side	33.9	27.2	27.2	27.2	
Cooling Tower CT 510-CT 510 West Side	44.9	38.3	38.3	38.3	
Cooling Tower CT 511-CT 511 East Side	34.3	27.6	27.6	27.6	
Cooling Tower CT 511-CT 511 West Side	43.8	37.1	37.1	37.1	
Cooling Tower M 512	26.6	20.0	20.0	20.0	
Cooling Tower M 513	41.1	34.4	34.4	34.4	
Cooling Tower M 514	29.4	22.7	22.7	22.7	
xxxx xxxx xxxx xxxx	35.0	28.7		28.7	
xxxx xxxx xxxx xxxx	62.5	61.0	59.3	53.4	
xxxx xxxx xxxx xxxx	65.1	63.5	61.8	55.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	34.7	28.0	28.0	28.0	
FD Fan Assembly-FD Fan - East	31.2	24.5	24.5	24.5	
FD Fan Assembly-FD Fan - North	33.3	26.6	26.6	26.6	
FD Fan Assembly-FD Fan - Roof	34.9	28.2	28.2	28.2	
FD Fan Assembly-FD Fan - South	31.7	25.0	25.0	25.0	
FD Fan Assembly-FD Fan - West	37.5	30.9	30.9	30.9	
FD Motor	27.8	21.1	21.1	21.1	
Feed Compressor-A Compressor	44.1	37.4	37.4	37.4	
Feed Compressor-A Motor	32.1	25.5	25.5	25.5	
Feed Compressor-B Compressor	47.8	41.1	41.1	41.1	
Feed Compressor -B Motor	44.9	38.3	38.3	38.3	
H2S Compressor 18-C-271	55.4	48.7	48.7	48.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Heater # 5-Heater	17.2	10.5	10.5	10.5	
Heater # 5-Heater	17.3	10.6	10.6	10.6	
Heater # 5-Heater	18.4	11.7	11.7	11.7	
Hydro Heater H-402	35.9	29.3	29.3	29.3	
ID Fan-ID Fan - East (128302)	22.0	15.3	15.3	15.3	
ID Fan-ID Fan - East 1 (128306)	21.4	14.7	14.7	14.7	
ID Fan-ID Fan - North	29.4	22.7	22.7	22.7	
ID Fan-ID Fan - North 2	27.0	20.3	20.3	20.3	
ID Fan-ID Fan - South	24.1	17.4	17.4	17.4	
ID Fan-ID Fan - South 2	27.6	20.9	20.9	20.9	
ID Fan-ID Fan Roof 01 (128293)	30.1	23.4	23.4	23.4	
xxxx xxxx xxxx xxxx	28.8	27.3	25.6	19.7	
xxxx xxxx xxxx xxxx	29.0	27.5	25.8	19.9	
Motor & Pump P - 1502 Splitter Reflux Pu	35.5	28.8	28.8	28.8	
Motor & Pump P - 1503 Splitter Bottoms P	33.3	26.6	26.6	26.6	
Motor & Pump P - 1504 Splitter Bottoms P	35.4	28.7	28.7	28.7	
Motor & Pump P - 1507 Reactor Pump	36.0	29.3	29.3	29.3	
Motor & Pump P - 1508 Reactor Pump	37.5	30.8	30.8	30.8	
Motor & Pump P - 1511 Stabilizer Reflux	40.2	33.5	33.5	33.5	
Motor & Pump P - 1512 Stabilizer Reflux	42.0	35.3	35.3	35.3	
Motor & Pump P - 1513 Caustic Circulatin	44.9	38.3	38.3	38.3	
Motor & Pump P - 1514 Caustic Circulatin	44.0	37.3	37.3	37.3	
Motor & Pump P 120/121	45.9	39.3	39.3	39.3	
Motor & Pump P 1505 FRESH FEED PUMPS	40.6	33.9	33.9	33.9	
Motor & Pump P 1506 FRESH FEED PUMPS	38.8	32.1	32.1	32.1	
Motor & Pump P 1509 Chloride Injection P	34.2	27.5	27.5	27.5	
Motor & Pump P 1510 Chloride Injection P	37.2	30.6	30.6	30.6	
Motor & Pump P 1601 A	41.3	34.6	34.6	34.6	
Motor & Pump P 1601 B	42.1	35.5	35.5	35.5	
Motor & Pump P 1602 A	42.9	36.2	36.2	36.2	
Motor & Pump P 1602 B	44.1	37.5	37.5	37.5	
Motor & Pump P 211/212	25.4	18.7	18.7	18.7	
Motor & Pump P 215/214	25.9	19.2	19.2	19.2	
Motor & Pump P 216	30.6	23.9	23.9	23.9	
Motor & Pump P 217/218	24.6	17.9	17.9	17.9	
Motor & Pump P 300	46.3	39.6	39.6	39.6	
Motor & Pump P 301	51.5	44.9	44.9	44.9	
Motor & Pump P 302	47.3	40.7	40.7	40.7	
Motor & Pump P 303	47.6	40.9	40.9	40.9	
Motor & Pump P 305	44.8	38.2	38.2	38.2	
Motor & Pump P 306	63.7	57.0	57.0	57.0	
Motor & Pump P 307	46.7	40.0	40.0	40.0	
Motor & Pump P 309	48.2	41.5	41.5	41.5	
Motor & Pump P 312	49.6	42.9	42.9	42.9	
Motor & Pump P 313	50.9	44.2	44.2	44.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 315	49.7	43.0	43.0	43.0	
Motor & Pump P 316	50.4	43.7	43.7	43.7	
Motor & Pump P 317	49.8	43.1	43.1	43.1	
Motor & Pump P 318	45.1	38.4	38.4	38.4	
Motor & Pump P 319	45.1	38.4	38.4	38.4	
Motor & Pump P 327	64.4	57.7	57.7	57.7	
Motor & Pump P 328	63.0	56.4	56.4	56.4	
Motor & Pump P 329	64.8	58.1	58.1	58.1	
Motor & Pump P 451	36.3	29.7	29.7	29.7	
Motor & Pump P 453	38.5	31.8	31.8	31.8	
Motor & Pump P 454	36.3	29.6	29.6	29.6	
Motor & Pump P 457	37.3	30.6	30.6	30.6	
Motor & Pump P 458	36.9	30.2	30.2	30.2	
Motor & Pump P 459	36.2	29.5	29.5	29.5	
Motor & Pump P 56A/B	40.7	34.0	34.0	34.0	
Nitrogen Skid w Compressor 18-PK 1806	51.6	45.0	45.0	45.0	
P-060 A/B	33.8	27.1	27.1	27.1	
P-1101 A	26.3	19.6	19.6	19.6	
P-1103	25.5	18.8	18.8	18.8	
P-1105 A/B/C	27.2	20.5	20.5	20.5	
P-1800	29.3	22.7	22.7	22.7	
P-1801	33.4	26.7	26.7	26.7	
P-1802	31.9	25.2	25.2	25.2	
P-1803	19.6	12.9	12.9	12.9	
P-1804	36.9	30.2	30.2	30.2	
P-1805	37.0	30.3	30.3	30.3	
P-1806	34.7	28.0	28.0	28.0	
P-1809 A	25.9	19.2	19.2	19.2	
P-1810 A/B/C	21.3	14.7	14.7	14.7	
P-1811 A/B	38.8	32.1	32.1	32.1	
P-1811 A/B	37.1	30.4	30.4	30.4	
P-1847 A/B	26.3	19.6	19.6	19.6	
P-1849 A/B	26.2	19.5	19.5	19.5	
P-1853	37.3	30.7	30.7	30.7	
P-2 A/B	33.3	26.6	26.6	26.6	
P-251 A/B	34.3	27.7	27.7	27.7	
P-252 A/B	31.3	24.6	24.6	24.6	
P-253	32.4	25.8	25.8	25.8	
P-254 A/B	33.4	26.7	26.7	26.7	
P-255 A/B	33.2	26.5	26.5	26.5	
P-255 A/B	29.6	22.9	22.9	22.9	
P-256 A/B	33.5	26.9	26.9	26.9	
P-259 A/B	31.9	25.3	25.3	25.3	
P-260	30.4	23.7	23.7	23.7	
P-261 A/B	32.3	25.6	25.6	25.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-262 A/B	28.1	21.4	21.4	21.4	
P-263 A/B	28.6	21.9	21.9	21.9	
P-270 A/B	35.7	29.1	29.1	29.1	
P-271 A/B	33.3	26.6	26.6	26.6	
P-272 A/B	33.0	26.4	26.4	26.4	
P-273 A/B	35.9	29.2	29.2	29.2	
P-275 A/B/C	33.4	26.7	26.7	26.7	
P-305	31.2	24.6	24.6	24.6	
P-306	37.6	30.9	30.9	30.9	
P-309	32.2	25.5	25.5	25.5	
P-328	38.1	31.4	31.4	31.4	
P-329	38.2	31.5	31.5	31.5	
P-353	35.3	28.6	28.6	28.6	
P-358 A/B	35.9	29.2	29.2	29.2	
P-359 A/B	25.4	18.7	18.7	18.7	
P-360 A/B	27.9	21.2	21.2	21.2	
P-361A	38.9	32.3	32.3	32.3	
P-371 A/B	35.4	28.8	28.8	28.8	
P-373 A/B	33.5	26.8	26.8	26.8	
P-374 A/B	31.7	25.0	25.0	25.0	
P-375 A/B	36.7	30.1	30.1	30.1	
P-376	31.9	25.2	25.2	25.2	
P-376 A/B	32.5	25.8	25.8	25.8	
P-377	32.1	25.4	25.4	25.4	
P-50 A/B	34.1	27.5	27.5	27.5	
P-51 A/B	18.4	11.7	11.7	11.7	
P-63	25.5	18.8	18.8	18.8	
P-70 A/B	17.9	11.3	11.3	11.3	
P-73 A/B	28.5	21.8	21.8	21.8	
Piping Furnace Tanks	19.8	13.1	13.1	13.1	
Piping Hydrogen Tanks Compressor	33.4	26.7	26.7	26.7	
Piping Hydrogen Tanks Compressor w NC	45.6	39.0	39.0	39.0	
Piping Hydrogen Tanks Compressorw NC	42.2	35.5	35.5	35.5	
Pre-Treat Train-Pre-Treat Outside Area E	30.5	23.8	23.8	23.8	
Pre-Treat Train-Pre-Treat Outside Area N	47.4	40.7	40.7	40.7	
Pre-Treat Train-Pre-Treat Outside Area N2	37.8	31.1	31.1	31.1	
Pre-Treat Train-Pre-Treat Outside Area S	35.8	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area S2	28.7	22.0	22.0	22.0	
Pre-Treat Train-Pre-Treat Outside Area W1	34.3	27.6	27.6	27.6	
Pre-Treat Train-Pre-Treat Outside Area W2	38.4	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area W3	34.3	27.7	27.7	27.7	
Pre-Treat Train-Roof 01	46.5	39.9	39.9	39.9	
PSA Pipe 3" Lagging	23.1	16.4	16.4	16.4	
PSA Skid Additional Piping w NC	48.3	41.7	41.7	41.7	
Reformer-Burner Reformer East	42.7	36.0	36.0	36.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Reformer-Burner Reformer North	37.4	30.7	30.7	30.7	
Reformer-Burner Reformer South	25.6	18.9	18.9	18.9	
Reformer-Burner Reformer West	29.0	22.3	22.3	22.3	
xxxx xxxx xxxx xxxx	15.4	9.2		9.2	
xxxx xxxx xxxx xxxx	21.9	15.6		15.6	
RFG A from battery to process	33.6	26.9	26.9	26.9	
RFG A from battery to process w NC	38.2	31.5	31.5	31.5	
xxxx xxxx xxxx xxxx	31.4	29.9	28.2	22.3	
xxxx xxxx xxxx xxxx	31.4	29.9	28.2	22.3	
Stack Noise	44.4	37.7	37.7	37.7	
Steam Turbine-Facade 01	28.0	21.3	21.3	21.3	
Steam Turbine-Facade 02	20.3	13.7	13.7	13.7	
Steam Turbine-Facade 03	30.8	24.1	24.1	24.1	
Steam Turbine-Facade 04	33.8	27.2	27.2	27.2	
Steam Turbine-Roof 01	31.4	24.7	24.7	24.7	
Tank Farm Pump 1	25.2	18.5	18.5	18.5	
Tank Farm Pump 2	27.5	20.8	20.8	20.8	
Tank Farm Pump 3	28.8	22.1	22.1	22.1	
UP Train Locomotive Delivery and Pickup 2022 2x	39.7	42.7			
XF-1502 Splitter Area 1	46.8	40.1	40.1	40.1	
XF-1502 Splitter Area 2	42.8	36.2	36.2	36.2	
XF-1504 Splitter Area 1	47.3	40.6	40.6	40.6	
XF-1504 Splitter Area 2	42.7	36.1	36.1	36.1	
XF - 1601	42.3	35.7	35.7	35.7	
XF - 1602	41.4	34.8	34.8	34.8	
XF 251, 250, 271, 270	39.9	33.2	33.2	33.2	
XF 260, 261A, 261 B	37.2	30.6	30.6	30.6	
XF 304, XF 321	54.4	47.7	47.7	47.7	
XF 313, XF 314	59.1	52.5	52.5	52.5	
XF 335-1, XF 335-2	59.6	52.9	52.9	52.9	
XF 353A/B	33.0	26.3	26.3	26.3	
XF 353A/B	32.6	25.9	25.9	25.9	
XF 354A/B	32.8	26.1	26.1	26.1	
XF 503	53.1	46.4	46.4	46.4	
XF Module 1510	46.9	40.2	40.2	40.2	
XF Module 1519	50.1	43.4	43.4	43.4	
Receiver RMHP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.8 dB(A) Ld 7-19 dB(A) Leq,N 64.7 dB(A) Le 19					
ID Fan Motor	27.4	20.7	20.7	20.7	
18-1855 A/B	25.2	18.5	18.5	18.5	
18-1856 A/B	30.7	24.1	24.1	24.1	
18-1857 A/B	24.8	18.2	18.2	18.2	
18-1858 A/B	26.0	19.3	19.3	19.3	
18-PK 1802 Air Compressor Package	39.0	32.4	32.4	32.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	29.9	31.3	28.9		

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Air Compressor C 1	37.1	30.4	30.4	30.4	
Air Compressor Pump	31.0	24.3	24.3	24.3	
Blower F 401	39.8	33.1	33.1	33.1	
Boiler Crude Unit-Heater Opening	30.0	23.3	23.3	23.3	
Boiler Feed Water Pump A	30.4	23.7	23.7	23.7	
Boiler Feed Water Pump B	30.3	23.6	23.6	23.6	
C-270 A	35.1	28.4	28.4	28.4	
C-270 B	36.1	29.4	29.4	29.4	
C-270 C	36.7	30.1	30.1	30.1	
C-301 Compressor	38.4	31.7	31.7	31.7	
C-301 Motor	36.7	30.0	30.0	30.0	
C-351 Compressor	36.4	29.8	29.8	29.8	
C-351 Motor	34.7	28.0	28.0	28.0	
C370 A Motor	36.6	29.9	29.9	29.9	
C370 B Motor	39.3	32.6	32.6	32.6	
C370A	36.7	30.0	30.0	30.0	
C370B	36.6	29.9	29.9	29.9	
Cars Pumping 6 times in during delivery	26.2	29.3			
Compressor House C301, C302, C 124-Comp House East 1	25.0	18.3	18.3	18.3	
Compressor House C301, C302, C 124-Comp House East 2	24.7	18.0	18.0	18.0	
Compressor House C301, C302, C 124-Comp House North	34.9	28.2	28.2	28.2	
Compressor House C301, C302, C 124-Comp House South 1	25.6	18.9	18.9	18.9	
Compressor House C301, C302, C 124-Comp House South 2	19.0	12.4	12.4	12.4	
Compressor House C301, C302, C 124-Comp House West	10.4	3.7	3.7	3.7	
xxxx xxxx xxxx xxxx	52.1	45.4	45.4	45.4	
Cooling Tower CT 510-CT 510 East Side	18.6	11.9	11.9	11.9	
Cooling Tower CT 510-CT 510 West Side	9.4	2.7	2.7	2.7	
Cooling Tower CT 511-CT 511 East Side	21.3	14.6	14.6	14.6	
Cooling Tower CT 511-CT 511 West Side	16.2	9.6	9.6	9.6	
Cooling Tower M 512	14.1	7.4	7.4	7.4	
Cooling Tower M 513	13.9	7.3	7.3	7.3	
Cooling Tower M 514	14.1	7.4	7.4	7.4	
xxxx xxxx xxxx xxxx	66.6	60.3		60.3	
xxxx xxxx xxxx xxxx	33.3	31.7	30.0	24.1	
xxxx xxxx xxxx xxxx	33.3	31.8	30.0	24.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	30.3	23.7	23.7	23.7	
FD Fan Assembly-FD Fan - East	29.6	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - North	26.8	20.1	20.1	20.1	
FD Fan Assembly-FD Fan - Roof	29.2	22.5	22.5	22.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
FD Fan Assembly-FD Fan - South	24.8	18.1	18.1	18.1	
FD Fan Assembly-FD Fan - West	26.5	19.9	19.9	19.9	
FD Motor	26.8	20.1	20.1	20.1	
Feed Compressor-A Compressor	37.7	31.0	31.0	31.0	
Feed Compressor-A Motor	36.4	29.7	29.7	29.7	
Feed Compressor-B Compressor	36.8	30.1	30.1	30.1	
Feed Compressor -B Motor	35.0	28.3	28.3	28.3	
H2S Compressor 18-C-271	32.2	25.5	25.5	25.5	
Heater # 5-Heater	22.4	15.8	15.8	15.8	
Heater # 5-Heater	18.5	11.8	11.8	11.8	
Heater # 5-Heater	18.8	12.1	12.1	12.1	
Hydro Heater H-402	17.3	10.7	10.7	10.7	
ID Fan-ID Fan - East (128302)	12.9	6.2	6.2	6.2	
ID Fan-ID Fan - East 1 (128306)	12.8	6.1	6.1	6.1	
ID Fan-ID Fan - North	27.4	20.7	20.7	20.7	
ID Fan-ID Fan - North 2	17.1	10.4	10.4	10.4	
ID Fan-ID Fan - South	17.8	11.1	11.1	11.1	
ID Fan-ID Fan - South 2	16.6	10.0	10.0	10.0	
ID Fan-ID Fan Roof 01 (128293)	23.8	17.1	17.1	17.1	
xxxx xxxx xxxx xxxx	68.9	67.4	65.7	59.8	
xxxx xxxx xxxx xxxx	67.0	65.4	63.7	57.8	
Motor & Pump P - 1502 Splitter Reflux Pu	18.9	12.2	12.2	12.2	
Motor & Pump P - 1503 Splitter Bottoms P	20.3	13.6	13.6	13.6	
Motor & Pump P - 1504 Splitter Bottoms P	26.0	19.3	19.3	19.3	
Motor & Pump P - 1507 Reactor Pump	20.5	13.8	13.8	13.8	
Motor & Pump P - 1508 Reactor Pump	23.4	16.7	16.7	16.7	
Motor & Pump P - 1511 Stabilizer Reflux	25.8	19.1	19.1	19.1	
Motor & Pump P - 1512 Stabilizer Reflux	25.8	19.1	19.1	19.1	
Motor & Pump P - 1513 Caustic Circulatin	25.7	19.0	19.0	19.0	
Motor & Pump P - 1514 Caustic Circulatin	25.7	19.1	19.1	19.1	
Motor & Pump P 120/121	22.1	15.5	15.5	15.5	
Motor & Pump P 1505 FRESH FEED PUMPS	13.1	6.4	6.4	6.4	
Motor & Pump P 1506 FRESH FEED PUMPS	13.1	6.4	6.4	6.4	
Motor & Pump P 1509 Chloride Injection P	13.0	6.3	6.3	6.3	
Motor & Pump P 1510 Chloride Injection P	15.1	8.5	8.5	8.5	
Motor & Pump P 1601 A	18.1	11.4	11.4	11.4	
Motor & Pump P 1601 B	18.0	11.3	11.3	11.3	
Motor & Pump P 1602 A	18.1	11.4	11.4	11.4	
Motor & Pump P 1602 B	18.3	11.6	11.6	11.6	
Motor & Pump P 211/212	11.3	4.6	4.6	4.6	
Motor & Pump P 215/214	10.4	3.8	3.8	3.8	
Motor & Pump P 216	15.9	9.2	9.2	9.2	
Motor & Pump P 217/218	11.2	4.5	4.5	4.5	
Motor & Pump P 300	23.7	17.0	17.0	17.0	
Motor & Pump P 301	28.7	22.0	22.0	22.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 302	23.7	17.0	17.0	17.0	
Motor & Pump P 303	19.0	12.3	12.3	12.3	
Motor & Pump P 305	24.5	17.9	17.9	17.9	
Motor & Pump P 306	33.9	27.2	27.2	27.2	
Motor & Pump P 307	26.2	19.5	19.5	19.5	
Motor & Pump P 309	17.4	10.8	10.8	10.8	
Motor & Pump P 312	32.5	25.8	25.8	25.8	
Motor & Pump P 313	26.4	19.8	19.8	19.8	
Motor & Pump P 315	33.9	27.2	27.2	27.2	
Motor & Pump P 316	33.9	27.2	27.2	27.2	
Motor & Pump P 317	33.9	27.2	27.2	27.2	
Motor & Pump P 318	31.1	24.4	24.4	24.4	
Motor & Pump P 319	31.1	24.4	24.4	24.4	
Motor & Pump P 327	29.5	22.8	22.8	22.8	
Motor & Pump P 328	30.2	23.5	23.5	23.5	
Motor & Pump P 329	29.9	23.2	23.2	23.2	
Motor & Pump P 451	13.3	6.6	6.6	6.6	
Motor & Pump P 453	23.4	16.7	16.7	16.7	
Motor & Pump P 454	13.3	6.6	6.6	6.6	
Motor & Pump P 457	23.4	16.7	16.7	16.7	
Motor & Pump P 458	13.3	6.6	6.6	6.6	
Motor & Pump P 459	13.3	6.6	6.6	6.6	
Motor & Pump P 56A/B	9.9	3.3	3.3	3.3	
Nitrogen Skid w Compressor 18-PK 1806	26.5	19.8	19.8	19.8	
P-060 A/B	25.0	18.4	18.4	18.4	
P-1101 A	23.0	16.4	16.4	16.4	
P-1103	22.9	16.2	16.2	16.2	
P-1105 A/B/C	23.1	16.5	16.5	16.5	
P-1800	24.6	17.9	17.9	17.9	
P-1801	24.7	18.0	18.0	18.0	
P-1802	23.4	16.8	16.8	16.8	
P-1803	23.2	16.5	16.5	16.5	
P-1804	23.6	17.0	17.0	17.0	
P-1805	23.6	16.9	16.9	16.9	
P-1806	23.1	16.4	16.4	16.4	
P-1809 A	24.4	17.7	17.7	17.7	
P-1810 A/B/C	23.3	16.6	16.6	16.6	
P-1811 A/B	25.8	19.1	19.1	19.1	
P-1811 A/B	23.5	16.8	16.8	16.8	
P-1847 A/B	27.0	20.4	20.4	20.4	
P-1849 A/B	26.5	19.9	19.9	19.9	
P-1853	26.0	19.3	19.3	19.3	
P-2 A/B	25.5	18.9	18.9	18.9	
P-251 A/B	31.8	25.2	25.2	25.2	
P-252 A/B	31.2	24.6	24.6	24.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-253	31.6	25.0	25.0	25.0	
P-254 A/B	35.8	29.1	29.1	29.1	
P-255 A/B	35.8	29.1	29.1	29.1	
P-255 A/B	31.5	24.8	24.8	24.8	
P-256 A/B	32.2	25.6	25.6	25.6	
P-259 A/B	31.6	24.9	24.9	24.9	
P-260	31.5	24.8	24.8	24.8	
P-261 A/B	31.5	24.8	24.8	24.8	
P-262 A/B	31.6	24.9	24.9	24.9	
P-263 A/B	31.8	25.2	25.2	25.2	
P-270 A/B	29.6	22.9	22.9	22.9	
P-271 A/B	26.1	19.4	19.4	19.4	
P-272 A/B	26.7	20.1	20.1	20.1	
P-273 A/B	29.8	23.1	23.1	23.1	
P-275 A/B/C	32.1	25.4	25.4	25.4	
P-305	26.8	20.1	20.1	20.1	
P-306	27.5	20.9	20.9	20.9	
P-309	26.7	20.0	20.0	20.0	
P-328	26.3	19.7	19.7	19.7	
P-329	27.2	20.6	20.6	20.6	
P-353	26.3	19.6	19.6	19.6	
P-358 A/B	27.0	20.3	20.3	20.3	
P-359 A/B	28.7	22.1	22.1	22.1	
P-360 A/B	23.8	17.1	17.1	17.1	
P-361A	22.4	15.7	15.7	15.7	
P-371 A/B	26.2	19.5	19.5	19.5	
P-373 A/B	27.4	20.7	20.7	20.7	
P-374 A/B	27.5	20.8	20.8	20.8	
P-375 A/B	26.0	19.3	19.3	19.3	
P-376	27.6	20.9	20.9	20.9	
P-376 A/B	27.3	20.6	20.6	20.6	
P-377	27.6	21.0	21.0	21.0	
P-50 A/B	25.9	19.2	19.2	19.2	
P-51 A/B	22.7	16.0	16.0	16.0	
P-63	22.9	16.2	16.2	16.2	
P-70 A/B	25.4	18.7	18.7	18.7	
P-73 A/B	25.3	18.7	18.7	18.7	
Piping Furnace Tanks	5.6	-1.0	-1.0	-1.0	
Piping Hydrogen Tanks Compressor	19.9	13.2	13.2	13.2	
Piping Hydrogen Tanks Compressor w NC	32.6	25.9	25.9	25.9	
Piping Hydrogen Tanks Compressorw NC	28.6	21.9	21.9	21.9	
Pre-Treat Train-Pre-Treat Outside Area E	55.5	48.8	48.8	48.8	
Pre-Treat Train-Pre-Treat Outside Area N	55.7	49.1	49.1	49.1	
Pre-Treat Train-Pre-Treat Outside Area N2	35.7	29.0	29.0	29.0	
Pre-Treat Train-Pre-Treat Outside Area S	38.8	32.1	32.1	32.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Pre-Treat Train-Pre-Treat Outside Area S2	29.2	22.5	22.5	22.5	
Pre-Treat Train-Pre-Treat Outside Area W1	30.2	23.5	23.5	23.5	
Pre-Treat Train-Pre-Treat Outside Area W2	32.3	25.6	25.6	25.6	
Pre-Treat Train-Pre-Treat Outside Area W3	31.5	24.9	24.9	24.9	
Pre-Treat Train-Roof 01	56.3	49.6	49.6	49.6	
PSA Pipe 3" Lagging	0.4	-6.3	-6.3	-6.3	
PSA Skid Additional Piping w NC	35.1	28.4	28.4	28.4	
Reformer-Burner Reformer East	32.2	25.5	25.5	25.5	
Reformer-Burner Reformer North	16.0	9.3	9.3	9.3	
Reformer-Burner Reformer South	25.4	18.7	18.7	18.7	
Reformer-Burner Reformer West	19.8	13.1	13.1	13.1	
xxxx xxxx xxxx xxxx	37.7	31.4		31.4	
xxxx xxxx xxxx xxxx	36.2	30.0		30.0	
RFG A from battery to process	21.1	14.4	14.4	14.4	
RFG A from battery to process w NC	27.2	20.5	20.5	20.5	
xxxx xxxx xxxx xxxx	37.7	36.2	34.5	28.6	
xxxx xxxx xxxx xxxx	37.7	36.2	34.5	28.6	
Stack Noise	44.1	37.4	37.4	37.4	
Steam Turbine-Facade 01	14.6	7.9	7.9	7.9	
Steam Turbine-Facade 02	11.6	4.9	4.9	4.9	
Steam Turbine-Facade 03	14.9	8.3	8.3	8.3	
Steam Turbine-Facade 04	11.2	4.5	4.5	4.5	
Steam Turbine-Roof 01	15.0	8.4	8.4	8.4	
Tank Farm Pump 1	27.2	20.5	20.5	20.5	
Tank Farm Pump 2	24.3	17.6	17.6	17.6	
Tank Farm Pump 3	24.0	17.3	17.3	17.3	
UP Train Locomotive Delivery and Pickup 2022 2x	21.2	24.2			
XF-1502 Splitter Area 1	33.7	27.0	27.0	27.0	
XF-1502 Splitter Area 2	31.6	24.9	24.9	24.9	
XF-1504 Splitter Area 1	33.7	27.1	27.1	27.1	
XF-1504 Splitter Area 2	31.6	24.9	24.9	24.9	
XF - 1601	30.6	24.0	24.0	24.0	
XF - 1602	22.3	15.6	15.6	15.6	
XF 251, 250, 271, 270	37.8	31.2	31.2	31.2	
XF 260, 261A, 261 B	35.1	28.5	28.5	28.5	
XF 304, XF 321	38.3	31.6	31.6	31.6	
XF 313, XF 314	36.5	29.8	29.8	29.8	
XF 335-1, XF 335-2	39.8	33.1	33.1	33.1	
XF 353A/B	30.5	23.8	23.8	23.8	
XF 353A/B	30.1	23.4	23.4	23.4	
XF 354A/B	31.5	24.8	24.8	24.8	
XF 503	33.5	26.9	26.9	26.9	
XF Module 1510	28.4	21.8	21.8	21.8	
XF Module 1519	37.9	31.2	31.2	31.2	
Receiver RLCTP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.2 dB(A) Ld 7-19 dB(A) Leq,N 60.3 dB(A) Le 1					

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
ID Fan Motor	27.5	20.8	20.8	20.8	
18-1855 A/B	27.6	20.9	20.9	20.9	
18-1856 A/B	27.5	20.8	20.8	20.8	
18-1857 A/B	27.7	21.0	21.0	21.0	
18-1858 A/B	27.8	21.2	21.2	21.2	
18-PK 1802 Air Compressor Package	35.9	29.2	29.2	29.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	28.2	29.6	27.2		
Air Compressor C 1	37.9	31.3	31.3	31.3	
Air Compressor Pump	22.5	15.8	15.8	15.8	
Blower F 401	39.4	32.7	32.7	32.7	
Boiler Crude Unit-Heater Opening	27.4	20.7	20.7	20.7	
Boiler Feed Water Pump A	25.6	18.9	18.9	18.9	
Boiler Feed Water Pump B	26.6	19.9	19.9	19.9	
C-270 A	33.0	26.3	26.3	26.3	
C-270 B	33.6	27.0	27.0	27.0	
C-270 C	34.5	27.8	27.8	27.8	
C-301 Compressor	34.7	28.0	28.0	28.0	
C-301 Motor	31.7	25.0	25.0	25.0	
C-351 Compressor	35.6	28.9	28.9	28.9	
C-351 Motor	31.7	25.1	25.1	25.1	
C370 A Motor	32.9	26.2	26.2	26.2	
C370 B Motor	33.2	26.5	26.5	26.5	
C370A	33.2	26.6	26.6	26.6	
C370B	33.2	26.5	26.5	26.5	
Cars Pumping 6 times in during delivery	24.6	27.6			
Compressor House C301, C302, C 124-Comp House East 1	27.0	20.3	20.3	20.3	
Compressor House C301, C302, C 124-Comp House East 2	27.2	20.5	20.5	20.5	
Compressor House C301, C302, C 124-Comp House North	24.1	17.4	17.4	17.4	
Compressor House C301, C302, C 124-Comp House South 1	36.3	29.7	29.7	29.7	
Compressor House C301, C302, C 124-Comp House South 2	27.7	21.0	21.0	21.0	
Compressor House C301, C302, C 124-Comp House West	11.1	4.5	4.5	4.5	
xxxx xxxx xxxx xxxx	58.6	51.9	51.9	51.9	
Cooling Tower CT 510-CT 510 East Side	19.9	13.3	13.3	13.3	
Cooling Tower CT 510-CT 510 West Side	11.0	4.4	4.4	4.4	
Cooling Tower CT 511-CT 511 East Side	31.3	24.6	24.6	24.6	
Cooling Tower CT 511-CT 511 West Side	16.7	10.0	10.0	10.0	
Cooling Tower M 512	24.1	17.4	17.4	17.4	
Cooling Tower M 513	24.1	17.5	17.5	17.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Cooling Tower M 514	24.1	17.4	17.4	17.4	
xxxx xxxx xxxx xxxx	57.1	50.8		50.8	
xxxx xxxx xxxx xxxx	14.5	13.0	11.3	5.4	
xxxx xxxx xxxx xxxx	14.5	13.0	11.3	5.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	26.8	20.2	20.2	20.2	
FD Fan Assembly-FD Fan - East	30.8	24.1	24.1	24.1	
FD Fan Assembly-FD Fan - North	25.0	18.3	18.3	18.3	
FD Fan Assembly-FD Fan - Roof	29.4	22.7	22.7	22.7	
FD Fan Assembly-FD Fan - South	29.1	22.5	22.5	22.5	
FD Fan Assembly-FD Fan - West	28.0	21.4	21.4	21.4	
FD Motor	27.4	20.7	20.7	20.7	
Feed Compressor-A Compressor	31.9	25.2	25.2	25.2	
Feed Compressor-A Motor	32.4	25.7	25.7	25.7	
Feed Compressor-B Compressor	31.8	25.1	25.1	25.1	
Feed Compressor -B Motor	27.0	20.4	20.4	20.4	
H2S Compressor 18-C-271	26.9	20.2	20.2	20.2	
Heater # 5-Heater	20.4	13.8	13.8	13.8	
Heater # 5-Heater	18.4	11.7	11.7	11.7	
Heater # 5-Heater	20.0	13.3	13.3	13.3	
Hydro Heater H-402	20.2	13.5	13.5	13.5	
ID Fan-ID Fan - East (128302)	20.8	14.1	14.1	14.1	
ID Fan-ID Fan - East 1 (128306)	13.0	6.4	6.4	6.4	
ID Fan-ID Fan - North	19.2	12.5	12.5	12.5	
ID Fan-ID Fan - North 2	17.3	10.7	10.7	10.7	
ID Fan-ID Fan - South	28.1	21.4	21.4	21.4	
ID Fan-ID Fan - South 2	23.1	16.5	16.5	16.5	
ID Fan-ID Fan Roof 01 (128293)	26.4	19.8	19.8	19.8	
xxxx xxxx xxxx xxxx	64.8	63.3	61.6	55.7	
xxxx xxxx xxxx xxxx	64.2	62.7	61.0	55.1	
Motor & Pump P - 1502 Splitter Reflux Pu	19.9	13.2	13.2	13.2	
Motor & Pump P - 1503 Splitter Bottoms P	19.5	12.8	12.8	12.8	
Motor & Pump P - 1504 Splitter Bottoms P	16.3	9.6	9.6	9.6	
Motor & Pump P - 1507 Reactor Pump	20.1	13.4	13.4	13.4	
Motor & Pump P - 1508 Reactor Pump	18.5	11.9	11.9	11.9	
Motor & Pump P - 1511 Stabilizer Reflux	16.1	9.4	9.4	9.4	
Motor & Pump P - 1512 Stabilizer Reflux	16.1	9.5	9.5	9.5	
Motor & Pump P - 1513 Caustic Circulatin	15.4	8.7	8.7	8.7	
Motor & Pump P - 1514 Caustic Circulatin	15.4	8.7	8.7	8.7	
Motor & Pump P 120/121	17.4	10.8	10.8	10.8	
Motor & Pump P 1505 FRESH FEED PUMPS	13.8	7.1	7.1	7.1	
Motor & Pump P 1506 FRESH FEED PUMPS	13.7	7.0	7.0	7.0	
Motor & Pump P 1509 Chloride Injection P	15.5	8.8	8.8	8.8	
Motor & Pump P 1510 Chloride Injection P	15.6	8.9	8.9	8.9	
Motor & Pump P 1601 A	17.3	10.6	10.6	10.6	
Motor & Pump P 1601 B	17.1	10.5	10.5	10.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Motor & Pump P 1602 A	17.1	10.4	10.4	10.4	
Motor & Pump P 1602 B	17.1	10.5	10.5	10.5	
Motor & Pump P 211/212	16.2	9.5	9.5	9.5	
Motor & Pump P 215/214	22.0	15.4	15.4	15.4	
Motor & Pump P 216	20.9	14.2	14.2	14.2	
Motor & Pump P 217/218	21.0	14.4	14.4	14.4	
Motor & Pump P 300	18.6	11.9	11.9	11.9	
Motor & Pump P 301	24.3	17.7	17.7	17.7	
Motor & Pump P 302	18.5	11.9	11.9	11.9	
Motor & Pump P 303	18.6	11.9	11.9	11.9	
Motor & Pump P 305	18.9	12.2	12.2	12.2	
Motor & Pump P 306	33.7	27.0	27.0	27.0	
Motor & Pump P 307	20.1	13.4	13.4	13.4	
Motor & Pump P 309	19.5	12.8	12.8	12.8	
Motor & Pump P 312	26.1	19.4	19.4	19.4	
Motor & Pump P 313	26.1	19.5	19.5	19.5	
Motor & Pump P 315	26.6	20.0	20.0	20.0	
Motor & Pump P 316	26.9	20.2	20.2	20.2	
Motor & Pump P 317	25.2	18.5	18.5	18.5	
Motor & Pump P 318	18.7	12.1	12.1	12.1	
Motor & Pump P 319	18.7	12.0	12.0	12.0	
Motor & Pump P 327	29.2	22.5	22.5	22.5	
Motor & Pump P 328	30.9	24.2	24.2	24.2	
Motor & Pump P 329	30.2	23.5	23.5	23.5	
Motor & Pump P 451	21.6	15.0	15.0	15.0	
Motor & Pump P 453	13.1	6.5	6.5	6.5	
Motor & Pump P 454	21.6	15.0	15.0	15.0	
Motor & Pump P 457	12.8	6.1	6.1	6.1	
Motor & Pump P 458	21.6	14.9	14.9	14.9	
Motor & Pump P 459	21.6	15.0	15.0	15.0	
Motor & Pump P 56A/B	15.8	9.1	9.1	9.1	
Nitrogen Skid w Compressor 18-PK 1806	33.8	27.1	27.1	27.1	
P-060 A/B	24.1	17.4	17.4	17.4	
P-1101 A	25.8	19.1	19.1	19.1	
P-1103	24.8	18.2	18.2	18.2	
P-1105 A/B/C	25.8	19.1	19.1	19.1	
P-1800	26.8	20.1	20.1	20.1	
P-1801	36.0	29.3	29.3	29.3	
P-1802	37.3	30.6	30.6	30.6	
P-1803	24.5	17.8	17.8	17.8	
P-1804	25.8	19.1	19.1	19.1	
P-1805	25.8	19.2	19.2	19.2	
P-1806	25.6	19.0	19.0	19.0	
P-1809 A	33.3	26.6	26.6	26.6	
P-1810 A/B/C	24.3	17.6	17.6	17.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
P-1811 A/B	25.3	18.6	18.6	18.6	
P-1811 A/B	25.9	19.2	19.2	19.2	
P-1847 A/B	25.1	18.4	18.4	18.4	
P-1849 A/B	25.2	18.6	18.6	18.6	
P-1853	24.4	17.7	17.7	17.7	
P-2 A/B	23.9	17.2	17.2	17.2	
P-251 A/B	24.1	17.5	17.5	17.5	
P-252 A/B	26.0	19.3	19.3	19.3	
P-253	25.9	19.3	19.3	19.3	
P-254 A/B	24.2	17.5	17.5	17.5	
P-255 A/B	24.9	18.3	18.3	18.3	
P-255 A/B	24.3	17.6	17.6	17.6	
P-256 A/B	24.1	17.4	17.4	17.4	
P-259 A/B	24.2	17.6	17.6	17.6	
P-260	26.3	19.6	19.6	19.6	
P-261 A/B	25.9	19.2	19.2	19.2	
P-262 A/B	26.2	19.6	19.6	19.6	
P-263 A/B	26.6	19.9	19.9	19.9	
P-270 A/B	23.4	16.8	16.8	16.8	
P-271 A/B	25.0	18.3	18.3	18.3	
P-272 A/B	24.2	17.5	17.5	17.5	
P-273 A/B	23.6	16.9	16.9	16.9	
P-275 A/B/C	26.0	19.3	19.3	19.3	
P-305	26.8	20.1	20.1	20.1	
P-306	26.5	19.8	19.8	19.8	
P-309	26.8	20.1	20.1	20.1	
P-328	25.8	19.2	19.2	19.2	
P-329	26.5	19.9	19.9	19.9	
P-353	23.3	16.6	16.6	16.6	
P-358 A/B	24.7	18.0	18.0	18.0	
P-359 A/B	24.5	17.8	17.8	17.8	
P-360 A/B	23.6	16.9	16.9	16.9	
P-361A	25.1	18.4	18.4	18.4	
P-371 A/B	27.5	20.8	20.8	20.8	
P-373 A/B	27.3	20.6	20.6	20.6	
P-374 A/B	27.3	20.6	20.6	20.6	
P-375 A/B	27.4	20.7	20.7	20.7	
P-376	27.3	20.7	20.7	20.7	
P-376 A/B	27.2	20.6	20.6	20.6	
P-377	27.3	20.7	20.7	20.7	
P-50 A/B	22.5	15.9	15.9	15.9	
P-51 A/B	22.8	16.2	16.2	16.2	
P-63	24.1	17.4	17.4	17.4	
P-70 A/B	22.6	15.9	15.9	15.9	
P-73 A/B	23.8	17.1	17.1	17.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
Piping Furnace Tanks	9.7	3.1	3.1	3.1	
Piping Hydrogen Tanks Compressor	19.3	12.6	12.6	12.6	
Piping Hydrogen Tanks Compressor w NC	31.4	24.7	24.7	24.7	
Piping Hydrogen Tanks Compressorw NC	26.0	19.3	19.3	19.3	
Pre-Treat Train-Pre-Treat Outside Area E	51.1	44.4	44.4	44.4	
Pre-Treat Train-Pre-Treat Outside Area N	39.4	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area N2	28.8	22.1	22.1	22.1	
Pre-Treat Train-Pre-Treat Outside Area S	39.1	32.4	32.4	32.4	
Pre-Treat Train-Pre-Treat Outside Area S2	28.5	21.9	21.9	21.9	
Pre-Treat Train-Pre-Treat Outside Area W1	28.9	22.2	22.2	22.2	
Pre-Treat Train-Pre-Treat Outside Area W2	31.7	25.0	25.0	25.0	
Pre-Treat Train-Pre-Treat Outside Area W3	32.1	25.4	25.4	25.4	
Pre-Treat Train-Roof 01	51.6	45.0	45.0	45.0	
PSA Pipe 3" Lagging	-0.5	-7.2	-7.2	-7.2	
PSA Skid Additional Piping w NC	33.3	26.7	26.7	26.7	
Reformer-Burner Reformer East	20.4	13.8	13.8	13.8	
Reformer-Burner Reformer North	15.2	8.5	8.5	8.5	
Reformer-Burner Reformer South	26.1	19.4	19.4	19.4	
Reformer-Burner Reformer West	31.5	24.9	24.9	24.9	
xxxx xxxx xxxx xxxx	25.2	18.9		18.9	
xxxx xxxx xxxx xxxx	28.6	22.3		22.3	
RFG A from battery to process	20.0	13.4	13.4	13.4	
RFG A from battery to process w NC	26.2	19.5	19.5	19.5	
xxxx xxxx xxxx xxxx	44.4	42.9	41.2	35.3	
xxxx xxxx xxxx xxxx	44.4	42.9	41.1	35.2	
Stack Noise	41.1	34.4	34.4	34.4	
Steam Turbine-Facade 01	26.2	19.5	19.5	19.5	
Steam Turbine-Facade 02	21.4	14.8	14.8	14.8	
Steam Turbine-Facade 03	22.0	15.3	15.3	15.3	
Steam Turbine-Facade 04	20.0	13.4	13.4	13.4	
Steam Turbine-Roof 01	26.8	20.2	20.2	20.2	
Tank Farm Pump 1	28.2	21.5	21.5	21.5	
Tank Farm Pump 2	27.9	21.3	21.3	21.3	
Tank Farm Pump 3	28.9	22.2	22.2	22.2	
UP Train Locomotive Delivery and Pickup 2022 2x	19.3	22.3			
XF-1502 Splitter Area 1	23.2	16.5	16.5	16.5	
XF-1502 Splitter Area 2	32.0	25.3	25.3	25.3	
XF-1504 Splitter Area 1	23.1	16.5	16.5	16.5	
XF-1504 Splitter Area 2	32.0	25.4	25.4	25.4	
XF - 1601	28.8	22.1	22.1	22.1	
XF - 1602	28.8	22.1	22.1	22.1	
XF 251, 250, 271, 270	33.2	26.6	26.6	26.6	
XF 260, 261A, 261 B	32.3	25.7	25.7	25.7	
XF 304, XF 321	32.9	26.2	26.2	26.2	
XF 313, XF 314	35.8	29.1	29.1	29.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	CNEL dB(A)	Ld 7-19 dB(A)	Le 19-22 dB(A)	Leq,N dB(A)	
XF 335-1, XF 335-2	36.5	29.9	29.9	29.9	
XF 353A/B	26.3	19.6	19.6	19.6	
XF 353A/B	27.5	20.8	20.8	20.8	
XF 354A/B	25.8	19.2	19.2	19.2	
XF 503	39.5	32.9	32.9	32.9	
XF Module 1510	35.3	28.6	28.6	28.6	
XF Module 1519	36.3	29.6	29.6	29.6	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
Receiver SS-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 67.5 dB(A)		Ld 7-19 dB(A)			Leq,N 67.0 dB(A)		Le 19-22 dB(A)		CNEL 73.7 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	259.4	-59.3	3.6	-15.8	-1.3		0.0	0.1	0.0	6.7	38.4	
18-1855 A/B	CNEL	98.8		217.8	-57.8	3.5	0.0	-1.1		0.0	0.0	0.0	6.7	50.1	
18-1856 A/B	CNEL	98.8		224.6	-58.0	3.6	0.0	-1.2		0.0	0.0	0.0	6.7	49.8	
18-1857 A/B	CNEL	98.8		211.3	-57.5	3.5	-4.8	-0.8		0.0	0.3	0.0	6.7	46.1	
18-1858 A/B	CNEL	98.8		206.8	-57.3	3.2	-6.3	-0.8		0.0	0.5	0.0	6.7	44.8	
18-PK 1802 Air Compressor Package	CNEL	103.1		228.7	-58.2	2.9	0.0	-0.9		0.0	0.0	0.0	6.7	53.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	90.5	-50.1	1.3	-0.1	-1.8		0.0	0.5	-4.8	1.0	55.0	
Air Compressor C 1	CNEL	110.0	5	194.1	-56.8	3.3	-14.0	-0.3	-1.11	0.0	2.8	0.0	6.7	50.6	
Air Compressor Pump	CNEL	100.3		143.3	-54.1	2.6	-15.6	-1.2		0.0	12.5	0.0	6.7	51.0	
Blower F 401	CNEL	113.0		84.1	-49.5	0.5	-13.1	-0.1		0.0	0.2	0.0	6.7	57.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.4	-2.1	-1.9		0.0	0.0	0.0	6.7	43.4	
Boiler Feed Water Pump A	CNEL	97.1	3	232.2	-58.3	3.5	-4.1	-1.3		0.0	0.0	0.0	6.7	43.7	
Boiler Feed Water Pump B	CNEL	97.1	3	231.1	-58.3	3.5	-4.3	-1.2		0.0	0.0	0.0	6.7	43.6	
C370 A Motor	CNEL	103.6	3	165.0	-55.3	2.2	-5.5	-1.1		0.0	0.0	0.0	6.7	50.7	
C370 B Motor	CNEL	108.6	3	173.5	-55.8	2.2	-5.7	-1.1		0.0	0.6	0.0	6.7	55.6	
C370A	CNEL	103.8	5	167.7	-55.5	2.3	-2.8	-1.1		0.0	0.9	0.0	6.7	54.2	
C370B	CNEL	103.8	5	176.1	-55.9	2.2	-5.0	-1.2		0.0	0.8	0.0	6.7	51.4	
C-270 A	CNEL	106.3	6	252.7	-59.0	2.5	-2.4	-1.6	-0.15	0.0	1.3	0.0	6.7	53.6	
C-270 B	CNEL	106.3	6	247.7	-58.9	2.5	-3.3	-1.5	-0.04	0.0	1.3	0.0	6.7	53.1	
C-270 C	CNEL	106.3	6	242.9	-58.7	2.4	-4.5	-1.5		0.0	1.4	0.0	6.7	52.1	
C-301 Compressor	CNEL	106.8	3	268.9	-59.6	2.8	0.0	-1.8	-1.33	0.0	0.1	0.0	6.7	53.6	
C-301 Motor	CNEL	106.8	4	265.1	-59.5	2.9	0.0	-2.6	-1.31	0.0	0.3	0.0	6.7	53.2	
C-351 Compressor	CNEL	106.8	4	271.5	-59.7	2.7	0.0	-1.9	-1.38	0.0	0.0	0.0	6.7	53.3	
C-351 Motor	CNEL	106.8	5	271.6	-59.7	2.5	-2.9	-2.7	-0.67	0.0	0.2	0.0	6.7	50.1	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	89.1	-50.0	0.6	-0.6	-0.3		0.0	0.5	-35.6	0.0	49.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.1	-52.9	1.6	-10.1	-0.7	-0.55	3.5	1.8	0.0	6.7	54.2	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	128.9	-53.2	1.8	-0.9	-1.1	-0.59	0.0	0.0	0.0	6.7	53.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	132.9	-53.5	1.7	-17.1	-0.3	-0.22	-7.8	5.5	0.0	6.7	41.5	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.0	-52.8	1.5	-9.9	-0.7		0.0	0.0	0.0	6.7	55.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.4	-53.0	1.7	-8.9	-0.6	-0.58	-0.5	0.0	0.0	6.7	48.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.8	-53.3	1.5	-11.8	-0.4		-4.0	6.4	0.0	6.7	45.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.0	-54.0	2.2	-15.3	-0.4		-6.2	5.4	0.0	6.7	36.3	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	135.9	-53.7	2.0	0.0	-1.1		4.1	0.0	0.0	6.7	55.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.1	-15.7	-0.5		-7.2	5.6	0.0	6.7	36.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.1	-54.1	2.2	-6.0	-0.7		3.4	0.0	0.0	6.7	52.1	
Cooling Tower M 512	CNEL	95.7		132.5	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2	
Cooling Tower M 513	CNEL	95.7		131.8	-53.4	2.5	0.0	-0.7		0.0	2.4	0.0	6.7	53.1	
Cooling Tower M 514	CNEL	95.7		133.0	-53.5	2.6	-3.3	-0.7		0.0	4.1	0.0	6.7	51.6	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	235.2	-58.4	1.7	-3.9	-1.3		-3.3	1.7	0.0	6.7	38.9	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	254.2	-59.1	3.2	-10.5	-0.1		0.0	0.0	0.0	6.7	35.5	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	254.4	-59.1	3.2	-11.8	-0.1		0.0	0.5	0.0	6.7	32.5	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	253.1	-59.1	2.4	-11.7	-0.1		0.0	0.0	0.0	6.7	31.7	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	251.8	-59.0	3.1	-8.4	-0.1		0.0	0.1	0.0	6.7	35.5	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	252.1	-59.0	3.2	-9.2	-0.1		0.0	0.2	0.0	6.7	37.1	
FD Motor	CNEL	103.3	2	255.1	-59.1	3.6	-20.7	-1.6		0.0	0.0	0.0	6.7	32.1	
Feed Compressor -B Motor	CNEL	103.8	5	195.9	-56.8	2.3	-6.2	-1.7		0.0	0.0	0.0	6.7	48.1	
Feed Compressor-A Compressor	CNEL	104.0	5	185.9	-56.4	2.4	-11.3	-0.8		0.0	0.0	0.0	6.7	44.6	
Feed Compressor-A Motor	CNEL	103.8	6	183.4	-56.3	2.3	-8.6	-1.3		0.0	0.0	0.0	6.7	46.6	
Feed Compressor-B Compressor	CNEL	104.0	7	198.5	-56.9	2.5	-6.8	-1.1		0.0	0.3	0.0	6.7	48.7	
H2S Compressor 18-C-271	CNEL	105.3	6	158.8	-55.0	2.5	-5.9	-0.7	-1.08	0.0	3.5	0.0	6.7	55.2	
Heater # 5-Heater	CNEL	91.1	13	288.2	-60.2	2.4	-11.7	-0.6		0.0	0.0	0.0	6.7	30.7	
Heater # 5-Heater	CNEL	91.1	13	283.2	-60.0	2.4	-7.4	-0.9		0.0	0.0	0.0	6.7	34.8	
Heater # 5-Heater	CNEL	91.1	13	293.0	-60.3	2.5	-13.9	-0.7		0.0	0.0	0.0	6.7	28.4	
Hydro Heater H-402	CNEL	98.1		123.5	-52.8	1.8	-10.7	-0.3	-0.75	0.0	0.0	0.0	6.7	42.0	
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	259.3	-59.3	3.7	-9.8	0.0		0.0	0.0	0.0	6.7	28.2	
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	258.0	-59.2	3.7	-6.5	-0.1		0.0	0.0	0.0	6.7	31.9	
ID Fan-ID Fan - North	CNEL	92.2	8	258.3	-59.2	3.7	-10.3	0.0		0.0	0.0	0.0	6.7	33.0	
ID Fan-ID Fan - North 2	CNEL	91.4	7	260.0	-59.3	3.7	-8.7	-0.1		0.0	0.0	0.0	6.7	33.8	
ID Fan-ID Fan - South	CNEL	92.3	9	256.5	-59.2	3.7	-1.7	-0.1		0.0	0.0	0.0	6.7	41.8	
ID Fan-ID Fan - South 2	CNEL	91.4	7	259.2	-59.3	3.7	-3.4	-0.1		0.0	0.0	0.0	6.7	39.1	
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	258.0	-59.2	3.2	-4.8	-0.1		0.0	0.0	0.0	6.7	39.7	
Motor & Pump P 56A/B	CNEL	93.7		137.6	-53.8	2.6	-4.9	-1.0	-1.12	0.0	0.0	0.0	6.7	42.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 120/121	CNEL	96.2	2	181.2	-56.2	3.3	-20.2	-0.6	-1.16	0.0	6.0	0.0	6.7	34.1
Motor & Pump P 211/212	CNEL	93.7		111.0	-51.9	2.2	-5.9	-0.7	-0.20	0.0	0.0	0.0	6.7	43.8
Motor & Pump P 215/214	CNEL	94.6		116.1	-52.3	2.3	-4.2	-0.9	-0.20	0.0	0.0	0.0	6.7	46.1
Motor & Pump P 216	CNEL	98.3		111.5	-51.9	2.2	0.0	-1.1	-0.46	0.0	0.0	0.0	6.7	53.6
Motor & Pump P 217/218	CNEL	93.7		112.9	-52.0	2.8	-5.0	-0.8	-0.22	0.0	0.0	0.0	6.7	45.0
Motor & Pump P 300	CNEL	97.1	2	183.4	-56.3	3.4	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.9
Motor & Pump P 301	CNEL	102.1	2	181.7	-56.2	3.4	0.0	-1.0	-1.04	0.0	0.0	0.0	6.7	53.9
Motor & Pump P 302	CNEL	97.1	2	185.2	-56.3	3.4	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.8
Motor & Pump P 303	CNEL	97.1	2	186.7	-56.4	3.3	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.7
Motor & Pump P 305	CNEL	97.5	2	188.2	-56.5	3.3	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	49.0
Motor & Pump P 306	CNEL	112.6	4	197.3	-56.9	3.0	-1.0	-1.7	-1.10	0.0	0.6	0.0	6.7	62.2
Motor & Pump P 307	CNEL	102.1	2	176.8	-55.9	3.3	0.0	-0.9	-1.04	0.0	0.0	0.0	6.7	54.1
Motor & Pump P 309	CNEL	97.5	2	189.7	-56.6	3.4	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.9
Motor & Pump P 312	CNEL	101.5	2	154.7	-54.8	3.2	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.7
Motor & Pump P 313	CNEL	101.5	2	152.9	-54.7	3.2	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.8
Motor & Pump P 315	CNEL	102.9	2	146.4	-54.3	2.9	0.0	-0.8	-1.03	0.0	0.0	0.0	6.7	56.3
Motor & Pump P 316	CNEL	102.9	2	144.4	-54.2	2.9	0.0	-0.8	-1.03	0.0	0.0	0.0	6.7	56.4
Motor & Pump P 317	CNEL	102.9	2	142.4	-54.1	2.7	0.0	-0.8	-1.03	0.0	0.0	0.0	6.7	56.5
Motor & Pump P 318	CNEL	100.2	1	148.4	-54.4	3.2	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.8
Motor & Pump P 319	CNEL	100.2	1	149.9	-54.5	3.3	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.8
Motor & Pump P 327	CNEL	111.2	3	205.3	-57.2	3.6	-14.0	-1.0	-1.06	0.0	0.1	0.0	6.7	48.3
Motor & Pump P 328	CNEL	109.9	5	191.5	-56.6	3.2	-1.0	-1.0	-1.05	0.0	0.1	0.0	6.7	60.2
Motor & Pump P 329	CNEL	110.2	5	194.4	-56.8	3.2	-1.0	-1.0	-1.02	0.0	0.2	0.0	6.7	60.5
Motor & Pump P 451	CNEL	93.7		117.1	-52.4	2.3	-8.0	-0.8	-0.44	0.0	0.0	0.0	6.7	41.0
Motor & Pump P 453	CNEL	93.7		106.7	-51.6	2.3	-4.8	-0.8	-0.04	0.0	0.0	0.0	6.7	45.5
Motor & Pump P 454	CNEL	93.7		117.2	-52.4	2.3	-14.3	-0.6	-0.58	0.0	0.1	0.0	6.7	34.9
Motor & Pump P 457	CNEL	93.7		105.2	-51.4	2.3	-3.7	-1.0	-0.01	0.0	0.0	0.0	6.7	46.5
Motor & Pump P 458	CNEL	93.7		117.4	-52.4	2.3	-15.2	-0.6	-0.36	0.0	0.0	0.0	6.7	34.2
Motor & Pump P 459	CNEL	93.7		118.1	-52.4	2.3	-14.3	-0.6	-0.60	0.0	0.1	0.0	6.7	34.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		148.8	-54.4	3.0	-17.7	-0.8	-0.10	0.0	0.0	0.0	6.7	32.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.4	-54.5	3.0	-7.8	-1.0		0.0	4.5	0.0	6.7	47.1
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.1	-56.3	3.5	-8.1	-1.1	-0.41	0.0	0.0	0.0	6.7	39.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.2	-56.4	3.5	-8.3	-1.1	-0.41	0.0	0.0	0.0	6.7	39.4
Motor & Pump P 1601 A	CNEL	96.3	2	160.0	-55.1	2.8	-7.9	-0.9		0.0	0.1	0.0	6.7	41.9
Motor & Pump P 1601 B	CNEL	96.3	2	160.7	-55.1	2.8	-8.4	-0.9		0.0	0.0	0.0	6.7	41.4
Motor & Pump P 1602 A	CNEL	96.3	2	161.0	-55.1	2.8	-6.7	-1.0		0.0	0.0	0.0	6.7	42.9
Motor & Pump P 1602 B	CNEL	96.5	2	161.7	-55.2	2.8	-15.0	-0.8		0.0	0.2	0.0	6.7	35.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.4	-54.6	3.1	0.0	-1.5	-0.07	0.0	0.0	0.0	6.7	50.2
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	156.9	-54.9	3.2	0.0	-1.5	-0.18	0.0	0.0	0.0	6.7	49.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.2	-55.0	3.2	0.0	-1.5	-0.23	0.0	0.0	0.0	6.7	49.7
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.0	-54.6	3.0	-10.0	-1.0	-0.01	0.0	0.1	0.0	6.7	40.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.7	-54.7	3.1	-8.5	-1.0	-0.03	0.0	0.0	0.0	6.7	42.2
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.4	-55.4	3.3	-6.0	-1.2	-0.36	0.0	0.7	0.0	6.7	44.1
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.6	-55.4	3.3	0.0	-1.6	-0.35	0.0	0.0	0.0	6.7	49.0
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.2	-55.3	3.3	0.0	-1.6	-0.34	0.0	0.1	0.0	6.7	49.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.7	-55.3	3.3	0.0	-1.6	-0.35	0.0	0.2	0.0	6.7	49.2
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	197.2	-56.9	3.1	-7.8	-0.8	-1.52	0.0	0.6	0.0	6.7	47.5
P-2 A/B	CNEL	98.5		370.1	-62.4	3.8	-9.1	-1.3		0.0	0.9	0.0	6.7	37.1
P-50 A/B	CNEL	98.1		331.4	-61.4	3.8	-22.6	-1.3	-0.22	0.0	0.0	0.0	6.7	23.0
P-51 A/B	CNEL	98.1		331.5	-61.4	3.8	-16.8	-1.2	-0.23	0.0	0.0	0.0	6.7	28.9
P-060 A/B	CNEL	98.1		331.1	-61.4	3.8	-22.5	-1.2	-2.69	0.0	0.6	0.0	6.7	21.5
P-63	CNEL	98.5		340.1	-61.6	3.7	-2.8	-2.2	-1.44	0.0	1.2	0.0	6.7	42.0
P-70 A/B	CNEL	98.1		331.2	-61.4	3.8	-22.0	-1.3	-1.75	0.0	0.0	0.0	6.7	22.2
P-73 A/B	CNEL	98.5		365.6	-62.3	3.8	-8.9	-1.4		0.0	2.5	0.0	6.7	39.0
P-251 A/B	CNEL	98.2		194.7	-56.8	3.4	0.0	-1.0	-0.20	0.0	0.0	0.0	6.7	50.3
P-252 A/B	CNEL	98.2		199.2	-57.0	3.5	0.0	-1.1	-1.06	0.0	0.1	0.0	6.7	49.4
P-253	CNEL	98.2		207.1	-57.3	3.6	0.0	-1.1	-1.23	0.0	0.1	0.0	6.7	48.9
P-254 A/B	CNEL	98.2		206.4	-57.3	3.5	0.0	-1.1	-0.45	0.0	0.0	0.0	6.7	49.6
P-255 A/B	CNEL	98.2		202.8	-57.1	3.5	0.0	-1.1	-0.37	0.0	0.0	0.0	6.7	49.8
P-255 A/B	CNEL	98.2		187.3	-56.4	3.4	0.0	-1.0	-0.04	0.0	0.0	0.0	6.7	50.8
P-256 A/B	CNEL	98.2		198.2	-56.9	3.4	0.0	-1.1	-0.27	0.0	0.0	0.0	6.7	50.1
P-259 A/B	CNEL	98.2		191.1	-56.6	3.4	0.0	-1.0	-0.12	0.0	0.0	0.0	6.7	50.5

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Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-260	CNEL	99.1		179.3	-56.1	3.4	0.0	-1.0	-0.63	0.0	0.0	0.0	6.7	51.5
P-261 A/B	CNEL	98.0		155.0	-54.8	3.2	0.0	-0.9	-0.10	0.0	0.1	0.0	6.7	52.2
P-262 A/B	CNEL	99.1		170.6	-55.6	3.4	0.0	-0.9	-0.44	0.0	0.0	0.0	6.7	52.1
P-263 A/B	CNEL	99.4		174.8	-55.8	3.4	0.0	-0.9	-0.53	0.0	0.0	0.0	6.7	52.2
P-270 A/B	CNEL	98.5		250.1	-59.0	3.7	0.0	-1.3	-0.99	0.0	2.2	0.0	6.7	49.9
P-271 A/B	CNEL	98.2		216.5	-57.7	3.5	0.0	-1.1	-0.66	0.0	0.2	0.0	6.7	49.1
P-272 A/B	CNEL	98.2		211.6	-57.5	3.5	0.0	-1.1	-0.56	0.0	0.1	0.0	6.7	49.4
P-273 A/B	CNEL	98.5		246.5	-58.8	3.7	0.0	-1.3	-0.91	0.0	1.9	0.0	6.7	49.7
P-275 A/B/C	CNEL	98.2		218.7	-57.8	3.6	0.0	-1.1	-1.48	0.0	0.0	0.0	6.7	48.1
P-305	CNEL	99.3		267.4	-59.5	3.3	-18.9	-0.8	-0.10	0.0	0.0	0.0	6.7	29.9
P-306	CNEL	100.8		277.2	-59.8	3.4	-18.5	-0.8	-0.33	0.0	0.0	0.0	6.7	31.4
P-309	CNEL	99.3		269.7	-59.6	3.4	-18.5	-0.8	-0.16	0.0	0.0	0.0	6.7	30.2
P-328	CNEL	100.8		283.0	-60.0	3.4	-17.7	-0.8	-0.47	0.0	0.0	0.0	6.7	31.9
P-329	CNEL	100.8		280.1	-59.9	3.4	-18.1	-0.8	-0.40	0.0	0.0	0.0	6.7	31.7
P-353	CNEL	98.5		267.6	-59.5	3.1	-1.9	-1.7	-0.14	0.0	0.0	0.0	6.7	45.0
P-358 A/B	CNEL	99.4		285.9	-60.1	3.7	-8.3	-1.0	-0.91	0.0	0.0	0.0	6.7	39.4
P-359 A/B	CNEL	99.4		286.1	-60.1	3.7	-7.2	-1.0	-0.91	0.0	0.3	0.0	6.7	40.8
P-360 A/B	CNEL	99.4		286.7	-60.1	3.6	0.0	-1.4	-0.58	0.0	0.0	0.0	6.7	47.5
P-361A	CNEL	98.1		331.0	-61.4	3.7	0.0	-1.6	-2.53	0.0	0.0	0.0	6.7	42.9
P-371 A/B	CNEL	98.0		136.2	-53.7	2.7	-16.0	-0.4		0.0	2.1	0.0	6.7	39.3
P-373 A/B	CNEL	98.0		150.6	-54.6	3.0	-3.4	-0.6		0.0	3.1	0.0	6.7	52.2
P-374 A/B	CNEL	98.0		147.8	-54.4	2.9	-4.5	-0.6		0.0	0.0	0.0	6.7	48.2
P-375 A/B	CNEL	98.0		141.7	-54.0	2.8	-8.4	-0.6		0.0	6.8	0.0	6.7	51.3
P-376	CNEL	98.0		146.0	-54.3	2.9	-4.5	-0.6		0.0	0.0	0.0	6.7	48.2
P-376 A/B	CNEL	98.0		153.8	-54.7	3.0	0.0	-0.8		0.0	2.3	0.0	6.7	54.4
P-377	CNEL	98.0		144.5	-54.2	2.9	-4.0	-0.6		0.0	0.0	0.0	6.7	48.8
P-1101 A	CNEL	98.9		359.6	-62.1	3.6	-10.3	-1.2		0.0	2.7	0.0	6.7	38.2
P-1103	CNEL	98.9		358.1	-62.1	3.6	-10.5	-1.2		0.0	2.7	0.0	6.7	38.2
P-1105 A/B/C	CNEL	98.9		365.2	-62.2	3.6	-9.8	-1.2		0.0	3.0	0.0	6.7	38.9
P-1800	CNEL	98.9		394.9	-62.9	3.8	-4.9	-1.9	-1.48	0.0	1.6	0.0	6.7	39.8
P-1801	CNEL	98.9		443.6	-63.9	3.9	-4.7	-2.1	-1.47	0.0	0.0	0.0	6.7	37.3
P-1802	CNEL	98.9		443.2	-63.9	3.9	-4.7	-2.1	-1.46	0.0	0.0	0.0	6.7	37.4
P-1803	CNEL	99.1		342.7	-61.7	4.0	-4.8	-1.7	-1.87	0.0	0.1	0.0	6.7	39.9
P-1804	CNEL	99.1		354.9	-62.0	4.0	-4.9	-1.7	-2.63	0.0	0.0	0.0	6.7	38.5
P-1805	CNEL	99.1		358.1	-62.1	4.0	-4.9	-1.7	-2.63	0.0	0.0	0.0	6.7	38.5
P-1806	CNEL	99.1		318.6	-61.1	4.0	0.0	-1.6	-1.69	0.0	1.6	0.0	6.7	47.1
P-1809 A	CNEL	98.9		406.2	-63.2	3.9	-9.8	-1.4	-1.52	0.0	4.9	0.0	6.7	38.5
P-1810 A/B/C	CNEL	99.0		361.2	-62.1	4.1	-4.8	-1.8	-2.74	0.0	0.0	0.0	6.7	38.3
P-1811 A/B	CNEL	99.1		325.4	-61.2	4.0	0.0	-1.6	-1.69	0.0	0.0	0.0	6.7	45.3
P-1811 A/B	CNEL	99.1		362.0	-62.2	4.0	-4.4	-1.7	-2.63	0.0	0.1	0.0	6.7	39.0
P-1847 A/B	CNEL	99.4		346.7	-61.8	4.3	0.0	-1.7		0.0	0.6	0.0	6.7	47.5
P-1849 A/B	CNEL	99.4		353.1	-62.0	4.3	0.0	-1.7		0.0	0.7	0.0	6.7	47.4
P-1853	CNEL	99.1		218.9	-57.8	3.2	-4.3	-1.3		0.0	0.0	0.0	6.7	45.6
Piping Furnace Tanks	CNEL	87.1	72	213.0	-57.6	2.2	-0.2	-7.0		0.0	2.1	0.0	6.7	33.2
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	193.9	-56.7	2.1	-0.6	-6.5		0.0	1.0	0.0	6.7	44.4
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	191.5	-56.6	2.4	-22.7	-1.5		0.0	1.5	0.0	6.7	44.3
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	192.0	-56.7	2.4	-23.4	-4.8		0.0	1.6	0.0	6.7	41.1
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	431.7	-63.7	3.0	-21.8	-1.6		0.0	0.1	0.0	6.7	33.2
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	412.2	-63.3	2.9	-13.1	-1.4		0.0	1.0	0.0	6.7	44.0
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	383.6	-62.7	2.8	-8.8	-1.4		0.0	0.2	0.0	6.7	40.9
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	404.7	-63.1	2.7	-2.4	-1.8		0.0	0.0	0.0	6.7	53.2
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	380.2	-62.6	2.5	0.0	-1.8		0.0	1.4	0.0	6.7	50.2
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	389.1	-62.8	2.8	-5.2	-1.7		0.0	0.0	0.0	6.7	43.5
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	377.4	-62.5	2.7	0.0	-1.8		0.0	0.0	0.0	6.7	51.8
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	383.4	-62.7	2.7	-3.8	-1.8	-0.06	0.0	0.5	0.0	6.7	47.7
Pre-Treat Train-Roof 01	CNEL	113.1	2037	406.1	-63.2	1.7	-4.9	-1.9		0.0	0.0	0.0	6.7	51.6
PSA Pipe 3" Lagging	CNEL	80.6	11	203.9	-57.2	2.1	-3.0	-1.9		0.0	0.9	0.0	6.7	28.2
PSA Skid Additional Piping w NC	CNEL	116.6	57	189.6	-56.5	2.4	-22.5	-1.5		0.0	1.3	0.0	6.7	46.4
Reformer-Burner Reformer East	CNEL	97.3	269	235.5	-58.4	2.1	-17.9	-1.0		0.0	6.9	0.0	6.7	38.6
Reformer-Burner Reformer North	CNEL	95.9	192	223.9	-58.0	2.1	-0.7	-1.8		0.0	1.4	0.0	6.7	45.6
Reformer-Burner Reformer South	CNEL	95.8	191	238.9	-58.6	2.1	-18.5	-1.0		0.0	1.1	0.0	6.7	30.6
Reformer-Burner Reformer West	CNEL	97.3	268	226.9	-58.1	2.1	-0.8	-1.8		0.0	2.0	0.0	6.7	50.3
RFG A from battery to process	CNEL	99.4	87	199.0	-57.0	2.2	-0.9	-6.6		0.0	0.9	0.0	6.7	44.7
RFG A from battery to process w NC	CNEL	115.2	42	194.1	-56.8	2.4	-22.8	-4.6		0.0	1.8	0.0	6.7	41.9
Stack Noise	CNEL	108.4		263.8	-59.4	1.6	-0.6	-2.1		-7.4	0.0	0.0	6.7	47.2
Steam Turbine-Facade 01	CNEL	99.6	29	173.3	-55.8	2.9	-12.7	-2.0		0.0	0.3	0.0	6.7	39.1

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Steam Turbine-Facade 02	CNEL	96.2	13	177.4	-56.0	3.0	-19.0	-2.1		0.0	1.0	0.0	6.7	29.9	
Steam Turbine-Facade 03	CNEL	99.6	29	176.0	-55.9	3.0	-22.7	-2.7		0.0	4.6	0.0	6.7	32.6	
Steam Turbine-Facade 04	CNEL	96.2	13	171.9	-55.7	2.9	-16.1	-1.6		0.0	1.4	0.0	6.7	33.9	
Steam Turbine-Roof 01	CNEL	99.7	30	174.6	-55.8	2.3	-13.5	-1.8		0.0	1.1	0.0	6.7	38.7	
Tank Farm Pump 1	CNEL	99.0	3	341.5	-61.7	4.1	-3.9	-2.3		0.0	0.0	0.0	6.7	41.9	
Tank Farm Pump 2	CNEL	99.0	3	361.8	-62.2	4.2	-4.1	-2.5		0.0	0.0	0.0	6.7	41.1	
Tank Farm Pump 3	CNEL	99.0	3	367.4	-62.3	4.2	-4.1	-2.5		0.0	0.0	0.0	6.7	41.0	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	121.2	-52.7	1.2	-0.2	-1.8		0.0	0.5	-13.8	0.0	45.7	
XF-1502 Splitter Area 1	CNEL	104.5		161.6	-55.2	2.0	0.0	-1.2	-0.26	-4.4	0.0	0.0	6.7	52.2	
XF-1502 Splitter Area 2	CNEL	104.5		158.0	-55.0	2.0	0.0	-1.2	-0.18	-4.4	0.0	0.0	6.7	52.5	
XF-1504 Splitter Area 1	CNEL	104.5		163.1	-55.2	2.0	0.0	-1.2	-0.27	-4.4	0.0	0.0	6.7	52.0	
XF-1504 Splitter Area 2	CNEL	104.5		159.6	-55.1	2.0	-4.6	-1.0	0.00	-4.0	0.0	0.0	6.7	48.5	
XF 251, 250, 271, 270	CNEL	101.1	128	217.0	-57.7	0.9	0.0	-0.9		-3.3	0.0	0.0	6.7	46.7	
XF 260, 261A, 261 B	CNEL	99.9	97	164.6	-55.3	0.9	0.0	-0.7	-0.22	-3.3	0.1	0.0	6.7	47.9	
XF 304, XF 321	CNEL	110.5	56	180.9	-56.1	1.5	-0.7	-0.9	-1.29	-3.4	0.2	0.0	6.7	56.4	
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	1.8	-3.9	-1.1	-1.71	-4.1	0.0	0.0	6.7	53.2	
XF 335-1, XF 335-2	CNEL	113.4	54	193.1	-56.7	1.7	-4.5	-0.9	-1.44	-3.0	0.3	0.0	6.7	55.5	
XF 353A/B	CNEL	95.4	35	293.3	-60.3	0.9	-0.1	-1.2	-0.05	-3.4	0.0	0.0	6.7	38.0	
XF 353A/B	CNEL	95.4	35	280.6	-60.0	1.0	0.0	-1.1	-0.02	-3.3	0.0	0.0	6.7	38.7	
XF 354A/B	CNEL	95.4	35	266.3	-59.5	0.7	-0.2	-1.1	-0.01	-3.5	0.0	0.0	6.7	38.4	
XF 503	CNEL	113.0	21	129.9	-53.3	1.7	0.0	-2.1	-0.99	-4.1	0.4	0.0	6.7	61.4	
XF - 1601	CNEL	96.6		160.2	-55.1	1.7	-0.1	-0.6		-2.9	0.0	0.0	6.7	46.3	
XF - 1602	CNEL	96.6		163.1	-55.2	1.7	-0.5	-0.7		-3.4	0.0	0.0	6.7	45.2	
XF Module 1510	CNEL	108.3		152.5	-54.7	2.0	0.0	-1.1	-0.10	-4.4	0.0	0.0	6.7	56.7	
XF Module 1519	CNEL	109.0		157.6	-54.9	2.0	0.0	-1.2	-0.12	-4.4	0.0	0.0	6.7	57.1	
xxxx xxxx xxxx xxxx	CNEL		606								3.1			26.7	
xxxx xxxx xxxx xxxx	CNEL		606								2.9			26.6	
xxxx xxxx xxxx xxxx	CNEL		917								1.8			33.3	
xxxx xxxx xxxx xxxx	CNEL		917								1.0			32.5	
xxxx xxxx xxxx xxxx	CNEL		608								2.5			37.4	
xxxx xxxx xxxx xxxx	CNEL		608								2.4			36.9	
xxxx xxxx xxxx xxxx	CNEL		228								2.0			32.2	
xxxx xxxx xxxx xxxx	CNEL		520								1.1			36.6	
xxxx xxxx xxxx xxxx	CNEL		1341								3.4			44.4	
xxxx xxxx xxxx xxxx	CNEL		450								3.3			29.9	
Receiver SS-1 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.5 dB(A) Ld 7-19 dB(A) Leq,N 67.0 dB(A) Le 19-22 dB(A) CNEL 73.8 dB(A) Lmax day hr dB(A) Ld 7-															
ID Fan Motor	CNEL	104.4	2	259.5	-59.3	3.0	-15.2	-1.2		0.0	0.0	0.0	6.7	38.4	
18-1855 A/B	CNEL	98.8		217.9	-57.8	2.9	0.0	-1.1		0.0	0.0	0.0	6.7	49.5	
18-1856 A/B	CNEL	98.8		224.6	-58.0	3.0	0.0	-1.1		0.0	0.0	0.0	6.7	49.3	
18-1857 A/B	CNEL	98.8		211.4	-57.5	2.8	-3.7	-0.9		0.0	0.4	0.0	6.7	46.7	
18-1858 A/B	CNEL	98.8		206.8	-57.3	2.6	-4.6	-0.8		0.0	0.5	0.0	6.7	45.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		228.8	-58.2	3.3	0.0	-0.7		0.0	0.0	0.0	6.7	54.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	90.7	-50.1	1.4	-0.1	-1.8		0.0	0.2	-4.8	1.0	54.8	
Air Compressor C 1	CNEL	110.0	5	194.2	-56.8	2.7	-13.3	-0.3	-1.13	0.0	3.1	0.0	6.7	50.9	
Air Compressor Pump	CNEL	100.3		143.3	-54.1	2.5	-15.3	-1.2		0.0	11.9	0.0	6.7	50.8	
Blower F 401	CNEL	113.0		84.2	-49.5	1.1	-13.0	-0.1		0.0	0.2	0.0	6.7	58.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.6	-0.6	-1.4		0.0	0.0	0.0	6.7	45.6	
Boiler Feed Water Pump A	CNEL	97.1	3	232.3	-58.3	3.0	-3.9	-1.3		0.0	0.0	0.0	6.7	43.3	
Boiler Feed Water Pump B	CNEL	97.1	3	231.2	-58.3	2.9	-4.0	-1.3		0.0	0.0	0.0	6.7	43.2	
C370 A Motor	CNEL	103.6	3	165.0	-55.3	2.6	-5.1	-1.1		0.0	0.0	0.0	6.7	51.4	
C370 B Motor	CNEL	108.6	3	173.5	-55.8	2.6	-5.3	-1.1		0.0	0.5	0.0	6.7	56.2	
C370A	CNEL	103.8	5	167.8	-55.5	2.6	-2.8	-1.1		0.0	0.0	0.0	6.7	53.7	
C370B	CNEL	103.8	5	176.2	-55.9	2.6	-4.7	-1.2		0.0	0.2	0.0	6.7	51.5	
C-270 A	CNEL	106.3	6	252.7	-59.0	2.3	-2.3	-1.6	-0.15	0.0	1.2	0.0	6.7	53.4	
C-270 B	CNEL	106.3	6	247.8	-58.9	2.3	-3.1	-1.5	-0.04	0.0	1.2	0.0	6.7	52.9	
C-270 C	CNEL	106.3	6	242.9	-58.7	2.3	-4.4	-1.5		0.0	1.2	0.0	6.7	51.9	
C-301 Compressor	CNEL	106.8	3	268.9	-59.6	2.5	0.0	-1.8	-1.34	0.0	0.1	0.0	6.7	53.4	
C-301 Motor	CNEL	106.8	4	265.1	-59.5	2.5	0.0	-2.6	-1.31	0.0	0.2	0.0	6.7	52.9	
C-351 Compressor	CNEL	106.8	4	271.5	-59.7	2.5	0.0	-1.8	-1.39	0.0	0.0	0.0	6.7	53.1	
C-351 Motor	CNEL	106.8	5	271.6	-59.7	2.4	-3.0	-2.6	-0.68	0.0	0.0	0.0	6.7	49.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	89.3	-50.0	0.9	-0.3	-0.3		0.0	0.3	-35.6	0.0	49.8	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.1	-52.9	2.1	-9.7	-0.6	-0.56	3.5	2.0	0.0	6.7	55.2	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	128.9	-53.2	2.3	-0.9	-1.1	-0.60	0.0	0.0	0.0	6.7	53.7	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	133.0	-53.5	2.1	-15.0	-0.4	-0.18	-7.8	6.4	0.0	6.7	44.9	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.0	-52.8	2.0	-9.9	-0.6		0.0	0.0	0.0	6.7	56.0	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.4	-53.0	2.1	-8.4	-0.6	-0.59	-0.5	0.0	0.0	6.7	49.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.8	-53.3	2.1	-10.9	-0.4		-4.0	5.6	0.0	6.7	46.2	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.1	-54.0	2.5	-12.2	-0.5		-6.2	3.2	0.0	6.7	37.3
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	136.0	-53.7	2.4	0.0	-1.0		4.1	0.0	0.0	6.7	56.3
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.5	-54.7	2.4	-15.4	-0.4		-7.2	4.6	0.0	6.7	36.6
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.1	-54.1	2.4	-4.4	-0.9		3.4	0.0	0.0	6.7	53.8
Cooling Tower M 512	CNEL	95.7		132.6	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2
Cooling Tower M 513	CNEL	95.7		131.8	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2
Cooling Tower M 514	CNEL	95.7		133.1	-53.5	2.6	-2.1	-0.7		0.0	3.3	0.0	6.7	52.1
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	235.1	-58.4	2.4	-1.7	-1.2		-3.5	2.0	0.0	6.7	42.0
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	254.2	-59.1	2.8	-10.8	-0.1		0.0	0.0	0.0	6.7	34.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	254.5	-59.1	2.7	-12.1	-0.1		0.0	0.5	0.0	6.7	31.7
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	253.1	-59.1	2.6	-10.1	-0.1		0.0	0.0	0.0	6.7	33.5
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	251.9	-59.0	2.6	-8.7	-0.1		0.0	0.1	0.0	6.7	34.8
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	252.1	-59.0	2.7	-9.4	-0.1		0.0	0.2	0.0	6.7	36.4
FD Motor	CNEL	103.3	2	255.2	-59.1	3.0	-20.7	-1.6		0.0	0.0	0.0	6.7	31.5
Feed Compressor -B Motor	CNEL	103.8	5	195.9	-56.8	2.6	-5.3	-1.9		0.0	0.0	0.0	6.7	49.1
Feed Compressor-A Compressor	CNEL	104.0	5	185.9	-56.4	2.6	-9.4	-0.8		0.0	0.0	0.0	6.7	46.7
Feed Compressor-A Motor	CNEL	103.8	6	183.5	-56.3	2.6	-6.8	-1.5		0.0	0.0	0.0	6.7	48.5
Feed Compressor-B Compressor	CNEL	104.0	7	198.5	-56.9	2.6	-5.2	-1.3		0.0	0.4	0.0	6.7	50.2
H2S Compressor 18-C-271	CNEL	105.3	6	158.9	-55.0	2.6	-4.6	-0.9	-1.08	0.0	2.8	0.0	6.7	55.8
Heater # 5-Heater	CNEL	91.1	13	288.2	-60.2	2.7	-11.0	-0.6		0.0	0.0	0.0	6.7	31.7
Heater # 5-Heater	CNEL	91.1	13	283.2	-60.0	2.6	-7.0	-0.9		0.0	0.0	0.0	6.7	35.5
Heater # 5-Heater	CNEL	91.1	13	293.1	-60.3	2.7	-13.3	-0.6		0.0	0.0	0.0	6.7	29.2
Hydro Heater H-402	CNEL	98.1		123.6	-52.8	2.5	-10.2	-0.2	-0.76	0.0	0.0	0.0	6.7	43.3
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	259.3	-59.3	3.1	-9.4	0.0		0.0	0.0	0.0	6.7	28.1
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	258.0	-59.2	3.1	-5.5	-0.1		0.0	0.0	0.0	6.7	32.2
ID Fan-ID Fan - North	CNEL	92.2	8	258.4	-59.2	3.1	-9.3	0.0		0.0	0.0	0.0	6.7	33.3
ID Fan-ID Fan - North 2	CNEL	91.4	7	260.0	-59.3	3.1	-8.5	-0.1		0.0	0.0	0.0	6.7	33.3
ID Fan-ID Fan - South	CNEL	92.3	9	256.6	-59.2	3.0	-2.9	-0.1		0.0	0.0	0.0	6.7	39.9
ID Fan-ID Fan - South 2	CNEL	91.4	7	259.2	-59.3	3.1	-4.5	-0.1		0.0	0.0	0.0	6.7	37.3
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	258.0	-59.2	2.7	-4.7	-0.1		0.0	0.0	0.0	6.7	39.4
Motor & Pump P 56A/B	CNEL	93.7		137.7	-53.8	2.6	-3.7	-1.2	-1.11	0.0	0.0	0.0	6.7	43.2
Motor & Pump P 120/121	CNEL	96.2	2	181.3	-56.2	2.6	-19.8	-0.6	-1.17	0.0	6.5	0.0	6.7	34.3
Motor & Pump P 211/212	CNEL	93.7		111.1	-51.9	2.5	-5.8	-0.7	-0.20	0.0	0.0	0.0	6.7	44.1
Motor & Pump P 215/214	CNEL	94.6		116.2	-52.3	2.5	-4.1	-0.9	-0.21	0.0	0.0	0.0	6.7	46.3
Motor & Pump P 216	CNEL	98.3		111.6	-51.9	2.4	0.0	-1.1	-0.46	0.0	0.0	0.0	6.7	53.9
Motor & Pump P 217/218	CNEL	93.7		113.0	-52.1	2.5	-4.9	-0.8	-0.22	0.0	0.0	0.0	6.7	44.8
Motor & Pump P 300	CNEL	97.1	2	183.4	-56.3	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.1
Motor & Pump P 301	CNEL	102.1	2	181.7	-56.2	2.6	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.2
Motor & Pump P 302	CNEL	97.1	2	185.2	-56.3	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.0
Motor & Pump P 303	CNEL	97.1	2	186.7	-56.4	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.0
Motor & Pump P 305	CNEL	97.5	2	188.2	-56.5	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.3
Motor & Pump P 306	CNEL	112.6	4	197.4	-56.9	2.6	-1.0	-1.6	-1.12	0.0	0.5	0.0	6.7	61.9
Motor & Pump P 307	CNEL	102.1	2	176.9	-55.9	2.6	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.5
Motor & Pump P 309	CNEL	97.5	2	189.7	-56.6	2.6	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.2
Motor & Pump P 312	CNEL	101.5	2	154.8	-54.8	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.1
Motor & Pump P 313	CNEL	101.5	2	153.0	-54.7	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.2
Motor & Pump P 315	CNEL	102.9	2	146.5	-54.3	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.0
Motor & Pump P 316	CNEL	102.9	2	144.5	-54.2	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.1
Motor & Pump P 317	CNEL	102.9	2	142.5	-54.1	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.3
Motor & Pump P 318	CNEL	100.2	1	148.5	-54.4	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.2
Motor & Pump P 319	CNEL	100.2	1	150.0	-54.5	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	53.1
Motor & Pump P 327	CNEL	111.2	3	205.4	-57.2	2.8	-13.9	-1.0	-1.06	0.0	0.1	0.0	6.7	47.5
Motor & Pump P 328	CNEL	109.9	5	191.5	-56.6	2.6	-1.0	-1.0	-1.05	0.0	0.1	0.0	6.7	59.7
Motor & Pump P 329	CNEL	110.2	5	194.4	-56.8	2.6	-1.0	-0.9	-1.03	0.0	0.2	0.0	6.7	59.9
Motor & Pump P 451	CNEL	93.7		117.2	-52.4	2.5	-6.0	-0.9	-0.43	0.0	0.0	0.0	6.7	43.2
Motor & Pump P 453	CNEL	93.7		106.8	-51.6	2.5	-4.4	-0.8	-0.04	0.0	0.0	0.0	6.7	46.0
Motor & Pump P 454	CNEL	93.7		117.3	-52.4	2.5	-14.1	-0.6	-0.58	0.0	0.1	0.0	6.7	35.3
Motor & Pump P 457	CNEL	93.7		105.3	-51.4	2.5	-3.5	-1.0	-0.01	0.0	0.0	0.0	6.7	47.0
Motor & Pump P 458	CNEL	93.7		117.5	-52.4	2.5	-14.5	-0.6	-0.36	0.0	0.0	0.0	6.7	35.1
Motor & Pump P 459	CNEL	93.7		118.2	-52.4	2.5	-14.2	-0.6	-0.60	0.0	0.1	0.0	6.7	35.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		148.9	-54.4	2.6	-17.6	-0.8	-0.10	0.0	0.0	0.0	6.7	32.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.5	-54.5	2.6	-7.7	-1.0		0.0	4.3	0.0	6.7	46.7
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.1	-56.3	2.7	-7.1	-1.1	-0.41	0.0	0.0	0.0	6.7	39.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.2	-56.4	2.7	-7.5	-1.1	-0.42	0.0	0.0	0.0	6.7	39.3
Motor & Pump P 1601 A	CNEL	96.3	2	160.0	-55.1	2.7	-6.2	-1.0		0.0	0.0	0.0	6.7	43.4
Motor & Pump P 1601 B	CNEL	96.3	2	160.7	-55.1	2.7	-6.4	-1.0		0.0	0.0	0.0	6.7	43.2
Motor & Pump P 1602 A	CNEL	96.3	2	161.1	-55.1	2.7	-4.9	-1.3		0.0	0.0	0.0	6.7	44.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1602 B	CNEL	96.5	2	161.8	-55.2	2.7	-14.8	-0.8		0.0	0.1	0.0	6.7	35.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.4	-54.7	2.7	0.0	-1.5	-0.07	0.0	0.0	0.0	6.7	49.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	157.0	-54.9	2.7	0.0	-1.5	-0.18	0.0	0.0	0.0	6.7	49.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.3	-55.0	2.7	0.0	-1.5	-0.24	0.0	0.0	0.0	6.7	49.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.1	-54.6	2.6	-8.3	-1.0	-0.02	0.0	0.0	0.0	6.7	42.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.8	-54.7	2.7	-6.6	-1.1	-0.03	0.0	0.0	0.0	6.7	43.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.5	-55.4	2.7	-5.5	-1.2	-0.37	0.0	1.1	0.0	6.7	44.3
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.6	-55.4	2.7	0.0	-1.6	-0.35	0.0	0.0	0.0	6.7	48.4
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.2	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.2	0.0	6.7	48.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.8	-55.3	2.7	0.0	-1.6	-0.35	0.0	0.3	0.0	6.7	48.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	197.2	-56.9	2.7	-4.1	-1.0	-1.53	0.0	0.4	0.0	6.7	50.3
P-2 A/B	CNEL	98.5		370.1	-62.4	3.9	-9.0	-1.3		0.0	1.3	0.0	6.7	37.7
P-50 A/B	CNEL	98.1		331.4	-61.4	3.8	-22.4	-1.2	-0.22	0.0	0.0	0.0	6.7	23.4
P-51 A/B	CNEL	98.1		331.6	-61.4	3.8	-16.6	-1.1	-0.23	0.0	0.0	0.0	6.7	29.3
P-060 A/B	CNEL	98.1		331.1	-61.4	3.9	-19.3	-1.4	-1.73	0.0	0.2	0.0	6.7	25.0
P-63	CNEL	98.5		340.1	-61.6	3.7	-0.2	-1.7	-1.47	0.0	1.0	0.0	6.7	44.9
P-70 A/B	CNEL	98.1		331.2	-61.4	3.8	-21.7	-1.2	-1.72	0.0	0.0	0.0	6.7	22.6
P-73 A/B	CNEL	98.5		365.6	-62.3	3.9	-8.7	-1.3		0.0	2.9	0.0	6.7	39.6
P-251 A/B	CNEL	98.2		194.8	-56.8	2.8	0.0	-1.0	-0.20	0.0	0.0	0.0	6.7	49.7
P-252 A/B	CNEL	98.2		199.3	-57.0	2.9	0.0	-1.0	-1.07	0.0	0.0	0.0	6.7	48.7
P-253	CNEL	98.2		207.2	-57.3	3.0	0.0	-1.1	-1.24	0.0	0.0	0.0	6.7	48.3
P-254 A/B	CNEL	98.2		206.4	-57.3	3.0	0.0	-1.1	-0.45	0.0	0.0	0.0	6.7	49.1
P-255 A/B	CNEL	98.2		202.9	-57.1	2.9	0.0	-1.0	-0.38	0.0	0.0	0.0	6.7	49.3
P-255 A/B	CNEL	98.2		187.3	-56.4	2.7	0.0	-1.0	-0.04	0.0	0.0	0.0	6.7	50.1
P-256 A/B	CNEL	98.2		198.3	-56.9	2.9	0.0	-1.0	-0.28	0.0	0.0	0.0	6.7	49.5
P-259 A/B	CNEL	98.2		191.2	-56.6	2.8	0.0	-1.0	-0.12	0.0	0.0	0.0	6.7	49.9
P-260	CNEL	99.1		179.4	-56.1	2.7	0.0	-0.9	-0.64	0.0	0.0	0.0	6.7	50.8
P-261 A/B	CNEL	98.0		155.1	-54.8	2.5	0.0	-0.8	-0.11	0.0	0.0	0.0	6.7	51.4
P-262 A/B	CNEL	99.1		170.6	-55.6	2.5	0.0	-0.9	-0.45	0.0	0.0	0.0	6.7	51.3
P-263 A/B	CNEL	99.4		174.9	-55.8	2.6	0.0	-0.9	-0.54	0.0	0.0	0.0	6.7	51.4
P-270 A/B	CNEL	98.5		250.2	-59.0	3.4	0.0	-1.2	-1.00	0.0	2.2	0.0	6.7	49.6
P-271 A/B	CNEL	98.2		216.5	-57.7	3.1	0.0	-1.1	-0.67	0.0	0.1	0.0	6.7	48.6
P-272 A/B	CNEL	98.2		211.6	-57.5	3.0	0.0	-1.1	-0.56	0.0	0.1	0.0	6.7	48.9
P-273 A/B	CNEL	98.5		246.5	-58.8	3.4	0.0	-1.2	-0.92	0.0	1.8	0.0	6.7	49.4
P-275 A/B/C	CNEL	98.2		218.8	-57.8	3.2	0.0	-1.1	-1.49	0.0	0.0	0.0	6.7	47.6
P-305	CNEL	99.3		267.4	-59.5	3.2	-18.3	-0.8	-0.10	0.0	0.0	0.0	6.7	30.5
P-306	CNEL	100.8		277.2	-59.8	3.3	-17.6	-0.8	-0.34	0.0	0.0	0.0	6.7	32.2
P-309	CNEL	99.3		269.8	-59.6	3.3	-17.9	-0.8	-0.16	0.0	0.0	0.0	6.7	30.8
P-328	CNEL	100.8		283.0	-60.0	3.4	-6.8	-1.1	-0.46	0.0	0.0	0.0	6.7	42.5
P-329	CNEL	100.8		280.2	-59.9	3.3	-7.3	-1.0	-0.40	0.0	0.0	0.0	6.7	42.1
P-353	CNEL	98.5		267.6	-59.5	3.0	-0.1	-1.4	-0.15	0.0	0.0	0.0	6.7	47.0
P-358 A/B	CNEL	99.4		285.9	-60.1	3.6	-8.1	-0.9	-0.92	0.0	0.0	0.0	6.7	39.7
P-359 A/B	CNEL	99.4		286.2	-60.1	3.6	-5.4	-1.0	-0.91	0.0	0.4	0.0	6.7	42.6
P-360 A/B	CNEL	99.4		286.7	-60.1	3.5	0.0	-1.4	-0.59	0.0	0.0	0.0	6.7	47.5
P-361A	CNEL	98.1		331.0	-61.4	3.6	0.0	-1.6	-2.55	0.0	0.0	0.0	6.7	42.9
P-371 A/B	CNEL	98.0		136.3	-53.7	2.6	-15.8	-0.4		0.0	2.2	0.0	6.7	39.6
P-373 A/B	CNEL	98.0		150.7	-54.6	2.6	-2.3	-0.7		0.0	0.0	0.0	6.7	49.7
P-374 A/B	CNEL	98.0		147.9	-54.4	2.6	-3.0	-0.7		0.0	0.0	0.0	6.7	49.2
P-375 A/B	CNEL	98.0		141.8	-54.0	2.6	-8.4	-0.5		0.0	6.4	0.0	6.7	50.8
P-376	CNEL	98.0		146.1	-54.3	2.6	-3.0	-0.7		0.0	0.0	0.0	6.7	49.4
P-376 A/B	CNEL	98.0		153.9	-54.7	2.6	0.0	-0.8		0.0	1.7	0.0	6.7	53.4
P-377	CNEL	98.0		144.5	-54.2	2.6	-2.6	-0.7		0.0	0.0	0.0	6.7	49.8
P-1101 A	CNEL	98.9		359.6	-62.1	3.7	-10.0	-1.1		0.0	2.6	0.0	6.7	38.6
P-1103	CNEL	98.9		358.1	-62.1	3.7	-10.2	-1.1		0.0	2.7	0.0	6.7	38.5
P-1105 A/B/C	CNEL	98.9		365.2	-62.2	3.7	-9.6	-1.1		0.0	2.8	0.0	6.7	39.2
P-1800	CNEL	98.9		395.0	-62.9	3.9	-4.8	-1.8	-1.49	0.0	2.0	0.0	6.7	40.4
P-1801	CNEL	98.9		443.6	-63.9	4.1	-4.7	-2.0	-1.48	0.0	0.0	0.0	6.7	37.5
P-1802	CNEL	98.9		443.2	-63.9	4.1	-4.7	-2.0	-1.48	0.0	0.0	0.0	6.7	37.6
P-1803	CNEL	99.1		342.8	-61.7	4.0	0.0	-1.6	-1.88	0.0	0.0	0.0	6.7	44.6
P-1804	CNEL	99.1		355.0	-62.0	4.0	-4.4	-1.6	-2.65	0.0	0.0	0.0	6.7	39.1
P-1805	CNEL	99.1		358.1	-62.1	4.0	-4.5	-1.6	-2.65	0.0	0.0	0.0	6.7	38.9
P-1806	CNEL	99.1		318.6	-61.1	3.9	0.0	-1.5	-1.70	0.0	1.6	0.0	6.7	46.9
P-1809 A	CNEL	98.9		406.3	-63.2	4.0	-7.1	-1.5	-1.43	0.0	3.4	0.0	6.7	39.7
P-1810 A/B/C	CNEL	99.0		361.3	-62.1	4.1	-4.8	-1.7	-2.76	0.0	0.0	0.0	6.7	38.4
P-1811 A/B	CNEL	99.1		325.5	-61.2	3.9	0.0	-1.6	-1.70	0.0	0.0	0.0	6.7	45.2
P-1811 A/B	CNEL	99.1		362.0	-62.2	4.0	-4.3	-1.6	-2.66	0.0	0.1	0.0	6.7	39.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
P-1847 A/B	CNEL	99.4		346.8	-61.8	4.1	0.0	-1.6		0.0	0.7	0.0	6.7	47.5	
P-1849 A/B	CNEL	99.4		353.2	-62.0	4.1	0.0	-1.7		0.0	0.7	0.0	6.7	47.3	
P-1853	CNEL	99.1		219.0	-57.8	2.9	-0.9	-1.3		0.0	0.0	0.0	6.7	48.7	
Piping Furnace Tanks	CNEL	87.1	72	213.0	-57.6	2.5	0.0	-6.6		0.0	0.7	0.0	6.7	32.8	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	193.9	-56.7	2.5	-0.4	-6.2		0.0	0.0	0.0	6.7	44.2	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	191.5	-56.6	2.7	-21.6	-1.4		0.0	0.8	0.0	6.7	45.0	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	192.1	-56.7	2.7	-22.7	-4.6		0.0	1.1	0.0	6.7	41.7	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	431.7	-63.7	3.1	-21.4	-1.5		0.0	0.1	0.0	6.7	33.8	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	412.1	-63.3	3.1	-13.0	-1.3		0.0	1.8	0.0	6.7	45.1	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	383.6	-62.7	2.9	-8.7	-1.3		0.0	0.2	0.0	6.7	41.2	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	404.7	-63.1	2.9	-2.3	-1.7		0.0	0.0	0.0	6.7	53.5	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	380.1	-62.6	2.5	0.0	-1.8		0.0	1.4	0.0	6.7	50.2	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	389.1	-62.8	2.9	-5.2	-1.6		0.0	0.0	0.0	6.7	43.7	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	377.4	-62.5	2.9	0.0	-1.8		0.0	0.0	0.0	6.7	52.0	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	383.4	-62.7	2.8	-3.8	-1.7	0.00	0.0	0.4	0.0	6.7	47.9	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	406.1	-63.2	2.3	-4.9	-1.8		0.0	0.0	0.0	6.7	52.2	
PSA Pipe 3" Lagging	CNEL	80.6	11	203.8	-57.2	2.4	-2.6	-2.0		0.0	0.0	0.0	6.7	27.9	
PSA Skid Additional Piping w NC	CNEL	116.6	57	189.6	-56.5	2.7	-21.4	-1.4		0.0	0.7	0.0	6.7	47.3	
Reformer-Burner Reformer East	CNEL	97.3	269	235.5	-58.4	2.5	-17.8	-1.0		0.0	7.3	0.0	6.7	39.4	
Reformer-Burner Reformer North	CNEL	95.9	192	223.8	-58.0	2.5	0.0	-1.7		0.0	0.0	0.0	6.7	45.3	
Reformer-Burner Reformer South	CNEL	95.8	191	238.8	-58.6	2.5	-18.4	-1.0		0.0	1.0	0.0	6.7	31.0	
Reformer-Burner Reformer West	CNEL	97.3	268	226.9	-58.1	2.5	-0.1	-1.7		0.0	0.0	0.0	6.7	49.5	
RFG A from battery to process	CNEL	99.4	87	199.0	-57.0	2.5	-0.5	-6.3		0.0	0.0	0.0	6.7	44.8	
RFG A from battery to process w NC	CNEL	115.2	42	194.1	-56.8	2.7	-21.8	-4.4		0.0	1.2	0.0	6.7	42.7	
Stack Noise	CNEL	108.4		263.6	-59.4	2.4	-0.5	-1.8		-7.1	0.0	0.0	6.7	48.6	
Steam Turbine-Facade 01	CNEL	99.6	29	173.3	-55.8	2.7	-12.4	-1.9		0.0	0.2	0.0	6.7	39.2	
Steam Turbine-Facade 02	CNEL	96.2	13	177.4	-56.0	2.7	-18.7	-1.9		0.0	0.7	0.0	6.7	29.7	
Steam Turbine-Facade 03	CNEL	99.6	29	176.0	-55.9	2.7	-22.4	-2.4		0.0	5.0	0.0	6.7	33.3	
Steam Turbine-Facade 04	CNEL	96.2	13	172.0	-55.7	2.7	-15.5	-1.5		0.0	1.4	0.0	6.7	34.3	
Steam Turbine-Roof 01	CNEL	99.7	30	174.6	-55.8	2.7	-12.9	-1.7		0.0	1.1	0.0	6.7	39.7	
Tank Farm Pump 1	CNEL	99.0	3	341.5	-61.7	3.9	-3.0	-2.2		0.0	0.0	0.0	6.7	42.7	
Tank Farm Pump 2	CNEL	99.0	3	361.8	-62.2	4.0	-3.0	-2.3		0.0	0.0	0.0	6.7	42.1	
Tank Farm Pump 3	CNEL	99.0	3	367.5	-62.3	4.0	-3.2	-2.3		0.0	0.0	0.0	6.7	41.8	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	121.3	-52.7	1.3	-0.1	-1.8		0.0	0.2	-13.8	0.0	45.5	
XF-1502 Splitter Area 1	CNEL	104.5		161.5	-55.2	2.4	0.0	-1.2	-0.27	-4.3	0.0	0.0	6.7	52.7	
XF-1502 Splitter Area 2	CNEL	104.5		158.0	-55.0	2.3	0.0	-1.2	-0.19	-4.3	0.0	0.0	6.7	52.9	
XF-1504 Splitter Area 1	CNEL	104.5		163.0	-55.2	2.4	0.0	-1.2	-0.27	-4.3	0.0	0.0	6.7	52.5	
XF-1504 Splitter Area 2	CNEL	104.5		159.5	-55.0	2.3	-4.6	-1.0	0.00	-3.9	0.0	0.0	6.7	49.0	
XF 251, 250, 271, 270	CNEL	101.1	128	217.0	-57.7	1.9	0.0	-0.9		-3.0	0.0	0.0	6.7	48.1	
XF 260, 261A, 261 B	CNEL	99.9	97	164.6	-55.3	1.8	0.0	-0.7		-3.1	0.1	0.0	6.7	49.3	
XF 304, XF 321	CNEL	110.5	56	180.8	-56.1	2.2	-0.3	-0.8	-1.34	-3.3	0.1	0.0	6.7	57.7	
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	2.3	-4.4	-0.9	-1.73	-3.9	0.0	0.0	6.7	53.6	
XF 335-1, XF 335-2	CNEL	113.4	54	193.1	-56.7	2.3	-4.2	-0.9	-1.48	-3.0	0.4	0.0	6.7	56.5	
XF 353A/B	CNEL	95.4	35	293.3	-60.3	2.0	-0.1	-1.1	-0.03	-3.1	0.0	0.0	6.7	39.5	
XF 353A/B	CNEL	95.4	35	280.5	-60.0	2.1	0.0	-1.0	-0.01	-3.0	0.0	0.0	6.7	40.2	
XF 354A/B	CNEL	95.4	35	266.3	-59.5	1.6	-0.1	-1.0	-0.01	-3.1	0.0	0.0	6.7	40.0	
XF 503	CNEL	113.0	21	129.8	-53.3	2.1	0.0	-2.0	-1.00	-4.0	0.0	0.0	6.7	61.5	
XF - 1601	CNEL	96.6		160.0	-55.1	2.3	0.0	-0.6		-2.6	0.0	0.0	6.7	47.3	
XF - 1602	CNEL	96.6		162.9	-55.2	2.3	-0.1	-0.6		-2.7	0.0	0.0	6.7	46.9	
XF Module 1510	CNEL	108.3		152.4	-54.7	2.3	0.0	-1.1	-0.10	-4.3	0.0	0.0	6.7	57.1	
XF Module 1519	CNEL	109.0		157.5	-54.9	2.3	0.0	-1.2	-0.13	-4.3	0.0	0.0	6.7	57.5	
xxxx xxxx xxxx xxxx	CNEL		606								2.9			27.0	
xxxx xxxx xxxx xxxx	CNEL		606								2.6			26.8	
xxxx xxxx xxxx xxxx	CNEL		917								1.8			34.8	
xxxx xxxx xxxx xxxx	CNEL		917								0.5			33.7	
xxxx xxxx xxxx xxxx	CNEL		608								2.0			39.3	
xxxx xxxx xxxx xxxx	CNEL		608								1.8			38.8	
xxxx xxxx xxxx xxxx	CNEL		228								1.5			31.8	
xxxx xxxx xxxx xxxx	CNEL		520								1.2			36.6	
xxxx xxxx xxxx xxxx	CNEL		1341								3.8			45.1	
xxxx xxxx xxxx xxxx	CNEL		450								2.8			29.7	
Receiver SS-1 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.7 dB(A) Ld 7-19 dB(A) Leq,N 67.3 dB(A) Le 19-22 dB(A) CNEL 74.0 dB(A) Lmax day hr dB(A) Ld 7-'															
ID Fan Motor	CNEL	104.4	2	259.5	-59.3	2.8	-14.4	-1.2		0.0	0.0	0.0	6.7	39.0	
18-1855 A/B	CNEL	98.8		218.0	-57.8	2.7	0.0	-1.1		0.0	0.0	0.0	6.7	49.3	
18-1856 A/B	CNEL	98.8		224.7	-58.0	2.7	0.0	-1.1		0.0	0.0	0.0	6.7	49.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
18-1857 A/B	CNEL	98.8		211.5	-57.5	2.7	-3.3	-0.9		0.0	0.4	0.0	6.7	46.9
18-1858 A/B	CNEL	98.8		206.9	-57.3	2.7	-4.0	-0.8		0.0	0.5	0.0	6.7	46.4
18-PK 1802 Air Compressor Package	CNEL	103.1		228.9	-58.2	2.7	0.0	-0.7		0.0	0.0	0.0	6.7	53.5
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	91.0	-50.2	1.4	-0.1	-1.8		0.0	0.2	-4.8	1.0	54.8
Air Compressor C 1	CNEL	110.0	5	194.3	-56.8	2.7	-12.0	-0.4	-1.14	0.0	3.8	0.0	6.7	52.8
Air Compressor Pump	CNEL	100.3		143.5	-54.1	2.5	-15.1	-1.1		0.0	11.7	0.0	6.7	50.9
Blower F 401	CNEL	113.0		84.4	-49.5	1.2	-12.8	-0.1		0.0	0.3	0.0	6.7	58.8
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	290.8	-60.3	2.3	-0.1	-1.3		0.0	0.0	0.0	6.7	45.9
Boiler Feed Water Pump A	CNEL	97.1	3	232.3	-58.3	2.7	-4.6	-1.4		0.0	0.0	0.0	6.7	42.1
Boiler Feed Water Pump B	CNEL	97.1	3	231.2	-58.3	2.7	-4.8	-1.4		0.0	0.0	0.0	6.7	42.1
C370 A Motor	CNEL	103.6	3	165.1	-55.3	2.7	-4.8	-1.1		0.0	0.0	0.0	6.7	51.6
C370 B Motor	CNEL	108.6	3	173.6	-55.8	2.7	-5.0	-1.2		0.0	0.5	0.0	6.7	56.5
C370A	CNEL	103.8	5	167.9	-55.5	2.7	-2.4	-1.2		0.0	0.0	0.0	6.7	54.1
C370B	CNEL	103.8	5	176.2	-55.9	2.7	-4.6	-1.3		0.0	0.2	0.0	6.7	51.6
C-270 A	CNEL	106.3	6	252.7	-59.0	2.6	-2.2	-1.6	-0.15	0.0	1.1	0.0	6.7	53.7
C-270 B	CNEL	106.3	6	247.8	-58.9	2.6	-3.0	-1.5	-0.04	0.0	1.1	0.0	6.7	53.2
C-270 C	CNEL	106.3	6	243.0	-58.7	2.6	-4.3	-1.4		0.0	1.1	0.0	6.7	52.1
C-301 Compressor	CNEL	106.8	3	268.9	-59.6	2.6	0.0	-1.8	-1.34	0.0	0.0	0.0	6.7	53.4
C-301 Motor	CNEL	106.8	4	265.1	-59.5	2.6	0.0	-2.6	-1.31	0.0	0.0	0.0	6.7	52.8
C-351 Compressor	CNEL	106.8	4	271.6	-59.7	2.6	0.0	-1.8	-1.39	0.0	0.0	0.0	6.7	53.2
C-351 Motor	CNEL	106.8	5	271.6	-59.7	2.6	-2.9	-2.7	-0.67	0.0	0.0	0.0	6.7	50.2
Cars Pumping 6 times in during delivery	CNEL	134.7	361	89.7	-50.0	1.0	-0.1	-0.3		0.0	0.3	-35.6	0.0	49.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	124.2	-52.9	2.1	-9.4	-0.6	-0.56	3.5	2.0	0.0	6.7	55.6
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	129.0	-53.2	2.3	-0.9	-1.1	-0.60	0.0	0.0	0.0	6.7	53.7
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	133.1	-53.5	2.2	-14.9	-0.4	-0.18	-7.8	7.3	0.0	6.7	46.0
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	123.1	-52.8	2.1	-9.9	-0.6		0.0	0.0	0.0	6.7	56.2
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	126.5	-53.0	2.2	-8.0	-0.6	-0.58	-0.5	0.0	0.0	6.7	50.0
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	129.9	-53.3	2.1	-10.8	-0.4		-4.0	5.5	0.0	6.7	46.3
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	141.1	-54.0	2.5	-10.9	-0.5		-6.2	1.5	0.0	6.7	37.0
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	136.1	-53.7	2.4	0.0	-1.0		4.1	0.0	0.0	6.7	56.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.6	-54.7	2.5	-14.6	-0.5		-7.2	4.1	0.0	6.7	36.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	143.2	-54.1	2.5	-3.3	-0.9		3.4	0.0	0.0	6.7	54.9
Cooling Tower M 512	CNEL	95.7		132.7	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2
Cooling Tower M 513	CNEL	95.7		132.0	-53.4	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	53.2
Cooling Tower M 514	CNEL	95.7		133.2	-53.5	2.6	-1.7	-0.7		0.0	3.1	0.0	6.7	52.3
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	235.2	-58.4	2.6	-0.5	-1.0		-3.4	1.8	0.0	6.7	43.5
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	254.2	-59.1	2.8	-11.0	-0.1		0.0	0.0	0.0	6.7	34.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	254.5	-59.1	2.8	-12.2	-0.1		0.0	0.5	0.0	6.7	31.7
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	253.2	-59.1	2.8	-10.2	-0.1		0.0	0.0	0.0	6.7	33.7
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	251.9	-59.0	2.8	-8.7	-0.1		0.0	0.1	0.0	6.7	35.0
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	252.2	-59.0	2.8	-9.5	-0.1		0.0	0.2	0.0	6.7	36.4
FD Motor	CNEL	103.3	2	255.2	-59.1	2.8	-20.7	-1.6		0.0	0.0	0.0	6.7	31.3
Feed Compressor -B Motor	CNEL	103.8	5	195.9	-56.8	2.7	-5.0	-2.0		0.0	0.0	0.0	6.7	49.3
Feed Compressor-A Compressor	CNEL	104.0	5	186.0	-56.4	2.7	-7.1	-1.0		0.0	0.0	0.0	6.7	48.9
Feed Compressor-A Motor	CNEL	103.8	6	183.5	-56.3	2.7	-5.2	-1.9		0.0	0.0	0.0	6.7	49.8
Feed Compressor-B Compressor	CNEL	104.0	7	198.6	-57.0	2.7	-4.7	-1.4		0.0	0.4	0.0	6.7	50.7
H2S Compressor 18-C-271	CNEL	105.3	6	159.0	-55.0	2.6	-4.1	-1.0	-1.07	0.0	2.7	0.0	6.7	56.1
Heater # 5-Heater	CNEL	91.1	13	288.3	-60.2	2.4	-10.8	-0.5		0.0	0.0	0.0	6.7	31.6
Heater # 5-Heater	CNEL	91.1	13	283.3	-60.0	2.3	-6.9	-0.8		0.0	0.0	0.0	6.7	35.3
Heater # 5-Heater	CNEL	91.1	13	293.1	-60.3	2.4	-13.1	-0.6		0.0	0.0	0.0	6.7	29.2
Hydro Heater H-402	CNEL	98.1		123.8	-52.8	2.6	-9.7	-0.3	-0.76	0.0	0.1	0.0	6.7	43.9
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	259.3	-59.3	2.9	-9.0	-0.1		0.0	0.0	0.0	6.7	28.3
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	258.1	-59.2	2.9	-4.2	-0.1		0.0	0.0	0.0	6.7	33.3
ID Fan-ID Fan - North	CNEL	92.2	8	258.4	-59.2	2.9	-8.7	-0.1		0.0	0.0	0.0	6.7	33.7
ID Fan-ID Fan - North 2	CNEL	91.4	7	260.0	-59.3	2.9	-8.1	-0.1		0.0	0.0	0.0	6.7	33.5
ID Fan-ID Fan - South	CNEL	92.3	9	256.6	-59.2	2.9	-4.6	-0.1		0.0	0.0	0.0	6.7	38.0
ID Fan-ID Fan - South 2	CNEL	91.4	7	259.2	-59.3	2.9	-3.3	-0.1		0.0	0.0	0.0	6.7	38.3
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	258.0	-59.2	2.9	-4.7	-0.1		0.0	0.0	0.0	6.7	39.6
Motor & Pump P 56A/B	CNEL	93.7		137.8	-53.8	2.6	-4.3	-1.5	-1.09	0.0	0.0	0.0	6.7	42.3
Motor & Pump P 120/121	CNEL	96.2	2	181.4	-56.2	2.7	-17.5	-0.7	-1.16	0.0	7.7	0.0	6.7	37.8
Motor & Pump P 211/212	CNEL	93.7		111.3	-51.9	2.5	-5.8	-0.7	-0.20	0.0	0.0	0.0	6.7	44.1
Motor & Pump P 215/214	CNEL	94.6		116.4	-52.3	2.5	-4.1	-0.9	-0.21	0.0	0.0	0.0	6.7	46.3
Motor & Pump P 216	CNEL	98.3		111.8	-52.0	2.4	0.0	-1.1	-0.46	0.0	0.0	0.0	6.7	53.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 217/218	CNEL	93.7		113.2	-52.1	2.5	-4.9	-0.8	-0.22	0.0	0.0	0.0	6.7	44.8
Motor & Pump P 300	CNEL	97.1	2	183.6	-56.3	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.2
Motor & Pump P 301	CNEL	102.1	2	181.9	-56.2	2.7	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.3
Motor & Pump P 302	CNEL	97.1	2	185.4	-56.4	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.1
Motor & Pump P 303	CNEL	97.1	2	186.8	-56.4	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.0
Motor & Pump P 305	CNEL	97.5	2	188.3	-56.5	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.3
Motor & Pump P 306	CNEL	112.6	4	197.5	-56.9	2.7	-0.9	-1.6	-1.12	0.0	0.5	0.0	6.7	62.0
Motor & Pump P 307	CNEL	102.1	2	177.0	-55.9	2.7	0.0	-0.9	-1.05	0.0	0.0	0.0	6.7	53.5
Motor & Pump P 309	CNEL	97.5	2	189.8	-56.6	2.7	0.0	-1.0	-1.05	0.0	0.0	0.0	6.7	48.3
Motor & Pump P 312	CNEL	101.5	2	154.9	-54.8	2.6	0.0	-0.8	-1.05	0.0	0.0	0.0	6.7	54.1
Motor & Pump P 313	CNEL	101.5	2	153.1	-54.7	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	54.2
Motor & Pump P 315	CNEL	102.9	2	146.6	-54.3	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.0
Motor & Pump P 316	CNEL	102.9	2	144.6	-54.2	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.1
Motor & Pump P 317	CNEL	102.9	2	142.6	-54.1	2.6	0.0	-0.8	-1.04	0.0	0.0	0.0	6.7	56.3
Motor & Pump P 318	CNEL	100.2	1	148.7	-54.4	2.6	0.0	-0.8	-1.05	0.0	0.0	0.0	6.7	53.2
Motor & Pump P 319	CNEL	100.2	1	150.1	-54.5	2.6	0.0	-0.8	-1.05	0.0	0.0	0.0	6.7	53.1
Motor & Pump P 327	CNEL	111.2	3	205.5	-57.2	2.7	-13.9	-1.0		0.0	0.1	0.0	6.7	48.6
Motor & Pump P 328	CNEL	109.9	5	191.6	-56.6	2.7	-0.9	-1.0	-1.05	0.0	0.1	0.0	6.7	59.8
Motor & Pump P 329	CNEL	110.2	5	194.5	-56.8	2.7	-1.0	-0.9	-1.03	0.0	0.2	0.0	6.7	60.0
Motor & Pump P 451	CNEL	93.7		117.4	-52.4	2.5	-4.6	-1.1	-0.43	0.0	0.0	0.0	6.7	44.4
Motor & Pump P 453	CNEL	93.7		107.0	-51.6	2.5	-4.0	-0.8	-0.04	0.0	0.0	0.0	6.7	46.4
Motor & Pump P 454	CNEL	93.7		117.4	-52.4	2.5	-13.5	-0.7	-0.58	0.0	0.2	0.0	6.7	36.0
Motor & Pump P 457	CNEL	93.7		105.5	-51.5	2.5	-3.1	-0.9	-0.01	0.0	0.0	0.0	6.7	47.3
Motor & Pump P 458	CNEL	93.7		117.7	-52.4	2.5	-11.1	-0.6	-0.36	0.0	0.0	0.0	6.7	38.4
Motor & Pump P 459	CNEL	93.7		118.4	-52.5	2.5	-13.5	-0.7	-0.60	0.0	0.2	0.0	6.7	35.9
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		149.0	-54.5	2.6	-7.9	-0.9	-0.10	0.0	0.0	0.0	6.7	42.1
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		150.6	-54.5	2.7	-3.5	-1.1		0.0	2.3	0.0	6.7	48.6
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		185.2	-56.3	2.7	-2.0	-1.5	-0.40	0.0	0.0	0.0	6.7	44.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		186.3	-56.4	2.7	-2.1	-1.5	-0.41	0.0	0.0	0.0	6.7	44.4
Motor & Pump P 1601 A	CNEL	96.3	2	160.1	-55.1	2.7	-2.2	-1.2		0.0	0.0	0.0	6.7	47.1
Motor & Pump P 1601 B	CNEL	96.3	2	160.8	-55.1	2.7	-2.1	-1.3		0.0	0.0	0.0	6.7	47.2
Motor & Pump P 1602 A	CNEL	96.3	2	161.2	-55.1	2.7	-4.5	-1.6		0.0	0.0	0.0	6.7	44.5
Motor & Pump P 1602 B	CNEL	96.5	2	161.9	-55.2	2.7	-7.9	-1.0		0.0	0.0	0.0	6.7	41.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	152.6	-54.7	2.7	0.0	-1.5	-0.08	0.0	0.0	0.0	6.7	49.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	157.1	-54.9	2.7	0.0	-1.5	-0.18	0.0	0.0	0.0	6.7	49.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	159.4	-55.0	2.7	0.0	-1.5	-0.24	0.0	0.0	0.0	6.7	49.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	152.2	-54.6	2.7	-3.9	-1.2	-0.02	0.0	0.0	0.0	6.7	46.3
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	153.9	-54.7	2.7	-2.8	-1.3	-0.02	0.0	0.0	0.0	6.7	47.2
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	166.6	-55.4	2.7	-5.2	-1.2	-0.37	0.0	0.9	0.0	6.7	44.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	165.8	-55.4	2.7	0.0	-1.6	-0.35	0.0	0.0	0.0	6.7	48.4
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	164.3	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.3	0.0	6.7	48.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	164.9	-55.3	2.7	0.0	-1.5	-0.35	0.0	0.4	0.0	6.7	48.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	197.3	-56.9	2.7	-3.6	-1.1	-1.53	0.0	0.8	0.0	6.7	51.2
P-2 A/B	CNEL	98.5		370.2	-62.4	3.5	-8.7	-1.3		0.0	1.8	0.0	6.7	38.2
P-50 A/B	CNEL	98.1		331.5	-61.4	3.3	-22.3	-1.2	-0.22	0.0	0.0	0.0	6.7	22.9
P-51 A/B	CNEL	98.1		331.6	-61.4	3.3	-16.6	-1.1	-0.23	0.0	0.0	0.0	6.7	28.8
P-060 A/B	CNEL	98.1		331.2	-61.4	3.3	-18.8	-1.4	-1.18	0.0	0.0	0.0	6.7	25.3
P-63	CNEL	98.5		340.2	-61.6	3.3	0.0	-1.6	-1.48	0.0	0.9	0.0	6.7	44.6
P-70 A/B	CNEL	98.1		331.3	-61.4	3.3	-18.5	-1.3	-1.15	0.0	0.0	0.0	6.7	25.7
P-73 A/B	CNEL	98.5		365.7	-62.3	3.4	-8.5	-1.3		0.0	3.2	0.0	6.7	39.8
P-251 A/B	CNEL	98.2		194.9	-56.8	2.5	0.0	-1.0	-0.20	0.0	0.0	0.0	6.7	49.4
P-252 A/B	CNEL	98.2		199.4	-57.0	2.6	0.0	-1.0	-1.07	0.0	0.0	0.0	6.7	48.4
P-253	CNEL	98.2		207.3	-57.3	2.6	0.0	-1.1	-1.24	0.0	0.0	0.0	6.7	47.8
P-254 A/B	CNEL	98.2		206.5	-57.3	2.6	0.0	-1.1	-0.45	0.0	0.0	0.0	6.7	48.6
P-255 A/B	CNEL	98.2		203.0	-57.1	2.5	0.0	-1.0	-0.38	0.0	0.0	0.0	6.7	48.9
P-255 A/B	CNEL	98.2		187.5	-56.5	2.5	0.0	-1.0	-0.04	0.0	0.0	0.0	6.7	49.9
P-256 A/B	CNEL	98.2		198.4	-56.9	2.5	0.0	-1.0	-0.28	0.0	0.0	0.0	6.7	49.2
P-259 A/B	CNEL	98.2		191.3	-56.6	2.5	0.0	-1.0	-0.12	0.0	0.0	0.0	6.7	49.7
P-260	CNEL	99.1		179.5	-56.1	2.5	0.0	-0.9	-0.64	0.0	0.0	0.0	6.7	50.7
P-261 A/B	CNEL	98.0		155.2	-54.8	2.5	0.0	-0.8	-0.11	0.0	0.1	0.0	6.7	51.5
P-262 A/B	CNEL	99.1		170.8	-55.6	2.5	0.0	-0.9	-0.45	0.0	0.0	0.0	6.7	51.3
P-263 A/B	CNEL	99.4		175.0	-55.9	2.5	0.0	-0.9	-0.54	0.0	0.0	0.0	6.7	51.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-270 A/B	CNEL	98.5		250.3	-59.0	2.6	0.0	-1.2	-1.00	0.0	2.2	0.0	6.7	48.8
P-271 A/B	CNEL	98.2		216.6	-57.7	2.6	0.0	-1.1	-0.67	0.0	0.1	0.0	6.7	48.1
P-272 A/B	CNEL	98.2		211.7	-57.5	2.6	0.0	-1.1	-0.56	0.0	0.1	0.0	6.7	48.4
P-273 A/B	CNEL	98.5		246.6	-58.8	2.6	0.0	-1.2	-0.92	0.0	1.8	0.0	6.7	48.6
P-275 A/B/C	CNEL	98.2		218.9	-57.8	2.6	0.0	-1.1	-1.49	0.0	0.0	0.0	6.7	47.1
P-305	CNEL	99.3		267.5	-59.5	2.6	-15.3	-0.9	-0.10	0.0	0.0	0.0	6.7	32.7
P-306	CNEL	100.8		277.3	-59.9	2.7	-7.7	-1.0	-0.33	0.0	0.0	0.0	6.7	41.4
P-309	CNEL	99.3		269.9	-59.6	2.6	-14.9	-0.9	-0.16	0.0	0.0	0.0	6.7	33.0
P-328	CNEL	100.8		283.1	-60.0	2.8	-6.2	-1.0	-0.46	0.0	0.0	0.0	6.7	42.4
P-329	CNEL	100.8		280.3	-59.9	2.7	-6.7	-1.0	-0.40	0.0	0.0	0.0	6.7	42.1
P-353	CNEL	98.5		267.7	-59.5	2.5	0.0	-1.3	-0.15	0.0	0.0	0.0	6.7	46.7
P-358 A/B	CNEL	99.4		286.0	-60.1	2.9	-8.0	-0.9	-0.92	0.0	0.0	0.0	6.7	39.0
P-359 A/B	CNEL	99.4		286.3	-60.1	2.9	-5.0	-1.0	-0.91	0.0	0.4	0.0	6.7	42.3
P-360 A/B	CNEL	99.4		286.8	-60.1	2.9	0.0	-1.4	-0.59	0.0	0.0	0.0	6.7	46.8
P-361A	CNEL	98.1		331.0	-61.4	3.1	0.0	-1.6	-2.55	0.0	0.0	0.0	6.7	42.3
P-371 A/B	CNEL	98.0		136.4	-53.7	2.6	-15.7	-0.4		0.0	4.4	0.0	6.7	41.9
P-373 A/B	CNEL	98.0		150.8	-54.6	2.6	-4.7	-0.8		0.0	0.0	0.0	6.7	47.3
P-374 A/B	CNEL	98.0		148.1	-54.4	2.6	-4.7	-0.8		0.0	0.0	0.0	6.7	47.4
P-375 A/B	CNEL	98.0		141.9	-54.0	2.6	-8.3	-0.5		0.0	6.4	0.0	6.7	50.8
P-376	CNEL	98.0		146.2	-54.3	2.6	-4.8	-0.8		0.0	0.0	0.0	6.7	47.5
P-376 A/B	CNEL	98.0		154.0	-54.7	2.7	0.0	-0.8		0.0	1.7	0.0	6.7	53.4
P-377	CNEL	98.0		144.7	-54.2	2.6	-4.8	-0.8		0.0	0.0	0.0	6.7	47.6
P-1101 A	CNEL	98.9		359.6	-62.1	3.2	-10.0	-1.1		0.0	3.0	0.0	6.7	38.6
P-1103	CNEL	98.9		358.2	-62.1	3.2	-10.1	-1.1		0.0	3.1	0.0	6.7	38.5
P-1105 A/B/C	CNEL	98.9		365.2	-62.2	3.2	-9.5	-1.1		0.0	3.4	0.0	6.7	39.3
P-1800	CNEL	98.9		395.0	-62.9	3.5	-4.8	-1.8	-1.49	0.0	2.4	0.0	6.7	40.5
P-1801	CNEL	98.9		443.6	-63.9	3.8	-4.7	-2.0	-0.98	0.0	0.0	0.0	6.7	37.8
P-1802	CNEL	98.9		443.2	-63.9	3.8	-4.6	-2.0	-1.02	0.0	0.0	0.0	6.7	37.8
P-1803	CNEL	99.1		342.8	-61.7	3.4	0.0	-1.6	-1.46	0.0	0.0	0.0	6.7	44.4
P-1804	CNEL	99.1		355.0	-62.0	3.5	-1.5	-1.5	-2.67	0.0	0.0	0.0	6.7	41.6
P-1805	CNEL	99.1		358.2	-62.1	3.5	-1.4	-1.5	-2.67	0.0	0.0	0.0	6.7	41.6
P-1806	CNEL	99.1		318.7	-61.1	3.3	0.0	-1.5	-1.70	0.0	2.0	0.0	6.7	46.7
P-1809 A	CNEL	98.9		406.3	-63.2	3.6	-6.7	-1.6	-0.88	0.0	2.9	0.0	6.7	39.8
P-1810 A/B/C	CNEL	99.0		361.3	-62.2	3.5	-4.7	-1.7	-2.27	0.0	0.0	0.0	6.7	38.4
P-1811 A/B	CNEL	99.1		325.5	-61.2	3.3	0.0	-1.6	-1.70	0.0	0.0	0.0	6.7	44.6
P-1811 A/B	CNEL	99.1		362.1	-62.2	3.5	-4.3	-1.6	-2.64	0.0	0.1	0.0	6.7	38.7
P-1847 A/B	CNEL	99.4		346.8	-61.8	3.5	0.0	-1.6		0.0	0.7	0.0	6.7	46.9
P-1849 A/B	CNEL	99.4		353.2	-62.0	3.6	0.0	-1.7		0.0	0.7	0.0	6.7	46.8
P-1853	CNEL	99.1		219.1	-57.8	2.4	-0.1	-1.1		0.0	0.0	0.0	6.7	49.1
Piping Furnace Tanks	CNEL	87.1	72	213.0	-57.6	2.6	0.0	-6.5		0.0	0.7	0.0	6.7	32.9
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	193.9	-56.7	2.5	-0.3	-6.1		0.0	0.0	0.0	6.7	44.4
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	191.6	-56.6	2.7	-20.2	-1.4		0.0	0.7	0.0	6.7	46.4
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	192.1	-56.7	2.7	-21.6	-4.4		0.0	1.1	0.0	6.7	43.0
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	431.7	-63.7	2.9	-21.2	-1.5		0.0	0.1	0.0	6.7	33.9
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	412.1	-63.3	2.9	-12.9	-1.3		0.0	2.3	0.0	6.7	45.4
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	383.6	-62.7	2.8	-8.6	-1.3		0.0	0.2	0.0	6.7	41.1
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	404.7	-63.1	2.8	-2.2	-1.8		0.0	0.0	0.0	6.7	53.5
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	380.1	-62.6	2.7	0.0	-1.8		0.0	1.4	0.0	6.7	50.4
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	389.1	-62.8	2.8	-5.1	-1.6		0.0	0.0	0.0	6.7	43.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	377.4	-62.5	2.7	0.0	-1.8		0.0	0.0	0.0	6.7	51.8
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	383.4	-62.7	2.7	-3.7	-1.7		0.0	0.4	0.0	6.7	47.9
Pre-Treat Train-Roof 01	CNEL	113.1	2037	406.0	-63.2	2.5	-4.9	-1.8		0.0	0.0	0.0	6.7	52.4
PSA Pipe 3" Lagging	CNEL	80.6	11	203.7	-57.2	2.5	-1.9	-2.0		0.0	0.0	0.0	6.7	28.7
PSA Skid Additional Piping w NC	CNEL	116.6	57	189.7	-56.6	2.7	-19.9	-1.4		0.0	0.6	0.0	6.7	48.8
Reformer-Burner Reformer East	CNEL	97.3	269	235.4	-58.4	2.5	-17.8	-1.0		0.0	7.3	0.0	6.7	39.5
Reformer-Burner Reformer North	CNEL	95.9	192	223.8	-58.0	2.6	0.0	-1.7		0.0	0.0	0.0	6.7	45.4
Reformer-Burner Reformer South	CNEL	95.8	191	238.8	-58.6	2.6	-18.4	-1.0		0.0	1.0	0.0	6.7	31.1
Reformer-Burner Reformer West	CNEL	97.3	268	226.8	-58.1	2.6	0.0	-1.7		0.0	0.0	0.0	6.7	49.7
RFG A from battery to process	CNEL	99.4	87	199.0	-57.0	2.5	-0.4	-6.3		0.0	0.0	0.0	6.7	45.0
RFG A from battery to process w NC	CNEL	115.2	42	194.2	-56.8	2.7	-20.5	-4.3		0.0	1.2	0.0	6.7	44.2
Stack Noise	CNEL	108.4		263.3	-59.4	2.6	-0.4	-1.8		-7.0	0.0	0.0	6.7	49.1
Steam Turbine-Facade 01	CNEL	99.6	29	173.4	-55.8	2.7	-12.0	-1.8		0.0	0.2	0.0	6.7	39.5
Steam Turbine-Facade 02	CNEL	96.2	13	177.5	-56.0	2.7	-18.6	-1.9		0.0	0.7	0.0	6.7	29.9
Steam Turbine-Facade 03	CNEL	99.6	29	176.1	-55.9	2.7	-22.1	-2.3		0.0	5.9	0.0	6.7	34.5
Steam Turbine-Facade 04	CNEL	96.2	13	172.1	-55.7	2.7	-15.0	-1.4		0.0	1.5	0.0	6.7	35.0
Steam Turbine-Roof 01	CNEL	99.7	30	174.7	-55.8	2.7	-12.2	-1.7		0.0	1.5	0.0	6.7	40.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Tank Farm Pump 1	CNEL	99.0	3	341.6	-61.7	3.3	-1.7	-3.1		0.0	0.0	0.0	6.7	42.5	
Tank Farm Pump 2	CNEL	99.0	3	361.9	-62.2	3.4	-4.2	-2.7		0.0	0.0	0.0	6.7	40.0	
Tank Farm Pump 3	CNEL	99.0	3	367.5	-62.3	3.4	-4.3	-2.7		0.0	0.0	0.0	6.7	39.8	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	121.6	-52.7	1.3	0.0	-1.8		0.0	0.1	-13.8	0.0	45.5	
XF-1502 Splitter Area 1	CNEL	104.5		161.4	-55.2	2.4	0.0	-1.2	-0.17	-4.2	0.0	0.0	6.7	52.8	
XF-1502 Splitter Area 2	CNEL	104.5		157.9	-55.0	2.3	0.0	-1.2	-0.13	-4.2	0.0	0.0	6.7	53.1	
XF-1504 Splitter Area 1	CNEL	104.5		163.0	-55.2	2.4	0.0	-1.2	-0.18	-4.3	0.0	0.0	6.7	52.7	
XF-1504 Splitter Area 2	CNEL	104.5		159.5	-55.0	2.4	-4.6	-1.0	0.00	-3.9	0.0	0.0	6.7	49.1	
XF 251, 250, 271, 270	CNEL	101.1	128	217.0	-57.7	2.1	0.0	-0.8		-2.9	0.0	0.0	6.7	48.4	
XF 260, 261A, 261 B	CNEL	99.9	97	164.6	-55.3	1.9	0.0	-0.7		-3.0	0.0	0.0	6.7	49.5	
XF 304, XF 321	CNEL	110.5	56	180.7	-56.1	2.3	-0.1	-0.7	-0.30	-3.1	0.2	0.0	6.7	59.3	
XF 313, XF 314	CNEL	113.0	18	211.5	-57.5	2.4	-4.7	-0.8	-1.41	-3.7	0.0	0.0	6.7	53.8	
XF 335-1, XF 335-2	CNEL	113.4	54	193.0	-56.7	2.4	-3.9	-0.9	-0.29	-2.9	0.5	0.0	6.7	58.2	
XF 353A/B	CNEL	95.4	35	293.3	-60.3	2.3	-0.1	-1.1	-0.02	-2.9	0.0	0.0	6.7	40.0	
XF 353A/B	CNEL	95.4	35	280.5	-60.0	2.4	0.0	-1.0	-0.01	-2.8	0.0	0.0	6.7	40.7	
XF 354A/B	CNEL	95.4	35	266.3	-59.5	2.0	0.0	-1.0	0.00	-2.9	0.0	0.0	6.7	40.7	
XF 503	CNEL	113.0	21	129.8	-53.3	2.1	0.0	-2.0	-1.00	-3.9	0.0	0.0	6.7	61.7	
XF - 1601	CNEL	96.6		159.9	-55.1	2.4	0.0	-0.6		-2.5	0.0	0.0	6.7	47.5	
XF - 1602	CNEL	96.6		162.8	-55.2	2.4	0.0	-0.6		-2.6	0.0	0.0	6.7	47.3	
XF Module 1510	CNEL	108.3		152.4	-54.7	2.3	0.0	-1.1	-0.10	-4.2	0.0	0.0	6.7	57.2	
XF Module 1519	CNEL	109.0		157.5	-54.9	2.3	0.0	-1.2	-0.13	-4.2	0.0	0.0	6.7	57.6	
xxxx xxxx xxxx xxxx	CNEL		606								2.8			27.2	
xxxx xxxx xxxx xxxx	CNEL		606								2.5			27.0	
xxxx xxxx xxxx xxxx	CNEL		917								1.7			36.1	
xxxx xxxx xxxx xxxx	CNEL		917								0.6			35.4	
xxxx xxxx xxxx xxxx	CNEL		608								1.6			40.8	
xxxx xxxx xxxx xxxx	CNEL		608								1.2			40.3	
xxxx xxxx xxxx xxxx	CNEL		228								1.5			31.9	
xxxx xxxx xxxx xxxx	CNEL		520								1.2			36.9	
xxxx xxxx xxxx xxxx	CNEL		1341								4.1			46.4	
xxxx xxxx xxxx xxxx	CNEL		450								3.0			30.2	
Receiver SS-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.6 dB(A) Ld 7-19 dB(A) Leq,N 66.0 dB(A) Le 19-22 dB(A) CNEL 72.7 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	248.9	-58.9	3.5	-17.2	-1.2		0.0	0.0	0.0	6.7	37.3	
18-1855 A/B	CNEL	98.8		199.9	-57.0	3.5	0.0	-1.1		0.0	0.0	0.0	6.7	50.9	
18-1856 A/B	CNEL	98.8		206.4	-57.3	3.5	0.0	-1.1		0.0	0.0	0.0	6.7	50.6	
18-1857 A/B	CNEL	98.8		193.6	-56.7	3.4	0.0	-1.0		0.0	0.2	0.0	6.7	51.3	
18-1858 A/B	CNEL	98.8		189.3	-56.5	3.1	0.0	-1.0		0.0	0.4	0.0	6.7	51.4	
18-PK 1802 Air Compressor Package	CNEL	103.1		209.3	-57.4	2.8	0.0	-0.8	-0.37	0.0	0.1	0.0	6.7	54.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	83.9	-49.5	1.3	-0.1	-1.8		0.0	0.2	-4.8	1.0	55.4	
Air Compressor C 1	CNEL	110.0	5	208.3	-57.4	3.3	-14.6	-0.4	-1.15	0.0	3.0	0.0	6.7	49.4	
Air Compressor Pump	CNEL	100.3		127.7	-53.1	2.4	-17.3	-1.4		0.0	1.0	0.0	6.7	38.6	
Blower F 401	CNEL	113.0		96.0	-50.6	0.6	-13.2	-0.1		0.0	0.1	0.0	6.7	56.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.7	-59.4	2.2	-1.6	-1.7		0.0	0.0	0.0	6.7	44.8	
Boiler Feed Water Pump A	CNEL	97.1	3	216.3	-57.7	3.5	-6.8	-0.9		0.0	0.0	0.0	6.7	41.8	
Boiler Feed Water Pump B	CNEL	97.1	3	214.9	-57.6	3.5	-7.1	-0.9		0.0	0.0	0.0	6.7	41.6	
C370 A Motor	CNEL	103.6	3	155.4	-54.8	2.3	-5.8	-1.0		0.0	1.0	0.0	6.7	52.0	
C370 B Motor	CNEL	108.6	3	162.9	-55.2	2.2	-8.7	-0.8		0.0	3.2	0.0	6.7	55.9	
C370A	CNEL	103.8	5	158.7	-55.0	2.3	-4.8	-1.0		0.0	1.5	0.0	6.7	53.5	
C370B	CNEL	103.8	5	166.0	-55.4	2.2	-6.9	-1.1		0.0	2.7	0.0	6.7	52.1	
C-270 A	CNEL	106.3	6	228.9	-58.2	2.4	-3.1	-1.5	-0.15	0.0	1.1	0.0	6.7	53.6	
C-270 B	CNEL	106.3	6	224.0	-58.0	2.3	-4.0	-1.4	-0.04	0.0	1.1	0.0	6.7	53.0	
C-270 C	CNEL	106.3	6	219.2	-57.8	2.3	-4.9	-1.4		0.0	1.1	0.0	6.7	52.2	
C-301 Compressor	CNEL	106.8	3	246.5	-58.8	2.7	0.0	-1.7	-1.33	0.0	0.0	0.0	6.7	54.3	
C-301 Motor	CNEL	106.8	4	242.7	-58.7	2.8	0.0	-2.5	-1.30	0.0	0.1	0.0	6.7	53.8	
C-351 Compressor	CNEL	106.8	4	248.1	-58.9	2.6	0.0	-1.7	-0.54	0.0	0.4	0.0	6.7	55.4	
C-351 Motor	CNEL	106.8	5	247.9	-58.9	2.3	-3.2	-2.5	-0.56	0.0	0.8	0.0	6.7	51.5	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.0	-49.9	0.5	-0.6	-0.3		0.0	0.3	-35.6	0.0	49.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.6	-54.0	1.5	-10.1	-0.7	-0.65	4.4	2.9	0.0	6.7	54.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.7	-54.3	1.6	-0.1	-1.3	-0.81	0.0	0.1	0.0	6.7	52.5	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.3	-54.6	1.6	-16.9	-0.4	-0.37	-7.8	5.1	0.0	6.7	39.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.0	-54.0	1.3	-10.0	-0.8	-0.13	0.4	0.0	0.0	6.7	54.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.5	-54.1	1.6	-8.8	-0.6	-0.68	0.2	0.1	0.0	6.7	48.0	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.0	-54.5	1.5	-13.7	-0.4		-5.5	8.8	0.0	6.7	43.2	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.5	-54.3	2.2	-17.2	-0.4		-4.3	0.0	0.0	6.7	30.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.7	-54.1	2.1	-3.9	-0.7		4.7	0.0	0.0	6.7	52.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.0	-20.3	-0.6		-6.1	0.0	0.0	6.7	27.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.4	-54.3	2.1	-9.0	-0.5		4.3	0.0	0.0	6.7	50.0
Cooling Tower M 512	CNEL	95.7		137.8	-53.8	2.7	0.0	-0.7		0.0	2.4	0.0	6.7	52.9
Cooling Tower M 513	CNEL	95.7		137.3	-53.7	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.9
Cooling Tower M 514	CNEL	95.7		138.0	-53.8	2.7	0.0	-0.7		0.0	2.4	0.0	6.7	52.9
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	221.9	-57.9	1.6	-3.6	-1.4		-3.3	2.3	0.0	6.7	40.2
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	245.0	-58.8	3.1	-11.8	-0.1		0.0	0.0	0.0	6.7	34.5
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	245.6	-58.8	3.2	-13.0	-0.1		0.0	0.7	0.0	6.7	31.8
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	244.1	-58.7	2.4	-11.7	-0.1		0.0	0.0	0.0	6.7	32.0
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	242.6	-58.7	3.1	-10.9	-0.1		0.0	0.0	0.0	6.7	33.4
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	243.1	-58.7	3.1	-10.7	-0.1		0.0	0.0	0.0	6.7	35.7
FD Motor	CNEL	103.3	2	245.9	-58.8	3.6	-21.2	-1.7		0.0	0.0	0.0	6.7	31.8
Feed Compressor -B Motor	CNEL	103.8	5	181.6	-56.2	2.2	-7.6	-1.4		0.0	3.1	0.0	6.7	50.6
Feed Compressor-A Compressor	CNEL	104.0	5	173.3	-55.8	2.3	-11.2	-0.7		0.0	3.2	0.0	6.7	48.4
Feed Compressor-A Motor	CNEL	103.8	6	170.2	-55.6	2.3	-8.5	-1.2		0.0	1.5	0.0	6.7	48.9
Feed Compressor-B Compressor	CNEL	104.0	7	184.9	-56.3	2.4	-7.1	-1.0		0.0	3.8	0.0	6.7	52.4
H2S Compressor 18-C-271	CNEL	105.3	6	173.0	-55.8	2.7	-8.6	-0.8	-1.09	0.0	4.7	0.0	6.7	53.1
Heater # 5-Heater	CNEL	91.1	13	262.3	-59.4	2.3	-11.0	-0.6		0.0	0.0	0.0	6.7	32.1
Heater # 5-Heater	CNEL	91.1	13	257.3	-59.2	2.2	-6.9	-0.9		0.0	0.0	0.0	6.7	36.0
Heater # 5-Heater	CNEL	91.1	13	267.2	-59.5	2.3	-12.8	-0.6		0.0	0.0	0.0	6.7	30.2
Hydro Heater H-402	CNEL	98.1		134.0	-53.5	1.9	-3.5	-0.5	-0.04	0.0	0.5	0.0	6.7	49.6
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	248.5	-58.9	3.7	-10.1	0.0		0.0	0.0	0.0	6.7	28.3
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	247.1	-58.8	3.7	-9.6	0.0		0.0	0.0	0.0	6.7	29.2
ID Fan-ID Fan - North	CNEL	92.2	8	247.7	-58.9	3.7	-10.7	0.0		0.0	0.0	0.0	6.7	33.0
ID Fan-ID Fan - North 2	CNEL	91.4	7	249.2	-58.9	3.7	-10.5	0.0		0.0	0.0	0.0	6.7	32.3
ID Fan-ID Fan - South	CNEL	92.3	9	245.7	-58.8	3.7	-2.3	-0.1		0.0	0.0	0.0	6.7	41.5
ID Fan-ID Fan - South 2	CNEL	91.4	7	248.2	-58.9	3.7	-3.8	-0.1		0.0	0.0	0.0	6.7	38.9
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	247.2	-58.9	3.1	-3.9	-0.1		0.0	0.0	0.0	6.7	41.0
Motor & Pump P 56A/B	CNEL	93.7		149.8	-54.5	2.8	-5.8	-1.1	-1.11	0.0	0.0	0.0	6.7	40.6
Motor & Pump P 120/121	CNEL	96.2	2	195.4	-56.8	3.4	-20.5	-0.7	-1.19	0.0	6.8	0.0	6.7	34.0
Motor & Pump P 211/212	CNEL	93.7		126.7	-53.0	2.5	0.0	-1.3	-0.57	0.0	0.3	0.0	6.7	48.2
Motor & Pump P 215/214	CNEL	94.6		131.8	-53.4	2.6	0.0	-1.3	-0.68	0.0	0.3	0.0	6.7	48.8
Motor & Pump P 216	CNEL	98.3		128.4	-53.2	2.2	0.0	-1.3	-0.53	0.0	0.2	0.0	6.7	52.4
Motor & Pump P 217/218	CNEL	93.7		128.6	-53.2	3.0	0.0	-1.3	-0.61	0.0	0.2	0.0	6.7	48.5
Motor & Pump P 300	CNEL	97.1	2	199.0	-57.0	3.4	-6.5	-0.9	-1.17	0.0	0.0	0.0	6.7	41.7
Motor & Pump P 301	CNEL	102.1	2	197.3	-56.9	3.4	-5.7	-0.9	-1.17	0.0	0.0	0.0	6.7	47.6
Motor & Pump P 302	CNEL	97.1	2	200.8	-57.0	3.4	-7.6	-0.9	-1.17	0.0	0.0	0.0	6.7	40.6
Motor & Pump P 303	CNEL	97.1	2	202.3	-57.1	3.4	-7.8	-0.9	-1.17	0.0	0.1	0.0	6.7	40.3
Motor & Pump P 305	CNEL	97.5	2	203.7	-57.2	3.4	-8.5	-0.8	-1.18	0.0	0.1	0.0	6.7	39.9
Motor & Pump P 306	CNEL	112.6	4	212.8	-57.6	3.1	-10.2	-0.9	-1.26	0.0	0.2	0.0	6.7	52.6
Motor & Pump P 307	CNEL	102.1	2	192.4	-56.7	3.4	-3.2	-0.9	-1.16	0.0	0.0	0.0	6.7	50.2
Motor & Pump P 309	CNEL	97.5	2	205.2	-57.2	3.4	-9.1	-0.8	-1.18	0.0	0.0	0.0	6.7	39.3
Motor & Pump P 312	CNEL	101.5	2	170.6	-55.6	3.3	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	54.0
Motor & Pump P 313	CNEL	101.5	2	168.9	-55.5	3.3	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	54.1
Motor & Pump P 315	CNEL	102.9	2	162.5	-55.2	3.0	0.0	-0.9	-1.14	0.0	0.4	0.0	6.7	55.7
Motor & Pump P 316	CNEL	102.9	2	160.5	-55.1	3.0	-0.4	-0.9	-1.02	0.0	0.4	0.0	6.7	55.6
Motor & Pump P 317	CNEL	102.9	2	158.5	-55.0	2.9	-0.7	-0.9	-0.94	0.0	0.5	0.0	6.7	55.5
Motor & Pump P 318	CNEL	100.2	1	164.4	-55.3	3.3	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	53.2
Motor & Pump P 319	CNEL	100.2	1	165.9	-55.4	3.4	0.0	-0.9	-1.15	0.0	0.3	0.0	6.7	53.0
Motor & Pump P 327	CNEL	111.2	3	220.8	-57.9	3.6	-19.9	-1.2	-1.15	0.0	0.5	0.0	6.7	42.0
Motor & Pump P 328	CNEL	109.9	5	207.0	-57.3	3.3	-8.4	-0.9	-1.17	0.0	0.1	0.0	6.7	52.2
Motor & Pump P 329	CNEL	110.2	5	209.9	-57.4	3.3	-9.6	-0.8	-1.14	0.0	0.2	0.0	6.7	51.3
Motor & Pump P 451	CNEL	93.7		127.2	-53.1	2.4	-12.0	-0.6		0.0	4.1	0.0	6.7	41.1
Motor & Pump P 453	CNEL	93.7		115.7	-52.3	2.2	0.0	-1.2		0.0	0.0	0.0	6.7	49.1
Motor & Pump P 454	CNEL	93.7		127.5	-53.1	2.4	-5.8	-0.9	-0.07	0.0	1.4	0.0	6.7	44.3
Motor & Pump P 457	CNEL	93.7		114.1	-52.1	2.2	0.0	-1.2		0.0	0.0	0.0	6.7	49.2
Motor & Pump P 458	CNEL	93.7		127.2	-53.1	2.4	-8.7	-0.8		0.0	0.0	0.0	6.7	40.2
Motor & Pump P 459	CNEL	93.7		128.5	-53.2	2.4	-5.6	-0.9	-0.08	0.0	1.4	0.0	6.7	44.4
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.2	-54.9	3.1	-8.6	-0.9		0.0	0.0	0.0	6.7	41.5
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		158.9	-55.0	3.1	-6.0	-1.1		0.0	0.0	0.0	6.7	43.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.2	-56.7	3.5	-4.5	-1.2	-0.75	0.0	0.0	0.0	6.7	42.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.4	-56.8	3.6	-4.0	-1.3	-0.75	0.0	0.0	0.0	6.7	42.8
Motor & Pump P 1601 A	CNEL	96.3	2	163.8	-55.3	2.9	-11.4	-0.8		0.0	0.0	0.0	6.7	38.3
Motor & Pump P 1601 B	CNEL	96.3	2	164.3	-55.3	2.9	-15.4	-0.9		0.0	0.4	0.0	6.7	34.6
Motor & Pump P 1602 A	CNEL	96.3	2	164.4	-55.3	2.9	-19.1	-0.9		0.0	3.4	0.0	6.7	34.0
Motor & Pump P 1602 B	CNEL	96.5	2	164.9	-55.3	2.9	-19.8	-0.9		0.0	5.2	0.0	6.7	35.2
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.2	-55.0	3.2	-16.0	-0.8	-0.08	0.0	0.1	0.0	6.7	34.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.0	-55.3	3.3	-11.0	-0.8	-0.19	0.0	0.0	0.0	6.7	39.3	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.4	-55.4	3.3	-8.7	-0.9	-0.24	0.0	0.0	0.0	6.7	41.4	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.4	-55.1	3.1	-5.6	-1.3		0.0	0.0	0.0	6.7	44.5	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.2	-55.2	3.2	-4.2	-1.4		0.0	0.0	0.0	6.7	45.8	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.8	-55.7	3.4	-14.4	-0.9	-0.27	0.0	0.6	0.0	6.7	35.7	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.3	-55.7	3.4	-14.6	-0.8	-0.36	0.0	0.8	0.0	6.7	35.7	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.5	-55.7	3.3	-5.5	-1.0	-0.34	0.0	0.1	0.0	6.7	43.9	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.8	-55.7	3.4	-12.5	-0.7	-0.36	0.0	0.8	0.0	6.7	37.9	
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	208.3	-57.4	3.1	-9.3	-0.8		0.0	0.0	0.0	6.7	46.5	
P-2 A/B	CNEL	98.5		345.4	-61.8	3.8	-7.2	-1.4		0.0	0.6	0.0	6.7	39.2	
P-50 A/B	CNEL	98.1		307.5	-60.7	3.8	-22.4	-1.2	-0.21	0.0	0.0	0.0	6.7	23.9	
P-51 A/B	CNEL	98.1		307.5	-60.7	3.8	-16.1	-1.1	-0.21	0.0	0.0	0.0	6.7	30.4	
P-060 A/B	CNEL	98.1		307.6	-60.8	3.8	-22.6	-1.1	-1.77	0.0	0.2	0.0	6.7	22.5	
P-63	CNEL	98.5		315.1	-61.0	3.7	-2.2	-2.0	-1.42	0.0	1.3	0.0	6.7	43.5	
P-70 A/B	CNEL	98.1		307.5	-60.7	3.8	-21.8	-1.2	-1.72	0.0	0.0	0.0	6.7	23.1	
P-73 A/B	CNEL	98.5		340.9	-61.6	3.8	-7.0	-1.4		0.0	1.6	0.0	6.7	40.5	
P-251 A/B	CNEL	98.2		172.4	-55.7	3.4	0.0	-0.9	-0.20	0.0	0.1	0.0	6.7	51.4	
P-252 A/B	CNEL	98.2		177.9	-56.0	3.5	0.0	-1.0	-1.03	0.0	0.0	0.0	6.7	50.4	
P-253	CNEL	98.2		185.6	-56.4	3.5	0.0	-1.0	-1.09	0.0	0.1	0.0	6.7	50.0	
P-254 A/B	CNEL	98.2		184.0	-56.3	3.5	0.0	-1.0	-0.45	0.0	0.0	0.0	6.7	50.6	
P-255 A/B	CNEL	98.2		180.5	-56.1	3.4	0.0	-1.0	-0.37	0.0	0.0	0.0	6.7	50.9	
P-255 A/B	CNEL	98.2		165.1	-55.3	3.3	0.0	-0.9	-0.04	0.0	0.0	0.0	6.7	51.9	
P-256 A/B	CNEL	98.2		176.0	-55.9	3.4	0.0	-1.0	-0.27	0.0	0.0	0.0	6.7	51.2	
P-259 A/B	CNEL	98.2		168.9	-55.5	3.4	0.0	-0.9	-0.12	0.0	0.1	0.0	6.7	51.7	
P-260	CNEL	99.1		158.3	-55.0	3.4	0.0	-0.9	-0.64	0.0	0.1	0.0	6.7	52.7	
P-261 A/B	CNEL	98.0		134.5	-53.6	3.1	0.0	-0.8	-0.11	0.0	0.0	0.0	6.7	53.4	
P-262 A/B	CNEL	99.1		149.7	-54.5	3.3	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	53.3	
P-263 A/B	CNEL	99.4		153.8	-54.7	3.3	0.0	-0.8	-0.54	0.0	0.0	0.0	6.7	53.3	
P-270 A/B	CNEL	98.5		227.7	-58.1	3.7	0.0	-1.2	-0.99	0.0	2.3	0.0	6.7	50.8	
P-271 A/B	CNEL	98.2		194.1	-56.8	3.5	0.0	-1.0	-0.66	0.0	0.1	0.0	6.7	50.0	
P-272 A/B	CNEL	98.2		189.2	-56.5	3.5	0.0	-1.0	-0.56	0.0	0.0	0.0	6.7	50.3	
P-273 A/B	CNEL	98.5		224.0	-58.0	3.7	0.0	-1.2	-0.91	0.0	1.9	0.0	6.7	50.6	
P-275 A/B/C	CNEL	98.2		197.2	-56.9	3.6	0.0	-1.1	-1.19	0.0	0.6	0.0	6.7	50.0	
P-305	CNEL	99.3		242.0	-58.7	3.3	-18.9	-0.8	-0.10	0.0	1.8	0.0	6.7	32.6	
P-306	CNEL	100.8		251.8	-59.0	3.4	-18.8	-0.8	-0.33	0.0	1.6	0.0	6.7	33.5	
P-309	CNEL	99.3		244.4	-58.8	3.3	-18.6	-0.8	-0.16	0.0	1.5	0.0	6.7	32.5	
P-328	CNEL	100.8		257.6	-59.2	3.4	-18.0	-0.8	-0.46	0.0	1.2	0.0	6.7	33.6	
P-329	CNEL	100.8		254.8	-59.1	3.4	-18.4	-0.8	-0.40	0.0	1.3	0.0	6.7	33.5	
P-353	CNEL	98.5		242.8	-58.7	3.1	-1.6	-1.6	-0.14	0.0	0.0	0.0	6.7	46.2	
P-358 A/B	CNEL	99.4		262.2	-59.4	3.7	-11.4	-0.9	-0.91	0.0	1.0	0.0	6.7	38.1	
P-359 A/B	CNEL	99.4		262.3	-59.4	3.6	-3.8	-1.3	-0.88	0.0	0.0	0.0	6.7	44.4	
P-360 A/B	CNEL	99.4		262.4	-59.4	3.6	-2.4	-1.8	-0.57	0.0	0.0	0.0	6.7	45.6	
P-361A	CNEL	98.1		308.5	-60.8	3.7	-2.4	-1.4	-2.56	0.0	0.0	0.0	6.7	41.4	
P-371 A/B	CNEL	98.0		133.1	-53.5	2.7	-5.0	-0.7		0.0	0.1	0.0	6.7	48.3	
P-373 A/B	CNEL	98.0		144.8	-54.2	2.9	-2.6	-0.7		0.0	0.0	0.0	6.7	50.1	
P-374 A/B	CNEL	98.0		142.6	-54.1	2.9	-5.0	-0.5		0.0	0.0	0.0	6.7	48.0	
P-375 A/B	CNEL	98.0		137.7	-53.8	2.8	0.0	-0.8		0.0	0.0	0.0	6.7	53.0	
P-376	CNEL	98.0		141.1	-54.0	2.9	-5.4	-0.5		0.0	0.0	0.0	6.7	47.7	
P-376 A/B	CNEL	98.0		147.5	-54.4	3.0	0.0	-0.8		0.0	0.0	0.0	6.7	52.5	
P-377	CNEL	98.0		139.8	-53.9	2.9	-4.9	-0.5		0.0	0.0	0.0	6.7	48.2	
P-1101 A	CNEL	98.9		335.6	-61.5	3.6	-8.3	-1.2		0.0	1.4	0.0	6.7	39.6	
P-1103	CNEL	98.9		334.1	-61.5	3.6	-8.5	-1.2		0.0	1.3	0.0	6.7	39.3	
P-1105 A/B/C	CNEL	98.9		341.2	-61.7	3.6	-8.0	-1.2		0.0	2.1	0.0	6.7	40.4	
P-1800	CNEL	98.9		369.7	-62.3	3.8	-14.0	-1.2	-1.52	0.0	5.8	0.0	6.7	36.1	
P-1801	CNEL	98.9		418.6	-63.4	3.9	-5.8	-1.8	-1.48	0.0	0.0	0.0	6.7	37.0	
P-1802	CNEL	98.9		418.2	-63.4	3.9	-4.7	-2.0	-1.46	0.0	0.0	0.0	6.7	37.9	
P-1803	CNEL	99.1		320.8	-61.1	4.0	-4.8	-1.6	-1.83	0.0	0.0	0.0	6.7	40.5	
P-1804	CNEL	99.1		332.2	-61.4	4.0	-4.8	-1.6	-2.62	0.0	0.0	0.0	6.7	39.3	
P-1805	CNEL	99.1		335.3	-61.5	4.0	-4.7	-1.7	-2.62	0.0	0.0	0.0	6.7	39.2	
P-1806	CNEL	99.1		296.7	-60.4	4.0	0.0	-1.5	-1.27	0.0	0.0	0.0	6.7	46.5	
P-1809 A	CNEL	98.9		381.2	-62.6	3.8	-10.2	-1.3	-1.52	0.0	0.2	0.0	6.7	34.0	
P-1810 A/B/C	CNEL	99.0		339.0	-61.6	4.0	-4.8	-1.7	-2.63	0.0	0.0	0.0	6.7	39.1	
P-1811 A/B	CNEL	99.1		303.5	-60.6	4.0	0.0	-1.5	-1.39	0.0	0.0	0.0	6.7	46.2	
P-1811 A/B	CNEL	99.1		339.2	-61.6	4.0	-4.8	-1.7	-2.62	0.0	0.0	0.0	6.7	39.1	
P-1847 A/B	CNEL	99.4		328.4	-61.3	4.3	0.0	-1.6		0.0	2.0	0.0	6.7	49.5	
P-1849 A/B	CNEL	99.4		334.7	-61.5	4.3	0.0	-1.6		0.0	0.0	0.0	6.7	47.2	
P-1853	CNEL	99.1		193.9	-56.7	3.1	-3.9	-1.3		0.0	0.0	0.0	6.7	47.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Piping Furnace Tanks	CNEL	87.1	72	205.0	-57.2	2.2	-0.6	-6.4		0.0	0.8	0.0	6.7	32.5	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	184.8	-56.3	2.1	-1.1	-6.1		0.0	0.1	0.0	6.7	43.8	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	188.4	-56.5	2.4	-14.7	-1.5		0.0	0.1	0.0	6.7	51.1	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	188.6	-56.5	2.4	-17.6	-4.4		0.0	0.8	0.0	6.7	46.5	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	411.2	-63.3	2.9	-22.1	-1.5		0.0	0.1	0.0	6.7	33.2	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	392.8	-62.9	2.8	-14.1	-1.3		0.0	3.8	0.0	6.7	46.1	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	364.2	-62.2	2.7	-9.5	-1.4		0.0	0.4	0.0	6.7	40.8	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	383.6	-62.7	2.7	-5.6	-1.5		0.0	0.0	0.0	6.7	50.7	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	359.9	-62.1	2.4	0.0	-1.7		0.0	0.8	0.0	6.7	50.0	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	369.9	-62.4	2.7	-5.8	-1.6	-0.02	0.0	0.0	0.0	6.7	43.4	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	357.6	-62.1	2.6	0.0	-1.7	-0.45	0.0	0.0	0.0	6.7	51.8	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	362.8	-62.2	2.6	-4.3	-1.7	-0.21	0.0	1.0	0.0	6.7	48.1	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	385.9	-62.7	1.7	-4.9	-1.8		0.0	0.1	0.0	6.7	52.1	
PSA Pipe 3" Lagging	CNEL	80.6	11	198.7	-57.0	2.1	-0.7	-2.0		0.0	0.0	0.0	6.7	29.7	
PSA Skid Additional Piping w NC	CNEL	116.6	57	186.8	-56.4	2.4	-15.1	-1.5		0.0	0.1	0.0	6.7	52.7	
Reformer-Burner Reformer East	CNEL	97.3	269	227.6	-58.1	2.0	-19.6	-1.1		0.0	6.3	0.0	6.7	36.5	
Reformer-Burner Reformer North	CNEL	95.9	192	216.0	-57.7	2.1	0.0	-1.7		0.0	0.0	0.0	6.7	45.2	
Reformer-Burner Reformer South	CNEL	95.8	191	229.7	-58.2	2.1	-17.6	-1.0		0.0	0.6	0.0	6.7	31.4	
Reformer-Burner Reformer West	CNEL	97.3	268	217.9	-57.8	2.1	-0.8	-1.7		0.0	0.0	0.0	6.7	48.8	
RFG A from battery to process	CNEL	99.4	87	189.6	-56.5	2.1	-1.4	-6.2		0.0	0.1	0.0	6.7	44.0	
RFG A from battery to process w NC	CNEL	115.2	42	190.9	-56.6	2.4	-16.4	-4.6		0.0	1.2	0.0	6.7	47.9	
Stack Noise	CNEL	108.4		252.9	-59.0	1.6	-0.7	-2.1		-7.5	0.0	0.0	6.7	47.4	
Steam Turbine-Facade 01	CNEL	99.6	29	169.2	-55.6	2.9	-3.4	-3.4		0.0	0.1	0.0	6.7	46.9	
Steam Turbine-Facade 02	CNEL	96.2	13	173.0	-55.8	3.0	-18.1	-2.1		0.0	1.5	0.0	6.7	31.4	
Steam Turbine-Facade 03	CNEL	99.6	29	172.3	-55.7	3.0	-18.1	-1.9		0.0	14.5	0.0	6.7	48.0	
Steam Turbine-Facade 04	CNEL	96.2	13	168.6	-55.5	2.8	0.0	-4.1		0.0	0.1	0.0	6.7	46.2	
Steam Turbine-Roof 01	CNEL	99.7	30	170.8	-55.6	2.3	-3.5	-3.7		0.0	1.6	0.0	6.7	47.5	
Tank Farm Pump 1	CNEL	99.0	3	324.7	-61.2	4.1	-3.1	-2.2		0.0	0.0	0.0	6.7	43.3	
Tank Farm Pump 2	CNEL	99.0	3	344.5	-61.7	4.2	-2.8	-2.2		0.0	0.0	0.0	6.7	43.1	
Tank Farm Pump 3	CNEL	99.0	3	350.0	-61.9	4.2	-1.9	-2.3		0.0	0.0	0.0	6.7	43.8	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	121.8	-52.7	1.2	-0.1	-1.8		0.0	0.2	-13.8	0.0	45.4	
XF-1502 Splitter Area 1	CNEL	104.5		168.5	-55.5	1.9	-0.2	-1.3	-0.25	-4.6	0.0	0.0	6.7	51.2	
XF-1502 Splitter Area 2	CNEL	104.5		164.8	-55.3	1.9	-0.2	-1.3	-0.18	-4.6	0.0	0.0	6.7	51.5	
XF-1504 Splitter Area 1	CNEL	104.5		169.3	-55.6	1.9	-5.0	-0.9	0.00	-4.0	0.0	0.0	6.7	47.8	
XF-1504 Splitter Area 2	CNEL	104.5		165.7	-55.4	1.9	-5.4	-0.9	0.00	-3.9	0.0	0.0	6.7	47.6	
XF 251, 250, 271, 270	CNEL	101.1	128	195.0	-56.8	1.0	0.0	-0.9	-0.04	-3.3	0.0	0.0	6.7	47.8	
XF 260, 261A, 261 B	CNEL	99.9	97	143.2	-54.1	1.0	0.0	-0.7	-0.24	-3.2	0.0	0.0	6.7	49.2	
XF 304, XF 321	CNEL	110.5	56	197.2	-56.9	1.3	-0.6	-0.8	-1.07	-3.1	0.1	0.0	6.7	56.2	
XF 313, XF 314	CNEL	113.0	18	227.5	-58.1	1.6	-3.2	-1.0	-1.53	-4.0	0.0	0.0	6.7	53.4	
XF 335-1, XF 335-2	CNEL	113.4	54	209.2	-57.4	1.5	-4.2	-1.0	-1.38	-3.1	0.4	0.0	6.7	55.0	
XF 353A/B	CNEL	95.4	35	269.3	-59.6	0.8	-0.2	-1.2	-0.06	-3.6	0.0	0.0	6.7	38.3	
XF 353A/B	CNEL	95.4	35	257.6	-59.2	0.9	0.0	-1.1	-0.03	-3.3	0.0	0.0	6.7	39.5	
XF 354A/B	CNEL	95.4	35	241.1	-58.6	0.6	-0.6	-1.0	-0.02	-3.5	0.0	0.0	6.7	39.0	
XF 503	CNEL	113.0	21	144.2	-54.2	1.5	-0.6	-2.6	-0.99	-4.3	0.3	0.0	6.7	58.8	
XF - 1601	CNEL	96.6		163.7	-55.3	1.6	-0.4	-0.7		-3.3	0.0	0.0	6.7	45.3	
XF - 1602	CNEL	96.6		165.6	-55.4	1.6	0.0	-0.6		-2.9	0.0	0.0	6.7	46.0	
XF Module 1510	CNEL	108.3		160.0	-55.1	1.9	-0.6	-1.3	-0.10	-4.6	0.0	0.0	6.7	55.1	
XF Module 1519	CNEL	109.0		165.3	-55.4	1.9	-0.9	-1.4	-0.20	-4.6	0.0	0.0	6.7	55.1	
xxxx xxxx xxxx xxxx	CNEL		606								3.1			26.7	
xxxx xxxx xxxx xxxx	CNEL		606								3.0			26.8	
xxxx xxxx xxxx xxxx	CNEL		917								2.2			36.5	
xxxx xxxx xxxx xxxx	CNEL		917								1.6			36.0	
xxxx xxxx xxxx xxxx	CNEL		608								1.5			37.0	
xxxx xxxx xxxx xxxx	CNEL		608								1.7			36.8	
xxxx xxxx xxxx xxxx	CNEL		228								2.6			32.7	
xxxx xxxx xxxx xxxx	CNEL		520								2.6			37.5	
xxxx xxxx xxxx xxxx	CNEL		1341								2.5			45.4	
xxxx xxxx xxxx xxxx	CNEL		450								4.2			31.3	
Receiver SS-2 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.0 dB(A) Ld 7-19 dB(A) Leq,N 66.3 dB(A) Le 19-22 dB(A) CNEL 73.1 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	249.0	-58.9	3.0	-16.0	-1.2		0.0	0.0	0.0	6.7	38.0	
18-1855 A/B	CNEL	98.8		199.9	-57.0	2.8	0.0	-1.0		0.0	0.0	0.0	6.7	50.2	
18-1856 A/B	CNEL	98.8		206.5	-57.3	2.8	0.0	-1.1		0.0	0.0	0.0	6.7	50.0	
18-1857 A/B	CNEL	98.8		193.7	-56.7	2.7	0.0	-1.0		0.0	0.2	0.0	6.7	50.6	
18-1858 A/B	CNEL	98.8		189.3	-56.5	2.6	0.0	-1.0		0.0	0.4	0.0	6.7	51.0	
18-PK 1802 Air Compressor Package	CNEL	103.1		209.4	-57.4	3.1	0.0	-0.7	-0.37	0.0	0.1	0.0	6.7	54.5	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	84.0	-49.5	1.3	-0.1	-1.8		0.0	0.1	-4.8	1.0	55.4
Air Compressor C 1	CNEL	110.0	5	208.4	-57.4	2.9	-13.9	-0.4	-1.18	0.0	3.2	0.0	6.7	49.9
Air Compressor Pump	CNEL	100.3		127.8	-53.1	2.5	-17.1	-1.3		0.0	0.3	0.0	6.7	38.3
Blower F 401	CNEL	113.0		96.1	-50.6	1.4	-13.2	-0.1		0.0	0.0	0.0	6.7	57.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.8	-59.4	2.5	-0.4	-1.3		0.0	0.0	0.0	6.7	46.6
Boiler Feed Water Pump A	CNEL	97.1	3	216.3	-57.7	2.8	-4.7	-1.2		0.0	0.0	0.0	6.7	43.0
Boiler Feed Water Pump B	CNEL	97.1	3	214.9	-57.6	2.8	-4.7	-1.1		0.0	0.0	0.0	6.7	43.1
C370 A Motor	CNEL	103.6	3	155.5	-54.8	2.6	-5.3	-1.0		0.0	0.0	0.0	6.7	51.8
C370 B Motor	CNEL	108.6	3	162.9	-55.2	2.6	-7.2	-0.9		0.0	1.5	0.0	6.7	56.1
C370A	CNEL	103.8	5	158.7	-55.0	2.6	-4.3	-1.0		0.0	0.8	0.0	6.7	53.6
C370B	CNEL	103.8	5	166.1	-55.4	2.7	-6.4	-1.1		0.0	1.9	0.0	6.7	52.1
C-270 A	CNEL	106.3	6	229.0	-58.2	2.4	-2.9	-1.5	-0.15	0.0	1.0	0.0	6.7	53.6
C-270 B	CNEL	106.3	6	224.0	-58.0	2.4	-3.8	-1.4	-0.04	0.0	1.0	0.0	6.7	53.1
C-270 C	CNEL	106.3	6	219.2	-57.8	2.4	-4.8	-1.3		0.0	0.9	0.0	6.7	52.3
C-301 Compressor	CNEL	106.8	3	246.5	-58.8	2.5	0.0	-1.7	-1.34	0.0	0.0	0.0	6.7	54.1
C-301 Motor	CNEL	106.8	4	242.8	-58.7	2.5	0.0	-2.4	-1.31	0.0	0.0	0.0	6.7	53.5
C-351 Compressor	CNEL	106.8	4	248.2	-58.9	2.4	0.0	-1.7	-0.54	0.0	0.4	0.0	6.7	55.2
C-351 Motor	CNEL	106.8	5	248.0	-58.9	2.4	-3.3	-2.5	-0.56	0.0	0.0	0.0	6.7	50.7
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.2	-49.9	0.8	-0.2	-0.3		0.0	0.3	-35.6	0.0	49.8
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.6	-54.0	2.1	-9.8	-0.7	-0.65	4.4	3.0	0.0	6.7	55.8
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.7	-54.3	2.2	-0.1	-1.2	-0.82	0.0	0.2	0.0	6.7	53.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.3	-54.6	2.2	-14.9	-0.4	-0.32	-7.8	5.7	0.0	6.7	42.9
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.0	-54.0	2.1	-9.9	-0.7	-0.13	0.4	0.0	0.0	6.7	55.1
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.6	-54.1	2.2	-8.2	-0.6	-0.69	0.2	0.1	0.0	6.7	49.2
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.0	-54.5	2.1	-12.5	-0.5		-5.5	7.6	0.0	6.7	43.8
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.6	-54.3	2.5	-16.7	-0.4		-4.3	0.0	0.0	6.7	31.3
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.8	-54.1	2.4	-3.2	-0.9		4.7	0.0	0.0	6.7	53.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.5	-19.8	-0.5		-6.1	0.0	0.0	6.7	28.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.4	-54.3	2.4	-8.0	-0.5		4.3	0.0	0.0	6.7	51.4
Cooling Tower M 512	CNEL	95.7		137.8	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8
Cooling Tower M 513	CNEL	95.7		137.4	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8
Cooling Tower M 514	CNEL	95.7		138.1	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	221.9	-57.9	2.4	-0.8	-0.9		-3.1	1.7	0.0	6.7	43.8
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	245.1	-58.8	2.7	-10.2	-0.1		0.0	0.0	0.0	6.7	35.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	245.6	-58.8	2.7	-12.5	-0.1		0.0	0.6	0.0	6.7	31.7
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	244.1	-58.7	2.6	-10.0	-0.1		0.0	0.0	0.0	6.7	33.9
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	242.6	-58.7	2.6	-7.5	-0.1		0.0	0.0	0.0	6.7	36.3
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	243.2	-58.7	2.7	-9.1	-0.1		0.0	0.0	0.0	6.7	36.9
FD Motor	CNEL	103.3	2	246.0	-58.8	2.9	-21.2	-1.6		0.0	0.0	0.0	6.7	31.3
Feed Compressor -B Motor	CNEL	103.8	5	181.7	-56.2	2.7	-5.4	-1.8		0.0	2.1	0.0	6.7	51.8
Feed Compressor-A Compressor	CNEL	104.0	5	173.3	-55.8	2.6	-10.0	-0.8		0.0	3.8	0.0	6.7	50.5
Feed Compressor-A Motor	CNEL	103.8	6	170.2	-55.6	2.7	-6.1	-1.6		0.0	1.4	0.0	6.7	51.3
Feed Compressor-B Compressor	CNEL	104.0	7	184.9	-56.3	2.6	-5.0	-1.3		0.0	2.4	0.0	6.7	53.1
H2S Compressor 18-C-271	CNEL	105.3	6	173.1	-55.8	2.6	-5.9	-1.0	-1.11	0.0	3.5	0.0	6.7	54.4
Heater # 5-Heater	CNEL	91.1	13	262.3	-59.4	2.5	-10.3	-0.5		0.0	0.0	0.0	6.7	33.1
Heater # 5-Heater	CNEL	91.1	13	257.3	-59.2	2.5	-6.6	-0.8		0.0	0.0	0.0	6.7	36.6
Heater # 5-Heater	CNEL	91.1	13	267.2	-59.5	2.6	-12.2	-0.5		0.0	0.0	0.0	6.7	31.1
Hydro Heater H-402	CNEL	98.1		134.1	-53.5	2.5	-2.8	-0.6	-0.04	0.0	0.4	0.0	6.7	50.7
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	248.6	-58.9	3.0	-9.4	0.0		0.0	0.0	0.0	6.7	28.3
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	247.1	-58.9	3.0	-5.6	-0.1		0.0	0.0	0.0	6.7	32.5
ID Fan-ID Fan - North	CNEL	92.2	8	247.8	-58.9	3.0	-9.6	0.0		0.0	0.0	0.0	6.7	33.3
ID Fan-ID Fan - North 2	CNEL	91.4	7	249.2	-58.9	3.0	-8.1	-0.1		0.0	0.0	0.0	6.7	34.0
ID Fan-ID Fan - South	CNEL	92.3	9	245.7	-58.8	3.0	-4.0	-0.1		0.0	0.0	0.0	6.7	39.1
ID Fan-ID Fan - South 2	CNEL	91.4	7	248.3	-58.9	3.0	-4.6	-0.1		0.0	0.0	0.0	6.7	37.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	247.2	-58.9	2.7	-4.6	-0.1		0.0	0.0	0.0	6.7	39.8
Motor & Pump P 56A/B	CNEL	93.7		149.9	-54.5	2.6	-4.4	-1.3	-1.10	0.0	0.0	0.0	6.7	41.6
Motor & Pump P 120/121	CNEL	96.2	2	195.5	-56.8	2.6	-20.1	-0.6	-1.20	0.0	7.5	0.0	6.7	34.3
Motor & Pump P 211/212	CNEL	93.7		126.8	-53.1	2.5	0.0	-1.3	-0.58	0.0	0.3	0.0	6.7	48.2
Motor & Pump P 215/214	CNEL	94.6		131.9	-53.4	2.5	0.0	-1.3	-0.68	0.0	0.4	0.0	6.7	48.8
Motor & Pump P 216	CNEL	98.3		128.5	-53.2	2.4	0.0	-1.3	-0.53	0.0	0.2	0.0	6.7	52.6
Motor & Pump P 217/218	CNEL	93.7		128.7	-53.2	2.5	0.0	-1.3	-0.62	0.0	0.4	0.0	6.7	48.1
Motor & Pump P 300	CNEL	97.1	2	199.0	-57.0	2.7	-6.2	-0.8	-1.18	0.0	0.0	0.0	6.7	41.4
Motor & Pump P 301	CNEL	102.1	2	197.4	-56.9	2.7	-5.2	-0.9	-1.18	0.0	0.0	0.0	6.7	47.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 302	CNEL	97.1	2	200.8	-57.0	2.8	-7.5	-0.8	-1.18	0.0	0.0	0.0	6.7	40.0
Motor & Pump P 303	CNEL	97.1	2	202.3	-57.1	2.7	-7.7	-0.8	-1.18	0.0	0.1	0.0	6.7	39.7
Motor & Pump P 305	CNEL	97.5	2	203.8	-57.2	2.7	-8.4	-0.8	-1.19	0.0	0.1	0.0	6.7	39.4
Motor & Pump P 306	CNEL	112.6	4	212.8	-57.6	2.7	-9.0	-0.7	-1.28	0.0	0.1	0.0	6.7	53.5
Motor & Pump P 307	CNEL	102.1	2	192.5	-56.7	2.6	-2.7	-0.9	-1.17	0.0	0.0	0.0	6.7	50.0
Motor & Pump P 309	CNEL	97.5	2	205.3	-57.2	2.8	-9.0	-0.8	-1.19	0.0	0.0	0.0	6.7	38.8
Motor & Pump P 312	CNEL	101.5	2	170.7	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.4	0.0	6.7	53.5
Motor & Pump P 313	CNEL	101.5	2	168.9	-55.5	2.6	0.0	-0.9	-1.16	0.0	0.4	0.0	6.7	53.6
Motor & Pump P 315	CNEL	102.9	2	162.6	-55.2	2.6	0.0	-0.9	-1.15	0.0	0.5	0.0	6.7	55.4
Motor & Pump P 316	CNEL	102.9	2	160.6	-55.1	2.6	-0.4	-0.8	-1.03	0.0	0.5	0.0	6.7	55.3
Motor & Pump P 317	CNEL	102.9	2	158.6	-55.0	2.6	-0.7	-0.8	-0.95	0.0	0.6	0.0	6.7	55.3
Motor & Pump P 318	CNEL	100.2	1	164.5	-55.3	2.6	0.0	-0.9	-1.16	0.0	0.5	0.0	6.7	52.6
Motor & Pump P 319	CNEL	100.2	1	165.9	-55.4	2.6	0.0	-0.9	-1.16	0.0	0.4	0.0	6.7	52.5
Motor & Pump P 327	CNEL	111.2	3	220.8	-57.9	3.0	-19.5	-1.2	-1.16	0.0	0.5	0.0	6.7	41.7
Motor & Pump P 328	CNEL	109.9	5	207.0	-57.3	2.6	-7.1	-0.8	-1.18	0.0	0.0	0.0	6.7	52.8
Motor & Pump P 329	CNEL	110.2	5	209.9	-57.4	2.6	-8.9	-0.8	-1.16	0.0	0.2	0.0	6.7	51.4
Motor & Pump P 451	CNEL	93.7		127.2	-53.1	2.5	-10.0	-0.7		0.0	2.8	0.0	6.7	41.9
Motor & Pump P 453	CNEL	93.7		115.8	-52.3	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.4
Motor & Pump P 454	CNEL	93.7		127.6	-53.1	2.5	-4.6	-1.0	-0.06	0.0	1.1	0.0	6.7	45.2
Motor & Pump P 457	CNEL	93.7		114.2	-52.1	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.5
Motor & Pump P 458	CNEL	93.7		127.3	-53.1	2.5	-7.6	-0.7		0.0	0.0	0.0	6.7	41.4
Motor & Pump P 459	CNEL	93.7		128.6	-53.2	2.5	-4.5	-1.0	-0.08	0.0	1.1	0.0	6.7	45.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.3	-54.9	2.6	-8.3	-0.9		0.0	0.0	0.0	6.7	41.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		158.9	-55.0	2.6	-5.9	-1.1		0.0	0.0	0.0	6.7	43.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.3	-56.7	2.7	-3.0	-1.5	-0.74	0.0	0.0	0.0	6.7	42.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.4	-56.8	2.7	-2.7	-1.5	-0.74	0.0	0.0	0.0	6.7	43.0
Motor & Pump P 1601 A	CNEL	96.3	2	163.9	-55.3	2.7	-11.0	-0.8		0.0	0.0	0.0	6.7	38.6
Motor & Pump P 1601 B	CNEL	96.3	2	164.3	-55.3	2.7	-15.2	-0.8		0.0	0.3	0.0	6.7	34.6
Motor & Pump P 1602 A	CNEL	96.3	2	164.5	-55.3	2.7	-18.8	-0.8		0.0	2.9	0.0	6.7	33.6
Motor & Pump P 1602 B	CNEL	96.5	2	165.0	-55.3	2.7	-19.4	-0.8		0.0	4.5	0.0	6.7	34.7
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.3	-55.0	2.7	-14.0	-0.8	-0.08	0.0	0.1	0.0	6.7	36.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.1	-55.3	2.7	-9.1	-1.0	-0.18	0.0	0.0	0.0	6.7	40.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.5	-55.4	2.7	-6.6	-1.2	-0.23	0.0	0.0	0.0	6.7	42.6
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.5	-55.1	2.6	-5.5	-1.3		0.0	0.0	0.0	6.7	44.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.2	-55.2	2.7	-4.1	-1.3		0.0	0.0	0.0	6.7	45.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.8	-55.7	2.7	-13.3	-0.9	-0.29	0.0	0.9	0.0	6.7	36.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.4	-55.7	2.7	-11.5	-0.9	-0.36	0.0	0.9	0.0	6.7	38.1
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.6	-55.7	2.7	-3.3	-1.3	-0.34	0.0	0.2	0.0	6.7	45.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.9	-55.7	2.7	-10.3	-0.8	-0.36	0.0	1.1	0.0	6.7	39.5
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	208.4	-57.4	2.6	-6.4	-0.9		0.0	0.0	0.0	6.7	48.7
P-2 A/B	CNEL	98.5		345.5	-61.8	3.9	-7.1	-1.3		0.0	0.9	0.0	6.7	39.8
P-50 A/B	CNEL	98.1		307.6	-60.8	3.8	-22.2	-1.1	-0.21	0.0	0.0	0.0	6.7	24.3
P-51 A/B	CNEL	98.1		307.5	-60.7	3.8	-15.8	-1.0	-0.21	0.0	0.0	0.0	6.7	30.7
P-060 A/B	CNEL	98.1		307.7	-60.8	3.8	-19.3	-1.3	-1.75	0.0	0.1	0.0	6.7	25.5
P-63	CNEL	98.5		315.1	-61.0	3.7	-0.1	-1.5	-1.46	0.0	1.0	0.0	6.7	45.7
P-70 A/B	CNEL	98.1		307.6	-60.8	3.8	-21.6	-1.1	-1.75	0.0	0.0	0.0	6.7	23.4
P-73 A/B	CNEL	98.5		341.0	-61.6	3.8	-6.9	-1.3		0.0	2.1	0.0	6.7	41.2
P-251 A/B	CNEL	98.2		172.5	-55.7	2.6	0.0	-0.9	-0.20	0.0	0.0	0.0	6.7	50.6
P-252 A/B	CNEL	98.2		177.9	-56.0	2.7	0.0	-0.9	-1.04	0.0	0.0	0.0	6.7	49.7
P-253	CNEL	98.2		185.7	-56.4	2.8	0.0	-1.0	-1.10	0.0	0.1	0.0	6.7	49.4
P-254 A/B	CNEL	98.2		184.1	-56.3	2.8	0.0	-1.0	-0.45	0.0	0.0	0.0	6.7	50.0
P-255 A/B	CNEL	98.2		180.6	-56.1	2.7	0.0	-0.9	-0.38	0.0	0.0	0.0	6.7	50.2
P-255 A/B	CNEL	98.2		165.2	-55.4	2.5	0.0	-0.9	-0.04	0.0	0.0	0.0	6.7	51.1
P-256 A/B	CNEL	98.2		176.0	-55.9	2.7	0.0	-0.9	-0.28	0.0	0.0	0.0	6.7	50.5
P-259 A/B	CNEL	98.2		169.0	-55.5	2.6	0.0	-0.9	-0.12	0.0	0.0	0.0	6.7	50.9
P-260	CNEL	99.1		158.4	-55.0	2.5	0.0	-0.8	-0.65	0.0	0.0	0.0	6.7	51.8
P-261 A/B	CNEL	98.0		134.6	-53.6	2.5	0.0	-0.7	-0.11	0.0	0.0	0.0	6.7	52.7
P-262 A/B	CNEL	99.1		149.8	-54.5	2.5	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	52.5
P-263 A/B	CNEL	99.4		153.9	-54.7	2.5	0.0	-0.8	-0.55	0.0	0.0	0.0	6.7	52.5
P-270 A/B	CNEL	98.5		227.7	-58.1	3.3	0.0	-1.2	-1.00	0.0	2.3	0.0	6.7	50.4
P-271 A/B	CNEL	98.2		194.1	-56.8	2.9	0.0	-1.0	-0.67	0.0	0.1	0.0	6.7	49.4
P-272 A/B	CNEL	98.2		189.3	-56.5	2.9	0.0	-1.0	-0.56	0.0	0.0	0.0	6.7	49.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-273 A/B	CNEL	98.5		224.1	-58.0	3.3	0.0	-1.1	-0.92	0.0	1.9	0.0	6.7	50.2
P-275 A/B/C	CNEL	98.2		197.2	-56.9	3.0	0.0	-1.0	-1.20	0.0	0.6	0.0	6.7	49.4
P-305	CNEL	99.3		242.0	-58.7	3.1	-18.3	-0.7	-0.10	0.0	0.3	0.0	6.7	31.6
P-306	CNEL	100.8		251.9	-59.0	3.2	-17.8	-0.7	-0.34	0.0	0.3	0.0	6.7	33.1
P-309	CNEL	99.3		244.4	-58.8	3.2	-17.9	-0.7	-0.16	0.0	0.0	0.0	6.7	31.6
P-328	CNEL	100.8		257.7	-59.2	3.3	-9.5	-0.8	-0.46	0.0	0.0	0.0	6.7	40.8
P-329	CNEL	100.8		254.9	-59.1	3.3	-9.8	-0.8	-0.40	0.0	0.0	0.0	6.7	40.6
P-353	CNEL	98.5		242.8	-58.7	2.9	-0.1	-1.2	-0.15	0.0	0.0	0.0	6.7	47.9
P-358 A/B	CNEL	99.4		262.3	-59.4	3.5	-10.0	-0.8	-0.93	0.0	1.2	0.0	6.7	39.6
P-359 A/B	CNEL	99.4		262.3	-59.4	3.5	-3.0	-1.2	-0.89	0.0	0.0	0.0	6.7	45.2
P-360 A/B	CNEL	99.4		262.5	-59.4	3.5	-0.1	-1.3	-0.58	0.0	0.0	0.0	6.7	48.1
P-361A	CNEL	98.1		308.5	-60.8	3.6	-2.3	-1.3	-2.58	0.0	0.0	0.0	6.7	41.4
P-371 A/B	CNEL	98.0		133.2	-53.5	2.6	-5.0	-0.7		0.0	0.1	0.0	6.7	48.2
P-373 A/B	CNEL	98.0		144.9	-54.2	2.6	-1.7	-0.7		0.0	0.0	0.0	6.7	50.6
P-374 A/B	CNEL	98.0		142.6	-54.1	2.6	-3.2	-0.6		0.0	0.0	0.0	6.7	49.4
P-375 A/B	CNEL	98.0		137.8	-53.8	2.6	0.0	-0.7		0.0	0.0	0.0	6.7	52.8
P-376	CNEL	98.0		141.1	-54.0	2.6	-3.4	-0.6		0.0	0.0	0.0	6.7	49.2
P-376 A/B	CNEL	98.0		147.6	-54.4	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.2
P-377	CNEL	98.0		139.9	-53.9	2.6	-3.1	-0.6		0.0	0.0	0.0	6.7	49.6
P-1101 A	CNEL	98.9		335.6	-61.5	3.6	-8.1	-1.1		0.0	1.6	0.0	6.7	40.1
P-1103	CNEL	98.9		334.1	-61.5	3.6	-8.3	-1.1		0.0	1.5	0.0	6.7	39.9
P-1105 A/B/C	CNEL	98.9		341.2	-61.7	3.7	-7.8	-1.1		0.0	2.0	0.0	6.7	40.7
P-1800	CNEL	98.9		369.7	-62.3	3.9	-11.9	-1.2	-1.54	0.0	5.4	0.0	6.7	37.9
P-1801	CNEL	98.9		418.6	-63.4	4.1	-4.9	-1.9	-1.48	0.0	0.0	0.0	6.7	38.0
P-1802	CNEL	98.9		418.3	-63.4	4.1	-4.7	-1.9	-1.47	0.0	0.0	0.0	6.7	38.1
P-1803	CNEL	99.1		320.8	-61.1	3.9	0.0	-1.5	-1.85	0.0	0.0	0.0	6.7	45.2
P-1804	CNEL	99.1		332.2	-61.4	4.0	-4.8	-1.6	-2.64	0.0	0.0	0.0	6.7	39.3
P-1805	CNEL	99.1		335.4	-61.5	4.0	-4.8	-1.6	-2.64	0.0	0.0	0.0	6.7	39.2
P-1806	CNEL	99.1		296.8	-60.4	3.8	0.0	-1.4	-1.28	0.0	0.0	0.0	6.7	46.4
P-1809 A	CNEL	98.9		381.2	-62.6	3.9	-7.3	-1.4	-1.51	0.0	0.2	0.0	6.7	36.8
P-1810 A/B/C	CNEL	99.0		339.0	-61.6	4.0	-4.8	-1.6	-2.66	0.0	0.0	0.0	6.7	39.1
P-1811 A/B	CNEL	99.1		303.6	-60.6	3.9	0.0	-1.5	-1.40	0.0	0.0	0.0	6.7	46.1
P-1811 A/B	CNEL	99.1		339.3	-61.6	4.0	-4.7	-1.6	-2.64	0.0	0.0	0.0	6.7	39.2
P-1847 A/B	CNEL	99.4		328.5	-61.3	4.1	0.0	-1.6		0.0	2.3	0.0	6.7	49.6
P-1849 A/B	CNEL	99.4		334.7	-61.5	4.1	0.0	-1.6		0.0	0.0	0.0	6.7	47.1
P-1853	CNEL	99.1		193.9	-56.7	2.7	-0.5	-1.1		0.0	0.0	0.0	6.7	50.2
Piping Furnace Tanks	CNEL	87.1	72	204.9	-57.2	2.5	-0.1	-6.4		0.0	0.6	0.0	6.7	33.1
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	184.8	-56.3	2.4	-0.4	-6.0		0.0	0.0	0.0	6.7	44.8
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	188.4	-56.5	2.7	-13.9	-1.5		0.0	0.1	0.0	6.7	52.1
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	188.6	-56.5	2.7	-16.8	-4.5		0.0	0.8	0.0	6.7	47.6
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	411.2	-63.3	3.1	-21.8	-1.4		0.0	0.1	0.0	6.7	33.9
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	392.8	-62.9	3.0	-13.9	-1.3		0.0	3.4	0.0	6.7	46.2
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	364.2	-62.2	2.9	-9.4	-1.3		0.0	0.4	0.0	6.7	41.2
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	383.5	-62.7	2.9	-5.1	-1.5		0.0	0.0	0.0	6.7	51.5
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	359.9	-62.1	2.5	0.0	-1.7		0.0	0.7	0.0	6.7	50.2
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	369.9	-62.4	2.9	-5.7	-1.5	-0.02	0.0	0.0	0.0	6.7	43.6
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	357.6	-62.1	2.9	0.0	-1.7		0.0	0.0	0.0	6.7	52.5
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	362.8	-62.2	2.8	-4.2	-1.6		0.0	0.9	0.0	6.7	48.5
Pre-Treat Train-Roof 01	CNEL	113.1	2037	385.8	-62.7	2.4	-4.9	-1.8		0.0	0.1	0.0	6.7	52.8
PSA Pipe 3" Lagging	CNEL	80.6	11	198.6	-57.0	2.4	-0.5	-1.9		0.0	0.0	0.0	6.7	30.3
PSA Skid Additional Piping w NC	CNEL	116.6	57	186.8	-56.4	2.7	-14.3	-1.5		0.0	0.1	0.0	6.7	53.8
Reformer-Burner Reformer East	CNEL	97.3	269	227.5	-58.1	2.5	-19.6	-1.0		0.0	6.8	0.0	6.7	37.5
Reformer-Burner Reformer North	CNEL	95.9	192	216.0	-57.7	2.5	0.0	-1.7		0.0	0.0	0.0	6.7	45.6
Reformer-Burner Reformer South	CNEL	95.8	191	229.6	-58.2	2.5	-17.5	-1.0		0.0	0.6	0.0	6.7	31.9
Reformer-Burner Reformer West	CNEL	97.3	268	217.8	-57.8	2.5	-0.5	-1.7		0.0	0.0	0.0	6.7	49.6
RFG A from battery to process	CNEL	99.4	87	189.6	-56.5	2.5	-0.5	-6.2		0.0	0.0	0.0	6.7	45.3
RFG A from battery to process w NC	CNEL	115.2	42	191.0	-56.6	2.7	-15.3	-4.8		0.0	1.2	0.0	6.7	49.1
Stack Noise	CNEL	108.4		252.6	-59.0	2.4	-0.6	-1.8		-7.2	0.0	0.0	6.7	48.8
Steam Turbine-Facade 01	CNEL	99.6	29	169.3	-55.6	2.7	-2.4	-4.2		0.0	0.1	0.0	6.7	46.9
Steam Turbine-Facade 02	CNEL	96.2	13	173.1	-55.8	2.7	-13.7	-2.3		0.0	1.0	0.0	6.7	34.8
Steam Turbine-Facade 03	CNEL	99.6	29	172.4	-55.7	2.7	-15.8	-2.2		0.0	12.7	0.0	6.7	47.9
Steam Turbine-Facade 04	CNEL	96.2	13	168.6	-55.5	2.7	0.0	-4.0		0.0	0.1	0.0	6.7	46.1
Steam Turbine-Roof 01	CNEL	99.7	30	170.8	-55.6	2.7	-4.6	-4.1		0.0	2.2	0.0	6.7	46.9
Tank Farm Pump 1	CNEL	99.0	3	324.7	-61.2	3.8	-3.0	-2.1		0.0	0.0	0.0	6.7	43.1
Tank Farm Pump 2	CNEL	99.0	3	344.6	-61.7	3.9	-4.7	-2.5		0.0	0.0	0.0	6.7	40.7
Tank Farm Pump 3	CNEL	99.0	3	350.1	-61.9	3.9	-4.7	-2.5		0.0	0.0	0.0	6.7	40.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	121.9	-52.7	1.2	0.0	-1.8		0.0	0.2	-13.8	0.0	45.5	
XF-1502 Splitter Area 1	CNEL	104.5		168.4	-55.5	2.3	0.0	-1.2	-0.26	-4.4	0.0	0.0	6.7	52.1	
XF-1502 Splitter Area 2	CNEL	104.5		164.7	-55.3	2.3	0.0	-1.2	-0.18	-4.3	0.0	0.0	6.7	52.4	
XF-1504 Splitter Area 1	CNEL	104.5		169.3	-55.6	2.4	-4.9	-0.9	0.00	-3.8	0.0	0.0	6.7	48.4	
XF-1504 Splitter Area 2	CNEL	104.5		165.6	-55.4	2.3	-5.3	-0.9	0.00	-3.8	0.0	0.0	6.7	48.2	
XF 251, 250, 271, 270	CNEL	101.1	128	195.0	-56.8	2.0	0.0	-0.8		-3.1	0.0	0.0	6.7	49.1	
XF 260, 261A, 261 B	CNEL	99.9	97	143.2	-54.1	1.8	0.0	-0.6		-3.1	0.0	0.0	6.7	50.5	
XF 304, XF 321	CNEL	110.5	56	197.2	-56.9	2.2	-0.5	-0.8	-1.10	-2.9	0.1	0.0	6.7	57.2	
XF 313, XF 314	CNEL	113.0	18	227.4	-58.1	2.3	-3.5	-0.9	-1.52	-3.8	0.0	0.0	6.7	54.1	
XF 335-1, XF 335-2	CNEL	113.4	54	209.2	-57.4	2.2	-3.8	-0.9	-1.43	-3.0	0.4	0.0	6.7	56.1	
XF 353A/B	CNEL	95.4	35	269.2	-59.6	2.0	0.0	-1.0	-0.03	-3.0	0.0	0.0	6.7	40.3	
XF 353A/B	CNEL	95.4	35	257.6	-59.2	2.0	0.0	-1.0	-0.02	-3.0	0.0	0.0	6.7	40.9	
XF 354A/B	CNEL	95.4	35	241.1	-58.6	1.6	-0.4	-0.9	-0.01	-3.1	0.0	0.0	6.7	40.6	
XF 503	CNEL	113.0	21	144.2	-54.2	2.1	-0.1	-2.2	-1.03	-4.1	0.0	0.0	6.7	60.1	
XF - 1601	CNEL	96.6		163.5	-55.3	2.3	-0.1	-0.6		-2.7	0.0	0.0	6.7	46.9	
XF - 1602	CNEL	96.6		165.4	-55.4	2.3	0.0	-0.6		-2.6	0.0	0.0	6.7	47.1	
XF Module 1510	CNEL	108.3		159.9	-55.1	2.3	-0.1	-1.2	-0.10	-4.4	0.0	0.0	6.7	56.4	
XF Module 1519	CNEL	109.0		165.2	-55.4	2.3	-0.1	-1.2	-0.21	-4.4	0.0	0.0	6.7	56.7	
xxxx xxxx xxxx xxxx	CNEL		606								2.7			26.9	
xxxx xxxx xxxx xxxx	CNEL		606								2.6			27.2	
xxxx xxxx xxxx xxxx	CNEL		917								1.8			37.6	
xxxx xxxx xxxx xxxx	CNEL		917								0.9			36.9	
xxxx xxxx xxxx xxxx	CNEL		608								1.4			38.2	
xxxx xxxx xxxx xxxx	CNEL		608								1.6			38.0	
xxxx xxxx xxxx xxxx	CNEL		228								2.2			32.3	
xxxx xxxx xxxx xxxx	CNEL		520								2.0			37.1	
xxxx xxxx xxxx xxxx	CNEL		1341								2.9			45.9	
xxxx xxxx xxxx xxxx	CNEL		450								3.6			30.8	
Receiver SS-2 FI F3 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 67.3 dB(A) Ld 7-19 dB(A) Leq,N 66.7 dB(A) Le 19-22 dB(A) CNEL 73.5 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	249.0	-58.9	2.8	-15.0	-1.2		0.0	0.1	0.0	6.7	38.9	
18-1855 A/B	CNEL	98.8		200.0	-57.0	2.7	0.0	-1.0		0.0	0.0	0.0	6.7	50.1	
18-1856 A/B	CNEL	98.8		206.6	-57.3	2.7	0.0	-1.1		0.0	0.0	0.0	6.7	49.8	
18-1857 A/B	CNEL	98.8		193.8	-56.7	2.7	0.0	-1.0		0.0	0.2	0.0	6.7	50.6	
18-1858 A/B	CNEL	98.8		189.4	-56.5	2.7	0.0	-1.0		0.0	0.4	0.0	6.7	51.0	
18-PK 1802 Air Compressor Package	CNEL	103.1		209.5	-57.4	2.7	0.0	-0.7	-0.37	0.0	0.1	0.0	6.7	54.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	84.3	-49.5	1.3	0.0	-1.8		0.0	0.1	-4.8	1.0	55.4	
Air Compressor C 1	CNEL	110.0	5	208.5	-57.4	2.7	-10.2	-0.4	-1.18	0.0	2.6	0.0	6.7	52.7	
Air Compressor Pump	CNEL	100.3		127.9	-53.1	2.5	-16.9	-1.2		0.0	0.0	0.0	6.7	38.2	
Blower F 401	CNEL	113.0		96.3	-50.7	1.6	-12.9	-0.1		0.0	0.1	0.0	6.7	57.6	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	264.8	-59.5	2.4	-0.1	-1.2		0.0	0.0	0.0	6.7	46.9	
Boiler Feed Water Pump A	CNEL	97.1	3	216.4	-57.7	2.7	-4.1	-1.2		0.0	0.0	0.0	6.7	43.5	
Boiler Feed Water Pump B	CNEL	97.1	3	215.0	-57.6	2.7	-4.1	-1.2		0.0	0.0	0.0	6.7	43.5	
C370 A Motor	CNEL	103.6	3	155.5	-54.8	2.7	-5.0	-1.1		0.0	0.0	0.0	6.7	52.1	
C370 B Motor	CNEL	108.6	3	163.0	-55.2	2.7	-5.4	-1.1		0.0	1.7	0.0	6.7	58.0	
C370A	CNEL	103.8	5	158.8	-55.0	2.7	-4.0	-1.1		0.0	0.9	0.0	6.7	53.9	
C370B	CNEL	103.8	5	166.1	-55.4	2.7	-6.2	-1.2		0.0	2.5	0.0	6.7	52.9	
C-270 A	CNEL	106.3	6	229.0	-58.2	2.6	-2.8	-1.5	-0.15	0.0	0.9	0.0	6.7	53.9	
C-270 B	CNEL	106.3	6	224.1	-58.0	2.6	-3.6	-1.4	-0.04	0.0	0.9	0.0	6.7	53.4	
C-270 C	CNEL	106.3	6	219.2	-57.8	2.6	-4.7	-1.3		0.0	0.8	0.0	6.7	52.5	
C-301 Compressor	CNEL	106.8	3	246.6	-58.8	2.7	0.0	-1.7	-1.34	0.0	0.0	0.0	6.7	54.3	
C-301 Motor	CNEL	106.8	4	242.8	-58.7	2.7	0.0	-2.4	-1.31	0.0	0.0	0.0	6.7	53.7	
C-351 Compressor	CNEL	106.8	4	248.2	-58.9	2.6	0.0	-1.7	-0.54	0.0	0.0	0.0	6.7	55.0	
C-351 Motor	CNEL	106.8	5	248.0	-58.9	2.6	-3.2	-2.5	-0.56	0.0	0.0	0.0	6.7	50.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.5	-49.9	0.9	-0.1	-0.3		0.0	0.3	-35.6	0.0	49.9	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	141.7	-54.0	2.2	-9.5	-0.7	-0.65	4.4	3.1	0.0	6.7	56.3	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	145.8	-54.3	2.3	-0.1	-1.2	-0.82	0.0	0.2	0.0	6.7	53.3	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	151.4	-54.6	2.2	-14.8	-0.4	-0.32	-7.8	6.6	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	142.1	-54.0	2.1	-9.9	-0.7	-0.13	0.4	0.0	0.0	6.7	55.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	143.7	-54.1	2.2	-8.0	-0.6	-0.69	0.2	0.1	0.0	6.7	49.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	150.1	-54.5	2.2	-12.3	-0.4		-5.5	7.4	0.0	6.7	43.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	145.7	-54.3	2.5	-16.4	-0.4		-4.3	0.0	0.0	6.7	31.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	142.9	-54.1	2.5	-2.4	-1.1		4.7	0.0	0.0	6.7	54.0	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	152.9	-54.7	2.5	-19.5	-0.5		-6.1	0.0	0.0	6.7	29.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	146.5	-54.3	2.5	-6.5	-0.6		4.3	0.0	0.0	6.7	52.7
Cooling Tower M 512	CNEL	95.7		138.0	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8
Cooling Tower M 513	CNEL	95.7		137.5	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8
Cooling Tower M 514	CNEL	95.7		138.2	-53.8	2.6	0.0	-0.7		0.0	2.4	0.0	6.7	52.8
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	221.9	-57.9	2.5	-0.4	-0.8		-3.0	1.9	0.0	6.7	44.7
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	245.1	-58.8	2.8	-9.9	-0.1		0.0	0.0	0.0	6.7	36.2
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	245.6	-58.8	2.8	-12.4	-0.1		0.0	0.6	0.0	6.7	31.9
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	244.1	-58.7	2.8	-10.1	-0.1		0.0	0.0	0.0	6.7	34.1
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	242.7	-58.7	2.8	-7.5	-0.1		0.0	0.0	0.0	6.7	36.5
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	243.2	-58.7	2.8	-8.9	-0.1		0.0	0.0	0.0	6.7	37.1
FD Motor	CNEL	103.3	2	246.0	-58.8	2.8	-17.0	-1.4		0.0	2.9	0.0	6.7	38.4
Feed Compressor -B Motor	CNEL	103.8	5	181.7	-56.2	2.7	-5.2	-1.9		0.0	2.0	0.0	6.7	51.9
Feed Compressor-A Compressor	CNEL	104.0	5	173.4	-55.8	2.7	-6.9	-0.9		0.0	3.1	0.0	6.7	52.8
Feed Compressor-A Motor	CNEL	103.8	6	170.3	-55.6	2.7	-5.3	-1.8		0.0	1.4	0.0	6.7	51.8
Feed Compressor-B Compressor	CNEL	104.0	7	185.0	-56.3	2.7	-4.8	-1.3		0.0	2.4	0.0	6.7	53.3
H2S Compressor 18-C-271	CNEL	105.3	6	173.2	-55.8	2.6	-4.3	-1.1	-1.10	0.0	3.2	0.0	6.7	55.6
Heater # 5-Heater	CNEL	91.1	13	262.4	-59.4	2.4	-10.1	-0.5		0.0	0.0	0.0	6.7	33.2
Heater # 5-Heater	CNEL	91.1	13	257.4	-59.2	2.4	-6.5	-0.8		0.0	0.0	0.0	6.7	36.6
Heater # 5-Heater	CNEL	91.1	13	267.3	-59.5	2.4	-12.0	-0.5		0.0	0.0	0.0	6.7	31.1
Hydro Heater H-402	CNEL	98.1		134.2	-53.5	2.6	-2.7	-0.6	-0.04	0.0	0.5	0.0	6.7	50.9
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	248.6	-58.9	2.9	-8.8	-0.1		0.0	0.0	0.0	6.7	28.8
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	247.2	-58.9	2.9	-4.1	-0.1		0.0	0.0	0.0	6.7	33.8
ID Fan-ID Fan - North	CNEL	92.2	8	247.8	-58.9	2.9	-9.0	-0.1		0.0	0.0	0.0	6.7	33.9
ID Fan-ID Fan - North 2	CNEL	91.4	7	249.2	-58.9	2.9	-7.8	-0.1		0.0	0.0	0.0	6.7	34.2
ID Fan-ID Fan - South	CNEL	92.3	9	245.8	-58.8	2.9	-4.6	-0.1		0.0	0.0	0.0	6.7	38.4
ID Fan-ID Fan - South 2	CNEL	91.4	7	248.3	-58.9	2.9	-3.5	-0.1		0.0	0.0	0.0	6.7	38.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	247.3	-58.9	2.9	-4.6	-0.1		0.0	0.0	0.0	6.7	40.0
Motor & Pump P 56A/B	CNEL	93.7		150.0	-54.5	2.6	-4.8	-1.4	-1.09	0.0	0.0	0.0	6.7	41.1
Motor & Pump P 120/121	CNEL	96.2	2	195.6	-56.8	2.7	-16.1	-0.7	-1.19	0.0	7.2	0.0	6.7	38.0
Motor & Pump P 211/212	CNEL	93.7		126.9	-53.1	2.5	0.0	-1.3	-0.58	0.0	0.4	0.0	6.7	48.2
Motor & Pump P 215/214	CNEL	94.6		132.0	-53.4	2.5	0.0	-1.3	-0.69	0.0	0.4	0.0	6.7	48.8
Motor & Pump P 216	CNEL	98.3		128.6	-53.2	2.4	0.0	-1.3	-0.53	0.0	0.2	0.0	6.7	52.6
Motor & Pump P 217/218	CNEL	93.7		128.9	-53.2	2.5	0.0	-1.3	-0.62	0.0	0.4	0.0	6.7	48.1
Motor & Pump P 300	CNEL	97.1	2	199.1	-57.0	2.7	-4.9	-0.9	-1.17	0.0	0.0	0.0	6.7	42.5
Motor & Pump P 301	CNEL	102.1	2	197.5	-56.9	2.7	-3.6	-0.9	-1.17	0.0	0.0	0.0	6.7	48.8
Motor & Pump P 302	CNEL	97.1	2	200.9	-57.1	2.7	-7.0	-0.8	-1.18	0.0	0.0	0.0	6.7	40.4
Motor & Pump P 303	CNEL	97.1	2	202.4	-57.1	2.7	-7.2	-0.8	-1.18	0.0	0.1	0.0	6.7	40.2
Motor & Pump P 305	CNEL	97.5	2	203.9	-57.2	2.7	-7.8	-0.8	-1.19	0.0	0.0	0.0	6.7	39.9
Motor & Pump P 306	CNEL	112.6	4	212.9	-57.6	2.7	-8.0	-0.7	-1.28	0.0	0.2	0.0	6.7	54.6
Motor & Pump P 307	CNEL	102.1	2	192.6	-56.7	2.7	-1.4	-0.9	-1.17	0.0	0.0	0.0	6.7	51.3
Motor & Pump P 309	CNEL	97.5	2	205.4	-57.2	2.7	-8.2	-0.7	-1.19	0.0	0.0	0.0	6.7	39.4
Motor & Pump P 312	CNEL	101.5	2	170.8	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.7	0.0	6.7	53.7
Motor & Pump P 313	CNEL	101.5	2	169.1	-55.6	2.6	0.0	-0.9	-1.16	0.0	0.6	0.0	6.7	53.8
Motor & Pump P 315	CNEL	102.9	2	162.7	-55.2	2.6	0.0	-0.9	-1.15	0.0	0.6	0.0	6.7	55.5
Motor & Pump P 316	CNEL	102.9	2	160.7	-55.1	2.6	-0.4	-0.8	-1.03	0.0	0.6	0.0	6.7	55.3
Motor & Pump P 317	CNEL	102.9	2	158.7	-55.0	2.6	-0.7	-0.8	-0.95	0.0	0.8	0.0	6.7	55.5
Motor & Pump P 318	CNEL	100.2	1	164.6	-55.3	2.6	0.0	-0.9	-1.16	0.0	0.6	0.0	6.7	52.7
Motor & Pump P 319	CNEL	100.2	1	166.1	-55.4	2.6	0.0	-0.9	-1.16	0.0	0.6	0.0	6.7	52.6
Motor & Pump P 327	CNEL	111.2	3	220.9	-57.9	2.7	-19.4	-1.2		0.0	0.5	0.0	6.7	42.6
Motor & Pump P 328	CNEL	109.9	5	207.1	-57.3	2.7	-6.4	-0.9	-1.18	0.0	0.1	0.0	6.7	53.6
Motor & Pump P 329	CNEL	110.2	5	210.0	-57.4	2.7	-8.0	-0.8	-1.16	0.0	0.3	0.0	6.7	52.4
Motor & Pump P 451	CNEL	93.7		127.4	-53.1	2.5	-9.7	-0.7		0.0	2.7	0.0	6.7	42.2
Motor & Pump P 453	CNEL	93.7		115.9	-52.3	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.4
Motor & Pump P 454	CNEL	93.7		127.7	-53.1	2.5	-3.9	-1.1	-0.06	0.0	0.9	0.0	6.7	45.6
Motor & Pump P 457	CNEL	93.7		114.4	-52.2	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	49.5
Motor & Pump P 458	CNEL	93.7		127.4	-53.1	2.5	-7.5	-0.7		0.0	0.0	0.0	6.7	41.6
Motor & Pump P 459	CNEL	93.7		128.7	-53.2	2.5	-3.9	-1.1	-0.08	0.0	0.9	0.0	6.7	45.5
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		157.4	-54.9	2.6	-8.3	-0.9		0.0	0.0	0.0	6.7	41.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		159.0	-55.0	2.7	-5.9	-1.1		0.0	0.0	0.0	6.7	43.6
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		193.4	-56.7	2.7	-4.1	-2.0	-0.72	0.0	0.0	0.0	6.7	41.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		194.5	-56.8	2.7	-4.1	-2.0	-0.73	0.0	0.0	0.0	6.7	41.2
Motor & Pump P 1601 A	CNEL	96.3	2	164.0	-55.3	2.7	-9.3	-0.8		0.0	0.0	0.0	6.7	40.2
Motor & Pump P 1601 B	CNEL	96.3	2	164.4	-55.3	2.7	-15.1	-0.8		0.0	0.0	0.0	6.7	34.4
Motor & Pump P 1602 A	CNEL	96.3	2	164.6	-55.3	2.7	-18.6	-0.8		0.0	0.0	0.0	6.7	30.9
Motor & Pump P 1602 B	CNEL	96.5	2	165.1	-55.3	2.7	-19.2	-0.8		0.0	0.0	0.0	6.7	30.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	159.4	-55.0	2.7	-13.7	-0.8	-0.08	0.0	0.1	0.0	6.7	36.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.2	-55.3	2.7	-8.8	-1.0	-0.18	0.0	0.0	0.0	6.7	40.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	166.6	-55.4	2.7	-6.1	-1.2	-0.23	0.0	0.0	0.0	6.7	43.0	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	160.6	-55.1	2.7	-5.5	-1.3		0.0	0.0	0.0	6.7	44.2	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	162.4	-55.2	2.7	-4.1	-1.3		0.0	0.0	0.0	6.7	45.4	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	172.9	-55.8	2.7	-13.0	-0.9	-0.30	0.0	1.8	0.0	6.7	37.6	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	172.5	-55.7	2.7	-9.0	-0.9	-0.36	0.0	1.1	0.0	6.7	40.8	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	171.7	-55.7	2.7	-4.8	-1.6	-0.33	0.0	0.5	0.0	6.7	43.7	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	172.0	-55.7	2.7	-6.5	-1.0	-0.35	0.0	1.0	0.0	6.7	43.1	
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	208.4	-57.4	2.7	-5.7	-1.0		0.0	0.0	0.0	6.7	49.5	
P-2 A/B	CNEL	98.5		345.5	-61.8	3.4	-6.9	-1.3		0.0	1.4	0.0	6.7	40.0	
P-50 A/B	CNEL	98.1		307.6	-60.8	3.2	-22.1	-1.1	-0.21	0.0	0.0	0.0	6.7	23.7	
P-51 A/B	CNEL	98.1		307.6	-60.8	3.2	-15.8	-1.0	-0.21	0.0	0.0	0.0	6.7	30.2	
P-060 A/B	CNEL	98.1		307.8	-60.8	3.2	-18.8	-1.3	-1.22	0.0	0.1	0.0	6.7	25.9	
P-63	CNEL	98.5		315.2	-61.0	3.1	0.0	-1.5	-1.47	0.0	0.9	0.0	6.7	45.3	
P-70 A/B	CNEL	98.1		307.6	-60.8	3.2	-18.4	-1.3	-1.19	0.0	0.0	0.0	6.7	26.3	
P-73 A/B	CNEL	98.5		341.0	-61.6	3.4	-6.8	-1.3		0.0	2.5	0.0	6.7	41.3	
P-251 A/B	CNEL	98.2		172.7	-55.7	2.5	0.0	-0.9	-0.20	0.0	0.0	0.0	6.7	50.6	
P-252 A/B	CNEL	98.2		178.1	-56.0	2.6	0.0	-0.9	-1.04	0.0	0.0	0.0	6.7	49.5	
P-253	CNEL	98.2		185.8	-56.4	2.6	0.0	-1.0	-1.10	0.0	0.0	0.0	6.7	49.1	
P-254 A/B	CNEL	98.2		184.2	-56.3	2.6	0.0	-1.0	-0.45	0.0	0.0	0.0	6.7	49.7	
P-255 A/B	CNEL	98.2		180.7	-56.1	2.5	0.0	-0.9	-0.38	0.0	0.0	0.0	6.7	50.0	
P-255 A/B	CNEL	98.2		165.3	-55.4	2.5	0.0	-0.9	-0.04	0.0	0.0	0.0	6.7	51.1	
P-256 A/B	CNEL	98.2		176.2	-55.9	2.5	0.0	-0.9	-0.28	0.0	0.0	0.0	6.7	50.3	
P-259 A/B	CNEL	98.2		169.1	-55.6	2.5	0.0	-0.9	-0.12	0.0	0.0	0.0	6.7	50.8	
P-260	CNEL	99.1		158.5	-55.0	2.5	0.0	-0.8	-0.65	0.0	0.0	0.0	6.7	51.8	
P-261 A/B	CNEL	98.0		134.7	-53.6	2.5	0.0	-0.7	-0.11	0.0	0.0	0.0	6.7	52.7	
P-262 A/B	CNEL	99.1		149.9	-54.5	2.5	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	52.5	
P-263 A/B	CNEL	99.4		154.1	-54.7	2.5	0.0	-0.8	-0.55	0.0	0.0	0.0	6.7	52.5	
P-270 A/B	CNEL	98.5		227.8	-58.1	2.6	0.0	-1.1	-1.00	0.0	2.2	0.0	6.7	49.7	
P-271 A/B	CNEL	98.2		194.2	-56.8	2.6	0.0	-1.0	-0.67	0.0	0.0	0.0	6.7	49.0	
P-272 A/B	CNEL	98.2		189.4	-56.5	2.6	0.0	-1.0	-0.56	0.0	0.0	0.0	6.7	49.3	
P-273 A/B	CNEL	98.5		224.2	-58.0	2.6	0.0	-1.1	-0.92	0.0	1.8	0.0	6.7	49.5	
P-275 A/B/C	CNEL	98.2		197.4	-56.9	2.6	0.0	-1.0	-1.21	0.0	0.6	0.0	6.7	49.0	
P-305	CNEL	99.3		242.1	-58.7	2.5	-15.4	-0.8	-0.10	0.0	0.0	0.0	6.7	33.5	
P-306	CNEL	100.8		252.0	-59.0	2.5	-9.6	-0.8	-0.33	0.0	0.0	0.0	6.7	40.3	
P-309	CNEL	99.3		244.5	-58.8	2.5	-15.0	-0.8	-0.16	0.0	0.0	0.0	6.7	33.8	
P-328	CNEL	100.8		257.8	-59.2	2.6	-8.5	-0.9	-0.46	0.0	0.0	0.0	6.7	41.0	
P-329	CNEL	100.8		254.9	-59.1	2.5	-8.9	-0.8	-0.40	0.0	0.0	0.0	6.7	40.8	
P-353	CNEL	98.5		242.9	-58.7	2.5	0.0	-1.2	-0.15	0.0	0.0	0.0	6.7	47.6	
P-358 A/B	CNEL	99.4		262.4	-59.4	2.8	-9.9	-0.8	-0.93	0.0	1.5	0.0	6.7	39.3	
P-359 A/B	CNEL	99.4		262.4	-59.4	2.7	-2.7	-1.2	-0.89	0.0	0.0	0.0	6.7	44.6	
P-360 A/B	CNEL	99.4		262.5	-59.4	2.7	0.0	-1.3	-0.59	0.0	0.0	0.0	6.7	47.5	
P-361A	CNEL	98.1		308.6	-60.8	2.9	-2.3	-1.3	-2.58	0.0	0.0	0.0	6.7	40.8	
P-371 A/B	CNEL	98.0		133.3	-53.5	2.6	-5.0	-0.7		0.0	0.1	0.0	6.7	48.3	
P-373 A/B	CNEL	98.0		145.1	-54.2	2.6	-4.8	-0.8		0.0	0.0	0.0	6.7	47.6	
P-374 A/B	CNEL	98.0		142.8	-54.1	2.6	-2.8	-0.7		0.0	0.0	0.0	6.7	49.8	
P-375 A/B	CNEL	98.0		137.9	-53.8	2.6	0.0	-0.7		0.0	0.0	0.0	6.7	52.8	
P-376	CNEL	98.0		141.3	-54.0	2.6	-3.1	-0.7		0.0	0.0	0.0	6.7	49.5	
P-376 A/B	CNEL	98.0		147.7	-54.4	2.7	0.0	-0.8		0.0	0.0	0.0	6.7	52.2	
P-377	CNEL	98.0		140.1	-53.9	2.6	-2.9	-0.7		0.0	0.0	0.0	6.7	49.8	
P-1101 A	CNEL	98.9		335.7	-61.5	3.1	-8.1	-1.1		0.0	2.0	0.0	6.7	40.0	
P-1103	CNEL	98.9		334.2	-61.5	3.1	-8.2	-1.1		0.0	2.1	0.0	6.7	39.9	
P-1105 A/B/C	CNEL	98.9		341.3	-61.7	3.1	-7.7	-1.1		0.0	2.4	0.0	6.7	40.6	
P-1800	CNEL	98.9		369.8	-62.4	3.5	-9.9	-1.2	-1.53	0.0	5.1	0.0	6.7	39.2	
P-1801	CNEL	98.9		418.7	-63.4	3.7	-4.7	-1.9	-0.96	0.0	0.0	0.0	6.7	38.4	
P-1802	CNEL	98.9		418.3	-63.4	3.7	-4.7	-1.9	-1.14	0.0	0.0	0.0	6.7	38.1	
P-1803	CNEL	99.1		320.9	-61.1	3.3	0.0	-1.5	-1.85	0.0	0.0	0.0	6.7	44.6	
P-1804	CNEL	99.1		332.3	-61.4	3.4	-4.7	-1.6	-2.64	0.0	0.0	0.0	6.7	38.8	
P-1805	CNEL	99.1		335.5	-61.5	3.4	-4.7	-1.6	-2.64	0.0	0.0	0.0	6.7	38.7	
P-1806	CNEL	99.1		296.8	-60.4	3.2	0.0	-1.4	-1.28	0.0	0.0	0.0	6.7	45.8	
P-1809 A	CNEL	98.9		381.3	-62.6	3.5	-6.8	-1.5	-0.97	0.0	0.2	0.0	6.7	37.5	
P-1810 A/B/C	CNEL	99.0		339.1	-61.6	3.5	-4.6	-1.6	-2.65	0.0	0.0	0.0	6.7	38.7	
P-1811 A/B	CNEL	99.1		303.6	-60.6	3.2	0.0	-1.5	-1.41	0.0	0.0	0.0	6.7	45.5	
P-1811 A/B	CNEL	99.1		339.3	-61.6	3.4	-4.3	-1.7	-2.63	0.0	0.0	0.0	6.7	38.9	
P-1847 A/B	CNEL	99.4		328.5	-61.3	3.5	0.0	-1.6		0.0	2.4	0.0	6.7	49.0	
P-1849 A/B	CNEL	99.4		334.8	-61.5	3.5	0.0	-1.6		0.0	0.0	0.0	6.7	46.5	
P-1853	CNEL	99.1		194.1	-56.8	2.4	0.0	-1.0		0.0	0.0	0.0	6.7	50.4	
Piping Furnace Tanks	CNEL	87.1	72	204.9	-57.2	2.6	-0.1	-6.3		0.0	0.6	0.0	6.7	33.3	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	184.9	-56.3	2.5	-0.3	-6.0		0.0	0.0	0.0	6.7	45.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	188.5	-56.5	2.7	-13.0	-1.6		0.0	0.1	0.0	6.7	52.9	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	188.7	-56.5	2.7	-15.8	-4.7		0.0	0.9	0.0	6.7	48.5	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	411.2	-63.3	2.9	-21.5	-1.4		0.0	0.1	0.0	6.7	34.0	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	392.8	-62.9	2.8	-13.9	-1.3		0.0	3.5	0.0	6.7	46.1	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	364.2	-62.2	2.7	-9.3	-1.3		0.0	0.4	0.0	6.7	41.0	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	383.5	-62.7	2.8	-4.7	-1.6		0.0	0.0	0.0	6.7	51.7	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	359.9	-62.1	2.7	0.0	-1.7		0.0	0.7	0.0	6.7	50.3	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	369.9	-62.4	2.8	-5.6	-1.5		0.0	0.0	0.0	6.7	43.7	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	357.6	-62.1	2.7	0.0	-1.7		0.0	0.0	0.0	6.7	52.3	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	362.8	-62.2	2.7	-4.1	-1.6		0.0	0.9	0.0	6.7	48.5	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	385.8	-62.7	2.5	-4.9	-1.8		0.0	0.1	0.0	6.7	53.0	
PSA Pipe 3" Lagging	CNEL	80.6	11	198.6	-57.0	2.5	-0.5	-1.9		0.0	0.0	0.0	6.7	30.3	
PSA Skid Additional Piping w NC	CNEL	116.6	57	186.9	-56.4	2.7	-13.5	-1.6		0.0	0.1	0.0	6.7	54.7	
Reformer-Burner Reformer East	CNEL	97.3	269	227.5	-58.1	2.5	-19.6	-1.0		0.0	6.9	0.0	6.7	37.7	
Reformer-Burner Reformer North	CNEL	95.9	192	215.9	-57.7	2.5	0.0	-1.7		0.0	0.0	0.0	6.7	45.7	
Reformer-Burner Reformer South	CNEL	95.8	191	229.6	-58.2	2.6	-17.5	-1.0		0.0	0.6	0.0	6.7	32.0	
Reformer-Burner Reformer West	CNEL	97.3	268	217.8	-57.8	2.5	-0.2	-1.6		0.0	0.0	0.0	6.7	49.9	
RFG A from battery to process	CNEL	99.4	87	189.6	-56.5	2.5	-0.4	-6.1		0.0	0.0	0.0	6.7	45.6	
RFG A from battery to process w NC	CNEL	115.2	42	191.0	-56.6	2.7	-14.0	-5.1		0.0	1.2	0.0	6.7	50.1	
Stack Noise	CNEL	108.4		252.3	-59.0	2.6	-0.5	-1.7		-7.1	0.0	0.0	6.7	49.4	
Steam Turbine-Facade 01	CNEL	99.6	29	169.4	-55.6	2.7	-0.7	-4.5		0.0	0.1	0.0	6.7	48.2	
Steam Turbine-Facade 02	CNEL	96.2	13	173.2	-55.8	2.7	-12.2	-2.3		0.0	0.7	0.0	6.7	36.0	
Steam Turbine-Facade 03	CNEL	99.6	29	172.5	-55.7	2.7	-15.7	-2.2		0.0	12.6	0.0	6.7	48.0	
Steam Turbine-Facade 04	CNEL	96.2	13	168.7	-55.5	2.7	0.0	-4.0		0.0	0.1	0.0	6.7	46.2	
Steam Turbine-Roof 01	CNEL	99.7	30	170.9	-55.6	2.7	-4.3	-4.3		0.0	2.2	0.0	6.7	47.1	
Tank Farm Pump 1	CNEL	99.0	3	324.8	-61.2	3.2	-4.7	-2.3		0.0	0.0	0.0	6.7	40.6	
Tank Farm Pump 2	CNEL	99.0	3	344.6	-61.7	3.3	-2.8	-3.0		0.0	0.0	0.0	6.7	41.4	
Tank Farm Pump 3	CNEL	99.0	3	350.1	-61.9	3.4	-2.5	-3.1		0.0	0.0	0.0	6.7	41.5	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	122.2	-52.7	1.3	0.0	-1.8		0.0	0.1	-13.8	0.0	45.4	
XF-1502 Splitter Area 1	CNEL	104.5		168.4	-55.5	2.4	0.0	-1.2	-0.16	-4.3	0.0	0.0	6.7	52.4	
XF-1502 Splitter Area 2	CNEL	104.5		164.7	-55.3	2.3	0.0	-1.2	-0.12	-4.3	0.0	0.0	6.7	52.6	
XF-1504 Splitter Area 1	CNEL	104.5		169.2	-55.6	2.4	-4.9	-0.8	0.00	-3.8	0.0	0.0	6.7	48.5	
XF-1504 Splitter Area 2	CNEL	104.5		165.6	-55.4	2.4	-5.3	-0.9	0.00	-3.7	0.0	0.0	6.7	48.3	
XF 251, 250, 271, 270	CNEL	101.1	128	195.0	-56.8	2.1	0.0	-0.8		-2.9	0.0	0.0	6.7	49.4	
XF 260, 261A, 261 B	CNEL	99.9	97	143.2	-54.1	1.9	0.0	-0.6		-3.0	0.0	0.0	6.7	50.7	
XF 304, XF 321	CNEL	110.5	56	197.1	-56.9	2.3	-0.5	-0.7	-0.18	-2.8	0.1	0.0	6.7	58.5	
XF 313, XF 314	CNEL	113.0	18	227.4	-58.1	2.4	-4.9	-0.9	-0.82	-3.7	0.0	0.0	6.7	53.7	
XF 335-1, XF 335-2	CNEL	113.4	54	209.1	-57.4	2.4	-3.6	-1.0	-0.19	-2.9	0.5	0.0	6.7	57.9	
XF 353A/B	CNEL	95.4	35	269.2	-59.6	2.3	0.0	-1.0	-0.02	-2.9	0.0	0.0	6.7	40.9	
XF 353A/B	CNEL	95.4	35	257.6	-59.2	2.3	0.0	-1.0	-0.01	-2.9	0.0	0.0	6.7	41.4	
XF 354A/B	CNEL	95.4	35	241.1	-58.6	1.9	-0.4	-0.9	0.00	-2.9	0.0	0.0	6.7	41.2	
XF 503	CNEL	113.0	21	144.2	-54.2	2.1	0.0	-2.2	-1.03	-3.9	0.0	0.0	6.7	60.5	
XF - 1601	CNEL	96.6		163.4	-55.3	2.4	0.0	-0.6		-2.6	0.0	0.0	6.7	47.2	
XF - 1602	CNEL	96.6		165.3	-55.4	2.4	0.0	-0.6		-2.5	0.0	0.0	6.7	47.2	
XF Module 1510	CNEL	108.3		159.9	-55.1	2.3	0.0	-1.2	-0.10	-4.3	0.0	0.0	6.7	56.7	
XF Module 1519	CNEL	109.0		165.2	-55.4	2.3	0.0	-1.2	-0.21	-4.3	0.0	0.0	6.7	57.0	
xxxx xxxx xxxx xxxx	CNEL		606								2.4			27.2	
xxxx xxxx xxxx xxxx	CNEL		606								2.4			27.6	
xxxx xxxx xxxx xxxx	CNEL		917								1.6			38.7	
xxxx xxxx xxxx xxxx	CNEL		917								0.8			38.2	
xxxx xxxx xxxx xxxx	CNEL		608								1.3			39.5	
xxxx xxxx xxxx xxxx	CNEL		608								1.5			39.4	
xxxx xxxx xxxx xxxx	CNEL		228								2.1			32.4	
xxxx xxxx xxxx xxxx	CNEL		520								2.1			37.4	
xxxx xxxx xxxx xxxx	CNEL		1341								3.1			46.8	
xxxx xxxx xxxx xxxx	CNEL		450								3.1			30.6	
Receiver SS-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.3 dB(A) Ld 7-19 dB(A) Leq,N 65.5 dB(A) Le 19-22 dB(A) CNEL 72.3 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	244.1	-58.7	3.5	-18.0	-1.2		0.0	0.1	0.0	6.7	36.6	
18-1855 A/B	CNEL	98.8		189.1	-56.5	3.4	0.0	-1.0		0.0	0.0	0.0	6.7	51.3	
18-1856 A/B	CNEL	98.8		195.4	-56.8	3.5	0.0	-1.0	-0.09	0.0	0.0	0.0	6.7	51.0	
18-1857 A/B	CNEL	98.8		183.1	-56.2	3.4	0.0	-1.0		0.0	0.3	0.0	6.7	51.9	
18-1858 A/B	CNEL	98.8		178.9	-56.0	3.0	0.0	-1.0		0.0	0.4	0.0	6.7	51.8	
18-PK 1802 Air Compressor Package	CNEL	103.1		197.1	-56.9	2.8	0.0	-0.8	-0.70	0.0	0.0	0.0	6.7	54.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	81.8	-49.3	1.2	-0.1	-1.8		0.0	0.1	-4.8	1.0	55.5	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Air Compressor C 1	CNEL	110.0	5	221.5	-57.9	3.3	-12.2	-0.5	-1.18	0.0	1.8	0.0	6.7	50.0
Air Compressor Pump	CNEL	100.3		120.1	-52.6	2.3	-18.1	-1.5		0.0	6.7	0.0	6.7	43.9
Blower F 401	CNEL	113.0		109.4	-51.8	0.5	-13.0	-0.2		0.0	0.0	0.0	6.7	55.2
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.0	-58.8	2.1	-1.3	-1.5		0.0	0.0	0.0	6.7	45.7
Boiler Feed Water Pump A	CNEL	97.1	3	207.1	-57.3	3.4	-6.2	-0.8		0.0	0.0	0.0	6.7	42.9
Boiler Feed Water Pump B	CNEL	97.1	3	205.4	-57.2	3.4	-4.9	-0.9		0.0	0.0	0.0	6.7	44.2
C370 A Motor	CNEL	103.6	3	152.5	-54.7	2.2	-7.9	-0.8		0.0	3.6	0.0	6.7	52.7
C370 B Motor	CNEL	108.6	3	158.9	-55.0	2.2	-9.2	-0.7		0.0	2.5	0.0	6.7	55.0
C370A	CNEL	103.8	5	156.1	-54.9	2.2	-5.6	-0.9		0.0	2.7	0.0	6.7	54.0
C370B	CNEL	103.8	5	162.4	-55.2	2.2	-8.0	-0.8		0.0	3.6	0.0	6.7	52.3
C-270 A	CNEL	106.3	6	212.5	-57.5	2.3	-4.5	-1.3	-0.15	0.0	1.6	0.0	6.7	53.4
C-270 B	CNEL	106.3	6	207.6	-57.3	2.2	-4.9	-1.3	-0.04	0.0	1.6	0.0	6.7	53.2
C-270 C	CNEL	106.3	6	202.8	-57.1	2.2	-5.5	-1.3		0.0	1.1	0.0	6.7	52.2
C-301 Compressor	CNEL	106.8	3	231.4	-58.3	2.6	-0.7	-1.6	-1.33	0.0	0.0	0.0	6.7	54.2
C-301 Motor	CNEL	106.8	4	227.7	-58.1	2.7	0.0	-2.4	-1.30	0.0	0.1	0.0	6.7	54.4
C-351 Compressor	CNEL	106.8	4	232.0	-58.3	2.5	-0.2	-1.7	-0.54	0.0	0.0	0.0	6.7	55.2
C-351 Motor	CNEL	106.8	5	231.6	-58.3	2.2	-4.0	-2.3	-0.56	0.0	0.0	0.0	6.7	50.5
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.6	-49.9	0.5	-0.6	-0.3		0.0	0.2	-35.6	0.0	49.0
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.3	-54.9	1.4	-10.1	-0.8	-0.72	4.1	3.0	0.0	6.7	53.4
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	160.9	-55.1	1.6	-0.1	-1.4	-0.89	0.0	0.0	0.0	6.7	51.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.4	-55.5	1.5	-16.9	-0.4	-0.55	-7.8	8.3	0.0	6.7	41.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.5	-55.0	1.3	-10.1	-0.8	-0.21	0.7	0.0	0.0	6.7	53.1
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.0	-55.0	1.5	-8.8	-0.7	-0.78	0.4	0.2	0.0	6.7	47.2
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.0	-55.4	1.4	-14.5	-0.4		-6.1	2.9	0.0	6.7	34.9
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.3	-54.7	2.2	-15.6	-0.4		-2.5	0.0	0.0	6.7	33.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	151.9	-54.6	2.0	0.0	-1.2		1.6	0.0	0.0	6.7	52.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.5	-54.9	2.0	-18.3	-0.5		-4.8	0.2	0.0	6.7	30.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.1	-2.9	-1.1		4.7	0.0	0.0	6.7	55.4
Cooling Tower M 512	CNEL	95.7		146.1	-54.3	2.8	-5.9	-0.7		0.0	0.3	0.0	6.7	44.6
Cooling Tower M 513	CNEL	95.7		145.8	-54.3	2.7	0.0	-0.8		0.0	2.4	0.0	6.7	52.4
Cooling Tower M 514	CNEL	95.7		146.1	-54.3	2.8	-9.2	-0.6		0.0	0.5	0.0	6.7	41.5
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	215.2	-57.7	1.5	-3.3	-1.4		-3.4	1.8	0.0	6.7	40.0
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	241.3	-58.6	3.1	-13.0	-0.1		0.0	0.0	0.0	6.7	33.4
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	242.1	-58.7	3.2	-14.9	-0.1		0.0	0.8	0.0	6.7	30.1
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	240.6	-58.6	2.3	-13.5	-0.1		0.0	0.2	0.0	6.7	30.4
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	238.9	-58.6	3.0	-12.1	-0.1		0.0	0.1	0.0	6.7	32.3
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	239.6	-58.6	3.1	-12.7	-0.1		0.0	0.0	0.0	6.7	33.8
FD Motor	CNEL	103.3	2	242.2	-58.7	3.5	-22.8	-1.9		0.0	0.6	0.0	6.7	30.8
Feed Compressor -B Motor	CNEL	103.8	5	174.3	-55.8	2.2	-8.0	-1.3		0.0	3.4	0.0	6.7	51.0
Feed Compressor-A Compressor	CNEL	104.0	5	167.4	-55.5	2.2	-10.8	-0.7		0.0	5.7	0.0	6.7	51.6
Feed Compressor-A Motor	CNEL	103.8	6	163.9	-55.3	2.2	-8.4	-1.2		0.0	3.3	0.0	6.7	51.1
Feed Compressor-B Compressor	CNEL	104.0	7	178.1	-56.0	2.3	-7.6	-1.0		0.0	3.9	0.0	6.7	52.4
H2S Compressor 18-C-271	CNEL	105.3	6	186.5	-56.4	2.8	-7.8	-0.9	-1.10	0.0	3.2	0.0	6.7	51.8
Heater # 5-Heater	CNEL	91.1	13	243.6	-58.7	2.2	-10.1	-0.6		0.0	0.0	0.0	6.7	33.5
Heater # 5-Heater	CNEL	91.1	13	238.6	-58.5	2.2	-6.4	-0.9		0.0	0.0	0.0	6.7	37.1
Heater # 5-Heater	CNEL	91.1	13	248.5	-58.9	2.3	-11.9	-0.6		0.0	0.0	0.0	6.7	31.6
Hydro Heater H-402	CNEL	98.1		145.7	-54.3	1.9	-2.5	-0.6		0.0	0.0	0.0	6.7	49.3
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	243.5	-58.7	3.7	-10.5	0.0		0.0	0.0	0.0	6.7	28.1
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	241.9	-58.7	3.7	-10.6	0.0		0.0	0.0	0.0	6.7	28.3
ID Fan-ID Fan - North	CNEL	92.2	8	242.8	-58.7	3.7	-10.9	0.0		0.0	0.0	0.0	6.7	32.9
ID Fan-ID Fan - North 2	CNEL	91.4	7	244.1	-58.7	3.7	-10.9	0.0		0.0	0.0	0.0	6.7	32.1
ID Fan-ID Fan - South	CNEL	92.3	9	240.6	-58.6	3.7	-3.6	-0.1		0.0	0.0	0.0	6.7	40.4
ID Fan-ID Fan - South 2	CNEL	91.4	7	243.1	-58.7	3.7	-5.1	-0.1		0.0	0.0	0.0	6.7	37.8
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	242.2	-58.7	3.1	-5.1	-0.1		0.0	0.0	0.0	6.7	39.9
Motor & Pump P 56A/B	CNEL	93.7		162.4	-55.2	2.9	-8.7	-0.9	-1.16	0.0	0.0	0.0	6.7	37.4
Motor & Pump P 120/121	CNEL	96.2	2	208.7	-57.4	3.4	-17.6	-0.7	-1.20	0.0	2.9	0.0	6.7	32.3
Motor & Pump P 211/212	CNEL	93.7		141.6	-54.0	2.6	-4.6	-1.3	-0.61	0.0	0.2	0.0	6.7	42.6
Motor & Pump P 215/214	CNEL	94.6		146.6	-54.3	2.8	-7.5	-0.9	-0.74	0.0	1.1	0.0	6.7	41.7
Motor & Pump P 216	CNEL	98.3		143.9	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.2	0.0	6.7	51.5
Motor & Pump P 217/218	CNEL	93.7		143.5	-54.1	3.1	-5.0	-1.3	-0.65	0.0	0.1	0.0	6.7	42.5
Motor & Pump P 300	CNEL	97.1	2	213.1	-57.6	3.4	-15.8	-0.7	-1.21	0.0	0.0	0.0	6.7	31.9
Motor & Pump P 301	CNEL	102.1	2	211.4	-57.5	3.4	-15.5	-0.7	-1.21	0.0	0.0	0.0	6.7	37.3
Motor & Pump P 302	CNEL	97.1	2	214.8	-57.6	3.4	-16.6	-0.7	-1.21	0.0	0.2	0.0	6.7	31.3
Motor & Pump P 303	CNEL	97.1	2	216.3	-57.7	3.4	-16.5	-0.7	-1.21	0.0	0.4	0.0	6.7	31.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 305	CNEL	97.5	2	217.8	-57.8	3.4	-16.2	-0.7	-1.21	0.0	0.2	0.0	6.7	31.9
Motor & Pump P 306	CNEL	112.6	4	226.7	-58.1	3.0	-15.4	-0.7	-0.93	0.0	0.6	0.0	6.7	47.8
Motor & Pump P 307	CNEL	102.1	2	206.6	-57.3	3.4	-7.8	-0.9	-1.19	0.0	0.0	0.0	6.7	45.0
Motor & Pump P 309	CNEL	97.5	2	219.3	-57.8	3.4	-16.0	-0.7	-1.22	0.0	0.3	0.0	6.7	32.2
Motor & Pump P 312	CNEL	101.5	2	185.1	-56.3	3.3	-5.9	-0.7	-1.20	0.0	1.3	0.0	6.7	48.7
Motor & Pump P 313	CNEL	101.5	2	183.4	-56.3	3.3	-5.9	-0.7	-1.20	0.0	1.4	0.0	6.7	48.8
Motor & Pump P 315	CNEL	102.9	2	177.2	-56.0	3.1	-4.1	-0.8	-1.19	0.0	0.9	0.0	6.7	51.5
Motor & Pump P 316	CNEL	102.9	2	175.2	-55.9	3.1	-4.4	-0.8	-1.20	0.0	0.7	0.0	6.7	51.1
Motor & Pump P 317	CNEL	102.9	2	173.3	-55.8	3.0	-4.7	-0.7	-1.20	0.0	0.5	0.0	6.7	50.6
Motor & Pump P 318	CNEL	100.2	1	179.0	-56.0	3.4	-5.4	-0.7	-1.20	0.0	1.1	0.0	6.7	48.0
Motor & Pump P 319	CNEL	100.2	1	180.4	-56.1	3.4	-6.1	-0.7	-1.21	0.0	1.2	0.0	6.7	47.4
Motor & Pump P 327	CNEL	111.2	3	234.7	-58.4	3.7	-21.5	-1.4	-1.16	0.0	1.2	0.0	6.7	40.3
Motor & Pump P 328	CNEL	109.9	5	221.0	-57.9	3.3	-15.3	-0.7	-0.99	0.0	0.3	0.0	6.7	45.3
Motor & Pump P 329	CNEL	110.2	5	223.8	-58.0	3.3	-16.0	-0.8	-0.92	0.0	0.5	0.0	6.7	45.0
Motor & Pump P 451	CNEL	93.7		138.7	-53.8	2.6	-7.0	-0.8		0.0	0.0	0.0	6.7	41.2
Motor & Pump P 453	CNEL	93.7		126.9	-53.1	2.3	0.0	-1.3		0.0	0.0	0.0	6.7	48.3
Motor & Pump P 454	CNEL	93.7		139.3	-53.9	2.6	0.0	-1.4		0.0	0.0	0.0	6.7	47.6
Motor & Pump P 457	CNEL	93.7		125.4	-53.0	2.3	0.0	-1.3		0.0	0.0	0.0	6.7	48.4
Motor & Pump P 458	CNEL	93.7		138.7	-53.8	2.6	-4.5	-1.1		0.0	0.0	0.0	6.7	43.4
Motor & Pump P 459	CNEL	93.7		140.3	-53.9	2.6	0.0	-1.4		0.0	0.0	0.0	6.7	47.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.2	-55.5	3.2	-9.3	-0.9		0.0	0.1	0.0	6.7	40.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		168.9	-55.5	3.2	-7.4	-1.0		0.0	0.0	0.0	6.7	42.1
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.7	-57.1	3.6	-5.0	-1.5	-0.80	0.0	0.0	0.0	6.7	41.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		203.8	-57.2	3.6	-4.8	-1.5	-0.83	0.0	0.0	0.0	6.7	41.3
Motor & Pump P 1601 A	CNEL	96.3	2	170.7	-55.6	2.9	-17.6	-0.9		0.0	0.0	0.0	6.7	31.8
Motor & Pump P 1601 B	CNEL	96.3	2	171.0	-55.7	2.9	-13.4	-0.9		0.0	0.0	0.0	6.7	35.9
Motor & Pump P 1602 A	CNEL	96.3	2	171.0	-55.7	2.9	-15.5	-0.9		0.0	0.0	0.0	6.7	33.9
Motor & Pump P 1602 B	CNEL	96.5	2	171.4	-55.7	2.9	-17.2	-0.9		0.0	0.0	0.0	6.7	32.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.2	-55.5	3.3	-13.3	-0.9	-0.08	0.0	0.0	0.0	6.7	36.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.1	-55.8	3.3	-11.4	-0.9	-0.19	0.0	0.0	0.0	6.7	38.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.5	-55.9	3.4	-10.7	-0.9	-0.24	0.0	0.0	0.0	6.7	38.9
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.4	-55.6	3.2	-4.9	-1.2		0.0	0.0	0.0	6.7	44.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.2	-55.7	3.2	-4.6	-1.3		0.0	0.0	0.0	6.7	45.1
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.3	-56.2	3.5	-17.3	-1.0	-0.21	0.0	0.0	0.0	6.7	31.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.0	-56.1	3.4	-13.4	-0.8	-0.35	0.0	0.0	0.0	6.7	35.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.6	-56.1	3.4	-10.2	-1.0	-0.35	0.0	0.0	0.0	6.7	38.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	3.4	-12.3	-0.9	-0.35	0.0	0.0	0.0	6.7	36.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	219.6	-57.8	3.2	-10.7	-0.8		0.0	0.0	0.0	6.7	44.7
P-2 A/B	CNEL	98.5		328.0	-61.3	3.8	-5.4	-1.5		0.0	0.4	0.0	6.7	41.1
P-50 A/B	CNEL	98.1		290.8	-60.3	3.7	-22.3	-1.2	-0.22	0.0	0.0	0.0	6.7	24.6
P-51 A/B	CNEL	98.1		290.6	-60.3	3.7	-15.3	-1.0	-0.23	0.0	0.0	0.0	6.7	31.7
P-060 A/B	CNEL	98.1		291.4	-60.3	3.8	-22.5	-1.2	-1.74	0.0	0.4	0.0	6.7	23.2
P-63	CNEL	98.5		297.3	-60.5	3.6	-4.3	-1.4	-1.47	0.0	0.1	0.0	6.7	41.3
P-70 A/B	CNEL	98.1		291.1	-60.3	3.8	-20.9	-1.1	-1.75	0.0	0.0	0.0	6.7	24.5
P-73 A/B	CNEL	98.5		323.5	-61.2	3.7	-5.4	-1.5		0.0	0.0	0.0	6.7	40.9
P-251 A/B	CNEL	98.2		157.8	-55.0	3.3	0.0	-0.9	-0.20	0.0	0.0	0.0	6.7	52.2
P-252 A/B	CNEL	98.2		164.0	-55.3	3.5	0.0	-0.9	-0.73	0.0	1.0	0.0	6.7	52.4
P-253	CNEL	98.2		171.7	-55.7	3.5	0.0	-0.9	-0.77	0.0	1.0	0.0	6.7	52.0
P-254 A/B	CNEL	98.2		169.2	-55.6	3.4	0.0	-0.9	-0.45	0.0	0.0	0.0	6.7	51.4
P-255 A/B	CNEL	98.2		165.8	-55.4	3.4	0.0	-0.9	-0.37	0.0	0.0	0.0	6.7	51.6
P-255 A/B	CNEL	98.2		150.6	-54.5	3.3	0.0	-0.8	-0.04	0.0	0.0	0.0	6.7	52.7
P-256 A/B	CNEL	98.2		161.3	-55.1	3.4	0.0	-0.9	-0.28	0.0	0.0	0.0	6.7	51.9
P-259 A/B	CNEL	98.2		154.3	-54.8	3.3	0.0	-0.9	-0.12	0.0	0.0	0.0	6.7	52.4
P-260	CNEL	99.1		144.9	-54.2	3.3	0.0	-0.8	-0.64	0.0	0.0	0.0	6.7	53.4
P-261 A/B	CNEL	98.0		121.9	-52.7	3.1	0.0	-0.7	-0.11	0.0	0.1	0.0	6.7	54.3
P-262 A/B	CNEL	99.1		136.6	-53.7	3.2	0.0	-0.8	-0.46	0.0	0.0	0.0	6.7	54.1
P-263 A/B	CNEL	99.4		140.7	-54.0	3.3	0.0	-0.8	-0.56	0.0	0.0	0.0	6.7	54.0
P-270 A/B	CNEL	98.5		212.5	-57.5	3.6	0.0	-1.1	-0.99	0.0	1.8	0.0	6.7	50.9
P-271 A/B	CNEL	98.2		179.1	-56.1	3.5	0.0	-1.0	-0.67	0.0	0.5	0.0	6.7	51.1
P-272 A/B	CNEL	98.2		174.3	-55.8	3.4	0.0	-1.0	-0.56	0.0	0.0	0.0	6.7	51.0
P-273 A/B	CNEL	98.5		208.9	-57.4	3.6	0.0	-1.1	-0.91	0.0	1.5	0.0	6.7	50.9
P-275 A/B/C	CNEL	98.2		183.0	-56.2	3.6	0.0	-1.0	-0.86	0.0	0.0	0.0	6.7	50.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-305	CNEL	99.3		223.9	-58.0	3.3	-18.9	-0.7	-0.10	0.0	0.3	0.0	6.7	31.9
P-306	CNEL	100.8		233.8	-58.4	3.3	-19.2	-0.7	-0.33	0.0	0.0	0.0	6.7	32.2
P-309	CNEL	99.3		226.3	-58.1	3.3	-18.5	-0.7	-0.16	0.0	0.3	0.0	6.7	32.0
P-328	CNEL	100.8		239.6	-58.6	3.4	-18.4	-0.7	-0.46	0.0	0.0	0.0	6.7	32.6
P-329	CNEL	100.8		236.8	-58.5	3.3	-18.8	-0.7	-0.40	0.0	0.0	0.0	6.7	32.4
P-353	CNEL	98.5		225.3	-58.0	3.0	-1.2	-1.4	-0.14	0.0	0.0	0.0	6.7	47.4
P-358 A/B	CNEL	99.4		245.9	-58.8	3.6	-12.6	-0.8	-0.91	0.0	0.0	0.0	6.7	36.6
P-359 A/B	CNEL	99.4		245.7	-58.8	3.6	-1.7	-1.6	-0.84	0.0	0.0	0.0	6.7	46.7
P-360 A/B	CNEL	99.4		245.4	-58.8	3.5	-1.9	-1.6	-0.56	0.0	0.0	0.0	6.7	46.8
P-361A	CNEL	98.1		293.1	-60.3	3.6	-1.6	-1.4	-2.54	0.0	0.0	0.0	6.7	42.4
P-371 A/B	CNEL	98.0		135.7	-53.6	2.8	-5.5	-0.5		0.0	0.1	0.0	6.7	47.9
P-373 A/B	CNEL	98.0		145.1	-54.2	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.6
P-374 A/B	CNEL	98.0		143.2	-54.1	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.7
P-375 A/B	CNEL	98.0		139.5	-53.9	2.9	-2.6	-0.7		0.0	0.0	0.0	6.7	50.4
P-376	CNEL	98.0		142.0	-54.0	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.8
P-376 A/B	CNEL	98.0		147.2	-54.4	3.0	0.0	-0.8		0.0	0.0	0.0	6.7	52.5
P-377	CNEL	98.0		141.1	-54.0	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.8
P-1101 A	CNEL	98.9		318.8	-61.1	3.5	-6.8	-1.2		0.0	0.7	0.0	6.7	40.7
P-1103	CNEL	98.9		317.3	-61.0	3.5	-7.0	-1.2		0.0	0.7	0.0	6.7	40.5
P-1105 A/B/C	CNEL	98.9		324.4	-61.2	3.5	-6.4	-1.3		0.0	0.8	0.0	6.7	41.0
P-1800	CNEL	98.9		351.6	-61.9	3.7	-14.2	-1.2	-1.40	0.0	6.2	0.0	6.7	36.7
P-1801	CNEL	98.9		400.7	-63.0	3.9	-10.2	-1.4	-1.50	0.0	0.0	0.0	6.7	33.2
P-1802	CNEL	98.9		400.5	-63.0	3.9	-10.3	-1.4	-1.50	0.0	0.0	0.0	6.7	33.2
P-1803	CNEL	99.1		305.8	-60.7	4.0	-4.7	-1.5	-2.19	0.0	0.0	0.0	6.7	40.7
P-1804	CNEL	99.1		316.5	-61.0	3.9	-4.8	-1.6	-2.10	0.0	0.0	0.0	6.7	40.3
P-1805	CNEL	99.1		319.7	-61.1	3.9	-4.7	-1.6	-2.06	0.0	0.0	0.0	6.7	40.2
P-1806	CNEL	99.1		281.9	-60.0	3.9	0.0	-1.4	-1.55	0.0	0.0	0.0	6.7	46.7
P-1809 A	CNEL	98.9		363.3	-62.2	3.8	-14.2	-1.2	-1.51	0.0	0.2	0.0	6.7	30.4
P-1810 A/B/C	CNEL	99.0		323.7	-61.2	4.0	-4.9	-1.6	-2.64	0.0	0.0	0.0	6.7	39.4
P-1811 A/B	CNEL	99.1		288.7	-60.2	4.0	0.0	-1.5	-1.67	0.0	0.0	0.0	6.7	46.4
P-1811 A/B	CNEL	99.1		323.5	-61.2	3.9	-4.8	-1.6	-2.00	0.0	0.0	0.0	6.7	40.1
P-1847 A/B	CNEL	99.4		316.7	-61.0	4.2	0.0	-1.6	-0.54	0.0	2.1	0.0	6.7	49.3
P-1849 A/B	CNEL	99.4		322.8	-61.2	4.2	0.0	-1.6	-0.61	0.0	1.7	0.0	6.7	48.7
P-1853	CNEL	99.1		176.3	-55.9	3.1	-3.5	-1.2		0.0	0.1	0.0	6.7	48.2
Piping Furnace Tanks	CNEL	87.1	72	202.5	-57.1	2.1	-1.5	-6.4		0.0	0.7	0.0	6.7	31.5
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	181.8	-56.2	2.1	-1.6	-6.3		0.0	0.1	0.0	6.7	43.1
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	190.0	-56.6	2.4	-12.9	-1.5		0.0	0.4	0.0	6.7	53.1
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	189.9	-56.6	2.4	-16.5	-4.3		0.0	1.0	0.0	6.7	47.9
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	397.4	-63.0	2.8	-22.3	-1.5		0.0	0.1	0.0	6.7	33.3
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	380.0	-62.6	2.8	-14.8	-1.3	0.00	0.0	4.3	0.0	6.7	46.2
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	351.5	-61.9	2.7	-10.2	-1.3	-0.01	0.0	0.5	0.0	6.7	40.5
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	369.2	-62.3	2.6	-6.9	-1.5		0.0	0.1	0.0	6.7	49.8
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	346.4	-61.8	2.3	0.0	-1.7		0.0	0.1	0.0	6.7	49.6
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	357.2	-62.1	2.7	-6.5	-1.5	-0.05	0.0	0.0	0.0	6.7	43.0
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	344.6	-61.7	2.6	0.0	-1.7	-0.71	0.0	0.0	0.0	6.7	51.8
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	349.0	-61.8	2.6	-6.1	-1.5	-0.17	0.0	1.7	0.0	6.7	47.4
Pre-Treat Train-Roof 01	CNEL	113.1	2037	372.3	-62.4	1.7	-5.0	-1.7		0.0	0.1	0.0	6.7	52.4
PSA Pipe 3" Lagging	CNEL	80.6	11	198.6	-56.9	2.1	-0.9	-1.9		0.0	0.1	0.0	6.7	29.6
PSA Skid Additional Piping w NC	CNEL	116.6	57	188.6	-56.5	2.4	-13.6	-1.5		0.0	0.2	0.0	6.7	54.3
Reformer-Burner Reformer East	CNEL	97.3	269	225.0	-58.0	2.0	-19.1	-1.0		0.0	0.4	0.0	6.7	31.2
Reformer-Burner Reformer North	CNEL	95.9	192	213.7	-57.6	2.0	-0.8	-1.7		0.0	0.0	0.0	6.7	44.5
Reformer-Burner Reformer South	CNEL	95.8	191	226.0	-58.1	2.0	-16.9	-1.0		0.0	0.5	0.0	6.7	32.0
Reformer-Burner Reformer West	CNEL	97.3	268	214.5	-57.6	2.0	-1.1	-1.8		0.0	0.0	0.0	6.7	48.5
RFG A from battery to process	CNEL	99.4	87	186.2	-56.4	2.1	-1.8	-6.5		0.0	0.1	0.0	6.7	43.6
RFG A from battery to process w NC	CNEL	115.2	42	192.4	-56.7	2.4	-14.8	-4.5		0.0	1.2	0.0	6.7	49.5
Stack Noise	CNEL	108.4		247.6	-58.9	1.6	-0.7	-2.1		-7.6	0.0	0.0	6.7	47.5
Steam Turbine-Facade 01	CNEL	99.6	29	170.3	-55.6	2.9	0.0	-4.1		0.0	0.0	0.0	6.7	49.4
Steam Turbine-Facade 02	CNEL	96.2	13	173.8	-55.8	3.0	-13.3	-2.1		0.0	1.3	0.0	6.7	36.0
Steam Turbine-Facade 03	CNEL	99.6	29	173.7	-55.8	3.0	-18.3	-1.8		0.0	13.8	0.0	6.7	47.1
Steam Turbine-Facade 04	CNEL	96.2	13	170.2	-55.6	2.9	0.0	-4.1		0.0	1.0	0.0	6.7	47.0
Steam Turbine-Roof 01	CNEL	99.7	30	172.3	-55.7	2.3	-4.8	-4.2		0.0	2.6	0.0	6.7	46.6
Tank Farm Pump 1	CNEL	99.0	3	314.2	-60.9	4.1	-2.2	-2.1		0.0	0.0	0.0	6.7	44.5
Tank Farm Pump 2	CNEL	99.0	3	333.6	-61.5	4.1	0.0	-2.4	-0.16	0.0	0.0	0.0	6.7	45.7
Tank Farm Pump 3	CNEL	99.0	3	339.0	-61.6	4.1	0.0	-2.5	-0.21	0.0	0.0	0.0	6.7	45.5
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	124.8	-52.9	1.2	-0.1	-1.8		0.0	0.2	-13.8	0.0	45.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF-1502 Splitter Area 1	CNEL	104.5		177.4	-56.0	1.8	0.0	-1.3	-0.25	-4.4	0.0	0.0	6.7	51.0	
XF-1502 Splitter Area 2	CNEL	104.5		173.6	-55.8	1.8	0.0	-1.3	-0.17	-4.4	0.0	0.0	6.7	51.3	
XF-1504 Splitter Area 1	CNEL	104.5		177.8	-56.0	1.9	-13.5	-0.7	0.00	-3.3	0.0	0.0	6.7	39.6	
XF-1504 Splitter Area 2	CNEL	104.5		174.1	-55.8	1.8	-3.0	-1.2	-0.17	-4.2	0.0	0.0	6.7	48.6	
XF 251, 250, 271, 270	CNEL	101.1	128	180.5	-56.1	1.0	0.0	-0.8	-0.47	-3.3	0.0	0.0	6.7	48.1	
XF 260, 261A, 261 B	CNEL	99.9	97	129.8	-53.3	1.0	0.0	-0.6	-0.20	-3.2	0.0	0.0	6.7	50.3	
XF 304, XF 321	CNEL	110.5	56	211.8	-57.5	1.1	-0.8	-1.0	-1.43	-3.6	0.2	0.0	6.7	54.1	
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	1.5	-4.7	-1.1	-1.44	-3.9	0.1	0.0	6.7	51.5	
XF 335-1, XF 335-2	CNEL	113.4	54	223.7	-58.0	1.3	-3.9	-1.1	-1.31	-3.2	0.4	0.0	6.7	54.4	
XF 353A/B	CNEL	95.4	35	252.5	-59.0	0.7	-0.2	-1.1	-0.07	-3.6	0.0	0.0	6.7	38.8	
XF 353A/B	CNEL	95.4	35	241.9	-58.7	0.9	-0.2	-1.1	-0.20	-3.6	0.0	0.0	6.7	39.3	
XF 354A/B	CNEL	95.4	35	223.5	-58.0	0.5	-1.2	-0.9	-0.04	-3.3	0.0	0.0	6.7	39.2	
XF 503	CNEL	113.0	21	158.1	-55.0	1.4	-0.4	-2.8	-1.01	-4.3	0.1	0.0	6.7	57.7	
XF - 1601	CNEL	96.6		170.3	-55.6	1.5	-2.7	-0.9		-3.3	0.0	0.0	6.7	42.2	
XF - 1602	CNEL	96.6		171.6	-55.7	1.5	-3.7	-0.8		-3.1	0.0	0.0	6.7	41.4	
XF Module 1510	CNEL	108.3		169.4	-55.6	1.8	0.0	-1.3	-0.10	-4.4	0.0	0.0	6.7	55.5	
XF Module 1519	CNEL	109.0		174.8	-55.8	1.8	0.0	-1.3	-0.20	-4.4	0.0	0.0	6.7	55.8	
xxxx xxxx xxxx xxxx	CNEL		606								2.6			26.9	
xxxx xxxx xxxx xxxx	CNEL		606								2.3			27.0	
xxxx xxxx xxxx xxxx	CNEL		917								1.9			36.7	
xxxx xxxx xxxx xxxx	CNEL		917								1.2			36.0	
xxxx xxxx xxxx xxxx	CNEL		608								1.9			36.4	
xxxx xxxx xxxx xxxx	CNEL		608								2.0			36.4	
xxxx xxxx xxxx xxxx	CNEL		228								2.5			32.2	
xxxx xxxx xxxx xxxx	CNEL		520								1.7			37.5	
xxxx xxxx xxxx xxxx	CNEL		1341								2.2			45.4	
xxxx xxxx xxxx xxxx	CNEL		450								3.7			31.5	
Receiver SS-3 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 66.7 dB(A)		Ld 7-19 dB(A)		Leq,N 66.0 dB(A)		Le 19-22 dB(A)		CNEL 72.8 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	244.1	-58.7	2.9	-17.4	-1.2		0.0	0.1	0.0	6.7	36.7	
18-1855 A/B	CNEL	98.8		189.2	-56.5	2.7	0.0	-1.0		0.0	0.0	0.0	6.7	50.6	
18-1856 A/B	CNEL	98.8		195.4	-56.8	2.7	0.0	-1.0	-0.09	0.0	0.0	0.0	6.7	50.3	
18-1857 A/B	CNEL	98.8		183.2	-56.2	2.6	0.0	-1.0		0.0	0.4	0.0	6.7	51.3	
18-1858 A/B	CNEL	98.8		179.0	-56.0	2.6	0.0	-0.9		0.0	0.4	0.0	6.7	51.5	
18-PK 1802 Air Compressor Package	CNEL	103.1		197.2	-56.9	3.0	0.0	-0.7	-0.72	0.0	0.0	0.0	6.7	54.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	82.0	-49.3	1.3	-0.1	-1.7		0.0	0.1	-4.8	1.0	55.6	
Air Compressor C 1	CNEL	110.0	5	221.5	-57.9	3.1	-9.7	-0.5	-1.23	0.0	1.4	0.0	6.7	51.8	
Air Compressor Pump	CNEL	100.3		120.2	-52.6	2.5	-17.8	-1.4		0.0	7.8	0.0	6.7	45.5	
Blower F 401	CNEL	113.0		109.5	-51.8	1.8	-13.0	-0.1		0.0	0.0	0.0	6.7	56.5	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.0	-58.8	2.4	-0.3	-1.2		0.0	0.0	0.0	6.7	47.3	
Boiler Feed Water Pump A	CNEL	97.1	3	207.1	-57.3	2.8	-4.1	-1.0		0.0	0.0	0.0	6.7	44.1	
Boiler Feed Water Pump B	CNEL	97.1	3	205.5	-57.2	2.7	-3.4	-1.0		0.0	0.0	0.0	6.7	44.9	
C370 A Motor	CNEL	103.6	3	152.5	-54.7	2.6	-6.7	-0.9		0.0	1.4	0.0	6.7	52.1	
C370 B Motor	CNEL	108.6	3	158.9	-55.0	2.6	-7.7	-0.8		0.0	1.8	0.0	6.7	56.2	
C370A	CNEL	103.8	5	156.1	-54.9	2.6	-5.1	-1.0		0.0	1.1	0.0	6.7	53.3	
C370B	CNEL	103.8	5	162.4	-55.2	2.7	-5.9	-1.0		0.0	2.4	0.0	6.7	53.4	
C-270 A	CNEL	106.3	6	212.6	-57.5	2.4	-4.1	-1.3	-0.15	0.0	1.4	0.0	6.7	53.7	
C-270 B	CNEL	106.3	6	207.6	-57.3	2.4	-4.5	-1.2	-0.04	0.0	1.3	0.0	6.7	53.5	
C-270 C	CNEL	106.3	6	202.8	-57.1	2.4	-5.3	-1.2		0.0	0.9	0.0	6.7	52.6	
C-301 Compressor	CNEL	106.8	3	231.4	-58.3	2.5	-0.6	-1.6	-1.34	0.0	0.0	0.0	6.7	54.1	
C-301 Motor	CNEL	106.8	4	227.7	-58.1	2.5	0.0	-2.3	-1.31	0.0	0.0	0.0	6.7	54.2	
C-351 Compressor	CNEL	106.8	4	232.1	-58.3	2.4	-0.1	-1.6	-0.55	0.0	0.0	0.0	6.7	55.4	
C-351 Motor	CNEL	106.8	5	231.6	-58.3	2.4	-4.6	-2.4	-0.56	0.0	0.0	0.0	6.7	50.1	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.8	-50.0	0.8	-0.2	-0.3		0.0	0.2	-35.6	0.0	49.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.3	-54.9	2.2	-9.7	-0.8	-0.73	4.1	3.1	0.0	6.7	54.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	161.0	-55.1	2.3	-0.1	-1.3	-0.91	0.0	0.0	0.0	6.7	52.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.4	-55.5	2.2	-14.9	-0.5	-0.52	-7.8	7.3	0.0	6.7	43.5	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.5	-55.0	2.1	-9.9	-0.8	-0.21	0.7	0.0	0.0	6.7	54.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.0	-55.0	2.2	-8.2	-0.7	-0.79	0.4	0.2	0.0	6.7	48.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.1	-55.5	2.1	-13.1	-0.5		-6.1	1.9	0.0	6.7	35.9	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.3	-54.7	2.5	-14.5	-0.4		-2.5	0.0	0.0	6.7	34.9	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.0	-54.6	2.4	0.0	-1.1		1.6	0.0	0.0	6.7	52.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.5	-54.9	2.4	-17.8	-0.5		-4.8	0.2	0.0	6.7	31.8	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.4	-2.2	-1.1		4.7	0.0	0.0	6.7	56.4	
Cooling Tower M 512	CNEL	95.7		146.2	-54.3	2.6	-5.8	-0.7		0.0	0.3	0.0	6.7	44.5	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower M 513	CNEL	95.7		145.9	-54.3	2.6	0.0	-0.8		0.0	2.4	0.0	6.7	52.3
Cooling Tower M 514	CNEL	95.7		146.2	-54.3	2.6	-9.1	-0.6		0.0	0.5	0.0	6.7	41.5
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	215.2	-57.6	2.3	-1.2	-1.1		-3.6	1.7	0.0	6.7	43.0
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	241.3	-58.6	2.7	-9.5	-0.1		0.0	0.0	0.0	6.7	36.5
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	242.1	-58.7	2.7	-12.5	-0.1		0.0	0.5	0.0	6.7	31.7
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	240.6	-58.6	2.6	-9.5	-0.1		0.0	0.1	0.0	6.7	34.6
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	238.9	-58.6	2.6	-6.3	-0.1		0.0	0.1	0.0	6.7	37.6
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	239.6	-58.6	2.7	-9.7	-0.1		0.0	0.0	0.0	6.7	36.4
FD Motor	CNEL	103.3	2	242.2	-58.7	2.9	-20.1	-1.5		0.0	1.0	0.0	6.7	33.5
Feed Compressor -B Motor	CNEL	103.8	5	174.3	-55.8	2.7	-5.4	-1.7		0.0	2.1	0.0	6.7	52.3
Feed Compressor-A Compressor	CNEL	104.0	5	167.4	-55.5	2.6	-7.2	-0.9		0.0	3.0	0.0	6.7	52.8
Feed Compressor-A Motor	CNEL	103.8	6	163.9	-55.3	2.7	-5.7	-1.6		0.0	1.9	0.0	6.7	52.4
Feed Compressor-B Compressor	CNEL	104.0	7	178.1	-56.0	2.6	-5.2	-1.2		0.0	2.4	0.0	6.7	53.3
H2S Compressor 18-C-271	CNEL	105.3	6	186.5	-56.4	2.5	-5.5	-1.0	-1.12	0.0	2.2	0.0	6.7	52.6
Heater # 5-Heater	CNEL	91.1	13	243.7	-58.7	2.5	-9.5	-0.5		0.0	0.0	0.0	6.7	34.5
Heater # 5-Heater	CNEL	91.1	13	238.6	-58.5	2.4	-6.1	-0.8		0.0	0.0	0.0	6.7	37.7
Heater # 5-Heater	CNEL	91.1	13	248.6	-58.9	2.5	-11.3	-0.5		0.0	0.0	0.0	6.7	32.6
Hydro Heater H-402	CNEL	98.1		145.8	-54.3	2.5	-2.1	-0.5		0.0	0.0	0.0	6.7	50.4
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	243.6	-58.7	3.0	-9.0	-0.1		0.0	0.0	0.0	6.7	28.9
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	242.0	-58.7	3.0	-5.9	-0.1		0.0	0.0	0.0	6.7	32.3
ID Fan-ID Fan - North	CNEL	92.2	8	242.9	-58.7	3.0	-10.3	0.0		0.0	0.0	0.0	6.7	32.9
ID Fan-ID Fan - North 2	CNEL	91.4	7	244.1	-58.7	3.0	-8.4	-0.1		0.0	0.0	0.0	6.7	34.0
ID Fan-ID Fan - South	CNEL	92.3	9	240.6	-58.6	3.0	-4.0	-0.1		0.0	0.0	0.0	6.7	39.3
ID Fan-ID Fan - South 2	CNEL	91.4	7	243.1	-58.7	3.0	-4.3	-0.1		0.0	0.0	0.0	6.7	38.0
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	242.2	-58.7	2.7	-4.5	-0.1		0.0	0.0	0.0	6.7	40.1
Motor & Pump P 56A/B	CNEL	93.7		162.4	-55.2	2.6	-8.4	-0.8	-1.17	0.0	0.1	0.0	6.7	37.4
Motor & Pump P 120/121	CNEL	96.2	2	208.7	-57.4	2.8	-17.3	-0.7	-1.22	0.0	3.3	0.0	6.7	32.5
Motor & Pump P 211/212	CNEL	93.7		141.6	-54.0	2.5	-4.5	-1.3	-0.61	0.0	0.4	0.0	6.7	42.8
Motor & Pump P 215/214	CNEL	94.6		146.6	-54.3	2.5	-7.3	-0.8	-0.75	0.0	1.4	0.0	6.7	42.0
Motor & Pump P 216	CNEL	98.3		144.0	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.2	0.0	6.7	51.5
Motor & Pump P 217/218	CNEL	93.7		143.6	-54.1	2.5	-4.9	-1.2	-0.66	0.0	0.4	0.0	6.7	42.3
Motor & Pump P 300	CNEL	97.1	2	213.1	-57.6	2.9	-15.5	-0.7	-1.23	0.0	0.0	0.0	6.7	31.8
Motor & Pump P 301	CNEL	102.1	2	211.5	-57.5	2.9	-15.2	-0.7	-1.23	0.0	0.0	0.0	6.7	37.1
Motor & Pump P 302	CNEL	97.1	2	214.9	-57.6	2.9	-16.2	-0.6	-1.23	0.0	0.2	0.0	6.7	31.2
Motor & Pump P 303	CNEL	97.1	2	216.4	-57.7	2.9	-16.0	-0.6	-1.23	0.0	0.4	0.0	6.7	31.5
Motor & Pump P 305	CNEL	97.5	2	217.8	-57.8	2.9	-15.7	-0.6	-1.23	0.0	0.2	0.0	6.7	31.9
Motor & Pump P 306	CNEL	112.6	4	226.8	-58.1	2.8	-14.5	-0.6	-0.90	0.0	0.5	0.0	6.7	48.5
Motor & Pump P 307	CNEL	102.1	2	206.7	-57.3	2.8	-7.1	-1.0	-1.19	0.0	0.0	0.0	6.7	45.1
Motor & Pump P 309	CNEL	97.5	2	219.3	-57.8	2.9	-15.5	-0.6	-1.23	0.0	0.3	0.0	6.7	32.2
Motor & Pump P 312	CNEL	101.5	2	185.2	-56.3	2.7	-3.9	-0.9	-1.19	0.0	1.6	0.0	6.7	50.2
Motor & Pump P 313	CNEL	101.5	2	183.5	-56.3	2.6	-3.9	-0.9	-1.19	0.0	1.6	0.0	6.7	50.2
Motor & Pump P 315	CNEL	102.9	2	177.2	-56.0	2.5	-3.4	-0.8	-1.20	0.0	1.1	0.0	6.7	51.8
Motor & Pump P 316	CNEL	102.9	2	175.3	-55.9	2.5	-3.7	-0.8	-1.20	0.0	0.8	0.0	6.7	51.4
Motor & Pump P 317	CNEL	102.9	2	173.4	-55.8	2.5	-3.8	-0.8	-1.20	0.0	0.5	0.0	6.7	51.0
Motor & Pump P 318	CNEL	100.2	1	179.1	-56.1	2.6	-3.8	-0.8	-1.20	0.0	1.4	0.0	6.7	49.1
Motor & Pump P 319	CNEL	100.2	1	180.5	-56.1	2.7	-3.9	-0.8	-1.20	0.0	1.5	0.0	6.7	48.9
Motor & Pump P 327	CNEL	111.2	3	234.7	-58.4	3.1	-21.4	-1.4	-0.50	0.0	1.2	0.0	6.7	40.5
Motor & Pump P 328	CNEL	109.9	5	221.0	-57.9	2.8	-14.8	-0.7	-1.00	0.0	0.2	0.0	6.7	45.3
Motor & Pump P 329	CNEL	110.2	5	223.9	-58.0	2.8	-15.5	-0.7	-0.88	0.0	0.4	0.0	6.7	45.0
Motor & Pump P 451	CNEL	93.7		138.8	-53.8	2.5	-6.8	-0.8		0.0	0.0	0.0	6.7	41.4
Motor & Pump P 453	CNEL	93.7		127.0	-53.1	2.5	0.0	-1.3		0.0	0.0	0.0	6.7	48.5
Motor & Pump P 454	CNEL	93.7		139.4	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6
Motor & Pump P 457	CNEL	93.7		125.5	-53.0	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	48.6
Motor & Pump P 458	CNEL	93.7		138.7	-53.8	2.5	-4.4	-1.1		0.0	0.0	0.0	6.7	43.6
Motor & Pump P 459	CNEL	93.7		140.4	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.3	-55.5	2.6	-9.0	-0.9		0.0	0.1	0.0	6.7	40.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		169.0	-55.5	2.6	-7.2	-1.0		0.0	0.0	0.0	6.7	41.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.7	-57.1	2.8	-3.9	-1.5	-0.81	0.0	0.0	0.0	6.7	41.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		203.9	-57.2	2.8	-3.8	-1.5	-0.83	0.0	0.0	0.0	6.7	41.6
Motor & Pump P 1601 A	CNEL	96.3	2	170.8	-55.6	2.7	-17.3	-0.8		0.0	0.0	0.0	6.7	31.9
Motor & Pump P 1601 B	CNEL	96.3	2	171.1	-55.7	2.7	-13.2	-0.9		0.0	0.0	0.0	6.7	35.9
Motor & Pump P 1602 A	CNEL	96.3	2	171.1	-55.7	2.7	-15.2	-0.9		0.0	0.0	0.0	6.7	33.9
Motor & Pump P 1602 B	CNEL	96.5	2	171.4	-55.7	2.7	-16.9	-0.9		0.0	0.0	0.0	6.7	32.4
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.3	-55.5	2.6	-12.0	-0.9	-0.08	0.0	0.0	0.0	6.7	37.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.2	-55.8	2.6	-10.2	-0.9	-0.19	0.0	0.0	0.0	6.7	38.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.6	-55.9	2.6	-9.5	-0.9	-0.24	0.0	0.0	0.0	6.7	39.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.4	-55.6	2.6	-4.8	-1.2		0.0	0.0	0.0	6.7	44.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.2	-55.7	2.6	-4.4	-1.2		0.0	0.0	0.0	6.7	44.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.3	-56.2	2.6	-17.1	-0.9	-0.22	0.0	0.0	0.0	6.7	31.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.1	-56.2	2.6	-10.9	-0.9	-0.35	0.0	0.0	0.0	6.7	37.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.7	-56.1	2.6	-8.8	-1.0	-0.35	0.0	0.0	0.0	6.7	39.4
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	2.6	-10.2	-0.9	-0.35	0.0	0.0	0.0	6.7	38.0
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	219.6	-57.8	2.6	-6.9	-1.0		0.0	0.0	0.0	6.7	47.7
P-2 A/B	CNEL	98.5		328.0	-61.3	3.8	-5.4	-1.4		0.0	0.6	0.0	6.7	41.5
P-50 A/B	CNEL	98.1		290.9	-60.3	3.7	-22.0	-1.1	-0.22	0.0	0.0	0.0	6.7	24.9
P-51 A/B	CNEL	98.1		290.7	-60.3	3.7	-15.0	-1.0	-0.23	0.0	0.0	0.0	6.7	32.0
P-060 A/B	CNEL	98.1		291.4	-60.3	3.8	-22.2	-1.1	-1.77	0.0	0.4	0.0	6.7	23.5
P-63	CNEL	98.5		297.3	-60.5	3.6	-4.0	-1.3	-1.49	0.0	0.1	0.0	6.7	41.7
P-70 A/B	CNEL	98.1		291.1	-60.3	3.7	-18.4	-1.2	-1.74	0.0	0.0	0.0	6.7	26.9
P-73 A/B	CNEL	98.5		323.5	-61.2	3.8	-5.3	-1.4		0.0	0.0	0.0	6.7	41.0
P-251 A/B	CNEL	98.2		157.9	-55.0	2.5	0.0	-0.8	-0.20	0.0	0.0	0.0	6.7	51.4
P-252 A/B	CNEL	98.2		164.1	-55.3	2.6	0.0	-0.9	-0.74	0.0	1.0	0.0	6.7	51.5
P-253	CNEL	98.2		171.7	-55.7	2.7	0.0	-0.9	-0.78	0.0	1.0	0.0	6.7	51.2
P-254 A/B	CNEL	98.2		169.3	-55.6	2.6	0.0	-0.9	-0.46	0.0	0.0	0.0	6.7	50.6
P-255 A/B	CNEL	98.2		165.8	-55.4	2.6	0.0	-0.9	-0.38	0.0	0.0	0.0	6.7	50.8
P-255 A/B	CNEL	98.2		150.7	-54.6	2.5	0.0	-0.8	-0.04	0.0	0.0	0.0	6.7	52.0
P-256 A/B	CNEL	98.2		161.4	-55.1	2.5	0.0	-0.9	-0.28	0.0	0.0	0.0	6.7	51.1
P-259 A/B	CNEL	98.2		154.4	-54.8	2.5	0.0	-0.8	-0.12	0.0	0.0	0.0	6.7	51.7
P-260	CNEL	99.1		145.0	-54.2	2.5	0.0	-0.8	-0.65	0.0	0.0	0.0	6.7	52.6
P-261 A/B	CNEL	98.0		122.1	-52.7	2.5	0.0	-0.7	-0.11	0.0	0.0	0.0	6.7	53.6
P-262 A/B	CNEL	99.1		136.7	-53.7	2.5	0.0	-0.7	-0.47	0.0	0.0	0.0	6.7	53.3
P-263 A/B	CNEL	99.4		140.8	-54.0	2.5	0.0	-0.8	-0.56	0.0	0.0	0.0	6.7	53.3
P-270 A/B	CNEL	98.5		212.6	-57.5	3.2	0.0	-1.1	-1.00	0.0	2.2	0.0	6.7	50.9
P-271 A/B	CNEL	98.2		179.2	-56.1	2.8	0.0	-0.9	-0.67	0.0	0.5	0.0	6.7	50.5
P-272 A/B	CNEL	98.2		174.4	-55.8	2.7	0.0	-0.9	-0.57	0.0	0.0	0.0	6.7	50.3
P-273 A/B	CNEL	98.5		209.0	-57.4	3.2	0.0	-1.1	-0.92	0.0	1.8	0.0	6.7	50.7
P-275 A/B/C	CNEL	98.2		183.1	-56.2	2.9	0.0	-1.0	-0.86	0.0	0.0	0.0	6.7	49.7
P-305	CNEL	99.3		224.0	-58.0	3.1	-18.2	-0.7	-0.10	0.0	0.2	0.0	6.7	32.3
P-306	CNEL	100.8		233.9	-58.4	3.1	-18.2	-0.7	-0.33	0.0	0.0	0.0	6.7	33.1
P-309	CNEL	99.3		226.4	-58.1	3.1	-17.8	-0.7	-0.16	0.0	0.2	0.0	6.7	32.6
P-328	CNEL	100.8		239.7	-58.6	3.2	-11.3	-0.7	-0.46	0.0	0.0	0.0	6.7	39.6
P-329	CNEL	100.8		236.8	-58.5	3.2	-11.6	-0.7	-0.40	0.0	0.0	0.0	6.7	39.4
P-353	CNEL	98.5		225.3	-58.0	2.8	-0.1	-1.2	-0.14	0.0	0.0	0.0	6.7	48.5
P-358 A/B	CNEL	99.4		245.9	-58.8	3.4	-10.9	-0.8	-0.92	0.0	0.0	0.0	6.7	38.1
P-359 A/B	CNEL	99.4		245.7	-58.8	3.4	-0.1	-1.2	-0.87	0.0	0.0	0.0	6.7	48.5
P-360 A/B	CNEL	99.4		245.4	-58.8	3.4	-0.1	-1.2	-0.58	0.0	0.0	0.0	6.7	48.8
P-361A	CNEL	98.1		293.1	-60.3	3.5	-1.5	-1.4	-2.56	0.0	0.0	0.0	6.7	42.5
P-371 A/B	CNEL	98.0		135.7	-53.6	2.6	-3.5	-0.6		0.0	0.1	0.0	6.7	49.6
P-373 A/B	CNEL	98.0		145.1	-54.2	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.3
P-374 A/B	CNEL	98.0		143.3	-54.1	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.4
P-375 A/B	CNEL	98.0		139.6	-53.9	2.6	-1.7	-0.7		0.0	0.0	0.0	6.7	50.9
P-376	CNEL	98.0		142.1	-54.0	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.5
P-376 A/B	CNEL	98.0		147.3	-54.4	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.2
P-377	CNEL	98.0		141.2	-54.0	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.5
P-1101 A	CNEL	98.9		318.8	-61.1	3.6	-6.6	-1.2		0.0	0.9	0.0	6.7	41.2
P-1103	CNEL	98.9		317.3	-61.0	3.6	-6.9	-1.1		0.0	0.9	0.0	6.7	41.0
P-1105 A/B/C	CNEL	98.9		324.4	-61.2	3.6	-6.3	-1.2		0.0	1.0	0.0	6.7	41.5
P-1800	CNEL	98.9		351.7	-61.9	3.8	-12.1	-1.1	-1.42	0.0	5.7	0.0	6.7	38.6
P-1801	CNEL	98.9		400.8	-63.1	4.0	-7.9	-1.4	-1.51	0.0	0.0	0.0	6.7	35.7
P-1802	CNEL	98.9		400.5	-63.0	4.1	-8.0	-1.4	-1.51	0.0	0.0	0.0	6.7	35.7
P-1803	CNEL	99.1		305.8	-60.7	3.9	0.0	-1.5	-2.21	0.0	0.0	0.0	6.7	45.3
P-1804	CNEL	99.1		316.5	-61.0	3.9	-4.8	-1.5	-2.12	0.0	0.0	0.0	6.7	40.3
P-1805	CNEL	99.1		319.7	-61.1	3.9	-4.8	-1.5	-2.08	0.0	0.0	0.0	6.7	40.2
P-1806	CNEL	99.1		282.0	-60.0	3.8	0.0	-1.4	-1.56	0.0	0.0	0.0	6.7	46.6
P-1809 A	CNEL	98.9		363.3	-62.2	3.9	-12.4	-1.2	-1.53	0.0	0.2	0.0	6.7	32.4
P-1810 A/B/C	CNEL	99.0		323.8	-61.2	4.0	-4.6	-1.5	-2.67	0.0	0.0	0.0	6.7	39.8
P-1811 A/B	CNEL	99.1		288.7	-60.2	3.8	0.0	-1.4	-1.69	0.0	0.0	0.0	6.7	46.3
P-1811 A/B	CNEL	99.1		323.6	-61.2	4.0	-4.6	-1.6	-2.02	0.0	0.0	0.0	6.7	40.3
P-1847 A/B	CNEL	99.4		316.7	-61.0	4.1	0.0	-1.5	-0.54	0.0	2.2	0.0	6.7	49.2
P-1849 A/B	CNEL	99.4		322.9	-61.2	4.1	0.0	-1.5	-0.61	0.0	1.8	0.0	6.7	48.6
P-1853	CNEL	99.1		176.4	-55.9	2.5	-0.3	-1.0		0.0	0.0	0.0	6.7	51.1
Piping Furnace Tanks	CNEL	87.1	72	202.5	-57.1	2.5	-0.2	-6.4		0.0	0.8	0.0	6.7	33.3
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	181.7	-56.2	2.4	-0.4	-6.0		0.0	0.0	0.0	6.7	44.9
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	190.0	-56.6	2.7	-12.1	-1.5		0.0	0.4	0.0	6.7	54.2
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	189.9	-56.6	2.7	-15.6	-4.4		0.0	1.1	0.0	6.7	49.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	397.4	-63.0	3.0	-21.9	-1.4		0.0	0.1	0.0	6.7	34.0	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	380.0	-62.6	3.0	-14.6	-1.2		0.0	3.9	0.0	6.7	46.2	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	351.4	-61.9	2.9	-10.0	-1.2		0.0	0.5	0.0	6.7	40.9	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	369.2	-62.3	2.9	-6.3	-1.5		0.0	0.1	0.0	6.7	50.6	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	346.4	-61.8	2.6	0.0	-1.6		0.0	0.1	0.0	6.7	49.9	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	357.2	-62.1	2.9	-6.4	-1.5	-0.04	0.0	0.0	0.0	6.7	43.3	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	344.5	-61.7	2.8	0.0	-1.6		0.0	0.0	0.0	6.7	52.8	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	349.0	-61.8	2.8	-5.9	-1.5	-0.06	0.0	1.5	0.0	6.7	47.9	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	372.2	-62.4	2.4	-4.9	-1.7		0.0	0.1	0.0	6.7	53.2	
PSA Pipe 3" Lagging	CNEL	80.6	11	198.5	-56.9	2.4	-0.9	-1.9		0.0	0.1	0.0	6.7	30.0	
PSA Skid Additional Piping w NC	CNEL	116.6	57	188.7	-56.5	2.7	-12.8	-1.5		0.0	0.2	0.0	6.7	55.4	
Reformer-Burner Reformer East	CNEL	97.3	269	224.9	-58.0	2.4	-19.0	-1.0		0.0	0.4	0.0	6.7	31.8	
Reformer-Burner Reformer North	CNEL	95.9	192	213.6	-57.6	2.5	-0.4	-1.7		0.0	0.0	0.0	6.7	45.4	
Reformer-Burner Reformer South	CNEL	95.8	191	225.9	-58.1	2.5	-16.6	-0.9		0.0	0.4	0.0	6.7	32.8	
Reformer-Burner Reformer West	CNEL	97.3	268	214.4	-57.6	2.5	-0.5	-1.7		0.0	0.0	0.0	6.7	49.6	
RFG A from battery to process	CNEL	99.4	87	186.2	-56.4	2.4	-0.4	-6.1		0.0	0.0	0.0	6.7	45.6	
RFG A from battery to process w NC	CNEL	115.2	42	192.4	-56.7	2.7	-13.7	-4.7		0.0	1.3	0.0	6.7	50.7	
Stack Noise	CNEL	108.4		247.3	-58.9	2.4	-0.7	-1.8		-7.3	0.0	0.0	6.7	48.8	
Steam Turbine-Facade 01	CNEL	99.6	29	170.4	-55.6	2.7	0.0	-4.0		0.0	0.0	0.0	6.7	49.3	
Steam Turbine-Facade 02	CNEL	96.2	13	173.9	-55.8	2.7	-12.4	-2.2		0.0	1.6	0.0	6.7	36.8	
Steam Turbine-Facade 03	CNEL	99.6	29	173.7	-55.8	2.7	-16.1	-2.3		0.0	12.3	0.0	6.7	47.1	
Steam Turbine-Facade 04	CNEL	96.2	13	170.3	-55.6	2.7	0.0	-4.0		0.0	1.2	0.0	6.7	47.1	
Steam Turbine-Roof 01	CNEL	99.7	30	172.1	-55.7	2.7	-4.6	-4.1		0.0	2.6	0.0	6.7	47.2	
Tank Farm Pump 1	CNEL	99.0	3	314.3	-60.9	3.8	-4.8	-2.3		0.0	0.0	0.0	6.7	41.5	
Tank Farm Pump 2	CNEL	99.0	3	333.7	-61.5	3.9	0.0	-2.4	-0.16	0.0	0.0	0.0	6.7	45.6	
Tank Farm Pump 3	CNEL	99.0	3	339.0	-61.6	3.9	0.0	-2.4	-0.21	0.0	0.0	0.0	6.7	45.4	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	124.9	-52.9	1.2	0.0	-1.8		0.0	0.2	-13.8	0.0	45.2	
XF-1502 Splitter Area 1	CNEL	104.5		177.3	-56.0	2.3	0.0	-1.3	-0.25	-4.3	0.0	0.0	6.7	51.7	
XF-1502 Splitter Area 2	CNEL	104.5		173.6	-55.8	2.3	0.0	-1.3	-0.18	-4.3	0.0	0.0	6.7	52.0	
XF-1504 Splitter Area 1	CNEL	104.5		177.7	-56.0	2.3	-4.0	-1.1	0.00	-4.0	0.0	0.0	6.7	48.4	
XF-1504 Splitter Area 2	CNEL	104.5		174.0	-55.8	2.3	-4.4	-1.3	-0.18	-4.3	0.0	0.0	6.7	47.5	
XF 251, 250, 271, 270	CNEL	101.1	128	180.4	-56.1	2.0	0.0	-0.7		-3.1	0.0	0.0	6.7	49.8	
XF 260, 261A, 261 B	CNEL	99.9	97	129.7	-53.3	1.8	0.0	-0.6	-0.04	-3.1	0.0	0.0	6.7	51.3	
XF 304, XF 321	CNEL	110.5	56	211.7	-57.5	2.1	-0.5	-0.9	-1.48	-3.2	0.2	0.0	6.7	55.8	
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	2.2	-4.9	-1.0	-1.21	-3.7	0.1	0.0	6.7	52.5	
XF 335-1, XF 335-2	CNEL	113.4	54	223.6	-58.0	2.2	-3.5	-1.0	-1.36	-3.1	0.4	0.0	6.7	55.7	
XF 353A/B	CNEL	95.4	35	252.5	-59.0	1.9	0.0	-1.0	-0.03	-3.0	0.0	0.0	6.7	40.9	
XF 353A/B	CNEL	95.4	35	241.9	-58.7	2.0	0.0	-0.9	0.00	-3.0	0.0	0.0	6.7	41.5	
XF 354A/B	CNEL	95.4	35	223.4	-58.0	1.6	-1.0	-0.8	-0.01	-3.0	0.0	0.0	6.7	40.8	
XF 503	CNEL	113.0	21	158.1	-55.0	2.1	-0.1	-2.3	-1.05	-4.1	0.0	0.0	6.7	59.2	
XF - 1601	CNEL	96.6		170.1	-55.6	2.3	-0.9	-0.7		-3.4	0.0	0.0	6.7	45.0	
XF - 1602	CNEL	96.6		171.4	-55.7	2.3	-1.3	-0.7		-3.4	0.0	0.0	6.7	44.5	
XF Module 1510	CNEL	108.3		169.4	-55.6	2.3	0.0	-1.2	-0.10	-4.3	0.0	0.0	6.7	56.1	
XF Module 1519	CNEL	109.0		174.7	-55.8	2.3	0.0	-1.3	-0.21	-4.3	0.0	0.0	6.7	56.4	
xxxx xxxx xxxx xxxx	CNEL		606								2.6			27.2	
xxxx xxxx xxxx xxxx	CNEL		606								2.0			27.5	
xxxx xxxx xxxx xxxx	CNEL		917								1.5			37.9	
xxxx xxxx xxxx xxxx	CNEL		917								0.4			37.0	
xxxx xxxx xxxx xxxx	CNEL		608								1.7			37.5	
xxxx xxxx xxxx xxxx	CNEL		608								1.8			37.5	
xxxx xxxx xxxx xxxx	CNEL		228								2.3			32.1	
xxxx xxxx xxxx xxxx	CNEL		520								1.3			37.2	
xxxx xxxx xxxx xxxx	CNEL		1341								2.5			45.9	
xxxx xxxx xxxx xxxx	CNEL		450								3.3			31.2	
Receiver SS-3 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 67.1 dB(A)		Ld 7-19 dB(A)			Leq,N 66.5 dB(A)		Le 19-22 dB(A)		CNEL 73.2 dB(A)		Lmax day hr dB(A)	Ld 7-1
ID Fan Motor	CNEL	104.4	2	244.2	-58.7	2.8	-15.8	-1.1		0.0	0.2	0.0	6.7	38.4	
18-1855 A/B	CNEL	98.8		189.3	-56.5	2.7	0.0	-1.0		0.0	0.0	0.0	6.7	50.6	
18-1856 A/B	CNEL	98.8		195.5	-56.8	2.7	0.0	-1.0	-0.09	0.0	0.0	0.0	6.7	50.2	
18-1857 A/B	CNEL	98.8		183.3	-56.3	2.7	0.0	-1.0		0.0	0.4	0.0	6.7	51.3	
18-1858 A/B	CNEL	98.8		179.1	-56.1	2.7	0.0	-0.9		0.0	0.4	0.0	6.7	51.5	
18-PK 1802 Air Compressor Package	CNEL	103.1		197.3	-56.9	2.7	0.0	-0.6	-0.72	0.0	0.0	0.0	6.7	54.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	82.3	-49.3	1.3	-0.1	-1.7		0.0	0.1	-4.8	1.0	55.6	
Air Compressor C 1	CNEL	110.0	5	221.6	-57.9	2.7	-8.8	-0.5	-1.23	0.0	1.8	0.0	6.7	52.6	
Air Compressor Pump	CNEL	100.3		120.4	-52.6	2.5	-17.7	-1.3		0.0	9.2	0.0	6.7	47.0	
Blower F 401	CNEL	113.0		109.7	-51.8	1.9	-12.8	-0.1		0.0	0.0	0.0	6.7	56.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	246.1	-58.8	2.4	0.0	-1.1		0.0	0.0	0.0	6.7	47.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Boiler Feed Water Pump A	CNEL	97.1	3	207.2	-57.3	2.7	-3.7	-1.1		0.0	0.0	0.0	6.7	44.3
Boiler Feed Water Pump B	CNEL	97.1	3	205.6	-57.3	2.7	-3.0	-1.1		0.0	0.0	0.0	6.7	45.1
C370 A Motor	CNEL	103.6	3	152.6	-54.7	2.7	-5.3	-1.0		0.0	1.4	0.0	6.7	53.4
C370 B Motor	CNEL	108.6	3	159.0	-55.0	2.7	-5.6	-1.0		0.0	2.0	0.0	6.7	58.3
C370A	CNEL	103.8	5	156.2	-54.9	2.7	-4.7	-1.1		0.0	1.1	0.0	6.7	53.6
C370B	CNEL	103.8	5	162.5	-55.2	2.7	-4.8	-1.2		0.0	2.2	0.0	6.7	54.2
C-270 A	CNEL	106.3	6	212.6	-57.5	2.6	-3.9	-1.3	-0.15	0.0	0.7	0.0	6.7	53.4
C-270 B	CNEL	106.3	6	207.7	-57.3	2.6	-4.2	-1.2	-0.04	0.0	0.5	0.0	6.7	53.2
C-270 C	CNEL	106.3	6	202.9	-57.1	2.5	-5.2	-1.2		0.0	0.5	0.0	6.7	52.5
C-301 Compressor	CNEL	106.8	3	231.5	-58.3	2.7	-0.6	-1.6	-1.34	0.0	0.0	0.0	6.7	54.3
C-301 Motor	CNEL	106.8	4	227.7	-58.1	2.7	0.0	-2.3	-1.31	0.0	0.0	0.0	6.7	54.3
C-351 Compressor	CNEL	106.8	4	232.1	-58.3	2.6	0.0	-1.6	-0.54	0.0	0.0	0.0	6.7	55.6
C-351 Motor	CNEL	106.8	5	231.7	-58.3	2.6	-4.0	-2.7	-0.55	0.0	0.0	0.0	6.7	50.6
Cars Pumping 6 times in during delivery	CNEL	134.7	361	89.2	-50.0	0.8	-0.1	-0.3		0.0	0.2	-35.6	0.0	49.7
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	157.4	-54.9	2.3	-9.4	-0.8	-0.72	4.1	3.1	0.0	6.7	55.1
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	161.0	-55.1	2.3	-0.1	-1.3	-0.91	0.0	0.0	0.0	6.7	52.1
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	167.5	-55.5	2.3	-14.7	-0.5	-0.52	-7.8	9.3	0.0	6.7	45.8
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	158.6	-55.0	2.2	-9.9	-0.7	-0.21	0.7	0.0	0.0	6.7	54.3
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	159.1	-55.0	2.3	-8.1	-0.7	-0.78	0.4	0.2	0.0	6.7	48.7
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	167.2	-55.5	2.2	-13.0	-0.5		-6.1	1.8	0.0	6.7	36.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	153.4	-54.7	2.5	-13.7	-0.4		-2.5	0.0	0.0	6.7	35.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.1	-54.6	2.5	0.0	-1.1		1.6	0.0	0.0	6.7	52.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	157.6	-54.9	2.5	-17.6	-0.5		-4.8	0.6	0.0	6.7	32.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	153.3	-54.7	2.5	-1.9	-1.1		4.7	0.0	0.0	6.7	56.8
Cooling Tower M 512	CNEL	95.7		146.3	-54.3	2.6	-5.6	-0.7		0.0	0.4	0.0	6.7	44.8
Cooling Tower M 513	CNEL	95.7		146.0	-54.3	2.6	0.0	-0.8		0.0	2.4	0.0	6.7	52.3
Cooling Tower M 514	CNEL	95.7		146.3	-54.3	2.6	-8.6	-0.6		0.0	0.7	0.0	6.7	42.2
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	215.2	-57.6	2.5	-0.3	-0.9		-3.3	1.9	0.0	6.7	44.7
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	241.4	-58.6	2.8	-9.0	-0.1		0.0	0.0	0.0	6.7	37.2
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	242.1	-58.7	2.8	-12.5	-0.1		0.0	0.5	0.0	6.7	31.8
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	240.6	-58.6	2.8	-9.6	-0.1		0.0	0.1	0.0	6.7	34.7
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	238.9	-58.6	2.8	-6.3	-0.1		0.0	0.1	0.0	6.7	37.8
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	239.7	-58.6	2.8	-8.1	-0.1		0.0	0.0	0.0	6.7	38.0
FD Motor	CNEL	103.3	2	242.2	-58.7	2.8	-15.6	-1.3		0.0	2.0	0.0	6.7	39.2
Feed Compressor -B Motor	CNEL	103.8	5	174.4	-55.8	2.7	-5.0	-1.8		0.0	1.8	0.0	6.7	52.3
Feed Compressor-A Compressor	CNEL	104.0	5	167.5	-55.5	2.7	-6.6	-0.9		0.0	2.8	0.0	6.7	53.1
Feed Compressor-A Motor	CNEL	103.8	6	163.9	-55.3	2.7	-5.4	-1.7		0.0	1.8	0.0	6.7	52.6
Feed Compressor-B Compressor	CNEL	104.0	7	178.2	-56.0	2.7	-4.8	-1.2		0.0	2.2	0.0	6.7	53.5
H2S Compressor 18-C-271	CNEL	105.3	6	186.6	-56.4	2.6	-3.3	-1.1	-1.12	0.0	2.5	0.0	6.7	55.2
Heater # 5-Heater	CNEL	91.1	13	243.7	-58.7	2.4	-9.4	-0.5		0.0	0.0	0.0	6.7	34.6
Heater # 5-Heater	CNEL	91.1	13	238.7	-58.5	2.4	-6.1	-0.8		0.0	0.0	0.0	6.7	37.8
Heater # 5-Heater	CNEL	91.1	13	248.7	-58.9	2.4	-11.1	-0.5		0.0	0.0	0.0	6.7	32.7
Hydro Heater H-402	CNEL	98.1		145.9	-54.3	2.6	-1.8	-0.5		0.0	0.0	0.0	6.7	50.7
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	243.6	-58.7	2.9	-8.5	-0.1		0.0	0.0	0.0	6.7	29.3
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	242.0	-58.7	2.9	-4.1	-0.1		0.0	0.0	0.0	6.7	34.0
ID Fan-ID Fan - North	CNEL	92.2	8	242.9	-58.7	2.9	-9.3	-0.1		0.0	0.0	0.0	6.7	33.7
ID Fan-ID Fan - North 2	CNEL	91.4	7	244.1	-58.7	2.9	-7.9	-0.1		0.0	0.0	0.0	6.7	34.2
ID Fan-ID Fan - South	CNEL	92.3	9	240.7	-58.6	2.9	-4.7	-0.1		0.0	0.0	0.0	6.7	38.5
ID Fan-ID Fan - South 2	CNEL	91.4	7	243.1	-58.7	2.9	-3.7	-0.1		0.0	0.0	0.0	6.7	38.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	242.2	-58.7	2.9	-4.5	-0.1		0.0	0.0	0.0	6.7	40.3
Motor & Pump P 56A/B	CNEL	93.7		162.5	-55.2	2.6	-4.9	-1.0	-1.15	0.0	0.0	0.0	6.7	40.6
Motor & Pump P 120/121	CNEL	96.2	2	208.8	-57.4	2.7	-15.7	-0.7	-1.21	0.0	4.0	0.0	6.7	34.5
Motor & Pump P 211/212	CNEL	93.7		141.8	-54.0	2.5	-4.4	-1.3	-0.61	0.0	0.4	0.0	6.7	42.9
Motor & Pump P 215/214	CNEL	94.6		146.8	-54.3	2.5	-6.8	-0.9	-0.75	0.0	1.4	0.0	6.7	42.5
Motor & Pump P 216	CNEL	98.3		144.1	-54.2	2.4	0.0	-1.4	-0.58	0.0	0.2	0.0	6.7	51.5
Motor & Pump P 217/218	CNEL	93.7		143.7	-54.1	2.5	-4.7	-1.2	-0.66	0.0	0.4	0.0	6.7	42.4
Motor & Pump P 300	CNEL	97.1	2	213.2	-57.6	2.7	-7.8	-0.8	-1.21	0.0	0.0	0.0	6.7	39.1
Motor & Pump P 301	CNEL	102.1	2	211.6	-57.5	2.7	-6.9	-0.9	-1.20	0.0	0.0	0.0	6.7	44.9
Motor & Pump P 302	CNEL	97.1	2	215.0	-57.6	2.7	-8.6	-0.8	-1.21	0.0	0.1	0.0	6.7	38.3
Motor & Pump P 303	CNEL	97.1	2	216.5	-57.7	2.7	-8.8	-0.8	-1.21	0.0	0.1	0.0	6.7	38.1
Motor & Pump P 305	CNEL	97.5	2	217.9	-57.8	2.7	-9.0	-0.8	-1.22	0.0	0.0	0.0	6.7	38.2
Motor & Pump P 306	CNEL	112.6	4	226.8	-58.1	2.7	-10.1	-0.7	-0.91	0.0	0.1	0.0	6.7	52.3
Motor & Pump P 307	CNEL	102.1	2	206.8	-57.3	2.7	-5.0	-1.0	-1.18	0.0	0.0	0.0	6.7	46.9
Motor & Pump P 309	CNEL	97.5	2	219.4	-57.8	2.7	-9.3	-0.7	-1.22	0.0	0.0	0.0	6.7	37.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 312	CNEL	101.5	2	185.3	-56.4	2.6	-3.7	-0.9	-1.19	0.0	1.6	0.0	6.7	50.2
Motor & Pump P 313	CNEL	101.5	2	183.6	-56.3	2.6	-3.7	-0.9	-1.19	0.0	1.5	0.0	6.7	50.3
Motor & Pump P 315	CNEL	102.9	2	177.4	-56.0	2.6	-3.4	-0.8	-1.20	0.0	1.0	0.0	6.7	51.8
Motor & Pump P 316	CNEL	102.9	2	175.4	-55.9	2.6	-3.4	-0.8	-1.20	0.0	0.7	0.0	6.7	51.6
Motor & Pump P 317	CNEL	102.9	2	173.5	-55.8	2.6	-3.4	-0.8	-1.20	0.0	0.4	0.0	6.7	51.4
Motor & Pump P 318	CNEL	100.2	1	179.2	-56.1	2.6	-3.6	-0.9	-1.19	0.0	1.3	0.0	6.7	49.1
Motor & Pump P 319	CNEL	100.2	1	180.6	-56.1	2.6	-3.6	-0.9	-1.19	0.0	1.4	0.0	6.7	49.0
Motor & Pump P 327	CNEL	111.2	3	234.8	-58.4	2.7	-20.5	-1.3		0.0	1.0	0.0	6.7	41.4
Motor & Pump P 328	CNEL	109.9	5	221.1	-57.9	2.7	-9.3	-0.8	-1.06	0.0	0.0	0.0	6.7	50.3
Motor & Pump P 329	CNEL	110.2	5	223.9	-58.0	2.7	-10.2	-0.8	-0.96	0.0	0.1	0.0	6.7	49.6
Motor & Pump P 451	CNEL	93.7		139.0	-53.8	2.5	-6.7	-0.8		0.0	0.0	0.0	6.7	41.6
Motor & Pump P 453	CNEL	93.7		127.1	-53.1	2.5	0.0	-1.3		0.0	0.0	0.0	6.7	48.5
Motor & Pump P 454	CNEL	93.7		139.5	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6
Motor & Pump P 457	CNEL	93.7		125.6	-53.0	2.5	0.0	-1.2		0.0	0.0	0.0	6.7	48.6
Motor & Pump P 458	CNEL	93.7		138.9	-53.8	2.5	-4.3	-1.1		0.0	0.0	0.0	6.7	43.6
Motor & Pump P 459	CNEL	93.7		140.5	-53.9	2.5	0.0	-1.4		0.0	0.0	0.0	6.7	47.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		167.4	-55.5	2.6	-8.9	-0.9		0.0	0.0	0.0	6.7	40.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		169.1	-55.6	2.6	-7.1	-1.0		0.0	0.0	0.0	6.7	41.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		202.8	-57.1	2.7	-3.4	-1.5	-0.81	0.0	0.0	0.0	6.7	41.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		204.0	-57.2	2.7	-3.3	-1.5	-0.83	0.0	0.0	0.0	6.7	42.0
Motor & Pump P 1601 A	CNEL	96.3	2	170.9	-55.6	2.7	-8.8	-1.0		0.0	0.0	0.0	6.7	40.2
Motor & Pump P 1601 B	CNEL	96.3	2	171.2	-55.7	2.7	-13.1	-0.9		0.0	0.0	0.0	6.7	36.0
Motor & Pump P 1602 A	CNEL	96.3	2	171.2	-55.7	2.7	-15.1	-0.8		0.0	0.0	0.0	6.7	34.0
Motor & Pump P 1602 B	CNEL	96.5	2	171.5	-55.7	2.7	-16.8	-0.8		0.0	0.0	0.0	6.7	32.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.4	-55.5	2.7	-11.8	-0.8	-0.08	0.0	0.0	0.0	6.7	37.6
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	173.3	-55.8	2.7	-10.0	-0.9	-0.19	0.0	0.0	0.0	6.7	39.1
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	175.7	-55.9	2.7	-9.2	-0.9	-0.24	0.0	0.0	0.0	6.7	39.7
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	170.6	-55.6	2.7	-4.7	-1.2		0.0	0.0	0.0	6.7	44.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	172.4	-55.7	2.7	-4.4	-1.2		0.0	0.0	0.0	6.7	44.7
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	181.4	-56.2	2.7	-17.0	-0.9	-0.22	0.0	0.0	0.0	6.7	31.3
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	181.2	-56.2	2.7	-10.3	-0.9	-0.35	0.0	0.0	0.0	6.7	38.0
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	180.8	-56.1	2.7	-8.4	-1.0	-0.35	0.0	0.0	0.0	6.7	39.9
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	180.9	-56.1	2.7	-9.7	-0.9	-0.35	0.0	0.0	0.0	6.7	38.6
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	219.7	-57.8	2.7	-4.8	-1.1		0.0	0.0	0.0	6.7	49.8
P-2 A/B	CNEL	98.5		328.1	-61.3	3.3	-5.2	-1.4		0.0	1.1	0.0	6.7	41.6
P-50 A/B	CNEL	98.1		291.0	-60.3	3.1	-21.9	-1.1	-0.22	0.0	0.0	0.0	6.7	24.4
P-51 A/B	CNEL	98.1		290.8	-60.3	3.1	-15.0	-0.9	-0.23	0.0	0.0	0.0	6.7	31.4
P-060 A/B	CNEL	98.1		291.5	-60.3	3.1	-18.8	-1.2	-1.26	0.0	0.2	0.0	6.7	26.5
P-63	CNEL	98.5		297.4	-60.5	3.0	-3.0	-1.3	-1.48	0.0	0.3	0.0	6.7	42.3
P-70 A/B	CNEL	98.1		291.2	-60.3	3.1	-18.4	-1.2	-1.24	0.0	0.0	0.0	6.7	26.8
P-73 A/B	CNEL	98.5		323.6	-61.2	3.3	-5.2	-1.4		0.0	0.0	0.0	6.7	40.6
P-251 A/B	CNEL	98.2		158.0	-55.0	2.5	0.0	-0.8	-0.20	0.0	0.0	0.0	6.7	51.4
P-252 A/B	CNEL	98.2		164.3	-55.3	2.6	0.0	-0.9	-0.74	0.0	0.9	0.0	6.7	51.4
P-253	CNEL	98.2		171.9	-55.7	2.6	0.0	-0.9	-0.78	0.0	0.9	0.0	6.7	51.0
P-254 A/B	CNEL	98.2		169.4	-55.6	2.5	0.0	-0.9	-0.46	0.0	0.0	0.0	6.7	50.5
P-255 A/B	CNEL	98.2		166.0	-55.4	2.5	0.0	-0.9	-0.38	0.0	0.0	0.0	6.7	50.8
P-255 A/B	CNEL	98.2		150.8	-54.6	2.5	0.0	-0.8	-0.04	0.0	0.0	0.0	6.7	52.0
P-256 A/B	CNEL	98.2		161.5	-55.2	2.5	0.0	-0.9	-0.28	0.0	0.0	0.0	6.7	51.1
P-259 A/B	CNEL	98.2		154.5	-54.8	2.5	0.0	-0.8	-0.12	0.0	0.0	0.0	6.7	51.7
P-260	CNEL	99.1		145.2	-54.2	2.5	0.0	-0.8	-0.65	0.0	0.0	0.0	6.7	52.6
P-261 A/B	CNEL	98.0		122.2	-52.7	2.5	0.0	-0.7	-0.11	0.0	0.0	0.0	6.7	53.6
P-262 A/B	CNEL	99.1		136.9	-53.7	2.5	0.0	-0.7	-0.47	0.0	0.0	0.0	6.7	53.4
P-263 A/B	CNEL	99.4		140.9	-54.0	2.5	0.0	-0.8	-0.56	0.0	0.0	0.0	6.7	53.3
P-270 A/B	CNEL	98.5		212.7	-57.5	2.6	0.0	-1.1	-1.00	0.0	2.1	0.0	6.7	50.3
P-271 A/B	CNEL	98.2		179.3	-56.1	2.6	0.0	-0.9	-0.67	0.0	0.4	0.0	6.7	50.2
P-272 A/B	CNEL	98.2		174.5	-55.8	2.6	0.0	-0.9	-0.57	0.0	0.0	0.0	6.7	50.1
P-273 A/B	CNEL	98.5		209.1	-57.4	2.6	0.0	-1.1	-0.92	0.0	1.7	0.0	6.7	50.1
P-275 A/B/C	CNEL	98.2		183.2	-56.3	2.6	0.0	-1.0	-0.87	0.0	0.0	0.0	6.7	49.4
P-305	CNEL	99.3		224.1	-58.0	2.5	-15.4	-0.7	-0.10	0.0	0.1	0.0	6.7	34.3
P-306	CNEL	100.8		233.9	-58.4	2.5	-10.8	-0.7	-0.33	0.0	0.0	0.0	6.7	39.7
P-309	CNEL	99.3		226.5	-58.1	2.5	-15.0	-0.7	-0.16	0.0	0.1	0.0	6.7	34.6
P-328	CNEL	100.8		239.8	-58.6	2.5	-10.0	-0.8	-0.46	0.0	0.0	0.0	6.7	40.2

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-329	CNEL	100.8		236.9	-58.5	2.5	-10.3	-0.8	-0.40	0.0	0.0	0.0	6.7	40.0
P-353	CNEL	98.5		225.4	-58.1	2.5	0.0	-1.1	-0.15	0.0	0.0	0.0	6.7	48.4
P-358 A/B	CNEL	99.4		246.0	-58.8	2.6	-10.8	-0.8	-0.92	0.0	0.0	0.0	6.7	37.4
P-359 A/B	CNEL	99.4		245.8	-58.8	2.6	0.0	-1.2	-0.88	0.0	0.0	0.0	6.7	47.8
P-360 A/B	CNEL	99.4		245.5	-58.8	2.6	0.0	-1.2	-0.58	0.0	0.0	0.0	6.7	48.1
P-361A	CNEL	98.1		293.2	-60.3	2.8	-1.5	-1.4	-2.56	0.0	0.0	0.0	6.7	41.9
P-371 A/B	CNEL	98.0		135.9	-53.7	2.6	-3.1	-0.7		0.0	0.1	0.0	6.7	50.0
P-373 A/B	CNEL	98.0		145.3	-54.2	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.3
P-374 A/B	CNEL	98.0		143.5	-54.1	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.4
P-375 A/B	CNEL	98.0		139.7	-53.9	2.6	-1.6	-0.7		0.0	0.0	0.0	6.7	51.1
P-376	CNEL	98.0		142.3	-54.1	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.5
P-376 A/B	CNEL	98.0		147.5	-54.4	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.2
P-377	CNEL	98.0		141.3	-54.0	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.5
P-1101 A	CNEL	98.9		318.8	-61.1	3.0	-6.6	-1.2		0.0	1.5	0.0	6.7	41.3
P-1103	CNEL	98.9		317.4	-61.0	3.0	-6.8	-1.1		0.0	1.6	0.0	6.7	41.2
P-1105 A/B/C	CNEL	98.9		324.5	-61.2	3.0	-6.3	-1.2		0.0	1.7	0.0	6.7	41.7
P-1800	CNEL	98.9		351.7	-61.9	3.4	-9.9	-1.2	-1.42	0.0	5.9	0.0	6.7	40.5
P-1801	CNEL	98.9		400.8	-63.1	3.7	-6.0	-1.6	-1.02	0.0	0.0	0.0	6.7	37.6
P-1802	CNEL	98.9		400.6	-63.0	3.7	-6.0	-1.6	-1.03	0.0	0.0	0.0	6.7	37.6
P-1803	CNEL	99.1		305.9	-60.7	3.3	0.0	-1.5	-2.21	0.0	0.0	0.0	6.7	44.6
P-1804	CNEL	99.1		316.6	-61.0	3.3	-4.7	-1.5	-2.12	0.0	0.0	0.0	6.7	39.7
P-1805	CNEL	99.1		319.8	-61.1	3.3	-4.7	-1.6	-2.08	0.0	0.0	0.0	6.7	39.7
P-1806	CNEL	99.1		282.1	-60.0	3.1	0.0	-1.4	-1.56	0.0	0.0	0.0	6.7	45.9
P-1809 A	CNEL	98.9		363.4	-62.2	3.5	-10.8	-1.2	-1.05	0.0	0.3	0.0	6.7	34.1
P-1810 A/B/C	CNEL	99.0		323.8	-61.2	3.4	-4.5	-1.5	-2.67	0.0	0.0	0.0	6.7	39.2
P-1811 A/B	CNEL	99.1		288.8	-60.2	3.1	0.0	-1.4	-1.69	0.0	0.0	0.0	6.7	45.6
P-1811 A/B	CNEL	99.1		323.6	-61.2	3.4	-4.3	-1.7	-2.02	0.0	0.0	0.0	6.7	40.0
P-1847 A/B	CNEL	99.4		316.8	-61.0	3.4	0.0	-1.5	-0.09	0.0	2.4	0.0	6.7	49.3
P-1849 A/B	CNEL	99.4		322.9	-61.2	3.4	0.0	-1.5	-0.03	0.0	2.0	0.0	6.7	48.8
P-1853	CNEL	99.1		176.5	-55.9	2.4	0.0	-0.9		0.0	0.0	0.0	6.7	51.3
Piping Furnace Tanks	CNEL	87.1	72	202.5	-57.1	2.6	-0.1	-6.3		0.0	0.8	0.0	6.7	33.6
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	181.8	-56.2	2.5	-0.3	-5.9		0.0	0.0	0.0	6.7	45.2
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	190.1	-56.6	2.7	-11.4	-1.6		0.0	0.4	0.0	6.7	54.9
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	190.0	-56.6	2.7	-14.7	-4.6		0.0	1.1	0.0	6.7	49.9
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	397.4	-63.0	2.9	-21.7	-1.4		0.0	0.1	0.0	6.7	34.1
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	380.0	-62.6	2.8	-14.6	-1.2		0.0	4.0	0.0	6.7	46.2
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	351.4	-61.9	2.7	-10.0	-1.2		0.0	0.5	0.0	6.7	40.8
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	369.2	-62.3	2.8	-5.8	-1.6		0.0	0.1	0.0	6.7	51.0
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	346.4	-61.8	2.7	0.0	-1.6		0.0	0.1	0.0	6.7	50.0
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	357.2	-62.1	2.7	-6.3	-1.5		0.0	0.0	0.0	6.7	43.4
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	344.5	-61.7	2.7	0.0	-1.6		0.0	0.0	0.0	6.7	52.7
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	349.0	-61.8	2.7	-5.7	-1.5		0.0	1.6	0.0	6.7	48.1
Pre-Treat Train-Roof 01	CNEL	113.1	2037	372.2	-62.4	2.5	-4.9	-1.7		0.0	0.1	0.0	6.7	53.4
PSA Pipe 3" Lagging	CNEL	80.6	11	198.4	-56.9	2.5	-0.9	-1.9		0.0	0.2	0.0	6.7	30.2
PSA Skid Additional Piping w NC	CNEL	116.6	57	188.7	-56.5	2.7	-11.9	-1.6		0.0	0.2	0.0	6.7	56.2
Reformer-Burner Reformer East	CNEL	97.3	269	224.9	-58.0	2.5	-19.0	-1.0		0.0	0.4	0.0	6.7	31.9
Reformer-Burner Reformer North	CNEL	95.9	192	213.6	-57.6	2.5	-0.1	-1.6		0.0	0.0	0.0	6.7	45.8
Reformer-Burner Reformer South	CNEL	95.8	191	225.9	-58.1	2.6	-16.6	-0.9		0.0	0.5	0.0	6.7	32.9
Reformer-Burner Reformer West	CNEL	97.3	268	214.3	-57.6	2.5	0.0	-1.7		0.0	0.0	0.0	6.7	50.2
RFG A from battery to process	CNEL	99.4	87	186.2	-56.4	2.5	-0.4	-6.0		0.0	0.0	0.0	6.7	45.8
RFG A from battery to process w NC	CNEL	115.2	42	192.4	-56.7	2.7	-12.5	-5.0		0.0	1.3	0.0	6.7	51.7
Stack Noise	CNEL	108.4		247.0	-58.8	2.6	-0.6	-1.7		-7.1	0.0	0.0	6.7	49.4
Steam Turbine-Facade 01	CNEL	99.6	29	170.5	-55.6	2.7	0.0	-4.0		0.0	0.0	0.0	6.7	49.4
Steam Turbine-Facade 02	CNEL	96.2	13	174.0	-55.8	2.7	-12.4	-2.2		0.0	1.7	0.0	6.7	37.0
Steam Turbine-Facade 03	CNEL	99.6	29	173.8	-55.8	2.7	-16.0	-2.2		0.0	12.9	0.0	6.7	47.8
Steam Turbine-Facade 04	CNEL	96.2	13	170.4	-55.6	2.7	0.0	-4.0		0.0	2.2	0.0	6.7	48.1
Steam Turbine-Roof 01	CNEL	99.7	30	172.2	-55.7	2.7	-4.3	-4.3		0.0	2.6	0.0	6.7	47.4
Tank Farm Pump 1	CNEL	99.0	3	314.3	-60.9	3.1	-3.2	-2.7		0.0	0.0	0.0	6.7	42.0
Tank Farm Pump 2	CNEL	99.0	3	333.7	-61.5	3.3	0.0	-2.4		0.0	0.0	0.0	6.7	45.1
Tank Farm Pump 3	CNEL	99.0	3	339.1	-61.6	3.3	0.0	-2.4		0.0	0.0	0.0	6.7	45.0
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	125.3	-52.9	1.3	0.0	-1.8		0.0	0.1	-13.8	0.0	45.1
XF-1502 Splitter Area 1	CNEL	104.5		177.3	-56.0	2.4	0.0	-1.3	-0.16	-4.2	0.0	0.0	6.7	51.9
XF-1502 Splitter Area 2	CNEL	104.5		173.5	-55.8	2.3	0.0	-1.3	-0.12	-4.2	0.0	0.0	6.7	52.1
XF-1504 Splitter Area 1	CNEL	104.5		177.7	-56.0	2.4	-4.0	-1.1	0.00	-3.9	0.0	0.0	6.7	48.5
XF-1504 Splitter Area 2	CNEL	104.5		173.9	-55.8	2.3	-1.2	-1.6	-0.13	-4.5	0.0	0.0	6.7	50.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 251, 250, 271, 270	CNEL	101.1	128	180.4	-56.1	2.1	0.0	-0.7		-2.9	0.0	0.0	6.7	50.1	
XF 260, 261A, 261 B	CNEL	99.9	97	129.7	-53.3	1.9	0.0	-0.6		-3.0	0.0	0.0	6.7	51.6	
XF 304, XF 321	CNEL	110.5	56	211.7	-57.5	2.3	-0.3	-0.8	-0.16	-2.9	0.2	0.0	6.7	57.9	
XF 313, XF 314	CNEL	113.0	18	241.6	-58.7	2.4	-4.9	-0.9	-0.61	-3.6	0.0	0.0	6.7	53.4	
XF 335-1, XF 335-2	CNEL	113.4	54	223.6	-58.0	2.3	-3.3	-1.0	-0.15	-2.9	0.4	0.0	6.7	57.4	
XF 353A/B	CNEL	95.4	35	252.5	-59.0	2.2	0.0	-0.9	-0.02	-2.9	0.0	0.0	6.7	41.5	
XF 353A/B	CNEL	95.4	35	241.9	-58.7	2.3	0.0	-0.9	0.00	-2.9	0.0	0.0	6.7	41.9	
XF 354A/B	CNEL	95.4	35	223.4	-58.0	1.9	-1.0	-0.8	0.00	-2.9	0.0	0.0	6.7	41.4	
XF 503	CNEL	113.0	21	158.1	-55.0	2.1	0.0	-2.3	-1.05	-3.9	0.0	0.0	6.7	59.6	
XF - 1601	CNEL	96.6		170.0	-55.6	2.3	-0.2	-0.6		-2.8	0.0	0.0	6.7	46.4	
XF - 1602	CNEL	96.6		171.3	-55.7	2.4	-0.4	-0.6		-3.0	0.0	0.0	6.7	45.9	
XF Module 1510	CNEL	108.3		169.3	-55.6	2.3	0.0	-1.2	-0.10	-4.2	0.0	0.0	6.7	56.2	
XF Module 1519	CNEL	109.0		174.7	-55.8	2.3	0.0	-1.3	-0.21	-4.2	0.0	0.0	6.7	56.5	
xxxx xxxx xxxx xxxx	CNEL		606								2.4			27.9	
xxxx xxxx xxxx xxxx	CNEL		606								2.0			28.2	
xxxx xxxx xxxx xxxx	CNEL		917								1.3			39.0	
xxxx xxxx xxxx xxxx	CNEL		917								0.3			38.2	
xxxx xxxx xxxx xxxx	CNEL		608								1.5			38.8	
xxxx xxxx xxxx xxxx	CNEL		608								1.7			38.8	
xxxx xxxx xxxx xxxx	CNEL		228								2.3			32.1	
xxxx xxxx xxxx xxxx	CNEL		520								1.3			37.4	
xxxx xxxx xxxx xxxx	CNEL		1341								2.9			47.0	
xxxx xxxx xxxx xxxx	CNEL		450								3.2			31.5	
Receiver SS-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.2 dB(A) Ld 7-19 dB(A) Leq,N 64.2 dB(A) Le 19-22 dB(A) CNEL 71.1 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	237.0	-58.5	3.4	-20.3	-1.3		0.0	0.2	0.0	6.7	34.6	
18-1855 A/B	CNEL	98.8		170.6	-55.6	3.3	-1.2	-1.1	-0.55	0.0	0.8	0.0	6.7	51.1	
18-1856 A/B	CNEL	98.8		176.2	-55.9	3.3	-1.2	-1.2	-0.63	0.0	0.5	0.0	6.7	50.4	
18-1857 A/B	CNEL	98.8		165.4	-55.4	3.2	-1.1	-1.1	-0.44	0.0	0.5	0.0	6.7	51.2	
18-1858 A/B	CNEL	98.8		161.8	-55.2	2.8	-0.5	-1.0	-0.36	0.0	0.1	0.0	6.7	51.4	
18-PK 1802 Air Compressor Package	CNEL	103.1		175.2	-55.9	2.5	-2.7	-1.2	-0.77	0.0	0.0	0.0	6.7	51.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	79.7	-49.0	1.2	-0.2	-1.8		0.0	0.1	-4.8	1.0	55.6	
Air Compressor C 1	CNEL	110.0	5	248.8	-58.9	2.9	-5.9	-1.1	-0.74	0.0	0.7	0.0	6.7	53.7	
Air Compressor Pump	CNEL	100.3		112.2	-52.0	2.3	-18.8	-1.6		0.0	7.5	0.0	6.7	44.3	
Blower F 401	CNEL	113.0		139.7	-53.9	0.0	-12.6	-0.2		0.0	0.0	0.0	6.7	53.1	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.7	-57.4	1.8	-1.2	-1.4		0.0	0.0	0.0	6.7	47.1	
Boiler Feed Water Pump A	CNEL	97.1	3	191.7	-56.6	3.3	-0.4	-1.3	-0.21	0.0	0.0	0.0	6.7	48.5	
Boiler Feed Water Pump B	CNEL	97.1	3	189.5	-56.5	3.3	-0.9	-1.3	-0.27	0.0	0.0	0.0	6.7	48.1	
C370 A Motor	CNEL	103.6	3	152.1	-54.6	2.0	-10.0	-0.7		0.0	2.1	0.0	6.7	49.1	
C370 B Motor	CNEL	108.6	3	156.2	-54.9	2.0	-10.5	-0.7		0.0	2.9	0.0	6.7	54.2	
C370A	CNEL	103.8	5	156.3	-54.9	2.0	-9.2	-0.8		0.0	2.0	0.0	6.7	49.7	
C370B	CNEL	103.8	5	160.3	-55.1	2.0	-9.3	-0.8		0.0	2.6	0.0	6.7	50.0	
C-270 A	CNEL	106.3	6	180.8	-56.1	2.0	-5.9	-1.0	-0.15	0.0	0.8	0.0	6.7	52.5	
C-270 B	CNEL	106.3	6	175.9	-55.9	1.9	-6.9	-0.9	-0.05	0.0	0.5	0.0	6.7	51.7	
C-270 C	CNEL	106.3	6	171.2	-55.7	1.8	-6.9	-1.1		0.0	0.2	0.0	6.7	51.4	
C-301 Compressor	CNEL	106.8	3	202.3	-57.1	2.4	-4.7	-1.1	-0.94	0.0	0.0	0.0	6.7	52.0	
C-301 Motor	CNEL	106.8	4	198.7	-57.0	2.4	-0.9	-2.3	-0.93	0.0	0.0	0.0	6.7	54.8	
C-351 Compressor	CNEL	106.8	4	200.7	-57.0	2.2	-3.0	-1.3	-0.54	0.0	0.0	0.0	6.7	53.8	
C-351 Motor	CNEL	106.8	5	199.7	-57.0	1.8	-4.6	-2.2	-0.56	0.0	0.0	0.0	6.7	50.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.4	-49.9	0.3	-0.9	-0.3		0.0	0.2	-35.6	0.0	48.5	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.7	-56.6	1.3	-10.9	-0.8	-0.81	3.3	1.7	0.0	6.7	48.6	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	1.5	-4.4	-1.5	-1.01	0.0	0.8	0.0	6.7	46.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.3	-57.0	1.4	-18.0	-0.5	-0.69	-7.8	10.7	0.0	6.7	41.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.1	-56.7	1.2	-10.3	-1.0	-0.40	1.2	0.0	0.0	6.7	51.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	1.3	-11.9	-0.8	-0.75	0.9	0.5	0.0	6.7	43.1	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	1.5	-15.6	-0.5	-0.04	-6.9	0.2	0.0	6.7	28.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.7	-55.7	2.0	-10.8	-0.6		2.3	0.0	0.0	6.7	41.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.0	-55.8	1.9	-14.5	-0.6		-2.8	0.0	0.0	6.7	32.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.4	-55.7	1.8	-5.7	-1.0		-1.4	0.3	0.0	6.7	45.6	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.1	-55.7	1.8	-16.3	-0.5		-0.6	0.0	0.0	6.7	36.2	
Cooling Tower M 512	CNEL	95.7		166.9	-55.4	2.9	-15.8	-0.6		0.0	1.0	0.0	6.7	34.4	
Cooling Tower M 513	CNEL	95.7		166.9	-55.4	2.9	-14.5	-0.6		0.0	0.7	0.0	6.7	35.4	
Cooling Tower M 514	CNEL	95.7		166.6	-55.4	2.9	-15.4	-0.6		0.0	0.9	0.0	6.7	34.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	204.5	-57.2	1.2	-4.0	-1.1		-3.2	1.0	0.0	6.7	39.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	236.6	-58.5	3.1	-12.8	-0.1		0.0	0.0	0.0	6.7	33.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	237.7	-58.5	3.1	-16.2	-0.1		0.0	0.0	0.0	6.7	28.1
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	235.9	-58.4	2.3	-10.5	-0.1		0.0	0.0	0.0	6.7	33.4
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	234.1	-58.4	3.0	-5.5	-0.1		0.0	0.0	0.0	6.7	38.9
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	235.2	-58.4	3.1	-13.1	-0.1		0.0	0.0	0.0	6.7	33.5
FD Motor	CNEL	103.3	2	237.2	-58.5	3.5	-9.4	-2.3		0.0	0.5	0.0	6.7	43.7
Feed Compressor -B Motor	CNEL	103.8	5	163.9	-55.3	2.1	-10.1	-1.1		0.0	0.0	0.0	6.7	46.0
Feed Compressor-A Compressor	CNEL	104.0	5	160.4	-55.1	2.1	-10.1	-0.7		0.0	2.4	0.0	6.7	49.2
Feed Compressor-A Motor	CNEL	103.8	6	156.0	-54.9	2.1	-9.3	-1.1		0.0	1.8	0.0	6.7	49.0
Feed Compressor-B Compressor	CNEL	104.0	7	168.6	-55.5	2.2	-8.9	-0.8		0.0	0.1	0.0	6.7	47.7
H2S Compressor 18-C-271	CNEL	105.3	6	214.8	-57.6	2.8	-3.9	-1.2	-0.76	0.0	1.5	0.0	6.7	52.7
Heater # 5-Heater	CNEL	91.1	13	206.5	-57.3	1.9	-7.9	-0.6		0.0	0.0	0.0	6.7	36.8
Heater # 5-Heater	CNEL	91.1	13	201.5	-57.1	1.8	-5.4	-0.9		0.0	0.0	0.0	6.7	39.2
Heater # 5-Heater	CNEL	91.1	13	211.5	-57.5	1.9	-9.2	-0.6		0.0	0.0	0.0	6.7	35.4
Hydro Heater H-402	CNEL	98.1		172.0	-55.7	1.6	-5.9	-0.7		0.0	1.1	0.0	6.7	45.2
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	236.1	-58.5	3.7	-11.0	0.0		0.0	0.0	0.0	6.7	27.8
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	234.2	-58.4	3.7	-8.8	0.0		0.0	0.0	0.0	6.7	30.4
ID Fan-ID Fan - North	CNEL	92.2	8	235.6	-58.4	3.7	-11.1	0.0		0.0	0.0	0.0	6.7	33.0
ID Fan-ID Fan - North 2	CNEL	91.4	7	236.4	-58.5	3.7	-10.9	0.0		0.0	0.0	0.0	6.7	32.3
ID Fan-ID Fan - South	CNEL	92.3	9	233.0	-58.3	3.7	-3.2	-0.1		0.0	0.0	0.0	6.7	41.1
ID Fan-ID Fan - South 2	CNEL	91.4	7	235.2	-58.4	3.7	-3.8	-0.1		0.0	0.0	0.0	6.7	39.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	234.8	-58.4	3.1	-4.9	-0.1		0.0	0.0	0.0	6.7	40.4
Motor & Pump P 56A/B	CNEL	93.7		189.6	-56.5	3.0	-6.0	-1.1	-0.48	0.0	0.0	0.0	6.7	39.2
Motor & Pump P 120/121	CNEL	96.2	2	236.3	-58.5	3.2	-19.2	-0.8	-0.80	0.0	0.0	0.0	6.7	26.8
Motor & Pump P 211/212	CNEL	93.7		173.0	-55.8	2.8	-8.2	-1.1	-0.65	0.0	0.0	0.0	6.7	37.4
Motor & Pump P 215/214	CNEL	94.6		177.8	-56.0	2.9	-11.7	-0.9	-0.77	0.0	0.0	0.0	6.7	34.7
Motor & Pump P 216	CNEL	98.3		176.3	-55.9	2.6	-5.1	-1.5	-0.66	0.0	0.9	0.0	6.7	45.3
Motor & Pump P 217/218	CNEL	93.7		174.8	-55.8	3.1	-9.0	-1.1	-0.70	0.0	0.0	0.0	6.7	36.9
Motor & Pump P 300	CNEL	97.1	2	242.1	-58.7	3.2	-17.5	-0.9	-1.02	0.0	0.3	0.0	6.7	29.3
Motor & Pump P 301	CNEL	102.1	2	240.5	-58.6	3.2	-17.4	-0.9	-1.05	0.0	0.1	0.0	6.7	34.2
Motor & Pump P 302	CNEL	97.1	2	243.8	-58.7	3.3	-17.6	-0.9	-0.99	0.0	0.8	0.0	6.7	29.7
Motor & Pump P 303	CNEL	97.1	2	245.3	-58.8	3.2	-17.4	-0.9	-0.98	0.0	1.0	0.0	6.7	30.0
Motor & Pump P 305	CNEL	97.5	2	246.7	-58.8	3.2	-17.2	-0.9	-0.95	0.0	1.3	0.0	6.7	30.8
Motor & Pump P 306	CNEL	112.6	4	255.3	-59.1	2.7	-15.2	-0.9	-0.87	0.0	0.6	0.0	6.7	46.6
Motor & Pump P 307	CNEL	102.1	2	235.9	-58.4	3.2	-13.2	-0.9	-1.13	0.0	0.0	0.0	6.7	38.4
Motor & Pump P 309	CNEL	97.5	2	248.1	-58.9	3.2	-17.1	-0.9	-0.93	0.0	1.5	0.0	6.7	31.0
Motor & Pump P 312	CNEL	101.5	2	215.2	-57.7	3.2	-3.0	-1.0	-1.23	0.0	0.3	0.0	6.7	48.7
Motor & Pump P 313	CNEL	101.5	2	213.6	-57.6	3.2	-3.4	-1.0	-1.23	0.0	0.3	0.0	6.7	48.5
Motor & Pump P 315	CNEL	102.9	2	207.6	-57.3	3.0	-4.4	-1.0	-1.24	0.0	0.9	0.0	6.7	49.5
Motor & Pump P 316	CNEL	102.9	2	205.8	-57.3	3.0	-4.6	-0.9	-1.24	0.0	1.3	0.0	6.7	49.7
Motor & Pump P 317	CNEL	102.9	2	203.9	-57.2	2.9	-4.7	-0.9	-1.24	0.0	1.5	0.0	6.7	49.9
Motor & Pump P 318	CNEL	100.2	1	209.3	-57.4	3.2	-4.3	-0.9	-1.24	0.0	0.5	0.0	6.7	46.7
Motor & Pump P 319	CNEL	100.2	1	210.7	-57.5	3.2	-4.0	-0.9	-1.24	0.0	0.4	0.0	6.7	46.8
Motor & Pump P 327	CNEL	111.2	3	263.1	-59.4	3.5	-21.6	-1.6	-0.74	0.0	2.9	0.0	6.7	41.1
Motor & Pump P 328	CNEL	109.9	5	249.7	-58.9	3.1	-16.6	-0.8	-0.90	0.0	0.5	0.0	6.7	42.9
Motor & Pump P 329	CNEL	110.2	5	252.5	-59.0	3.2	-16.5	-0.9	-0.83	0.0	0.7	0.0	6.7	43.5
Motor & Pump P 451	CNEL	93.7		165.1	-55.3	2.7	-9.9	-1.0		0.0	0.0	0.0	6.7	36.8
Motor & Pump P 453	CNEL	93.7		153.1	-54.7	2.6	-6.9	-1.0		0.0	0.0	0.0	6.7	40.4
Motor & Pump P 454	CNEL	93.7		165.9	-55.4	2.7	-13.1	-0.9		0.0	6.7	0.0	6.7	40.3
Motor & Pump P 457	CNEL	93.7		151.6	-54.6	2.6	-7.7	-0.9		0.0	0.0	0.0	6.7	39.6
Motor & Pump P 458	CNEL	93.7		164.8	-55.3	2.7	-6.8	-1.2		0.0	0.0	0.0	6.7	39.7
Motor & Pump P 459	CNEL	93.7		166.9	-55.4	2.8	-12.1	-0.9		0.0	6.0	0.0	6.7	40.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.1	-56.6	3.2	-13.2	-1.0		0.0	0.0	0.0	6.7	35.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.8	-56.6	3.2	-10.7	-1.1		0.0	0.0	0.0	6.7	37.7
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.8	-58.0	3.6	-18.4	-1.1	-0.83	0.0	0.0	0.0	6.7	27.3
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		224.9	-58.0	3.6	-18.3	-1.1	-0.85	0.0	0.0	0.0	6.7	27.4
Motor & Pump P 1601 A	CNEL	96.3	2	188.2	-56.5	3.0	-20.8	-1.1		0.0	0.0	0.0	6.7	27.6
Motor & Pump P 1601 B	CNEL	96.3	2	188.1	-56.5	3.0	-21.1	-1.1		0.0	0.2	0.0	6.7	27.4
Motor & Pump P 1602 A	CNEL	96.3	2	187.9	-56.5	3.0	-21.3	-1.1		0.0	0.2	0.0	6.7	27.3
Motor & Pump P 1602 B	CNEL	96.5	2	187.9	-56.5	3.0	-21.4	-1.1		0.0	2.6	0.0	6.7	29.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.4	-56.5	3.3	-19.1	-1.0	-0.08	0.0	0.0	0.0	6.7	29.8
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.3	-56.8	3.4	-18.0	-1.0	-0.18	0.0	0.0	0.0	6.7	30.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.7	-56.9	3.4	-17.6	-1.0	-0.24	0.0	0.0	0.0	6.7	31.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.2	-56.7	3.3	-12.6	-0.9		0.0	0.0	0.0	6.7	36.4
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	194.9	-56.8	3.3	-12.9	-0.9		0.0	0.0	0.0	6.7	36.1
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.2	-57.1	3.5	-12.6	-1.0	-0.28	0.0	0.0	0.0	6.7	35.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.4	-57.1	3.5	-19.0	-1.0	-0.34	0.0	0.0	0.0	6.7	29.1
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.7	-57.1	3.4	-16.6	-1.0	-0.34	0.0	0.0	0.0	6.7	31.3
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.5	-57.1	3.5	-18.9	-1.0	-0.34	0.0	0.0	0.0	6.7	29.1
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	243.5	-58.7	3.2	-3.0	-1.5		0.0	0.0	0.0	6.7	50.8
P-2 A/B	CNEL	98.5		293.2	-60.3	3.6	-12.0	-1.0	-1.48	0.0	4.8	0.0	6.7	38.7
P-50 A/B	CNEL	98.1		257.8	-59.2	3.6	-21.8	-1.1	-0.21	0.0	0.0	0.0	6.7	26.1
P-51 A/B	CNEL	98.1		257.3	-59.2	3.5	-13.2	-1.0	-0.21	0.0	0.0	0.0	6.7	34.8
P-060 A/B	CNEL	98.1		259.2	-59.3	3.6	-22.2	-1.1	-1.50	0.0	0.7	0.0	6.7	25.0
P-63	CNEL	98.5		261.9	-59.4	3.5	-11.4	-0.8	-1.50	0.0	0.5	0.0	6.7	36.0
P-70 A/B	CNEL	98.1		258.5	-59.2	3.6	-21.2	-1.1	-1.43	0.0	2.8	0.0	6.7	28.2
P-73 A/B	CNEL	98.5		288.7	-60.2	3.6	-12.2	-1.0	-1.49	0.0	0.2	0.0	6.7	34.1
P-251 A/B	CNEL	98.2		131.2	-53.4	3.2	-3.2	-1.0	-0.21	0.0	1.4	0.0	6.7	51.7
P-252 A/B	CNEL	98.2		139.3	-53.9	3.3	-2.9	-1.1	-0.43	0.0	0.0	0.0	6.7	50.0
P-253	CNEL	98.2		146.3	-54.3	3.4	-2.7	-1.1	-0.48	0.0	0.0	0.0	6.7	49.7
P-254 A/B	CNEL	98.2		141.9	-54.0	3.3	-2.8	-1.1	-0.46	0.0	0.0	0.0	6.7	49.8
P-255 A/B	CNEL	98.2		138.7	-53.8	3.2	-2.9	-1.1	-0.38	0.0	1.4	0.0	6.7	51.3
P-255 A/B	CNEL	98.2		124.5	-52.9	3.1	-3.4	-1.0	-0.04	0.0	1.8	0.0	6.7	52.5
P-256 A/B	CNEL	98.2		134.5	-53.6	3.2	-3.1	-1.0	-0.28	0.0	1.3	0.0	6.7	51.5
P-259 A/B	CNEL	98.2		128.0	-53.1	3.2	-3.3	-1.0	-0.13	0.0	1.3	0.0	6.7	51.8
P-260	CNEL	99.1		122.1	-52.7	3.2	-3.5	-0.9	-0.37	0.0	2.7	0.0	6.7	54.1
P-261 A/B	CNEL	98.0		102.3	-51.2	2.9	-3.9	-0.8	-0.13	0.0	0.0	0.0	6.7	51.6
P-262 A/B	CNEL	99.1		114.8	-52.2	3.1	-3.8	-0.8	-0.35	0.0	0.0	0.0	6.7	51.7
P-263 A/B	CNEL	99.4		118.4	-52.5	3.1	-3.6	-0.9	-0.37	0.0	0.0	0.0	6.7	51.9
P-270 A/B	CNEL	98.5		183.6	-56.3	3.5	-2.0	-1.3	-0.68	0.0	0.0	0.0	6.7	48.4
P-271 A/B	CNEL	98.2		151.3	-54.6	3.3	-2.5	-1.1	-0.67	0.0	0.0	0.0	6.7	49.3
P-272 A/B	CNEL	98.2		146.7	-54.3	3.3	-2.6	-1.1	-0.57	0.0	0.0	0.0	6.7	49.6
P-273 A/B	CNEL	98.5		180.1	-56.1	3.5	-2.1	-1.3	-0.65	0.0	0.0	0.0	6.7	48.6
P-275 A/B/C	CNEL	98.2		157.0	-54.9	3.4	-2.4	-1.2	-0.74	0.0	0.2	0.0	6.7	49.3
P-305	CNEL	99.3		188.1	-56.5	3.1	-18.7	-0.6	-0.10	0.0	0.7	0.0	6.7	33.9
P-306	CNEL	100.8		198.1	-56.9	3.1	-19.8	-0.6	-0.32	0.0	0.9	0.0	6.7	33.8
P-309	CNEL	99.3		190.6	-56.6	3.1	-18.3	-0.6	-0.15	0.0	0.6	0.0	6.7	34.0
P-328	CNEL	100.8		203.9	-57.2	3.2	-19.1	-0.6	-0.45	0.0	0.8	0.0	6.7	34.1
P-329	CNEL	100.8		201.1	-57.1	3.2	-19.4	-0.6	-0.39	0.0	0.9	0.0	6.7	34.0
P-353	CNEL	98.5		190.9	-56.6	2.7	-1.2	-1.3	-0.14	0.0	0.0	0.0	6.7	48.7
P-358 A/B	CNEL	99.4		213.8	-57.6	3.5	-8.5	-0.8	-0.91	0.0	0.0	0.0	6.7	41.8
P-359 A/B	CNEL	99.4		213.1	-57.6	3.4	-1.9	-1.5	-0.57	0.0	0.4	0.0	6.7	48.4
P-360 A/B	CNEL	99.4		211.9	-57.5	3.4	-2.0	-1.5	-0.56	0.0	0.0	0.0	6.7	47.9
P-361A	CNEL	98.1		262.8	-59.4	3.4	-0.7	-1.6	-1.62	0.0	0.0	0.0	6.7	44.9
P-371 A/B	CNEL	98.0		146.8	-54.3	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.4
P-373 A/B	CNEL	98.0		151.4	-54.6	3.0	0.0	-0.9		0.0	1.3	0.0	6.7	53.5
P-374 A/B	CNEL	98.0		150.5	-54.5	3.0	0.0	-0.8		0.0	0.0	0.0	6.7	52.2
P-375 A/B	CNEL	98.0		149.0	-54.5	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.3
P-376	CNEL	98.0		149.9	-54.5	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.3
P-376 A/B	CNEL	98.0		152.5	-54.7	3.0	0.0	-0.9		0.0	1.4	0.0	6.7	53.5
P-377	CNEL	98.0		149.6	-54.5	2.9	0.0	-0.8		0.0	0.0	0.0	6.7	52.3
P-1101 A	CNEL	98.9		285.3	-60.1	3.3	-2.8	-1.2	-1.45	0.0	0.0	0.0	6.7	43.3
P-1103	CNEL	98.9		283.8	-60.1	3.3	-3.0	-1.2	-1.45	0.0	0.0	0.0	6.7	43.2
P-1105 A/B/C	CNEL	98.9		290.9	-60.3	3.3	-2.5	-1.3	-1.44	0.0	0.2	0.0	6.7	43.7
P-1800	CNEL	98.9		315.5	-61.0	3.6	-15.4	-1.1		0.0	6.6	0.0	6.7	38.3
P-1801	CNEL	98.9		365.0	-62.2	3.7	-8.8	-1.3	-1.16	0.0	0.1	0.0	6.7	35.7
P-1802	CNEL	98.9		364.8	-62.2	3.7	-11.9	-1.3	-1.49	0.0	0.1	0.0	6.7	32.4
P-1803	CNEL	99.1		276.4	-59.8	3.8	-5.5	-1.3	-1.81	0.0	3.1	0.0	6.7	44.3
P-1804	CNEL	99.1		285.5	-60.1	3.7	-6.9	-1.2	-1.77	0.0	0.1	0.0	6.7	39.6
P-1805	CNEL	99.1		288.6	-60.2	3.7	-7.0	-1.1	-1.77	0.0	0.1	0.0	6.7	39.4
P-1806	CNEL	99.1		253.1	-59.1	3.8	-3.3	-1.1	-1.40	0.0	0.0	0.0	6.7	44.7
P-1809 A	CNEL	98.9		327.5	-61.3	3.6	-14.9	-1.1	-1.46	0.0	5.0	0.0	6.7	35.4
P-1810 A/B/C	CNEL	99.0		293.6	-60.3	3.8	-4.7	-1.5	-1.76	0.0	0.0	0.0	6.7	41.1
P-1811 A/B	CNEL	99.1		259.6	-59.3	3.8	-3.7	-1.1	-1.44	0.0	0.0	0.0	6.7	44.0
P-1811 A/B	CNEL	99.1		292.4	-60.3	3.7	-5.8	-1.3	-1.76	0.0	0.4	0.0	6.7	40.8
P-1847 A/B	CNEL	99.4		294.1	-60.4	4.1	-1.1	-1.8	-0.80	0.0	1.8	0.0	6.7	47.9
P-1849 A/B	CNEL	99.4		299.9	-60.5	4.1	-1.1	-1.8	-0.82	0.0	1.9	0.0	6.7	47.8
P-1853	CNEL	99.1		142.1	-54.0	2.9	-3.5	-1.1		0.0	0.0	0.0	6.7	50.0
Piping Furnace Tanks	CNEL	87.1	72	201.2	-57.1	2.0	-3.3	-6.5		0.0	1.4	0.0	6.7	30.3
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	179.8	-56.1	2.0	-3.9	-6.3		0.0	0.1	0.0	6.7	40.9
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	196.9	-56.9	2.5	-14.4	-1.5		0.0	0.3	0.0	6.7	51.3
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	196.3	-56.8	2.5	-17.8	-4.3		0.0	0.7	0.0	6.7	46.1
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	370.1	-62.4	2.5	-22.3	-1.5		0.0	0.4	0.0	6.7	34.1
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	354.8	-62.0	2.5	-16.2	-1.3		0.0	5.7	0.0	6.7	46.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	326.5	-61.3	2.4	-11.7	-1.2	-0.03	0.0	0.3	0.0	6.7	39.3	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	340.8	-61.6	2.3	-8.3	-1.4		0.0	0.1	0.0	6.7	48.9	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	320.0	-61.1	2.0	-0.2	-1.6	-0.93	0.0	0.1	0.0	6.7	48.9	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	332.4	-61.4	2.4	-7.9	-1.4	-0.26	0.0	0.0	0.0	6.7	41.8	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	318.9	-61.1	2.3	-0.1	-1.7	-0.52	0.0	0.0	0.0	6.7	52.3	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	321.7	-61.1	2.3	-8.7	-1.3		0.0	2.8	0.0	6.7	46.7	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	345.5	-61.8	1.5	-5.0	-1.7		0.0	0.2	0.0	6.7	53.0	
PSA Pipe 3" Lagging	CNEL	80.6	11	202.0	-57.1	1.9	-11.1	-1.5		0.0	0.0	0.0	6.7	19.5	
PSA Skid Additional Piping w NC	CNEL	116.6	57	196.1	-56.8	2.5	-14.7	-1.5		0.0	0.2	0.0	6.7	52.8	
Reformer-Burner Reformer East	CNEL	97.3	269	222.9	-58.0	1.7	-19.5	-1.1		0.0	6.8	0.0	6.7	36.9	
Reformer-Burner Reformer North	CNEL	95.9	192	212.3	-57.5	1.8	-1.2	-1.8		0.0	0.0	0.0	6.7	43.8	
Reformer-Burner Reformer South	CNEL	95.8	191	221.7	-57.9	1.8	-15.2	-1.0		0.0	1.5	0.0	6.7	34.7	
Reformer-Burner Reformer West	CNEL	97.3	268	210.9	-57.5	1.8	-1.5	-1.8		0.0	0.0	0.0	6.7	47.9	
RFG A from battery to process	CNEL	99.4	87	183.4	-56.3	2.0	-3.8	-6.4		0.0	0.1	0.0	6.7	41.6	
RFG A from battery to process w NC	CNEL	115.2	42	198.9	-57.0	2.5	-16.5	-4.5		0.0	0.9	0.0	6.7	47.4	
Stack Noise	CNEL	108.4		239.6	-58.6	1.3	-0.6	-2.0		-7.6	0.0	0.0	6.7	47.6	
Steam Turbine-Facade 01	CNEL	99.6	29	177.2	-56.0	3.0	0.0	-4.3		0.0	0.0	0.0	6.7	49.0	
Steam Turbine-Facade 02	CNEL	96.2	13	180.0	-56.1	3.0	-10.7	-2.4		0.0	0.2	0.0	6.7	36.9	
Steam Turbine-Facade 03	CNEL	99.6	29	180.8	-56.1	3.0	-18.9	-1.9		0.0	12.7	0.0	6.7	45.0	
Steam Turbine-Facade 04	CNEL	96.2	13	178.1	-56.0	3.0	0.0	-4.3		0.0	2.6	0.0	6.7	48.2	
Steam Turbine-Roof 01	CNEL	99.7	30	179.1	-56.1	2.1	-4.8	-4.3		0.0	2.9	0.0	6.7	46.3	
Tank Farm Pump 1	CNEL	99.0	3	294.4	-60.4	4.0	-0.4	-2.4	-0.68	0.0	0.0	0.0	6.7	45.8	
Tank Farm Pump 2	CNEL	99.0	3	312.7	-60.9	4.0	-0.4	-2.5	-0.72	0.0	0.0	0.0	6.7	45.2	
Tank Farm Pump 3	CNEL	99.0	3	317.7	-61.0	4.0	-0.4	-2.6	-0.74	0.0	0.0	0.0	6.7	45.0	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	131.9	-53.4	1.1	-0.1	-1.8		0.0	0.1	-13.8	0.0	44.5	
XF-1502 Splitter Area 1	CNEL	104.5		198.1	-56.9	1.5	-2.6	-1.3	-0.25	-4.3	0.0	0.0	6.7	47.4	
XF-1502 Splitter Area 2	CNEL	104.5		194.4	-56.8	1.5	-2.8	-1.3	-0.17	-4.3	0.0	0.0	6.7	47.4	
XF-1504 Splitter Area 1	CNEL	104.5		197.7	-56.9	1.5	-4.3	-1.2	-0.25	-4.2	0.0	0.0	6.7	45.9	
XF-1504 Splitter Area 2	CNEL	104.5		194.0	-56.7	1.5	-4.2	-1.1	-0.17	-4.2	0.0	0.0	6.7	46.3	
XF 251, 250, 271, 270	CNEL	101.1	128	153.5	-54.7	0.8	-0.2	-0.8	-0.60	-3.4	0.0	0.0	6.7	48.9	
XF 260, 261A, 261 B	CNEL	99.9	97	107.1	-51.6	0.9	0.0	-0.5	-0.12	-3.2	0.0	0.0	6.7	51.9	
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	0.4	-1.1	-1.1	-1.29	-3.5	0.1	0.0	6.7	52.1	
XF 313, XF 314	CNEL	113.0	18	270.5	-59.6	1.1	-3.4	-1.0	-1.10	-3.8	0.0	0.0	6.7	51.9	
XF 335-1, XF 335-2	CNEL	113.4	54	253.1	-59.1	0.8	-4.5	-1.2	-0.95	-3.1	0.5	0.0	6.7	52.5	
XF 353A/B	CNEL	95.4	35	219.5	-57.8	0.4	-0.2	-1.1	-0.72	-3.6	0.0	0.0	6.7	39.0	
XF 353A/B	CNEL	95.4	35	211.2	-57.5	0.6	-0.2	-1.0	-0.42	-3.6	0.0	0.0	6.7	40.0	
XF 354A/B	CNEL	95.4	35	188.4	-56.5	0.3	-4.5	-0.5	0.00	-2.5	0.0	0.0	6.7	38.4	
XF 503	CNEL	113.0	21	187.6	-56.5	0.8	-0.2	-3.1	-1.07	-4.2	0.0	0.0	6.7	55.5	
XF - 1601	CNEL	96.6		187.3	-56.4	1.0	-3.3	-0.9		-3.1	0.0	0.0	6.7	40.5	
XF - 1602	CNEL	96.6		187.4	-56.4	1.0	-2.9	-1.0		-3.2	0.0	0.0	6.7	40.8	
XF Module 1510	CNEL	108.3		191.3	-56.6	1.5	-4.2	-1.3	-0.10	-4.2	0.0	0.0	6.7	50.2	
XF Module 1519	CNEL	109.0		196.6	-56.9	1.5	-4.0	-1.3	-0.20	-4.2	0.0	0.0	6.7	50.6	
xxxx xxxx xxxx xxxx	CNEL		606								1.7			26.1	
xxxx xxxx xxxx xxxx	CNEL		606								1.5			26.1	
xxxx xxxx xxxx xxxx	CNEL		917								1.9			39.4	
xxxx xxxx xxxx xxxx	CNEL		917								1.6			39.0	
xxxx xxxx xxxx xxxx	CNEL		608								0.9			33.1	
xxxx xxxx xxxx xxxx	CNEL		608								0.9			33.0	
xxxx xxxx xxxx xxxx	CNEL		228								2.0			32.0	
xxxx xxxx xxxx xxxx	CNEL		520								2.1			34.9	
xxxx xxxx xxxx xxxx	CNEL		1341								1.5			47.7	
xxxx xxxx xxxx xxxx	CNEL		450								3.3			32.1	
Receiver SS-4 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.3 dB(A) Ld 7-19 dB(A) Leq,N 65.6 dB(A) Le 19-22 dB(A) CNEL 72.4 dB(A) Lmax day hr dB(A) Ld 7-															
ID Fan Motor	CNEL	104.4	2	237.0	-58.5	3.0	-19.5	-1.2		0.0	0.3	0.0	6.7	35.1	
18-1855 A/B	CNEL	98.8		170.7	-55.6	2.6	0.0	-0.9	-0.58	0.0	0.6	0.0	6.7	51.5	
18-1856 A/B	CNEL	98.8		176.2	-55.9	2.6	0.0	-0.9	-0.66	0.0	0.3	0.0	6.7	50.9	
18-1857 A/B	CNEL	98.8		165.5	-55.4	2.6	0.0	-0.9	-0.45	0.0	0.3	0.0	6.7	51.7	
18-1858 A/B	CNEL	98.8		161.8	-55.2	2.6	0.0	-0.9	-0.37	0.0	0.1	0.0	6.7	51.8	
18-PK 1802 Air Compressor Package	CNEL	103.1		175.3	-55.9	2.9	0.0	-0.6	-0.82	0.0	0.0	0.0	6.7	55.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	79.8	-49.0	1.3	-0.1	-1.7		0.0	0.1	-4.8	1.0	55.7	
Air Compressor C 1	CNEL	110.0	5	248.9	-58.9	3.3	-5.6	-0.9	-0.77	0.0	0.9	0.0	6.7	54.7	
Air Compressor Pump	CNEL	100.3		112.3	-52.0	2.5	-18.6	-1.5		0.0	8.2	0.0	6.7	45.6	
Blower F 401	CNEL	113.0		139.7	-53.9	2.1	-12.8	-0.2		0.0	0.0	0.0	6.7	54.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.7	-57.4	2.1	-0.2	-1.0		0.0	0.0	0.0	6.7	48.7	
Boiler Feed Water Pump A	CNEL	97.1	3	191.7	-56.6	2.7	0.0	-1.2	-0.22	0.0	0.0	0.0	6.7	48.4	
Boiler Feed Water Pump B	CNEL	97.1	3	189.5	-56.5	2.7	-0.5	-1.1	-0.28	0.0	0.0	0.0	6.7	48.0	
C370 A Motor	CNEL	103.6	3	152.1	-54.6	2.6	-8.1	-0.8		0.0	1.3	0.0	6.7	50.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C370 B Motor	CNEL	108.6	3	156.2	-54.9	2.6	-8.8	-0.8		0.0	3.2	0.0	6.7	56.6
C370A	CNEL	103.8	5	156.3	-54.9	2.6	-7.0	-0.9		0.0	1.3	0.0	6.7	51.7
C370B	CNEL	103.8	5	160.3	-55.1	2.6	-7.1	-0.9		0.0	1.9	0.0	6.7	51.9
C-270 A	CNEL	106.3	6	180.8	-56.1	2.4	-5.3	-1.1	-0.15	0.0	0.8	0.0	6.7	53.5
C-270 B	CNEL	106.3	6	175.9	-55.9	2.5	-6.3	-0.9	-0.05	0.0	0.5	0.0	6.7	52.7
C-270 C	CNEL	106.3	6	171.2	-55.7	2.5	-6.6	-1.0		0.0	0.2	0.0	6.7	52.3
C-301 Compressor	CNEL	106.8	3	202.4	-57.1	2.5	-4.4	-1.1	-0.95	0.0	0.0	0.0	6.7	52.5
C-301 Motor	CNEL	106.8	4	198.8	-57.0	2.5	-0.7	-2.1	-0.95	0.0	0.0	0.0	6.7	55.4
C-351 Compressor	CNEL	106.8	4	200.7	-57.0	2.5	-2.9	-1.3	-0.55	0.0	0.0	0.0	6.7	54.1
C-351 Motor	CNEL	106.8	5	199.8	-57.0	2.5	-4.7	-2.1	-0.56	0.0	0.0	0.0	6.7	51.5
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.6	-49.9	0.6	-0.3	-0.3		0.0	0.2	-35.6	0.0	49.4
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.8	-56.6	2.1	-10.0	-0.8	-0.83	3.3	1.8	0.0	6.7	50.4
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	2.2	-3.4	-1.6	-1.02	0.0	0.6	0.0	6.7	47.4
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.3	-57.0	2.2	-17.2	-0.5	-0.73	-7.8	10.0	0.0	6.7	42.2
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.1	-56.7	2.0	-9.9	-0.9	-0.41	1.2	0.0	0.0	6.7	52.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	2.2	-10.2	-0.7	-0.77	0.9	0.4	0.0	6.7	45.6
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	2.1	-15.0	-0.5	-0.04	-6.9	0.2	0.0	6.7	29.8
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.7	-55.7	2.5	-9.2	-0.5		2.3	0.0	0.0	6.7	43.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.1	-55.8	2.4	-12.4	-0.5		-2.8	0.0	0.0	6.7	35.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.4	-55.7	2.4	-5.5	-0.9		-1.4	0.2	0.0	6.7	46.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.1	-55.7	2.4	-15.6	-0.4		-0.6	0.0	0.0	6.7	37.5
Cooling Tower M 512	CNEL	95.7		166.9	-55.4	2.6	-15.4	-0.6		0.0	1.1	0.0	6.7	34.5
Cooling Tower M 513	CNEL	95.7		167.0	-55.4	2.6	-14.1	-0.6		0.0	0.8	0.0	6.7	35.6
Cooling Tower M 514	CNEL	95.7		166.6	-55.4	2.6	-15.0	-0.6		0.0	1.0	0.0	6.7	34.9
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	204.5	-57.2	2.3	-1.9	-1.1		-3.5	1.0	0.0	6.7	41.9
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	236.6	-58.5	2.8	-7.0	-0.1		0.0	0.0	0.0	6.7	39.3
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	237.7	-58.5	2.7	-11.3	-0.1		0.0	0.0	0.0	6.7	32.6
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	235.9	-58.4	2.6	-6.3	-0.1		0.0	0.0	0.0	6.7	37.8
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	234.1	-58.4	2.7	-4.3	-0.1		0.0	0.0	0.0	6.7	39.8
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	235.2	-58.4	2.7	-7.2	-0.1		0.0	0.0	0.0	6.7	39.0
FD Motor	CNEL	103.3	2	237.3	-58.5	3.0	-9.0	-2.3		0.0	0.5	0.0	6.7	43.6
Feed Compressor -B Motor	CNEL	103.8	5	164.0	-55.3	2.7	-8.0	-1.3		0.0	0.0	0.0	6.7	48.6
Feed Compressor-A Compressor	CNEL	104.0	5	160.4	-55.1	2.6	-6.5	-0.9		0.0	1.0	0.0	6.7	51.8
Feed Compressor-A Motor	CNEL	103.8	6	156.0	-54.9	2.7	-5.9	-1.5		0.0	0.9	0.0	6.7	51.8
Feed Compressor-B Compressor	CNEL	104.0	7	168.6	-55.5	2.6	-7.1	-0.9		0.0	0.1	0.0	6.7	49.9
H2S Compressor 18-C-271	CNEL	105.3	6	214.8	-57.6	2.5	-2.7	-1.3	-0.78	0.0	1.4	0.0	6.7	53.5
Heater # 5-Heater	CNEL	91.1	13	206.6	-57.3	2.3	-7.5	-0.6		0.0	0.0	0.0	6.7	37.8
Heater # 5-Heater	CNEL	91.1	13	201.5	-57.1	2.1	-5.1	-0.8		0.0	0.0	0.0	6.7	39.9
Heater # 5-Heater	CNEL	91.1	13	211.5	-57.5	2.4	-8.7	-0.5		0.0	0.0	0.0	6.7	36.4
Hydro Heater H-402	CNEL	98.1		172.1	-55.7	2.4	-5.4	-0.5		0.0	0.7	0.0	6.7	46.3
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	236.1	-58.5	3.1	-8.6	-0.1		0.0	0.0	0.0	6.7	29.6
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	234.2	-58.4	3.0	-6.0	-0.1		0.0	0.0	0.0	6.7	32.6
ID Fan-ID Fan - North	CNEL	92.2	8	235.6	-58.4	3.0	-10.2	0.0		0.0	0.0	0.0	6.7	33.2
ID Fan-ID Fan - North 2	CNEL	91.4	7	236.4	-58.5	3.0	-8.4	-0.1		0.0	0.0	0.0	6.7	34.2
ID Fan-ID Fan - South	CNEL	92.3	9	233.0	-58.3	3.0	-3.9	-0.1		0.0	0.0	0.0	6.7	39.7
ID Fan-ID Fan - South 2	CNEL	91.4	7	235.2	-58.4	3.0	-4.0	-0.1		0.0	0.0	0.0	6.7	38.6
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	234.8	-58.4	2.7	-4.6	-0.1		0.0	0.0	0.0	6.7	40.3
Motor & Pump P 56A/B	CNEL	93.7		189.6	-56.5	2.5	-3.8	-1.3	-0.48	0.0	0.0	0.0	6.7	40.7
Motor & Pump P 120/121	CNEL	96.2	2	236.4	-58.5	3.2	-18.6	-0.7	-0.82	0.0	0.0	0.0	6.7	27.4
Motor & Pump P 211/212	CNEL	93.7		173.0	-55.8	2.4	-6.8	-1.1	-0.66	0.0	0.0	0.0	6.7	38.3
Motor & Pump P 215/214	CNEL	94.6		177.8	-56.0	2.4	-8.2	-1.0	-0.78	0.0	0.0	0.0	6.7	37.6
Motor & Pump P 216	CNEL	98.3		176.3	-55.9	2.3	-4.9	-1.4	-0.68	0.0	0.9	0.0	6.7	45.3
Motor & Pump P 217/218	CNEL	93.7		174.9	-55.8	2.6	-7.7	-1.1	-0.71	0.0	0.0	0.0	6.7	37.7
Motor & Pump P 300	CNEL	97.1	2	242.2	-58.7	3.3	-17.0	-0.8	-1.05	0.0	0.3	0.0	6.7	29.8
Motor & Pump P 301	CNEL	102.1	2	240.5	-58.6	3.3	-16.9	-0.8	-1.07	0.0	0.1	0.0	6.7	34.7
Motor & Pump P 302	CNEL	97.1	2	243.9	-58.7	3.3	-17.0	-0.8	-1.02	0.0	0.9	0.0	6.7	30.5
Motor & Pump P 303	CNEL	97.1	2	245.3	-58.8	3.2	-16.8	-0.8	-1.00	0.0	1.3	0.0	6.7	30.9
Motor & Pump P 305	CNEL	97.5	2	246.7	-58.8	3.3	-16.6	-0.8	-0.98	0.0	1.5	0.0	6.7	31.7
Motor & Pump P 306	CNEL	112.6	4	255.3	-59.1	3.2	-13.4	-0.7	-0.90	0.0	0.4	0.0	6.7	48.7
Motor & Pump P 307	CNEL	102.1	2	235.9	-58.4	3.2	-12.8	-0.8	-1.15	0.0	0.0	0.0	6.7	38.8
Motor & Pump P 309	CNEL	97.5	2	248.1	-58.9	3.3	-16.5	-0.8	-0.96	0.0	1.5	0.0	6.7	31.8
Motor & Pump P 312	CNEL	101.5	2	215.3	-57.7	3.1	-2.5	-1.0	-1.25	0.0	0.4	0.0	6.7	49.3
Motor & Pump P 313	CNEL	101.5	2	213.6	-57.6	3.1	-2.9	-1.0	-1.25	0.0	0.4	0.0	6.7	49.0
Motor & Pump P 315	CNEL	102.9	2	207.7	-57.3	2.9	-3.7	-1.0	-1.25	0.0	1.0	0.0	6.7	50.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 316	CNEL	102.9	2	205.9	-57.3	2.8	-3.9	-1.0	-1.26	0.0	1.4	0.0	6.7	50.4
Motor & Pump P 317	CNEL	102.9	2	204.0	-57.2	2.7	-4.0	-1.0	-1.26	0.0	1.6	0.0	6.7	50.5
Motor & Pump P 318	CNEL	100.2	1	209.4	-57.4	3.1	-3.5	-0.9	-1.25	0.0	0.6	0.0	6.7	47.4
Motor & Pump P 319	CNEL	100.2	1	210.7	-57.5	3.1	-3.3	-1.0	-1.25	0.0	0.5	0.0	6.7	47.5
Motor & Pump P 327	CNEL	111.2	3	263.1	-59.4	3.4	-21.4	-1.5	-0.12	0.0	2.9	0.0	6.7	41.8
Motor & Pump P 328	CNEL	109.9	5	249.8	-58.9	3.1	-15.2	-0.8	-0.92	0.0	0.3	0.0	6.7	44.3
Motor & Pump P 329	CNEL	110.2	5	252.5	-59.0	3.2	-15.1	-0.8	-0.86	0.0	0.6	0.0	6.7	44.8
Motor & Pump P 451	CNEL	93.7		165.1	-55.3	2.5	-9.6	-0.9		0.0	0.0	0.0	6.7	36.9
Motor & Pump P 453	CNEL	93.7		153.1	-54.7	2.5	-5.7	-1.0		0.0	0.0	0.0	6.7	41.5
Motor & Pump P 454	CNEL	93.7		166.0	-55.4	2.5	-12.4	-0.8		0.0	5.8	0.0	6.7	40.0
Motor & Pump P 457	CNEL	93.7		151.7	-54.6	2.5	-6.4	-0.9		0.0	0.0	0.0	6.7	40.9
Motor & Pump P 458	CNEL	93.7		164.8	-55.3	2.5	-6.7	-1.1		0.0	0.0	0.0	6.7	39.7
Motor & Pump P 459	CNEL	93.7		166.9	-55.4	2.5	-11.4	-0.8		0.0	5.2	0.0	6.7	40.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.2	-56.6	2.7	-12.8	-0.9		0.0	0.0	0.0	6.7	35.2
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.8	-56.7	2.7	-10.4	-1.0		0.0	0.0	0.0	6.7	37.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.8	-58.0	3.2	-17.5	-1.0	-0.85	0.0	0.0	0.0	6.7	27.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		225.0	-58.0	3.2	-17.4	-1.0	-0.87	0.0	0.0	0.0	6.7	28.0
Motor & Pump P 1601 A	CNEL	96.3	2	188.2	-56.5	2.6	-20.3	-1.0		0.0	0.0	0.0	6.7	27.7
Motor & Pump P 1601 B	CNEL	96.3	2	188.2	-56.5	2.6	-20.6	-1.0		0.0	0.2	0.0	6.7	27.6
Motor & Pump P 1602 A	CNEL	96.3	2	188.0	-56.5	2.6	-20.8	-1.0		0.0	0.2	0.0	6.7	27.5
Motor & Pump P 1602 B	CNEL	96.5	2	188.0	-56.5	2.6	-20.8	-1.0		0.0	2.4	0.0	6.7	29.9
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.5	-56.5	2.8	-18.5	-0.9	-0.08	0.0	0.0	0.0	6.7	30.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.3	-56.8	2.8	-17.2	-0.9	-0.19	0.0	0.0	0.0	6.7	31.0
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.7	-56.9	2.8	-16.7	-0.9	-0.24	0.0	0.0	0.0	6.7	31.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.2	-56.7	2.7	-11.9	-0.8		0.0	0.0	0.0	6.7	36.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	195.0	-56.8	2.8	-12.1	-0.8		0.0	0.0	0.0	6.7	36.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.2	-57.1	2.9	-12.0	-0.9	-0.29	0.0	0.0	0.0	6.7	35.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.4	-57.1	2.9	-17.9	-0.8	-0.35	0.0	0.0	0.0	6.7	29.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.7	-57.1	2.9	-15.7	-0.9	-0.35	0.0	0.0	0.0	6.7	31.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.5	-57.1	2.9	-17.8	-0.9	-0.35	0.0	0.0	0.0	6.7	29.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	243.6	-58.7	2.9	-4.7	-1.7		0.0	0.0	0.0	6.7	48.6
P-2 A/B	CNEL	98.5		293.2	-60.3	3.8	-9.6	-1.0	-1.51	0.0	4.4	0.0	6.7	40.9
P-50 A/B	CNEL	98.1		257.9	-59.2	3.7	-21.4	-0.9	-0.21	0.0	0.0	0.0	6.7	26.6
P-51 A/B	CNEL	98.1		257.3	-59.2	3.6	-12.8	-0.9	-0.21	0.0	0.0	0.0	6.7	35.3
P-060 A/B	CNEL	98.1		259.3	-59.3	3.7	-21.9	-1.0	-1.54	0.0	0.6	0.0	6.7	25.4
P-63	CNEL	98.5		261.9	-59.4	3.6	-9.9	-0.8	-1.54	0.0	0.5	0.0	6.7	37.6
P-70 A/B	CNEL	98.1		258.6	-59.2	3.7	-20.9	-0.9	-1.46	0.0	2.4	0.0	6.7	28.4
P-73 A/B	CNEL	98.5		288.7	-60.2	3.8	-9.9	-0.9	-1.51	0.0	0.1	0.0	6.7	36.5
P-251 A/B	CNEL	98.2		131.3	-53.4	2.5	-0.1	-0.7	-0.21	0.0	0.6	0.0	6.7	53.6
P-252 A/B	CNEL	98.2		139.4	-53.9	2.6	-0.1	-0.8	-0.44	0.0	0.0	0.0	6.7	52.3
P-253	CNEL	98.2		146.4	-54.3	2.6	-0.1	-0.8	-0.50	0.0	0.0	0.0	6.7	51.8
P-254 A/B	CNEL	98.2		142.0	-54.0	2.5	-0.1	-0.8	-0.48	0.0	0.0	0.0	6.7	52.1
P-255 A/B	CNEL	98.2		138.8	-53.8	2.5	-0.1	-0.8	-0.40	0.0	0.7	0.0	6.7	53.0
P-255 A/B	CNEL	98.2		124.6	-52.9	2.5	-0.1	-0.7	-0.04	0.0	0.8	0.0	6.7	54.4
P-256 A/B	CNEL	98.2		134.5	-53.6	2.5	-0.1	-0.7	-0.29	0.0	0.7	0.0	6.7	53.4
P-259 A/B	CNEL	98.2		128.0	-53.1	2.5	-0.1	-0.7	-0.13	0.0	0.6	0.0	6.7	53.9
P-260	CNEL	99.1		122.2	-52.7	2.5	-0.1	-0.7	-0.38	0.0	1.3	0.0	6.7	55.6
P-261 A/B	CNEL	98.0		102.4	-51.2	2.4	-0.1	-0.6	-0.13	0.0	0.0	0.0	6.7	55.1
P-262 A/B	CNEL	99.1		114.9	-52.2	2.5	-0.1	-0.7	-0.36	0.0	0.0	0.0	6.7	54.9
P-263 A/B	CNEL	99.4		118.5	-52.5	2.5	-0.1	-0.7	-0.38	0.0	0.0	0.0	6.7	55.0
P-270 A/B	CNEL	98.5		183.7	-56.3	3.1	0.0	-1.0	-0.70	0.0	0.0	0.0	6.7	50.3
P-271 A/B	CNEL	98.2		151.4	-54.6	2.6	-0.1	-0.8	-0.70	0.0	0.0	0.0	6.7	51.3
P-272 A/B	CNEL	98.2		146.8	-54.3	2.5	-0.1	-0.8	-0.59	0.0	0.0	0.0	6.7	51.7
P-273 A/B	CNEL	98.5		180.2	-56.1	3.0	0.0	-0.9	-0.68	0.0	0.0	0.0	6.7	50.4
P-275 A/B/C	CNEL	98.2		157.1	-54.9	2.7	0.0	-0.8	-0.77	0.0	0.1	0.0	6.7	51.1
P-305	CNEL	99.3		188.2	-56.5	2.9	-17.9	-0.6	-0.10	0.0	0.6	0.0	6.7	34.4
P-306	CNEL	100.8		198.1	-56.9	3.0	-18.6	-0.6	-0.33	0.0	0.6	0.0	6.7	34.7
P-309	CNEL	99.3		190.6	-56.6	2.9	-17.6	-0.6	-0.16	0.0	0.5	0.0	6.7	34.5
P-328	CNEL	100.8		204.0	-57.2	3.1	-13.9	-0.6	-0.47	0.0	0.3	0.0	6.7	38.7
P-329	CNEL	100.8		201.1	-57.1	3.0	-18.2	-0.6	-0.40	0.0	0.6	0.0	6.7	35.0
P-353	CNEL	98.5		190.9	-56.6	2.5	0.0	-1.0	-0.14	0.0	0.0	0.0	6.7	49.9
P-358 A/B	CNEL	99.4		213.8	-57.6	3.3	-7.7	-0.8	-0.93	0.0	0.0	0.0	6.7	42.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-359 A/B	CNEL	99.4		213.1	-57.6	3.3	0.0	-1.1	-0.59	0.0	0.2	0.0	6.7	50.3
P-360 A/B	CNEL	99.4		211.9	-57.5	3.3	-0.1	-1.1	-0.58	0.0	0.0	0.0	6.7	50.1
P-361A	CNEL	98.1		262.9	-59.4	3.4	0.0	-1.3	-1.69	0.0	0.0	0.0	6.7	45.8
P-371 A/B	CNEL	98.0		146.9	-54.3	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.1
P-373 A/B	CNEL	98.0		151.4	-54.6	2.6	0.0	-0.8		0.0	1.3	0.0	6.7	53.2
P-374 A/B	CNEL	98.0		150.6	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	51.9
P-375 A/B	CNEL	98.0		149.1	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.0
P-376	CNEL	98.0		150.0	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.0
P-376 A/B	CNEL	98.0		152.6	-54.7	2.6	0.0	-0.8		0.0	1.3	0.0	6.7	53.1
P-377	CNEL	98.0		149.7	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.0
P-1101 A	CNEL	98.9		285.3	-60.1	3.5	-2.4	-1.1	-1.47	0.0	0.0	0.0	6.7	43.9
P-1103	CNEL	98.9		283.9	-60.1	3.5	-2.6	-1.1	-1.48	0.0	0.0	0.0	6.7	43.9
P-1105 A/B/C	CNEL	98.9		290.9	-60.3	3.5	-2.1	-1.2	-1.47	0.0	0.3	0.0	6.7	44.4
P-1800	CNEL	98.9		315.6	-61.0	3.8	-12.9	-1.0		0.0	6.2	0.0	6.7	40.6
P-1801	CNEL	98.9		365.0	-62.2	4.0	-6.5	-1.4	-1.16	0.0	0.0	0.0	6.7	38.3
P-1802	CNEL	98.9		364.8	-62.2	4.0	-9.2	-1.3	-1.51	0.0	0.0	0.0	6.7	35.5
P-1803	CNEL	99.1		276.4	-59.8	3.9	-4.9	-1.3	-1.83	0.0	3.0	0.0	6.7	44.8
P-1804	CNEL	99.1		285.5	-60.1	3.9	-3.0	-1.1	-1.80	0.0	0.0	0.0	6.7	43.7
P-1805	CNEL	99.1		288.7	-60.2	3.9	-3.0	-1.2	-1.80	0.0	0.0	0.0	6.7	43.5
P-1806	CNEL	99.1		253.1	-59.1	3.7	-2.8	-1.1	-1.42	0.0	0.0	0.0	6.7	45.1
P-1809 A	CNEL	98.9		327.5	-61.3	3.9	-12.4	-1.1	-1.49	0.0	4.1	0.0	6.7	37.3
P-1810 A/B/C	CNEL	99.0		293.7	-60.3	3.9	-4.7	-1.4	-1.79	0.0	1.8	0.0	6.7	43.1
P-1811 A/B	CNEL	99.1		259.7	-59.3	3.8	-3.2	-1.1	-1.46	0.0	0.0	0.0	6.7	44.5
P-1811 A/B	CNEL	99.1		292.5	-60.3	3.9	-5.1	-1.3	-1.78	0.0	0.3	0.0	6.7	41.5
P-1847 A/B	CNEL	99.4		294.1	-60.4	4.0	0.0	-1.4	-0.84	0.0	1.8	0.0	6.7	49.3
P-1849 A/B	CNEL	99.4		300.0	-60.5	4.1	0.0	-1.5	-0.86	0.0	1.9	0.0	6.7	49.2
P-1853	CNEL	99.1		142.2	-54.0	2.4	-0.1	-0.8		0.0	0.0	0.0	6.7	53.2
Piping Furnace Tanks	CNEL	87.1	72	201.2	-57.1	2.5	-0.1	-6.7		0.0	1.1	0.0	6.7	33.5
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	179.8	-56.1	2.4	-0.3	-6.3		0.0	0.0	0.0	6.7	44.9
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	197.0	-56.9	2.6	-12.7	-1.5		0.0	0.4	0.0	6.7	53.1
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	196.3	-56.8	2.6	-15.9	-4.4		0.0	0.8	0.0	6.7	48.1
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	370.0	-62.4	3.0	-21.9	-1.3		0.0	0.4	0.0	6.7	35.1
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	354.7	-62.0	2.9	-15.9	-1.2		0.0	5.3	0.0	6.7	47.0
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	326.4	-61.3	2.8	-11.4	-1.1		0.0	0.3	0.0	6.7	40.1
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	340.8	-61.6	2.8	-7.5	-1.4		0.0	0.2	0.0	6.7	50.3
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	319.9	-61.1	2.6	-0.2	-1.5		0.0	0.1	0.0	6.7	50.5
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	332.4	-61.4	2.8	-7.8	-1.3	-0.02	0.0	0.0	0.0	6.7	42.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	318.9	-61.1	2.7	0.0	-1.5	-0.50	0.0	0.0	0.0	6.7	53.0
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	321.7	-61.1	2.8	-8.2	-1.3		0.0	2.9	0.0	6.7	47.9
Pre-Treat Train-Roof 01	CNEL	113.1	2037	345.5	-61.8	2.4	-4.9	-1.6		0.0	0.2	0.0	6.7	54.0
PSA Pipe 3" Lagging	CNEL	80.6	11	201.9	-57.1	2.4	-11.0	-1.4		0.0	0.0	0.0	6.7	20.1
PSA Skid Additional Piping w NC	CNEL	116.6	57	196.1	-56.8	2.6	-14.0	-1.5		0.0	0.3	0.0	6.7	53.8
Reformer-Burner Reformer East	CNEL	97.3	269	222.8	-57.9	2.4	-19.4	-1.0		0.0	9.5	0.0	6.7	40.5
Reformer-Burner Reformer North	CNEL	95.9	192	212.2	-57.5	2.5	-0.6	-1.7		0.0	0.0	0.0	6.7	45.1
Reformer-Burner Reformer South	CNEL	95.8	191	221.6	-57.9	2.4	-14.8	-0.9		0.0	1.4	0.0	6.7	35.8
Reformer-Burner Reformer West	CNEL	97.3	268	210.9	-57.5	2.4	-0.7	-1.8		0.0	0.0	0.0	6.7	49.5
RFG A from battery to process	CNEL	99.4	87	183.3	-56.3	2.4	-0.3	-6.3		0.0	0.0	0.0	6.7	45.6
RFG A from battery to process w NC	CNEL	115.2	42	199.0	-57.0	2.6	-14.6	-4.7		0.0	1.1	0.0	6.7	49.3
Stack Noise	CNEL	108.4		239.3	-58.6	2.3	-0.7	-1.8		-7.3	0.0	0.0	6.7	49.0
Steam Turbine-Facade 01	CNEL	99.6	29	177.2	-56.0	2.6	0.0	-4.1		0.0	0.0	0.0	6.7	48.8
Steam Turbine-Facade 02	CNEL	96.2	13	180.0	-56.1	2.6	-10.1	-2.4		0.0	0.4	0.0	6.7	37.4
Steam Turbine-Facade 03	CNEL	99.6	29	180.8	-56.1	2.6	-16.4	-2.4		0.0	11.3	0.0	6.7	45.4
Steam Turbine-Facade 04	CNEL	96.2	13	178.1	-56.0	2.6	0.0	-4.2		0.0	2.6	0.0	6.7	48.0
Steam Turbine-Roof 01	CNEL	99.7	30	179.1	-56.1	2.6	-4.7	-4.2		0.0	2.6	0.0	6.7	46.7
Tank Farm Pump 1	CNEL	99.0	3	294.4	-60.4	3.8	0.0	-2.2	-0.70	0.0	0.0	0.0	6.7	46.2
Tank Farm Pump 2	CNEL	99.0	3	312.7	-60.9	3.9	0.0	-2.3	-0.75	0.0	0.0	0.0	6.7	45.6
Tank Farm Pump 3	CNEL	99.0	3	317.8	-61.0	3.9	0.0	-2.3	-0.76	0.0	0.0	0.0	6.7	45.5
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	132.0	-53.4	1.2	-0.1	-1.8		0.0	0.1	-13.8	0.0	44.6
XF-1502 Splitter Area 1	CNEL	104.5		198.0	-56.9	2.2	-4.6	-1.4	-0.25	-4.3	0.0	0.0	6.7	45.9
XF-1502 Splitter Area 2	CNEL	104.5		194.3	-56.8	2.2	-4.5	-1.4	-0.18	-4.3	0.0	0.0	6.7	46.2
XF-1504 Splitter Area 1	CNEL	104.5		197.6	-56.9	2.2	-3.6	-1.2	-0.25	-4.1	0.0	0.0	6.7	47.3
XF-1504 Splitter Area 2	CNEL	104.5		193.9	-56.7	2.2	-3.5	-1.2	-0.18	-4.1	0.0	0.0	6.7	47.7
XF 251, 250, 271, 270	CNEL	101.1	128	153.4	-54.7	2.0	0.0	-0.7		-3.1	0.0	0.0	6.7	51.3
XF 260, 261A, 261 B	CNEL	99.9	97	107.0	-51.6	1.8	0.0	-0.5	-0.03	-3.1	0.0	0.0	6.7	53.1
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	1.9	-0.9	-0.9	-1.35	-3.2	0.1	0.0	6.7	54.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 313, XF 314	CNEL	113.0	18	270.4	-59.6	2.3	-3.2	-0.9	-0.88	-3.6	0.0	0.0	6.7	53.7	
XF 335-1, XF 335-2	CNEL	113.4	54	253.0	-59.1	2.0	-4.4	-1.1	-0.56	-3.0	0.6	0.0	6.7	54.5	
XF 353A/B	CNEL	95.4	35	219.5	-57.8	1.9	0.0	-0.9	-0.05	-3.1	0.0	0.0	6.7	42.2	
XF 353A/B	CNEL	95.4	35	211.1	-57.5	2.0	0.0	-0.8	0.00	-3.1	0.0	0.0	6.7	42.7	
XF 354A/B	CNEL	95.4	35	188.3	-56.5	1.7	-3.9	-0.5	0.00	-2.7	0.0	0.0	6.7	40.1	
XF 503	CNEL	113.0	21	187.6	-56.5	1.9	-0.1	-2.6	-1.11	-4.1	0.0	0.0	6.7	57.4	
XF - 1601	CNEL	96.6		187.1	-56.4	2.2	-1.3	-0.8		-3.4	0.0	0.0	6.7	43.5	
XF - 1602	CNEL	96.6		187.2	-56.4	2.2	-1.2	-0.8		-3.4	0.0	0.0	6.7	43.7	
XF Module 1510	CNEL	108.3		191.2	-56.6	2.2	-4.1	-1.2	-0.10	-4.0	0.0	0.0	6.7	51.1	
XF Module 1519	CNEL	109.0		196.5	-56.9	2.2	-3.9	-1.3	-0.21	-4.0	0.0	0.0	6.7	51.6	
xxxx xxxx xxxx xxxx	CNEL		606								1.4			26.9	
xxxx xxxx xxxx xxxx	CNEL		606								1.2			26.7	
xxxx xxxx xxxx xxxx	CNEL		917								1.9			41.0	
xxxx xxxx xxxx xxxx	CNEL		917								1.2			40.4	
xxxx xxxx xxxx xxxx	CNEL		608								0.9			34.2	
xxxx xxxx xxxx xxxx	CNEL		608								0.9			34.1	
xxxx xxxx xxxx xxxx	CNEL		228								1.9			32.0	
xxxx xxxx xxxx xxxx	CNEL		520								1.8			34.6	
xxxx xxxx xxxx xxxx	CNEL		1341								1.4			47.8	
xxxx xxxx xxxx xxxx	CNEL		450								3.3			32.1	
Receiver SS-4 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.7 dB(A)			Ld 7-19 dB(A)		Leq,N 66.0 dB(A)		Le 19-22 dB(A)		CNEL 72.8 dB(A)		Lmax day hr dB(A)		Ld 7-'
ID Fan Motor	CNEL	104.4	2	237.0	-58.5	2.8	-17.3	-1.3		0.0	0.7	0.0	6.7	37.5	
18-1855 A/B	CNEL	98.8		170.8	-55.6	2.7	0.0	-0.9	-0.58	0.0	0.6	0.0	6.7	51.6	
18-1856 A/B	CNEL	98.8		176.3	-55.9	2.7	0.0	-0.9	-0.66	0.0	0.3	0.0	6.7	51.0	
18-1857 A/B	CNEL	98.8		165.6	-55.4	2.7	0.0	-0.9	-0.45	0.0	0.3	0.0	6.7	51.8	
18-1858 A/B	CNEL	98.8		161.9	-55.2	2.7	0.0	-0.9	-0.37	0.0	0.1	0.0	6.7	51.8	
18-PK 1802 Air Compressor Package	CNEL	103.1		175.4	-55.9	2.7	0.0	-0.6	-0.82	0.0	0.0	0.0	6.7	55.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	80.1	-49.1	1.3	-0.1	-1.7		0.0	0.1	-4.8	1.0	55.8	
Air Compressor C 1	CNEL	110.0	5	248.9	-58.9	2.7	-5.5	-0.9	-0.64	0.0	1.0	0.0	6.7	54.5	
Air Compressor Pump	CNEL	100.3		112.4	-52.0	2.5	-18.5	-1.5		0.0	9.6	0.0	6.7	47.1	
Blower F 401	CNEL	113.0		139.8	-53.9	2.3	-12.6	-0.2		0.0	0.0	0.0	6.7	55.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	208.8	-57.4	2.4	0.0	-0.9		0.0	0.0	0.0	6.7	49.3	
Boiler Feed Water Pump A	CNEL	97.1	3	191.8	-56.6	2.7	0.0	-1.2	-0.22	0.0	0.0	0.0	6.7	48.5	
Boiler Feed Water Pump B	CNEL	97.1	3	189.6	-56.5	2.7	-0.4	-1.1	-0.28	0.0	0.0	0.0	6.7	48.1	
C370 A Motor	CNEL	103.6	3	152.2	-54.6	2.7	-5.7	-1.0		0.0	1.1	0.0	6.7	52.7	
C370 B Motor	CNEL	108.6	3	156.3	-54.9	2.7	-6.2	-0.9		0.0	2.9	0.0	6.7	58.8	
C370A	CNEL	103.8	5	156.4	-54.9	2.7	-5.0	-1.1		0.0	1.1	0.0	6.7	53.3	
C370B	CNEL	103.8	5	160.4	-55.1	2.7	-5.1	-1.1		0.0	2.2	0.0	6.7	54.0	
C-270 A	CNEL	106.3	6	180.9	-56.1	2.6	-4.9	-1.1	-0.15	0.0	0.7	0.0	6.7	54.0	
C-270 B	CNEL	106.3	6	176.0	-55.9	2.6	-5.8	-1.0	-0.05	0.0	0.4	0.0	6.7	53.3	
C-270 C	CNEL	106.3	6	171.3	-55.7	2.5	-6.4	-1.0		0.0	0.2	0.0	6.7	52.6	
C-301 Compressor	CNEL	106.8	3	202.4	-57.1	2.6	-4.0	-1.1	-0.95	0.0	0.0	0.0	6.7	52.9	
C-301 Motor	CNEL	106.8	4	198.8	-57.0	2.7	-0.6	-2.1	-0.95	0.0	0.0	0.0	6.7	55.5	
C-351 Compressor	CNEL	106.8	4	200.8	-57.0	2.6	-2.9	-1.3	-0.55	0.0	0.0	0.0	6.7	54.3	
C-351 Motor	CNEL	106.8	5	199.8	-57.0	2.6	-4.4	-2.3	-0.56	0.0	0.0	0.0	6.7	51.8	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	88.9	-50.0	0.7	-0.2	-0.3		0.0	0.2	-35.6	0.0	49.6	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	189.8	-56.6	2.3	-9.3	-0.8	-0.83	3.3	2.2	0.0	6.7	51.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	192.5	-56.7	2.4	-2.6	-1.6	-1.02	0.0	0.7	0.0	6.7	48.5	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	200.4	-57.0	2.4	-15.3	-0.5	-0.69	-7.8	9.8	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	192.2	-56.7	2.2	-9.9	-0.9	-0.41	1.2	0.0	0.0	6.7	52.9	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	191.1	-56.6	2.4	-9.8	-0.7	-0.69	0.9	0.4	0.0	6.7	46.4	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	201.6	-57.1	2.3	-13.7	-0.6	-0.04	-6.9	0.1	0.0	6.7	31.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	172.8	-55.7	2.6	-8.6	-0.5		2.3	0.0	0.0	6.7	44.5	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	174.1	-55.8	2.5	-11.4	-0.5		-2.8	0.0	0.0	6.7	36.5	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	171.5	-55.7	2.5	-5.4	-0.9		-1.4	0.0	0.0	6.7	46.4	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	171.2	-55.7	2.5	-15.3	-0.4		-0.6	0.0	0.0	6.7	37.9	
Cooling Tower M 512	CNEL	95.7		167.0	-55.4	2.6	-12.5	-0.6		0.0	1.5	0.0	6.7	37.9	
Cooling Tower M 513	CNEL	95.7		167.1	-55.5	2.6	-12.7	-0.6		0.0	1.6	0.0	6.7	37.8	
Cooling Tower M 514	CNEL	95.7		166.7	-55.4	2.6	-9.9	-0.7		0.0	0.9	0.0	6.7	39.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	204.5	-57.2	2.4	-0.6	-0.9		-3.5	1.1	0.0	6.7	43.8	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	236.6	-58.5	2.8	-4.3	-0.1		0.0	0.0	0.0	6.7	42.0	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	237.8	-58.5	2.8	-11.3	-0.1		0.0	0.0	0.0	6.7	32.7	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	235.9	-58.4	2.8	-6.4	-0.1		0.0	0.0	0.0	6.7	38.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	234.1	-58.4	2.8	-4.1	-0.2		0.0	0.0	0.0	6.7	40.0
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	235.2	-58.4	2.8	-5.6	-0.1		0.0	0.0	0.0	6.7	40.7
FD Motor	CNEL	103.3	2	237.3	-58.5	2.8	-5.6	-2.5		0.0	0.3	0.0	6.7	46.3
Feed Compressor -B Motor	CNEL	103.8	5	164.0	-55.3	2.7	-5.7	-1.6		0.0	0.0	0.0	6.7	50.6
Feed Compressor-A Compressor	CNEL	104.0	5	160.5	-55.1	2.7	-5.8	-1.0		0.0	1.5	0.0	6.7	52.9
Feed Compressor-A Motor	CNEL	103.8	6	156.1	-54.9	2.7	-5.4	-1.6		0.0	1.6	0.0	6.7	52.9
Feed Compressor-B Compressor	CNEL	104.0	7	168.7	-55.5	2.7	-5.1	-1.1		0.0	0.1	0.0	6.7	51.7
H2S Compressor 18-C-271	CNEL	105.3	6	214.9	-57.6	2.6	-2.6	-1.3	-0.78	0.0	1.3	0.0	6.7	53.6
Heater # 5-Heater	CNEL	91.1	13	206.7	-57.3	2.4	-7.4	-0.5		0.0	0.0	0.0	6.7	38.0
Heater # 5-Heater	CNEL	91.1	13	201.6	-57.1	2.4	-5.1	-0.8		0.0	0.0	0.0	6.7	40.2
Heater # 5-Heater	CNEL	91.1	13	211.6	-57.5	2.4	-8.6	-0.5		0.0	0.0	0.0	6.7	36.6
Hydro Heater H-402	CNEL	98.1		172.2	-55.7	2.6	-5.3	-0.5		0.0	0.7	0.0	6.7	46.5
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	236.1	-58.5	2.9	-8.1	-0.1		0.0	0.0	0.0	6.7	29.9
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	234.3	-58.4	2.9	-3.9	-0.1		0.0	0.0	0.0	6.7	34.5
ID Fan-ID Fan - North	CNEL	92.2	8	235.7	-58.4	2.9	-9.4	-0.1		0.0	0.0	0.0	6.7	33.9
ID Fan-ID Fan - North 2	CNEL	91.4	7	236.5	-58.5	2.9	-8.0	-0.1		0.0	0.2	0.0	6.7	34.6
ID Fan-ID Fan - South	CNEL	92.3	9	233.1	-58.3	2.9	-4.7	-0.1		0.0	0.0	0.0	6.7	38.7
ID Fan-ID Fan - South 2	CNEL	91.4	7	235.3	-58.4	2.9	-4.5	-0.1		0.0	0.0	0.0	6.7	37.9
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	234.8	-58.4	2.9	-4.6	-0.1		0.0	0.0	0.0	6.7	40.4
Motor & Pump P 56A/B	CNEL	93.7		189.7	-56.6	2.6	-3.1	-1.5	-0.48	0.0	0.0	0.0	6.7	41.3
Motor & Pump P 120/121	CNEL	96.2	2	236.4	-58.5	2.7	-16.7	-0.9	-0.81	0.0	0.0	0.0	6.7	28.7
Motor & Pump P 211/212	CNEL	93.7		173.1	-55.8	2.5	-5.7	-1.3	-0.65	0.0	0.0	0.0	6.7	39.4
Motor & Pump P 215/214	CNEL	94.6		177.9	-56.0	2.5	-7.4	-1.1	-0.78	0.0	0.0	0.0	6.7	38.6
Motor & Pump P 216	CNEL	98.3		176.4	-55.9	2.4	-4.8	-1.4	-0.68	0.0	1.1	0.0	6.7	45.8
Motor & Pump P 217/218	CNEL	93.7		175.0	-55.9	2.5	-6.5	-1.2	-0.70	0.0	0.0	0.0	6.7	38.6
Motor & Pump P 300	CNEL	97.1	2	242.2	-58.7	2.7	-16.9	-0.8	-1.05	0.0	0.2	0.0	6.7	29.2
Motor & Pump P 301	CNEL	102.1	2	240.6	-58.6	2.7	-16.9	-0.8	-1.07	0.0	0.0	0.0	6.7	34.1
Motor & Pump P 302	CNEL	97.1	2	243.9	-58.7	2.7	-16.9	-0.8	-1.02	0.0	1.2	0.0	6.7	30.3
Motor & Pump P 303	CNEL	97.1	2	245.4	-58.8	2.7	-16.6	-0.8	-1.00	0.0	1.8	0.0	6.7	31.1
Motor & Pump P 305	CNEL	97.5	2	246.8	-58.8	2.7	-16.4	-0.8	-0.98	0.0	2.0	0.0	6.7	31.8
Motor & Pump P 306	CNEL	112.6	4	255.4	-59.1	2.7	-12.4	-0.7	-0.91	0.0	0.3	0.0	6.7	49.1
Motor & Pump P 307	CNEL	102.1	2	236.0	-58.5	2.7	-12.4	-0.8	-1.15	0.0	0.0	0.0	6.7	38.7
Motor & Pump P 309	CNEL	97.5	2	248.2	-58.9	2.7	-15.7	-0.8	-0.95	0.0	1.6	0.0	6.7	32.1
Motor & Pump P 312	CNEL	101.5	2	215.4	-57.7	2.6	-2.5	-1.0	-1.25	0.0	0.8	0.0	6.7	49.2
Motor & Pump P 313	CNEL	101.5	2	213.7	-57.6	2.6	-2.8	-1.0	-1.25	0.0	0.8	0.0	6.7	48.9
Motor & Pump P 315	CNEL	102.9	2	207.8	-57.3	2.6	-3.6	-1.0	-1.25	0.0	1.1	0.0	6.7	50.1
Motor & Pump P 316	CNEL	102.9	2	205.9	-57.3	2.6	-3.8	-1.0	-1.26	0.0	1.3	0.0	6.7	50.2
Motor & Pump P 317	CNEL	102.9	2	204.1	-57.2	2.6	-3.9	-1.0	-1.26	0.0	1.4	0.0	6.7	50.3
Motor & Pump P 318	CNEL	100.2	1	209.5	-57.4	2.6	-3.3	-1.0	-1.25	0.0	0.8	0.0	6.7	47.4
Motor & Pump P 319	CNEL	100.2	1	210.8	-57.5	2.6	-3.1	-1.0	-1.25	0.0	0.8	0.0	6.7	47.5
Motor & Pump P 327	CNEL	111.2	3	263.2	-59.4	2.7	-21.4	-1.5	-0.13	0.0	3.1	0.0	6.7	41.3
Motor & Pump P 328	CNEL	109.9	5	249.8	-58.9	2.7	-14.2	-0.8	-0.91	0.0	0.4	0.0	6.7	44.9
Motor & Pump P 329	CNEL	110.2	5	252.6	-59.0	2.7	-13.9	-0.8	-0.86	0.0	0.8	0.0	6.7	45.6
Motor & Pump P 451	CNEL	93.7		165.2	-55.4	2.5	-9.4	-1.0		0.0	0.0	0.0	6.7	37.1
Motor & Pump P 453	CNEL	93.7		153.3	-54.7	2.5	-5.2	-1.0		0.0	0.0	0.0	6.7	42.0
Motor & Pump P 454	CNEL	93.7		166.1	-55.4	2.5	-12.0	-0.8		0.0	5.3	0.0	6.7	40.0
Motor & Pump P 457	CNEL	93.7		151.8	-54.6	2.5	-5.9	-0.9		0.0	0.0	0.0	6.7	41.4
Motor & Pump P 458	CNEL	93.7		164.9	-55.3	2.5	-6.7	-1.1		0.0	0.0	0.0	6.7	39.7
Motor & Pump P 459	CNEL	93.7		167.0	-55.4	2.5	-11.0	-0.8		0.0	4.7	0.0	6.7	40.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		190.3	-56.6	2.6	-9.7	-0.9		0.0	0.0	0.0	6.7	38.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		191.9	-56.7	2.6	-6.5	-1.1		0.0	0.0	0.0	6.7	41.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		223.9	-58.0	2.7	-17.0	-0.9	-0.85	0.0	0.0	0.0	6.7	28.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		225.1	-58.0	2.7	-16.7	-0.9	-0.87	0.0	0.0	0.0	6.7	28.2
Motor & Pump P 1601 A	CNEL	96.3	2	188.3	-56.5	2.7	-20.1	-1.0		0.0	0.0	0.0	6.7	28.1
Motor & Pump P 1601 B	CNEL	96.3	2	188.3	-56.5	2.7	-20.4	-1.0		0.0	0.2	0.0	6.7	28.0
Motor & Pump P 1602 A	CNEL	96.3	2	188.1	-56.5	2.7	-20.6	-1.0		0.0	0.2	0.0	6.7	27.9
Motor & Pump P 1602 B	CNEL	96.5	2	188.1	-56.5	2.7	-20.6	-1.0		0.0	1.5	0.0	6.7	29.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	189.6	-56.5	2.7	-16.8	-0.9	-0.08	0.0	0.0	0.0	6.7	31.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.4	-56.8	2.7	-15.3	-0.9	-0.19	0.0	0.0	0.0	6.7	32.8
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	196.8	-56.9	2.7	-14.7	-0.9	-0.24	0.0	0.0	0.0	6.7	33.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	193.3	-56.7	2.6	-5.6	-1.3		0.0	0.0	0.0	6.7	42.4
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	195.1	-56.8	2.7	-5.7	-1.3		0.0	0.0	0.0	6.7	42.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	201.3	-57.1	2.7	-9.4	-1.0	-0.28	0.0	0.0	0.0	6.7	37.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	201.5	-57.1	2.7	-17.0	-0.8	-0.35	0.0	0.0	0.0	6.7	30.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	201.8	-57.1	2.7	-13.3	-0.9	-0.35	0.0	0.0	0.0	6.7	34.0
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	201.6	-57.1	2.7	-16.9	-0.9	-0.35	0.0	0.0	0.0	6.7	30.5
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	243.6	-58.7	2.7	-1.3	-2.1		0.0	0.0	0.0	6.7	51.4
P-2 A/B	CNEL	98.5		293.3	-60.3	3.2	-7.6	-1.1	-1.49	0.0	3.8	0.0	6.7	41.6
P-50 A/B	CNEL	98.1		257.9	-59.2	2.9	-21.4	-0.9	-0.21	0.0	0.0	0.0	6.7	25.9
P-51 A/B	CNEL	98.1		257.4	-59.2	2.9	-12.8	-0.9	-0.21	0.0	0.0	0.0	6.7	34.6
P-060 A/B	CNEL	98.1		259.3	-59.3	2.9	-18.6	-1.1	-1.52	0.0	0.4	0.0	6.7	27.5
P-63	CNEL	98.5		262.0	-59.4	2.9	-8.7	-0.8	-1.53	0.0	0.3	0.0	6.7	38.0
P-70 A/B	CNEL	98.1		258.6	-59.2	2.9	-18.1	-1.1	-1.45	0.0	1.6	0.0	6.7	29.5
P-73 A/B	CNEL	98.5		288.8	-60.2	3.1	-7.9	-1.0	-1.49	0.0	0.1	0.0	6.7	37.9
P-251 A/B	CNEL	98.2		131.4	-53.4	2.5	0.0	-0.7	-0.21	0.0	0.6	0.0	6.7	53.7
P-252 A/B	CNEL	98.2		139.5	-53.9	2.6	0.0	-0.8	-0.44	0.0	0.0	0.0	6.7	52.4
P-253	CNEL	98.2		146.5	-54.3	2.6	0.0	-0.8	-0.50	0.0	0.0	0.0	6.7	51.9
P-254 A/B	CNEL	98.2		142.2	-54.0	2.5	0.0	-0.8	-0.48	0.0	0.0	0.0	6.7	52.2
P-255 A/B	CNEL	98.2		138.9	-53.8	2.5	0.0	-0.7	-0.40	0.0	0.6	0.0	6.7	53.0
P-255 A/B	CNEL	98.2		124.8	-52.9	2.5	0.0	-0.7	-0.04	0.0	0.8	0.0	6.7	54.5
P-256 A/B	CNEL	98.2		134.7	-53.6	2.5	0.0	-0.7	-0.29	0.0	0.6	0.0	6.7	53.4
P-259 A/B	CNEL	98.2		128.2	-53.2	2.5	0.0	-0.7	-0.13	0.0	0.6	0.0	6.7	54.0
P-260	CNEL	99.1		122.4	-52.7	2.5	0.0	-0.7	-0.39	0.0	1.2	0.0	6.7	55.7
P-261 A/B	CNEL	98.0		102.6	-51.2	2.5	0.0	-0.6	-0.14	0.0	0.0	0.0	6.7	55.2
P-262 A/B	CNEL	99.1		115.1	-52.2	2.5	0.0	-0.6	-0.36	0.0	0.0	0.0	6.7	55.1
P-263 A/B	CNEL	99.4		118.6	-52.5	2.5	0.0	-0.7	-0.38	0.0	0.0	0.0	6.7	55.1
P-270 A/B	CNEL	98.5		183.8	-56.3	2.6	0.0	-1.0	-0.70	0.0	0.0	0.0	6.7	49.9
P-271 A/B	CNEL	98.2		151.5	-54.6	2.6	0.0	-0.8	-0.70	0.0	0.0	0.0	6.7	51.4
P-272 A/B	CNEL	98.2		147.0	-54.3	2.6	0.0	-0.8	-0.59	0.0	0.0	0.0	6.7	51.7
P-273 A/B	CNEL	98.5		180.3	-56.1	2.6	0.0	-0.9	-0.68	0.0	0.0	0.0	6.7	50.1
P-275 A/B/C	CNEL	98.2		157.2	-54.9	2.6	0.0	-0.8	-0.77	0.0	0.1	0.0	6.7	51.1
P-305	CNEL	99.3		188.3	-56.5	2.5	-17.5	-0.6	-0.10	0.0	0.6	0.0	6.7	34.3
P-306	CNEL	100.8		198.2	-56.9	2.5	-17.8	-0.5	-0.33	0.0	0.7	0.0	6.7	35.0
P-309	CNEL	99.3		190.7	-56.6	2.5	-17.1	-0.6	-0.16	0.0	0.5	0.0	6.7	34.5
P-328	CNEL	100.8		204.1	-57.2	2.5	-13.5	-0.6	-0.47	0.0	0.3	0.0	6.7	38.6
P-329	CNEL	100.8		201.2	-57.1	2.5	-13.8	-0.5	-0.40	0.0	0.3	0.0	6.7	38.4
P-353	CNEL	98.5		191.0	-56.6	2.5	0.0	-1.0	-0.14	0.0	0.0	0.0	6.7	50.0
P-358 A/B	CNEL	99.4		213.9	-57.6	2.6	-7.6	-0.8	-0.93	0.0	0.0	0.0	6.7	41.8
P-359 A/B	CNEL	99.4		213.2	-57.6	2.6	0.0	-1.1	-0.59	0.0	0.2	0.0	6.7	49.6
P-360 A/B	CNEL	99.4		212.0	-57.5	2.6	0.0	-1.1	-0.59	0.0	0.0	0.0	6.7	49.5
P-361A	CNEL	98.1		262.9	-59.4	2.7	0.0	-1.3	-1.69	0.0	0.0	0.0	6.7	45.1
P-371 A/B	CNEL	98.0		147.0	-54.3	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.2
P-373 A/B	CNEL	98.0		151.5	-54.6	2.6	0.0	-0.8		0.0	1.2	0.0	6.7	53.1
P-374 A/B	CNEL	98.0		150.7	-54.6	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	51.9
P-375 A/B	CNEL	98.0		149.2	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.0
P-376	CNEL	98.0		150.1	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.0
P-376 A/B	CNEL	98.0		152.7	-54.7	2.6	0.0	-0.8		0.0	1.2	0.0	6.7	53.1
P-377	CNEL	98.0		149.8	-54.5	2.6	0.0	-0.8		0.0	0.0	0.0	6.7	52.0
P-1101 A	CNEL	98.9		285.4	-60.1	2.8	-1.8	-1.2	-1.47	0.0	0.0	0.0	6.7	43.9
P-1103	CNEL	98.9		283.9	-60.1	2.8	-1.9	-1.2	-1.47	0.0	0.0	0.0	6.7	43.8
P-1105 A/B/C	CNEL	98.9		291.0	-60.3	2.9	-1.5	-1.3	-1.46	0.0	0.4	0.0	6.7	44.4
P-1800	CNEL	98.9		315.6	-61.0	3.3	-10.5	-1.1		0.0	5.4	0.0	6.7	41.7
P-1801	CNEL	98.9		365.0	-62.2	3.6	-5.1	-1.6	-1.15	0.0	0.0	0.0	6.7	39.1
P-1802	CNEL	98.9		364.9	-62.2	3.6	-6.6	-1.4	-1.31	0.0	0.1	0.0	6.7	37.7
P-1803	CNEL	99.1		276.5	-59.8	3.1	-4.7	-1.3	-1.83	0.0	3.0	0.0	6.7	44.1
P-1804	CNEL	99.1		285.6	-60.1	3.2	-2.7	-1.2	-1.80	0.0	0.0	0.0	6.7	43.3
P-1805	CNEL	99.1		288.7	-60.2	3.2	-2.7	-1.2	-1.80	0.0	0.0	0.0	6.7	43.1
P-1806	CNEL	99.1		253.2	-59.1	2.9	-2.6	-1.1	-1.42	0.0	0.0	0.0	6.7	44.5
P-1809 A	CNEL	98.9		327.6	-61.3	3.4	-9.8	-1.1	-1.48	0.0	3.0	0.0	6.7	38.2
P-1810 A/B/C	CNEL	99.0		293.8	-60.4	3.3	-4.5	-1.5	-1.78	0.0	2.1	0.0	6.7	42.9
P-1811 A/B	CNEL	99.1		259.7	-59.3	3.0	-3.0	-1.1	-1.46	0.0	0.0	0.0	6.7	43.9
P-1811 A/B	CNEL	99.1		292.5	-60.3	3.3	-4.7	-1.3	-1.78	0.0	0.3	0.0	6.7	41.2
P-1847 A/B	CNEL	99.4		294.2	-60.4	3.3	0.0	-1.4	-0.84	0.0	2.2	0.0	6.7	49.0
P-1849 A/B	CNEL	99.4		300.0	-60.5	3.4	0.0	-1.4	-0.85	0.0	2.3	0.0	6.7	48.9
P-1853	CNEL	99.1		142.3	-54.1	2.4	0.0	-0.8		0.0	0.0	0.0	6.7	53.3
Piping Furnace Tanks	CNEL	87.1	72	201.2	-57.1	2.6	-0.1	-6.3		0.0	1.0	0.0	6.7	33.8
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	179.8	-56.1	2.5	-0.4	-5.8		0.0	0.0	0.0	6.7	45.2
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	197.0	-56.9	2.7	-12.0	-1.6		0.0	0.4	0.0	6.7	53.9
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	196.3	-56.9	2.7	-15.1	-4.5		0.0	0.9	0.0	6.7	49.0
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	370.0	-62.4	2.8	-21.6	-1.3		0.0	0.6	0.0	6.7	35.3
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	354.7	-62.0	2.7	-15.8	-1.1		0.0	5.4	0.0	6.7	47.0
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	326.4	-61.3	2.7	-11.4	-1.1		0.0	0.3	0.0	6.7	40.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	340.8	-61.6	2.7	-7.0	-1.4		0.0	0.2	0.0	6.7	50.7	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	319.9	-61.1	2.7	-0.2	-1.5		0.0	0.1	0.0	6.7	50.7	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	332.4	-61.4	2.7	-7.7	-1.3	-0.01	0.0	0.0	0.0	6.7	42.7	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	318.9	-61.1	2.6	0.0	-1.5		0.0	0.0	0.0	6.7	53.4	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	321.7	-61.1	2.7	-7.8	-1.3		0.0	2.8	0.0	6.7	48.1	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	345.4	-61.8	2.5	-4.9	-1.6		0.0	0.2	0.0	6.7	54.3	
PSA Pipe 3" Lagging	CNEL	80.6	11	201.8	-57.1	2.5	-11.0	-1.4		0.0	0.0	0.0	6.7	20.2	
PSA Skid Additional Piping w NC	CNEL	116.6	57	196.2	-56.8	2.7	-13.3	-1.6		0.0	0.3	0.0	6.7	54.5	
Reformer-Burner Reformer East	CNEL	97.3	269	222.7	-57.9	2.5	-19.4	-1.0		0.0	9.6	0.0	6.7	40.7	
Reformer-Burner Reformer North	CNEL	95.9	192	212.1	-57.5	2.6	-0.1	-1.7		0.0	0.0	0.0	6.7	45.8	
Reformer-Burner Reformer South	CNEL	95.8	191	221.6	-57.9	2.6	-14.7	-0.9		0.0	1.4	0.0	6.7	35.9	
Reformer-Burner Reformer West	CNEL	97.3	268	210.8	-57.5	2.5	-0.3	-1.6		0.0	0.0	0.0	6.7	50.1	
RFG A from battery to process	CNEL	99.4	87	183.4	-56.3	2.5	-0.2	-5.9		0.0	0.0	0.0	6.7	46.1	
RFG A from battery to process w NC	CNEL	115.2	42	199.0	-57.0	2.7	-13.6	-4.9		0.0	1.1	0.0	6.7	50.3	
Stack Noise	CNEL	108.4		239.0	-58.6	2.6	-0.6	-1.7		-7.2	0.0	0.0	6.7	49.6	
Steam Turbine-Facade 01	CNEL	99.6	29	177.3	-56.0	2.7	0.0	-4.1		0.0	0.0	0.0	6.7	48.9	
Steam Turbine-Facade 02	CNEL	96.2	13	180.1	-56.1	2.7	-10.1	-2.4		0.0	0.4	0.0	6.7	37.5	
Steam Turbine-Facade 03	CNEL	99.6	29	180.9	-56.1	2.7	-16.3	-2.3		0.0	11.5	0.0	6.7	45.6	
Steam Turbine-Facade 04	CNEL	96.2	13	178.2	-56.0	2.7	0.0	-4.1		0.0	2.6	0.0	6.7	48.1	
Steam Turbine-Roof 01	CNEL	99.7	30	179.1	-56.1	2.7	-4.4	-4.3		0.0	2.6	0.0	6.7	46.9	
Tank Farm Pump 1	CNEL	99.0	3	294.5	-60.4	3.1	0.0	-2.1	-0.40	0.0	0.0	0.0	6.7	45.8	
Tank Farm Pump 2	CNEL	99.0	3	312.8	-60.9	3.2	0.0	-2.3	-0.23	0.0	0.0	0.0	6.7	45.5	
Tank Farm Pump 3	CNEL	99.0	3	317.8	-61.0	3.2	0.0	-2.3	-0.18	0.0	0.0	0.0	6.7	45.4	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	132.3	-53.4	1.2	0.0	-1.8		0.0	0.1	-13.8	0.0	44.7	
XF-1502 Splitter Area 1	CNEL	104.5		198.0	-56.9	2.4	-1.9	-1.9	-0.17	-4.4	0.0	0.0	6.7	48.3	
XF-1502 Splitter Area 2	CNEL	104.5		194.3	-56.8	2.3	-1.8	-1.8	-0.13	-4.5	0.0	0.0	6.7	48.6	
XF-1504 Splitter Area 1	CNEL	104.5		197.6	-56.9	2.4	-3.5	-1.3	-0.19	-4.0	0.0	0.0	6.7	47.6	
XF-1504 Splitter Area 2	CNEL	104.5		193.9	-56.7	2.3	-3.4	-1.2	-0.15	-4.1	0.0	0.0	6.7	47.9	
XF 251, 250, 271, 270	CNEL	101.1	128	153.4	-54.7	2.1	0.0	-0.6		-3.0	0.0	0.0	6.7	51.5	
XF 260, 261A, 261 B	CNEL	99.9	97	107.0	-51.6	1.9	0.0	-0.5		-3.0	0.0	0.0	6.7	53.3	
XF 304, XF 321	CNEL	110.5	56	241.6	-58.7	2.3	-0.8	-0.9	-0.17	-2.9	0.1	0.0	6.7	56.2	
XF 313, XF 314	CNEL	113.0	18	270.4	-59.6	2.5	-3.1	-0.9	-0.74	-3.5	0.0	0.0	6.7	54.2	
XF 335-1, XF 335-2	CNEL	113.4	54	253.0	-59.1	2.3	-4.1	-1.2	-0.12	-2.9	0.6	0.0	6.7	55.7	
XF 353A/B	CNEL	95.4	35	219.5	-57.8	2.2	0.0	-0.9	-0.02	-2.9	0.0	0.0	6.7	42.7	
XF 353A/B	CNEL	95.4	35	211.1	-57.5	2.3	0.0	-0.8	0.00	-2.9	0.0	0.0	6.7	43.2	
XF 354A/B	CNEL	95.4	35	188.3	-56.5	1.9	-3.4	-0.6	0.00	-2.7	0.0	0.0	6.7	40.8	
XF 503	CNEL	113.0	21	187.6	-56.5	2.1	0.0	-2.5	-1.11	-3.9	0.0	0.0	6.7	57.9	
XF - 1601	CNEL	96.6		187.0	-56.4	2.3	-0.5	-0.7		-3.1	0.0	0.0	6.7	44.9	
XF - 1602	CNEL	96.6		187.1	-56.4	2.4	-0.5	-0.7		-3.0	0.0	0.0	6.7	45.0	
XF Module 1510	CNEL	108.3		191.2	-56.6	2.3	-4.3	-1.5	-0.10	-4.3	0.0	0.0	6.7	50.5	
XF Module 1519	CNEL	109.0		196.5	-56.9	2.3	-4.4	-1.5	-0.21	-4.2	0.0	0.0	6.7	50.8	
xxxx xxxx xxxx xxxx	CNEL		606								1.1			28.0	
xxxx xxxx xxxx xxxx	CNEL		606								1.0			27.8	
xxxx xxxx xxxx xxxx	CNEL		917								1.6			42.0	
xxxx xxxx xxxx xxxx	CNEL		917								1.0			41.4	
xxxx xxxx xxxx xxxx	CNEL		608								0.8			35.8	
xxxx xxxx xxxx xxxx	CNEL		608								0.9			35.9	
xxxx xxxx xxxx xxxx	CNEL		228								2.0			32.1	
xxxx xxxx xxxx xxxx	CNEL		520								1.9			34.7	
xxxx xxxx xxxx xxxx	CNEL		1341								1.8			48.2	
xxxx xxxx xxxx xxxx	CNEL		450								3.4			32.7	
Receiver SS-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 65.5 dB(A)		Ld 7-19 dB(A)		Leq,N 64.8 dB(A)		Le 19-22 dB(A)		CNEL 71.6 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	239.9	-58.6	3.5	-19.2	-1.0	-0.44	0.0	1.9	0.0	6.7	37.1	
18-1855 A/B	CNEL	98.8		160.1	-55.1	3.3	-0.4	-0.9	-0.46	0.0	0.0	0.0	6.7	51.9	
18-1856 A/B	CNEL	98.8		163.8	-55.3	3.3	-0.3	-0.9	-0.47	0.0	0.0	0.0	6.7	51.7	
18-1857 A/B	CNEL	98.8		156.7	-54.9	3.2	-0.4	-0.9	-0.45	0.0	0.0	0.0	6.7	52.0	
18-1858 A/B	CNEL	98.8		154.3	-54.8	2.8	-0.2	-0.9	-0.45	0.0	0.0	0.0	6.7	51.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		158.1	-55.0	2.8	-1.8	-0.9	-0.82	0.0	0.0	0.0	6.7	54.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	89.1	-50.0	1.2	-0.3	-1.9		0.0	0.3	-4.8	1.0	54.5	
Air Compressor C 1	CNEL	110.0	5	294.8	-60.4	3.1	-5.1	-1.2	-0.55	0.0	2.0	0.0	6.7	54.4	
Air Compressor Pump	CNEL	100.3		126.4	-53.0	2.4	-19.0	-1.8		0.0	5.9	0.0	6.7	41.5	
Blower F 401	CNEL	113.0		191.0	-56.6	0.6	-12.5	-0.3		0.0	5.0	0.0	6.7	56.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.5	-54.9	1.7	-4.8	-0.8		0.0	0.0	0.0	6.7	46.4	
Boiler Feed Water Pump A	CNEL	97.1	3	184.5	-56.3	3.3	-4.7	-0.9	-0.46	0.0	0.0	0.0	6.7	44.8	
Boiler Feed Water Pump B	CNEL	97.1	3	181.6	-56.2	3.3	-2.9	-1.0	-0.46	0.0	0.0	0.0	6.7	46.5	
C370 A Motor	CNEL	103.6	3	170.7	-55.6	2.1	-9.5	-0.8		0.0	2.5	0.0	6.7	48.9	
C370 B Motor	CNEL	108.6	3	171.3	-55.7	2.1	-10.2	-0.8		0.0	2.8	0.0	6.7	53.5	
C370A	CNEL	103.8	5	175.2	-55.9	2.1	-8.9	-0.9		0.0	2.4	0.0	6.7	49.4	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C370B	CNEL	103.8	5	175.7	-55.9	2.1	-9.0	-0.8		0.0	2.5	0.0	6.7	49.4
C-270 A	CNEL	106.3	6	143.4	-54.1	2.0	-7.8	-0.8	-0.16	0.0	0.1	0.0	6.7	52.3
C-270 B	CNEL	106.3	6	139.0	-53.9	2.0	-8.0	-0.7	-0.05	0.0	0.1	0.0	6.7	52.4
C-270 C	CNEL	106.3	6	134.7	-53.6	2.0	-9.5	-0.6		0.0	0.1	0.0	6.7	51.3
C-301 Compressor	CNEL	106.8	3	169.5	-55.6	2.1	-6.5	-0.9	-0.56	0.0	0.0	0.0	6.7	52.1
C-301 Motor	CNEL	106.8	4	166.3	-55.4	2.1	-4.8	-1.5	-0.48	0.0	0.0	0.0	6.7	53.5
C-351 Compressor	CNEL	106.8	4	163.3	-55.3	2.0	-6.5	-0.8	-0.58	0.0	0.0	0.0	6.7	52.4
C-351 Motor	CNEL	106.8	5	161.2	-55.1	1.9	-4.6	-1.8	-0.38	0.0	0.0	0.0	6.7	53.5
Cars Pumping 6 times in during delivery	CNEL	134.7	361	93.1	-50.4	0.3	-1.2	-0.3		0.0	0.4	-35.6	0.0	47.9
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.8	-58.7	1.7	-11.8	-1.2	-0.66	2.9	3.1	0.0	6.7	46.8
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	1.8	-4.1	-1.6	-1.13	0.0	0.4	0.0	6.7	43.9
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.6	-59.0	1.8	-17.7	-0.6	-0.88	-7.8	12.8	0.0	6.7	41.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.4	-58.8	1.6	-10.8	-1.2	-0.58	1.8	0.0	0.0	6.7	49.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.7	-58.7	1.7	-9.4	-1.0	-0.98	1.5	0.7	0.0	6.7	44.3
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.3	-59.1	1.8	-16.2	-0.7	-0.34	-7.4	0.1	0.0	6.7	25.3
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.3	-13.6	-0.5		4.3	0.0	0.0	6.7	39.5
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.6	-57.7	2.1	-19.0	-0.7		-5.4	0.0	0.0	6.7	23.8
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.5	-57.2	2.0	-0.6	-1.7		4.7	0.0	0.0	6.7	54.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.6	-57.4	2.0	-20.2	-0.7		-4.4	0.0	0.0	6.7	26.6
Cooling Tower M 512	CNEL	95.7		208.5	-57.4	3.1	-15.8	-0.8		0.0	0.8	0.0	6.7	32.4
Cooling Tower M 513	CNEL	95.7		208.8	-57.4	3.1	-14.6	-0.8		0.0	0.7	0.0	6.7	33.4
Cooling Tower M 514	CNEL	95.7		207.9	-57.3	3.1	-16.7	-0.7		0.0	1.0	0.0	6.7	31.7
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	204.1	-57.2	1.5	-0.3	-0.9	-0.44	-3.5	0.1	0.0	6.7	41.7
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	243.0	-58.7	3.1	-5.4	-0.1	-0.01	0.0	0.0	0.0	6.7	41.0
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	244.6	-58.8	3.2	-9.7	-0.1	-0.02	0.0	1.1	0.0	6.7	35.5
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	242.6	-58.7	2.3	-3.9	-0.1		0.0	0.0	0.0	6.7	39.7
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	240.6	-58.6	3.0	-2.0	-0.1		0.0	0.0	0.0	6.7	42.2
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	242.2	-58.7	3.1	-2.1	-0.1		0.0	0.2	0.0	6.7	44.4
FD Motor	CNEL	103.3	2	243.4	-58.7	3.5	-4.7	-2.2		0.0	0.0	0.0	6.7	47.9
Feed Compressor -B Motor	CNEL	103.8	5	167.2	-55.5	2.2	-9.0	-1.2	-0.43	0.0	0.0	0.0	6.7	46.6
Feed Compressor-A Compressor	CNEL	104.0	5	169.0	-55.6	2.2	-10.2	-0.8	-0.07	0.0	0.0	0.0	6.7	46.3
Feed Compressor-A Motor	CNEL	103.8	6	163.9	-55.3	2.2	-10.3	-1.1	-0.14	0.0	0.0	0.0	6.7	45.9
Feed Compressor-B Compressor	CNEL	104.0	7	172.8	-55.7	2.3	-9.8	-0.8	-0.40	0.0	0.0	0.0	6.7	46.2
H2S Compressor 18-C-271	CNEL	105.3	6	262.4	-59.4	3.0	-3.1	-1.6	-0.47	0.0	0.8	0.0	6.7	51.2
Heater # 5-Heater	CNEL	91.1	13	156.0	-54.9	1.7	-0.7	-1.0		0.0	0.0	0.0	6.7	46.0
Heater # 5-Heater	CNEL	91.1	13	150.9	-54.6	1.6	-0.7	-0.9		0.0	0.0	0.0	6.7	46.2
Heater # 5-Heater	CNEL	91.1	13	160.9	-55.1	1.8	-0.4	-0.9		0.0	0.0	0.0	6.7	46.1
Hydro Heater H-402	CNEL	98.1		218.8	-57.8	1.9	-3.2	-0.7		0.0	0.0	0.0	6.7	44.9
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	238.5	-58.5	3.7	-7.9	0.0	-0.06	0.0	0.0	0.0	6.7	30.8
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	236.4	-58.5	3.7	-3.6	-0.1	-0.09	0.0	0.0	0.0	6.7	35.4
ID Fan-ID Fan - North	CNEL	92.2	8	238.4	-58.5	3.7	-8.5	0.0	-0.05	0.0	0.1	0.0	6.7	35.5
ID Fan-ID Fan - North 2	CNEL	91.4	7	238.6	-58.5	3.7	-7.9	0.0	-0.06	0.0	0.1	0.0	6.7	35.2
ID Fan-ID Fan - South	CNEL	92.3	9	235.4	-58.4	3.6	-3.9	-0.1	-0.14	0.0	0.0	0.0	6.7	40.1
ID Fan-ID Fan - South 2	CNEL	91.4	7	237.2	-58.5	3.6	-3.8	-0.1	-0.13	0.0	0.0	0.0	6.7	39.2
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	237.3	-58.5	3.1	-5.0	-0.1	-0.10	0.0	0.0	0.0	6.7	40.0
Motor & Pump P 56A/B	CNEL	93.7		236.7	-58.5	3.1	-3.5	-1.7	-0.31	0.0	0.1	0.0	6.7	39.6
Motor & Pump P 120/121	CNEL	96.2	2	282.8	-60.0	3.4	-19.3	-1.0	-0.41	0.0	0.0	0.0	6.7	25.6
Motor & Pump P 211/212	CNEL	93.7		224.4	-58.0	3.0	-11.7	-1.1	-0.72	0.0	0.1	0.0	6.7	31.8
Motor & Pump P 215/214	CNEL	94.6		228.9	-58.2	3.0	-6.1	-1.5	-0.83	0.0	0.0	0.0	6.7	37.7
Motor & Pump P 216	CNEL	98.3		228.5	-58.2	2.8	-6.4	-1.5	-0.73	0.0	2.5	0.0	6.7	43.4
Motor & Pump P 217/218	CNEL	93.7		226.2	-58.1	3.3	-11.8	-1.1	-0.77	0.0	0.0	0.0	6.7	31.8
Motor & Pump P 300	CNEL	97.1	2	290.0	-60.2	3.4	-15.0	-1.0	-0.51	0.0	4.1	0.0	6.7	34.7
Motor & Pump P 301	CNEL	102.1	2	288.4	-60.2	3.4	-14.7	-1.0	-0.51	0.0	5.5	0.0	6.7	41.2
Motor & Pump P 302	CNEL	97.1	2	291.6	-60.3	3.4	-15.0	-1.0	-0.51	0.0	1.2	0.0	6.7	31.6
Motor & Pump P 303	CNEL	97.1	2	293.0	-60.3	3.4	-14.9	-0.9	-0.52	0.0	0.7	0.0	6.7	31.2
Motor & Pump P 305	CNEL	97.5	2	294.3	-60.4	3.4	-14.8	-0.9	-0.52	0.0	1.1	0.0	6.7	32.0
Motor & Pump P 306	CNEL	112.6	4	302.5	-60.6	3.0	-16.9	-1.1	-0.30	0.0	1.2	0.0	6.7	44.7
Motor & Pump P 307	CNEL	102.1	2	284.1	-60.1	3.4	-14.6	-1.0	-0.53	0.0	1.5	0.0	6.7	37.4
Motor & Pump P 309	CNEL	97.5	2	295.6	-60.4	3.4	-14.8	-1.0	-0.52	0.0	0.6	0.0	6.7	31.6
Motor & Pump P 312	CNEL	101.5	2	264.6	-59.4	3.4	-8.6	-0.9	-0.97	0.0	4.0	0.0	6.7	45.6
Motor & Pump P 313	CNEL	101.5	2	263.0	-59.4	3.4	-7.2	-0.9	-1.00	0.0	3.2	0.0	6.7	46.2
Motor & Pump P 315	CNEL	102.9	2	257.5	-59.2	3.2	-4.6	-1.0	-1.14	0.0	0.4	0.0	6.7	47.3
Motor & Pump P 316	CNEL	102.9	2	255.8	-59.2	3.2	-4.5	-1.0	-1.18	0.0	1.0	0.0	6.7	47.9
Motor & Pump P 317	CNEL	102.9	2	254.0	-59.1	3.1	-4.2	-1.0	-1.22	0.0	1.2	0.0	6.7	48.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 318	CNEL	100.2	1	259.0	-59.3	3.4	-4.7	-1.0	-1.08	0.0	0.1	0.0	6.7	44.3
Motor & Pump P 319	CNEL	100.2	1	260.3	-59.3	3.4	-5.9	-1.0	-1.05	0.0	1.0	0.0	6.7	44.1
Motor & Pump P 327	CNEL	111.2	3	310.0	-60.8	3.7	-21.9	-1.8	-0.17	0.0	3.4	0.0	6.7	40.4
Motor & Pump P 328	CNEL	109.9	5	297.2	-60.5	3.3	-15.4	-1.0	-0.34	0.0	0.7	0.0	6.7	43.5
Motor & Pump P 329	CNEL	110.2	5	299.8	-60.5	3.4	-16.6	-1.1	-0.26	0.0	1.1	0.0	6.7	42.9
Motor & Pump P 451	CNEL	93.7		212.1	-57.5	3.0	-9.3	-1.2		0.0	0.0	0.0	6.7	35.3
Motor & Pump P 453	CNEL	93.7		200.4	-57.0	2.8	-0.3	-2.0		0.0	0.0	0.0	6.7	43.8
Motor & Pump P 454	CNEL	93.7		213.2	-57.6	3.0	-11.2	-1.0		0.0	0.0	0.0	6.7	33.5
Motor & Pump P 457	CNEL	93.7		199.1	-57.0	2.8	-0.3	-2.0		0.0	0.0	0.0	6.7	43.9
Motor & Pump P 458	CNEL	93.7		211.6	-57.5	3.0	-4.7	-1.4		0.0	0.0	0.0	6.7	39.7
Motor & Pump P 459	CNEL	93.7		214.1	-57.6	3.0	-10.8	-1.1		0.0	0.0	0.0	6.7	33.9
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		232.9	-58.3	3.4	-21.2	-1.5		0.0	0.0	0.0	6.7	25.2
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.5	-58.4	3.4	-17.1	-1.2		0.0	0.0	0.0	6.7	29.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.5	-59.4	3.6	-16.6	-1.2	-0.63	0.0	8.4	0.0	6.7	36.3
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.6	-59.4	3.7	-20.0	-1.4	-0.25	0.0	11.4	0.0	6.7	36.0
Motor & Pump P 1601 A	CNEL	96.3	2	225.2	-58.0	3.2	-19.0	-1.1		0.0	0.0	0.0	6.7	28.0
Motor & Pump P 1601 B	CNEL	96.3	2	224.9	-58.0	3.2	-18.9	-1.1		0.0	0.0	0.0	6.7	28.1
Motor & Pump P 1602 A	CNEL	96.3	2	224.4	-58.0	3.2	-18.7	-1.1		0.0	0.0	0.0	6.7	28.3
Motor & Pump P 1602 B	CNEL	96.5	2	224.1	-58.0	3.2	-18.2	-1.1		0.0	0.0	0.0	6.7	29.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.4	-58.2	3.5	-19.6	-1.2	-0.08	0.0	0.0	0.0	6.7	27.6
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.1	-58.4	3.5	-17.8	-1.1	-0.19	0.0	0.0	0.0	6.7	29.2
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.4	-58.5	3.5	-17.0	-1.0	-0.25	0.0	0.0	0.0	6.7	30.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.7	-58.4	3.4	-17.2	-1.2		0.0	0.0	0.0	6.7	29.9
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.4	-58.5	3.4	-17.0	-1.2	0.00	0.0	0.0	0.0	6.7	30.1
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.4	-58.6	3.6	-18.9	-1.1	-0.08	0.0	0.0	0.0	6.7	27.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.0	-58.6	3.6	-16.2	-1.1	-0.25	0.0	0.0	0.0	6.7	30.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.1	-58.7	3.5	-16.8	-1.1	-0.22	0.0	0.0	0.0	6.7	29.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.6	-58.7	3.6	-14.2	-1.0	-0.36	0.0	0.0	0.0	6.7	32.3
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	285.9	-60.1	3.3	-13.0	-0.9	-0.23	0.0	0.0	0.0	6.7	39.8
P-2 A/B	CNEL	98.5		246.2	-58.8	3.7	-0.3	-1.4	-1.35	0.0	0.0	0.0	6.7	47.1
P-50 A/B	CNEL	98.1		215.0	-57.6	3.8	-21.5	-0.9	-0.23	0.0	0.0	0.0	6.7	28.2
P-51 A/B	CNEL	98.1		213.8	-57.6	3.7	-17.9	-0.8	-0.23	0.0	0.0	0.0	6.7	32.0
P-060 A/B	CNEL	98.1		218.2	-57.8	3.8	-23.3	-1.0	-1.51	0.0	0.0	0.0	6.7	25.0
P-63	CNEL	98.5		214.1	-57.6	3.6	-0.4	-1.2	-0.97	0.0	0.7	0.0	6.7	49.2
P-70 A/B	CNEL	98.1		216.7	-57.7	3.8	-22.6	-0.9	-1.48	0.0	0.0	0.0	6.7	25.8
P-73 A/B	CNEL	98.5		241.7	-58.7	3.7	-0.3	-1.3	-1.41	0.0	0.0	0.0	6.7	47.2
P-251 A/B	CNEL	98.2		109.9	-51.8	3.1	-1.2	-0.8	-0.28	0.0	0.0	0.0	6.7	53.9
P-252 A/B	CNEL	98.2		120.6	-52.6	3.2	-1.0	-0.8	-0.43	0.0	0.2	0.0	6.7	53.4
P-253	CNEL	98.2		125.6	-53.0	3.3	-0.8	-0.8	-0.65	0.0	0.0	0.0	6.7	52.9
P-254 A/B	CNEL	98.2		117.6	-52.4	3.2	-0.9	-0.8	-0.41	0.0	0.9	0.0	6.7	54.4
P-255 A/B	CNEL	98.2		115.2	-52.2	3.1	-1.0	-0.8	-0.40	0.0	0.2	0.0	6.7	53.8
P-255 A/B	CNEL	98.2		105.4	-51.5	3.0	-1.5	-0.7	-0.06	0.0	0.0	0.0	6.7	54.1
P-256 A/B	CNEL	98.2		112.2	-52.0	3.1	-1.1	-0.8	-0.38	0.0	0.2	0.0	6.7	53.9
P-259 A/B	CNEL	98.2		107.7	-51.6	3.0	-1.3	-0.7	-0.18	0.0	0.0	0.0	6.7	54.1
P-260	CNEL	99.1		109.9	-51.8	3.1	-1.5	-0.8	-0.23	0.0	0.1	0.0	6.7	54.5
P-261 A/B	CNEL	98.0		100.4	-51.0	2.8	-2.6	-0.8	-0.20	0.0	0.0	0.0	6.7	52.9
P-262 A/B	CNEL	99.1		106.0	-51.5	3.0	-1.9	-0.8	-0.22	0.0	1.3	0.0	6.7	55.6
P-263 A/B	CNEL	99.4		107.9	-51.7	3.0	-1.8	-0.8	-0.23	0.0	1.3	0.0	6.7	56.0
P-270 A/B	CNEL	98.5		152.2	-54.6	3.5	-0.5	-0.9	-0.11	0.0	0.0	0.0	6.7	52.6
P-271 A/B	CNEL	98.2		124.8	-52.9	3.3	-0.7	-0.8	-0.43	0.0	0.0	0.0	6.7	53.3
P-272 A/B	CNEL	98.2		121.3	-52.7	3.2	-0.8	-0.8	-0.42	0.0	0.0	0.0	6.7	53.4
P-273 A/B	CNEL	98.5		149.2	-54.5	3.5	-0.5	-0.9	-0.09	0.0	0.0	0.0	6.7	52.7
P-275 A/B/C	CNEL	98.2		133.6	-53.5	3.4	-0.7	-0.8	-0.73	0.0	0.0	0.0	6.7	52.5
P-305	CNEL	99.3		141.2	-54.0	3.1	-15.3	-0.5	-0.10	0.0	0.0	0.0	6.7	39.2
P-306	CNEL	100.8		150.9	-54.6	3.2	-0.7	-0.9	-0.30	0.0	0.0	0.0	6.7	54.2
P-309	CNEL	99.3		143.6	-54.1	3.1	-14.1	-0.5	-0.16	0.0	0.0	0.0	6.7	40.2
P-328	CNEL	100.8		156.6	-54.9	3.2	-0.6	-1.0	-0.42	0.0	0.0	0.0	6.7	53.8
P-329	CNEL	100.8		153.9	-54.7	3.2	-0.6	-1.0	-0.36	0.0	0.0	0.0	6.7	54.0
P-353	CNEL	98.5		147.0	-54.3	2.7	-13.2	-0.5	-0.16	0.0	0.1	0.0	6.7	39.7
P-358 A/B	CNEL	99.4		174.2	-55.8	3.6	-0.5	-1.0	-0.61	0.0	0.0	0.0	6.7	51.8
P-359 A/B	CNEL	99.4		172.5	-55.7	3.6	-0.5	-1.0	-0.60	0.0	0.0	0.0	6.7	51.8
P-360 A/B	CNEL	99.4		169.3	-55.6	3.5	-9.7	-0.6	-0.63	0.0	2.8	0.0	6.7	45.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-361A	CNEL	98.1		225.4	-58.1	3.5	-3.5	-1.0	-1.51	0.0	1.0	0.0	6.7	45.2
P-371 A/B	CNEL	98.0		179.7	-56.1	3.1	-2.1	-1.3		0.0	0.0	0.0	6.7	48.3
P-373 A/B	CNEL	98.0		178.3	-56.0	3.1	-11.2	-0.6		0.0	3.1	0.0	6.7	43.1
P-374 A/B	CNEL	98.0		178.7	-56.0	3.1	-10.1	-0.6		0.0	2.6	0.0	6.7	43.7
P-375 A/B	CNEL	98.0		179.9	-56.1	3.1	-1.9	-1.2		0.0	0.0	0.0	6.7	48.6
P-376	CNEL	98.0		178.9	-56.0	3.1	-6.2	-0.7		0.0	1.3	0.0	6.7	46.1
P-376 A/B	CNEL	98.0		178.2	-56.0	3.2	-11.3	-0.6		0.0	2.0	0.0	6.7	41.9
P-377	CNEL	98.0		179.2	-56.1	3.1	-4.6	-0.7		0.0	1.0	0.0	6.7	47.3
P-1101 A	CNEL	98.9		241.1	-58.6	3.4	-8.3	-0.8	-1.52	0.0	0.0	0.0	6.7	39.7
P-1103	CNEL	98.9		239.7	-58.6	3.4	-8.5	-0.8	-1.52	0.0	0.0	0.0	6.7	39.6
P-1105 A/B/C	CNEL	98.9		246.6	-58.8	3.5	-7.7	-0.9	-1.51	0.0	0.0	0.0	6.7	40.1
P-1800	CNEL	98.9		265.7	-59.5	3.6	-5.1	-1.3		0.0	1.7	0.0	6.7	45.0
P-1801	CNEL	98.9		315.4	-61.0	3.8	-4.7	-1.6		0.0	0.0	0.0	6.7	42.1
P-1802	CNEL	98.9		315.5	-61.0	3.8	-4.8	-1.6		0.0	0.0	0.0	6.7	42.0
P-1803	CNEL	99.1		240.2	-58.6	4.0	-6.5	-1.0	-1.82	0.0	3.3	0.0	6.7	45.1
P-1804	CNEL	99.1		246.1	-58.8	4.0	-12.0	-0.8	-1.61	0.0	0.7	0.0	6.7	37.2
P-1805	CNEL	99.1		249.1	-58.9	4.0	-11.0	-0.8	-1.60	0.0	0.9	0.0	6.7	38.3
P-1806	CNEL	99.1		218.7	-57.8	3.9	-4.2	-1.0	-1.37	0.0	0.0	0.0	6.7	45.4
P-1809 A	CNEL	98.9		278.1	-59.9	3.7	-9.2	-1.1		0.0	3.3	0.0	6.7	42.5
P-1810 A/B/C	CNEL	99.0		255.8	-59.2	4.0	-6.7	-1.0	-1.58	0.0	0.0	0.0	6.7	41.3
P-1811 A/B	CNEL	99.1		224.7	-58.0	4.0	-4.1	-1.0	-1.52	0.0	0.0	0.0	6.7	45.1
P-1811 A/B	CNEL	99.1		252.8	-59.0	4.0	-4.8	-1.3	-1.52	0.0	2.1	0.0	6.7	45.2
P-1847 A/B	CNEL	99.4		269.8	-59.6	4.2	-0.3	-1.4	-0.43	0.0	0.7	0.0	6.7	49.2
P-1849 A/B	CNEL	99.4		275.0	-59.8	4.2	-0.3	-1.5	-0.36	0.0	0.7	0.0	6.7	49.2
P-1853	CNEL	99.1		101.6	-51.1	2.7	-1.5	-0.7		0.0	0.0	0.0	6.7	55.2
Piping Furnace Tanks	CNEL	87.1	72	214.3	-57.6	2.1	-3.0	-6.9	-0.10	0.0	1.5	0.0	6.7	29.7
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	193.9	-56.7	2.0	-3.3	-6.9	0.00	0.0	0.0	0.0	6.7	40.2
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	221.2	-57.9	2.7	-16.8	-1.6		0.0	0.2	0.0	6.7	47.9
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	219.8	-57.8	2.7	-19.9	-4.2		0.0	0.5	0.0	6.7	43.0
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	335.9	-61.5	2.7	-22.0	-1.3		0.0	0.7	0.0	6.7	35.7
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	324.8	-61.2	2.7	-18.8	-1.1		0.0	8.5	0.0	6.7	47.8
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	297.2	-60.5	2.5	-14.1	-1.0	-0.02	0.0	0.0	0.0	6.7	37.7
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	305.4	-60.7	2.5	-9.3	-1.3		0.0	0.1	0.0	6.7	49.1
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	288.3	-60.2	2.5	-8.1	-1.2		0.0	0.1	0.0	6.7	43.8
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	303.4	-60.6	2.6	-12.4	-1.1		0.0	0.0	0.0	6.7	38.9
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	288.8	-60.2	2.5	-1.9	-1.5	-0.37	0.0	0.0	0.0	6.7	51.9
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	288.6	-60.2	2.5	-9.8	-1.2	-0.09	0.0	0.8	0.0	6.7	44.7
Pre-Treat Train-Roof 01	CNEL	113.1	2037	313.0	-60.9	1.8	-5.1	-1.5		0.0	0.4	0.0	6.7	54.4
PSA Pipe 3" Lagging	CNEL	80.6	11	221.5	-57.9	1.9	-16.2	-1.3		0.0	0.2	0.0	6.7	14.0
PSA Skid Additional Piping w NC	CNEL	116.6	57	221.1	-57.9	2.7	-17.3	-1.6		0.0	0.3	0.0	6.7	49.4
Reformer-Burner Reformer East	CNEL	97.3	269	233.7	-58.4	1.9	-20.5	-1.2		0.0	0.0	0.0	6.7	28.9
Reformer-Burner Reformer North	CNEL	95.9	192	224.7	-58.0	2.0	-1.1	-1.9		0.0	0.0	0.0	6.7	43.5
Reformer-Burner Reformer South	CNEL	95.8	191	228.7	-58.2	2.0	-11.9	-0.9		0.0	2.2	0.0	6.7	38.6
Reformer-Burner Reformer West	CNEL	97.3	268	220.5	-57.9	2.0	-1.2	-1.9	-0.09	0.0	0.0	0.0	6.7	47.9
RFG A from battery to process	CNEL	99.4	87	195.5	-56.8	2.1	-3.8	-6.7	-0.11	0.0	0.1	0.0	6.7	40.8
RFG A from battery to process w NC	CNEL	115.2	42	222.6	-57.9	2.7	-18.7	-4.3		0.0	0.4	0.0	6.7	44.0
Stack Noise	CNEL	108.4		241.0	-58.6	1.5	-0.7	-2.1		-7.6	0.0	0.0	6.7	47.6
Steam Turbine-Facade 01	CNEL	99.6	29	202.7	-57.1	3.1	-8.7	-3.2		0.0	0.1	0.0	6.7	40.5
Steam Turbine-Facade 02	CNEL	96.2	13	204.5	-57.2	3.2	-8.5	-3.1		0.0	2.9	0.0	6.7	40.1
Steam Turbine-Facade 03	CNEL	99.6	29	206.4	-57.3	3.2	-22.2	-2.7		0.0	9.3	0.0	6.7	36.5
Steam Turbine-Facade 04	CNEL	96.2	13	204.7	-57.2	3.1	-20.0	-2.4		0.0	1.1	0.0	6.7	27.5
Steam Turbine-Roof 01	CNEL	99.7	30	204.6	-57.2	2.3	-5.1	-4.4		0.0	2.7	0.0	6.7	44.7
Tank Farm Pump 1	CNEL	99.0	3	274.9	-59.8	4.0	-1.3	-2.6	-0.85	0.0	1.1	0.0	6.7	46.2
Tank Farm Pump 2	CNEL	99.0	3	290.7	-60.3	4.1	-0.1	-2.2	-0.61	0.0	0.0	0.0	6.7	46.6
Tank Farm Pump 3	CNEL	99.0	3	295.1	-60.4	4.1	-0.1	-2.3	-0.54	0.0	0.0	0.0	6.7	46.5
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	176.6	-55.9	1.2	-0.3	-2.3		0.0	0.3	-13.8	0.0	41.6
XF-1502 Splitter Area 1	CNEL	104.5		238.3	-58.5	1.5	-15.2	-0.9	0.00	-3.1	0.0	0.0	6.7	34.9
XF-1502 Splitter Area 2	CNEL	104.5		234.7	-58.4	1.5	-17.4	-0.9	0.00	-3.1	0.0	0.0	6.7	32.8
XF-1504 Splitter Area 1	CNEL	104.5		237.1	-58.5	1.5	-4.0	-1.5	-0.08	-4.2	0.0	0.0	6.7	44.5
XF-1504 Splitter Area 2	CNEL	104.5		233.5	-58.4	1.5	-4.4	-1.5	-0.08	-4.2	0.0	0.0	6.7	44.2
XF 251, 250, 271, 270	CNEL	101.1	128	128.6	-53.2	1.3	-0.1	-0.6	-0.54	-3.2	0.0	0.0	6.7	51.5
XF 260, 261A, 261 B	CNEL	99.9	97	98.6	-50.9	1.3	0.0	-0.5	-0.07	-3.1	0.0	0.0	6.7	53.2
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	0.6	-1.3	-1.2	-0.79	-3.4	0.1	0.0	6.7	51.1
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	1.4	-5.3	-1.1	-0.20	-3.7	0.1	0.0	6.7	49.9
XF 335-1, XF 335-2	CNEL	113.4	54	301.2	-60.6	0.9	-3.4	-1.5	-0.42	-3.2	0.3	0.0	6.7	52.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 353A/B	CNEL	95.4	35	177.8	-56.0	1.1	-3.1	-0.6	-0.10	-2.9	0.1	0.0	6.7	40.7	
XF 353A/B	CNEL	95.4	35	175.2	-55.9	1.2	-0.2	-0.8	-0.85	-3.5	0.0	0.0	6.7	42.0	
XF 354A/B	CNEL	95.4	35	142.9	-54.1	0.8	-6.4	-0.3	0.00	-2.3	0.3	0.0	6.7	40.2	
XF 503	CNEL	113.0	21	236.9	-58.5	1.0	-2.2	-3.2	-0.85	-4.0	0.0	0.0	6.7	52.1	
XF - 1601	CNEL	96.6		223.8	-58.0	1.0	0.0	-0.8		-3.1	0.0	0.0	6.7	42.3	
XF - 1602	CNEL	96.6		222.6	-57.9	1.0	0.0	-0.8		-3.1	0.0	0.0	6.7	42.4	
XF Module 1510	CNEL	108.3		232.9	-58.3	1.4	-7.1	-1.2	-0.10	-3.9	0.0	0.0	6.7	45.8	
XF Module 1519	CNEL	109.0		238.0	-58.5	1.4	-7.0	-1.2	-0.21	-3.9	0.0	0.0	6.7	46.3	
xxxx xxxx xxxx xxxx	CNEL		606								0.7			27.5	
xxxx xxxx xxxx xxxx	CNEL		606								0.6			27.6	
xxxx xxxx xxxx xxxx	CNEL		917								1.6			44.2	
xxxx xxxx xxxx xxxx	CNEL		917								1.5			44.0	
xxxx xxxx xxxx xxxx	CNEL		608								1.6			31.3	
xxxx xxxx xxxx xxxx	CNEL		608								1.5			31.1	
xxxx xxxx xxxx xxxx	CNEL		228								1.8			31.3	
xxxx xxxx xxxx xxxx	CNEL		520								2.1			29.7	
xxxx xxxx xxxx xxxx	CNEL		1341								1.3			47.3	
xxxx xxxx xxxx xxxx	CNEL		450								3.6			35.5	
Receiver SS-5 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.3 dB(A)			Ld 7-19 dB(A)		Leq,N 65.7 dB(A)		Le 19-22 dB(A)		CNEL 72.5 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	CNEL	104.4	2	239.9	-58.6	2.9	-18.0	-1.1	-0.44	0.0	1.8	0.0	6.7	37.6	
18-1855 A/B	CNEL	98.8		160.1	-55.1	2.7	0.0	-0.9	-0.47	0.0	0.0	0.0	6.7	51.7	
18-1856 A/B	CNEL	98.8		163.9	-55.3	2.7	0.0	-0.9	-0.49	0.0	0.0	0.0	6.7	51.5	
18-1857 A/B	CNEL	98.8		156.7	-54.9	2.7	0.0	-0.8	-0.46	0.0	0.0	0.0	6.7	51.9	
18-1858 A/B	CNEL	98.8		154.4	-54.8	2.6	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	52.1	
18-PK 1802 Air Compressor Package	CNEL	103.1		158.2	-55.0	2.6	0.0	-0.6	-0.87	0.0	0.0	0.0	6.7	55.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	89.2	-50.0	1.2	-0.2	-1.9		0.0	0.3	-4.8	1.0	54.7	
Air Compressor C 1	CNEL	110.0	5	294.8	-60.4	3.5	-4.5	-1.2	-0.57	0.0	1.9	0.0	6.7	55.5	
Air Compressor Pump	CNEL	100.3		126.5	-53.0	2.5	-18.8	-1.7		0.0	6.4	0.0	6.7	42.4	
Blower F 401	CNEL	113.0		191.0	-56.6	2.0	-12.5	-0.3		0.0	4.2	0.0	6.7	56.4	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.6	-54.9	2.3	-4.7	-0.7		0.0	0.0	0.0	6.7	47.2	
Boiler Feed Water Pump A	CNEL	97.1	3	184.5	-56.3	2.7	-3.8	-0.9	-0.47	0.0	0.0	0.0	6.7	44.9	
Boiler Feed Water Pump B	CNEL	97.1	3	181.7	-56.2	2.7	-2.4	-1.0	-0.46	0.0	0.0	0.0	6.7	46.4	
C370 A Motor	CNEL	103.6	3	170.7	-55.6	2.6	-8.1	-0.8		0.0	1.7	0.0	6.7	49.9	
C370 B Motor	CNEL	108.6	3	171.3	-55.7	2.6	-9.1	-0.8		0.0	2.0	0.0	6.7	54.3	
C370A	CNEL	103.8	5	175.2	-55.9	2.6	-7.2	-0.9		0.0	1.5	0.0	6.7	50.6	
C370B	CNEL	103.8	5	175.7	-55.9	2.6	-7.4	-0.9		0.0	1.6	0.0	6.7	50.5	
C-270 A	CNEL	106.3	6	143.4	-54.1	2.5	-7.1	-0.8	-0.17	0.0	0.1	0.0	6.7	53.4	
C-270 B	CNEL	106.3	6	139.0	-53.9	2.5	-7.3	-0.7	-0.05	0.0	0.0	0.0	6.7	53.6	
C-270 C	CNEL	106.3	6	134.8	-53.6	2.4	-9.1	-0.6		0.0	0.0	0.0	6.7	52.2	
C-301 Compressor	CNEL	106.8	3	169.5	-55.6	2.6	-5.9	-0.9	-0.56	0.0	0.0	0.0	6.7	53.1	
C-301 Motor	CNEL	106.8	4	166.3	-55.4	2.6	-4.6	-1.5	-0.48	0.0	0.0	0.0	6.7	54.2	
C-351 Compressor	CNEL	106.8	4	163.3	-55.3	2.6	-4.9	-1.0	-0.57	0.0	0.0	0.0	6.7	54.4	
C-351 Motor	CNEL	106.8	5	161.2	-55.1	2.5	-4.7	-1.8	-0.38	0.0	0.0	0.0	6.7	53.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	93.3	-50.4	0.6	-0.5	-0.3		0.0	0.3	-35.6	0.0	48.8	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.8	-58.7	2.2	-11.4	-1.1	-0.66	2.9	3.1	0.0	6.7	47.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	2.4	-3.2	-1.9	-1.14	0.0	0.4	0.0	6.7	45.0	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.6	-59.0	2.3	-16.9	-0.5	-0.92	-7.8	12.0	0.0	6.7	42.2	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.4	-58.8	2.1	-10.5	-1.1	-0.59	1.8	0.0	0.0	6.7	50.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.7	-58.7	2.3	-8.7	-1.0	-1.01	1.5	0.6	0.0	6.7	45.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.4	-59.1	2.2	-15.7	-0.6	-0.36	-7.4	0.1	0.0	6.7	26.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.5	-12.7	-0.4		4.3	0.0	0.0	6.7	40.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.6	-57.7	2.5	-18.4	-0.6		-5.4	0.0	0.0	6.7	24.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.5	-57.2	2.4	-0.1	-1.4		4.7	0.0	0.0	6.7	55.7	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.6	-57.4	2.4	-19.6	-0.6		-4.4	0.0	0.0	6.7	27.7	
Cooling Tower M 512	CNEL	95.7		208.5	-57.4	2.6	-15.4	-0.7		0.0	0.9	0.0	6.7	32.4	
Cooling Tower M 513	CNEL	95.7		208.9	-57.4	2.6	-14.2	-0.7		0.0	0.7	0.0	6.7	33.4	
Cooling Tower M 514	CNEL	95.7		207.9	-57.3	2.6	-16.3	-0.7		0.0	1.1	0.0	6.7	31.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	204.0	-57.2	2.3	0.0	-0.8	-0.43	-3.0	0.1	0.0	6.7	43.4	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	243.0	-58.7	2.8	-3.6	-0.1		0.0	0.0	0.0	6.7	42.4	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	244.6	-58.8	2.8	-6.0	-0.1	-0.03	0.0	0.5	0.0	6.7	38.2	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	242.6	-58.7	2.6	-2.2	-0.1		0.0	0.0	0.0	6.7	41.6	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	240.6	-58.6	2.7	-3.1	-0.1		0.0	0.0	0.0	6.7	40.8	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	242.2	-58.7	2.8	-3.3	-0.1		0.0	0.3	0.0	6.7	42.9	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
FD Motor	CNEL	103.3	2	243.4	-58.7	3.0	-4.6	-2.1		0.0	0.1	0.0	6.7	47.5
Feed Compressor -B Motor	CNEL	103.8	5	167.2	-55.5	2.7	-7.7	-1.3	-0.43	0.0	0.0	0.0	6.7	48.3
Feed Compressor-A Compressor	CNEL	104.0	5	169.0	-55.6	2.6	-8.4	-0.8	-0.07	0.0	0.0	0.0	6.7	48.5
Feed Compressor-A Motor	CNEL	103.8	6	163.9	-55.3	2.7	-8.4	-1.2	-0.14	0.0	0.0	0.0	6.7	48.2
Feed Compressor-B Compressor	CNEL	104.0	7	172.8	-55.7	2.6	-8.0	-0.9	-0.40	0.0	0.0	0.0	6.7	48.3
H2S Compressor 18-C-271	CNEL	105.3	6	262.4	-59.4	2.8	-3.0	-1.5	-0.48	0.0	0.8	0.0	6.7	51.2
Heater # 5-Heater	CNEL	91.1	13	156.0	-54.9	2.3	-0.1	-0.8		0.0	0.0	0.0	6.7	47.3
Heater # 5-Heater	CNEL	91.1	13	150.9	-54.6	2.3	-0.2	-0.8		0.0	0.0	0.0	6.7	47.6
Heater # 5-Heater	CNEL	91.1	13	161.0	-55.1	2.3	0.0	-0.8		0.0	0.0	0.0	6.7	47.2
Hydro Heater H-402	CNEL	98.1		218.9	-57.8	2.6	-2.2	-0.8		0.0	0.0	0.0	6.7	46.5
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	238.6	-58.5	3.0	-8.2	-0.1	-0.07	0.0	0.0	0.0	6.7	29.8
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	236.4	-58.5	3.0	-3.6	-0.1	-0.11	0.0	0.0	0.0	6.7	34.7
ID Fan-ID Fan - North	CNEL	92.2	8	238.4	-58.5	3.0	-8.8	-0.1	-0.07	0.0	0.1	0.0	6.7	34.5
ID Fan-ID Fan - North 2	CNEL	91.4	7	238.6	-58.5	3.0	-8.2	-0.1	-0.07	0.0	0.1	0.0	6.7	34.3
ID Fan-ID Fan - South	CNEL	92.3	9	235.4	-58.4	2.9	-1.5	-0.1	-0.18	0.0	0.0	0.0	6.7	41.7
ID Fan-ID Fan - South 2	CNEL	91.4	7	237.2	-58.5	2.9	-1.8	-0.1	-0.18	0.0	0.0	0.0	6.7	40.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	237.3	-58.5	2.7	-4.6	-0.1	-0.12	0.0	0.0	0.0	6.7	40.0
Motor & Pump P 56A/B	CNEL	93.7		236.7	-58.5	2.9	-2.8	-1.8	-0.31	0.0	0.2	0.0	6.7	40.0
Motor & Pump P 120/121	CNEL	96.2	2	282.9	-60.0	3.4	-18.8	-0.9	-0.42	0.0	0.0	0.0	6.7	26.1
Motor & Pump P 211/212	CNEL	93.7		224.5	-58.0	2.7	-11.0	-1.1	-0.73	0.0	0.0	0.0	6.7	32.3
Motor & Pump P 215/214	CNEL	94.6		229.0	-58.2	2.8	-5.2	-1.5	-0.84	0.0	0.0	0.0	6.7	38.3
Motor & Pump P 216	CNEL	98.3		228.5	-58.2	2.6	-5.5	-1.6	-0.73	0.0	2.1	0.0	6.7	43.7
Motor & Pump P 217/218	CNEL	93.7		226.2	-58.1	3.0	-11.1	-1.1	-0.78	0.0	0.0	0.0	6.7	32.3
Motor & Pump P 300	CNEL	97.1	2	290.0	-60.2	3.5	-14.5	-0.9	-0.52	0.0	4.2	0.0	6.7	35.2
Motor & Pump P 301	CNEL	102.1	2	288.5	-60.2	3.4	-14.3	-0.9	-0.52	0.0	5.2	0.0	6.7	41.5
Motor & Pump P 302	CNEL	97.1	2	291.6	-60.3	3.5	-14.6	-0.9	-0.52	0.0	1.4	0.0	6.7	32.4
Motor & Pump P 303	CNEL	97.1	2	293.0	-60.3	3.4	-14.4	-0.9	-0.53	0.0	0.9	0.0	6.7	31.9
Motor & Pump P 305	CNEL	97.5	2	294.3	-60.4	3.5	-14.3	-0.9	-0.53	0.0	1.2	0.0	6.7	32.7
Motor & Pump P 306	CNEL	112.6	4	302.5	-60.6	3.4	-15.9	-0.9	-0.32	0.0	0.9	0.0	6.7	45.9
Motor & Pump P 307	CNEL	102.1	2	284.1	-60.1	3.4	-14.3	-0.9	-0.54	0.0	0.9	0.0	6.7	37.2
Motor & Pump P 309	CNEL	97.5	2	295.7	-60.4	3.5	-14.1	-0.9	-0.53	0.0	0.6	0.0	6.7	32.4
Motor & Pump P 312	CNEL	101.5	2	264.7	-59.4	3.3	-8.2	-0.9	-0.99	0.0	3.8	0.0	6.7	45.8
Motor & Pump P 313	CNEL	101.5	2	263.1	-59.4	3.3	-6.7	-0.9	-1.02	0.0	3.0	0.0	6.7	46.5
Motor & Pump P 315	CNEL	102.9	2	257.6	-59.2	3.1	-3.3	-1.1	-1.14	0.0	0.4	0.0	6.7	48.5
Motor & Pump P 316	CNEL	102.9	2	255.8	-59.2	3.1	-3.2	-1.1	-1.18	0.0	1.0	0.0	6.7	49.1
Motor & Pump P 317	CNEL	102.9	2	254.1	-59.1	3.0	-3.0	-1.1	-1.22	0.0	1.1	0.0	6.7	49.3
Motor & Pump P 318	CNEL	100.2	1	259.1	-59.3	3.3	-3.3	-1.1	-1.08	0.0	0.1	0.0	6.7	45.6
Motor & Pump P 319	CNEL	100.2	1	260.4	-59.3	3.4	-4.7	-1.0	-1.06	0.0	1.0	0.0	6.7	45.1
Motor & Pump P 327	CNEL	111.2	3	310.0	-60.8	3.6	-21.7	-1.7	-0.18	0.0	3.6	0.0	6.7	40.7
Motor & Pump P 328	CNEL	109.9	5	297.2	-60.5	3.3	-14.7	-0.9	-0.36	0.0	0.7	0.0	6.7	44.2
Motor & Pump P 329	CNEL	110.2	5	299.8	-60.5	3.4	-16.0	-1.0	-0.28	0.0	1.0	0.0	6.7	43.4
Motor & Pump P 451	CNEL	93.7		212.2	-57.5	2.6	-9.0	-1.1		0.0	0.0	0.0	6.7	35.2
Motor & Pump P 453	CNEL	93.7		200.5	-57.0	2.4	0.0	-1.8		0.0	0.0	0.0	6.7	43.9
Motor & Pump P 454	CNEL	93.7		213.2	-57.6	2.6	-10.7	-0.9		0.0	0.0	0.0	6.7	33.8
Motor & Pump P 457	CNEL	93.7		199.1	-57.0	2.4	0.0	-1.8		0.0	0.0	0.0	6.7	43.9
Motor & Pump P 458	CNEL	93.7		211.7	-57.5	2.6	-3.2	-1.6		0.0	0.0	0.0	6.7	40.7
Motor & Pump P 459	CNEL	93.7		214.1	-57.6	2.6	-10.2	-1.0		0.0	0.0	0.0	6.7	34.1
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		233.0	-58.3	3.0	-20.9	-1.3		0.0	0.0	0.0	6.7	25.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.5	-58.4	3.0	-16.6	-1.1		0.0	0.0	0.0	6.7	29.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.6	-59.4	3.4	-15.3	-1.1	-0.64	0.0	7.3	0.0	6.7	36.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.7	-59.4	3.4	-19.7	-1.3	-0.25	0.0	11.0	0.0	6.7	35.7
Motor & Pump P 1601 A	CNEL	96.3	2	225.3	-58.0	2.7	-18.6	-1.0		0.0	0.0	0.0	6.7	28.1
Motor & Pump P 1601 B	CNEL	96.3	2	224.9	-58.0	2.7	-18.5	-1.0		0.0	0.0	0.0	6.7	28.2
Motor & Pump P 1602 A	CNEL	96.3	2	224.4	-58.0	2.7	-18.3	-1.0		0.0	0.0	0.0	6.7	28.4
Motor & Pump P 1602 B	CNEL	96.5	2	224.1	-58.0	2.7	-17.8	-1.0		0.0	0.0	0.0	6.7	29.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.5	-58.2	3.1	-19.0	-1.1	-0.08	0.0	0.0	0.0	6.7	27.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.1	-58.4	3.1	-17.1	-1.0	-0.20	0.0	0.0	0.0	6.7	29.6
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.4	-58.5	3.1	-16.3	-0.9	-0.25	0.0	0.0	0.0	6.7	30.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.7	-58.4	3.0	-16.6	-1.0		0.0	0.0	0.0	6.7	30.3
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.4	-58.5	3.1	-16.4	-1.0	0.00	0.0	0.0	0.0	6.7	30.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.4	-58.6	3.2	-18.1	-1.0	-0.08	0.0	0.0	0.0	6.7	28.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.0	-58.6	3.2	-13.5	-1.0	-0.26	0.0	0.0	0.0	6.7	32.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.1	-58.7	3.2	-16.4	-1.0	-0.22	0.0	0.0	0.0	6.7	29.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.6	-58.7	3.2	-13.4	-0.9	-0.37	0.0	0.0	0.0	6.7	32.8	
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	286.0	-60.1	3.1	-11.8	-0.9	-0.24	0.0	0.0	0.0	6.7	40.8	
P-2 A/B	CNEL	98.5		246.2	-58.8	3.5	0.0	-1.2	-1.38	0.0	0.0	0.0	6.7	47.3	
P-50 A/B	CNEL	98.1		215.1	-57.6	3.3	-21.3	-0.8	-0.23	0.0	0.0	0.0	6.7	28.1	
P-51 A/B	CNEL	98.1		213.9	-57.6	3.3	-17.5	-0.7	-0.24	0.0	0.0	0.0	6.7	32.0	
P-060 A/B	CNEL	98.1		218.3	-57.8	3.4	-23.1	-0.9	-1.53	0.0	0.0	0.0	6.7	24.8	
P-63	CNEL	98.5		214.1	-57.6	3.2	0.0	-1.1	-1.00	0.0	0.6	0.0	6.7	49.3	
P-70 A/B	CNEL	98.1		216.8	-57.7	3.3	-22.4	-0.9	-1.50	0.0	0.0	0.0	6.7	25.6	
P-73 A/B	CNEL	98.5		241.8	-58.7	3.5	0.0	-1.2	-1.45	0.0	0.0	0.0	6.7	47.3	
P-251 A/B	CNEL	98.2		110.0	-51.8	2.5	0.0	-0.6	-0.29	0.0	0.0	0.0	6.7	54.7	
P-252 A/B	CNEL	98.2		120.7	-52.6	2.5	0.0	-0.7	-0.45	0.0	0.1	0.0	6.7	53.8	
P-253	CNEL	98.2		125.7	-53.0	2.6	0.0	-0.7	-0.67	0.0	0.0	0.0	6.7	53.1	
P-254 A/B	CNEL	98.2		117.7	-52.4	2.5	0.0	-0.7	-0.42	0.0	0.6	0.0	6.7	54.6	
P-255 A/B	CNEL	98.2		115.3	-52.2	2.5	0.0	-0.6	-0.41	0.0	0.2	0.0	6.7	54.3	
P-255 A/B	CNEL	98.2		105.6	-51.5	2.5	0.0	-0.6	-0.06	0.0	0.0	0.0	6.7	55.2	
P-256 A/B	CNEL	98.2		112.3	-52.0	2.5	0.0	-0.6	-0.40	0.0	0.2	0.0	6.7	54.6	
P-259 A/B	CNEL	98.2		107.8	-51.6	2.5	0.0	-0.6	-0.18	0.0	0.0	0.0	6.7	54.9	
P-260	CNEL	99.1		110.0	-51.8	2.5	0.0	-0.6	-0.24	0.0	0.1	0.0	6.7	55.7	
P-261 A/B	CNEL	98.0		100.5	-51.0	2.4	0.0	-0.6	-0.21	0.0	0.0	0.0	6.7	55.3	
P-262 A/B	CNEL	99.1		106.1	-51.5	2.5	0.0	-0.6	-0.23	0.0	0.8	0.0	6.7	56.8	
P-263 A/B	CNEL	99.4		108.0	-51.7	2.5	0.0	-0.6	-0.24	0.0	0.9	0.0	6.7	57.0	
P-270 A/B	CNEL	98.5		152.3	-54.6	2.6	0.0	-0.8	-0.12	0.0	0.0	0.0	6.7	52.2	
P-271 A/B	CNEL	98.2		124.9	-52.9	2.5	0.0	-0.7	-0.44	0.0	0.0	0.0	6.7	53.4	
P-272 A/B	CNEL	98.2		121.4	-52.7	2.5	0.0	-0.7	-0.43	0.0	0.0	0.0	6.7	53.6	
P-273 A/B	CNEL	98.5		149.3	-54.5	2.6	0.0	-0.8	-0.09	0.0	0.0	0.0	6.7	52.4	
P-275 A/B/C	CNEL	98.2		133.7	-53.5	2.6	0.0	-0.7	-0.75	0.0	0.0	0.0	6.7	52.5	
P-305	CNEL	99.3		141.3	-54.0	2.4	-14.7	-0.4	-0.10	0.0	0.0	0.0	6.7	39.2	
P-306	CNEL	100.8		151.0	-54.6	2.5	0.0	-0.8	-0.31	0.0	0.0	0.0	6.7	54.2	
P-309	CNEL	99.3		143.7	-54.1	2.4	-13.6	-0.5	-0.16	0.0	0.0	0.0	6.7	40.1	
P-328	CNEL	100.8		156.7	-54.9	2.5	0.0	-0.8	-0.44	0.0	0.0	0.0	6.7	53.8	
P-329	CNEL	100.8		154.0	-54.7	2.5	0.0	-0.8	-0.38	0.0	0.0	0.0	6.7	54.0	
P-353	CNEL	98.5		147.1	-54.3	2.5	-12.8	-0.5	-0.16	0.0	0.1	0.0	6.7	40.0	
P-358 A/B	CNEL	99.4		174.3	-55.8	2.8	0.0	-0.9	-0.63	0.0	0.0	0.0	6.7	51.5	
P-359 A/B	CNEL	99.4		172.6	-55.7	2.8	0.0	-0.9	-0.62	0.0	0.0	0.0	6.7	51.6	
P-360 A/B	CNEL	99.4		169.4	-55.6	2.7	-9.3	-0.6	-0.64	0.0	2.6	0.0	6.7	45.4	
P-361A	CNEL	98.1		225.5	-58.1	3.1	-3.2	-1.0	-1.52	0.0	0.9	0.0	6.7	45.0	
P-371 A/B	CNEL	98.0		179.8	-56.1	2.5	-0.1	-1.0		0.0	0.0	0.0	6.7	50.1	
P-373 A/B	CNEL	98.0		178.4	-56.0	2.6	-7.6	-0.7		0.0	2.2	0.0	6.7	45.1	
P-374 A/B	CNEL	98.0		178.7	-56.0	2.6	-7.2	-0.7		0.0	2.0	0.0	6.7	45.4	
P-375 A/B	CNEL	98.0		179.9	-56.1	2.6	0.0	-0.9		0.0	0.0	0.0	6.7	50.2	
P-376	CNEL	98.0		178.9	-56.0	2.6	-5.0	-0.8		0.0	1.4	0.0	6.7	46.8	
P-376 A/B	CNEL	98.0		178.2	-56.0	2.6	-7.7	-0.7		0.0	1.6	0.0	6.7	44.5	
P-377	CNEL	98.0		179.3	-56.1	2.6	-3.7	-0.8		0.0	1.1	0.0	6.7	47.8	
P-1101 A	CNEL	98.9		241.2	-58.6	3.2	-7.1	-0.8	-1.54	0.0	0.0	0.0	6.7	40.7	
P-1103	CNEL	98.9		239.8	-58.6	3.1	-7.3	-0.8	-1.54	0.0	0.0	0.0	6.7	40.5	
P-1105 A/B/C	CNEL	98.9		246.7	-58.8	3.2	-6.6	-0.8	-1.53	0.0	0.0	0.0	6.7	41.0	
P-1800	CNEL	98.9		265.7	-59.5	3.6	-4.9	-1.3		0.0	2.6	0.0	6.7	46.1	
P-1801	CNEL	98.9		315.5	-61.0	3.9	-4.7	-1.5		0.0	0.0	0.0	6.7	42.3	
P-1802	CNEL	98.9		315.5	-61.0	3.9	-4.6	-1.5		0.0	0.0	0.0	6.7	42.3	
P-1803	CNEL	99.1		240.3	-58.6	3.6	-4.8	-1.2	-1.81	0.0	3.1	0.0	6.7	46.0	
P-1804	CNEL	99.1		246.2	-58.8	3.6	-3.1	-1.0	-1.58	0.0	0.1	0.0	6.7	45.0	
P-1805	CNEL	99.1		249.2	-58.9	3.6	-2.7	-1.1	-1.57	0.0	0.2	0.0	6.7	45.4	
P-1806	CNEL	99.1		218.7	-57.8	3.4	-3.6	-1.0	-1.38	0.0	0.0	0.0	6.7	45.4	
P-1809 A	CNEL	98.9		278.2	-59.9	3.7	-6.5	-1.1		0.0	2.1	0.0	6.7	43.9	
P-1810 A/B/C	CNEL	99.0		255.9	-59.2	3.7	-4.3	-1.1	-1.59	0.0	1.7	0.0	6.7	45.0	
P-1811 A/B	CNEL	99.1		224.7	-58.0	3.5	-3.6	-1.0	-1.52	0.0	0.0	0.0	6.7	45.0	
P-1811 A/B	CNEL	99.1		252.8	-59.0	3.7	-4.5	-1.3	-1.53	0.0	2.0	0.0	6.7	45.0	
P-1847 A/B	CNEL	99.4		269.8	-59.6	3.9	0.0	-1.3	-0.44	0.0	0.7	0.0	6.7	49.2	
P-1849 A/B	CNEL	99.4		275.0	-59.8	3.9	0.0	-1.4	-0.37	0.0	0.7	0.0	6.7	49.2	
P-1853	CNEL	99.1		101.7	-51.1	2.4	0.0	-0.6		0.0	0.0	0.0	6.7	56.4	
Piping Furnace Tanks	CNEL	87.1	72	214.2	-57.6	2.5	-0.1	-7.0	-0.11	0.0	1.3	0.0	6.7	32.7	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	193.8	-56.7	2.4	-0.3	-6.5	0.00	0.0	0.2	0.0	6.7	44.1	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	221.2	-57.9	2.6	-12.5	-1.7		0.0	0.1	0.0	6.7	51.9	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	219.8	-57.8	2.6	-15.4	-4.7		0.0	0.4	0.0	6.7	47.0	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	335.8	-61.5	2.9	-21.5	-1.2		0.0	0.8	0.0	6.7	36.7	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	324.8	-61.2	2.8	-18.6	-1.0		0.0	8.4	0.0	6.7	48.2	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	297.2	-60.5	2.7	-13.8	-1.0		0.0	0.0	0.0	6.7	38.2	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	305.4	-60.7	2.8	-8.4	-1.2		0.0	0.1	0.0	6.7	50.4	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	288.2	-60.2	2.7	-7.0	-1.2		0.0	0.1	0.0	6.7	45.0	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	303.4	-60.6	2.7	-12.2	-1.0		0.0	0.0	0.0	6.7	39.3	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	288.7	-60.2	2.7	-1.4	-1.4	-0.18	0.0	0.0	0.0	6.7	52.9	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	288.6	-60.2	2.7	-8.6	-1.2	-0.03	0.0	0.8	0.0	6.7	46.3	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	312.9	-60.9	2.4	-5.0	-1.5		0.0	0.4	0.0	6.7	55.2	
PSA Pipe 3" Lagging	CNEL	80.6	11	221.4	-57.9	2.4	-16.2	-1.3		0.0	0.2	0.0	6.7	14.5	
PSA Skid Additional Piping w NC	CNEL	116.6	57	221.1	-57.9	2.6	-13.1	-1.7		0.0	0.1	0.0	6.7	53.3	
Reformer-Burner Reformer East	CNEL	97.3	269	233.6	-58.4	2.4	-20.4	-1.1		0.0	0.0	0.0	6.7	29.5	
Reformer-Burner Reformer North	CNEL	95.9	192	224.6	-58.0	2.5	-0.6	-1.8		0.0	0.0	0.0	6.7	44.6	
Reformer-Burner Reformer South	CNEL	95.8	191	228.6	-58.2	2.5	-11.8	-0.9		0.0	2.2	0.0	6.7	39.3	
Reformer-Burner Reformer West	CNEL	97.3	268	220.4	-57.9	2.5	-0.7	-1.8	-0.03	0.0	0.0	0.0	6.7	49.1	
RFG A from battery to process	CNEL	99.4	87	195.5	-56.8	2.4	-0.4	-6.7	-0.10	0.0	0.2	0.0	6.7	44.8	
RFG A from battery to process w NC	CNEL	115.2	42	222.6	-57.9	2.6	-14.0	-5.0		0.0	0.3	0.0	6.7	47.9	
Stack Noise	CNEL	108.4		240.7	-58.6	2.3	-0.7	-1.8		-7.3	0.0	0.0	6.7	48.9	
Steam Turbine-Facade 01	CNEL	99.6	29	202.8	-57.1	2.7	-5.6	-4.1		0.0	0.0	0.0	6.7	42.2	
Steam Turbine-Facade 02	CNEL	96.2	13	204.5	-57.2	2.7	-5.5	-4.1		0.0	2.7	0.0	6.7	41.5	
Steam Turbine-Facade 03	CNEL	99.6	29	206.5	-57.3	2.7	-21.6	-2.4		0.0	9.7	0.0	6.7	37.5	
Steam Turbine-Facade 04	CNEL	96.2	13	204.8	-57.2	2.7	-18.1	-2.4		0.0	0.9	0.0	6.7	28.8	
Steam Turbine-Roof 01	CNEL	99.7	30	204.6	-57.2	2.6	-4.6	-4.4		0.0	2.5	0.0	6.7	45.3	
Tank Farm Pump 1	CNEL	99.0	3	274.9	-59.8	3.6	-0.1	-2.1	-0.87	0.0	0.8	0.0	6.7	47.2	
Tank Farm Pump 2	CNEL	99.0	3	290.7	-60.3	3.7	0.0	-2.1	-0.62	0.0	0.0	0.0	6.7	46.4	
Tank Farm Pump 3	CNEL	99.0	3	295.2	-60.4	3.7	0.0	-2.2	-0.55	0.0	0.0	0.0	6.7	46.3	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	176.7	-55.9	1.2	-0.2	-2.2		0.0	0.3	-13.8	0.0	41.8	
XF-1502 Splitter Area 1	CNEL	104.5		238.3	-58.5	2.2	-14.9	-0.8	0.00	-2.8	0.0	0.0	6.7	36.3	
XF-1502 Splitter Area 2	CNEL	104.5		234.7	-58.4	2.2	-17.2	-0.9	0.00	-2.8	0.0	0.0	6.7	34.1	
XF-1504 Splitter Area 1	CNEL	104.5		237.0	-58.5	2.2	-3.8	-1.5	-0.08	-4.1	0.0	0.0	6.7	45.5	
XF-1504 Splitter Area 2	CNEL	104.5		233.4	-58.4	2.2	-4.2	-1.5	-0.08	-4.0	0.0	0.0	6.7	45.2	
XF 251, 250, 271, 270	CNEL	101.1	128	128.5	-53.2	2.0	0.0	-0.6	-0.39	-3.1	0.0	0.0	6.7	52.6	
XF 260, 261A, 261 B	CNEL	99.9	97	98.5	-50.9	1.8	0.0	-0.5	-0.02	-3.1	0.0	0.0	6.7	53.8	
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	1.9	-1.1	-1.0	-0.16	-2.9	0.1	0.0	6.7	53.7	
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	2.3	-5.1	-1.1	-0.21	-3.5	0.1	0.0	6.7	51.3	
XF 335-1, XF 335-2	CNEL	113.4	54	301.1	-60.6	2.0	-3.1	-1.4	-0.13	-3.1	0.2	0.0	6.7	54.0	
XF 353A/B	CNEL	95.4	35	177.7	-56.0	2.1	-2.4	-0.6	-0.03	-2.9	0.1	0.0	6.7	42.4	
XF 353A/B	CNEL	95.4	35	175.2	-55.9	2.1	-0.1	-0.7	0.00	-3.2	0.0	0.0	6.7	44.3	
XF 354A/B	CNEL	95.4	35	142.8	-54.1	1.8	-5.3	-0.4	0.00	-2.6	0.2	0.0	6.7	41.9	
XF 503	CNEL	113.0	21	236.9	-58.5	1.9	-1.6	-2.7	-0.87	-3.9	0.0	0.0	6.7	54.0	
XF - 1601	CNEL	96.6		223.7	-58.0	2.1	0.0	-0.8		-2.6	0.0	0.0	6.7	44.1	
XF - 1602	CNEL	96.6		222.4	-57.9	2.1	0.0	-0.7		-2.6	0.0	0.0	6.7	44.1	
XF Module 1510	CNEL	108.3		232.9	-58.3	2.1	-5.3	-1.4	-0.10	-4.0	0.0	0.0	6.7	48.0	
XF Module 1519	CNEL	109.0		237.9	-58.5	2.1	-5.2	-1.4	-0.22	-4.0	0.0	0.0	6.7	48.5	
xxxx xxxx xxxx xxxx	CNEL		606								0.5			28.9	
xxxx xxxx xxxx xxxx	CNEL		606								0.5			28.8	
xxxx xxxx xxxx xxxx	CNEL		917								1.5			45.9	
xxxx xxxx xxxx xxxx	CNEL		917								1.7			45.8	
xxxx xxxx xxxx xxxx	CNEL		608								1.2			32.1	
xxxx xxxx xxxx xxxx	CNEL		608								1.3			32.1	
xxxx xxxx xxxx xxxx	CNEL		228								1.6			31.1	
xxxx xxxx xxxx xxxx	CNEL		520								1.4			28.6	
xxxx xxxx xxxx xxxx	CNEL		1341								1.4			47.4	
xxxx xxxx xxxx xxxx	CNEL		450								4.1			36.1	
Receiver SS-5 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)				Leq,D 66.6 dB(A)		Ld 7-19 dB(A)		Leq,N 66.0 dB(A)		Le 19-22 dB(A)		CNEL 72.8 dB(A)		Lmax day hr dB(A)	Ld 7-
ID Fan Motor	CNEL	104.4	2	240.0	-58.6	2.8	-17.3	-1.3		0.0	1.6	0.0	6.7	38.2	
18-1855 A/B	CNEL	98.8		160.2	-55.1	2.7	0.0	-0.8	-0.47	0.0	0.0	0.0	6.7	51.7	
18-1856 A/B	CNEL	98.8		164.0	-55.3	2.7	0.0	-0.9	-0.49	0.0	0.0	0.0	6.7	51.5	
18-1857 A/B	CNEL	98.8		156.8	-54.9	2.7	0.0	-0.8	-0.46	0.0	0.0	0.0	6.7	51.9	
18-1858 A/B	CNEL	98.8		154.5	-54.8	2.7	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	52.1	
18-PK 1802 Air Compressor Package	CNEL	103.1		158.3	-55.0	2.7	0.0	-0.5	-0.87	0.0	0.0	0.0	6.7	56.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	89.5	-50.0	1.3	-0.1	-1.8		0.0	0.2	-4.8	1.0	54.8	
Air Compressor C 1	CNEL	110.0	5	294.9	-60.4	2.9	-3.5	-1.1	-0.57	0.0	1.7	0.0	6.7	55.8	
Air Compressor Pump	CNEL	100.3		126.6	-53.0	2.5	-18.8	-1.7		0.0	7.4	0.0	6.7	43.4	
Blower F 401	CNEL	113.0		191.1	-56.6	2.3	-12.3	-0.2		0.0	3.9	0.0	6.7	56.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	157.7	-54.9	2.4	-4.7	-0.7		0.0	0.0	0.0	6.7	47.3	
Boiler Feed Water Pump A	CNEL	97.1	3	184.6	-56.3	2.7	-3.5	-0.9	-0.47	0.0	0.0	0.0	6.7	45.3	
Boiler Feed Water Pump B	CNEL	97.1	3	181.7	-56.2	2.7	-2.2	-1.0	-0.46	0.0	0.0	0.0	6.7	46.6	
C370 A Motor	CNEL	103.6	3	170.8	-55.6	2.6	-5.8	-1.0		0.0	1.5	0.0	6.7	51.9	
C370 B Motor	CNEL	108.6	3	171.3	-55.7	2.7	-6.4	-1.0		0.0	2.0	0.0	6.7	56.8	
C370A	CNEL	103.8	5	175.3	-55.9	2.7	-5.2	-1.2		0.0	1.3	0.0	6.7	52.3	
C370B	CNEL	103.8	5	175.8	-55.9	2.7	-5.3	-1.1		0.0	1.5	0.0	6.7	52.3	
C-270 A	CNEL	106.3	6	143.5	-54.1	2.6	-6.4	-0.9	-0.17	0.0	0.1	0.0	6.7	54.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-270 B	CNEL	106.3	6	139.1	-53.9	2.5	-6.7	-0.8	-0.05	0.0	0.1	0.0	6.7	54.2
C-270 C	CNEL	106.3	6	134.8	-53.6	2.4	-8.6	-0.6		0.0	0.1	0.0	6.7	52.7
C-301 Compressor	CNEL	106.8	3	169.6	-55.6	2.6	-5.4	-1.0	-0.56	0.0	0.0	0.0	6.7	53.6
C-301 Motor	CNEL	106.8	4	166.4	-55.4	2.6	-4.4	-1.5	-0.48	0.0	0.0	0.0	6.7	54.3
C-351 Compressor	CNEL	106.8	4	163.4	-55.3	2.6	-4.3	-1.0	-0.57	0.0	0.0	0.0	6.7	54.9
C-351 Motor	CNEL	106.8	5	161.3	-55.1	2.5	-4.3	-2.0	-0.38	0.0	0.0	0.0	6.7	54.2
Cars Pumping 6 times in during delivery	CNEL	134.7	361	93.6	-50.4	0.6	-0.3	-0.3		0.0	0.2	-35.6	0.0	49.0
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	241.9	-58.7	2.4	-11.1	-1.0	-0.66	2.9	3.1	0.0	6.7	48.4
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	243.9	-58.7	2.5	-2.6	-1.8	-1.13	0.0	0.6	0.0	6.7	46.0
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	252.7	-59.0	2.4	-15.0	-0.6	-0.89	-7.8	12.0	0.0	6.7	44.2
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	245.5	-58.8	2.3	-9.9	-1.0	-0.60	1.8	0.0	0.0	6.7	51.1
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	242.8	-58.7	2.4	-8.0	-0.9	-1.00	1.5	0.5	0.0	6.7	46.3
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.4	-59.1	2.3	-14.1	-0.7	-0.36	-7.4	0.1	0.0	6.7	27.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	212.7	-57.5	2.6	-12.2	-0.4		4.3	0.0	0.0	6.7	41.3
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	216.7	-57.7	2.6	-18.1	-0.6		-5.4	0.0	0.0	6.7	25.3
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	205.6	-57.3	2.5	0.0	-1.3		4.7	0.0	0.0	6.7	55.9
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	209.7	-57.4	2.5	-19.3	-0.6		-4.4	0.0	0.0	6.7	28.1
Cooling Tower M 512	CNEL	95.7		208.6	-57.4	2.6	-15.3	-0.7		0.0	1.0	0.0	6.7	32.6
Cooling Tower M 513	CNEL	95.7		209.0	-57.4	2.6	-14.1	-0.7		0.0	0.8	0.0	6.7	33.6
Cooling Tower M 514	CNEL	95.7		208.0	-57.4	2.6	-16.1	-0.7		0.0	1.2	0.0	6.7	32.0
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	204.0	-57.2	2.4	0.0	-0.8		-2.9	0.1	0.0	6.7	44.1
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	243.1	-58.7	2.8	-2.3	-0.1		0.0	0.0	0.0	6.7	43.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	244.7	-58.8	2.8	-3.1	-0.1		0.0	0.3	0.0	6.7	41.0
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	242.6	-58.7	2.8	-2.3	-0.1		0.0	0.0	0.0	6.7	41.9
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	240.6	-58.6	2.8	-4.4	-0.2		0.0	0.0	0.0	6.7	39.5
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	242.2	-58.7	2.8	-4.3	-0.2		0.0	0.4	0.0	6.7	42.1
FD Motor	CNEL	103.3	2	243.5	-58.7	2.8	-4.3	-2.7		0.0	0.1	0.0	6.7	47.1
Feed Compressor -B Motor	CNEL	103.8	5	167.3	-55.5	2.7	-6.2	-1.6	-0.42	0.0	0.0	0.0	6.7	49.5
Feed Compressor-A Compressor	CNEL	104.0	5	169.1	-55.6	2.7	-5.7	-1.1	-0.07	0.0	0.0	0.0	6.7	51.0
Feed Compressor-A Motor	CNEL	103.8	6	164.0	-55.3	2.7	-5.7	-1.6	-0.14	0.0	0.0	0.0	6.7	50.4
Feed Compressor-B Compressor	CNEL	104.0	7	172.9	-55.7	2.7	-5.5	-1.1	-0.40	0.0	0.0	0.0	6.7	50.6
H2S Compressor 18-C-271	CNEL	105.3	6	262.5	-59.4	2.6	-3.2	-1.8	-0.48	0.0	0.9	0.0	6.7	50.6
Heater # 5-Heater	CNEL	91.1	13	156.1	-54.9	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	47.6
Heater # 5-Heater	CNEL	91.1	13	151.0	-54.6	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	47.8
Heater # 5-Heater	CNEL	91.1	13	161.1	-55.1	2.4	0.0	-0.8		0.0	0.0	0.0	6.7	47.3
Hydro Heater H-402	CNEL	98.1		219.0	-57.8	2.6	-2.1	-0.8		0.0	0.0	0.0	6.7	46.6
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	238.6	-58.5	2.9	-8.1	-0.1		0.0	0.0	0.0	6.7	29.8
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	236.5	-58.5	2.9	-3.6	-0.1		0.0	0.0	0.0	6.7	34.7
ID Fan-ID Fan - North	CNEL	92.2	8	238.5	-58.5	2.9	-8.5	-0.1		0.0	0.1	0.0	6.7	34.8
ID Fan-ID Fan - North 2	CNEL	91.4	7	238.6	-58.5	2.9	-8.1	-0.1		0.0	0.1	0.0	6.7	34.4
ID Fan-ID Fan - South	CNEL	92.3	9	235.5	-58.4	2.9	0.0	-0.1	-0.14	0.0	0.0	0.0	6.7	43.2
ID Fan-ID Fan - South 2	CNEL	91.4	7	237.3	-58.5	2.9	-0.4	-0.1	-0.12	0.0	0.0	0.0	6.7	41.8
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	237.3	-58.5	2.9	-4.6	-0.1		0.0	0.0	0.0	6.7	40.3
Motor & Pump P 56A/B	CNEL	93.7		236.8	-58.5	2.6	-2.8	-1.8	-0.31	0.0	0.5	0.0	6.7	40.1
Motor & Pump P 120/121	CNEL	96.2	2	282.9	-60.0	2.7	-15.5	-1.0	-0.39	0.0	0.0	0.0	6.7	28.7
Motor & Pump P 211/212	CNEL	93.7		224.6	-58.0	2.5	-8.2	-1.2	-0.73	0.0	0.0	0.0	6.7	34.6
Motor & Pump P 215/214	CNEL	94.6		229.0	-58.2	2.5	-4.5	-1.7	-0.83	0.0	0.0	0.0	6.7	38.6
Motor & Pump P 216	CNEL	98.3		228.6	-58.2	2.4	-4.8	-1.7	-0.73	0.0	1.8	0.0	6.7	43.7
Motor & Pump P 217/218	CNEL	93.7		226.3	-58.1	2.5	-8.8	-1.2	-0.78	0.0	0.0	0.0	6.7	34.0
Motor & Pump P 300	CNEL	97.1	2	290.1	-60.2	2.8	-13.6	-0.9	-0.52	0.0	4.1	0.0	6.7	35.3
Motor & Pump P 301	CNEL	102.1	2	288.5	-60.2	2.8	-14.0	-0.9	-0.52	0.0	5.2	0.0	6.7	41.1
Motor & Pump P 302	CNEL	97.1	2	291.7	-60.3	2.8	-13.3	-0.9	-0.52	0.0	1.4	0.0	6.7	33.0
Motor & Pump P 303	CNEL	97.1	2	293.1	-60.3	2.8	-13.0	-0.9	-0.52	0.0	0.9	0.0	6.7	32.8
Motor & Pump P 305	CNEL	97.5	2	294.4	-60.4	2.8	-12.7	-0.9	-0.53	0.0	1.0	0.0	6.7	33.5
Motor & Pump P 306	CNEL	112.6	4	302.6	-60.6	2.8	-15.6	-0.8	-0.33	0.0	0.4	0.0	6.7	45.2
Motor & Pump P 307	CNEL	102.1	2	284.2	-60.1	2.7	-10.9	-1.0	-0.54	0.0	0.4	0.0	6.7	39.5
Motor & Pump P 309	CNEL	97.5	2	295.7	-60.4	2.8	-12.4	-0.9	-0.53	0.0	0.4	0.0	6.7	33.2
Motor & Pump P 312	CNEL	101.5	2	264.7	-59.4	2.6	-7.6	-0.9	-0.99	0.0	3.5	0.0	6.7	45.4
Motor & Pump P 313	CNEL	101.5	2	263.2	-59.4	2.6	-5.9	-0.9	-1.02	0.0	2.7	0.0	6.7	46.2
Motor & Pump P 315	CNEL	102.9	2	257.6	-59.2	2.6	-3.1	-1.1	-1.14	0.0	0.5	0.0	6.7	48.1
Motor & Pump P 316	CNEL	102.9	2	255.9	-59.2	2.5	-3.0	-1.1	-1.18	0.0	1.0	0.0	6.7	48.7
Motor & Pump P 317	CNEL	102.9	2	254.1	-59.1	2.5	-2.8	-1.1	-1.22	0.0	1.1	0.0	6.7	49.0
Motor & Pump P 318	CNEL	100.2	1	259.1	-59.3	2.6	-3.0	-1.1	-1.08	0.0	0.1	0.0	6.7	45.1
Motor & Pump P 319	CNEL	100.2	1	260.4	-59.3	2.6	-4.3	-1.1	-1.06	0.0	1.1	0.0	6.7	44.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 327	CNEL	111.2	3	310.1	-60.8	3.0	-21.6	-1.7	-0.19	0.0	3.7	0.0	6.7	40.3
Motor & Pump P 328	CNEL	109.9	5	297.3	-60.5	2.7	-13.5	-0.9	-0.39	0.0	0.5	0.0	6.7	44.6
Motor & Pump P 329	CNEL	110.2	5	299.9	-60.5	2.8	-15.3	-1.0	-0.30	0.0	0.4	0.0	6.7	42.9
Motor & Pump P 451	CNEL	93.7		212.3	-57.5	2.5	-9.0	-1.1		0.0	0.0	0.0	6.7	35.2
Motor & Pump P 453	CNEL	93.7		200.6	-57.0	2.5	0.0	-1.8		0.0	0.0	0.0	6.7	44.0
Motor & Pump P 454	CNEL	93.7		213.3	-57.6	2.5	-8.8	-1.0		0.0	0.0	0.0	6.7	35.5
Motor & Pump P 457	CNEL	93.7		199.2	-57.0	2.5	0.0	-1.8		0.0	0.0	0.0	6.7	44.0
Motor & Pump P 458	CNEL	93.7		211.7	-57.5	2.5	-2.9	-1.6		0.0	0.0	0.0	6.7	40.8
Motor & Pump P 459	CNEL	93.7		214.2	-57.6	2.5	-8.1	-1.1		0.0	0.0	0.0	6.7	36.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		233.0	-58.3	2.6	-20.9	-1.3		0.0	0.0	0.0	6.7	25.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		234.6	-58.4	2.6	-16.3	-1.0		0.0	0.0	0.0	6.7	29.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.6	-59.4	2.7	-14.2	-1.1	-0.64	0.0	6.5	0.0	6.7	35.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		264.7	-59.4	2.7	-19.6	-1.3	-0.25	0.0	11.0	0.0	6.7	35.1
Motor & Pump P 1601 A	CNEL	96.3	2	225.3	-58.0	2.7	-16.2	-1.2		0.0	0.0	0.0	6.7	30.3
Motor & Pump P 1601 B	CNEL	96.3	2	225.0	-58.0	2.7	-16.1	-1.2		0.0	0.0	0.0	6.7	30.3
Motor & Pump P 1602 A	CNEL	96.3	2	224.5	-58.0	2.7	-16.0	-1.2		0.0	0.0	0.0	6.7	30.4
Motor & Pump P 1602 B	CNEL	96.5	2	224.2	-58.0	2.7	-15.7	-1.2		0.0	0.0	0.0	6.7	31.0
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	230.5	-58.2	2.7	-18.7	-1.0	-0.08	0.0	0.0	0.0	6.7	27.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	235.2	-58.4	2.7	-16.8	-1.0	-0.20	0.0	0.0	0.0	6.7	29.6
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	237.5	-58.5	2.7	-15.9	-0.9	-0.25	0.0	0.0	0.0	6.7	30.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	235.8	-58.4	2.6	-16.3	-1.0		0.0	0.0	0.0	6.7	30.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	237.5	-58.5	2.6	-16.0	-1.0	0.00	0.0	0.0	0.0	6.7	30.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	240.5	-58.6	2.7	-17.6	-1.0	-0.08	0.0	0.0	0.0	6.7	28.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	241.1	-58.6	2.7	-13.0	-1.0	-0.26	0.0	0.0	0.0	6.7	32.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	242.2	-58.7	2.7	-16.4	-1.0	-0.22	0.0	0.0	0.0	6.7	29.4
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	241.7	-58.7	2.7	-12.9	-0.9	-0.37	0.0	0.0	0.0	6.7	32.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	286.0	-60.1	2.7	-10.6	-1.0	-0.24	0.0	0.0	0.0	6.7	41.5
P-2 A/B	CNEL	98.5		246.3	-58.8	2.7	0.0	-1.2	-1.38	0.0	0.0	0.0	6.7	46.4
P-50 A/B	CNEL	98.1		215.2	-57.6	2.7	-21.2	-0.8	-0.23	0.0	0.0	0.0	6.7	27.5
P-51 A/B	CNEL	98.1		213.9	-57.6	2.7	-17.5	-0.7	-0.24	0.0	0.0	0.0	6.7	31.4
P-060 A/B	CNEL	98.1		218.3	-57.8	2.7	-23.1	-0.9	-1.53	0.0	0.0	0.0	6.7	24.1
P-63	CNEL	98.5		214.2	-57.6	2.6	0.0	-1.1	-1.00	0.0	0.6	0.0	6.7	48.7
P-70 A/B	CNEL	98.1		216.9	-57.7	2.7	-22.3	-0.9	-1.50	0.0	0.0	0.0	6.7	25.0
P-73 A/B	CNEL	98.5		241.9	-58.7	2.7	0.0	-1.2	-1.45	0.0	0.0	0.0	6.7	46.5
P-251 A/B	CNEL	98.2		110.2	-51.8	2.5	0.0	-0.6	-0.29	0.0	0.0	0.0	6.7	54.7
P-252 A/B	CNEL	98.2		120.9	-52.6	2.6	0.0	-0.7	-0.45	0.0	0.1	0.0	6.7	53.8
P-253	CNEL	98.2		125.8	-53.0	2.6	0.0	-0.7	-0.67	0.0	0.0	0.0	6.7	53.1
P-254 A/B	CNEL	98.2		117.9	-52.4	2.5	0.0	-0.6	-0.42	0.0	0.6	0.0	6.7	54.5
P-255 A/B	CNEL	98.2		115.5	-52.2	2.5	0.0	-0.6	-0.41	0.0	0.3	0.0	6.7	54.4
P-255 A/B	CNEL	98.2		105.8	-51.5	2.5	0.0	-0.6	-0.06	0.0	0.0	0.0	6.7	55.3
P-256 A/B	CNEL	98.2		112.5	-52.0	2.5	0.0	-0.6	-0.40	0.0	0.3	0.0	6.7	54.6
P-259 A/B	CNEL	98.2		108.0	-51.7	2.5	0.0	-0.6	-0.18	0.0	0.0	0.0	6.7	54.9
P-260	CNEL	99.1		110.2	-51.8	2.5	0.0	-0.6	-0.24	0.0	0.1	0.0	6.7	55.7
P-261 A/B	CNEL	98.0		100.7	-51.1	2.5	0.0	-0.6	-0.21	0.0	0.0	0.0	6.7	55.3
P-262 A/B	CNEL	99.1		106.3	-51.5	2.5	0.0	-0.6	-0.23	0.0	0.8	0.0	6.7	56.8
P-263 A/B	CNEL	99.4		108.2	-51.7	2.5	0.0	-0.6	-0.24	0.0	0.9	0.0	6.7	57.0
P-270 A/B	CNEL	98.5		152.4	-54.7	2.6	0.0	-0.8	-0.12	0.0	0.0	0.0	6.7	52.2
P-271 A/B	CNEL	98.2		125.1	-52.9	2.6	0.0	-0.7	-0.44	0.0	0.0	0.0	6.7	53.4
P-272 A/B	CNEL	98.2		121.5	-52.7	2.6	0.0	-0.7	-0.43	0.0	0.0	0.0	6.7	53.6
P-273 A/B	CNEL	98.5		149.4	-54.5	2.6	0.0	-0.8	-0.09	0.0	0.0	0.0	6.7	52.4
P-275 A/B/C	CNEL	98.2		133.9	-53.5	2.6	0.0	-0.7	-0.75	0.0	0.0	0.0	6.7	52.5
P-305	CNEL	99.3		141.5	-54.0	2.5	-14.4	-0.4	-0.10	0.0	0.0	0.0	6.7	39.6
P-306	CNEL	100.8		151.1	-54.6	2.5	0.0	-0.8	-0.31	0.0	0.0	0.0	6.7	54.3
P-309	CNEL	99.3		143.8	-54.1	2.5	-13.2	-0.5	-0.16	0.0	0.0	0.0	6.7	40.5
P-328	CNEL	100.8		156.8	-54.9	2.5	0.0	-0.8	-0.44	0.0	0.0	0.0	6.7	53.8
P-329	CNEL	100.8		154.1	-54.7	2.5	0.0	-0.8	-0.38	0.0	0.0	0.0	6.7	54.0
P-353	CNEL	98.5		147.2	-54.3	2.5	-12.5	-0.5	-0.16	0.0	0.1	0.0	6.7	40.3
P-358 A/B	CNEL	99.4		174.4	-55.8	2.6	0.0	-0.9	-0.63	0.0	0.0	0.0	6.7	51.3
P-359 A/B	CNEL	99.4		172.7	-55.7	2.6	0.0	-0.9	-0.62	0.0	0.0	0.0	6.7	51.4
P-360 A/B	CNEL	99.4		169.5	-55.6	2.6	-9.0	-0.6	-0.64	0.0	2.4	0.0	6.7	45.3
P-361A	CNEL	98.1		225.5	-58.1	2.7	-3.1	-1.0	-1.52	0.0	0.9	0.0	6.7	44.6
P-371 A/B	CNEL	98.0		179.9	-56.1	2.6	0.0	-0.9		0.0	0.0	0.0	6.7	50.2

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-373 A/B	CNEL	98.0		178.5	-56.0	2.6	-6.5	-0.7		0.0	1.6	0.0	6.7	45.7
P-374 A/B	CNEL	98.0		178.8	-56.0	2.6	-6.1	-0.7		0.0	1.5	0.0	6.7	45.9
P-375 A/B	CNEL	98.0		180.0	-56.1	2.6	0.0	-0.9		0.0	0.0	0.0	6.7	50.3
P-376	CNEL	98.0		179.0	-56.1	2.6	-4.3	-0.9		0.0	1.1	0.0	6.7	47.2
P-376 A/B	CNEL	98.0		178.3	-56.0	2.6	-6.6	-0.7		0.0	1.8	0.0	6.7	45.8
P-377	CNEL	98.0		179.4	-56.1	2.6	-3.2	-0.8		0.0	0.9	0.0	6.7	48.1
P-1101 A	CNEL	98.9		241.2	-58.6	2.7	-5.6	-0.9	-1.52	0.0	0.0	0.0	6.7	41.7
P-1103	CNEL	98.9		239.8	-58.6	2.7	-5.7	-0.9	-1.53	0.0	0.0	0.0	6.7	41.6
P-1105 A/B/C	CNEL	98.9		246.7	-58.8	2.7	-5.0	-0.9	-1.52	0.0	0.0	0.0	6.7	42.0
P-1800	CNEL	98.9		265.8	-59.5	2.9	-4.8	-1.3		0.0	2.7	0.0	6.7	45.6
P-1801	CNEL	98.9		315.5	-61.0	3.3	-4.6	-1.6		0.0	0.0	0.0	6.7	41.8
P-1802	CNEL	98.9		315.6	-61.0	3.3	-4.7	-1.5		0.0	0.0	0.0	6.7	41.7
P-1803	CNEL	99.1		240.4	-58.6	2.7	-4.7	-1.2	-1.81	0.0	3.0	0.0	6.7	45.2
P-1804	CNEL	99.1		246.3	-58.8	2.8	-2.5	-1.0	-1.57	0.0	0.1	0.0	6.7	44.8
P-1805	CNEL	99.1		249.2	-58.9	2.8	-2.1	-1.1	-1.56	0.0	0.2	0.0	6.7	45.0
P-1806	CNEL	99.1		218.8	-57.8	2.7	-3.6	-1.0	-1.38	0.0	0.0	0.0	6.7	44.7
P-1809 A	CNEL	98.9		278.3	-59.9	3.0	-5.0	-1.3		0.0	1.8	0.0	6.7	44.2
P-1810 A/B/C	CNEL	99.0		256.0	-59.2	2.9	-3.9	-1.1	-1.58	0.0	2.1	0.0	6.7	44.9
P-1811 A/B	CNEL	99.1		224.8	-58.0	2.7	-3.6	-1.0	-1.52	0.0	0.0	0.0	6.7	44.4
P-1811 A/B	CNEL	99.1		252.9	-59.1	2.8	-3.9	-1.5	-1.52	0.0	1.9	0.0	6.7	44.5
P-1847 A/B	CNEL	99.4		269.9	-59.6	3.1	0.0	-1.3	-0.44	0.0	0.7	0.0	6.7	48.4
P-1849 A/B	CNEL	99.4		275.1	-59.8	3.1	0.0	-1.3	-0.37	0.0	0.7	0.0	6.7	48.4
P-1853	CNEL	99.1		101.9	-51.2	2.4	0.0	-0.6		0.0	0.0	0.0	6.7	56.4
Piping Furnace Tanks	CNEL	87.1	72	214.2	-57.6	2.6	-0.2	-6.6		0.0	1.4	0.0	6.7	33.4
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	193.9	-56.7	2.5	-1.1	-5.9	0.00	0.0	0.2	0.0	6.7	43.9
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	221.2	-57.9	2.7	-11.9	-1.7		0.0	0.1	0.0	6.7	52.6
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	219.9	-57.8	2.7	-14.7	-4.8		0.0	0.3	0.0	6.7	47.6
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	335.8	-61.5	2.7	-21.3	-1.2		0.0	0.9	0.0	6.7	36.8
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	324.8	-61.2	2.7	-18.5	-1.0		0.0	8.5	0.0	6.7	48.3
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	297.1	-60.5	2.7	-13.8	-1.0		0.0	0.0	0.0	6.7	38.3
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	305.3	-60.7	2.7	-7.9	-1.3		0.0	0.1	0.0	6.7	50.7
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	288.2	-60.2	2.7	-6.3	-1.3		0.0	0.1	0.0	6.7	45.7
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	303.4	-60.6	2.7	-12.1	-1.0		0.0	0.0	0.0	6.7	39.4
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	288.7	-60.2	2.7	-1.0	-1.5	-0.11	0.0	0.0	0.0	6.7	53.2
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	288.6	-60.2	2.7	-8.0	-1.2		0.0	1.0	0.0	6.7	47.0
Pre-Treat Train-Roof 01	CNEL	113.1	2037	312.8	-60.9	2.6	-4.9	-1.5		0.0	0.3	0.0	6.7	55.4
PSA Pipe 3" Lagging	CNEL	80.6	11	221.4	-57.9	2.5	-16.2	-1.3		0.0	0.2	0.0	6.7	14.6
PSA Skid Additional Piping w NC	CNEL	116.6	57	221.1	-57.9	2.7	-12.5	-1.8		0.0	0.1	0.0	6.7	54.0
Reformer-Burner Reformer East	CNEL	97.3	269	233.5	-58.4	2.5	-20.4	-1.1		0.0	0.0	0.0	6.7	29.7
Reformer-Burner Reformer North	CNEL	95.9	192	224.6	-58.0	2.5	-0.1	-1.7		0.0	0.0	0.0	6.7	45.3
Reformer-Burner Reformer South	CNEL	95.8	191	228.6	-58.2	2.6	-11.8	-0.9		0.0	2.2	0.0	6.7	39.4
Reformer-Burner Reformer West	CNEL	97.3	268	220.3	-57.9	2.6	-0.3	-1.8		0.0	0.0	0.0	6.7	49.6
RFG A from battery to process	CNEL	99.4	87	195.5	-56.8	2.5	-0.9	-6.0	-0.01	0.0	0.2	0.0	6.7	45.0
RFG A from battery to process w NC	CNEL	115.2	42	222.6	-57.9	2.7	-13.1	-5.2		0.0	0.3	0.0	6.7	48.7
Stack Noise	CNEL	108.4		240.4	-58.6	2.6	-0.6	-1.7		-7.2	0.0	0.0	6.7	49.5
Steam Turbine-Facade 01	CNEL	99.6	29	202.8	-57.1	2.7	-4.8	-4.3		0.0	0.1	0.0	6.7	42.8
Steam Turbine-Facade 02	CNEL	96.2	13	204.6	-57.2	2.7	-4.8	-4.3		0.0	2.5	0.0	6.7	41.9
Steam Turbine-Facade 03	CNEL	99.6	29	206.5	-57.3	2.7	-17.1	-2.6		0.0	9.2	0.0	6.7	41.2
Steam Turbine-Facade 04	CNEL	96.2	13	204.8	-57.2	2.7	-10.5	-3.6		0.0	0.6	0.0	6.7	34.9
Steam Turbine-Roof 01	CNEL	99.7	30	204.6	-57.2	2.7	-4.5	-4.6		0.0	2.6	0.0	6.7	45.3
Tank Farm Pump 1	CNEL	99.0	3	275.0	-59.8	2.8	0.0	-2.0	-0.88	0.0	1.0	0.0	6.7	46.7
Tank Farm Pump 2	CNEL	99.0	3	290.8	-60.3	3.0	0.0	-2.1	-0.62	0.0	0.0	0.0	6.7	45.6
Tank Farm Pump 3	CNEL	99.0	3	295.2	-60.4	3.0	0.0	-2.1	-0.55	0.0	0.0	0.0	6.7	45.6
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	177.0	-56.0	1.3	-0.1	-2.1		0.0	0.3	-13.8	0.0	42.0
XF-1502 Splitter Area 1	CNEL	104.5		238.2	-58.5	2.3	-14.9	-0.8	0.00	-2.7	0.0	0.0	6.7	36.6
XF-1502 Splitter Area 2	CNEL	104.5		234.6	-58.4	2.3	-17.1	-0.9	0.00	-2.7	0.0	0.0	6.7	34.4
XF-1504 Splitter Area 1	CNEL	104.5		237.0	-58.5	2.4	-3.7	-1.5	-0.08	-4.0	0.0	0.0	6.7	45.7
XF-1504 Splitter Area 2	CNEL	104.5		233.4	-58.4	2.3	-4.2	-1.5	-0.08	-4.0	0.0	0.0	6.7	45.4
XF 251, 250, 271, 270	CNEL	101.1	128	128.5	-53.2	2.1	0.0	-0.6		-3.0	0.0	0.0	6.7	53.1
XF 260, 261A, 261 B	CNEL	99.9	97	98.5	-50.9	1.9	0.0	-0.4		-3.0	0.0	0.0	6.7	54.1
XF 304, XF 321	CNEL	110.5	56	290.3	-60.2	2.2	-1.0	-1.0	-0.12	-2.8	0.1	0.0	6.7	54.3
XF 313, XF 314	CNEL	113.0	18	317.7	-61.0	2.6	-4.9	-1.1	-0.20	-3.3	0.0	0.0	6.7	51.7
XF 335-1, XF 335-2	CNEL	113.4	54	301.1	-60.6	2.3	-2.9	-1.4	-0.11	-2.9	0.3	0.0	6.7	54.8
XF 353A/B	CNEL	95.4	35	177.7	-56.0	2.2	-2.1	-0.6	-0.02	-2.8	0.1	0.0	6.7	42.8
XF 353A/B	CNEL	95.4	35	175.2	-55.9	2.3	0.0	-0.7	0.00	-3.0	0.0	0.0	6.7	44.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 354A/B	CNEL	95.4	35	142.8	-54.1	1.9	-4.3	-0.5	0.00	-2.7	0.2	0.0	6.7	42.7	
XF 503	CNEL	113.0	21	236.9	-58.5	2.2	-1.0	-2.6	-0.89	-3.9	0.0	0.0	6.7	55.0	
XF - 1601	CNEL	96.6		223.6	-58.0	2.3	0.0	-0.7		-2.5	0.0	0.0	6.7	44.4	
XF - 1602	CNEL	96.6		222.4	-57.9	2.3	0.0	-0.7		-2.5	0.0	0.0	6.7	44.4	
XF Module 1510	CNEL	108.3		232.8	-58.3	2.3	-4.5	-1.5	-0.10	-4.0	0.0	0.0	6.7	48.8	
XF Module 1519	CNEL	109.0		237.9	-58.5	2.3	-4.5	-1.5	-0.22	-4.0	0.0	0.0	6.7	49.2	
xxxx xxxx xxxx xxxx	CNEL		606								0.3			30.5	
xxxx xxxx xxxx xxxx	CNEL		606								0.3			30.4	
xxxx xxxx xxxx xxxx	CNEL		917								1.3			47.1	
xxxx xxxx xxxx xxxx	CNEL		917								1.2			46.8	
xxxx xxxx xxxx xxxx	CNEL		608								1.1			33.5	
xxxx xxxx xxxx xxxx	CNEL		608								1.1			33.5	
xxxx xxxx xxxx xxxx	CNEL		228								1.5			31.1	
xxxx xxxx xxxx xxxx	CNEL		520								1.7			28.8	
xxxx xxxx xxxx xxxx	CNEL		1341								1.6			47.7	
xxxx xxxx xxxx xxxx	CNEL		450								4.4			37.2	
Receiver SS-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.8 dB(A) Ld 7-19 dB(A) Leq,N 65.3 dB(A) Le 19-22 dB(A) CNEL 72.0 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	245.7	-58.8	3.5	-18.0	-0.9	-0.43	0.0	1.0	0.0	6.7	37.4	
18-1855 A/B	CNEL	98.8		162.4	-55.2	3.3	-0.2	-0.9	-0.55	0.0	0.0	0.0	6.7	51.9	
18-1856 A/B	CNEL	98.8		165.2	-55.4	3.3	-0.2	-0.9	-0.76	0.0	0.0	0.0	6.7	51.5	
18-1857 A/B	CNEL	98.8		159.9	-55.1	3.2	-0.2	-0.9	-0.43	0.0	0.0	0.0	6.7	52.1	
18-1858 A/B	CNEL	98.8		158.2	-55.0	2.8	-0.1	-0.9	-0.42	0.0	0.0	0.0	6.7	51.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		157.7	-54.9	2.8	-1.5	-0.9	-0.88	0.0	0.0	0.0	6.7	54.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	97.8	-50.8	1.2	-0.4	-2.0		0.0	0.3	-4.8	1.0	53.6	
Air Compressor C 1	CNEL	110.0	5	314.8	-61.0	3.1	-7.3	-0.8	-0.51	0.0	1.3	0.0	6.7	51.5	
Air Compressor Pump	CNEL	100.3		139.4	-53.9	2.6	-19.0	-1.9		0.0	6.1	0.0	6.7	40.9	
Blower F 401	CNEL	113.0		213.0	-57.6	0.7	-12.4	-0.3		0.0	0.8	0.0	6.7	51.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.0	-53.9	1.6	-8.1	-0.5		0.0	0.0	0.0	6.7	44.4	
Boiler Feed Water Pump A	CNEL	97.1	3	187.4	-56.4	3.3	-3.0	-1.0	-0.45	0.0	0.0	0.0	6.7	46.2	
Boiler Feed Water Pump B	CNEL	97.1	3	184.4	-56.3	3.3	-6.1	-0.7	-0.51	0.0	0.0	0.0	6.7	43.4	
C370 A Motor	CNEL	103.6	3	183.6	-56.3	2.0	-9.4	-0.9		0.0	2.6	0.0	6.7	48.4	
C370 B Motor	CNEL	108.6	3	182.9	-56.2	2.1	-10.2	-0.8		0.0	2.9	0.0	6.7	53.0	
C370A	CNEL	103.8	5	188.0	-56.5	2.2	-8.7	-0.9		0.0	2.4	0.0	6.7	49.0	
C370B	CNEL	103.8	5	187.4	-56.4	2.2	-8.9	-0.9		0.0	2.5	0.0	6.7	48.9	
C-270 A	CNEL	106.3	6	133.3	-53.5	2.0	-8.6	-0.7	-0.18	0.0	0.1	0.0	6.7	52.1	
C-270 B	CNEL	106.3	6	129.3	-53.2	2.0	-8.6	-0.7	-0.06	0.0	0.0	0.0	6.7	52.5	
C-270 C	CNEL	106.3	6	125.5	-53.0	1.9	-9.6	-0.6		0.0	0.1	0.0	6.7	51.8	
C-301 Compressor	CNEL	106.8	3	161.1	-55.1	2.1	-8.9	-0.7	-0.61	0.0	0.1	0.0	6.7	50.3	
C-301 Motor	CNEL	106.8	4	158.2	-55.0	2.2	-7.1	-1.2	-0.55	0.0	0.0	0.0	6.7	51.8	
C-351 Compressor	CNEL	106.8	4	152.7	-54.7	2.1	-3.6	-1.0	-0.46	0.0	0.0	0.0	6.7	55.9	
C-351 Motor	CNEL	106.8	5	150.0	-54.5	1.9	-4.6	-1.7	-0.33	0.0	0.0	0.0	6.7	54.2	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	99.1	-50.9	0.3	-1.2	-0.3		0.0	0.3	-35.6	0.0	47.3	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	1.8	-12.3	-1.1	-0.84	2.8	3.1	0.0	6.7	45.5	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.6	-59.5	2.0	-2.9	-1.9	-1.16	0.0	0.3	0.0	6.7	44.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	1.9	-17.4	-0.7	-0.94	-7.8	13.2	0.0	6.7	41.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	1.7	-10.9	-1.3	-0.64	2.0	0.1	0.0	6.7	48.8	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.6	-59.4	1.8	-9.0	-1.1	-1.02	1.7	0.9	0.0	6.7	44.3	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	1.9	-16.4	-0.7	-0.44	-7.5	0.2	0.0	6.7	24.3	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.4	-58.3	2.3	-11.2	-0.7		4.1	0.0	0.0	6.7	40.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.0	-58.5	2.2	-18.3	-0.8		-5.9	0.0	0.0	6.7	23.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.6	-57.9	2.0	-0.6	-1.8		4.5	0.0	0.0	6.7	53.4	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.1	-14.7	-0.7		-5.2	0.1	0.0	6.7	30.6	
Cooling Tower M 512	CNEL	95.7		227.7	-58.1	3.2	-16.9	-0.8		0.0	1.2	0.0	6.7	30.9	
Cooling Tower M 513	CNEL	95.7		228.2	-58.2	3.1	-16.3	-0.8		0.0	1.1	0.0	6.7	31.3	
Cooling Tower M 514	CNEL	95.7		227.0	-58.1	3.1	-17.2	-0.8		0.0	1.2	0.0	6.7	30.6	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	209.2	-57.4	1.4	-0.2	-0.9	-0.42	-3.5	0.3	0.0	6.7	41.7	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	250.1	-59.0	3.1	-1.8	-0.1	0.00	0.0	0.0	0.0	6.7	44.4	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	251.9	-59.0	3.2	-2.3	0.0	-0.02	0.0	0.3	0.0	6.7	41.9	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	249.9	-58.9	2.4	-2.1	-0.1		0.0	0.0	0.0	6.7	41.4	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	247.7	-58.9	3.0	-3.2	-0.2		0.0	0.0	0.0	6.7	40.6	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	249.5	-58.9	3.1	-3.2	-0.2		0.0	0.6	0.0	6.7	43.3	
FD Motor	CNEL	103.3	2	250.4	-59.0	3.5	-0.4	-2.6		0.0	0.0	0.0	6.7	51.5	
Feed Compressor -B Motor	CNEL	103.8	5	174.8	-55.8	2.2	-6.9	-1.5	-0.41	0.0	0.0	0.0	6.7	48.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor-A Compressor	CNEL	104.0	5	178.5	-56.0	2.3	-10.2	-0.8	-0.38	0.0	0.0	0.0	6.7	45.6
Feed Compressor-A Motor	CNEL	103.8	6	173.3	-55.8	2.1	-10.3	-1.1	-0.41	0.0	0.0	0.0	6.7	45.0
Feed Compressor-B Compressor	CNEL	104.0	7	180.6	-56.1	2.4	-6.7	-1.0	-0.39	0.0	1.8	0.0	6.7	50.7
H2S Compressor 18-C-271	CNEL	105.3	6	283.1	-60.0	3.0	-3.1	-1.6	-0.43	0.0	0.8	0.0	6.7	50.6
Heater # 5-Heater	CNEL	91.1	13	137.8	-53.8	1.6	-0.5	-0.8		0.0	0.0	0.0	6.7	47.2
Heater # 5-Heater	CNEL	91.1	13	132.8	-53.5	1.5	-0.5	-0.8		0.0	0.0	0.0	6.7	47.5
Heater # 5-Heater	CNEL	91.1	13	142.7	-54.1	1.7	-0.5	-0.9		0.0	0.0	0.0	6.7	47.0
Hydro Heater H-402	CNEL	98.1		239.5	-58.6	2.0	-2.4	-1.0		0.0	0.0	0.0	6.7	44.8
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	244.2	-58.7	3.7	-7.9	0.0	-0.06	0.0	0.0	0.0	6.7	30.6
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	242.0	-58.7	3.7	-3.5	-0.1	-0.09	0.0	0.0	0.0	6.7	35.3
ID Fan-ID Fan - North	CNEL	92.2	8	244.2	-58.7	3.7	-8.3	0.0	-0.05	0.0	0.1	0.0	6.7	35.5
ID Fan-ID Fan - North 2	CNEL	91.4	7	244.1	-58.7	3.7	-8.0	0.0	-0.06	0.0	0.1	0.0	6.7	35.0
ID Fan-ID Fan - South	CNEL	92.3	9	241.1	-58.6	3.6	-3.8	-0.1	-0.13	0.0	0.0	0.0	6.7	40.0
ID Fan-ID Fan - South 2	CNEL	91.4	7	242.7	-58.7	3.7	-3.7	-0.1	-0.13	0.0	0.0	0.0	6.7	39.1
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	242.9	-58.7	3.1	-5.0	-0.1	-0.10	0.0	0.0	0.0	6.7	39.9
Motor & Pump P 56A/B	CNEL	93.7		257.3	-59.2	3.2	-2.2	-2.0	-0.28	0.0	0.1	0.0	6.7	39.9
Motor & Pump P 120/121	CNEL	96.2	2	303.1	-60.6	3.4	-19.1	-1.0	-0.50	0.0	0.0	0.0	6.7	25.0
Motor & Pump P 211/212	CNEL	93.7		246.3	-58.8	3.0	-10.7	-1.3	-0.74	0.0	0.0	0.0	6.7	31.8
Motor & Pump P 215/214	CNEL	94.6		250.7	-59.0	3.1	-4.9	-1.7	-0.85	0.0	0.0	0.0	6.7	38.1
Motor & Pump P 216	CNEL	98.3		250.6	-59.0	2.9	-6.3	-1.7	-0.74	0.0	0.0	0.0	6.7	40.2
Motor & Pump P 217/218	CNEL	93.7		248.0	-58.9	3.3	-10.2	-1.3	-0.79	0.0	0.0	0.0	6.7	32.5
Motor & Pump P 300	CNEL	97.1	2	310.6	-60.8	3.4	-16.9	-1.1	-0.47	0.0	1.2	0.0	6.7	29.1
Motor & Pump P 301	CNEL	102.1	2	309.1	-60.8	3.4	-17.9	-1.0	-0.47	0.0	1.0	0.0	6.7	33.0
Motor & Pump P 302	CNEL	97.1	2	312.2	-60.9	3.5	-16.0	-1.1	-0.15	0.0	1.2	0.0	6.7	30.3
Motor & Pump P 303	CNEL	97.1	2	313.5	-60.9	3.4	-15.9	-1.1	-0.15	0.0	1.2	0.0	6.7	30.4
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.4	-15.3	-1.0	-0.34	0.0	1.1	0.0	6.7	31.1
Motor & Pump P 306	CNEL	112.6	4	322.9	-61.2	3.0	-17.2	-1.1	-0.34	0.0	1.2	0.0	6.7	43.6
Motor & Pump P 307	CNEL	102.1	2	304.8	-60.7	3.4	-16.5	-1.1	-0.46	0.0	0.8	0.0	6.7	34.3
Motor & Pump P 309	CNEL	97.5	2	316.2	-61.0	3.4	-15.5	-1.0	-0.27	0.0	0.7	0.0	6.7	30.6
Motor & Pump P 312	CNEL	101.5	2	285.8	-60.1	3.4	-4.8	-1.2	-0.86	0.0	0.4	0.0	6.7	45.0
Motor & Pump P 313	CNEL	101.5	2	284.2	-60.1	3.4	-3.1	-1.5	-0.88	0.0	0.8	0.0	6.7	46.9
Motor & Pump P 315	CNEL	102.9	2	278.9	-59.9	3.2	-5.7	-1.1	-1.05	0.0	0.0	0.0	6.7	45.1
Motor & Pump P 316	CNEL	102.9	2	277.2	-59.8	3.2	-4.0	-1.1	-1.09	0.0	0.9	0.0	6.7	47.7
Motor & Pump P 317	CNEL	102.9	2	275.4	-59.8	3.2	-4.1	-1.1	-1.13	0.0	1.8	0.0	6.7	48.4
Motor & Pump P 318	CNEL	100.2	1	280.3	-59.9	3.4	-4.1	-1.1	-0.98	0.0	0.0	0.0	6.7	44.1
Motor & Pump P 319	CNEL	100.2	1	281.6	-60.0	3.4	-3.3	-1.2	-0.95	0.0	0.0	0.0	6.7	44.8
Motor & Pump P 327	CNEL	111.2	3	330.3	-61.4	3.7	-22.2	-1.9	-0.14	0.0	3.3	0.0	6.7	39.2
Motor & Pump P 328	CNEL	109.9	5	317.7	-61.0	3.3	-16.0	-1.1	-0.19	0.0	0.6	0.0	6.7	42.3
Motor & Pump P 329	CNEL	110.2	5	320.2	-61.1	3.4	-17.4	-1.2	-0.10	0.0	1.1	0.0	6.7	41.6
Motor & Pump P 451	CNEL	93.7		232.9	-58.3	3.0	-9.2	-1.4		0.0	0.0	0.0	6.7	34.5
Motor & Pump P 453	CNEL	93.7		221.3	-57.9	2.9	-4.5	-1.5		0.0	0.0	0.0	6.7	39.4
Motor & Pump P 454	CNEL	93.7		234.0	-58.4	3.0	-10.8	-1.1		0.0	0.0	0.0	6.7	33.0
Motor & Pump P 457	CNEL	93.7		220.0	-57.8	2.9	-3.6	-1.6		0.0	0.0	0.0	6.7	40.1
Motor & Pump P 458	CNEL	93.7		232.3	-58.3	3.0	-4.5	-1.5		0.0	0.0	0.0	6.7	39.0
Motor & Pump P 459	CNEL	93.7		234.9	-58.4	3.0	-9.7	-1.3		0.0	0.0	0.0	6.7	33.9
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.3	-59.0	3.4	-20.4	-1.5		0.0	0.0	0.0	6.7	25.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		253.9	-59.1	3.4	-17.9	-1.3		0.0	0.0	0.0	6.7	28.0
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.8	-60.0	3.6	-11.0	-1.6	-0.24	0.0	4.2	0.0	6.7	37.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		282.9	-60.0	3.6	-11.4	-1.5	-0.25	0.0	4.5	0.0	6.7	37.0
Motor & Pump P 1601 A	CNEL	96.3	2	243.0	-58.7	3.2	-18.9	-1.2		0.0	0.0	0.0	6.7	27.4
Motor & Pump P 1601 B	CNEL	96.3	2	242.5	-58.7	3.2	-18.6	-1.2		0.0	0.0	0.0	6.7	27.7
Motor & Pump P 1602 A	CNEL	96.3	2	242.0	-58.7	3.2	-18.2	-1.2		0.0	0.0	0.0	6.7	28.1
Motor & Pump P 1602 B	CNEL	96.5	2	241.6	-58.7	3.2	-17.5	-1.2		0.0	0.0	0.0	6.7	29.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.3	-58.9	3.4	-18.2	-1.3	-0.08	0.0	0.0	0.0	6.7	28.2
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	253.9	-59.1	3.5	-15.1	-1.3	-0.20	0.0	0.0	0.0	6.7	31.1
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.2	-59.2	3.5	-13.7	-1.3	-0.24	0.0	0.0	0.0	6.7	32.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.0	-59.1	3.4	-18.1	-1.3		0.0	0.0	0.0	6.7	28.2
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.7	-59.2	3.4	-18.1	-1.3	-0.01	0.0	0.1	0.0	6.7	28.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.7	-59.2	3.6	-14.3	-1.2	-0.06	0.0	0.0	0.0	6.7	31.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.4	-59.3	3.6	-17.7	-1.2	-0.21	0.0	0.0	0.0	6.7	28.1
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.7	-59.3	3.5	-16.6	-1.4	-0.32	0.0	0.0	0.0	6.7	28.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.1	-59.3	3.5	-16.0	-1.2	-0.35	0.0	0.0	0.0	6.7	29.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	304.9	-60.7	3.3	-12.2	-1.2	-0.09	0.0	0.0	0.0	6.7	40.0	
P-2 A/B	CNEL	98.5		229.2	-58.2	3.7	-4.2	-0.9	-0.65	0.0	0.7	0.0	6.7	45.6	
P-50 A/B	CNEL	98.1		200.6	-57.0	3.7	-16.8	-0.7	-0.24	0.0	0.1	0.0	6.7	33.9	
P-51 A/B	CNEL	98.1		199.0	-57.0	3.7	-0.1	-1.1	-1.43	0.0	0.0	0.0	6.7	49.0	
P-060 A/B	CNEL	98.1		204.7	-57.2	3.8	-20.3	-0.8	-1.58	0.0	0.0	0.0	6.7	28.7	
P-63	CNEL	98.5		196.9	-56.9	3.6	-4.9	-0.8	-0.55	0.0	0.0	0.0	6.7	45.6	
P-70 A/B	CNEL	98.1		202.8	-57.1	3.8	-18.3	-0.8	-1.55	0.0	0.0	0.0	6.7	30.8	
P-73 A/B	CNEL	98.5		224.9	-58.0	3.7	-2.6	-1.1	-0.72	0.0	0.5	0.0	6.7	47.0	
P-251 A/B	CNEL	98.2		109.9	-51.8	3.0	-0.7	-0.7	-0.33	0.0	0.0	0.0	6.7	54.4	
P-252 A/B	CNEL	98.2		121.2	-52.7	3.2	-0.6	-0.8	-0.57	0.0	0.3	0.0	6.7	53.8	
P-253	CNEL	98.2		124.9	-52.9	3.3	-0.5	-0.8	-0.60	0.0	0.0	0.0	6.7	53.4	
P-254 A/B	CNEL	98.2		115.7	-52.3	3.1	-0.5	-0.7	-0.35	0.0	0.0	0.0	6.7	54.2	
P-255 A/B	CNEL	98.2		113.9	-52.1	3.1	-0.6	-0.7	-0.34	0.0	0.0	0.0	6.7	54.2	
P-255 A/B	CNEL	98.2		106.9	-51.6	3.0	-0.9	-0.7	-0.08	0.0	0.0	0.0	6.7	54.6	
P-256 A/B	CNEL	98.2		111.6	-51.9	3.1	-0.7	-0.7	-0.34	0.0	0.0	0.0	6.7	54.3	
P-259 A/B	CNEL	98.2		108.4	-51.7	3.0	-0.8	-0.7	-0.25	0.0	0.0	0.0	6.7	54.5	
P-260	CNEL	99.1		114.1	-52.1	3.1	-1.0	-0.8	-0.21	0.0	0.0	0.0	6.7	54.8	
P-261 A/B	CNEL	98.0		109.5	-51.8	2.9	-2.1	-0.8	-0.20	0.0	0.0	0.0	6.7	52.7	
P-262 A/B	CNEL	99.1		111.9	-52.0	3.0	-1.3	-0.8	-0.21	0.0	1.2	0.0	6.7	55.8	
P-263 A/B	CNEL	99.4		113.0	-52.1	3.1	-1.2	-0.8	-0.21	0.0	0.0	0.0	6.7	54.9	
P-270 A/B	CNEL	98.5		145.1	-54.2	3.5	-0.3	-0.9	-0.13	0.0	0.0	0.0	6.7	53.2	
P-271 A/B	CNEL	98.2		121.4	-52.7	3.2	-0.4	-0.7	-0.36	0.0	1.0	0.0	6.7	54.9	
P-272 A/B	CNEL	98.2		118.6	-52.5	3.2	-0.5	-0.7	-0.35	0.0	0.9	0.0	6.7	55.0	
P-273 A/B	CNEL	98.5		142.4	-54.1	3.5	-0.3	-0.8	-0.02	0.0	0.0	0.0	6.7	53.4	
P-275 A/B/C	CNEL	98.2		131.3	-53.4	3.4	-0.4	-0.8	-0.63	0.0	0.0	0.0	6.7	53.1	
P-305	CNEL	99.3		125.7	-53.0	3.0	-0.1	-0.7	-0.10	0.0	0.4	0.0	6.7	55.5	
P-306	CNEL	100.8		135.0	-53.6	3.1	-0.1	-0.8	-0.32	0.0	0.0	0.0	6.7	55.9	
P-309	CNEL	99.3		128.0	-53.1	3.1	-0.1	-0.7	-0.15	0.0	0.4	0.0	6.7	55.3	
P-328	CNEL	100.8		140.5	-53.9	3.2	-0.1	-0.8	-0.44	0.0	0.0	0.0	6.7	55.4	
P-329	CNEL	100.8		137.9	-53.8	3.2	-0.1	-0.8	-0.38	0.0	0.0	0.0	6.7	55.6	
P-353	CNEL	98.5		133.1	-53.5	2.5	-13.1	-0.5	-0.17	0.0	11.2	0.0	6.7	51.7	
P-358 A/B	CNEL	99.4		162.2	-55.2	3.6	-8.6	-0.6	-0.69	0.0	1.7	0.0	6.7	46.2	
P-359 A/B	CNEL	99.4		159.9	-55.1	3.5	-11.5	-0.5	-0.69	0.0	0.0	0.0	6.7	41.8	
P-360 A/B	CNEL	99.4		155.8	-54.8	3.5	-12.1	-0.5	-0.67	0.0	11.8	0.0	6.7	53.2	
P-361A	CNEL	98.1		213.7	-57.6	3.5	-7.6	-0.8	-1.57	0.0	0.4	0.0	6.7	41.1	
P-371 A/B	CNEL	98.0		196.8	-56.9	3.1	-1.7	-1.3		0.0	0.0	0.0	6.7	47.9	
P-373 A/B	CNEL	98.0		193.7	-56.7	3.2	-11.2	-0.7		0.0	2.3	0.0	6.7	41.6	
P-374 A/B	CNEL	98.0		194.4	-56.8	3.2	-11.0	-0.7		0.0	3.3	0.0	6.7	42.8	
P-375 A/B	CNEL	98.0		196.4	-56.9	3.1	-5.1	-0.8		0.0	1.2	0.0	6.7	46.2	
P-376	CNEL	98.0		194.8	-56.8	3.2	-10.6	-0.7		0.0	3.1	0.0	6.7	42.9	
P-376 A/B	CNEL	98.0		193.1	-56.7	3.2	-10.8	-0.6		0.0	2.1	0.0	6.7	41.8	
P-377	CNEL	98.0		195.4	-56.8	3.2	-9.6	-0.7		0.0	2.6	0.0	6.7	43.4	
P-1101 A	CNEL	98.9		225.7	-58.1	3.4	0.0	-1.2	-1.49	0.0	0.0	0.0	6.7	48.2	
P-1103	CNEL	98.9		224.4	-58.0	3.4	0.0	-1.2	-1.49	0.0	0.0	0.0	6.7	48.3	
P-1105 A/B/C	CNEL	98.9		231.1	-58.3	3.4	0.0	-1.2	-1.49	0.0	0.0	0.0	6.7	48.0	
P-1800	CNEL	98.9		247.1	-58.9	3.6	-9.9	-0.9		0.0	2.1	0.0	6.7	41.7	
P-1801	CNEL	98.9		296.8	-60.4	3.8	-5.3	-1.4		0.0	0.0	0.0	6.7	42.2	
P-1802	CNEL	98.9		297.0	-60.4	3.8	-5.3	-1.4		0.0	0.0	0.0	6.7	42.2	
P-1803	CNEL	99.1		228.9	-58.2	4.0	-15.9	-0.8	-1.73	0.0	13.8	0.0	6.7	47.0	
P-1804	CNEL	99.1		233.1	-58.3	4.0	-16.9	-0.8	-1.64	0.0	1.0	0.0	6.7	33.0	
P-1805	CNEL	99.1		236.0	-58.5	4.0	-14.2	-0.7	-1.65	0.0	1.3	0.0	6.7	36.0	
P-1806	CNEL	99.1		208.5	-57.4	3.9	0.0	-1.1	-1.34	0.0	0.0	0.0	6.7	49.9	
P-1809 A	CNEL	98.9		259.8	-59.3	3.7	-9.5	-1.0		0.0	0.1	0.0	6.7	39.6	
P-1810 A/B/C	CNEL	99.0		243.5	-58.7	4.0	-16.3	-0.8	-1.67	0.0	1.7	0.0	6.7	33.9	
P-1811 A/B	CNEL	99.1		214.1	-57.6	3.9	-3.7	-0.9	-1.42	0.0	0.0	0.0	6.7	46.1	
P-1811 A/B	CNEL	99.1		239.5	-58.6	4.0	-12.8	-0.8	-1.63	0.0	1.8	0.0	6.7	37.8	
P-1847 A/B	CNEL	99.4		263.7	-59.4	4.2	-0.1	-1.4	-0.33	0.0	0.1	0.0	6.7	49.1	
P-1849 A/B	CNEL	99.4		268.5	-59.6	4.2	-0.1	-1.4	-0.44	0.0	0.1	0.0	6.7	48.9	
P-1853	CNEL	99.1		91.7	-50.2	2.6	-1.4	-0.7		0.0	2.5	0.0	6.7	58.6	
Piping Furnace Tanks	CNEL	87.1	72	224.2	-58.0	2.1	-1.7	-7.0	-0.23	0.0	1.7	0.0	6.7	30.5	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	206.2	-57.3	2.0	-3.5	-7.1	-0.14	0.0	0.1	0.0	6.7	39.2	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	234.9	-58.4	2.7	-16.6	-1.7		0.0	0.3	0.0	6.7	47.6	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	233.3	-58.3	2.8	-19.7	-4.4		0.0	0.6	0.0	6.7	42.8	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	324.7	-61.2	2.6	-22.6	-1.3		0.0	0.5	0.0	6.7	35.3	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	315.6	-61.0	2.6	-20.6	-1.1		0.0	6.1	0.0	6.7	43.8	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	288.6	-60.2	2.5	-16.9	-1.0	-0.02	0.0	0.0	0.0	6.7	35.2	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	293.8	-60.4	2.5	-11.1	-1.2		0.0	0.3	0.0	6.7	48.0	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	278.6	-59.9	2.5	-9.1	-1.1		0.0	0.1	0.0	6.7	43.2	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	295.0	-60.4	2.6	-16.2	-1.0		0.0	0.1	0.0	6.7	35.4	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	279.8	-59.9	2.5	-4.6	-1.4	-0.30	0.0	0.0	0.0	6.7	49.7	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	278.2	-59.9	2.4	-10.1	-1.2	-0.12	0.0	0.7	0.0	6.7	44.7	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	302.7	-60.6	1.8	-5.8	-1.4		0.0	1.0	0.0	6.7	54.8	
PSA Pipe 3" Lagging	CNEL	80.6	11	233.7	-58.4	1.9	-16.4	-1.4		0.0	0.2	0.0	6.7	13.3	
PSA Skid Additional Piping w NC	CNEL	116.6	57	235.0	-58.4	2.7	-17.1	-1.7		0.0	0.3	0.0	6.7	49.1	
Reformer-Burner Reformer East	CNEL	97.3	269	242.5	-58.7	1.9	-20.9	-1.2		0.0	0.0	0.0	6.7	28.0	
Reformer-Burner Reformer North	CNEL	95.9	192	234.3	-58.4	1.9	-1.1	-1.9	-0.14	0.0	0.0	0.0	6.7	42.9	
Reformer-Burner Reformer South	CNEL	95.8	191	236.5	-58.5	1.9	-9.4	-1.1		0.0	0.0	0.0	6.7	38.5	
Reformer-Burner Reformer West	CNEL	97.3	268	229.1	-58.2	2.0	-0.9	-1.9	-0.16	0.0	0.0	0.0	6.7	47.9	
RFG A from battery to process	CNEL	99.4	87	205.6	-57.3	2.0	-2.2	-6.8	-0.22	0.0	0.3	0.0	6.7	41.9	
RFG A from battery to process w NC	CNEL	115.2	42	236.1	-58.5	2.8	-18.4	-4.5		0.0	0.5	0.0	6.7	43.9	
Stack Noise	CNEL	108.4		246.2	-58.8	1.5	-0.7	-2.1		-7.6	0.0	0.0	6.7	47.3	
Steam Turbine-Facade 01	CNEL	99.6	29	217.2	-57.7	3.2	-8.3	-3.4		0.0	0.1	0.0	6.7	40.2	
Steam Turbine-Facade 02	CNEL	96.2	13	218.5	-57.8	3.2	-8.2	-3.4		0.0	2.9	0.0	6.7	39.7	
Steam Turbine-Facade 03	CNEL	99.6	29	220.8	-57.9	3.2	-22.3	-2.9		0.0	10.5	0.0	6.7	37.0	
Steam Turbine-Facade 04	CNEL	96.2	13	219.5	-57.8	3.2	-19.9	-2.8		0.0	1.4	0.0	6.7	27.0	
Steam Turbine-Roof 01	CNEL	99.7	30	219.0	-57.8	2.4	-5.0	-4.7		0.0	2.7	0.0	6.7	44.1	
Tank Farm Pump 1	CNEL	99.0	3	270.9	-59.6	4.0	-0.1	-2.1	-0.33	0.0	0.7	0.0	6.7	48.3	
Tank Farm Pump 2	CNEL	99.0	3	285.5	-60.1	4.1	0.0	-2.2	-0.17	0.0	0.0	0.0	6.7	47.2	
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	4.1	0.0	-2.2	-0.22	0.0	0.0	0.0	6.7	47.1	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	209.6	-57.4	1.2	-0.3	-2.6		0.0	0.6	-13.8	0.0	40.1	
XF-1502 Splitter Area 1	CNEL	104.5		256.9	-59.2	1.4	-3.4	-1.6	-0.26	-4.2	0.0	0.0	6.7	43.8	
XF-1502 Splitter Area 2	CNEL	104.5		253.4	-59.1	1.4	-14.2	-1.1	0.00	-3.5	0.0	0.0	6.7	34.8	
XF-1504 Splitter Area 1	CNEL	104.5		255.4	-59.1	1.4	-1.2	-2.2	-0.07	-4.6	0.0	0.0	6.7	45.5	
XF-1504 Splitter Area 2	CNEL	104.5		251.9	-59.0	1.4	-2.0	-1.7	-0.07	-4.4	0.0	0.0	6.7	45.5	
XF 251, 250, 271, 270	CNEL	101.1	128	125.8	-53.0	1.4	-0.1	-0.6	-0.46	-3.2	0.0	0.0	6.7	51.8	
XF 260, 261A, 261 B	CNEL	99.9	97	105.3	-51.4	1.2	0.0	-0.5	-0.07	-3.2	0.0	0.0	6.7	52.5	
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	0.7	-1.8	-1.2	-0.15	-3.3	0.1	0.0	6.7	50.7	
XF 313, XF 314	CNEL	113.0	18	338.1	-61.6	1.6	-5.3	-1.1	-0.09	-3.6	0.1	0.0	6.7	49.7	
XF 335-1, XF 335-2	CNEL	113.4	54	321.8	-61.1	1.0	-3.4	-1.8	-0.13	-3.3	0.1	0.0	6.7	51.3	
XF 353A/B	CNEL	95.4	35	164.5	-55.3	1.2	-6.1	-0.3	-0.02	-2.3	1.0	0.0	6.7	40.2	
XF 353A/B	CNEL	95.4	35	164.8	-55.3	1.3	-0.2	-0.8	-0.76	-3.4	0.0	0.0	6.7	43.0	
XF 354A/B	CNEL	95.4	35	128.4	-53.2	1.0	-3.5	-0.4	-0.04	-2.8	0.8	0.0	6.7	44.0	
XF 503	CNEL	113.0	21	258.2	-59.2	1.1	-1.8	-2.7	-0.81	-4.0	0.0	0.0	6.7	52.3	
XF - 1601	CNEL	96.6		241.5	-58.6	0.8	0.0	-0.9		-3.1	0.0	0.0	6.7	41.4	
XF - 1602	CNEL	96.6		239.8	-58.6	0.9	0.0	-0.9		-3.1	0.0	0.0	6.7	41.5	
XF Module 1510	CNEL	108.3		252.0	-59.0	1.3	-6.3	-1.3	-0.10	-4.0	0.0	0.0	6.7	45.5	
XF Module 1519	CNEL	109.0		257.0	-59.2	1.3	-6.0	-1.4	-0.22	-4.0	0.0	0.0	6.7	46.3	
xxxx xxxx xxxx xxxx	CNEL		606								0.7			28.9	
xxxx xxxx xxxx xxxx	CNEL		606								0.7			29.3	
xxxx xxxx xxxx xxxx	CNEL		917								1.4			46.6	
xxxx xxxx xxxx xxxx	CNEL		917								1.4			46.3	
xxxx xxxx xxxx xxxx	CNEL		608								3.1			31.5	
xxxx xxxx xxxx xxxx	CNEL		608								3.1			31.5	
xxxx xxxx xxxx xxxx	CNEL		228								6.0			27.5	
xxxx xxxx xxxx xxxx	CNEL		520								4.8			31.9	
xxxx xxxx xxxx xxxx	CNEL		1341								1.6			47.0	
xxxx xxxx xxxx xxxx	CNEL		450								4.8			36.9	
Receiver SS-6 Fl F2 59 dB(A) 59 dB(A) Lr,lim dB(A)				Leq,D 66.3 dB(A)		Ld 7-19 dB(A)		Leq,N 65.8 dB(A)		Le 19-22 dB(A)		CNEL 72.6 dB(A)		Lmax day hr dB(A)	Ld 7-
ID Fan Motor	CNEL	104.4	2	245.7	-58.8	3.0	-15.3	-1.2	-0.43	0.0	0.9	0.0	6.7	39.1	
18-1855 A/B	CNEL	98.8		162.4	-55.2	2.7	0.0	-0.9	-0.56	0.0	0.0	0.0	6.7	51.5	
18-1856 A/B	CNEL	98.8		165.3	-55.4	2.7	0.0	-0.9	-0.77	0.0	0.0	0.0	6.7	51.1	
18-1857 A/B	CNEL	98.8		159.9	-55.1	2.7	0.0	-0.8	-0.43	0.0	0.0	0.0	6.7	51.8	
18-1858 A/B	CNEL	98.8		158.2	-55.0	2.6	0.0	-0.8	-0.43	0.0	0.0	0.0	6.7	51.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		157.7	-55.0	2.6	0.0	-0.6	-0.92	0.0	0.0	0.0	6.7	55.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	98.0	-50.8	1.3	-0.2	-1.9		0.0	0.3	-4.8	1.0	53.8	
Air Compressor C 1	CNEL	110.0	5	314.8	-61.0	3.6	-6.1	-0.7	-0.53	0.0	1.4	0.0	6.7	53.3	
Air Compressor Pump	CNEL	100.3		139.5	-53.9	2.5	-18.8	-1.8		0.0	6.5	0.0	6.7	41.5	
Blower F 401	CNEL	113.0		213.0	-57.6	1.8	-12.4	-0.3		0.0	1.1	0.0	6.7	52.4	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.0	-53.9	2.3	-8.9	-0.4		0.0	0.0	0.0	6.7	44.4	
Boiler Feed Water Pump A	CNEL	97.1	3	187.5	-56.5	2.6	-2.4	-1.0	-0.46	0.0	0.0	0.0	6.7	46.2	
Boiler Feed Water Pump B	CNEL	97.1	3	184.4	-56.3	2.7	-4.7	-0.8	-0.51	0.0	0.0	0.0	6.7	44.1	
C370 A Motor	CNEL	103.6	3	183.6	-56.3	2.6	-8.1	-0.9		0.0	1.7	0.0	6.7	49.3	
C370 B Motor	CNEL	108.6	3	182.9	-56.2	2.6	-9.1	-0.8		0.0	2.0	0.0	6.7	53.7	
C370A	CNEL	103.8	5	188.0	-56.5	2.6	-7.1	-1.0		0.0	1.5	0.0	6.7	50.0	
C370B	CNEL	103.8	5	187.4	-56.4	2.6	-7.4	-1.0		0.0	1.6	0.0	6.7	49.9	
C-270 A	CNEL	106.3	6	133.4	-53.5	2.4	-7.9	-0.7	-0.18	0.0	0.1	0.0	6.7	53.2	
C-270 B	CNEL	106.3	6	129.3	-53.2	2.4	-7.9	-0.7	-0.06	0.0	0.0	0.0	6.7	53.5	
C-270 C	CNEL	106.3	6	125.6	-53.0	2.3	-9.1	-0.6		0.0	0.1	0.0	6.7	52.7	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-301 Compressor	CNEL	106.8	3	161.1	-55.1	2.6	-6.1	-0.9	-0.62	0.0	0.0	0.0	6.7	53.4
C-301 Motor	CNEL	106.8	4	158.3	-55.0	2.6	-6.7	-1.2	-0.55	0.0	0.0	0.0	6.7	52.7
C-351 Compressor	CNEL	106.8	4	152.7	-54.7	2.6	-3.2	-1.0	-0.47	0.0	0.0	0.0	6.7	56.7
C-351 Motor	CNEL	106.8	5	150.0	-54.5	2.4	-4.7	-1.8	-0.33	0.0	0.0	0.0	6.7	54.6
Cars Pumping 6 times in during delivery	CNEL	134.7	361	99.3	-50.9	0.6	-0.5	-0.3		0.0	0.3	-35.6	0.0	48.2
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	2.3	-11.9	-1.1	-0.86	2.8	3.1	0.0	6.7	46.3
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.7	-59.5	2.4	-2.4	-1.9	-1.18	0.0	0.3	0.0	6.7	44.9
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	2.3	-16.6	-0.6	-0.98	-7.8	12.4	0.0	6.7	42.1
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	2.2	-10.6	-1.2	-0.65	2.0	0.1	0.0	6.7	49.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.6	-59.4	2.3	-8.5	-1.0	-1.04	1.7	0.8	0.0	6.7	45.3
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.2	-15.9	-0.6	-0.46	-7.5	0.1	0.0	6.7	25.0
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.4	-58.3	2.6	-10.5	-0.6		4.1	0.0	0.0	6.7	41.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.1	-58.5	2.5	-17.7	-0.7		-5.9	0.0	0.0	6.7	24.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.6	-57.9	2.4	0.0	-1.5		4.5	0.0	0.0	6.7	54.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.5	-14.2	-0.6		-5.2	0.0	0.0	6.7	31.6
Cooling Tower M 512	CNEL	95.7		227.8	-58.1	2.8	-16.5	-0.8		0.0	1.2	0.0	6.7	31.0
Cooling Tower M 513	CNEL	95.7		228.2	-58.2	2.8	-15.9	-0.8		0.0	1.2	0.0	6.7	31.4
Cooling Tower M 514	CNEL	95.7		227.1	-58.1	2.8	-16.8	-0.8		0.0	1.3	0.0	6.7	30.8
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	209.2	-57.4	2.3	0.0	-0.8	-0.41	-3.0	0.3	0.0	6.7	43.3
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	250.1	-59.0	2.8	-2.0	-0.1	0.00	0.0	0.0	0.0	6.7	43.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	251.9	-59.0	2.9	-2.7	-0.1	-0.02	0.0	0.7	0.0	6.7	41.5
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	249.9	-58.9	2.6	-3.9	-0.2		0.0	0.0	0.0	6.7	39.6
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	247.7	-58.9	2.6	-1.9	-0.2		0.0	0.0	0.0	6.7	41.4
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	249.5	-58.9	2.8	-1.5	-0.2		0.0	0.7	0.0	6.7	44.8
FD Motor	CNEL	103.3	2	250.4	-59.0	3.0	-0.4	-2.5		0.0	0.0	0.0	6.7	51.1
Feed Compressor -B Motor	CNEL	103.8	5	174.8	-55.8	2.6	-6.4	-1.5	-0.41	0.0	0.0	0.0	6.7	48.9
Feed Compressor-A Compressor	CNEL	104.0	5	178.5	-56.0	2.6	-8.5	-0.9	-0.39	0.0	0.0	0.0	6.7	47.6
Feed Compressor-A Motor	CNEL	103.8	6	173.3	-55.8	2.6	-8.5	-1.2	-0.41	0.0	0.0	0.0	6.7	47.3
Feed Compressor-B Compressor	CNEL	104.0	7	180.6	-56.1	2.6	-6.1	-1.1	-0.39	0.0	1.5	0.0	6.7	51.1
H2S Compressor 18-C-271	CNEL	105.3	6	283.1	-60.0	3.0	-2.9	-1.6	-0.44	0.0	0.8	0.0	6.7	50.8
Heater # 5-Heater	CNEL	91.1	13	137.9	-53.8	2.3	-0.1	-0.7		0.0	0.0	0.0	6.7	48.6
Heater # 5-Heater	CNEL	91.1	13	132.9	-53.5	2.3	-0.1	-0.7		0.0	0.0	0.0	6.7	48.9
Heater # 5-Heater	CNEL	91.1	13	142.8	-54.1	2.3	-0.1	-0.7		0.0	0.0	0.0	6.7	48.3
Hydro Heater H-402	CNEL	98.1		239.5	-58.6	2.7	-1.7	-0.9		0.0	0.0	0.0	6.7	46.2
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	244.2	-58.7	3.1	-8.2	-0.1	-0.07	0.0	0.0	0.0	6.7	29.7
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	242.0	-58.7	3.0	-3.5	-0.1	-0.11	0.0	0.0	0.0	6.7	34.6
ID Fan-ID Fan - North	CNEL	92.2	8	244.2	-58.7	3.0	-8.7	-0.1	-0.07	0.0	0.1	0.0	6.7	34.5
ID Fan-ID Fan - North 2	CNEL	91.4	7	244.1	-58.7	3.0	-8.2	-0.1	-0.07	0.0	0.2	0.0	6.7	34.2
ID Fan-ID Fan - South	CNEL	92.3	9	241.1	-58.6	3.0	-1.4	-0.1	-0.17	0.0	0.0	0.0	6.7	41.6
ID Fan-ID Fan - South 2	CNEL	91.4	7	242.7	-58.7	3.0	-1.6	-0.1	-0.17	0.0	0.0	0.0	6.7	40.5
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	242.9	-58.7	2.7	-4.7	-0.1	-0.12	0.0	0.0	0.0	6.7	39.8
Motor & Pump P 56A/B	CNEL	93.7		257.3	-59.2	3.0	-1.8	-2.1	-0.28	0.0	0.1	0.0	6.7	40.1
Motor & Pump P 120/121	CNEL	96.2	2	303.1	-60.6	3.5	-18.7	-0.9	-0.51	0.0	0.0	0.0	6.7	25.6
Motor & Pump P 211/212	CNEL	93.7		246.4	-58.8	2.8	-10.1	-1.2	-0.75	0.0	0.0	0.0	6.7	32.3
Motor & Pump P 215/214	CNEL	94.6		250.7	-59.0	2.9	-4.2	-1.7	-0.86	0.0	0.0	0.0	6.7	38.5
Motor & Pump P 216	CNEL	98.3		250.6	-59.0	2.7	-5.4	-1.8	-0.75	0.0	0.0	0.0	6.7	40.8
Motor & Pump P 217/218	CNEL	93.7		248.1	-58.9	3.1	-9.7	-1.2	-0.80	0.0	0.1	0.0	6.7	32.9
Motor & Pump P 300	CNEL	97.1	2	310.6	-60.8	3.5	-16.0	-0.9	-0.48	0.0	1.0	0.0	6.7	30.0
Motor & Pump P 301	CNEL	102.1	2	309.1	-60.8	3.5	-17.3	-0.9	-0.48	0.0	1.2	0.0	6.7	34.0
Motor & Pump P 302	CNEL	97.1	2	312.2	-60.9	3.5	-15.5	-1.0	-0.16	0.0	1.0	0.0	6.7	30.8
Motor & Pump P 303	CNEL	97.1	2	313.6	-60.9	3.5	-15.4	-1.0	-0.16	0.0	1.0	0.0	6.7	30.9
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.5	-14.8	-0.9	-0.35	0.0	0.9	0.0	6.7	31.6
Motor & Pump P 306	CNEL	112.6	4	322.9	-61.2	3.4	-16.4	-0.9	-0.35	0.0	0.9	0.0	6.7	44.9
Motor & Pump P 307	CNEL	102.1	2	304.9	-60.7	3.5	-16.1	-1.0	-0.47	0.0	1.1	0.0	6.7	35.1
Motor & Pump P 309	CNEL	97.5	2	316.2	-61.0	3.5	-15.0	-1.0	-0.28	0.0	0.6	0.0	6.7	31.1
Motor & Pump P 312	CNEL	101.5	2	285.8	-60.1	3.4	-4.4	-1.1	-0.87	0.0	0.5	0.0	6.7	45.6
Motor & Pump P 313	CNEL	101.5	2	284.3	-60.1	3.4	-2.3	-1.3	-0.90	0.0	0.7	0.0	6.7	47.7
Motor & Pump P 315	CNEL	102.9	2	278.9	-59.9	3.2	-5.1	-1.1	-1.06	0.0	0.0	0.0	6.7	45.6
Motor & Pump P 316	CNEL	102.9	2	277.2	-59.8	3.2	-3.0	-1.2	-1.09	0.0	0.8	0.0	6.7	48.4
Motor & Pump P 317	CNEL	102.9	2	275.5	-59.8	3.2	-3.1	-1.2	-1.13	0.0	1.5	0.0	6.7	49.0
Motor & Pump P 318	CNEL	100.2	1	280.3	-59.9	3.4	-3.9	-1.1	-1.00	0.0	0.0	0.0	6.7	44.3
Motor & Pump P 319	CNEL	100.2	1	281.6	-60.0	3.4	-3.1	-1.1	-0.96	0.0	0.0	0.0	6.7	45.1
Motor & Pump P 327	CNEL	111.2	3	330.3	-61.4	3.6	-21.2	-1.9	-0.12	0.0	3.4	0.0	6.7	40.4
Motor & Pump P 328	CNEL	109.9	5	317.7	-61.0	3.4	-15.5	-1.0	-0.20	0.0	0.5	0.0	6.7	42.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 329	CNEL	110.2	5	320.3	-61.1	3.5	-17.0	-1.1	-0.11	0.0	1.0	0.0	6.7	42.0
Motor & Pump P 451	CNEL	93.7		232.9	-58.3	2.8	-9.0	-1.3		0.0	0.0	0.0	6.7	34.5
Motor & Pump P 453	CNEL	93.7		221.4	-57.9	2.6	-3.2	-1.6		0.0	0.0	0.0	6.7	40.3
Motor & Pump P 454	CNEL	93.7		234.0	-58.4	2.8	-10.3	-1.0		0.0	0.0	0.0	6.7	33.4
Motor & Pump P 457	CNEL	93.7		220.1	-57.8	2.6	-2.5	-1.7		0.0	0.0	0.0	6.7	40.9
Motor & Pump P 458	CNEL	93.7		232.4	-58.3	2.8	-3.2	-1.7		0.0	0.0	0.0	6.7	39.9
Motor & Pump P 459	CNEL	93.7		234.9	-58.4	2.8	-9.5	-1.2		0.0	0.0	0.0	6.7	34.0
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.4	-59.0	3.1	-20.1	-1.4		0.0	0.0	0.0	6.7	25.5
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		253.9	-59.1	3.2	-17.3	-1.1		0.0	0.0	0.0	6.7	28.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.9	-60.0	3.5	-10.7	-1.4	-0.25	0.0	3.9	0.0	6.7	37.0
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		282.9	-60.0	3.5	-11.1	-1.4	-0.26	0.0	4.2	0.0	6.7	36.9
Motor & Pump P 1601 A	CNEL	96.3	2	243.0	-58.7	2.9	-18.4	-1.1		0.0	0.0	0.0	6.7	27.7
Motor & Pump P 1601 B	CNEL	96.3	2	242.6	-58.7	2.9	-18.1	-1.1		0.0	0.0	0.0	6.7	28.0
Motor & Pump P 1602 A	CNEL	96.3	2	242.0	-58.7	2.9	-17.8	-1.1		0.0	0.0	0.0	6.7	28.3
Motor & Pump P 1602 B	CNEL	96.5	2	241.6	-58.7	2.9	-17.0	-1.1		0.0	0.0	0.0	6.7	29.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.4	-58.9	3.2	-17.7	-1.1	-0.08	0.0	0.0	0.0	6.7	28.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	253.9	-59.1	3.2	-14.6	-1.2	-0.20	0.0	0.0	0.0	6.7	31.5
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.2	-59.2	3.3	-13.4	-1.2	-0.25	0.0	0.0	0.0	6.7	32.5
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.0	-59.1	3.2	-17.5	-1.1		0.0	0.0	0.0	6.7	28.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.7	-59.2	3.2	-17.4	-1.1	-0.01	0.0	0.0	0.0	6.7	28.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.7	-59.2	3.3	-10.7	-1.3	-0.07	0.0	0.0	0.0	6.7	35.0
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.5	-59.3	3.3	-16.4	-1.2	-0.22	0.0	0.0	0.0	6.7	29.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.8	-59.3	3.3	-9.2	-1.4	-0.32	0.0	0.0	0.0	6.7	36.0
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.1	-59.3	3.3	-9.4	-1.3	-0.36	0.0	0.0	0.0	6.7	35.9
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	304.9	-60.7	3.2	-11.4	-1.1	-0.09	0.0	0.0	0.0	6.7	40.9
P-2 A/B	CNEL	98.5		229.3	-58.2	3.4	-2.9	-1.0	-0.65	0.0	0.9	0.0	6.7	46.7
P-50 A/B	CNEL	98.1		200.7	-57.0	3.2	-16.4	-0.6	-0.24	0.0	0.1	0.0	6.7	33.7
P-51 A/B	CNEL	98.1		199.1	-57.0	3.1	0.0	-1.0	-1.44	0.0	0.0	0.0	6.7	48.5
P-060 A/B	CNEL	98.1		204.7	-57.2	3.2	-20.1	-0.7	-1.60	0.0	0.0	0.0	6.7	28.4
P-63	CNEL	98.5		197.0	-56.9	3.1	-3.5	-0.8	-0.55	0.0	0.0	0.0	6.7	46.5
P-70 A/B	CNEL	98.1		202.9	-57.1	3.2	-18.1	-0.7	-1.57	0.0	0.0	0.0	6.7	30.5
P-73 A/B	CNEL	98.5		224.9	-58.0	3.4	-2.0	-1.1	-0.72	0.0	0.8	0.0	6.7	47.5
P-251 A/B	CNEL	98.2		110.0	-51.8	2.5	0.0	-0.6	-0.34	0.0	0.0	0.0	6.7	54.6
P-252 A/B	CNEL	98.2		121.3	-52.7	2.5	0.0	-0.7	-0.59	0.0	0.2	0.0	6.7	53.7
P-253	CNEL	98.2		125.0	-52.9	2.6	0.0	-0.7	-0.61	0.0	0.0	0.0	6.7	53.2
P-254 A/B	CNEL	98.2		115.8	-52.3	2.5	0.0	-0.6	-0.36	0.0	0.0	0.0	6.7	54.1
P-255 A/B	CNEL	98.2		114.0	-52.1	2.5	0.0	-0.6	-0.35	0.0	0.0	0.0	6.7	54.3
P-255 A/B	CNEL	98.2		107.0	-51.6	2.5	0.0	-0.6	-0.09	0.0	0.0	0.0	6.7	55.1
P-256 A/B	CNEL	98.2		111.8	-52.0	2.5	0.0	-0.6	-0.35	0.0	0.0	0.0	6.7	54.5
P-259 A/B	CNEL	98.2		108.5	-51.7	2.5	0.0	-0.6	-0.25	0.0	0.0	0.0	6.7	54.8
P-260	CNEL	99.1		114.2	-52.1	2.5	0.0	-0.6	-0.22	0.0	0.0	0.0	6.7	55.3
P-261 A/B	CNEL	98.0		109.6	-51.8	2.4	0.0	-0.6	-0.20	0.0	0.0	0.0	6.7	54.5
P-262 A/B	CNEL	99.1		112.0	-52.0	2.5	0.0	-0.6	-0.22	0.0	0.9	0.0	6.7	56.3
P-263 A/B	CNEL	99.4		113.2	-52.1	2.5	0.0	-0.6	-0.22	0.0	0.0	0.0	6.7	55.7
P-270 A/B	CNEL	98.5		145.1	-54.2	2.6	0.0	-0.8	-0.13	0.0	0.0	0.0	6.7	52.6
P-271 A/B	CNEL	98.2		121.5	-52.7	2.5	0.0	-0.7	-0.37	0.0	0.9	0.0	6.7	54.5
P-272 A/B	CNEL	98.2		118.7	-52.5	2.5	0.0	-0.7	-0.36	0.0	0.8	0.0	6.7	54.7
P-273 A/B	CNEL	98.5		142.5	-54.1	2.6	0.0	-0.8	-0.02	0.0	0.0	0.0	6.7	52.9
P-275 A/B/C	CNEL	98.2		131.4	-53.4	2.6	0.0	-0.7	-0.65	0.0	0.0	0.0	6.7	52.8
P-305	CNEL	99.3		125.8	-53.0	2.4	0.0	-0.7	-0.10	0.0	0.4	0.0	6.7	55.0
P-306	CNEL	100.8		135.1	-53.6	2.5	0.0	-0.7	-0.32	0.0	0.0	0.0	6.7	55.3
P-309	CNEL	99.3		128.1	-53.1	2.4	0.0	-0.7	-0.15	0.0	0.4	0.0	6.7	54.8
P-328	CNEL	100.8		140.6	-54.0	2.5	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	54.8
P-329	CNEL	100.8		138.0	-53.8	2.5	0.0	-0.7	-0.39	0.0	0.0	0.0	6.7	55.0
P-353	CNEL	98.5		133.2	-53.5	2.5	-12.6	-0.4	-0.17	0.0	10.4	0.0	6.7	51.3
P-358 A/B	CNEL	99.4		162.2	-55.2	2.6	-8.2	-0.6	-0.70	0.0	2.1	0.0	6.7	46.2
P-359 A/B	CNEL	99.4		160.0	-55.1	2.6	-11.0	-0.5	-0.70	0.0	0.0	0.0	6.7	41.5
P-360 A/B	CNEL	99.4		155.8	-54.8	2.6	-11.5	-0.5	-0.68	0.0	11.1	0.0	6.7	52.2
P-361A	CNEL	98.1		213.7	-57.6	2.9	-7.1	-0.8	-1.59	0.0	0.4	0.0	6.7	41.1
P-371 A/B	CNEL	98.0		196.9	-56.9	2.6	0.0	-1.0		0.0	0.0	0.0	6.7	49.3
P-373 A/B	CNEL	98.0		193.7	-56.7	2.6	-7.6	-0.8		0.0	1.7	0.0	6.7	43.9
P-374 A/B	CNEL	98.0		194.4	-56.8	2.6	-7.4	-0.7		0.0	2.2	0.0	6.7	44.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-375 A/B	CNEL	98.0		196.4	-56.9	2.6	-4.2	-0.8		0.0	1.2	0.0	6.7	46.6
P-376	CNEL	98.0		194.9	-56.8	2.6	-7.3	-0.8		0.0	2.2	0.0	6.7	44.6
P-376 A/B	CNEL	98.0		193.2	-56.7	2.6	-7.6	-0.8		0.0	1.7	0.0	6.7	43.9
P-377	CNEL	98.0		195.4	-56.8	2.6	-7.0	-0.8		0.0	2.1	0.0	6.7	44.8
P-1101 A	CNEL	98.9		225.8	-58.1	3.0	0.0	-1.1	-1.51	0.0	0.0	0.0	6.7	47.9
P-1103	CNEL	98.9		224.4	-58.0	3.0	0.0	-1.1	-1.51	0.0	0.0	0.0	6.7	47.9
P-1105 A/B/C	CNEL	98.9		231.1	-58.3	3.1	0.0	-1.2	-1.50	0.0	0.0	0.0	6.7	47.7
P-1800	CNEL	98.9		247.2	-58.9	3.5	-6.9	-1.0		0.0	2.4	0.0	6.7	44.7
P-1801	CNEL	98.9		296.9	-60.4	3.8	-4.7	-1.4		0.0	0.0	0.0	6.7	42.8
P-1802	CNEL	98.9		297.1	-60.4	3.8	-4.7	-1.4		0.0	0.0	0.0	6.7	42.8
P-1803	CNEL	99.1		229.0	-58.2	3.5	-13.3	-0.7	-1.75	0.0	11.6	0.0	6.7	46.9
P-1804	CNEL	99.1		233.2	-58.3	3.5	-10.0	-0.7	-1.66	0.0	0.3	0.0	6.7	38.8
P-1805	CNEL	99.1		236.1	-58.5	3.5	-8.5	-0.7	-1.66	0.0	0.6	0.0	6.7	40.6
P-1806	CNEL	99.1		208.6	-57.4	3.3	0.0	-1.1	-1.35	0.0	0.0	0.0	6.7	49.3
P-1809 A	CNEL	98.9		259.8	-59.3	3.6	-6.5	-1.1		0.0	0.1	0.0	6.7	42.4
P-1810 A/B/C	CNEL	99.0		243.6	-58.7	3.6	-13.2	-0.8	-1.69	0.0	1.3	0.0	6.7	36.3
P-1811 A/B	CNEL	99.1		214.2	-57.6	3.4	-3.1	-0.9	-1.42	0.0	0.0	0.0	6.7	46.1
P-1811 A/B	CNEL	99.1		239.6	-58.6	3.6	-12.0	-0.7	-1.66	0.0	2.8	0.0	6.7	39.1
P-1847 A/B	CNEL	99.4		263.8	-59.4	3.8	0.0	-1.3	-0.33	0.0	0.1	0.0	6.7	48.9
P-1849 A/B	CNEL	99.4		268.6	-59.6	3.9	0.0	-1.3	-0.44	0.0	0.1	0.0	6.7	48.7
P-1853	CNEL	99.1		91.8	-50.2	2.4	0.0	-0.5		0.0	1.9	0.0	6.7	59.2
Piping Furnace Tanks	CNEL	87.1	72	224.1	-58.0	2.5	-0.1	-7.1	-0.22	0.0	1.5	0.0	6.7	32.3
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	206.2	-57.3	2.4	-0.2	-6.9	-0.14	0.0	0.0	0.0	6.7	43.0
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	234.9	-58.4	2.6	-12.4	-1.8		0.0	0.2	0.0	6.7	51.4
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	233.3	-58.4	2.6	-15.2	-4.8		0.0	0.5	0.0	6.7	46.6
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	324.6	-61.2	2.8	-22.2	-1.2		0.0	0.5	0.0	6.7	35.9
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	315.6	-61.0	2.8	-19.3	-1.0		0.0	8.3	0.0	6.7	47.6
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	288.5	-60.2	2.6	-14.4	-0.9		0.0	0.0	0.0	6.7	37.8
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	293.8	-60.4	2.7	-9.4	-1.2		0.0	0.2	0.0	6.7	49.8
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	278.6	-59.9	2.7	-8.0	-1.2		0.0	0.1	0.0	6.7	44.4
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	295.0	-60.4	2.6	-14.7	-0.9		0.0	0.0	0.0	6.7	37.0
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	279.8	-59.9	2.7	-3.5	-1.4	-0.31	0.0	0.0	0.0	6.7	51.0
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	278.2	-59.9	2.6	-9.2	-1.1	-0.04	0.0	0.8	0.0	6.7	46.1
Pre-Treat Train-Roof 01	CNEL	113.1	2037	302.6	-60.6	2.4	-5.1	-1.4		0.0	0.9	0.0	6.7	55.9
PSA Pipe 3" Lagging	CNEL	80.6	11	233.6	-58.4	2.4	-16.3	-1.4		0.0	0.2	0.0	6.7	13.8
PSA Skid Additional Piping w NC	CNEL	116.6	57	235.1	-58.4	2.6	-13.1	-1.8		0.0	0.3	0.0	6.7	52.8
Reformer-Burner Reformer East	CNEL	97.3	269	242.5	-58.7	2.4	-20.8	-1.2		0.0	0.0	0.0	6.7	28.7
Reformer-Burner Reformer North	CNEL	95.9	192	234.2	-58.4	2.4	-0.6	-1.8	-0.04	0.0	0.0	0.0	6.7	44.1
Reformer-Burner Reformer South	CNEL	95.8	191	236.5	-58.5	2.5	-9.4	-1.0		0.0	0.0	0.0	6.7	39.1
Reformer-Burner Reformer West	CNEL	97.3	268	229.0	-58.2	2.4	-0.5	-1.8	-0.06	0.0	0.0	0.0	6.7	48.8
RFG A from battery to process	CNEL	99.4	87	205.6	-57.3	2.5	-0.2	-6.8	-0.19	0.0	0.4	0.0	6.7	44.5
RFG A from battery to process w NC	CNEL	115.2	42	236.1	-58.5	2.6	-13.7	-5.2		0.0	0.5	0.0	6.7	47.6
Stack Noise	CNEL	108.4		245.9	-58.8	2.3	-0.7	-1.9		-7.3	0.0	0.0	6.7	48.7
Steam Turbine-Facade 01	CNEL	99.6	29	217.2	-57.7	2.8	-5.6	-4.3		0.0	0.1	0.0	6.7	41.5
Steam Turbine-Facade 02	CNEL	96.2	13	218.6	-57.8	2.8	-5.5	-4.3		0.0	2.7	0.0	6.7	40.9
Steam Turbine-Facade 03	CNEL	99.6	29	220.9	-57.9	2.8	-21.7	-2.6		0.0	11.1	0.0	6.7	37.9
Steam Turbine-Facade 04	CNEL	96.2	13	219.5	-57.8	2.7	-18.0	-3.1		0.0	1.2	0.0	6.7	27.9
Steam Turbine-Roof 01	CNEL	99.7	30	219.0	-57.8	2.6	-4.5	-4.4		0.0	2.4	0.0	6.7	44.6
Tank Farm Pump 1	CNEL	99.0	3	270.9	-59.6	3.6	0.0	-2.0	-0.34	0.0	0.8	0.0	6.7	48.0
Tank Farm Pump 2	CNEL	99.0	3	285.5	-60.1	3.7	0.0	-2.1	-0.18	0.0	0.0	0.0	6.7	47.0
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	3.7	0.0	-2.1	-0.22	0.0	0.0	0.0	6.7	46.8
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	209.6	-57.4	1.3	-0.2	-2.5		0.0	0.5	-13.8	0.0	40.3
XF-1502 Splitter Area 1	CNEL	104.5		256.9	-59.2	2.1	-3.3	-1.6	-0.22	-4.1	0.0	0.0	6.7	44.9
XF-1502 Splitter Area 2	CNEL	104.5		253.3	-59.1	2.1	-14.0	-1.0	0.00	-3.1	0.0	0.0	6.7	36.1
XF-1504 Splitter Area 1	CNEL	104.5		255.3	-59.1	2.1	-0.5	-1.9	-0.07	-4.5	0.0	0.0	6.7	47.2
XF-1504 Splitter Area 2	CNEL	104.5		251.8	-59.0	2.1	-1.9	-1.7	-0.07	-4.2	0.0	0.0	6.7	46.5
XF 251, 250, 271, 270	CNEL	101.1	128	125.8	-53.0	2.0	0.0	-0.6	-0.34	-3.1	0.0	0.0	6.7	52.8
XF 260, 261A, 261 B	CNEL	99.9	97	105.2	-51.4	1.8	0.0	-0.5	-0.04	-3.1	0.0	0.0	6.7	53.2
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	1.8	-2.7	-1.1	-0.14	-3.1	0.2	0.0	6.7	51.2
XF 313, XF 314	CNEL	113.0	18	338.0	-61.6	2.3	-5.1	-1.0	-0.09	-3.4	0.1	0.0	6.7	50.9
XF 335-1, XF 335-2	CNEL	113.4	54	321.8	-61.1	2.0	-3.2	-1.6	-0.13	-3.3	0.1	0.0	6.7	52.8
XF 353A/B	CNEL	95.4	35	164.5	-55.3	2.1	-4.6	-0.4	-0.02	-2.6	0.9	0.0	6.7	42.1
XF 353A/B	CNEL	95.4	35	164.7	-55.3	2.2	-0.1	-0.7	-0.02	-3.1	0.0	0.0	6.7	45.0
XF 354A/B	CNEL	95.4	35	128.3	-53.2	1.8	-2.9	-0.4	-0.03	-2.8	0.7	0.0	6.7	45.2
XF 503	CNEL	113.0	21	258.2	-59.2	1.9	-1.4	-2.5	-0.82	-3.8	0.0	0.0	6.7	53.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF - 1601	CNEL	96.6		241.3	-58.6	2.1	0.0	-0.8		-2.6	0.0	0.0	6.7	43.3	
XF - 1602	CNEL	96.6		239.7	-58.6	2.1	0.0	-0.8		-2.6	0.0	0.0	6.7	43.4	
XF Module 1510	CNEL	108.3		251.9	-59.0	2.1	-4.9	-1.5	-0.11	-4.0	0.0	0.0	6.7	47.5	
XF Module 1519	CNEL	109.0		256.9	-59.2	2.1	-4.7	-1.5	-0.22	-4.0	0.0	0.0	6.7	48.1	
xxxx xxxx xxxx xxxx	CNEL		606								0.4			30.5	
xxxx xxxx xxxx xxxx	CNEL		606								0.4			30.4	
xxxx xxxx xxxx xxxx	CNEL		917								1.3			48.3	
xxxx xxxx xxxx xxxx	CNEL		917								1.4			47.9	
xxxx xxxx xxxx xxxx	CNEL		608								2.7			32.2	
xxxx xxxx xxxx xxxx	CNEL		608								2.6			32.2	
xxxx xxxx xxxx xxxx	CNEL		228								3.7			26.3	
xxxx xxxx xxxx xxxx	CNEL		520								3.3			30.1	
xxxx xxxx xxxx xxxx	CNEL		1341								1.6			47.0	
xxxx xxxx xxxx xxxx	CNEL		450								6.6			39.2	
Receiver SS-6 Fl F3 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 66.6 dB(A)			Ld 7-19 dB(A)		Leq,N 66.1 dB(A)			Le 19-22 dB(A)		CNEL 72.8 dB(A)		Lmax day hr dB(A)	Ld 7-1
ID Fan Motor	CNEL	104.4	2	245.8	-58.8	2.8	-15.2	-1.1		0.0	0.9	0.0	6.7	39.5	
18-1855 A/B	CNEL	98.8		162.5	-55.2	2.7	0.0	-0.9	-0.56	0.0	0.0	0.0	6.7	51.5	
18-1856 A/B	CNEL	98.8		165.4	-55.4	2.7	0.0	-0.9	-0.77	0.0	0.0	0.0	6.7	51.1	
18-1857 A/B	CNEL	98.8		160.1	-55.1	2.7	0.0	-0.8	-0.43	0.0	0.0	0.0	6.7	51.8	
18-1858 A/B	CNEL	98.8		158.3	-55.0	2.7	0.0	-0.8	-0.43	0.0	0.0	0.0	6.7	51.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		157.9	-55.0	2.7	0.0	-0.5	-0.92	0.0	0.1	0.0	6.7	56.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	98.3	-50.8	1.3	-0.2	-1.9		0.0	0.2	-4.8	1.0	53.9	
Air Compressor C 1	CNEL	110.0	5	314.9	-61.0	3.1	-4.3	-0.9	-0.52	0.0	1.5	0.0	6.7	54.5	
Air Compressor Pump	CNEL	100.3		139.6	-53.9	2.5	-18.7	-1.8		0.0	7.4	0.0	6.7	42.5	
Blower F 401	CNEL	113.0		213.1	-57.6	2.3	-12.2	-0.3		0.0	1.2	0.0	6.7	53.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	139.2	-53.9	2.4	-8.9	-0.4		0.0	0.0	0.0	6.7	44.5	
Boiler Feed Water Pump A	CNEL	97.1	3	187.6	-56.5	2.7	-2.1	-1.0	-0.46	0.0	0.0	0.0	6.7	46.4	
Boiler Feed Water Pump B	CNEL	97.1	3	184.5	-56.3	2.7	-4.3	-0.8	-0.51	0.0	0.0	0.0	6.7	44.5	
C370 A Motor	CNEL	103.6	3	183.7	-56.3	2.6	-5.9	-1.1		0.0	1.7	0.0	6.7	51.4	
C370 B Motor	CNEL	108.6	3	183.0	-56.2	2.7	-6.5	-1.0		0.0	1.8	0.0	6.7	56.0	
C370A	CNEL	103.8	5	188.1	-56.5	2.7	-5.2	-1.2		0.0	1.4	0.0	6.7	51.6	
C370B	CNEL	103.8	5	187.5	-56.5	2.7	-5.3	-1.2		0.0	1.4	0.0	6.7	51.6	
C-270 A	CNEL	106.3	6	133.4	-53.5	2.5	-7.2	-0.7	-0.18	0.0	0.1	0.0	6.7	53.9	
C-270 B	CNEL	106.3	6	129.4	-53.2	2.4	-7.2	-0.7	-0.06	0.0	0.1	0.0	6.7	54.2	
C-270 C	CNEL	106.3	6	125.6	-53.0	2.3	-8.6	-0.6		0.0	0.1	0.0	6.7	53.3	
C-301 Compressor	CNEL	106.8	3	161.2	-55.1	2.6	-5.5	-1.0	-0.62	0.0	0.1	0.0	6.7	54.0	
C-301 Motor	CNEL	106.8	4	158.3	-55.0	2.6	-6.4	-1.2	-0.55	0.0	0.1	0.0	6.7	53.0	
C-351 Compressor	CNEL	106.8	4	152.8	-54.7	2.6	-3.0	-1.0	-0.46	0.0	0.0	0.0	6.7	57.0	
C-351 Motor	CNEL	106.8	5	150.1	-54.5	2.4	-4.2	-1.9	-0.33	0.0	0.0	0.0	6.7	54.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	99.7	-51.0	0.6	-0.3	-0.3		0.0	0.2	-35.6	0.0	48.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	263.8	-59.4	2.4	-11.3	-1.0	-0.86	2.8	3.0	0.0	6.7	46.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	265.7	-59.5	2.5	-2.3	-2.1	-1.17	0.0	0.3	0.0	6.7	44.9	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	274.7	-59.8	2.4	-14.8	-0.7	-0.96	-7.8	12.0	0.0	6.7	43.6	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	267.7	-59.5	2.3	-10.0	-1.1	-0.66	2.0	0.0	0.0	6.7	50.4	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	264.7	-59.4	2.4	-8.0	-1.0	-1.04	1.7	0.8	0.0	6.7	46.0	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	277.8	-59.9	2.3	-14.3	-0.8	-0.46	-7.5	0.2	0.0	6.7	26.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	231.5	-58.3	2.6	-10.1	-0.6		4.1	0.0	0.0	6.7	42.2	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	236.1	-58.5	2.6	-17.4	-0.6		-5.9	0.0	0.0	6.7	24.7	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	222.7	-57.9	2.6	0.0	-1.4		4.5	0.0	0.0	6.7	54.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	228.0	-58.2	2.6	-13.6	-0.7		-5.2	0.0	0.0	6.7	32.2	
Cooling Tower M 512	CNEL	95.7		227.8	-58.1	2.6	-16.3	-0.8		0.0	1.4	0.0	6.7	31.1	
Cooling Tower M 513	CNEL	95.7		228.3	-58.2	2.6	-15.7	-0.8		0.0	1.3	0.0	6.7	31.6	
Cooling Tower M 514	CNEL	95.7		227.1	-58.1	2.6	-16.6	-0.8		0.0	1.4	0.0	6.7	31.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	209.2	-57.4	2.4	0.0	-0.8		-2.9	0.2	0.0	6.7	44.0	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	250.1	-59.0	2.8	-2.1	-0.1		0.0	0.0	0.0	6.7	43.7	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	251.9	-59.0	2.8	-2.9	-0.1		0.0	0.7	0.0	6.7	41.4	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	249.9	-58.9	2.8	-4.0	-0.2		0.0	0.0	0.0	6.7	39.9	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	247.7	-58.9	2.8	-1.6	-0.2		0.0	0.0	0.0	6.7	42.0	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	249.5	-58.9	2.8	-1.1	-0.2		0.0	0.7	0.0	6.7	45.3	
FD Motor	CNEL	103.3	2	250.5	-59.0	2.8	-0.4	-2.5		0.0	0.0	0.0	6.7	50.9	
Feed Compressor -B Motor	CNEL	103.8	5	174.9	-55.8	2.7	-6.0	-1.6	-0.41	0.0	0.0	0.0	6.7	49.3	
Feed Compressor-A Compressor	CNEL	104.0	5	178.6	-56.0	2.7	-7.1	-0.9	-0.39	0.0	0.0	0.0	6.7	48.9	
Feed Compressor-A Motor	CNEL	103.8	6	173.3	-55.8	2.7	-7.2	-1.4	-0.41	0.0	0.0	0.0	6.7	48.4	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor-B Compressor	CNEL	104.0	7	180.7	-56.1	2.7	-5.5	-1.1	-0.39	0.0	1.6	0.0	6.7	51.8
H2S Compressor 18-C-271	CNEL	105.3	6	283.2	-60.0	2.6	-3.1	-1.7	-0.44	0.0	0.8	0.0	6.7	50.1
Heater # 5-Heater	CNEL	91.1	13	138.0	-53.8	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	48.7
Heater # 5-Heater	CNEL	91.1	13	133.0	-53.5	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	49.0
Heater # 5-Heater	CNEL	91.1	13	142.9	-54.1	2.4	0.0	-0.7		0.0	0.0	0.0	6.7	48.4
Hydro Heater H-402	CNEL	98.1		239.6	-58.6	2.5	-1.7	-0.9		0.0	0.0	0.0	6.7	46.1
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	244.2	-58.7	2.9	-8.1	-0.1		0.0	0.0	0.0	6.7	29.6
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	242.0	-58.7	2.9	-3.5	-0.1		0.0	0.0	0.0	6.7	34.6
ID Fan-ID Fan - North	CNEL	92.2	8	244.3	-58.7	2.9	-8.6	-0.1		0.0	0.1	0.0	6.7	34.5
ID Fan-ID Fan - North 2	CNEL	91.4	7	244.2	-58.7	2.9	-8.2	-0.1		0.0	0.2	0.0	6.7	34.2
ID Fan-ID Fan - South	CNEL	92.3	9	241.2	-58.6	2.9	0.0	-0.1	-0.13	0.0	0.0	0.0	6.7	43.0
ID Fan-ID Fan - South 2	CNEL	91.4	7	242.8	-58.7	2.9	-0.3	-0.1	-0.12	0.0	0.0	0.0	6.7	41.7
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	242.9	-58.7	2.9	-4.7	-0.1		0.0	0.0	0.0	6.7	40.1
Motor & Pump P 56A/B	CNEL	93.7		257.4	-59.2	2.6	-1.8	-2.0	-0.28	0.0	0.2	0.0	6.7	39.7
Motor & Pump P 120/121	CNEL	96.2	2	303.2	-60.6	2.9	-17.3	-1.0	-0.50	0.0	0.0	0.0	6.7	26.3
Motor & Pump P 211/212	CNEL	93.7		246.4	-58.8	2.4	-7.7	-1.3	-0.75	0.0	0.0	0.0	6.7	34.1
Motor & Pump P 215/214	CNEL	94.6		250.8	-59.0	2.5	-3.7	-1.8	-0.85	0.0	0.0	0.0	6.7	38.5
Motor & Pump P 216	CNEL	98.3		250.7	-59.0	2.4	-4.8	-1.9	-0.74	0.0	0.0	0.0	6.7	41.0
Motor & Pump P 217/218	CNEL	93.7		248.2	-58.9	2.4	-7.7	-1.3	-0.80	0.0	0.0	0.0	6.7	34.1
Motor & Pump P 300	CNEL	97.1	2	310.7	-60.8	3.0	-13.7	-1.0	-0.48	0.0	0.4	0.0	6.7	31.1
Motor & Pump P 301	CNEL	102.1	2	309.2	-60.8	3.0	-13.7	-1.0	-0.48	0.0	0.8	0.0	6.7	36.6
Motor & Pump P 302	CNEL	97.1	2	312.3	-60.9	3.0	-15.0	-1.0	-0.19	0.0	0.3	0.0	6.7	30.0
Motor & Pump P 303	CNEL	97.1	2	313.6	-60.9	3.0	-14.8	-1.0	-0.19	0.0	0.4	0.0	6.7	30.3
Motor & Pump P 305	CNEL	97.5	2	314.9	-61.0	3.0	-13.6	-1.0	-0.38	0.0	0.2	0.0	6.7	31.5
Motor & Pump P 306	CNEL	112.6	4	323.0	-61.2	2.9	-16.1	-0.9	-0.36	0.0	0.7	0.0	6.7	44.5
Motor & Pump P 307	CNEL	102.1	2	304.9	-60.7	2.9	-11.5	-1.0	-0.47	0.0	0.7	0.0	6.7	38.7
Motor & Pump P 309	CNEL	97.5	2	316.3	-61.0	3.0	-13.9	-1.0	-0.32	0.0	0.1	0.0	6.7	31.1
Motor & Pump P 312	CNEL	101.5	2	285.9	-60.1	2.8	-4.2	-1.1	-0.87	0.0	0.5	0.0	6.7	45.2
Motor & Pump P 313	CNEL	101.5	2	284.3	-60.1	2.8	-2.2	-1.3	-0.90	0.0	0.8	0.0	6.7	47.3
Motor & Pump P 315	CNEL	102.9	2	279.0	-59.9	2.6	-4.7	-1.1	-1.06	0.0	0.0	0.0	6.7	45.4
Motor & Pump P 316	CNEL	102.9	2	277.3	-59.9	2.6	-2.9	-1.2	-1.09	0.0	0.8	0.0	6.7	47.9
Motor & Pump P 317	CNEL	102.9	2	275.5	-59.8	2.5	-2.9	-1.2	-1.13	0.0	1.5	0.0	6.7	48.6
Motor & Pump P 318	CNEL	100.2	1	280.4	-59.9	2.8	-3.6	-1.1	-1.00	0.0	0.0	0.0	6.7	44.1
Motor & Pump P 319	CNEL	100.2	1	281.7	-60.0	2.8	-2.8	-1.1	-0.96	0.0	0.0	0.0	6.7	44.8
Motor & Pump P 327	CNEL	111.2	3	330.4	-61.4	3.1	-21.2	-1.9	-0.13	0.0	3.7	0.0	6.7	40.1
Motor & Pump P 328	CNEL	109.9	5	317.8	-61.0	2.9	-14.6	-1.0	-0.24	0.0	0.2	0.0	6.7	42.8
Motor & Pump P 329	CNEL	110.2	5	320.3	-61.1	2.9	-16.9	-1.1	-0.11	0.0	0.8	0.0	6.7	41.3
Motor & Pump P 451	CNEL	93.7		233.0	-58.3	2.5	-8.9	-1.3		0.0	0.0	0.0	6.7	34.3
Motor & Pump P 453	CNEL	93.7		221.5	-57.9	2.5	-2.7	-1.7		0.0	0.0	0.0	6.7	40.5
Motor & Pump P 454	CNEL	93.7		234.1	-58.4	2.5	-8.5	-1.1		0.0	0.0	0.0	6.7	34.9
Motor & Pump P 457	CNEL	93.7		220.2	-57.8	2.5	-2.2	-1.8		0.0	0.0	0.0	6.7	41.0
Motor & Pump P 458	CNEL	93.7		232.4	-58.3	2.5	-2.9	-1.7		0.0	0.0	0.0	6.7	39.9
Motor & Pump P 459	CNEL	93.7		235.0	-58.4	2.5	-9.5	-1.2		0.0	0.0	0.0	6.7	33.8
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		252.4	-59.0	2.6	-20.1	-1.4		0.0	0.0	0.0	6.7	25.0
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		254.0	-59.1	2.6	-17.0	-1.1		0.0	0.0	0.0	6.7	28.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		281.9	-60.0	2.8	-10.7	-1.4	-0.25	0.0	4.0	0.0	6.7	36.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		283.0	-60.0	2.8	-11.1	-1.4	-0.25	0.0	4.3	0.0	6.7	36.3
Motor & Pump P 1601 A	CNEL	96.3	2	243.1	-58.7	2.7	-16.0	-1.2		0.0	0.0	0.0	6.7	29.7
Motor & Pump P 1601 B	CNEL	96.3	2	242.6	-58.7	2.7	-15.9	-1.2		0.0	0.0	0.0	6.7	29.9
Motor & Pump P 1602 A	CNEL	96.3	2	242.1	-58.7	2.7	-15.7	-1.2		0.0	0.0	0.0	6.7	30.1
Motor & Pump P 1602 B	CNEL	96.5	2	241.7	-58.7	2.7	-15.2	-1.2		0.0	0.0	0.0	6.7	30.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	249.4	-58.9	2.6	-17.4	-1.1	-0.08	0.0	0.0	0.0	6.7	28.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	254.0	-59.1	2.6	-14.4	-1.1	-0.20	0.0	0.0	0.0	6.7	31.1
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	256.3	-59.2	2.6	-13.2	-1.2	-0.25	0.0	0.0	0.0	6.7	32.1
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	255.1	-59.1	2.6	-17.1	-1.1		0.0	0.0	0.0	6.7	28.6
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	256.8	-59.2	2.6	-17.0	-1.1	-0.01	0.0	0.0	0.0	6.7	28.7
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	258.8	-59.3	2.7	-9.9	-1.3	-0.07	0.0	0.0	0.0	6.7	35.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.5	-59.3	2.7	-15.7	-1.2	-0.22	0.0	0.0	0.0	6.7	29.2
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	260.8	-59.3	2.6	-9.1	-1.4	-0.32	0.0	0.0	0.0	6.7	35.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	260.2	-59.3	2.7	-9.1	-1.3	-0.36	0.0	0.0	0.0	6.7	35.5
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	305.0	-60.7	2.6	-11.1	-1.0	-0.10	0.0	0.0	0.0	6.7	40.6
P-2 A/B	CNEL	98.5		229.4	-58.2	2.7	-2.7	-1.1	-0.65	0.0	1.1	0.0	6.7	46.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-50 A/B	CNEL	98.1		200.8	-57.0	2.7	-16.4	-0.6	-0.24	0.0	0.1	0.0	6.7	33.2
P-51 A/B	CNEL	98.1		199.2	-57.0	2.7	0.0	-1.0	-1.44	0.0	0.0	0.0	6.7	48.0
P-060 A/B	CNEL	98.1		204.8	-57.2	2.7	-20.1	-0.7	-1.60	0.0	0.1	0.0	6.7	27.9
P-63	CNEL	98.5		197.1	-56.9	2.6	-2.8	-0.9	-0.54	0.0	0.0	0.0	6.7	46.7
P-70 A/B	CNEL	98.1		202.9	-57.1	2.7	-18.0	-0.7	-1.55	0.0	0.0	0.0	6.7	30.1
P-73 A/B	CNEL	98.5		225.0	-58.0	2.7	-1.9	-1.1	-0.72	0.0	0.9	0.0	6.7	47.0
P-251 A/B	CNEL	98.2		110.2	-51.8	2.5	0.0	-0.6	-0.34	0.0	0.1	0.0	6.7	54.6
P-252 A/B	CNEL	98.2		121.5	-52.7	2.6	0.0	-0.7	-0.59	0.0	0.2	0.0	6.7	53.7
P-253	CNEL	98.2		125.2	-52.9	2.6	0.0	-0.7	-0.61	0.0	0.0	0.0	6.7	53.2
P-254 A/B	CNEL	98.2		116.0	-52.3	2.5	0.0	-0.6	-0.36	0.0	0.0	0.0	6.7	54.2
P-255 A/B	CNEL	98.2		114.2	-52.1	2.5	0.0	-0.6	-0.35	0.0	0.0	0.0	6.7	54.3
P-255 A/B	CNEL	98.2		107.2	-51.6	2.5	0.0	-0.6	-0.09	0.0	0.0	0.0	6.7	55.1
P-256 A/B	CNEL	98.2		111.9	-52.0	2.5	0.0	-0.6	-0.35	0.0	0.0	0.0	6.7	54.5
P-259 A/B	CNEL	98.2		108.7	-51.7	2.5	0.0	-0.6	-0.25	0.0	0.1	0.0	6.7	54.8
P-260	CNEL	99.1		114.4	-52.2	2.5	0.0	-0.6	-0.22	0.0	0.0	0.0	6.7	55.3
P-261 A/B	CNEL	98.0		109.8	-51.8	2.5	0.0	-0.6	-0.21	0.0	0.0	0.0	6.7	54.5
P-262 A/B	CNEL	99.1		112.2	-52.0	2.5	0.0	-0.6	-0.22	0.0	0.8	0.0	6.7	56.3
P-263 A/B	CNEL	99.4		113.3	-52.1	2.5	0.0	-0.6	-0.22	0.0	0.0	0.0	6.7	55.7
P-270 A/B	CNEL	98.5		145.3	-54.2	2.6	0.0	-0.8	-0.13	0.0	0.0	0.0	6.7	52.7
P-271 A/B	CNEL	98.2		121.6	-52.7	2.6	0.0	-0.7	-0.37	0.0	0.9	0.0	6.7	54.6
P-272 A/B	CNEL	98.2		118.8	-52.5	2.5	0.0	-0.7	-0.37	0.0	0.8	0.0	6.7	54.7
P-273 A/B	CNEL	98.5		142.6	-54.1	2.6	0.0	-0.8	-0.02	0.0	0.0	0.0	6.7	52.9
P-275 A/B/C	CNEL	98.2		131.5	-53.4	2.6	0.0	-0.7	-0.65	0.0	0.1	0.0	6.7	52.8
P-305	CNEL	99.3		126.0	-53.0	2.4	0.0	-0.7	-0.10	0.0	0.3	0.0	6.7	55.0
P-306	CNEL	100.8		135.3	-53.6	2.5	0.0	-0.7	-0.32	0.0	0.0	0.0	6.7	55.3
P-309	CNEL	99.3		128.2	-53.2	2.5	0.0	-0.7	-0.15	0.0	0.3	0.0	6.7	54.8
P-328	CNEL	100.8		140.7	-54.0	2.5	0.0	-0.8	-0.45	0.0	0.0	0.0	6.7	54.8
P-329	CNEL	100.8		138.1	-53.8	2.5	0.0	-0.7	-0.39	0.0	0.0	0.0	6.7	55.0
P-353	CNEL	98.5		133.3	-53.5	2.5	-12.3	-0.4	-0.17	0.0	10.1	0.0	6.7	51.3
P-358 A/B	CNEL	99.4		162.4	-55.2	2.6	-7.9	-0.6	-0.70	0.0	2.3	0.0	6.7	46.6
P-359 A/B	CNEL	99.4		160.1	-55.1	2.6	-10.5	-0.5	-0.70	0.0	0.0	0.0	6.7	41.9
P-360 A/B	CNEL	99.4		156.0	-54.9	2.6	-11.0	-0.5	-0.68	0.0	10.5	0.0	6.7	52.2
P-361A	CNEL	98.1		213.8	-57.6	2.7	-6.2	-0.8	-1.59	0.0	0.6	0.0	6.7	41.9
P-371 A/B	CNEL	98.0		197.0	-56.9	2.6	0.0	-1.0		0.0	0.0	0.0	6.7	49.4
P-373 A/B	CNEL	98.0		193.8	-56.7	2.6	-6.5	-0.8		0.0	1.8	0.0	6.7	45.2
P-374 A/B	CNEL	98.0		194.5	-56.8	2.6	-6.4	-0.8		0.0	1.7	0.0	6.7	45.0
P-375 A/B	CNEL	98.0		196.5	-56.9	2.6	-3.7	-0.9		0.0	1.0	0.0	6.7	46.8
P-376	CNEL	98.0		195.0	-56.8	2.6	-6.3	-0.8		0.0	1.6	0.0	6.7	45.0
P-376 A/B	CNEL	98.0		193.3	-56.7	2.6	-6.5	-0.8		0.0	1.8	0.0	6.7	45.1
P-377	CNEL	98.0		195.5	-56.8	2.6	-5.9	-0.8		0.0	1.5	0.0	6.7	45.2
P-1101 A	CNEL	98.9		225.9	-58.1	2.7	0.0	-1.1	-1.51	0.0	0.0	0.0	6.7	47.5
P-1103	CNEL	98.9		224.5	-58.0	2.7	0.0	-1.1	-1.51	0.0	0.0	0.0	6.7	47.6
P-1105 A/B/C	CNEL	98.9		231.2	-58.3	2.7	0.0	-1.2	-1.50	0.0	0.0	0.0	6.7	47.3
P-1800	CNEL	98.9		247.2	-58.9	2.7	-5.0	-1.2		0.0	2.0	0.0	6.7	45.1
P-1801	CNEL	98.9		296.9	-60.4	3.2	-4.6	-1.4		0.0	0.0	0.0	6.7	42.3
P-1802	CNEL	98.9		297.1	-60.5	3.2	-4.6	-1.4		0.0	0.0	0.0	6.7	42.3
P-1803	CNEL	99.1		229.1	-58.2	2.7	-10.3	-0.8	-1.74	0.0	9.2	0.0	6.7	46.7
P-1804	CNEL	99.1		233.3	-58.3	2.7	-9.0	-0.8	-1.66	0.0	0.4	0.0	6.7	39.2
P-1805	CNEL	99.1		236.2	-58.5	2.7	-6.6	-0.8	-1.65	0.0	0.7	0.0	6.7	41.7
P-1806	CNEL	99.1		208.6	-57.4	2.7	0.0	-1.1	-1.36	0.0	0.0	0.0	6.7	48.7
P-1809 A	CNEL	98.9		259.9	-59.3	2.8	-4.9	-1.2		0.0	0.1	0.0	6.7	43.0
P-1810 A/B/C	CNEL	99.0		243.7	-58.7	2.7	-10.8	-0.8	-1.69	0.0	1.8	0.0	6.7	38.2
P-1811 A/B	CNEL	99.1		214.3	-57.6	2.7	-2.9	-1.0	-1.42	0.0	0.0	0.0	6.7	45.6
P-1811 A/B	CNEL	99.1		239.7	-58.6	2.7	-11.4	-0.7	-1.65	0.0	4.3	0.0	6.7	40.4
P-1847 A/B	CNEL	99.4		263.8	-59.4	3.0	0.0	-1.3	-0.33	0.0	0.1	0.0	6.7	48.2
P-1849 A/B	CNEL	99.4		268.6	-59.6	3.0	0.0	-1.3	-0.44	0.0	0.2	0.0	6.7	47.9
P-1853	CNEL	99.1		92.0	-50.3	2.4	0.0	-0.5		0.0	1.9	0.0	6.7	59.2
Piping Furnace Tanks	CNEL	87.1	72	224.1	-58.0	2.6	0.0	-6.8		0.0	1.4	0.0	6.7	33.0
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	206.2	-57.3	2.5	-0.1	-6.5		0.0	0.0	0.0	6.7	43.8
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	235.0	-58.4	2.7	-11.8	-1.8		0.0	0.2	0.0	6.7	52.1
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	233.3	-58.4	2.7	-14.5	-5.0		0.0	0.5	0.0	6.7	47.3
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	324.6	-61.2	2.7	-21.5	-1.2		0.0	0.6	0.0	6.7	36.6
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	315.6	-61.0	2.7	-19.2	-1.0		0.0	9.3	0.0	6.7	48.6
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	288.5	-60.2	2.7	-14.4	-0.9		0.0	0.0	0.0	6.7	37.9
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	293.8	-60.4	2.7	-8.1	-1.3		0.0	0.2	0.0	6.7	51.0
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	278.5	-59.9	2.7	-7.1	-1.2		0.0	0.1	0.0	6.7	45.2
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	295.0	-60.4	2.7	-14.5	-0.9		0.0	0.0	0.0	6.7	37.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	279.8	-59.9	2.7	-2.7	-1.3	-0.06	0.0	0.0	0.0	6.7	52.0	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	278.2	-59.9	2.7	-8.7	-1.2	-0.03	0.0	1.0	0.0	6.7	46.7	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	302.5	-60.6	2.6	-5.0	-1.4		0.0	0.8	0.0	6.7	56.2	
PSA Pipe 3" Lagging	CNEL	80.6	11	233.6	-58.4	2.5	-16.3	-1.4		0.0	0.2	0.0	6.7	14.0	
PSA Skid Additional Piping w NC	CNEL	116.6	57	235.1	-58.4	2.7	-12.5	-1.9		0.0	0.3	0.0	6.7	53.5	
Reformer-Burner Reformer East	CNEL	97.3	269	242.4	-58.7	2.5	-20.8	-1.2		0.0	0.0	0.0	6.7	28.9	
Reformer-Burner Reformer North	CNEL	95.9	192	234.2	-58.4	2.6	-0.3	-1.8		0.0	0.0	0.0	6.7	44.6	
Reformer-Burner Reformer South	CNEL	95.8	191	236.4	-58.5	2.6	-9.4	-1.0		0.0	0.0	0.0	6.7	39.3	
Reformer-Burner Reformer West	CNEL	97.3	268	229.0	-58.2	2.6	-0.1	-1.8		0.0	0.0	0.0	6.7	49.4	
RFG A from battery to process	CNEL	99.4	87	205.6	-57.3	2.5	0.0	-6.4		0.0	0.4	0.0	6.7	45.3	
RFG A from battery to process w NC	CNEL	115.2	42	236.1	-58.5	2.7	-12.8	-5.4		0.0	0.5	0.0	6.7	48.4	
Stack Noise	CNEL	108.4		245.6	-58.8	2.6	-0.7	-1.8		-7.2	0.0	0.0	6.7	49.2	
Steam Turbine-Facade 01	CNEL	99.6	29	217.3	-57.7	2.7	-4.8	-4.4		0.0	0.1	0.0	6.7	42.2	
Steam Turbine-Facade 02	CNEL	96.2	13	218.6	-57.8	2.7	-4.5	-4.3		0.0	2.4	0.0	6.7	41.4	
Steam Turbine-Facade 03	CNEL	99.6	29	220.9	-57.9	2.7	-17.3	-2.8		0.0	9.7	0.0	6.7	40.7	
Steam Turbine-Facade 04	CNEL	96.2	13	219.6	-57.8	2.7	-12.7	-3.4		0.0	1.1	0.0	6.7	32.8	
Steam Turbine-Roof 01	CNEL	99.7	30	219.1	-57.8	2.7	-4.5	-4.8		0.0	2.6	0.0	6.7	44.6	
Tank Farm Pump 1	CNEL	99.0	3	271.0	-59.7	2.8	0.0	-2.0	-0.33	0.0	0.9	0.0	6.7	47.4	
Tank Farm Pump 2	CNEL	99.0	3	285.6	-60.1	2.9	0.0	-2.1	-0.18	0.0	0.0	0.0	6.7	46.2	
Tank Farm Pump 3	CNEL	99.0	3	289.6	-60.2	2.9	0.0	-2.1	-0.22	0.0	0.0	0.0	6.7	46.1	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	209.8	-57.4	1.3	-0.1	-2.5		0.0	0.5	-13.8	0.0	40.3	
XF-1502 Splitter Area 1	CNEL	104.5		256.8	-59.2	2.3	-3.3	-1.6	-0.14	-4.0	0.0	0.0	6.7	45.3	
XF-1502 Splitter Area 2	CNEL	104.5		253.3	-59.1	2.3	-13.9	-1.0	0.00	-3.0	0.0	0.0	6.7	36.5	
XF-1504 Splitter Area 1	CNEL	104.5		255.3	-59.1	2.3	-0.2	-1.8	-0.07	-4.5	0.0	0.0	6.7	47.8	
XF-1504 Splitter Area 2	CNEL	104.5		251.8	-59.0	2.3	-1.9	-1.6	-0.07	-4.1	0.0	0.0	6.7	46.7	
XF 251, 250, 271, 270	CNEL	101.1	128	125.7	-53.0	2.1	0.0	-0.5		-3.0	0.0	0.0	6.7	53.3	
XF 260, 261A, 261 B	CNEL	99.9	97	105.2	-51.4	1.9	0.0	-0.5		-3.0	0.0	0.0	6.7	53.5	
XF 304, XF 321	CNEL	110.5	56	311.2	-60.9	2.2	-2.4	-1.1	-0.11	-2.8	0.2	0.0	6.7	52.2	
XF 313, XF 314	CNEL	113.0	18	338.0	-61.6	2.6	-4.9	-1.0	-0.09	-3.2	0.0	0.0	6.7	51.4	
XF 335-1, XF 335-2	CNEL	113.4	54	321.7	-61.1	2.3	-3.0	-1.5	-0.12	-3.1	0.1	0.0	6.7	53.6	
XF 353A/B	CNEL	95.4	35	164.4	-55.3	2.2	-3.8	-0.6	-0.02	-2.7	0.8	0.0	6.7	42.7	
XF 353A/B	CNEL	95.4	35	164.7	-55.3	2.2	0.0	-0.7	0.00	-3.0	0.0	0.0	6.7	45.4	
XF 354A/B	CNEL	95.4	35	128.3	-53.2	1.9	-2.3	-0.5	0.00	-2.8	0.6	0.0	6.7	45.8	
XF 503	CNEL	113.0	21	258.2	-59.2	2.2	-1.1	-2.5	-0.82	-3.7	0.0	0.0	6.7	54.5	
XF - 1601	CNEL	96.6		241.2	-58.6	2.3	0.0	-0.8		-2.5	0.0	0.0	6.7	43.7	
XF - 1602	CNEL	96.6		239.6	-58.6	2.3	0.0	-0.8		-2.5	0.0	0.0	6.7	43.8	
XF Module 1510	CNEL	108.3		251.9	-59.0	2.3	-4.4	-1.6	-0.10	-4.0	0.0	0.0	6.7	48.1	
XF Module 1519	CNEL	109.0		256.9	-59.2	2.3	-4.3	-1.6	-0.22	-4.0	0.0	0.0	6.7	48.7	
xxxx xxxx xxxx xxxx	CNEL		606								0.3			32.0	
xxxx xxxx xxxx xxxx	CNEL		606								0.4			32.0	
xxxx xxxx xxxx xxxx	CNEL		917								1.1			49.4	
xxxx xxxx xxxx xxxx	CNEL		917								1.0			48.6	
xxxx xxxx xxxx xxxx	CNEL		608								2.2			33.3	
xxxx xxxx xxxx xxxx	CNEL		608								2.2			33.3	
xxxx xxxx xxxx xxxx	CNEL		228								3.3			26.7	
xxxx xxxx xxxx xxxx	CNEL		520								3.3			29.9	
xxxx xxxx xxxx xxxx	CNEL		1341								1.7			47.5	
xxxx xxxx xxxx xxxx	CNEL		450								5.6			39.3	
Receiver MH-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.3 dB(A) Ld 7-19 dB(A) Leq,N 66.3 dB(A) Le 19-22 dB(A) CNEL 72.9 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	206.2	-57.3	3.8	-17.0	-1.0		0.0	0.3	0.0	6.7	39.9	
18-1855 A/B	CNEL	98.8		267.8	-59.5	4.7	-23.6	-1.1		0.0	0.0	0.0	6.7	25.9	
18-1856 A/B	CNEL	98.8		272.0	-59.7	4.7	-23.4	-1.1		0.0	0.0	0.0	6.7	26.0	
18-1857 A/B	CNEL	98.8		263.9	-59.4	4.7	-20.8	-1.0		0.0	0.0	0.0	6.7	29.0	
18-1858 A/B	CNEL	98.8		261.3	-59.3	4.5	-20.6	-0.9		0.0	0.0	0.0	6.7	29.1	
18-PK 1802 Air Compressor Package	CNEL	103.1		286.3	-60.1	4.9	-19.5	-0.5		0.0	0.0	0.0	6.7	34.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	258.8	-59.3	4.4	-8.3	-1.9	-0.40	0.0	0.0	-4.8	1.0	39.9	
Air Compressor C 1	CNEL	110.0	5	98.9	-50.9	2.9	-15.2	-0.3		0.0	1.6	0.0	6.7	54.8	
Air Compressor Pump	CNEL	100.3		242.3	-58.7	4.5	-23.4	-2.3		0.0	0.0	0.0	6.7	27.1	
Blower F 401	CNEL	113.0		201.0	-57.1	3.8	-4.3	-0.3	-1.02	0.0	0.0	0.0	6.7	60.8	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	416.1	-63.4	4.9	-20.7	-1.0	-0.94	0.0	0.2	0.0	6.7	24.4	
Boiler Feed Water Pump A	CNEL	97.1	3	252.7	-59.0	4.5	-21.1	-1.0		0.0	0.0	0.0	6.7	27.1	
Boiler Feed Water Pump B	CNEL	97.1	3	255.4	-59.1	4.5	-20.2	-1.0		0.0	0.0	0.0	6.7	28.0	
C370 A Motor	CNEL	103.6	3	201.2	-57.1	3.2	-20.6	-0.7		0.0	1.1	0.0	6.7	36.1	
C370 B Motor	CNEL	108.6	3	206.0	-57.3	3.2	-20.6	-0.7		0.0	1.0	0.0	6.7	40.9	
C370A	CNEL	103.8	5	197.3	-56.9	3.2	-20.8	-0.7		0.0	0.9	0.0	6.7	36.1	
C370B	CNEL	103.8	5	202.2	-57.1	3.3	-20.8	-0.7		0.0	0.7	0.0	6.7	35.8	
C-270 A	CNEL	106.3	6	350.2	-61.9	4.4	-19.2	-1.2	-0.25	0.0	0.2	0.0	6.7	35.1	
C-270 B	CNEL	106.3	6	347.5	-61.8	4.4	-20.2	-1.3	-0.08	0.0	0.7	0.0	6.7	34.8	
C-270 C	CNEL	106.3	6	344.9	-61.7	4.4	-20.0	-1.2	-0.12	0.0	0.1	0.0	6.7	34.4	
C-301 Compressor	CNEL	106.8	3	340.0	-61.6	4.4	-15.0	-1.1	-0.15	0.0	0.0	0.0	6.7	40.1	
C-301 Motor	CNEL	106.8	4	337.6	-61.6	4.4	-16.3	-1.6	-0.17	0.0	0.0	0.0	6.7	38.2	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C-351 Compressor	CNEL	106.8	4	356.1	-62.0	4.5	-18.2	-1.1	-0.59	0.0	0.0	0.0	6.7	36.0
C-351 Motor	CNEL	106.8	5	359.9	-62.1	4.2	-20.0	-1.8	-0.83	0.0	0.0	0.0	6.7	33.0
Cars Pumping 6 times in during delivery	CNEL	134.7	361	249.0	-58.9	4.5	-6.4	-0.5	-0.64	0.0	0.0	-35.6	0.0	37.2
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	170.0	-55.6	3.2	-14.3	-0.4	-0.08	4.0	0.0	0.0	6.7	48.3
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	163.7	-55.3	3.2	-7.5	-0.6	-0.23	0.0	0.1	0.0	6.7	46.8
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	166.4	-55.4	3.2	-7.0	-0.4	-0.32	1.0	0.1	0.0	6.7	54.3
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	176.6	-55.9	3.3	-18.7	-0.4	-0.18	-7.8	0.0	0.0	6.7	37.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	167.0	-55.4	3.2	-17.4	-0.4	-0.16	-7.8	0.0	0.0	6.7	32.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	176.5	-55.9	3.3	-15.3	-0.5	-0.67	-6.8	0.0	0.0	6.7	31.2
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	152.5	-54.7	3.2	-7.4	-0.6	-0.64	-0.5	0.0	0.0	6.7	43.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	152.7	-54.7	3.1	-9.2	-0.7	-0.90	-0.7	0.0	0.0	6.7	41.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	156.3	-54.9	2.9	-21.1	-0.7		-3.3	0.0	0.0	6.7	30.2
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	154.0	-54.7	3.1	-0.9	-1.3		2.2	0.0	0.0	6.7	55.8
Cooling Tower M 512	CNEL	95.7		159.0	-55.0	3.7	-20.7	-0.6	-0.89	0.0	0.0	0.0	6.7	28.9
Cooling Tower M 513	CNEL	95.7		159.2	-55.0	3.7	-20.7	-0.6	-0.88	0.0	0.0	0.0	6.7	28.8
Cooling Tower M 514	CNEL	95.7		159.1	-55.0	3.7	-21.1	-0.7		0.0	0.0	0.0	6.7	29.3
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	226.8	-58.1	2.8	-18.2	-0.4		-1.6	0.2	0.0	6.7	27.1
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	191.9	-56.7	3.4	-13.8	-0.1		0.0	0.0	0.0	6.7	35.0
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	189.6	-56.5	3.5	-9.4	-0.1		0.0	0.0	0.0	6.7	37.2
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	191.0	-56.6	2.8	-8.8	0.0		0.0	0.0	0.0	6.7	37.5
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	192.4	-56.7	3.4	-10.4	-0.1		0.0	0.0	0.0	6.7	36.1
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	190.0	-56.6	3.4	-6.1	-0.1		0.0	0.0	0.0	6.7	42.7
FD Motor	CNEL	103.3	2	192.8	-56.7	3.7	-24.0	-1.8		0.0	0.8	0.0	6.7	32.0
Feed Compressor -B Motor	CNEL	103.8	5	231.2	-58.3	3.5	-22.8	-1.8		0.0	0.0	0.0	6.7	31.2
Feed Compressor-A Compressor	CNEL	104.0	5	218.9	-57.8	3.6	-21.6	-0.9		0.0	0.0	0.0	6.7	34.0
Feed Compressor-A Motor	CNEL	103.8	6	223.6	-58.0	3.4	-22.3	-1.5		0.0	0.0	0.0	6.7	32.1
Feed Compressor-B Compressor	CNEL	104.0	7	226.2	-58.1	3.7	-21.3	-1.0		0.0	0.0	0.0	6.7	34.0
H2S Compressor 18-C-271	CNEL	105.3	6	130.2	-53.3	2.9	-12.4	-0.5	-0.21	0.0	2.9	0.0	6.7	51.4
Heater # 5-Heater	CNEL	91.1	13	412.0	-63.3	4.9	-21.9	-1.1	-0.97	0.0	0.2	0.0	6.7	18.6
Heater # 5-Heater	CNEL	91.1	13	409.2	-63.2	4.9	-21.9	-1.1	-0.83	0.0	0.0	0.0	6.7	18.6
Heater # 5-Heater	CNEL	91.1	13	414.8	-63.3	4.9	-21.9	-1.1	-1.16	0.0	1.6	0.0	6.7	19.7
Hydro Heater H-402	CNEL	98.1		161.6	-55.2	3.7	-7.7	-0.3		0.0	0.0	0.0	6.7	45.3
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	208.2	-57.4	3.9	-13.7	0.0		0.0	0.0	0.0	6.7	26.4
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	209.8	-57.4	3.9	-14.6	0.0		0.0	0.0	0.0	6.7	25.8
ID Fan-ID Fan - North	CNEL	92.2	8	206.9	-57.3	3.9	-9.6	0.0		0.0	0.0	0.0	6.7	35.8
ID Fan-ID Fan - North 2	CNEL	91.4	7	209.4	-57.4	3.9	-9.4	0.0		0.0	0.0	0.0	6.7	35.1
ID Fan-ID Fan - South	CNEL	92.3	9	209.0	-57.4	3.9	-14.9	0.0		0.0	0.0	0.0	6.7	30.5
ID Fan-ID Fan - South 2	CNEL	91.4	7	210.4	-57.5	3.9	-14.2	0.0		0.0	0.0	0.0	6.7	30.2
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	208.5	-57.4	3.2	-8.9	0.0		0.0	0.0	0.0	6.7	37.5
Motor & Pump P 56A/B	CNEL	93.7		147.8	-54.4	3.6	-5.6	-1.1	-0.52	0.0	0.0	0.0	6.7	42.4
Motor & Pump P 120/121	CNEL	96.2	2	110.0	-51.8	3.0	0.0	-0.6		0.0	1.9	0.0	6.7	55.3
Motor & Pump P 211/212	CNEL	93.7		177.4	-56.0	4.1	-5.5	-1.1	-1.23	0.0	0.3	0.0	6.7	40.9
Motor & Pump P 215/214	CNEL	94.6		172.7	-55.7	4.1	-11.8	-0.9	-0.31	0.0	0.7	0.0	6.7	37.4
Motor & Pump P 216	CNEL	98.3		179.3	-56.1	4.0	-8.3	-1.0	-1.01	0.0	0.0	0.0	6.7	42.6
Motor & Pump P 217/218	CNEL	93.7		175.7	-55.9	4.4	-10.8	-0.9	-0.35	0.0	0.5	0.0	6.7	37.3
Motor & Pump P 300	CNEL	97.1	2	114.0	-52.1	3.2	-5.0	-0.5		0.0	0.9	0.0	6.7	50.2
Motor & Pump P 301	CNEL	102.1	2	115.4	-52.2	3.2	-8.0	-0.4		0.0	1.2	0.0	6.7	52.4
Motor & Pump P 302	CNEL	97.1	2	112.5	-52.0	3.1	-6.2	-0.4		0.0	2.5	0.0	6.7	50.8
Motor & Pump P 303	CNEL	97.1	2	111.3	-51.9	3.0	-12.1	-0.4		0.0	8.8	0.0	6.7	51.2
Motor & Pump P 305	CNEL	97.5	2	110.0	-51.8	3.0	-13.7	-0.4		0.0	11.6	0.0	6.7	52.8
Motor & Pump P 306	CNEL	112.6	4	102.5	-51.2	2.8	-15.2	-0.4		0.0	5.0	0.0	6.7	60.3
Motor & Pump P 307	CNEL	102.1	2	119.6	-52.5	3.3	-7.8	-0.4		0.0	0.5	0.0	6.7	51.9
Motor & Pump P 309	CNEL	97.5	2	108.8	-51.7	2.9	-16.2	-0.4		0.0	13.8	0.0	6.7	52.6
Motor & Pump P 312	CNEL	101.5	2	139.0	-53.9	3.9	-14.9	-0.4		0.0	3.1	0.0	6.7	45.9
Motor & Pump P 313	CNEL	101.5	2	140.7	-54.0	3.9	-14.7	-0.4		0.0	1.9	0.0	6.7	44.9
Motor & Pump P 315	CNEL	102.9	2	146.6	-54.3	3.8	-13.2	-0.4		0.0	1.4	0.0	6.7	46.9
Motor & Pump P 316	CNEL	102.9	2	148.5	-54.4	3.8	-12.6	-0.5		0.0	1.0	0.0	6.7	46.9
Motor & Pump P 317	CNEL	102.9	2	150.2	-54.5	3.8	-12.3	-0.5	0.00	0.0	0.6	0.0	6.7	46.6
Motor & Pump P 318	CNEL	100.2	1	144.6	-54.2	4.1	-13.8	-0.4		0.0	1.6	0.0	6.7	44.1
Motor & Pump P 319	CNEL	100.2	1	143.3	-54.1	4.1	-14.2	-0.4		0.0	1.7	0.0	6.7	43.9
Motor & Pump P 327	CNEL	111.2	3	96.6	-50.7	2.9	-17.3	-0.6		0.0	3.5	0.0	6.7	55.7
Motor & Pump P 328	CNEL	109.9	5	107.2	-51.6	2.9	-15.4	-0.4		0.0	11.7	0.0	6.7	63.8
Motor & Pump P 329	CNEL	110.2	5	104.8	-51.4	2.9	-13.8	-0.4		0.0	8.1	0.0	6.7	62.3
Motor & Pump P 451	CNEL	93.7		168.3	-55.5	3.9	-14.9	-0.7		0.0	0.0	0.0	6.7	33.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 453	CNEL	93.7		179.4	-56.1	4.0	-11.3	-0.9		0.0	0.0	0.0	6.7	36.1
Motor & Pump P 454	CNEL	93.7		168.1	-55.5	3.9	-8.1	-1.0		0.0	0.0	0.0	6.7	39.6
Motor & Pump P 457	CNEL	93.7		180.9	-56.1	4.0	-8.1	-1.1		0.0	0.0	0.0	6.7	39.0
Motor & Pump P 458	CNEL	93.7		168.1	-55.5	3.9	-15.7	-0.8		0.0	0.0	0.0	6.7	32.2
Motor & Pump P 459	CNEL	93.7		167.1	-55.5	3.9	-8.3	-1.0		0.0	0.0	0.0	6.7	39.5
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		137.8	-53.8	3.6	-4.0	-0.9	-0.01	0.0	0.0	0.0	6.7	47.7
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		136.1	-53.7	3.5	-4.0	-0.9		0.0	0.0	0.0	6.7	47.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		102.1	-51.2	2.9	0.0	-1.1	-0.07	0.0	0.0	0.0	6.7	52.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		101.0	-51.1	2.9	0.0	-1.0	-0.05	0.0	0.0	0.0	6.7	52.8
Motor & Pump P 1601 A	CNEL	96.3	2	137.5	-53.8	3.1	-1.3	-1.7		0.0	2.1	0.0	6.7	51.4
Motor & Pump P 1601 B	CNEL	96.3	2	137.6	-53.8	3.1	-8.5	-0.8		0.0	5.5	0.0	6.7	48.6
Motor & Pump P 1602 A	CNEL	96.3	2	138.0	-53.8	3.1	-5.2	-1.1		0.0	3.7	0.0	6.7	49.6
Motor & Pump P 1602 B	CNEL	96.5	2	138.2	-53.8	3.1	-1.4	-1.7		0.0	0.0	0.0	6.7	49.4
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	136.7	-53.7	3.6	-3.3	-1.2	-0.80	0.0	0.3	0.0	6.7	48.2
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	131.8	-53.4	3.5	-2.6	-1.2	-0.69	0.0	0.3	0.0	6.7	49.2
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	129.3	-53.2	3.5	-2.5	-1.2	-0.64	0.0	0.3	0.0	6.7	49.5
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	134.6	-53.6	3.5	-4.6	-0.9	-0.08	0.0	0.0	0.0	6.7	47.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	132.8	-53.5	3.5	-4.9	-0.9	-0.06	0.0	0.0	0.0	6.7	47.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	124.2	-52.9	3.4	-0.4	-1.3	-0.51	0.0	0.0	0.0	6.7	51.3
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	124.1	-52.9	3.4	-5.5	-0.8	-0.55	0.0	0.0	0.0	6.7	46.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	124.3	-52.9	3.4	-7.5	-0.8	-0.56	0.0	0.9	0.0	6.7	45.4
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	124.2	-52.9	3.4	-7.7	-0.7	-0.56	0.0	2.3	0.0	6.7	46.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	88.2	-49.9	2.9	0.0	-0.7		0.0	0.1	0.0	6.7	63.2
P-2 A/B	CNEL	98.5		445.2	-64.0	5.3	-21.2	-1.4	-0.43	0.0	0.0	0.0	6.7	23.5
P-50 A/B	CNEL	98.1		402.9	-63.1	5.3	-24.5	-1.7	-0.77	0.0	0.0	0.0	6.7	20.0
P-51 A/B	CNEL	98.1		405.9	-63.2	5.3	-24.1	-1.7	-0.20	0.0	0.0	0.0	6.7	20.9
P-060 A/B	CNEL	98.1		395.3	-62.9	5.3	-23.4	-1.4	-0.43	0.0	0.1	0.0	6.7	22.0
P-63	CNEL	98.5		430.3	-63.7	5.3	-20.3	-1.4	-1.31	0.0	0.8	0.0	6.7	24.6
P-70 A/B	CNEL	98.1		398.7	-63.0	5.3	-24.4	-1.7	-0.62	0.0	0.0	0.0	6.7	20.2
P-73 A/B	CNEL	98.5		442.0	-63.9	5.3	-24.2	-1.9		0.0	0.1	0.0	6.7	20.6
P-251 A/B	CNEL	98.2		303.9	-60.6	5.1	-18.4	-0.9	-0.51	0.0	0.0	0.0	6.7	29.5
P-252 A/B	CNEL	98.2		296.1	-60.4	5.1	-20.7	-1.0	-0.23	0.0	0.0	0.0	6.7	27.6
P-253	CNEL	98.2		300.0	-60.5	5.1	-20.8	-1.0	-0.23	0.0	0.0	0.0	6.7	27.4
P-254 A/B	CNEL	98.2		309.3	-60.8	5.1	-20.6	-1.0	-0.51	0.0	0.0	0.0	6.7	27.1
P-255 A/B	CNEL	98.2		307.6	-60.8	5.1	-20.5	-1.0	-0.51	0.0	0.0	0.0	6.7	27.3
P-255 A/B	CNEL	98.2		300.4	-60.5	5.1	-19.3	-0.9	-0.50	0.0	0.0	0.0	6.7	28.7
P-256 A/B	CNEL	98.2		305.4	-60.7	5.1	-19.4	-0.9	-0.51	0.0	0.0	0.0	6.7	28.4
P-259 A/B	CNEL	98.2		302.1	-60.6	5.1	-18.1	-0.9	-0.50	0.0	0.0	0.0	6.7	29.8
P-260	CNEL	99.1		286.7	-60.1	5.1	-20.8	-0.9	-0.23	0.0	0.0	0.0	6.7	28.7
P-261 A/B	CNEL	98.0		277.1	-59.8	5.0	-21.7	-0.9	-0.22	0.0	0.0	0.0	6.7	27.0
P-262 A/B	CNEL	99.1		283.0	-60.0	5.1	-20.4	-0.9	-0.22	0.0	0.0	0.0	6.7	29.2
P-263 A/B	CNEL	99.4		284.6	-60.1	5.1	-19.8	-0.9	-0.22	0.0	0.0	0.0	6.7	30.1
P-270 A/B	CNEL	98.5		331.3	-61.4	5.2	-21.2	-1.1	-0.17	0.0	0.0	0.0	6.7	26.5
P-271 A/B	CNEL	98.2		314.4	-60.9	5.1	-20.5	-1.0	-0.52	0.0	0.0	0.0	6.7	27.0
P-272 A/B	CNEL	98.2		311.9	-60.9	5.1	-20.6	-1.0	-0.51	0.0	0.0	0.0	6.7	27.0
P-273 A/B	CNEL	98.5		329.2	-61.3	5.2	-21.9	-1.1	-0.03	0.0	0.0	0.0	6.7	26.0
P-275 A/B/C	CNEL	98.2		305.8	-60.7	5.1	-23.2	-1.2	-0.23	0.0	0.0	0.0	6.7	24.6
P-305	CNEL	99.3		386.9	-62.7	5.3	-24.1	-1.6	-0.18	0.0	0.0	0.0	6.7	22.6
P-306	CNEL	100.8		392.5	-62.9	5.3	-21.2	-1.4	-0.86	0.0	0.0	0.0	6.7	26.4
P-309	CNEL	99.3		388.1	-62.8	5.3	-24.1	-1.6	-0.29	0.0	0.0	0.0	6.7	22.5
P-328	CNEL	100.8		395.9	-62.9	5.3	-23.5	-1.5	-1.27	0.0	0.0	0.0	6.7	23.5
P-329	CNEL	100.8		394.1	-62.9	5.3	-20.9	-1.4	-1.09	0.0	0.0	0.0	6.7	26.5
P-353	CNEL	98.5		376.4	-62.5	5.0	-21.3	-1.3	-0.63	0.0	0.0	0.0	6.7	24.4
P-358 A/B	CNEL	99.4		368.9	-62.3	5.2	-20.9	-1.2	-0.85	0.0	0.0	0.0	6.7	26.0
P-359 A/B	CNEL	99.4		372.6	-62.4	5.2	-19.9	-1.2	-0.98	0.0	0.0	0.0	6.7	26.8
P-360 A/B	CNEL	99.4		380.0	-62.6	5.3	-22.2	-1.3	-1.23	0.0	0.0	0.0	6.7	24.0
P-361A	CNEL	98.1		380.3	-62.6	5.0	-21.5	-1.3	-0.28	0.0	1.3	0.0	6.7	25.4
P-371 A/B	CNEL	98.0		182.3	-56.2	4.1	-20.6	-0.6		0.0	0.1	0.0	6.7	31.5
P-373 A/B	CNEL	98.0		186.0	-56.4	4.2	-15.2	-0.6		0.0	0.0	0.0	6.7	36.7
P-374 A/B	CNEL	98.0		184.9	-56.3	4.1	-14.1	-0.6		0.0	0.0	0.0	6.7	37.8
P-375 A/B	CNEL	98.0		182.5	-56.2	4.1	-10.3	-0.6		0.0	0.0	0.0	6.7	41.6
P-376	CNEL	98.0		184.3	-56.3	4.1	-13.2	-0.6		0.0	0.0	0.0	6.7	38.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-376 A/B	CNEL	98.0		187.1	-56.4	4.2	-16.5	-0.6		0.0	0.0	0.0	6.7	35.3
P-377	CNEL	98.0		183.6	-56.3	4.1	-12.3	-0.6		0.0	0.0	0.0	6.7	39.6
P-1101 A	CNEL	98.9		425.1	-63.6	5.1	-22.4	-1.6		0.0	0.1	0.0	6.7	23.2
P-1103	CNEL	98.9		424.0	-63.5	5.1	-22.4	-1.6		0.0	0.1	0.0	6.7	23.3
P-1105 A/B/C	CNEL	98.9		429.0	-63.6	5.1	-21.5	-1.5		0.0	0.0	0.0	6.7	24.1
P-1800	CNEL	98.9		477.2	-64.6	5.4	-22.6	-1.6		0.0	1.0	0.0	6.7	23.2
P-1801	CNEL	98.9		511.0	-65.2	5.4	-25.0	-2.2		0.0	2.3	0.0	6.7	20.9
P-1802	CNEL	98.9		509.3	-65.1	5.4	-25.0	-2.2		0.0	0.0	0.0	6.7	18.6
P-1803	CNEL	99.1		380.8	-62.6	5.2	-24.7	-1.7		0.0	0.0	0.0	6.7	22.0
P-1804	CNEL	99.1		400.9	-63.1	5.3	-24.0	-1.6		0.0	1.2	0.0	6.7	23.6
P-1805	CNEL	99.1		403.3	-63.1	5.3	-23.9	-1.6		0.0	0.0	0.0	6.7	22.5
P-1806	CNEL	99.1		362.8	-62.2	5.2	-22.3	-1.3		0.0	0.1	0.0	6.7	25.3
P-1809 A	CNEL	98.9		482.4	-64.7	5.4	-23.4	-1.7		0.0	3.2	0.0	6.7	24.3
P-1810 A/B/C	CNEL	99.0		397.5	-63.0	5.2	-24.8	-1.8		0.0	0.0	0.0	6.7	21.3
P-1811 A/B	CNEL	99.1		367.9	-62.3	5.2	-20.0	-1.1		0.0	0.0	0.0	6.7	27.5
P-1811 A/B	CNEL	99.1		406.2	-63.2	5.3	-23.6	-1.5		0.0	0.0	0.0	6.7	22.7
P-1847 A/B	CNEL	99.4		333.0	-61.4	5.1	-20.6	-1.1		0.0	0.0	0.0	6.7	28.1
P-1849 A/B	CNEL	99.4		338.6	-61.6	5.1	-21.5	-1.1		0.0	0.0	0.0	6.7	27.0
P-1853	CNEL	99.1		350.5	-61.9	5.2	-18.6	-1.0	-0.86	0.0	0.0	0.0	6.7	28.6
Piping Furnace Tanks	CNEL	87.1	72	183.4	-56.3	2.9	-23.0	-4.4		0.0	3.3	0.0	6.7	16.2
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	188.4	-56.5	2.9	-23.3	-4.5		0.0	1.8	0.0	6.7	25.5
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	151.4	-54.6	2.9	-24.8	-1.5		0.0	0.9	0.0	6.7	44.2
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	153.9	-54.7	2.9	-24.9	-5.0		0.0	1.0	0.0	6.7	41.1
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	422.1	-63.5	3.8	-23.5	-1.7		0.0	0.1	0.0	6.7	32.5
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	391.4	-62.8	3.7	-14.3	-1.2		0.0	0.0	0.0	6.7	43.1
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	371.9	-62.4	3.6	-18.3	-1.1		0.0	0.0	0.0	6.7	32.6
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	412.1	-63.3	3.8	-22.6	-1.6		0.0	0.8	0.0	6.7	34.9
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	381.0	-62.6	3.7	-21.6	-1.4		0.0	0.1	0.0	6.7	28.9
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	373.6	-62.4	3.6	-18.9	-1.2		0.0	0.8	0.0	6.7	32.4
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	372.6	-62.4	3.6	-17.7	-1.1		0.0	0.0	0.0	6.7	35.8
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	388.9	-62.8	3.7	-21.1	-1.4		0.0	0.9	0.0	6.7	32.2
Pre-Treat Train-Roof 01	CNEL	113.1	2037	399.5	-63.0	2.8	-15.2	-1.2		0.0	0.0	0.0	6.7	43.1
PSA Pipe 3" Lagging	CNEL	80.6	11	160.8	-55.1	2.8	-21.0	-1.2		0.0	3.2	0.0	6.7	16.0
PSA Skid Additional Piping w NC	CNEL	116.6	57	150.0	-54.5	2.9	-24.8	-1.5		0.0	0.9	0.0	6.7	46.3
Reformer-Burner Reformer East	CNEL	97.3	269	179.5	-56.1	2.8	-13.1	-0.8		0.0	0.0	0.0	6.7	39.9
Reformer-Burner Reformer North	CNEL	95.9	192	178.1	-56.0	2.8	-16.5	-0.7		0.0	1.5	0.0	6.7	33.6
Reformer-Burner Reformer South	CNEL	95.8	191	190.9	-56.6	2.8	-20.1	-1.0		0.0	1.2	0.0	6.7	31.8
Reformer-Burner Reformer West	CNEL	97.3	268	189.4	-56.5	2.8	-22.8	-1.2		0.0	1.3	0.0	6.7	30.6
RFG A from battery to process	CNEL	99.4	87	190.8	-56.6	2.9	-22.7	-4.3		0.0	1.2	0.0	6.7	26.6
RFG A from battery to process w NC	CNEL	115.2	42	151.5	-54.6	2.9	-24.9	-5.0		0.0	0.8	0.0	6.7	41.0
Stack Noise	CNEL	108.4		214.0	-57.6	2.7	-4.7	-0.6		-5.6	0.0	0.0	6.7	49.2
Steam Turbine-Facade 01	CNEL	99.6	29	165.0	-55.3	3.5	-24.1	-3.2		0.0	0.0	0.0	6.7	27.1
Steam Turbine-Facade 02	CNEL	96.2	13	164.9	-55.3	3.5	-24.4	-3.4		0.0	0.0	0.0	6.7	23.3
Steam Turbine-Facade 03	CNEL	99.6	29	161.6	-55.2	3.5	-24.2	-3.2		0.0	0.0	0.0	6.7	27.2
Steam Turbine-Facade 04	CNEL	96.2	13	161.8	-55.2	3.5	-23.9	-3.1		0.0	0.1	0.0	6.7	24.4
Steam Turbine-Roof 01	CNEL	99.7	30	163.3	-55.3	2.9	-23.9	-3.0		0.0	0.0	0.0	6.7	27.2
Tank Farm Pump 1	CNEL	99.0	3	310.9	-60.8	4.8	-22.8	-1.7		0.0	3.1	0.0	6.7	28.2
Tank Farm Pump 2	CNEL	99.0	3	329.3	-61.3	4.8	-22.0	-1.6		0.0	0.0	0.0	6.7	25.6
Tank Farm Pump 3	CNEL	99.0	3	334.6	-61.5	4.8	-21.7	-1.6		0.0	0.5	0.0	6.7	26.2
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	271.2	-59.7	3.6	-5.5	-2.5	-0.25	0.0	0.4	-13.8	0.0	34.6
XF-1502 Splitter Area 1	CNEL	104.5		127.8	-53.1	2.9	-0.1	-1.0	-0.59	-4.5	0.0	0.0	6.7	54.7
XF-1502 Splitter Area 2	CNEL	104.5		131.6	-53.4	2.9	-0.1	-1.0	-0.67	-4.5	0.0	0.0	6.7	54.3
XF-1504 Splitter Area 1	CNEL	104.5		127.9	-53.1	2.9	-3.6	-0.8	-0.01	-3.9	0.0	0.0	6.7	52.5
XF-1504 Splitter Area 2	CNEL	104.5		131.6	-53.4	2.9	-3.4	-0.8	0.00	-4.0	0.0	0.0	6.7	52.4
XF 251, 250, 271, 270	CNEL	101.1	128	310.0	-60.8	2.8	-13.9	-0.5		-1.5	0.0	0.0	6.7	33.8
XF 260, 261A, 261 B	CNEL	99.9	97	286.2	-60.1	2.8	-11.7	-0.4	0.00	-1.4	0.0	0.0	6.7	35.7
XF 304, XF 321	CNEL	110.5	56	119.6	-52.6	2.8	-6.9	-0.3	-0.12	-2.4	0.0	0.0	6.7	57.8
XF 313, XF 314	CNEL	113.0	18	96.0	-50.6	2.7	-10.0	-0.3		-3.1	0.3	0.0	6.7	58.7
XF 335-1, XF 335-2	CNEL	113.4	54	109.6	-51.8	2.8	-8.5	-0.3	-0.10	-2.4	0.4	0.0	6.7	60.1
XF 353A/B	CNEL	95.4	35	379.7	-62.6	3.3	-11.8	-0.6	-0.01	-1.5	0.0	0.0	6.7	28.9
XF 353A/B	CNEL	95.4	35	355.4	-62.0	3.1	-12.9	-0.5		-1.5	0.0	0.0	6.7	28.3
XF 354A/B	CNEL	95.4	35	381.0	-62.6	3.3	-11.5	-0.6	0.00	-1.5	0.0	0.0	6.7	29.2
XF 503	CNEL	113.0	21	157.7	-54.9	2.8	-0.9	-2.2	-0.71	-3.9	0.0	0.0	6.7	60.0
XF - 1601	CNEL	96.6		139.4	-53.9	2.8	-4.4	-0.3		-1.6	0.0	0.0	6.7	45.8
XF - 1602	CNEL	96.6		140.3	-53.9	2.8	0.0	-0.5		-2.6	0.0	0.0	6.7	49.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF Module 1510	CNEL	108.3		135.5	-53.6	2.9	-0.1	-1.1	-0.75	-4.5	0.0	0.0	6.7	57.8	
XF Module 1519	CNEL	109.0		130.2	-53.3	2.9	-0.1	-1.0	-0.64	-4.5	0.0	0.0	6.7	59.0	
xxxx xxxx xxxx xxxx	CNEL		606								6.9			31.7	
xxxx xxxx xxxx xxxx	CNEL		606								7.2			32.1	
xxxx xxxx xxxx xxxx	CNEL		917								4.2			20.7	
xxxx xxxx xxxx xxxx	CNEL		917								4.0			21.4	
xxxx xxxx xxxx xxxx	CNEL		608								3.7			41.0	
xxxx xxxx xxxx xxxx	CNEL		608								3.5			40.7	
xxxx xxxx xxxx xxxx	CNEL		228								5.5			13.2	
xxxx xxxx xxxx xxxx	CNEL		520								3.7			40.4	
xxxx xxxx xxxx xxxx	CNEL		1341								16.7			40.1	
xxxx xxxx xxxx xxxx	CNEL		450								6.2			12.8	
Receiver MH-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 64.4 dB(A) Ld 7-19 dB(A) Leq,N 64.4 dB(A) Le 19-22 dB(A) CNEL 71.1 dB(A) Lmax day hr dB(A) Ld 7-1															
ID Fan Motor	CNEL	104.4	2	189.4	-56.5	3.7	-22.5	-1.2		0.0	1.1	0.0	6.7	35.6	
18-1855 A/B	CNEL	98.8		255.7	-59.1	4.7	-21.9	-1.0		0.0	0.0	0.0	6.7	28.1	
18-1856 A/B	CNEL	98.8		259.4	-59.3	4.7	-22.0	-1.0		0.0	0.0	0.0	6.7	28.0	
18-1857 A/B	CNEL	98.8		252.2	-59.0	4.7	-19.5	-0.8		0.0	0.0	0.0	6.7	30.8	
18-1858 A/B	CNEL	98.8		250.0	-58.9	4.4	-20.3	-0.8		0.0	0.1	0.0	6.7	29.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		273.9	-59.7	4.9	-18.3	-0.5		0.0	0.0	0.0	6.7	36.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	262.8	-59.4	4.5	-10.5	-2.0	-0.39	0.0	0.1	-4.8	1.0	37.6	
Air Compressor C 1	CNEL	110.0	5	112.8	-52.0	3.2	-14.9	-0.3		0.0	1.3	0.0	6.7	53.9	
Air Compressor Pump	CNEL	100.3		236.4	-58.5	4.4	-23.9	-2.5		0.0	0.0	0.0	6.7	26.5	
Blower F 401	CNEL	113.0		207.2	-57.3	3.8	-9.1	-0.3	-0.67	0.0	0.0	0.0	6.7	56.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	404.5	-63.1	4.9	-19.5	-0.9	-0.93	0.0	0.3	0.0	6.7	26.0	
Boiler Feed Water Pump A	CNEL	97.1	3	239.1	-58.6	4.4	-20.5	-1.0		0.0	0.0	0.0	6.7	28.1	
Boiler Feed Water Pump B	CNEL	97.1	3	242.0	-58.7	4.5	-20.3	-1.0		0.0	0.0	0.0	6.7	28.3	
C370 A Motor	CNEL	103.6	3	193.8	-56.7	3.1	-22.0	-0.9		0.0	1.2	0.0	6.7	34.9	
C370 B Motor	CNEL	108.6	3	197.6	-56.9	3.1	-22.0	-0.9		0.0	0.7	0.0	6.7	39.3	
C370A	CNEL	103.8	5	189.7	-56.6	3.1	-22.1	-0.9		0.0	1.0	0.0	6.7	35.0	
C370B	CNEL	103.8	5	193.5	-56.7	3.2	-22.2	-0.9		0.0	0.9	0.0	6.7	34.7	
C-270 A	CNEL	106.3	6	338.3	-61.6	4.4	-16.4	-1.0	-0.27	0.0	0.2	0.0	6.7	38.3	
C-270 B	CNEL	106.3	6	335.8	-61.5	4.4	-15.9	-1.0	-0.16	0.0	0.3	0.0	6.7	39.1	
C-270 C	CNEL	106.3	6	333.4	-61.5	4.4	-16.5	-1.0	-0.24	0.0	0.3	0.0	6.7	38.5	
C-301 Compressor	CNEL	106.8	3	326.5	-61.3	4.3	-17.0	-1.1	-0.14	0.0	0.0	0.0	6.7	38.3	
C-301 Motor	CNEL	106.8	4	324.2	-61.2	4.3	-17.7	-1.7	-0.17	0.0	0.0	0.0	6.7	37.1	
C-351 Compressor	CNEL	106.8	4	343.0	-61.7	4.4	-16.1	-1.1	-0.58	0.0	0.0	0.0	6.7	38.4	
C-351 Motor	CNEL	106.8	5	347.0	-61.8	4.2	-20.9	-1.9	-0.77	0.0	0.0	0.0	6.7	32.3	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	255.9	-59.2	4.6	-8.0	-0.5	-0.58	0.0	0.0	-35.6	0.0	35.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	181.1	-56.2	3.3	-12.0	-0.5	-0.52	3.4	0.0	0.0	6.7	49.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	174.6	-55.8	3.2	-2.6	-1.2	-0.56	0.0	0.0	0.0	6.7	50.2	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	178.6	-56.0	3.2	-5.1	-0.6	-0.37	1.5	0.2	0.0	6.7	56.0	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	188.4	-56.5	3.4	-17.9	-0.4	-0.36	-7.8	0.1	0.0	6.7	37.8	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	178.0	-56.0	3.3	-15.1	-0.4	-0.55	-7.8	0.0	0.0	6.7	33.9	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	189.6	-56.5	3.3	-17.4	-0.6	-0.47	-7.3	0.1	0.0	6.7	28.2	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	154.0	-54.7	3.2	-5.3	-0.9		3.2	0.0	0.0	6.7	50.0	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	156.1	-54.9	3.2	-8.2	-0.6	-0.93	-3.5	0.0	0.0	6.7	39.6	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	154.2	-54.8	2.9	-22.0	-0.7		-0.4	0.1	0.0	6.7	32.5	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	154.5	-54.8	3.1	-13.6	-0.4		-1.3	0.0	0.0	6.7	40.4	
Cooling Tower M 512	CNEL	95.7		161.4	-55.2	3.8	-19.7	-0.7		0.0	0.0	0.0	6.7	30.6	
Cooling Tower M 513	CNEL	95.7		161.8	-55.2	3.7	-20.1	-0.7		0.0	0.0	0.0	6.7	30.2	
Cooling Tower M 514	CNEL	95.7		161.3	-55.1	3.7	-18.1	-0.6	-0.18	0.0	0.1	0.0	6.7	32.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	212.5	-57.5	2.8	-18.0	-0.4		-1.6	0.0	0.0	6.7	27.7	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	175.4	-55.9	3.3	-16.0	0.0		0.0	0.0	0.0	6.7	33.4	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	172.9	-55.7	3.3	-14.2	0.0		0.0	0.0	0.0	6.7	33.1	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	174.5	-55.8	2.8	-13.0	0.0		0.0	0.0	0.0	6.7	34.1	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	176.0	-55.9	3.2	-14.5	0.0		0.0	0.0	0.0	6.7	32.7	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	173.6	-55.8	3.2	-9.3	-0.1		0.0	0.0	0.0	6.7	40.1	
FD Motor	CNEL	103.3	2	176.2	-55.9	3.5	-24.4	-1.8		0.0	0.3	0.0	6.7	31.7	
Feed Compressor -B Motor	CNEL	103.8	5	220.4	-57.9	3.4	-20.5	-1.4		0.0	0.0	0.0	6.7	34.1	
Feed Compressor-A Compressor	CNEL	104.0	5	209.1	-57.4	3.5	-21.7	-1.0		0.0	0.0	0.0	6.7	34.1	
Feed Compressor-A Motor	CNEL	103.8	6	213.9	-57.6	3.3	-22.3	-1.5		0.0	0.0	0.0	6.7	32.4	
Feed Compressor-B Compressor	CNEL	104.0	7	215.1	-57.6	3.5	-18.0	-0.7		0.0	0.0	0.0	6.7	37.9	
H2S Compressor 18-C-271	CNEL	105.3	6	141.1	-54.0	3.0	-1.5	-1.0	-0.37	0.0	0.0	0.0	6.7	58.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	400.4	-63.0	4.9	-21.1	-1.0	-0.95	0.0	0.5	0.0	6.7	20.0
Heater # 5-Heater	CNEL	91.1	13	397.8	-63.0	4.9	-20.0	-1.0	-0.73	0.0	0.0	0.0	6.7	20.9
Heater # 5-Heater	CNEL	91.1	13	402.9	-63.1	4.9	-21.3	-1.0	-1.25	0.0	2.0	0.0	6.7	21.0
Hydro Heater H-402	CNEL	98.1		167.8	-55.5	3.7	-10.5	-0.3		0.0	0.0	0.0	6.7	42.2
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	191.5	-56.6	3.7	-16.1	0.0		0.0	0.0	0.0	6.7	24.6
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	193.2	-56.7	3.8	-15.6	0.0		0.0	0.0	0.0	6.7	25.4
ID Fan-ID Fan - North	CNEL	92.2	8	190.2	-56.6	3.7	-11.7	0.0		0.0	0.0	0.0	6.7	34.3
ID Fan-ID Fan - North 2	CNEL	91.4	7	192.6	-56.7	3.7	-13.6	0.0		0.0	0.0	0.0	6.7	31.5
ID Fan-ID Fan - South	CNEL	92.3	9	192.5	-56.7	3.8	-16.1	0.0		0.0	0.0	0.0	6.7	30.0
ID Fan-ID Fan - South 2	CNEL	91.4	7	193.7	-56.7	3.8	-15.5	0.0		0.0	0.0	0.0	6.7	29.5
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	191.9	-56.7	3.0	-12.9	0.0		0.0	0.0	0.0	6.7	34.0
Motor & Pump P 56A/B	CNEL	93.7		155.7	-54.8	3.7	-13.4	-0.6	-0.35	0.0	0.1	0.0	6.7	34.8
Motor & Pump P 120/121	CNEL	96.2	2	122.7	-52.8	3.3	0.0	-0.7		0.0	0.3	0.0	6.7	53.1
Motor & Pump P 211/212	CNEL	93.7		186.5	-56.4	4.2	-5.2	-1.4	-1.08	0.0	1.4	0.0	6.7	41.8
Motor & Pump P 215/214	CNEL	94.6		182.1	-56.2	4.2	-11.3	-0.9	-0.98	0.0	3.2	0.0	6.7	39.3
Motor & Pump P 216	CNEL	98.3		189.1	-56.5	4.1	-9.0	-1.1	-1.07	0.0	0.1	0.0	6.7	41.5
Motor & Pump P 217/218	CNEL	93.7		184.9	-56.3	4.5	-5.8	-1.3	-1.04	0.0	1.1	0.0	6.7	41.5
Motor & Pump P 300	CNEL	97.1	2	128.4	-53.2	3.5	-8.9	-0.4		0.0	7.9	0.0	6.7	52.6
Motor & Pump P 301	CNEL	102.1	2	129.7	-53.2	3.5	-8.8	-0.4		0.0	7.9	0.0	6.7	57.7
Motor & Pump P 302	CNEL	97.1	2	127.0	-53.1	3.4	-6.5	-0.5		0.0	5.9	0.0	6.7	53.0
Motor & Pump P 303	CNEL	97.1	2	126.0	-53.0	3.3	-8.1	-0.5		0.0	7.1	0.0	6.7	52.6
Motor & Pump P 305	CNEL	97.5	2	124.9	-52.9	3.3	-10.6	-0.4		0.0	7.7	0.0	6.7	51.2
Motor & Pump P 306	CNEL	112.6	4	118.2	-52.4	2.8	-17.3	-0.5		0.0	1.7	0.0	6.7	53.6
Motor & Pump P 307	CNEL	102.1	2	133.4	-53.5	3.5	-6.8	-0.5		0.0	4.4	0.0	6.7	56.0
Motor & Pump P 309	CNEL	97.5	2	123.7	-52.8	3.3	-15.2	-0.4		0.0	6.4	0.0	6.7	45.4
Motor & Pump P 312	CNEL	101.5	2	151.2	-54.6	4.0	-14.3	-0.5	-0.10	0.0	0.0	0.0	6.7	42.8
Motor & Pump P 313	CNEL	101.5	2	152.7	-54.7	4.1	-13.5	-0.5	-0.13	0.0	0.0	0.0	6.7	43.4
Motor & Pump P 315	CNEL	102.9	2	158.2	-55.0	3.9	-9.6	-0.5	-0.25	0.0	0.0	0.0	6.7	48.2
Motor & Pump P 316	CNEL	102.9	2	159.9	-55.1	4.0	-7.8	-0.6	-0.29	0.0	0.0	0.0	6.7	49.8
Motor & Pump P 317	CNEL	102.9	2	161.6	-55.2	3.9	-5.8	-0.7	-0.32	0.0	0.0	0.0	6.7	51.5
Motor & Pump P 318	CNEL	100.2	1	156.3	-54.9	4.2	-10.8	-0.5	-0.23	0.0	0.0	0.0	6.7	44.7
Motor & Pump P 319	CNEL	100.2	1	155.0	-54.8	4.2	-11.8	-0.5	-0.20	0.0	0.0	0.0	6.7	43.8
Motor & Pump P 327	CNEL	111.2	3	113.2	-52.1	3.1	-17.1	-0.7		0.0	2.8	0.0	6.7	53.9
Motor & Pump P 328	CNEL	109.9	5	122.3	-52.7	2.9	-17.4	-0.4		0.0	7.3	0.0	6.7	56.2
Motor & Pump P 329	CNEL	110.2	5	120.2	-52.6	2.9	-18.6	-0.4		0.0	5.6	0.0	6.7	53.7
Motor & Pump P 451	CNEL	93.7		174.0	-55.8	3.9	-14.2	-0.9		0.0	0.0	0.0	6.7	33.4
Motor & Pump P 453	CNEL	93.7		184.5	-56.3	4.0	-0.4	-1.9	-0.47	0.0	0.0	0.0	6.7	45.3
Motor & Pump P 454	CNEL	93.7		174.1	-55.8	3.9	-16.2	-0.9		0.0	0.1	0.0	6.7	31.5
Motor & Pump P 457	CNEL	93.7		186.0	-56.4	4.0	-2.7	-1.5	-0.51	0.0	0.0	0.0	6.7	43.4
Motor & Pump P 458	CNEL	93.7		173.7	-55.8	3.9	-10.7	-1.0		0.0	0.0	0.0	6.7	36.8
Motor & Pump P 459	CNEL	93.7		173.1	-55.8	3.9	-17.2	-0.9		0.0	0.1	0.0	6.7	30.5
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		142.4	-54.1	3.6	-0.9	-1.7	-0.51	0.0	0.4	0.0	6.7	49.7
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		140.7	-54.0	3.6	-0.9	-1.6	-0.48	0.0	0.0	0.0	6.7	49.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		106.1	-51.5	2.9	-1.1	-1.4	-0.07	0.0	0.2	0.0	6.7	51.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		105.0	-51.4	2.9	-1.1	-1.3	-0.05	0.0	0.0	0.0	6.7	51.1
Motor & Pump P 1601 A	CNEL	96.3	2	137.3	-53.7	3.1	-18.0	-0.8		0.0	7.2	0.0	6.7	40.8
Motor & Pump P 1601 B	CNEL	96.3	2	137.3	-53.7	3.1	-19.9	-0.8		0.0	0.9	0.0	6.7	32.6
Motor & Pump P 1602 A	CNEL	96.3	2	137.4	-53.8	3.1	-18.3	-0.7		0.0	0.7	0.0	6.7	34.0
Motor & Pump P 1602 B	CNEL	96.5	2	137.4	-53.8	3.1	-18.9	-0.7		0.0	13.9	0.0	6.7	46.8
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	139.7	-53.9	3.7	-3.8	-1.5	-0.79	0.0	0.1	0.0	6.7	47.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	135.0	-53.6	3.6	-3.0	-1.2	-0.71	0.0	0.0	0.0	6.7	48.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	132.6	-53.4	3.5	-3.2	-1.1	-0.66	0.0	0.3	0.0	6.7	48.8
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	139.2	-53.9	3.6	-1.0	-1.6	-0.49	0.0	0.0	0.0	6.7	50.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	137.4	-53.8	3.6	-1.4	-1.5	-0.47	0.0	0.0	0.0	6.7	49.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	126.3	-53.0	3.5	-4.2	-1.4	-0.12	0.0	0.0	0.0	6.7	47.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	126.7	-53.0	3.5	-4.4	-1.3	-0.27	0.0	0.0	0.0	6.7	47.5
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	127.5	-53.1	3.4	-6.6	-0.8	-0.57	0.0	2.6	0.0	6.7	48.0
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	127.1	-53.1	3.5	-4.2	-1.4	-0.53	0.0	0.0	0.0	6.7	47.2
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	97.6	-50.8	2.9	-6.1	-0.5		0.0	0.2	0.0	6.7	56.6
P-2 A/B	CNEL	98.5		429.7	-63.7	5.3	-21.0	-1.4		0.0	0.0	0.0	6.7	24.4
P-50 A/B	CNEL	98.1		387.8	-62.8	5.2	-24.4	-1.7	-0.71	0.0	0.1	0.0	6.7	20.5
P-51 A/B	CNEL	98.1		391.0	-62.8	5.3	-23.0	-1.4	-0.81	0.0	0.1	0.0	6.7	22.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-060 A/B	CNEL	98.1		380.0	-62.6	5.2	-20.8	-1.1	-0.39	0.0	0.0	0.0	6.7	25.1
P-63	CNEL	98.5		416.0	-63.4	5.3	-19.9	-1.3	-1.26	0.0	0.7	0.0	6.7	25.3
P-70 A/B	CNEL	98.1		383.5	-62.7	5.2	-24.4	-1.7	-0.39	0.0	0.0	0.0	6.7	20.9
P-73 A/B	CNEL	98.5		426.6	-63.6	5.3	-24.3	-1.8		0.0	0.0	0.0	6.7	20.7
P-251 A/B	CNEL	98.2		294.5	-60.4	5.1	-21.2	-1.0	-0.49	0.0	0.0	0.0	6.7	26.9
P-252 A/B	CNEL	98.2		286.2	-60.1	5.1	-20.6	-1.0	-0.23	0.0	0.0	0.0	6.7	27.9
P-253	CNEL	98.2		289.6	-60.2	5.1	-22.2	-1.0	-0.23	0.0	0.0	0.0	6.7	26.3
P-254 A/B	CNEL	98.2		299.3	-60.5	5.1	-22.7	-1.2	-0.49	0.0	0.0	0.0	6.7	25.1
P-255 A/B	CNEL	98.2		297.8	-60.5	5.1	-20.5	-1.1	-0.49	0.0	0.0	0.0	6.7	27.4
P-255 A/B	CNEL	98.2		291.5	-60.3	5.1	-21.6	-1.0	-0.48	0.0	0.0	0.0	6.7	26.6
P-256 A/B	CNEL	98.2		295.9	-60.4	5.1	-21.8	-1.1	-0.49	0.0	0.0	0.0	6.7	26.1
P-259 A/B	CNEL	98.2		293.1	-60.3	5.1	-21.4	-1.0	-0.48	0.0	0.0	0.0	6.7	26.7
P-260	CNEL	99.1		278.2	-59.9	5.0	-22.0	-1.0	-0.22	0.0	0.0	0.0	6.7	27.7
P-261 A/B	CNEL	98.0		270.4	-59.6	5.0	-22.8	-1.1	-0.21	0.0	0.0	0.0	6.7	26.0
P-262 A/B	CNEL	99.1		275.1	-59.8	5.0	-21.7	-1.0	-0.21	0.0	0.0	0.0	6.7	28.1
P-263 A/B	CNEL	99.4		276.3	-59.8	5.0	-19.8	-0.9	-0.21	0.0	0.0	0.0	6.7	30.3
P-270 A/B	CNEL	98.5		318.8	-61.1	5.1	-20.3	-1.0	-0.19	0.0	0.0	0.0	6.7	27.8
P-271 A/B	CNEL	98.2		303.7	-60.6	5.1	-21.9	-1.0	-0.50	0.0	0.0	0.0	6.7	25.8
P-272 A/B	CNEL	98.2		301.5	-60.6	5.1	-22.0	-1.1	-0.50	0.0	0.0	0.0	6.7	25.8
P-273 A/B	CNEL	98.5		316.9	-61.0	5.1	-21.6	-1.0	-0.03	0.0	0.0	0.0	6.7	26.6
P-275 A/B/C	CNEL	98.2		294.7	-60.4	5.1	-20.2	-0.9	-0.22	0.0	0.1	0.0	6.7	28.3
P-305	CNEL	99.3		375.5	-62.5	5.2	-22.4	-1.3	-0.51	0.0	0.0	0.0	6.7	24.6
P-306	CNEL	100.8		380.6	-62.6	5.3	-21.0	-1.2	-1.04	0.0	0.0	0.0	6.7	26.8
P-309	CNEL	99.3		376.6	-62.5	5.2	-22.4	-1.3	-0.63	0.0	0.0	0.0	6.7	24.4
P-328	CNEL	100.8		383.8	-62.7	5.3	-19.2	-1.2	-1.45	0.0	0.0	0.0	6.7	28.2
P-329	CNEL	100.8		382.2	-62.6	5.3	-21.3	-1.2	-1.28	0.0	0.0	0.0	6.7	26.3
P-353	CNEL	98.5		364.5	-62.2	5.0	-21.5	-1.2	-0.74	0.0	0.0	0.0	6.7	24.4
P-358 A/B	CNEL	99.4		355.3	-62.0	5.2	-22.6	-1.3	-0.80	0.0	0.0	0.0	6.7	24.6
P-359 A/B	CNEL	99.4		359.3	-62.1	5.2	-22.2	-1.3	-0.93	0.0	0.0	0.0	6.7	24.8
P-360 A/B	CNEL	99.4		366.9	-62.3	5.2	-23.1	-1.4	-1.10	0.0	0.0	0.0	6.7	23.4
P-361A	CNEL	98.1		364.3	-62.2	5.0	-20.4	-1.1	-0.29	0.0	0.4	0.0	6.7	26.1
P-371 A/B	CNEL	98.0		179.8	-56.1	4.1	-20.1	-0.6		0.0	0.1	0.0	6.7	32.1
P-373 A/B	CNEL	98.0		181.1	-56.1	4.1	-22.4	-0.7		0.0	0.3	0.0	6.7	29.8
P-374 A/B	CNEL	98.0		180.4	-56.1	4.1	-18.2	-0.6		0.0	0.1	0.0	6.7	34.0
P-375 A/B	CNEL	98.0		179.2	-56.1	4.1	-18.7	-0.6		0.0	3.4	0.0	6.7	36.8
P-376	CNEL	98.0		180.1	-56.1	4.1	-18.4	-0.6		0.0	0.3	0.0	6.7	34.0
P-376 A/B	CNEL	98.0		181.7	-56.2	4.1	-22.7	-0.7		0.0	0.3	0.0	6.7	29.4
P-377	CNEL	98.0		179.7	-56.1	4.1	-18.5	-0.6		0.0	0.0	0.0	6.7	33.6
P-1101 A	CNEL	98.9		409.3	-63.2	5.1	-22.4	-1.5		0.0	0.0	0.0	6.7	23.5
P-1103	CNEL	98.9		408.2	-63.2	5.1	-22.4	-1.5		0.0	0.0	0.0	6.7	23.5
P-1105 A/B/C	CNEL	98.9		413.1	-63.3	5.1	-21.2	-1.4	-0.43	0.0	0.0	0.0	6.7	24.3
P-1800	CNEL	98.9		461.7	-64.3	5.3	-22.6	-1.5		0.0	2.8	0.0	6.7	25.3
P-1801	CNEL	98.9		494.2	-64.9	5.4	-24.8	-2.2		0.0	2.3	0.0	6.7	21.4
P-1802	CNEL	98.9		492.4	-64.8	5.4	-25.0	-2.2		0.0	0.0	0.0	6.7	18.9
P-1803	CNEL	99.1		364.1	-62.2	5.2	-24.8	-1.7		0.0	2.5	0.0	6.7	24.8
P-1804	CNEL	99.1		384.3	-62.7	5.2	-24.7	-1.7		0.0	1.5	0.0	6.7	23.4
P-1805	CNEL	99.1		386.6	-62.7	5.2	-24.7	-1.7		0.0	0.0	0.0	6.7	21.9
P-1806	CNEL	99.1		346.9	-61.8	5.2	-19.9	-1.0		0.0	0.0	0.0	6.7	28.2
P-1809 A	CNEL	98.9		466.4	-64.4	5.3	-22.4	-1.5	-0.39	0.0	2.1	0.0	6.7	24.4
P-1810 A/B/C	CNEL	99.0		380.4	-62.6	5.2	-24.9	-1.8		0.0	0.0	0.0	6.7	21.7
P-1811 A/B	CNEL	99.1		351.8	-61.9	5.2	-20.5	-1.1		0.0	0.0	0.0	6.7	27.4
P-1811 A/B	CNEL	99.1		389.5	-62.8	5.2	-24.5	-1.7		0.0	0.0	0.0	6.7	22.0
P-1847 A/B	CNEL	99.4		314.3	-60.9	5.1	-20.9	-1.0		0.0	0.0	0.0	6.7	28.2
P-1849 A/B	CNEL	99.4		319.7	-61.1	5.1	-20.8	-1.0		0.0	0.0	0.0	6.7	28.2
P-1853	CNEL	99.1		341.1	-61.6	5.2	-23.8	-1.4	-0.39	0.0	0.0	0.0	6.7	23.7
Piping Furnace Tanks	CNEL	87.1	72	171.2	-55.7	2.8	-22.9	-4.0		0.0	4.4	0.0	6.7	18.3
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	177.8	-56.0	2.9	-22.3	-4.0		0.0	2.8	0.0	6.7	28.4
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	142.9	-54.1	2.9	-24.9	-1.4		0.0	0.3	0.0	6.7	44.1
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	145.3	-54.2	2.9	-24.9	-4.9		0.0	1.3	0.0	6.7	42.0
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	402.2	-63.1	3.8	-23.4	-1.6		0.0	0.2	0.0	6.7	33.1
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	371.4	-62.4	3.6	-14.4	-1.1		0.0	0.0	0.0	6.7	43.5
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	352.6	-61.9	3.6	-16.2	-1.1		0.0	0.1	0.0	6.7	35.2
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	393.2	-62.9	3.7	-23.0	-1.5		0.0	0.6	0.0	6.7	34.6
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	362.2	-62.2	3.6	-22.5	-1.4		0.0	0.3	0.0	6.7	28.5
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	354.1	-62.0	3.6	-17.0	-1.1		0.0	0.9	0.0	6.7	34.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	353.6	-62.0	3.6	-15.4	-1.1		0.0	0.0	0.0	6.7	38.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	370.2	-62.4	3.6	-21.5	-1.3		0.0	2.8	0.0	6.7	34.1	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	380.1	-62.6	2.7	-13.3	-1.2		0.0	0.0	0.0	6.7	45.5	
PSA Pipe 3" Lagging	CNEL	80.6	11	150.0	-54.5	2.8	-22.0	-1.2		0.0	0.4	0.0	6.7	12.8	
PSA Skid Additional Piping w NC	CNEL	116.6	57	142.0	-54.0	2.9	-24.9	-1.4		0.0	0.4	0.0	6.7	46.1	
Reformer-Burner Reformer East	CNEL	97.3	269	164.7	-55.3	2.8	-15.4	-0.6		0.0	2.1	0.0	6.7	40.5	
Reformer-Burner Reformer North	CNEL	95.9	192	164.5	-55.3	2.8	-15.3	-0.6		0.0	0.5	0.0	6.7	34.6	
Reformer-Burner Reformer South	CNEL	95.8	191	175.9	-55.9	2.8	-21.7	-1.0		0.0	1.4	0.0	6.7	31.2	
Reformer-Burner Reformer West	CNEL	97.3	268	175.5	-55.9	2.8	-23.0	-1.1		0.0	1.0	0.0	6.7	30.8	
RFG A from battery to process	CNEL	99.4	87	179.8	-56.1	2.9	-21.5	-3.6		0.0	1.9	0.0	6.7	29.6	
RFG A from battery to process w NC	CNEL	115.2	42	142.7	-54.1	2.9	-24.9	-4.8		0.0	0.9	0.0	6.7	41.8	
Stack Noise	CNEL	108.4		197.3	-56.9	2.7	-5.2	-0.5		-5.5	0.0	0.0	6.7	49.7	
Steam Turbine-Facade 01	CNEL	99.6	29	158.3	-55.0	3.4	-24.4	-3.4		0.0	0.4	0.0	6.7	27.4	
Steam Turbine-Facade 02	CNEL	96.2	13	157.5	-54.9	3.4	-24.5	-3.4		0.0	0.7	0.0	6.7	24.2	
Steam Turbine-Facade 03	CNEL	99.6	29	154.7	-54.8	3.3	-24.4	-3.4		0.0	0.3	0.0	6.7	27.3	
Steam Turbine-Facade 04	CNEL	96.2	13	155.5	-54.8	3.4	-24.3	-3.2		0.0	0.0	0.0	6.7	24.0	
Steam Turbine-Roof 01	CNEL	99.7	30	156.5	-54.9	2.9	-24.3	-3.2		0.0	0.3	0.0	6.7	27.2	
Tank Farm Pump 1	CNEL	99.0	3	291.7	-60.3	4.7	-22.9	-1.5		0.0	2.2	0.0	6.7	27.9	
Tank Farm Pump 2	CNEL	99.0	3	309.6	-60.8	4.8	-21.2	-1.4		0.0	0.1	0.0	6.7	27.1	
Tank Farm Pump 3	CNEL	99.0	3	314.8	-61.0	4.8	-21.0	-1.4		0.0	0.1	0.0	6.7	27.2	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	285.3	-60.1	3.7	-6.0	-2.7	-0.24	0.0	0.1	-13.8	0.0	33.3	
XF-1502 Splitter Area 1	CNEL	104.5		130.7	-53.3	2.8	0.0	-1.0	-0.59	-4.3	0.0	0.0	6.7	54.8	
XF-1502 Splitter Area 2	CNEL	104.5		134.4	-53.6	2.8	0.0	-1.0	-0.61	-4.3	0.0	0.0	6.7	54.6	
XF-1504 Splitter Area 1	CNEL	104.5		130.0	-53.3	2.8	0.0	-1.0	-0.14	-4.3	0.0	0.0	6.7	55.3	
XF-1504 Splitter Area 2	CNEL	104.5		133.7	-53.5	2.8	0.0	-1.0	-0.15	-4.3	0.0	0.0	6.7	55.1	
XF 251, 250, 271, 270	CNEL	101.1	128	299.2	-60.5	2.8	-9.8	-0.4		-1.5	0.0	0.0	6.7	38.3	
XF 260, 261A, 261 B	CNEL	99.9	97	278.9	-59.9	2.8	-13.4	-0.4	0.00	-1.4	0.0	0.0	6.7	34.3	
XF 304, XF 321	CNEL	110.5	56	134.5	-53.6	2.7	-6.6	-0.3	-0.10	-2.4	0.1	0.0	6.7	56.9	
XF 313, XF 314	CNEL	113.0	18	113.8	-52.1	2.7	-9.7	-0.3		-3.1	0.1	0.0	6.7	57.3	
XF 335-1, XF 335-2	CNEL	113.4	54	125.6	-53.0	2.7	-8.0	-0.4	-0.09	-2.5	0.6	0.0	6.7	59.4	
XF 353A/B	CNEL	95.4	35	366.3	-62.3	3.2	-13.9	-0.6	-0.01	-1.5	0.0	0.0	6.7	27.0	
XF 353A/B	CNEL	95.4	35	341.7	-61.7	3.0	-14.5	-0.5		-1.5	0.0	0.0	6.7	26.9	
XF 354A/B	CNEL	95.4	35	369.4	-62.3	3.2	-12.4	-0.5	0.00	-1.4	0.0	0.0	6.7	28.7	
XF 503	CNEL	113.0	21	166.9	-55.4	2.8	-2.3	-3.5	-0.52	-4.0	0.0	0.0	6.7	56.8	
XF - 1601	CNEL	96.6		138.9	-53.8	2.8	-9.4	-0.2		-1.3	0.0	0.0	6.7	41.3	
XF - 1602	CNEL	96.6		138.8	-53.8	2.8	-10.1	-0.2		-1.3	0.0	0.0	6.7	40.6	
XF Module 1510	CNEL	108.3		139.2	-53.9	2.8	0.0	-1.0	-0.77	-4.3	0.0	0.0	6.7	57.8	
XF Module 1519	CNEL	109.0		134.0	-53.5	2.8	0.0	-1.0	-0.66	-4.3	0.0	0.0	6.7	59.0	
xxxx xxxx xxxx xxxx	CNEL		606								8.3			32.1	
xxxx xxxx xxxx xxxx	CNEL		606								8.4			32.4	
xxxx xxxx xxxx xxxx	CNEL		917								10.1			25.7	
xxxx xxxx xxxx xxxx	CNEL		917								9.6			26.0	
xxxx xxxx xxxx xxxx	CNEL		608								3.3			39.9	
xxxx xxxx xxxx xxxx	CNEL		608								3.5			39.9	
xxxx xxxx xxxx xxxx	CNEL		228								6.3			15.1	
xxxx xxxx xxxx xxxx	CNEL		520								4.1			41.5	
xxxx xxxx xxxx xxxx	CNEL		1341								21.6			44.1	
xxxx xxxx xxxx xxxx	CNEL		450								11.8			17.9	
Receiver MH-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 62.1 dB(A)		Ld 7-19 dB(A)		Leq,N 62.0 dB(A)		Le 19-22 dB(A)		CNEL 68.7 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	173.4	-55.8	3.5	-21.0	-1.0		0.0	1.2	0.0	6.7	37.9	
18-1855 A/B	CNEL	98.8		244.6	-58.8	4.6	-23.3	-1.0		0.0	0.0	0.0	6.7	27.0	
18-1856 A/B	CNEL	98.8		247.8	-58.9	4.6	-23.3	-1.0		0.0	0.0	0.0	6.7	26.9	
18-1857 A/B	CNEL	98.8		241.6	-58.7	4.6	-21.2	-0.8		0.0	0.8	0.0	6.7	30.2	
18-1858 A/B	CNEL	98.8		239.7	-58.6	4.3	-21.3	-0.8		0.0	1.1	0.0	6.7	30.2	
18-PK 1802 Air Compressor Package	CNEL	103.1		262.2	-59.4	4.8	-17.7	-0.4		0.0	0.0	0.0	6.7	37.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	267.6	-59.5	4.5	-7.9	-3.0	-0.13	0.0	0.1	-4.8	1.0	39.3	
Air Compressor C 1	CNEL	110.0	5	129.3	-53.2	3.5	-14.6	-0.3		0.0	3.1	0.0	6.7	55.1	
Air Compressor Pump	CNEL	100.3		232.1	-58.3	4.4	-23.7	-2.4		0.0	0.5	0.0	6.7	27.4	
Blower F 401	CNEL	113.0		215.4	-57.7	3.9	-10.5	-0.3	-0.67	0.0	0.0	0.0	6.7	54.5	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	393.2	-62.9	4.9	-20.0	-0.9	-1.16	0.0	0.4	0.0	6.7	25.5	
Boiler Feed Water Pump A	CNEL	97.1	3	226.4	-58.1	4.4	-22.2	-1.0		0.0	0.0	0.0	6.7	26.9	
Boiler Feed Water Pump B	CNEL	97.1	3	229.4	-58.2	4.4	-22.0	-1.0		0.0	0.0	0.0	6.7	26.9	
C370 A Motor	CNEL	103.6	3	188.4	-56.5	3.0	-22.1	-0.9		0.0	0.1	0.0	6.7	33.9	
C370 B Motor	CNEL	108.6	3	190.9	-56.6	3.0	-21.7	-0.8		0.0	13.7	0.0	6.7	52.8	
C370A	CNEL	103.8	5	184.1	-56.3	3.0	-22.2	-0.9		0.0	0.1	0.0	6.7	34.2	
C370B	CNEL	103.8	5	186.7	-56.4	3.0	-21.7	-0.8		0.0	13.6	0.0	6.7	48.2	
C-270 A	CNEL	106.3	6	326.8	-61.3	4.3	-9.6	-1.2	-0.32	0.0	0.0	0.0	6.7	44.9	
C-270 B	CNEL	106.3	6	324.7	-61.2	4.3	-7.0	-1.5	-0.10	0.0	0.0	0.0	6.7	47.5	
C-270 C	CNEL	106.3	6	322.5	-61.2	4.3	-11.4	-1.5	-0.17	0.0	0.2	0.0	6.7	43.3	
C-301 Compressor	CNEL	106.8	3	313.4	-60.9	4.3	-11.1	-1.1	-0.14	0.0	0.0	0.0	6.7	44.5	
C-301 Motor	CNEL	106.8	4	311.4	-60.9	4.3	-13.4	-1.5	-0.16	0.0	0.0	0.0	6.7	41.8	
C-351 Compressor	CNEL	106.8	4	330.4	-61.4	4.3	-18.2	-1.0	-0.54	0.0	0.0	0.0	6.7	36.7	
C-351 Motor	CNEL	106.8	5	334.5	-61.5	4.1	-15.6	-1.6	-0.75	0.0	0.0	0.0	6.7	38.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cars Pumping 6 times in during delivery	CNEL	134.7	361	263.5	-59.4	4.6	-8.2	-0.6	-0.35	0.0	0.0	-35.6	0.0	35.2
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	194.1	-56.8	3.3	-11.8	-0.5	-0.52	3.0	0.0	0.0	6.7	48.2
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	187.5	-56.5	3.3	-4.5	-1.2	-0.52	0.0	0.0	0.0	6.7	47.9
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	192.6	-56.7	3.4	-5.7	-0.7	-0.45	2.1	0.0	0.0	6.7	55.2
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	202.0	-57.1	3.4	-18.1	-0.4	-0.42	-7.8	0.1	0.0	6.7	37.1
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	190.9	-56.6	3.3	-15.5	-0.4	-0.53	-7.8	0.1	0.0	6.7	33.0
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	204.3	-57.2	3.4	-18.6	-0.6	-0.58	-7.6	0.0	0.0	6.7	25.9
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	158.6	-55.0	3.2	-18.1	-0.4		4.4	0.1	0.0	6.7	38.8
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	162.4	-55.2	3.2	-18.9	-0.5	-0.46	-5.2	5.3	0.0	6.7	32.7
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	155.0	-54.8	3.0	-10.3	-0.4		3.4	1.2	0.0	6.7	49.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	158.0	-55.0	3.0	-22.0	-0.7		-3.8	0.1	0.0	6.7	29.0
Cooling Tower M 512	CNEL	95.7		166.6	-55.4	3.8	-22.7	-0.8		0.0	0.0	0.0	6.7	27.3
Cooling Tower M 513	CNEL	95.7		167.2	-55.5	3.7	-22.6	-0.8	-0.07	0.0	0.0	0.0	6.7	27.2
Cooling Tower M 514	CNEL	95.7		166.3	-55.4	3.8	-22.6	-0.8		0.0	0.0	0.0	6.7	27.4
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	199.3	-57.0	2.8	-13.4	-0.3		-1.6	0.0	0.0	6.7	32.9
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	159.8	-55.1	3.1	-14.8	0.0		0.0	0.0	0.0	6.7	35.3
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	157.3	-54.9	3.2	-11.8	0.0		0.0	0.0	0.0	6.7	36.2
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	159.1	-55.0	2.8	-10.9	0.0		0.0	0.0	0.0	6.7	37.0
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	160.7	-55.1	3.1	-12.2	0.0		0.0	0.0	0.0	6.7	35.6
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	158.2	-55.0	3.1	-9.4	0.0		0.0	0.0	0.0	6.7	40.8
FD Motor	CNEL	103.3	2	160.5	-55.1	3.3	-23.6	-1.5		0.0	1.7	0.0	6.7	34.7
Feed Compressor -B Motor	CNEL	103.8	5	210.9	-57.5	3.3	-12.4	-1.2		0.0	0.1	0.0	6.7	42.7
Feed Compressor-A Compressor	CNEL	104.0	5	200.8	-57.0	3.4	-19.0	-0.8		0.0	0.5	0.0	6.7	37.6
Feed Compressor-A Motor	CNEL	103.8	6	205.8	-57.3	3.2	-20.6	-1.4		0.0	0.3	0.0	6.7	34.7
Feed Compressor-B Compressor	CNEL	104.0	7	205.4	-57.2	3.4	-10.7	-0.8		0.0	0.0	0.0	6.7	45.4
H2S Compressor 18-C-271	CNEL	105.3	6	154.5	-54.8	3.2	-6.1	-0.9	-0.32	0.0	0.0	0.0	6.7	53.2
Heater # 5-Heater	CNEL	91.1	13	389.1	-62.8	4.9	-21.3	-1.0	-1.18	0.0	0.6	0.0	6.7	19.9
Heater # 5-Heater	CNEL	91.1	13	386.7	-62.7	4.9	-20.5	-1.0	-0.75	0.0	0.0	0.0	6.7	20.7
Heater # 5-Heater	CNEL	91.1	13	391.4	-62.8	4.9	-21.2	-1.0	-1.52	0.0	1.8	0.0	6.7	20.8
Hydro Heater H-402	CNEL	98.1		176.5	-55.9	3.8	-10.1	-0.3	-0.50	0.0	0.0	0.0	6.7	41.7
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	175.6	-55.9	3.6	-15.3	0.0		0.0	0.0	0.0	6.7	26.0
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	177.5	-56.0	3.6	-14.6	0.0		0.0	0.0	0.0	6.7	27.0
ID Fan-ID Fan - North	CNEL	92.2	8	174.4	-55.8	3.5	-10.5	0.0		0.0	0.0	0.0	6.7	36.1
ID Fan-ID Fan - North 2	CNEL	91.4	7	176.7	-55.9	3.6	-10.9	0.0		0.0	0.0	0.0	6.7	34.8
ID Fan-ID Fan - South	CNEL	92.3	9	176.9	-55.9	3.6	-15.2	0.0		0.0	0.0	0.0	6.7	31.4
ID Fan-ID Fan - South 2	CNEL	91.4	7	177.9	-56.0	3.6	-14.7	0.0		0.0	0.0	0.0	6.7	30.9
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	176.1	-55.9	2.9	-10.3	0.0		0.0	0.0	0.0	6.7	37.2
Motor & Pump P 56A/B	CNEL	93.7		166.2	-55.4	3.8	-8.2	-0.9	-0.27	0.0	0.0	0.0	6.7	39.4
Motor & Pump P 120/121	CNEL	96.2	2	137.9	-53.8	3.5	-7.1	-0.5		0.0	1.9	0.0	6.7	46.9
Motor & Pump P 211/212	CNEL	93.7		197.7	-56.9	4.3	-9.2	-0.9	-1.07	0.0	0.7	0.0	6.7	37.2
Motor & Pump P 215/214	CNEL	94.6		193.5	-56.7	4.3	-10.1	-0.9	-0.94	0.0	3.6	0.0	6.7	40.4
Motor & Pump P 216	CNEL	98.3		200.9	-57.0	4.1	-9.4	-1.0	-1.05	0.0	0.0	0.0	6.7	40.6
Motor & Pump P 217/218	CNEL	93.7		196.2	-56.8	4.6	-10.1	-0.9	-1.03	0.0	1.3	0.0	6.7	37.3
Motor & Pump P 300	CNEL	97.1	2	145.0	-54.2	3.7	-8.7	-0.5		0.0	1.9	0.0	6.7	46.0
Motor & Pump P 301	CNEL	102.1	2	146.1	-54.3	3.7	-7.8	-0.5		0.0	1.8	0.0	6.7	51.6
Motor & Pump P 302	CNEL	97.1	2	143.8	-54.1	3.7	-10.1	-0.5		0.0	2.0	0.0	6.7	44.7
Motor & Pump P 303	CNEL	97.1	2	142.9	-54.1	3.6	-10.6	-0.5		0.0	2.4	0.0	6.7	44.6
Motor & Pump P 305	CNEL	97.5	2	141.9	-54.0	3.6	-16.1	-0.4		0.0	6.3	0.0	6.7	43.5
Motor & Pump P 306	CNEL	112.6	4	136.0	-53.7	3.1	-18.5	-0.5		0.0	0.4	0.0	6.7	50.1
Motor & Pump P 307	CNEL	102.1	2	149.5	-54.5	3.8	-1.0	-0.9		0.0	2.0	0.0	6.7	58.2
Motor & Pump P 309	CNEL	97.5	2	140.9	-54.0	3.5	-13.3	-0.5		0.0	4.5	0.0	6.7	44.4
Motor & Pump P 312	CNEL	101.5	2	165.5	-55.4	4.2	-16.2	-0.5	-0.30	0.0	5.9	0.0	6.7	45.8
Motor & Pump P 313	CNEL	101.5	2	166.9	-55.4	4.2	-15.7	-0.5	-0.34	0.0	2.0	0.0	6.7	42.4
Motor & Pump P 315	CNEL	102.9	2	172.0	-55.7	4.1	-6.4	-0.7	-0.34	0.0	0.0	0.0	6.7	50.6
Motor & Pump P 316	CNEL	102.9	2	173.6	-55.8	4.1	-6.2	-0.7	-0.34	0.0	0.0	0.0	6.7	50.6
Motor & Pump P 317	CNEL	102.9	2	175.1	-55.9	4.0	-6.0	-0.7	-0.35	0.0	0.0	0.0	6.7	50.7
Motor & Pump P 318	CNEL	100.2	1	170.2	-55.6	4.3	-10.6	-0.6	-0.34	0.0	0.2	0.0	6.7	44.2
Motor & Pump P 319	CNEL	100.2	1	169.0	-55.5	4.3	-14.3	-0.5	-0.35	0.0	0.1	0.0	6.7	40.7
Motor & Pump P 327	CNEL	111.2	3	131.9	-53.4	3.4	-16.8	-0.8		0.0	2.4	0.0	6.7	52.8
Motor & Pump P 328	CNEL	109.9	5	139.6	-53.9	3.3	-13.5	-0.5		0.0	4.0	0.0	6.7	56.0
Motor & Pump P 329	CNEL	110.2	5	137.8	-53.8	3.2	-18.0	-0.5		0.0	2.9	0.0	6.7	50.8
Motor & Pump P 451	CNEL	93.7		182.2	-56.2	4.0	-17.8	-1.0		0.0	0.2	0.0	6.7	29.4
Motor & Pump P 453	CNEL	93.7		191.9	-56.7	4.1	-18.2	-1.0	-0.62	0.0	0.0	0.0	6.7	27.9
Motor & Pump P 454	CNEL	93.7		182.5	-56.2	4.0	-17.2	-1.0		0.0	0.1	0.0	6.7	30.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 457	CNEL	93.7		193.3	-56.7	4.1	-18.3	-1.0	-0.62	0.0	0.0	0.0	6.7	27.8
Motor & Pump P 458	CNEL	93.7		181.8	-56.2	4.0	-16.0	-0.8	-0.50	0.0	0.1	0.0	6.7	30.9
Motor & Pump P 459	CNEL	93.7		181.6	-56.2	4.0	-16.6	-1.0		0.0	0.1	0.0	6.7	30.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		150.1	-54.5	3.7	-16.5	-0.7	-0.72	0.0	0.1	0.0	6.7	34.3
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		148.5	-54.4	3.7	-16.2	-0.7	-0.69	0.0	3.9	0.0	6.7	38.5
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		114.4	-52.2	3.1	-10.2	-0.7	-0.08	0.0	0.0	0.0	6.7	42.0
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		113.3	-52.1	3.1	-9.8	-0.7	-0.06	0.0	0.0	0.0	6.7	42.6
Motor & Pump P 1601 A	CNEL	96.3	2	140.6	-54.0	3.2	-21.4	-0.9		0.0	1.3	0.0	6.7	31.2
Motor & Pump P 1601 B	CNEL	96.3	2	140.3	-53.9	3.2	-20.3	-0.8		0.0	2.2	0.0	6.7	33.3
Motor & Pump P 1602 A	CNEL	96.3	2	140.3	-53.9	3.2	-20.1	-0.8		0.0	7.1	0.0	6.7	38.4
Motor & Pump P 1602 B	CNEL	96.5	2	140.0	-53.9	3.1	-19.8	-0.8		0.0	5.4	0.0	6.7	37.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	146.1	-54.3	3.8	-20.0	-0.9	-0.27	0.0	0.7	0.0	6.7	32.4
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	141.5	-54.0	3.7	-19.5	-0.8	-0.48	0.0	0.8	0.0	6.7	33.0
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	139.2	-53.9	3.6	-19.3	-0.8	-0.47	0.0	1.2	0.0	6.7	33.7
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	147.0	-54.3	3.7	-16.2	-0.7	-0.68	0.0	0.3	0.0	6.7	35.4
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	145.3	-54.2	3.6	-15.9	-0.7	-0.65	0.0	0.3	0.0	6.7	35.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	132.1	-53.4	3.6	-20.6	-0.8	-0.06	0.0	0.0	0.0	6.7	31.6
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	132.8	-53.5	3.6	-20.3	-0.8	-0.20	0.0	0.0	0.0	6.7	31.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	134.3	-53.6	3.5	-19.0	-0.8	-0.43	0.0	0.0	0.0	6.7	32.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	133.7	-53.5	3.5	-19.5	-0.8	-0.35	0.0	0.0	0.0	6.7	32.4
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	111.0	-51.9	2.9	-10.0	-0.5		0.0	0.4	0.0	6.7	51.8
P-2 A/B	CNEL	98.5		414.3	-63.3	5.3	-20.8	-1.3	-0.47	0.0	0.0	0.0	6.7	24.5
P-50 A/B	CNEL	98.1		373.0	-62.4	5.2	-24.3	-1.6	-0.65	0.0	0.0	0.0	6.7	21.1
P-51 A/B	CNEL	98.1		376.2	-62.5	5.2	-18.0	-1.1	-0.74	0.0	0.0	0.0	6.7	27.6
P-060 A/B	CNEL	98.1		364.8	-62.2	5.2	-18.5	-1.1	-0.35	0.0	0.0	0.0	6.7	27.8
P-63	CNEL	98.5		401.8	-63.1	5.3	-16.8	-1.2	-0.80	0.0	0.3	0.0	6.7	28.9
P-70 A/B	CNEL	98.1		368.4	-62.3	5.2	-24.4	-1.6	-0.51	0.0	0.0	0.0	6.7	21.2
P-73 A/B	CNEL	98.5		411.3	-63.3	5.3	-23.5	-1.6		0.0	0.0	0.0	6.7	22.0
P-251 A/B	CNEL	98.2		286.2	-60.1	5.1	-22.3	-1.0	-0.47	0.0	0.4	0.0	6.7	26.4
P-252 A/B	CNEL	98.2		277.2	-59.8	5.0	-22.4	-1.0	-0.22	0.0	0.4	0.0	6.7	26.9
P-253	CNEL	98.2		280.1	-59.9	5.0	-21.7	-0.9	-0.22	0.0	0.3	0.0	6.7	27.4
P-254 A/B	CNEL	98.2		290.1	-60.2	5.1	-21.5	-1.0	-0.47	0.0	0.3	0.0	6.7	27.1
P-255 A/B	CNEL	98.2		288.8	-60.2	5.1	-22.3	-1.0	-0.47	0.0	0.4	0.0	6.7	26.4
P-255 A/B	CNEL	98.2		283.7	-60.0	5.1	-24.0	-1.2	-0.46	0.0	0.5	0.0	6.7	24.7
P-256 A/B	CNEL	98.2		287.3	-60.2	5.1	-22.3	-1.0	-0.47	0.0	0.4	0.0	6.7	26.4
P-259 A/B	CNEL	98.2		284.9	-60.1	5.1	-24.0	-1.3	-0.46	0.0	0.6	0.0	6.7	24.6
P-260	CNEL	99.1		270.7	-59.6	5.0	-24.0	-1.2	-0.21	0.0	0.6	0.0	6.7	26.3
P-261 A/B	CNEL	98.0		264.9	-59.5	5.0	-22.2	-1.0	-0.21	0.0	0.0	0.0	6.7	26.8
P-262 A/B	CNEL	99.1		268.3	-59.6	5.0	-23.2	-1.1	-0.21	0.0	0.5	0.0	6.7	27.2
P-263 A/B	CNEL	99.4		269.2	-59.6	5.0	-24.0	-1.2	-0.20	0.0	0.2	0.0	6.7	26.2
P-270 A/B	CNEL	98.5		306.8	-60.7	5.1	-21.9	-1.0	-0.21	0.0	0.0	0.0	6.7	26.4
P-271 A/B	CNEL	98.2		293.9	-60.4	5.1	-21.1	-0.9	-0.48	0.0	0.9	0.0	6.7	28.0
P-272 A/B	CNEL	98.2		292.0	-60.3	5.1	-21.6	-1.0	-0.48	0.0	1.0	0.0	6.7	27.6
P-273 A/B	CNEL	98.5		305.1	-60.7	5.1	-22.8	-1.1	-0.04	0.0	0.0	0.0	6.7	25.7
P-275 A/B/C	CNEL	98.2		284.4	-60.1	5.0	-21.2	-0.9	-0.21	0.0	0.7	0.0	6.7	28.2
P-305	CNEL	99.3		364.5	-62.2	5.2	-23.0	-1.3	-0.35	0.0	0.0	0.0	6.7	24.3
P-306	CNEL	100.8		369.2	-62.3	5.2	-22.2	-1.3	-1.26	0.0	0.0	0.0	6.7	25.6
P-309	CNEL	99.3		365.6	-62.3	5.2	-23.1	-1.3	-0.58	0.0	0.0	0.0	6.7	24.0
P-328	CNEL	100.8		372.1	-62.4	5.2	-19.4	-1.1	-1.52	0.0	0.0	0.0	6.7	28.3
P-329	CNEL	100.8		370.6	-62.4	5.2	-19.3	-1.1	-1.48	0.0	0.0	0.0	6.7	28.4
P-353	CNEL	98.5		353.0	-61.9	4.9	-22.4	-1.3	-0.89	0.0	0.0	0.0	6.7	23.6
P-358 A/B	CNEL	99.4		342.2	-61.7	5.2	-20.2	-1.0	-0.78	0.0	0.0	0.0	6.7	27.6
P-359 A/B	CNEL	99.4		346.3	-61.8	5.2	-22.6	-1.2	-0.90	0.0	0.0	0.0	6.7	24.7
P-360 A/B	CNEL	99.4		354.1	-62.0	5.2	-23.2	-1.3	-1.11	0.0	0.0	0.0	6.7	23.7
P-361A	CNEL	98.1		348.5	-61.8	4.9	-20.9	-1.1	-0.30	0.0	0.0	0.0	6.7	25.5
P-371 A/B	CNEL	98.0		179.8	-56.1	4.1	-4.2	-1.1		0.0	0.0	0.0	6.7	47.4
P-373 A/B	CNEL	98.0		178.5	-56.0	4.1	-19.2	-0.6		0.0	4.7	0.0	6.7	37.6
P-374 A/B	CNEL	98.0		178.3	-56.0	4.1	-15.3	-0.6		0.0	2.8	0.0	6.7	39.6
P-375 A/B	CNEL	98.0		178.2	-56.0	4.1	-0.2	-1.0		0.0	0.0	0.0	6.7	51.6
P-376	CNEL	98.0		178.3	-56.0	4.1	-9.0	-0.6		0.0	0.1	0.0	6.7	43.3
P-376 A/B	CNEL	98.0		178.6	-56.0	4.1	-21.1	-0.7		0.0	5.3	0.0	6.7	36.2
P-377	CNEL	98.0		178.3	-56.0	4.1	-4.0	-0.9		0.0	0.0	0.0	6.7	47.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1101 A	CNEL	98.9		393.5	-62.9	5.0	-23.1	-1.5		0.0	0.8	0.0	6.7	23.8
P-1103	CNEL	98.9		392.5	-62.9	5.0	-23.1	-1.5		0.0	0.8	0.0	6.7	23.8
P-1105 A/B/C	CNEL	98.9		397.1	-63.0	5.0	-23.6	-1.6		0.0	1.7	0.0	6.7	24.2
P-1800	CNEL	98.9		446.2	-64.0	5.3	-20.9	-1.2		0.0	4.3	0.0	6.7	29.1
P-1801	CNEL	98.9		477.2	-64.6	5.3	-24.8	-2.1		0.0	2.4	0.0	6.7	21.8
P-1802	CNEL	98.9		475.4	-64.5	5.3	-25.0	-2.1		0.0	3.9	0.0	6.7	23.2
P-1803	CNEL	99.1		347.5	-61.8	5.2	-24.6	-1.6		0.0	5.9	0.0	6.7	28.8
P-1804	CNEL	99.1		367.8	-62.3	5.2	-23.8	-1.4		0.0	0.9	0.0	6.7	24.4
P-1805	CNEL	99.1		370.0	-62.4	5.2	-23.6	-1.4		0.0	1.2	0.0	6.7	24.8
P-1806	CNEL	99.1		331.2	-61.4	5.1	-22.5	-1.1		0.0	0.0	0.0	6.7	25.9
P-1809 A	CNEL	98.9		450.4	-64.1	5.3	-20.1	-1.3		0.0	1.7	0.0	6.7	27.1
P-1810 A/B/C	CNEL	99.0		363.4	-62.2	5.2	-24.9	-1.7		0.0	0.0	0.0	6.7	22.1
P-1811 A/B	CNEL	99.1		335.8	-61.5	5.1	-20.7	-1.1		0.0	0.0	0.0	6.7	27.6
P-1811 A/B	CNEL	99.1		372.7	-62.4	5.2	-24.4	-1.6		0.0	0.0	0.0	6.7	22.5
P-1847 A/B	CNEL	99.4		295.6	-60.4	5.0	-21.7	-1.0		0.0	0.2	0.0	6.7	28.1
P-1849 A/B	CNEL	99.4		300.8	-60.6	5.0	-21.8	-1.0		0.0	0.3	0.0	6.7	28.0
P-1853	CNEL	99.1		332.3	-61.4	5.2	-22.1	-1.1	-0.81	0.0	0.4	0.0	6.7	25.9
Piping Furnace Tanks	CNEL	87.1	72	160.8	-55.1	2.8	-16.1	-4.1		0.0	5.6	0.0	6.7	26.9
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	169.1	-55.6	2.9	-20.1	-3.6		0.0	6.9	0.0	6.7	35.6
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	137.3	-53.7	2.9	-24.9	-1.4		0.0	0.5	0.0	6.7	44.6
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	139.3	-53.9	2.9	-24.9	-4.8		0.0	2.1	0.0	6.7	43.3
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	382.1	-62.6	3.7	-23.5	-1.5		0.0	0.5	0.0	6.7	33.7
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	351.2	-61.9	3.5	-13.1	-1.1		0.0	0.0	0.0	6.7	45.3
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	333.2	-61.4	3.5	-16.9	-1.0		0.0	0.1	0.0	6.7	35.0
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	374.1	-62.5	3.6	-23.6	-1.5		0.0	0.6	0.0	6.7	34.4
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	343.3	-61.7	3.5	-23.5	-1.4		0.0	0.7	0.0	6.7	28.4
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	334.4	-61.5	3.5	-16.5	-1.0		0.0	0.8	0.0	6.7	35.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	334.6	-61.5	3.5	-16.6	-1.0		0.0	0.1	0.0	6.7	37.9
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	351.5	-61.9	3.6	-21.9	-1.3		0.0	1.7	0.0	6.7	33.0
Pre-Treat Train-Roof 01	CNEL	113.1	2037	360.4	-62.1	2.8	-14.9	-1.1		0.0	0.1	0.0	6.7	44.4
PSA Pipe 3" Lagging	CNEL	80.6	11	141.6	-54.0	2.8	-21.9	-1.2		0.0	0.2	0.0	6.7	13.3
PSA Skid Additional Piping w NC	CNEL	116.6	57	136.8	-53.7	2.9	-24.9	-1.4		0.0	0.3	0.0	6.7	46.5
Reformer-Burner Reformer East	CNEL	97.3	269	151.3	-54.6	2.8	-0.6	-1.4		0.0	0.0	0.0	6.7	53.3
Reformer-Burner Reformer North	CNEL	95.9	192	152.5	-54.7	2.8	-0.7	-1.4		0.0	0.0	0.0	6.7	48.6
Reformer-Burner Reformer South	CNEL	95.8	191	161.7	-55.2	2.8	-18.2	-0.8		0.0	1.9	0.0	6.7	36.1
Reformer-Burner Reformer West	CNEL	97.3	268	163.0	-55.2	2.8	-20.9	-0.9		0.0	0.4	0.0	6.7	33.1
RFG A from battery to process	CNEL	99.4	87	170.6	-55.6	2.9	-16.6	-3.8		0.0	4.9	0.0	6.7	37.8
RFG A from battery to process w NC	CNEL	115.2	42	136.6	-53.7	2.9	-24.9	-4.7		0.0	1.5	0.0	6.7	42.9
Stack Noise	CNEL	108.4		181.3	-56.2	2.7	-2.4	-2.1		-7.7	0.0	0.0	6.7	49.5
Steam Turbine-Facade 01	CNEL	99.6	29	154.2	-54.8	3.4	-24.3	-3.3		0.0	0.1	0.0	6.7	27.5
Steam Turbine-Facade 02	CNEL	96.2	13	152.8	-54.7	3.4	-24.5	-3.4		0.0	0.4	0.0	6.7	24.2
Steam Turbine-Facade 03	CNEL	99.6	29	150.5	-54.5	3.2	-24.4	-3.2		0.0	0.0	0.0	6.7	27.3
Steam Turbine-Facade 04	CNEL	96.2	13	152.0	-54.6	3.3	-24.1	-3.1		0.0	0.0	0.0	6.7	24.4
Steam Turbine-Roof 01	CNEL	99.7	30	152.4	-54.6	2.9	-24.2	-3.1		0.0	0.2	0.0	6.7	27.4
Tank Farm Pump 1	CNEL	99.0	3	272.5	-59.7	4.6	-23.1	-1.5		0.0	2.3	0.0	6.7	28.3
Tank Farm Pump 2	CNEL	99.0	3	289.8	-60.2	4.7	-21.3	-1.4		0.0	0.6	0.0	6.7	28.1
Tank Farm Pump 3	CNEL	99.0	3	294.9	-60.4	4.7	-21.1	-1.4		0.0	0.1	0.0	6.7	27.7
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	299.9	-60.5	3.7	-5.6	-3.1	-0.16	0.0	0.1	-13.8	0.0	33.1
XF-1502 Splitter Area 1	CNEL	104.5		137.1	-53.7	2.8	-18.8	-0.6	-0.05	-2.8	0.0	0.0	6.7	38.1
XF-1502 Splitter Area 2	CNEL	104.5		140.6	-54.0	2.8	-19.6	-0.6	0.00	-3.0	0.0	0.0	6.7	36.9
XF-1504 Splitter Area 1	CNEL	104.5		135.6	-53.6	2.8	-19.7	-0.6	-0.05	-2.7	0.0	0.0	6.7	37.4
XF-1504 Splitter Area 2	CNEL	104.5		139.2	-53.9	2.8	-19.8	-0.6	-0.04	-2.7	0.0	0.0	6.7	37.1
XF 251, 250, 271, 270	CNEL	101.1	128	289.1	-60.2	2.8	-6.5	-0.7		-2.3	0.1	0.0	6.7	40.9
XF 260, 261A, 261 B	CNEL	99.9	97	272.7	-59.7	2.8	-13.2	-0.4	0.00	-1.3	0.0	0.0	6.7	34.8
XF 304, XF 321	CNEL	110.5	56	151.4	-54.6	2.7	-6.5	-0.4	-0.09	-2.5	0.2	0.0	6.7	56.0
XF 313, XF 314	CNEL	113.0	18	133.3	-53.5	2.6	-9.3	-0.4		-3.2	0.1	0.0	6.7	56.2
XF 335-1, XF 335-2	CNEL	113.4	54	143.5	-54.1	2.7	-7.6	-0.5	-0.08	-2.6	0.2	0.0	6.7	58.0
XF 353A/B	CNEL	95.4	35	353.0	-61.9	3.1	-9.3	-0.6	-0.01	-1.7	0.0	0.0	6.7	31.8
XF 353A/B	CNEL	95.4	35	328.3	-61.3	2.9	-9.3	-0.5		-1.7	0.0	0.0	6.7	32.1
XF 354A/B	CNEL	95.4	35	358.2	-62.1	3.1	-5.8	-0.8	0.00	-2.2	0.0	0.0	6.7	34.4
XF 503	CNEL	113.0	21	178.4	-56.0	2.8	-2.0	-3.9	-0.53	-4.0	0.0	0.0	6.7	56.1
XF - 1601	CNEL	96.6		141.9	-54.0	2.8	-14.4	-0.2		-0.8	1.4	0.0	6.7	38.0
XF - 1602	CNEL	96.6		140.7	-54.0	2.8	-12.8	-0.2		-0.8	0.0	0.0	6.7	38.3
XF Module 1510	CNEL	108.3		146.2	-54.3	2.8	-17.9	-0.6	-0.22	-2.8	0.0	0.0	6.7	42.0
XF Module 1519	CNEL	109.0		141.2	-54.0	2.8	-17.3	-0.6	-0.21	-2.9	0.0	0.0	6.7	43.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	CNEL		606								7.4			32.5	
xxxx xxxx xxxx xxxx	CNEL		606								7.5			33.0	
xxxx xxxx xxxx xxxx	CNEL		917								10.9			26.1	
xxxx xxxx xxxx xxxx	CNEL		917								11.5			26.8	
xxxx xxxx xxxx xxxx	CNEL		608								2.7			38.9	
xxxx xxxx xxxx xxxx	CNEL		608								2.7			38.8	
xxxx xxxx xxxx xxxx	CNEL		228								5.4			14.1	
xxxx xxxx xxxx xxxx	CNEL		520								5.1			43.3	
xxxx xxxx xxxx xxxx	CNEL		1341								5.2			47.3	
xxxx xxxx xxxx xxxx	CNEL		450								12.2			20.3	
Receiver MH-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 60.6 dB(A)		Ld 7-19 dB(A)		Leq,N 60.5 dB(A)		Le 19-22 dB(A)		CNEL 67.2 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	159.8	-55.1	3.3	-22.8	-1.1		0.0	4.6	0.0	6.7	39.8	
18-1855 A/B	CNEL	98.8		235.6	-58.4	4.6	-23.4	-1.0		0.0	0.0	0.0	6.7	27.2	
18-1856 A/B	CNEL	98.8		238.3	-58.5	4.6	-23.5	-1.0		0.0	0.0	0.0	6.7	27.1	
18-1857 A/B	CNEL	98.8		233.2	-58.3	4.5	-22.9	-0.9		0.0	0.1	0.0	6.7	27.9	
18-1858 A/B	CNEL	98.8		231.7	-58.3	4.3	-21.9	-0.8		0.0	0.0	0.0	6.7	28.7	
18-PK 1802 Air Compressor Package	CNEL	103.1		252.6	-59.0	4.8	-20.8	-0.5		0.0	0.0	0.0	6.7	34.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	273.7	-59.7	4.5	-11.9	-2.4	-0.15	0.0	0.0	-4.8	1.0	35.7	
Air Compressor C 1	CNEL	110.0	5	147.6	-54.4	3.7	-15.1	-0.4		0.0	1.5	0.0	6.7	52.1	
Air Compressor Pump	CNEL	100.3		230.4	-58.2	4.4	-20.6	-1.4		0.0	0.0	0.0	6.7	31.0	
Blower F 401	CNEL	113.0		225.9	-58.1	3.9	-15.6	-0.3	-0.42	0.0	0.0	0.0	6.7	49.3	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	383.4	-62.7	4.8	-21.6	-1.0	-0.99	0.0	0.6	0.0	6.7	24.4	
Boiler Feed Water Pump A	CNEL	97.1	3	216.0	-57.7	4.3	-23.8	-1.1		0.0	0.0	0.0	6.7	25.5	
Boiler Feed Water Pump B	CNEL	97.1	3	219.1	-57.8	4.3	-23.8	-1.1		0.0	0.0	0.0	6.7	25.4	
C370 A Motor	CNEL	103.6	3	186.1	-56.4	2.9	-16.6	-0.5		0.0	0.2	0.0	6.7	39.9	
C370 B Motor	CNEL	108.6	3	187.3	-56.4	2.9	-19.6	-0.7		0.0	1.9	0.0	6.7	43.3	
C370A	CNEL	103.8	5	181.7	-56.2	3.0	-13.2	-0.8		0.0	0.0	0.0	6.7	43.4	
C370B	CNEL	103.8	5	183.0	-56.2	3.0	-12.6	-0.9		0.0	0.2	0.0	6.7	43.9	
C-270 A	CNEL	106.3	6	317.1	-61.0	4.3	-17.3	-1.1	-0.35	0.0	0.1	0.0	6.7	37.6	
C-270 B	CNEL	106.3	6	315.3	-61.0	4.3	-16.5	-1.0	-0.11	0.0	0.1	0.0	6.7	38.7	
C-270 C	CNEL	106.3	6	313.4	-60.9	4.3	-15.5	-1.1		0.0	0.3	0.0	6.7	40.1	
C-301 Compressor	CNEL	106.8	3	302.0	-60.6	4.2	-17.9	-0.9	-0.13	0.0	0.0	0.0	6.7	38.2	
C-301 Motor	CNEL	106.8	4	300.2	-60.5	4.2	-18.4	-1.5	-0.16	0.0	0.0	0.0	6.7	37.0	
C-351 Compressor	CNEL	106.8	4	319.4	-61.1	4.3	-19.3	-1.1	-0.53	0.0	0.0	0.0	6.7	35.7	
C-351 Motor	CNEL	106.8	5	323.7	-61.2	4.0	-19.4	-1.7	-0.53	0.0	0.0	0.0	6.7	34.7	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	272.1	-59.7	4.6	-11.0	-0.6	-0.24	0.0	0.0	-35.6	0.0	32.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	208.9	-57.4	3.5	-18.1	-0.5	-0.53	2.7	0.1	0.0	6.7	41.3	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	202.3	-57.1	3.4	-14.0	-0.6	-0.52	0.0	0.0	0.0	6.7	38.4	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	208.3	-57.4	3.4	-14.4	-0.4	-0.38	2.4	0.0	0.0	6.7	46.4	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	217.3	-57.7	3.5	-20.7	-0.6	-0.35	-7.7	0.2	0.0	6.7	33.9	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	205.7	-57.3	3.4	-19.6	-0.5	-0.51	-7.8	0.2	0.0	6.7	28.4	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	220.4	-57.9	3.5	-21.3	-0.8	-0.49	-7.7	0.1	0.0	6.7	22.5	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	166.4	-55.4	3.2	-18.6	-0.5		3.9	0.0	0.0	6.7	37.2	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	171.8	-55.7	3.2	-21.9	-0.8	-0.17	-6.3	0.1	0.0	6.7	23.0	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	159.5	-55.0	3.0	-16.2	-0.4		4.4	0.8	0.0	6.7	43.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	165.0	-55.3	3.1	-20.8	-0.7		-5.4	0.0	0.0	6.7	28.3	
Cooling Tower M 512	CNEL	95.7		175.0	-55.9	3.9	-22.9	-0.8		0.0	0.2	0.0	6.7	26.9	
Cooling Tower M 513	CNEL	95.7		175.7	-55.9	3.8	-22.9	-0.8		0.0	0.2	0.0	6.7	26.7	
Cooling Tower M 514	CNEL	95.7		174.5	-55.8	3.9	-22.7	-0.8		0.0	0.1	0.0	6.7	27.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	188.4	-56.5	2.8	-18.9	-0.4		-1.6	0.0	0.0	6.7	27.9	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	146.8	-54.3	3.0	-15.4	0.0		0.0	0.1	0.0	6.7	35.3	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	144.3	-54.2	3.1	-14.0	0.0		0.0	0.0	0.0	6.7	34.6	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	146.2	-54.3	2.8	-12.3	0.0		0.0	0.0	0.0	6.7	36.3	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	148.0	-54.4	3.0	-14.2	0.0		0.0	0.1	0.0	6.7	34.3	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	145.5	-54.2	3.0	-12.1	0.0		0.0	0.0	0.0	6.7	38.7	
FD Motor	CNEL	103.3	2	147.4	-54.4	3.1	-23.7	-1.4		0.0	2.2	0.0	6.7	35.7	
Feed Compressor -B Motor	CNEL	103.8	5	204.1	-57.2	3.2	-4.5	-2.2		0.0	0.0	0.0	6.7	49.7	
Feed Compressor-A Compressor	CNEL	104.0	5	195.3	-56.8	3.3	-4.8	-1.4		0.0	0.0	0.0	6.7	51.0	
Feed Compressor-A Motor	CNEL	103.8	6	200.4	-57.0	3.1	-4.5	-2.2		0.0	0.0	0.0	6.7	49.8	
Feed Compressor-B Compressor	CNEL	104.0	7	198.4	-56.9	3.3	-4.8	-1.4		0.0	0.0	0.0	6.7	50.9	
H2S Compressor 18-C-271	CNEL	105.3	6	170.0	-55.6	3.4	-18.1	-0.6	-0.27	0.0	0.2	0.0	6.7	41.1	
Heater # 5-Heater	CNEL	91.1	13	379.3	-62.6	4.8	-22.4	-1.1	-1.04	0.0	0.8	0.0	6.7	19.3	
Heater # 5-Heater	CNEL	91.1	13	377.2	-62.5	4.8	-22.3	-1.1	-0.42	0.0	0.0	0.0	6.7	19.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Heater # 5-Heater	CNEL	91.1	13	381.4	-62.6	4.8	-22.4	-1.1	-1.23	0.0	2.1	0.0	6.7	20.3
Hydro Heater H-402	CNEL	98.1		187.7	-56.5	3.9	-14.7	-0.3	-0.53	0.0	0.0	0.0	6.7	36.6
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	162.0	-55.2	3.4	-15.5	0.0		0.0	0.0	0.0	6.7	26.3
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	164.0	-55.3	3.4	-15.3	0.0		0.0	0.0	0.0	6.7	26.7
ID Fan-ID Fan - North	CNEL	92.2	8	160.9	-55.1	3.3	-11.8	0.0		0.0	0.0	0.0	6.7	35.3
ID Fan-ID Fan - North 2	CNEL	91.4	7	163.0	-55.2	3.4	-13.0	0.0		0.0	0.0	0.0	6.7	33.1
ID Fan-ID Fan - South	CNEL	92.3	9	163.6	-55.3	3.4	-15.7	0.0		0.0	0.0	0.0	6.7	31.4
ID Fan-ID Fan - South 2	CNEL	91.4	7	164.3	-55.3	3.4	-15.2	0.0		0.0	0.0	0.0	6.7	30.9
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	162.6	-55.2	2.9	-12.2	0.0		0.0	0.0	0.0	6.7	36.1
Motor & Pump P 56A/B	CNEL	93.7		179.1	-56.1	3.9	-19.4	-1.0	-0.23	0.0	0.2	0.0	6.7	27.7
Motor & Pump P 120/121	CNEL	96.2	2	155.1	-54.8	3.7	-17.1	-0.5	-0.01	0.0	0.6	0.0	6.7	34.7
Motor & Pump P 211/212	CNEL	93.7		210.8	-57.5	4.3	-19.1	-1.1	-0.93	0.0	0.3	0.0	6.7	26.4
Motor & Pump P 215/214	CNEL	94.6		207.0	-57.3	4.3	-21.0	-1.1	-0.91	0.0	1.4	0.0	6.7	26.6
Motor & Pump P 216	CNEL	98.3		214.6	-57.6	4.2	-20.7	-1.1	-1.04	0.0	0.5	0.0	6.7	29.1
Motor & Pump P 217/218	CNEL	93.7		209.5	-57.4	4.6	-18.9	-1.1	-0.93	0.0	0.9	0.0	6.7	27.5
Motor & Pump P 300	CNEL	97.1	2	163.1	-55.2	3.9	-10.8	-0.5		0.0	0.6	0.0	6.7	41.7
Motor & Pump P 301	CNEL	102.1	2	164.2	-55.3	3.9	-11.0	-0.6		0.0	0.9	0.0	6.7	46.7
Motor & Pump P 302	CNEL	97.1	2	162.1	-55.2	3.9	-10.2	-0.5		0.0	0.2	0.0	6.7	41.9
Motor & Pump P 303	CNEL	97.1	2	161.3	-55.1	3.8	-10.5	-0.5		0.0	0.7	0.0	6.7	42.1
Motor & Pump P 305	CNEL	97.5	2	160.4	-55.1	3.8	-15.3	-0.5		0.0	2.0	0.0	6.7	39.0
Motor & Pump P 306	CNEL	112.6	4	155.2	-54.8	3.4	-18.3	-0.6		0.0	0.2	0.0	6.7	49.3
Motor & Pump P 307	CNEL	102.1	2	167.2	-55.5	3.9	-6.0	-0.6		0.0	1.2	0.0	6.7	51.8
Motor & Pump P 309	CNEL	97.5	2	159.6	-55.1	3.8	-17.7	-0.5		0.0	3.0	0.0	6.7	37.7
Motor & Pump P 312	CNEL	101.5	2	181.7	-56.2	4.3	-21.2	-0.7	-0.30	0.0	1.0	0.0	6.7	35.1
Motor & Pump P 313	CNEL	101.5	2	182.9	-56.2	4.3	-20.7	-0.7	-0.30	0.0	0.8	0.0	6.7	35.4
Motor & Pump P 315	CNEL	102.9	2	187.7	-56.5	4.2	-18.1	-0.6	-0.31	0.0	0.1	0.0	6.7	38.4
Motor & Pump P 316	CNEL	102.9	2	189.1	-56.5	4.2	-16.2	-0.6	-0.32	0.0	0.1	0.0	6.7	40.2
Motor & Pump P 317	CNEL	102.9	2	190.5	-56.6	4.1	-15.9	-0.6	-0.32	0.0	0.1	0.0	6.7	40.4
Motor & Pump P 318	CNEL	100.2	1	185.9	-56.4	4.4	-18.1	-0.6	-0.31	0.0	0.2	0.0	6.7	36.0
Motor & Pump P 319	CNEL	100.2	1	184.8	-56.3	4.4	-18.0	-0.6	-0.31	0.0	0.2	0.0	6.7	36.1
Motor & Pump P 327	CNEL	111.2	3	151.7	-54.6	3.7	-16.6	-0.9		0.0	2.6	0.0	6.7	52.2
Motor & Pump P 328	CNEL	109.9	5	158.4	-55.0	3.5	-13.9	-0.5		0.0	1.4	0.0	6.7	52.1
Motor & Pump P 329	CNEL	110.2	5	156.8	-54.9	3.5	-14.4	-0.6		0.0	1.1	0.0	6.7	51.6
Motor & Pump P 451	CNEL	93.7		193.0	-56.7	4.1	-19.3	-0.9	-0.57	0.0	0.0	0.0	6.7	27.0
Motor & Pump P 453	CNEL	93.7		201.9	-57.1	4.1	-21.2	-1.1	-0.39	0.0	0.0	0.0	6.7	24.8
Motor & Pump P 454	CNEL	93.7		193.4	-56.7	4.1	-20.4	-1.1		0.0	0.0	0.0	6.7	26.2
Motor & Pump P 457	CNEL	93.7		203.2	-57.2	4.2	-21.2	-1.1	-0.37	0.0	0.0	0.0	6.7	24.7
Motor & Pump P 458	CNEL	93.7		192.5	-56.7	4.1	-19.2	-0.9	-0.58	0.0	0.0	0.0	6.7	27.0
Motor & Pump P 459	CNEL	93.7		192.6	-56.7	4.1	-20.8	-1.2		0.0	0.0	0.0	6.7	25.7
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		160.9	-55.1	3.8	-20.1	-0.8	-0.55	0.0	1.4	0.0	6.7	31.5
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		159.5	-55.0	3.8	-20.0	-0.8	-0.56	0.0	0.4	0.0	6.7	30.6
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		126.6	-53.0	3.3	-20.5	-0.8	-0.10	0.0	1.6	0.0	6.7	32.6
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		125.6	-53.0	3.3	-22.9	-1.0	-0.06	0.0	3.0	0.0	6.7	31.5
Motor & Pump P 1601 A	CNEL	96.3	2	147.8	-54.4	3.3	-21.8	-1.0		0.0	2.5	0.0	6.7	31.6
Motor & Pump P 1601 B	CNEL	96.3	2	147.2	-54.4	3.2	-21.2	-0.9		0.0	2.2	0.0	6.7	32.1
Motor & Pump P 1602 A	CNEL	96.3	2	147.0	-54.3	3.2	-19.4	-0.8		0.0	1.1	0.0	6.7	32.8
Motor & Pump P 1602 B	CNEL	96.5	2	146.5	-54.3	3.2	-15.5	-0.7		0.0	0.3	0.0	6.7	36.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	155.8	-54.8	3.9	-21.7	-1.0	-0.35	0.0	1.2	0.0	6.7	30.5
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	151.6	-54.6	3.8	-20.4	-0.8	-0.26	0.0	0.8	0.0	6.7	31.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	149.4	-54.5	3.8	-20.4	-0.8	-0.30	0.0	0.3	0.0	6.7	31.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	157.9	-55.0	3.8	-20.0	-0.8	-0.56	0.0	0.3	0.0	6.7	31.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	156.4	-54.9	3.8	-20.3	-0.8	-0.55	0.0	0.4	0.0	6.7	31.0
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	141.6	-54.0	3.7	-22.2	-1.0	-0.04	0.0	1.2	0.0	6.7	30.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	142.7	-54.1	3.7	-20.6	-0.8	-0.18	0.0	0.4	0.0	6.7	31.4
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	144.8	-54.2	3.7	-20.6	-0.8	-0.33	0.0	0.1	0.0	6.7	30.9
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	143.9	-54.2	3.7	-20.5	-0.8	-0.24	0.0	1.0	0.0	6.7	32.0
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	127.2	-53.1	2.8	-19.0	-0.5		0.0	1.5	0.0	6.7	42.6
P-2 A/B	CNEL	98.5		400.0	-63.0	5.3	-21.8	-1.3	-0.49	0.0	0.0	0.0	6.7	23.8
P-50 A/B	CNEL	98.1		359.5	-62.1	5.2	-24.5	-1.6	-0.42	0.0	0.0	0.0	6.7	21.4
P-51 A/B	CNEL	98.1		362.9	-62.2	5.2	-24.2	-1.5	-0.66	0.0	0.0	0.0	6.7	21.4
P-060 A/B	CNEL	98.1		351.0	-61.9	5.2	-20.2	-1.1	-0.37	0.0	0.0	0.0	6.7	26.5
P-63	CNEL	98.5		389.0	-62.8	5.2	-19.3	-1.1	-1.31	0.0	1.0	0.0	6.7	26.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-70 A/B	CNEL	98.1		354.7	-62.0	5.2	-24.5	-1.5	-0.46	0.0	0.0	0.0	6.7	21.5
P-73 A/B	CNEL	98.5		397.2	-63.0	5.2	-24.0	-1.7		0.0	0.0	0.0	6.7	21.8
P-251 A/B	CNEL	98.2		279.9	-59.9	5.0	-5.4	-1.2	-0.45	0.0	0.0	0.0	6.7	42.9
P-252 A/B	CNEL	98.2		270.4	-59.6	5.0	-5.9	-1.2	-0.20	0.0	0.0	0.0	6.7	43.0
P-253	CNEL	98.2		272.6	-59.7	5.0	-4.7	-1.3	-0.20	0.0	0.0	0.0	6.7	43.9
P-254 A/B	CNEL	98.2		282.9	-60.0	5.0	-4.6	-1.4	-0.45	0.0	0.0	0.0	6.7	43.5
P-255 A/B	CNEL	98.2		281.9	-60.0	5.0	-5.3	-1.3	-0.45	0.0	0.0	0.0	6.7	42.8
P-255 A/B	CNEL	98.2		278.0	-59.9	5.0	-5.6	-1.2	-0.44	0.0	0.0	0.0	6.7	42.8
P-256 A/B	CNEL	98.2		280.7	-60.0	5.0	-5.3	-1.2	-0.45	0.0	0.0	0.0	6.7	43.0
P-259 A/B	CNEL	98.2		278.9	-59.9	5.0	-5.5	-1.2	-0.44	0.0	0.0	0.0	6.7	42.8
P-260	CNEL	99.1		265.5	-59.5	5.0	-6.1	-1.1	-0.20	0.0	0.0	0.0	6.7	43.8
P-261 A/B	CNEL	98.0		261.7	-59.3	5.0	-23.1	-1.0	-0.21	0.0	0.0	0.0	6.7	26.0
P-262 A/B	CNEL	99.1		263.8	-59.4	5.0	-15.7	-0.8	-0.21	0.0	0.1	0.0	6.7	34.6
P-263 A/B	CNEL	99.4		264.4	-59.4	5.0	-9.5	-0.9	-0.20	0.0	0.0	0.0	6.7	41.0
P-270 A/B	CNEL	98.5		296.6	-60.4	5.1	-22.8	-1.1	-0.24	0.0	0.0	0.0	6.7	25.7
P-271 A/B	CNEL	98.2		286.0	-60.1	5.0	-21.5	-0.9	-0.47	0.0	0.0	0.0	6.7	26.9
P-272 A/B	CNEL	98.2		284.4	-60.1	5.0	-4.6	-1.4	-0.45	0.0	0.0	0.0	6.7	43.4
P-273 A/B	CNEL	98.5		295.2	-60.4	5.1	-23.7	-1.2	-0.04	0.0	0.0	0.0	6.7	25.0
P-275 A/B/C	CNEL	98.2		276.1	-59.8	5.0	-22.7	-1.0	-0.21	0.0	0.1	0.0	6.7	26.2
P-305	CNEL	99.3		355.2	-62.0	5.2	-23.6	-1.4	-0.53	0.0	0.0	0.0	6.7	23.7
P-306	CNEL	100.8		359.3	-62.1	5.2	-22.0	-1.2	-1.48	0.0	0.0	0.0	6.7	25.9
P-309	CNEL	99.3		356.1	-62.0	5.2	-23.6	-1.4	-0.79	0.0	0.0	0.0	6.7	23.4
P-328	CNEL	100.8		362.0	-62.2	5.2	-22.0	-1.2	-1.51	0.0	1.3	0.0	6.7	27.1
P-329	CNEL	100.8		360.6	-62.1	5.2	-22.0	-1.2	-1.50	0.0	0.0	0.0	6.7	25.9
P-353	CNEL	98.5		343.2	-61.7	4.9	-23.1	-1.3	-1.07	0.0	0.0	0.0	6.7	23.0
P-358 A/B	CNEL	99.4		330.6	-61.4	5.1	-19.8	-1.0	-0.76	0.0	0.0	0.0	6.7	28.3
P-359 A/B	CNEL	99.4		334.8	-61.5	5.2	-22.8	-1.2	-0.88	0.0	0.0	0.0	6.7	24.8
P-360 A/B	CNEL	99.4		343.0	-61.7	5.2	-23.0	-1.2	-1.00	0.0	0.0	0.0	6.7	24.3
P-361A	CNEL	98.1		334.0	-61.5	4.9	-19.9	-1.0	-0.28	0.0	0.0	0.0	6.7	27.0
P-371 A/B	CNEL	98.0		183.0	-56.2	4.1	-18.6	-0.6		0.0	0.0	0.0	6.7	33.4
P-373 A/B	CNEL	98.0		179.2	-56.1	4.1	-22.1	-0.7		0.0	0.6	0.0	6.7	30.5
P-374 A/B	CNEL	98.0		179.5	-56.1	4.1	-22.6	-0.7		0.0	0.8	0.0	6.7	30.0
P-375 A/B	CNEL	98.0		180.6	-56.1	4.1	-21.2	-0.6		0.0	0.0	0.0	6.7	30.7
P-376	CNEL	98.0		179.9	-56.1	4.1	-22.5	-0.7		0.0	0.7	0.0	6.7	30.0
P-376 A/B	CNEL	98.0		178.8	-56.0	4.1	-22.1	-0.7		0.0	1.5	0.0	6.7	31.3
P-377	CNEL	98.0		180.1	-56.1	4.1	-22.4	-0.7		0.0	0.6	0.0	6.7	30.1
P-1101 A	CNEL	98.9		379.0	-62.6	5.0	-22.6	-1.4	-0.39	0.0	0.8	0.0	6.7	24.5
P-1103	CNEL	98.9		378.1	-62.5	5.0	-22.7	-1.4	-0.44	0.0	0.9	0.0	6.7	24.3
P-1105 A/B/C	CNEL	98.9		382.4	-62.6	5.0	-22.9	-1.4		0.0	1.2	0.0	6.7	24.8
P-1800	CNEL	98.9		431.8	-63.7	5.3	-21.5	-1.3	-0.46	0.0	2.8	0.0	6.7	26.7
P-1801	CNEL	98.9		461.3	-64.3	5.3	-24.9	-2.1		0.0	4.3	0.0	6.7	24.0
P-1802	CNEL	98.9		459.5	-64.2	5.3	-25.0	-2.1		0.0	2.9	0.0	6.7	22.5
P-1803	CNEL	99.1		332.2	-61.4	5.1	-24.2	-1.5		0.0	3.6	0.0	6.7	27.3
P-1804	CNEL	99.1		352.5	-61.9	5.2	-24.0	-1.4		0.0	1.5	0.0	6.7	25.2
P-1805	CNEL	99.1		354.6	-62.0	5.2	-23.7	-1.4		0.0	1.2	0.0	6.7	25.1
P-1806	CNEL	99.1		316.9	-61.0	5.1	-20.3	-1.0		0.0	0.0	0.0	6.7	28.5
P-1809 A	CNEL	98.9		435.5	-63.8	5.3	-21.3	-1.3		0.0	1.9	0.0	6.7	26.3
P-1810 A/B/C	CNEL	99.0		347.5	-61.8	5.2	-24.9	-1.6		0.0	0.7	0.0	6.7	23.3
P-1811 A/B	CNEL	99.1		321.2	-61.1	5.1	-20.0	-1.0		0.0	0.0	0.0	6.7	28.7
P-1811 A/B	CNEL	99.1		357.2	-62.0	5.2	-24.5	-1.6		0.0	0.0	0.0	6.7	22.9
P-1847 A/B	CNEL	99.4		278.0	-59.9	5.0	-22.2	-1.0		0.0	0.0	0.0	6.7	28.0
P-1849 A/B	CNEL	99.4		283.0	-60.0	5.0	-22.2	-1.0		0.0	0.0	0.0	6.7	27.9
P-1853	CNEL	99.1		325.4	-61.2	5.1	-4.7	-1.6	-0.76	0.0	0.0	0.0	6.7	42.6
Piping Furnace Tanks	CNEL	87.1	72	153.6	-54.7	2.8	-4.7	-5.5		0.0	0.6	0.0	6.7	32.3
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	163.8	-55.3	2.9	-2.1	-5.8		0.0	0.3	0.0	6.7	45.1
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	135.8	-53.6	2.9	-14.9	-1.1		0.0	0.2	0.0	6.7	54.8
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	137.4	-53.8	2.9	-16.6	-3.4		0.0	0.5	0.0	6.7	51.5
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	362.9	-62.2	3.6	-22.3	-1.3		0.0	0.8	0.0	6.7	35.8
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	331.8	-61.4	3.5	-5.1	-1.5		0.0	0.0	0.0	6.7	53.3
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	314.7	-61.0	3.4	-8.5	-1.4		0.0	0.0	0.0	6.7	43.4
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	356.1	-62.0	3.5	-23.4	-1.4		0.0	0.2	0.0	6.7	34.7
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	325.5	-61.2	3.5	-24.0	-1.4		0.0	0.3	0.0	6.7	27.8
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	315.8	-61.0	3.4	-6.5	-1.4		0.0	0.8	0.0	6.7	45.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	316.6	-61.0	3.5	-12.8	-1.1		0.0	0.0	0.0	6.7	42.0
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	333.8	-61.5	3.5	-20.7	-1.2		0.0	1.8	0.0	6.7	34.7
Pre-Treat Train-Roof 01	CNEL	113.1	2037	341.7	-61.7	2.8	-6.5	-1.6		0.0	0.0	0.0	6.7	52.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
PSA Pipe 3" Lagging	CNEL	80.6	11	137.1	-53.7	2.8	-15.5	-0.9		0.0	0.2	0.0	6.7	20.2	
PSA Skid Additional Piping w NC	CNEL	116.6	57	135.7	-53.6	2.9	-16.2	-1.1		0.0	0.2	0.0	6.7	55.5	
Reformer-Burner Reformer East	CNEL	97.3	269	141.1	-54.0	2.8	-6.8	-1.1		0.0	0.0	0.0	6.7	47.9	
Reformer-Burner Reformer North	CNEL	95.9	192	143.8	-54.1	2.8	-0.4	-1.4		0.0	0.0	0.0	6.7	49.4	
Reformer-Burner Reformer South	CNEL	95.8	191	150.9	-54.6	2.8	-24.2	-1.2		0.0	2.0	0.0	6.7	30.4	
Reformer-Burner Reformer West	CNEL	97.3	268	153.6	-54.7	2.8	-20.8	-0.8		0.0	0.2	0.0	6.7	33.6	
RFG A from battery to process	CNEL	99.4	87	164.8	-55.3	2.9	-1.6	-5.9		0.0	0.3	0.0	6.7	46.4	
RFG A from battery to process w NC	CNEL	115.2	42	134.6	-53.6	2.9	-17.7	-3.2		0.0	0.5	0.0	6.7	50.8	
Stack Noise	CNEL	108.4		167.6	-55.5	2.7	-4.3	-1.1		-6.5	0.0	0.0	6.7	50.5	
Steam Turbine-Facade 01	CNEL	99.6	29	153.9	-54.7	3.4	-24.1	-3.1		0.0	0.1	0.0	6.7	27.8	
Steam Turbine-Facade 02	CNEL	96.2	13	151.9	-54.6	3.3	-21.1	-1.7		0.0	0.1	0.0	6.7	28.9	
Steam Turbine-Facade 03	CNEL	99.6	29	150.2	-54.5	3.3	-24.0	-2.9		0.0	0.1	0.0	6.7	28.2	
Steam Turbine-Facade 04	CNEL	96.2	13	152.3	-54.6	3.3	-24.3	-3.3		0.0	0.3	0.0	6.7	24.3	
Steam Turbine-Roof 01	CNEL	99.7	30	152.1	-54.6	2.9	-21.9	-2.2		0.0	0.0	0.0	6.7	30.6	
Tank Farm Pump 1	CNEL	99.0	3	254.4	-59.1	4.5	-22.9	-1.4		0.0	0.5	0.0	6.7	27.3	
Tank Farm Pump 2	CNEL	99.0	3	271.1	-59.7	4.6	-15.2	-1.2		0.0	0.0	0.0	6.7	34.2	
Tank Farm Pump 3	CNEL	99.0	3	276.0	-59.8	4.6	-14.5	-1.2		0.0	0.0	0.0	6.7	34.8	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	315.1	-61.0	3.8	-7.4	-3.2	-0.07	0.0	0.1	-13.8	0.0	30.8	
XF-1502 Splitter Area 1	CNEL	104.5		147.1	-54.3	2.8	-19.9	-0.6	0.00	-2.7	0.0	0.0	6.7	36.4	
XF-1502 Splitter Area 2	CNEL	104.5		150.4	-54.5	2.8	-20.6	-0.6	-0.04	-2.6	0.0	0.0	6.7	35.5	
XF-1504 Splitter Area 1	CNEL	104.5		145.0	-54.2	2.8	-20.7	-0.6	-0.04	-2.6	0.0	0.0	6.7	35.9	
XF-1504 Splitter Area 2	CNEL	104.5		148.3	-54.4	2.8	-20.7	-0.6	-0.04	-2.5	0.0	0.0	6.7	35.7	
XF 251, 250, 271, 270	CNEL	101.1	128	281.0	-60.0	2.8	-6.0	-0.9		-2.5	0.0	0.0	6.7	41.3	
XF 260, 261A, 261 B	CNEL	99.9	97	268.6	-59.6	2.8	-4.2	-0.8	0.00	-2.6	0.0	0.0	6.7	42.2	
XF 304, XF 321	CNEL	110.5	56	169.7	-55.6	2.6	-6.3	-0.4	-0.09	-2.5	0.1	0.0	6.7	55.0	
XF 313, XF 314	CNEL	113.0	18	153.7	-54.7	2.6	-8.9	-0.4		-3.2	0.1	0.0	6.7	55.1	
XF 335-1, XF 335-2	CNEL	113.4	54	162.7	-55.2	2.6	-7.2	-0.6	-0.08	-2.7	0.1	0.0	6.7	56.9	
XF 353A/B	CNEL	95.4	35	341.5	-61.7	3.0	-13.3	-0.5	0.00	-1.3	0.0	0.0	6.7	28.4	
XF 353A/B	CNEL	95.4	35	316.8	-61.0	2.8	-13.5	-0.4		-1.3	0.0	0.0	6.7	28.7	
XF 354A/B	CNEL	95.4	35	348.7	-61.8	3.1	-13.6	-0.5	0.00	-1.5	0.0	0.0	6.7	27.7	
XF 503	CNEL	113.0	21	192.1	-56.7	2.8	-17.1	-0.8	-0.53	-2.9	0.1	0.0	6.7	44.6	
XF - 1601	CNEL	96.6		148.6	-54.4	2.8	-15.4	-0.2		-0.8	0.0	0.0	6.7	35.2	
XF - 1602	CNEL	96.6		146.6	-54.3	2.8	-11.8	-0.2		-1.1	0.0	0.0	6.7	38.6	
XF Module 1510	CNEL	108.3		156.4	-54.9	2.8	-18.1	-0.5	-0.22	-2.5	0.0	0.0	6.7	41.6	
XF Module 1519	CNEL	109.0		151.8	-54.6	2.8	-18.3	-0.5	-0.19	-2.5	0.0	0.0	6.7	42.4	
xxxx xxxx xxxx xxxx	CNEL		606								10.9			35.7	
xxxx xxxx xxxx xxxx	CNEL		606								10.7			35.5	
xxxx xxxx xxxx xxxx	CNEL		917								2.0			27.4	
xxxx xxxx xxxx xxxx	CNEL		917								2.2			27.6	
xxxx xxxx xxxx xxxx	CNEL		608								2.8			38.0	
xxxx xxxx xxxx xxxx	CNEL		608								3.0			38.0	
xxxx xxxx xxxx xxxx	CNEL		228								3.0			20.3	
xxxx xxxx xxxx xxxx	CNEL		520								6.1			45.0	
xxxx xxxx xxxx xxxx	CNEL		1341								4.3			47.0	
xxxx xxxx xxxx xxxx	CNEL		450								13.6			23.8	
Receiver MH-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 59.5 dB(A)		Ld 7-19 dB(A)		Leq,N 59.4 dB(A)		Le 19-22 dB(A)		CNEL 66.1 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	148.3	-54.4	3.1	-23.5	-1.1		0.0	3.1	0.0	6.7	38.2	
18-1855 A/B	CNEL	98.8		228.6	-58.2	4.5	-24.2	-1.1		0.0	0.0	0.0	6.7	26.6	
18-1856 A/B	CNEL	98.8		230.6	-58.2	4.5	-24.2	-1.1		0.0	0.0	0.0	6.7	26.5	
18-1857 A/B	CNEL	98.8		226.8	-58.1	4.5	-24.2	-1.1		0.0	0.0	0.0	6.7	26.7	
18-1858 A/B	CNEL	98.8		225.7	-58.1	4.2	-24.0	-1.0		0.0	0.0	0.0	6.7	26.6	
18-PK 1802 Air Compressor Package	CNEL	103.1		244.6	-58.8	4.8	-21.2	-0.5		0.0	0.0	0.0	6.7	34.1	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	281.1	-60.0	4.6	-12.6	-2.0	-0.09	0.0	0.0	-4.8	1.0	35.2	
Air Compressor C 1	CNEL	110.0	5	167.5	-55.5	3.9	-21.3	-0.5		0.0	1.7	0.0	6.7	45.1	
Air Compressor Pump	CNEL	100.3		231.0	-58.3	4.4	-23.8	-2.4		0.0	0.6	0.0	6.7	27.5	
Blower F 401	CNEL	113.0		238.4	-58.5	4.0	-19.7	-0.3	-0.35	0.0	0.0	0.0	6.7	44.8	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	374.6	-62.5	4.8	-21.5	-1.0	-0.81	0.0	0.5	0.0	6.7	24.7	
Boiler Feed Water Pump A	CNEL	97.1	3	207.4	-57.3	4.2	-23.3	-1.0		0.0	0.0	0.0	6.7	26.4	
Boiler Feed Water Pump B	CNEL	97.1	3	210.6	-57.5	4.2	-23.3	-1.0		0.0	0.0	0.0	6.7	26.3	
C370 A Motor	CNEL	103.6	3	186.7	-56.4	2.9	-7.0	-1.0		0.0	0.1	0.0	6.7	48.9	
C370 B Motor	CNEL	108.6	3	186.6	-56.4	2.9	-6.1	-0.9		0.0	0.2	0.0	6.7	55.0	
C370A	CNEL	103.8	5	182.3	-56.2	3.0	-8.8	-0.9		0.0	0.0	0.0	6.7	47.6	
C370B	CNEL	103.8	5	182.2	-56.2	3.0	-7.5	-0.8		0.0	0.1	0.0	6.7	49.0	
C-270 A	CNEL	106.3	6	308.7	-60.8	4.2	-20.1	-1.0	-0.40	0.0	0.0	0.0	6.7	35.1	
C-270 B	CNEL	106.3	6	307.1	-60.7	4.2	-20.0	-1.0	-0.13	0.0	0.1	0.0	6.7	35.4	
C-270 C	CNEL	106.3	6	305.6	-60.7	4.2	-20.0	-1.0		0.0	0.5	0.0	6.7	36.0	
C-301 Compressor	CNEL	106.8	3	291.8	-60.3	4.1	-19.3	-0.9	-0.12	0.0	0.1	0.0	6.7	37.1	
C-301 Motor	CNEL	106.8	4	290.2	-60.2	4.1	-21.1	-1.6	-0.15	0.0	0.0	0.0	6.7	34.5	
C-351 Compressor	CNEL	106.8	4	309.6	-60.8	4.2	-21.0	-1.1	-0.51	0.0	0.1	0.0	6.7	34.4	
C-351 Motor	CNEL	106.8	5	314.0	-60.9	4.0	-21.3	-1.7	-0.72	0.0	0.0	0.0	6.7	32.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	281.8	-60.0	4.7	-11.9	-0.6	-0.16	0.0	0.0	-35.6	0.0	31.2	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	225.4	-58.1	3.6	-19.1	-0.6	-0.55	2.5	0.0	0.0	6.7	39.3
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	218.9	-57.8	3.5	-13.3	-0.6	-0.51	0.0	0.0	0.0	6.7	38.5
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	225.7	-58.1	3.5	-13.7	-0.5	-0.35	2.6	0.0	0.0	6.7	46.7
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	234.2	-58.4	3.6	-21.6	-0.7	-0.24	-7.7	0.2	0.0	6.7	32.5
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	222.2	-57.9	3.5	-21.5	-0.7	-0.49	-7.7	0.0	0.0	6.7	25.8
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	238.1	-58.5	3.6	-21.6	-0.9	-0.34	-7.8	0.2	0.0	6.7	21.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	177.2	-56.0	3.3	-13.5	-0.5		3.2	0.4	0.0	6.7	41.4
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	183.8	-56.3	3.3	-21.7	-0.8	-0.07	-7.1	0.0	0.0	6.7	21.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	167.3	-55.5	3.1	-15.9	-0.4		3.9	0.0	0.0	6.7	42.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	175.0	-55.9	3.2	-19.5	-0.6		-6.5	0.0	0.0	6.7	28.1
Cooling Tower M 512	CNEL	95.7		186.1	-56.4	4.0	-23.4	-0.9		0.0	0.0	0.0	6.7	25.8
Cooling Tower M 513	CNEL	95.7		186.9	-56.4	4.0	-23.2	-0.9		0.0	0.0	0.0	6.7	25.9
Cooling Tower M 514	CNEL	95.7		185.4	-56.4	4.0	-23.6	-0.9		0.0	0.0	0.0	6.7	25.5
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	179.5	-56.1	2.8	-18.7	-0.3		-1.4	0.0	0.0	6.7	28.7
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	136.3	-53.7	3.0	-15.9	0.0		0.0	0.1	0.0	6.7	35.6
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	133.9	-53.5	3.0	-15.2	0.0		0.0	0.1	0.0	6.7	34.1
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	135.9	-53.7	2.8	-13.1	0.0		0.0	0.0	0.0	6.7	36.1
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	137.9	-53.8	2.9	-15.8	0.0		0.0	0.1	0.0	6.7	33.3
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	135.4	-53.6	2.9	-13.5	0.0		0.0	0.0	0.0	6.7	37.7
FD Motor	CNEL	103.3	2	136.7	-53.7	2.9	-24.2	-1.4		0.0	6.6	0.0	6.7	40.1
Feed Compressor -B Motor	CNEL	103.8	5	199.7	-57.0	3.1	-14.9	-1.1		0.0	0.0	0.0	6.7	40.6
Feed Compressor-A Compressor	CNEL	104.0	5	192.4	-56.7	3.3	-7.2	-1.0		0.0	0.0	0.0	6.7	49.1
Feed Compressor-A Motor	CNEL	103.8	6	197.6	-56.9	3.1	-7.5	-1.5		0.0	0.0	0.0	6.7	47.7
Feed Compressor-B Compressor	CNEL	104.0	7	193.8	-56.7	3.3	-14.1	-0.7		0.0	0.0	0.0	6.7	42.4
H2S Compressor 18-C-271	CNEL	105.3	6	187.5	-56.5	3.6	-20.8	-0.7	-0.25	0.0	0.3	0.0	6.7	37.7
Heater # 5-Heater	CNEL	91.1	13	370.5	-62.4	4.8	-22.7	-1.1	-0.87	0.0	0.6	0.0	6.7	19.2
Heater # 5-Heater	CNEL	91.1	13	368.6	-62.3	4.8	-22.7	-1.1	-1.51	0.0	0.0	0.0	6.7	17.9
Heater # 5-Heater	CNEL	91.1	13	372.3	-62.4	4.8	-22.8	-1.1	-0.95	0.0	1.6	0.0	6.7	19.9
Hydro Heater H-402	CNEL	98.1		201.3	-57.1	4.0	-14.2	-0.4	-0.53	0.0	0.0	0.0	6.7	36.6
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	150.5	-54.5	3.3	-15.3	0.0		0.0	0.0	0.0	6.7	27.1
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	152.7	-54.7	3.3	-15.6	0.0		0.0	0.0	0.0	6.7	27.0
ID Fan-ID Fan - North	CNEL	92.2	8	149.5	-54.5	3.3	-12.7	0.0		0.0	0.0	0.0	6.7	35.0
ID Fan-ID Fan - North 2	CNEL	91.4	7	151.4	-54.6	3.3	-13.7	0.0		0.0	0.0	0.0	6.7	33.0
ID Fan-ID Fan - South	CNEL	92.3	9	152.5	-54.7	3.3	-16.0	0.0		0.0	0.0	0.0	6.7	31.6
ID Fan-ID Fan - South 2	CNEL	91.4	7	152.8	-54.7	3.3	-15.5	0.0		0.0	0.0	0.0	6.7	31.1
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	151.3	-54.6	2.9	-12.3	0.0		0.0	0.0	0.0	6.7	36.6
Motor & Pump P 56A/B	CNEL	93.7		194.3	-56.8	4.1	-20.1	-1.0	-0.48	0.0	0.3	0.0	6.7	26.3
Motor & Pump P 120/121	CNEL	96.2	2	174.2	-55.8	4.0	-19.8	-0.6	-0.07	0.0	0.2	0.0	6.7	30.7
Motor & Pump P 211/212	CNEL	93.7		225.9	-58.1	4.4	-19.9	-1.1	-0.90	0.0	1.0	0.0	6.7	25.7
Motor & Pump P 215/214	CNEL	94.6		222.4	-57.9	4.4	-19.7	-1.1	-0.87	0.0	0.8	0.0	6.7	26.9
Motor & Pump P 216	CNEL	98.3		230.1	-58.2	4.3	-19.6	-1.1	-1.03	0.0	0.1	0.0	6.7	29.5
Motor & Pump P 217/218	CNEL	93.7		224.7	-58.0	4.7	-20.0	-1.1	-0.93	0.0	0.4	0.0	6.7	25.3
Motor & Pump P 300	CNEL	97.1	2	182.9	-56.2	4.1	-19.9	-0.7		0.0	1.4	0.0	6.7	32.4
Motor & Pump P 301	CNEL	102.1	2	183.8	-56.3	4.1	-17.6	-0.6		0.0	0.9	0.0	6.7	39.3
Motor & Pump P 302	CNEL	97.1	2	181.9	-56.2	4.1	-19.1	-0.6		0.0	0.9	0.0	6.7	32.8
Motor & Pump P 303	CNEL	97.1	2	181.2	-56.2	4.0	-18.0	-0.6		0.0	0.8	0.0	6.7	33.8
Motor & Pump P 305	CNEL	97.5	2	180.4	-56.1	4.0	-21.6	-0.7		0.0	1.8	0.0	6.7	31.4
Motor & Pump P 306	CNEL	112.6	4	175.8	-55.9	3.6	-17.6	-0.7		0.0	0.2	0.0	6.7	48.9
Motor & Pump P 307	CNEL	102.1	2	186.5	-56.4	4.1	-18.6	-0.6		0.0	1.2	0.0	6.7	38.5
Motor & Pump P 309	CNEL	97.5	2	179.7	-56.1	4.0	-21.6	-0.7		0.0	0.7	0.0	6.7	30.5
Motor & Pump P 312	CNEL	101.5	2	199.6	-57.0	4.4	-15.3	-0.6	-0.28	0.0	0.2	0.0	6.7	39.5
Motor & Pump P 313	CNEL	101.5	2	200.7	-57.0	4.4	-15.3	-0.7	-0.29	0.0	0.2	0.0	6.7	39.5
Motor & Pump P 315	CNEL	102.9	2	205.1	-57.2	4.3	-21.1	-0.7	-0.29	0.0	0.1	0.0	6.7	34.6
Motor & Pump P 316	CNEL	102.9	2	206.4	-57.3	4.3	-21.2	-0.7	-0.29	0.0	0.1	0.0	6.7	34.5
Motor & Pump P 317	CNEL	102.9	2	207.7	-57.3	4.3	-19.2	-0.7	-0.30	0.0	0.1	0.0	6.7	36.4
Motor & Pump P 318	CNEL	100.2	1	203.4	-57.2	4.5	-21.1	-0.7	-0.29	0.0	0.3	0.0	6.7	32.4
Motor & Pump P 319	CNEL	100.2	1	202.5	-57.1	4.5	-21.0	-0.7	-0.29	0.0	1.1	0.0	6.7	33.4
Motor & Pump P 327	CNEL	111.2	3	172.8	-55.7	3.9	-16.4	-0.9		0.0	1.8	0.0	6.7	50.6
Motor & Pump P 328	CNEL	109.9	5	178.6	-56.0	3.7	-21.6	-0.7		0.0	0.6	0.0	6.7	42.6
Motor & Pump P 329	CNEL	110.2	5	177.2	-56.0	3.7	-21.7	-0.7		0.0	3.2	0.0	6.7	45.4
Motor & Pump P 451	CNEL	93.7		206.2	-57.3	4.2	-16.0	-1.0	-0.46	0.0	0.0	0.0	6.7	29.8
Motor & Pump P 453	CNEL	93.7		214.1	-57.6	4.2	-21.9	-1.3		0.0	0.0	0.0	6.7	23.8
Motor & Pump P 454	CNEL	93.7		206.7	-57.3	4.2	-16.5	-1.0	-0.49	0.0	0.0	0.0	6.7	29.2
Motor & Pump P 457	CNEL	93.7		215.4	-57.7	4.3	-21.4	-1.2	-0.11	0.0	0.0	0.0	6.7	24.2
Motor & Pump P 458	CNEL	93.7		205.5	-57.2	4.2	-14.4	-0.9	-0.44	0.0	0.0	0.0	6.7	31.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	CNEL	93.7		205.9	-57.3	4.2	-17.0	-1.1		0.0	0.0	0.0	6.7	29.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		174.5	-55.8	4.0	-18.7	-0.9	-0.48	0.0	0.7	0.0	6.7	31.7
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		173.1	-55.8	4.0	-19.0	-0.9	-0.47	0.0	1.0	0.0	6.7	31.6
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		141.8	-54.0	3.6	-22.7	-1.0	-0.11	0.0	1.0	0.0	6.7	28.8
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		141.0	-54.0	3.6	-21.3	-0.9	-0.07	0.0	0.7	0.0	6.7	30.1
Motor & Pump P 1601 A	CNEL	96.3	2	158.2	-55.0	3.4	-16.4	-0.8		0.0	0.4	0.0	6.7	34.6
Motor & Pump P 1601 B	CNEL	96.3	2	157.5	-54.9	3.4	-16.5	-0.8		0.0	0.4	0.0	6.7	34.6
Motor & Pump P 1602 A	CNEL	96.3	2	157.1	-54.9	3.4	-16.8	-0.8		0.0	1.1	0.0	6.7	34.9
Motor & Pump P 1602 B	CNEL	96.5	2	156.4	-54.9	3.4	-17.2	-0.8		0.0	1.9	0.0	6.7	35.6
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	168.5	-55.5	4.0	-20.1	-0.9	-0.30	0.0	0.7	0.0	6.7	31.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	164.5	-55.3	3.9	-17.1	-0.9	-0.29	0.0	0.3	0.0	6.7	34.0
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	162.6	-55.2	3.9	-17.9	-0.9	-0.25	0.0	0.2	0.0	6.7	33.2
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	171.6	-55.7	4.0	-19.2	-0.9	-0.47	0.0	1.0	0.0	6.7	32.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	170.2	-55.6	4.0	-19.6	-0.9	-0.47	0.0	1.1	0.0	6.7	31.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	154.4	-54.8	3.9	-21.8	-1.0	-0.03	0.0	1.5	0.0	6.7	30.7
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	155.8	-54.8	3.9	-19.4	-0.9	-0.13	0.0	0.9	0.0	6.7	32.5
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	158.2	-55.0	3.9	-19.2	-0.9	-0.26	0.0	0.3	0.0	6.7	31.8
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	157.2	-54.9	3.9	-18.8	-0.9	-0.20	0.0	0.8	0.0	6.7	32.9
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	145.7	-54.3	3.0	-20.4	-0.6		0.0	0.8	0.0	6.7	39.4
P-2 A/B	CNEL	98.5		386.3	-62.7	5.2	-21.6	-1.3		0.0	0.0	0.0	6.7	24.8
P-50 A/B	CNEL	98.1		346.7	-61.8	5.2	-24.4	-1.5	-0.52	0.0	0.8	0.0	6.7	22.6
P-51 A/B	CNEL	98.1		350.2	-61.9	5.2	-24.1	-1.4	-0.62	0.0	0.0	0.0	6.7	21.9
P-060 A/B	CNEL	98.1		337.9	-61.6	5.2	-20.7	-1.0	-0.40	0.0	0.8	0.0	6.7	26.9
P-63	CNEL	98.5		376.8	-62.5	5.2	-23.8	-1.5	-0.40	0.0	2.1	0.0	6.7	24.3
P-70 A/B	CNEL	98.1		341.8	-61.7	5.2	-20.7	-1.1	-0.41	0.0	0.3	0.0	6.7	26.4
P-73 A/B	CNEL	98.5		383.7	-62.7	5.2	-23.9	-1.6		0.0	0.0	0.0	6.7	22.2
P-251 A/B	CNEL	98.2		275.3	-59.8	5.0	-23.6	-1.1	-0.45	0.0	0.0	0.0	6.7	24.9
P-252 A/B	CNEL	98.2		265.3	-59.5	5.0	-23.7	-1.1	-0.21	0.0	0.0	0.0	6.7	25.3
P-253	CNEL	98.2		266.9	-59.5	5.0	-23.8	-1.1	-0.20	0.0	0.0	0.0	6.7	25.3
P-254 A/B	CNEL	98.2		277.4	-59.9	5.0	-23.6	-1.1	-0.45	0.0	0.0	0.0	6.7	24.8
P-255 A/B	CNEL	98.2		276.6	-59.8	5.0	-23.6	-1.1	-0.45	0.0	0.0	0.0	6.7	24.8
P-255 A/B	CNEL	98.2		274.0	-59.7	5.0	-21.1	-0.9	-0.45	0.0	0.0	0.0	6.7	27.7
P-256 A/B	CNEL	98.2		275.8	-59.8	5.0	-23.6	-1.1	-0.45	0.0	0.0	0.0	6.7	24.9
P-259 A/B	CNEL	98.2		274.6	-59.8	5.0	-23.5	-1.1	-0.45	0.0	0.0	0.0	6.7	25.0
P-260	CNEL	99.1		262.1	-59.4	5.0	-21.1	-0.9	-0.20	0.0	0.0	0.0	6.7	29.3
P-261 A/B	CNEL	98.0		260.5	-59.3	5.0	-12.5	-0.7	-0.21	0.0	0.0	0.0	6.7	36.9
P-262 A/B	CNEL	99.1		261.2	-59.3	5.0	-20.7	-0.8	-0.20	0.0	0.0	0.0	6.7	29.7
P-263 A/B	CNEL	99.4		261.4	-59.3	5.0	-20.9	-0.8	-0.20	0.0	0.0	0.0	6.7	29.8
P-270 A/B	CNEL	98.5		287.7	-60.2	5.1	-22.8	-1.0	-0.24	0.0	0.0	0.0	6.7	26.0
P-271 A/B	CNEL	98.2		279.6	-59.9	5.0	-23.7	-1.2	-0.45	0.0	0.0	0.0	6.7	24.7
P-272 A/B	CNEL	98.2		278.5	-59.9	5.0	-23.7	-1.1	-0.45	0.0	0.0	0.0	6.7	24.7
P-273 A/B	CNEL	98.5		286.6	-60.1	5.0	-22.7	-1.0	-0.05	0.0	0.0	0.0	6.7	26.3
P-275 A/B/C	CNEL	98.2		269.3	-59.6	5.0	-23.8	-1.1	-0.20	0.0	0.0	0.0	6.7	25.1
P-305	CNEL	99.3		346.9	-61.8	5.2	-23.2	-1.3	-0.65	0.0	0.0	0.0	6.7	24.2
P-306	CNEL	100.8		350.5	-61.9	5.2	-22.1	-1.2	-1.09	0.0	0.0	0.0	6.7	26.4
P-309	CNEL	99.3		347.7	-61.8	5.2	-23.2	-1.3	-0.80	0.0	0.0	0.0	6.7	24.0
P-328	CNEL	100.8		352.8	-61.9	5.2	-23.5	-1.3	-1.11	0.0	1.6	0.0	6.7	26.3
P-329	CNEL	100.8		351.6	-61.9	5.2	-23.0	-1.3	-1.10	0.0	0.0	0.0	6.7	25.4
P-353	CNEL	98.5		334.5	-61.5	4.9	-22.2	-1.1	-0.91	0.0	0.0	0.0	6.7	24.3
P-358 A/B	CNEL	99.4		320.0	-61.1	5.1	-21.0	-1.0	-0.72	0.0	0.0	0.0	6.7	27.3
P-359 A/B	CNEL	99.4		324.4	-61.2	5.1	-21.0	-1.0	-0.84	0.0	0.0	0.0	6.7	27.1
P-360 A/B	CNEL	99.4		332.8	-61.4	5.2	-22.5	-1.1	-1.07	0.0	0.0	0.0	6.7	25.1
P-361A	CNEL	98.1		320.2	-61.1	4.8	-20.4	-1.0	-0.27	0.0	0.0	0.0	6.7	26.8
P-371 A/B	CNEL	98.0		189.1	-56.5	4.2	-21.2	-0.7		0.0	0.0	0.0	6.7	30.4
P-373 A/B	CNEL	98.0		183.0	-56.2	4.1	-20.1	-0.6		0.0	1.5	0.0	6.7	33.4
P-374 A/B	CNEL	98.0		183.8	-56.3	4.1	-19.9	-0.6		0.0	2.0	0.0	6.7	34.0
P-375 A/B	CNEL	98.0		185.9	-56.4	4.1	-18.0	-0.5		0.0	0.2	0.0	6.7	34.1
P-376	CNEL	98.0		184.5	-56.3	4.1	-18.3	-0.5		0.0	0.1	0.0	6.7	33.7
P-376 A/B	CNEL	98.0		182.0	-56.2	4.1	-13.5	-0.6		0.0	0.0	0.0	6.7	38.5
P-377	CNEL	98.0		184.9	-56.3	4.1	-17.2	-0.5		0.0	0.6	0.0	6.7	35.4
P-1101 A	CNEL	98.9		365.1	-62.2	5.0	-23.0	-1.4	-0.28	0.0	4.2	0.0	6.7	27.8
P-1103	CNEL	98.9		364.2	-62.2	5.0	-23.2	-1.4	-0.33	0.0	4.6	0.0	6.7	28.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1105 A/B/C	CNEL	98.9		368.3	-62.3	5.0	-22.8	-1.3	-0.09	0.0	3.8	0.0	6.7	27.9
P-1800	CNEL	98.9		417.9	-63.4	5.3	-21.5	-1.3		0.0	2.2	0.0	6.7	26.7
P-1801	CNEL	98.9		445.7	-64.0	5.3	-24.8	-2.0		0.0	4.5	0.0	6.7	24.6
P-1802	CNEL	98.9		443.8	-63.9	5.3	-24.9	-2.0		0.0	2.0	0.0	6.7	22.1
P-1803	CNEL	99.1		317.5	-61.0	5.1	-23.9	-1.4		0.0	3.2	0.0	6.7	27.8
P-1804	CNEL	99.1		337.8	-61.6	5.1	-23.4	-1.3		0.0	0.0	0.0	6.7	24.6
P-1805	CNEL	99.1		339.7	-61.6	5.1	-24.7	-1.5		0.0	1.2	0.0	6.7	24.3
P-1806	CNEL	99.1		303.3	-60.6	5.1	-20.3	-0.9		0.0	0.6	0.0	6.7	29.6
P-1809 A	CNEL	98.9		421.1	-63.5	5.3	-23.4	-1.5		0.0	0.0	0.0	6.7	22.4
P-1810 A/B/C	CNEL	99.0		332.1	-61.4	5.1	-24.9	-1.6		0.0	0.0	0.0	6.7	22.9
P-1811 A/B	CNEL	99.1		307.3	-60.7	5.1	-21.0	-1.0		0.0	0.0	0.0	6.7	28.1
P-1811 A/B	CNEL	99.1		342.2	-61.7	5.2	-24.4	-1.5		0.0	0.0	0.0	6.7	23.3
P-1847 A/B	CNEL	99.4		261.0	-59.3	4.9	-20.2	-0.8		0.0	0.0	0.0	6.7	30.7
P-1849 A/B	CNEL	99.4		265.7	-59.5	4.9	-15.5	-0.8		0.0	0.0	0.0	6.7	35.2
P-1853	CNEL	99.1		319.8	-61.1	5.1	-23.4	-1.2	-0.64	0.0	0.0	0.0	6.7	24.5
Piping Furnace Tanks	CNEL	87.1	72	149.5	-54.5	2.8	-7.8	-5.4		0.0	0.5	0.0	6.7	29.5
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	163.3	-55.3	2.9	-2.3	-5.6		0.0	0.2	0.0	6.7	44.9
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	138.1	-53.8	2.9	-14.1	-1.1		0.0	0.2	0.0	6.7	55.4
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	139.3	-53.9	2.9	-15.7	-3.3		0.0	0.8	0.0	6.7	52.6
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	343.7	-61.7	3.5	-22.7	-1.3		0.0	0.8	0.0	6.7	35.8
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	312.6	-60.9	3.4	-7.8	-1.3		0.0	0.0	0.0	6.7	51.3
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	296.6	-60.4	3.4	-6.4	-1.4		0.0	0.2	0.0	6.7	46.1
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	338.3	-61.6	3.5	-20.9	-1.2		0.0	0.3	0.0	6.7	38.0
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	308.0	-60.8	3.4	-17.6	-1.0		0.0	0.3	0.0	6.7	35.0
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	297.3	-60.5	3.4	-5.4	-1.4		0.0	0.2	0.0	6.7	46.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	298.9	-60.5	3.4	-4.6	-1.4		0.0	0.0	0.0	6.7	50.3
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	316.4	-61.0	3.4	-15.8	-1.0		0.0	2.1	0.0	6.7	40.5
Pre-Treat Train-Roof 01	CNEL	113.1	2037	323.2	-61.2	2.8	-5.8	-1.5		0.0	0.1	0.0	6.7	54.2
PSA Pipe 3" Lagging	CNEL	80.6	11	136.4	-53.7	2.8	-16.1	-0.8		0.0	0.3	0.0	6.7	19.7
PSA Skid Additional Piping w NC	CNEL	116.6	57	138.6	-53.8	2.9	-14.6	-1.1		0.0	0.3	0.0	6.7	57.0
Reformer-Burner Reformer East	CNEL	97.3	269	133.9	-53.5	2.8	-17.8	-0.6		0.0	0.6	0.0	6.7	38.5
Reformer-Burner Reformer North	CNEL	95.9	192	138.4	-53.8	2.8	-16.5	-0.6		0.0	1.7	0.0	6.7	36.2
Reformer-Burner Reformer South	CNEL	95.8	191	142.6	-54.1	2.8	-24.0	-1.1		0.0	0.7	0.0	6.7	29.8
Reformer-Burner Reformer West	CNEL	97.3	268	147.1	-54.3	2.8	-23.4	-1.0		0.0	0.1	0.0	6.7	31.1
RFG A from battery to process	CNEL	99.4	87	162.5	-55.2	2.8	-2.3	-5.7		0.0	0.1	0.0	6.7	45.8
RFG A from battery to process w NC	CNEL	115.2	42	136.5	-53.7	2.9	-17.0	-3.2		0.0	0.9	0.0	6.7	51.8
Stack Noise	CNEL	108.4		155.9	-54.8	2.7	-5.1	-0.7		-6.1	0.0	0.0	6.7	51.1
Steam Turbine-Facade 01	CNEL	99.6	29	157.2	-54.9	3.4	-23.7	-2.8		0.0	0.3	0.0	6.7	28.6
Steam Turbine-Facade 02	CNEL	96.2	13	154.6	-54.8	3.4	-21.2	-1.7		0.0	0.4	0.0	6.7	29.0
Steam Turbine-Facade 03	CNEL	99.6	29	153.5	-54.7	3.4	-23.3	-2.4		0.0	0.3	0.0	6.7	29.5
Steam Turbine-Facade 04	CNEL	96.2	13	156.2	-54.9	3.4	-24.1	-3.0		0.0	0.0	0.0	6.7	24.3
Steam Turbine-Roof 01	CNEL	99.7	30	155.3	-54.8	2.9	-19.2	-1.7		0.0	0.1	0.0	6.7	33.7
Tank Farm Pump 1	CNEL	99.0	3	236.9	-58.5	4.5	-17.7	-1.0		0.0	0.0	0.0	6.7	33.0
Tank Farm Pump 2	CNEL	99.0	3	252.7	-59.0	4.5	-15.2	-1.1		0.0	0.0	0.0	6.7	34.9
Tank Farm Pump 3	CNEL	99.0	3	257.4	-59.2	4.6	-13.7	-1.1		0.0	0.0	0.0	6.7	36.2
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	331.3	-61.4	3.8	-7.5	-3.4	-0.04	0.0	0.1	-13.8	0.0	30.2
XF-1502 Splitter Area 1	CNEL	104.5		160.1	-55.1	2.8	-16.5	-0.6	-0.05	-2.9	0.1	0.0	6.7	38.9
XF-1502 Splitter Area 2	CNEL	104.5		163.1	-55.2	2.8	-15.3	-0.6	-0.04	-3.0	0.0	0.0	6.7	39.8
XF-1504 Splitter Area 1	CNEL	104.5		157.5	-54.9	2.8	-20.3	-0.6	-0.03	-2.6	0.1	0.0	6.7	35.6
XF-1504 Splitter Area 2	CNEL	104.5		160.6	-55.1	2.8	-20.1	-0.6	-0.03	-2.6	0.1	0.0	6.7	35.6
XF 251, 250, 271, 270	CNEL	101.1	128	274.5	-59.8	2.8	-17.4	-0.4		-1.4	0.0	0.0	6.7	31.5
XF 260, 261A, 261 B	CNEL	99.9	97	266.6	-59.5	2.8	-4.3	-1.1	-0.01	-2.8	0.0	0.0	6.7	41.6
XF 304, XF 321	CNEL	110.5	56	189.5	-56.5	2.6	-17.2	-0.3	-0.04	-1.5	0.0	0.0	6.7	44.1
XF 313, XF 314	CNEL	113.0	18	175.2	-55.9	2.5	-8.5	-0.5		-3.3	0.2	0.0	6.7	54.2
XF 335-1, XF 335-2	CNEL	113.4	54	183.2	-56.3	2.6	-10.9	-0.7	-0.08	-2.6	0.0	0.0	6.7	52.2
XF 353A/B	CNEL	95.4	35	330.7	-61.4	2.9	-15.1	-0.4	-0.01	-1.3	0.0	0.0	6.7	26.8
XF 353A/B	CNEL	95.4	35	305.9	-60.7	2.8	-15.3	-0.4		-1.3	0.0	0.0	6.7	27.2
XF 354A/B	CNEL	95.4	35	340.4	-61.6	3.0	-16.7	-0.5	0.00	-1.2	0.0	0.0	6.7	25.1
XF 503	CNEL	113.0	21	207.8	-57.3	2.8	-17.8	-0.8	-0.51	-2.6	0.2	0.0	6.7	43.5
XF - 1601	CNEL	96.6		158.7	-55.0	2.7	-10.2	-0.2		-1.1	0.0	0.0	6.7	39.5
XF - 1602	CNEL	96.6		155.9	-54.9	2.7	-11.8	-0.2		-1.1	0.0	0.0	6.7	38.1
XF Module 1510	CNEL	108.3		169.5	-55.6	2.8	-16.5	-0.7	-0.25	-2.9	0.0	0.0	6.7	42.0
XF Module 1519	CNEL	109.0		165.3	-55.4	2.8	-17.8	-0.7	-0.21	-2.8	0.1	0.0	6.7	41.7
xxxx xxxx xxxx xxxx	CNEL		606								8.9			35.1
xxxx xxxx xxxx xxxx	CNEL		606								8.6			35.1

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	CNEL		917								7.6			24.2	
xxxx xxxx xxxx xxxx	CNEL		917								7.2			24.5	
xxxx xxxx xxxx xxxx	CNEL		608								2.9			37.4	
xxxx xxxx xxxx xxxx	CNEL		608								3.1			37.4	
xxxx xxxx xxxx xxxx	CNEL		228								5.7			22.8	
xxxx xxxx xxxx xxxx	CNEL		520								3.3			43.0	
xxxx xxxx xxxx xxxx	CNEL		1341								5.0			47.0	
xxxx xxxx xxxx xxxx	CNEL		450								7.1			20.1	
Receiver MH-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 57.2 dB(A)		Ld 7-19 dB(A)		Leq,N 57.1 dB(A)		Le 19-22 dB(A)		CNEL 63.8 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	139.9	-53.9	2.9	-23.4	-1.1		0.0	2.8	0.0	6.7	38.3	
18-1855 A/B	CNEL	98.8		223.6	-58.0	4.5	-23.9	-1.0		0.0	0.0	0.0	6.7	27.1	
18-1856 A/B	CNEL	98.8		224.9	-58.0	4.5	-23.8	-1.0		0.0	0.0	0.0	6.7	27.2	
18-1857 A/B	CNEL	98.8		222.4	-57.9	4.5	-24.2	-1.0		0.0	0.0	0.0	6.7	26.8	
18-1858 A/B	CNEL	98.8		221.9	-57.9	4.2	-24.1	-1.0		0.0	0.0	0.0	6.7	26.6	
18-PK 1802 Air Compressor Package	CNEL	103.1		238.6	-58.5	4.7	-21.5	-0.5		0.0	0.1	0.0	6.7	34.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	289.0	-60.2	4.6	-16.0	-1.1	-0.04	0.0	0.0	-4.8	1.0	32.5	
Air Compressor C 1	CNEL	110.0	5	187.3	-56.4	4.1	-21.0	-0.5		0.0	1.8	0.0	6.7	44.5	
Air Compressor Pump	CNEL	100.3		233.5	-58.4	4.4	-23.9	-2.4		0.0	0.7	0.0	6.7	27.4	
Blower F 401	CNEL	113.0		251.6	-59.0	4.1	-16.4	-0.3	-0.30	0.0	0.0	0.0	6.7	47.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	367.0	-62.3	4.8	-19.4	-0.8	-1.66	0.0	0.6	0.0	6.7	26.5	
Boiler Feed Water Pump A	CNEL	97.1	3	201.1	-57.1	4.2	-23.4	-1.0		0.0	0.5	0.0	6.7	27.0	
Boiler Feed Water Pump B	CNEL	97.1	3	204.4	-57.2	4.2	-23.5	-1.0		0.0	0.0	0.0	6.7	26.3	
C370 A Motor	CNEL	103.6	3	189.7	-56.6	3.0	-23.9	-1.1		0.0	1.3	0.0	6.7	32.9	
C370 B Motor	CNEL	108.6	3	188.3	-56.5	3.0	-18.1	-0.6		0.0	0.1	0.0	6.7	43.1	
C370A	CNEL	103.8	5	185.3	-56.3	3.0	-23.9	-1.1		0.0	1.3	0.0	6.7	33.4	
C370B	CNEL	103.8	5	183.9	-56.3	3.0	-18.1	-0.6		0.0	0.0	0.0	6.7	38.6	
C-270 A	CNEL	106.3	6	301.7	-60.6	4.2	-18.1	-0.9	-0.51	0.0	0.2	0.0	6.7	37.2	
C-270 B	CNEL	106.3	6	300.5	-60.5	4.2	-18.7	-0.9	-0.16	0.0	0.1	0.0	6.7	37.0	
C-270 C	CNEL	106.3	6	299.3	-60.5	4.2	-19.1	-0.9		0.0	0.3	0.0	6.7	36.9	
C-301 Compressor	CNEL	106.8	3	283.2	-60.0	4.1	-10.3	-1.1	-0.13	0.0	0.0	0.0	6.7	46.0	
C-301 Motor	CNEL	106.8	4	281.9	-60.0	4.1	-12.5	-1.5	-0.14	0.0	0.0	0.0	6.7	43.4	
C-351 Compressor	CNEL	106.8	4	301.2	-60.6	4.2	-21.1	-1.2	-0.50	0.0	0.4	0.0	6.7	34.6	
C-351 Motor	CNEL	106.8	5	305.8	-60.7	3.9	-22.4	-2.1	-0.50	0.0	0.4	0.0	6.7	32.1	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	291.7	-60.3	4.7	-14.6	-0.4	-0.11	0.0	0.0	-35.6	0.0	28.4	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	242.1	-58.7	3.6	-18.7	-0.6	-0.66	2.3	0.0	0.0	6.7	38.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	235.7	-58.4	3.6	-17.0	-0.7	-0.53	0.0	0.0	0.0	6.7	34.2	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	243.1	-58.7	3.6	-16.3	-0.5	-0.33	2.8	0.0	0.0	6.7	43.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	251.2	-59.0	3.7	-21.5	-0.7	-0.29	-7.5	0.0	0.0	6.7	32.0	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	239.0	-58.6	3.6	-20.9	-0.7	-0.56	-7.6	0.0	0.0	6.7	25.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	255.7	-59.1	3.7	-20.7	-0.9	-0.11	-7.8	0.0	0.0	6.7	22.2	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	189.5	-56.5	3.4	-16.2	-0.5		2.9	0.0	0.0	6.7	37.7	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	197.1	-56.9	3.4	-20.6	-0.7	-0.04	-7.5	0.0	0.0	6.7	22.2	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	177.1	-56.0	3.1	-11.0	-0.6		3.2	0.0	0.0	6.7	46.0	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	186.6	-56.4	3.3	-18.7	-0.6		-7.1	0.0	0.0	6.7	27.7	
Cooling Tower M 512	CNEL	95.7		198.5	-56.9	4.1	-23.0	-0.9		0.0	0.0	0.0	6.7	25.7	
Cooling Tower M 513	CNEL	95.7		199.4	-57.0	4.0	-23.1	-0.9		0.0	0.0	0.0	6.7	25.4	
Cooling Tower M 514	CNEL	95.7		197.7	-56.9	4.1	-22.9	-0.9		0.0	0.0	0.0	6.7	25.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	173.3	-55.8	2.8	-18.7	-0.3		-1.5	0.0	0.0	6.7	28.9	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	129.2	-53.2	2.9	-15.4	0.0		0.0	0.2	0.0	6.7	36.4	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	126.9	-53.1	3.0	-15.2	0.0		0.0	0.4	0.0	6.7	34.8	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	128.9	-53.2	2.8	-12.9	0.0		0.0	0.2	0.0	6.7	37.0	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	131.1	-53.3	2.8	-15.4	0.0		0.0	0.2	0.0	6.7	34.1	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	128.7	-53.2	2.9	-13.2	0.0		0.0	0.1	0.0	6.7	38.5	
FD Motor	CNEL	103.3	2	129.5	-53.2	2.9	-24.1	-1.4		0.0	2.9	0.0	6.7	37.1	
Feed Compressor -B Motor	CNEL	103.8	5	197.7	-56.9	3.1	-23.0	-1.6		0.0	1.4	0.0	6.7	33.4	
Feed Compressor-A Compressor	CNEL	104.0	5	192.0	-56.7	3.2	-20.0	-0.7		0.0	0.0	0.0	6.7	36.6	
Feed Compressor-A Motor	CNEL	103.8	6	197.3	-56.9	3.1	-21.7	-1.3		0.0	0.1	0.0	6.7	33.8	
Feed Compressor-B Compressor	CNEL	104.0	7	191.8	-56.6	3.2	-21.8	-0.9		0.0	0.0	0.0	6.7	34.6	
H2S Compressor 18-C-271	CNEL	105.3	6	205.2	-57.2	3.8	-18.9	-0.7	-0.24	0.0	0.0	0.0	6.7	38.7	
Heater # 5-Heater	CNEL	91.1	13	362.9	-62.2	4.8	-21.6	-1.0	-1.64	0.0	1.3	0.0	6.7	20.4	
Heater # 5-Heater	CNEL	91.1	13	361.4	-62.2	4.8	-21.9	-1.0	-1.64	0.0	0.0	0.0	6.7	18.8	
Heater # 5-Heater	CNEL	91.1	13	364.5	-62.2	4.8	-22.6	-1.1	-1.01	0.0	2.2	0.0	6.7	20.9	
Hydro Heater H-402	CNEL	98.1		215.7	-57.7	4.1	-14.2	-0.4	-0.47	0.0	0.2	0.0	6.7	36.2	

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	142.0	-54.0	3.2	-14.1	0.0		0.0	0.0	0.0	6.7	28.7
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	144.3	-54.2	3.2	-15.3	0.0		0.0	0.0	0.0	6.7	27.6
ID Fan-ID Fan - North	CNEL	92.2	8	141.2	-54.0	3.2	-11.7	0.0		0.0	0.0	0.0	6.7	36.3
ID Fan-ID Fan - North 2	CNEL	91.4	7	142.8	-54.1	3.2	-12.0	0.0		0.0	0.0	0.0	6.7	35.1
ID Fan-ID Fan - South	CNEL	92.3	9	144.3	-54.2	3.2	-15.7	0.0		0.0	0.0	0.0	6.7	32.3
ID Fan-ID Fan - South 2	CNEL	91.4	7	144.2	-54.2	3.2	-15.3	0.0		0.0	0.0	0.0	6.7	31.7
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	143.0	-54.1	2.9	-9.7	0.0		0.0	0.0	0.0	6.7	39.7
Motor & Pump P 56A/B	CNEL	93.7		210.1	-57.4	4.2	-21.3	-1.1	-0.58	0.0	0.0	0.0	6.7	24.1
Motor & Pump P 120/121	CNEL	96.2	2	193.2	-56.7	4.1	-20.4	-0.7	-0.11	0.0	0.7	0.0	6.7	29.7
Motor & Pump P 211/212	CNEL	93.7		241.5	-58.6	4.5	-20.7	-1.2	-1.04	0.0	0.6	0.0	6.7	23.9
Motor & Pump P 215/214	CNEL	94.6		238.2	-58.5	4.5	-20.7	-1.2	-0.96	0.0	0.2	0.0	6.7	24.6
Motor & Pump P 216	CNEL	98.3		246.0	-58.8	4.4	-20.5	-1.2	-1.02	0.0	0.4	0.0	6.7	28.3
Motor & Pump P 217/218	CNEL	93.7		240.3	-58.6	4.7	-21.5	-1.2	-1.05	0.0	0.8	0.0	6.7	23.5
Motor & Pump P 300	CNEL	97.1	2	202.4	-57.1	4.2	-18.8	-0.7		0.0	0.8	0.0	6.7	32.2
Motor & Pump P 301	CNEL	102.1	2	203.2	-57.2	4.2	-19.8	-0.7		0.0	0.9	0.0	6.7	36.2
Motor & Pump P 302	CNEL	97.1	2	201.6	-57.1	4.2	-18.6	-0.7		0.0	0.9	0.0	6.7	32.5
Motor & Pump P 303	CNEL	97.1	2	200.9	-57.1	4.1	-18.4	-0.7		0.0	0.4	0.0	6.7	32.1
Motor & Pump P 305	CNEL	97.5	2	200.2	-57.0	4.1	-20.5	-0.7		0.0	0.2	0.0	6.7	30.2
Motor & Pump P 306	CNEL	112.6	4	196.1	-56.8	3.8	-21.9	-1.0		0.0	0.1	0.0	6.7	43.4
Motor & Pump P 307	CNEL	102.1	2	205.7	-57.3	4.2	-19.8	-0.7	0.00	0.0	1.4	0.0	6.7	36.7
Motor & Pump P 309	CNEL	97.5	2	199.6	-57.0	4.1	-22.3	-0.8		0.0	0.2	0.0	6.7	28.3
Motor & Pump P 312	CNEL	101.5	2	217.6	-57.7	4.5	-19.7	-0.7	-0.27	0.0	0.0	0.0	6.7	34.2
Motor & Pump P 313	CNEL	101.5	2	218.7	-57.8	4.5	-18.8	-0.7	-0.27	0.0	0.3	0.0	6.7	35.5
Motor & Pump P 315	CNEL	102.9	2	222.7	-57.9	4.4	-19.3	-0.7	-0.28	0.0	0.0	0.0	6.7	35.7
Motor & Pump P 316	CNEL	102.9	2	223.9	-58.0	4.4	-19.5	-0.8	-0.28	0.0	0.0	0.0	6.7	35.5
Motor & Pump P 317	CNEL	102.9	2	225.1	-58.0	4.4	-19.6	-0.8	-0.28	0.0	0.0	0.0	6.7	35.2
Motor & Pump P 318	CNEL	100.2	1	221.1	-57.9	4.6	-19.2	-0.7	-0.28	0.0	0.8	0.0	6.7	34.2
Motor & Pump P 319	CNEL	100.2	1	220.2	-57.8	4.6	-19.0	-0.7	-0.28	0.0	0.5	0.0	6.7	34.1
Motor & Pump P 327	CNEL	111.2	3	193.4	-56.7	4.1	-22.6	-1.2		0.0	1.3	0.0	6.7	42.7
Motor & Pump P 328	CNEL	109.9	5	198.6	-57.0	3.9	-22.4	-0.8		0.0	0.2	0.0	6.7	40.5
Motor & Pump P 329	CNEL	110.2	5	197.3	-56.9	3.9	-22.8	-0.8		0.0	0.2	0.0	6.7	40.4
Motor & Pump P 451	CNEL	93.7		220.1	-57.8	4.3	-19.9	-1.1	-0.30	0.0	0.0	0.0	6.7	25.5
Motor & Pump P 453	CNEL	93.7		227.3	-58.1	4.3	-21.3	-1.2		0.0	0.0	0.0	6.7	24.0
Motor & Pump P 454	CNEL	93.7		220.8	-57.9	4.3	-18.3	-1.0	-0.35	0.0	0.0	0.0	6.7	27.1
Motor & Pump P 457	CNEL	93.7		228.5	-58.2	4.3	-21.2	-1.2		0.0	0.0	0.0	6.7	24.0
Motor & Pump P 458	CNEL	93.7		219.4	-57.8	4.3	-19.9	-1.1	-0.27	0.0	0.0	0.0	6.7	25.5
Motor & Pump P 459	CNEL	93.7		220.0	-57.8	4.3	-18.2	-1.0	-0.37	0.0	0.0	0.0	6.7	27.1
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		189.1	-56.5	4.1	-19.5	-1.1	-0.10	0.0	1.0	0.0	6.7	30.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		187.9	-56.5	4.1	-19.4	-1.1	-0.09	0.0	1.0	0.0	6.7	30.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		158.2	-55.0	3.8	-23.7	-1.3	-0.12	0.0	1.7	0.0	6.7	27.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		157.5	-54.9	3.8	-23.7	-1.3	-0.08	0.0	0.1	0.0	6.7	26.0
Motor & Pump P 1601 A	CNEL	96.3	2	170.5	-55.6	3.6	-21.0	-1.0		0.0	1.4	0.0	6.7	30.3
Motor & Pump P 1601 B	CNEL	96.3	2	169.6	-55.6	3.6	-20.9	-1.0		0.0	6.7	0.0	6.7	35.8
Motor & Pump P 1602 A	CNEL	96.3	2	169.1	-55.6	3.6	-19.8	-0.9		0.0	1.1	0.0	6.7	31.3
Motor & Pump P 1602 B	CNEL	96.5	2	168.2	-55.5	3.5	-19.6	-0.9		0.0	1.0	0.0	6.7	31.7
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	182.4	-56.2	4.1	-21.6	-1.0	-0.25	0.0	0.0	0.0	6.7	28.3
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	178.8	-56.0	4.1	-19.4	-0.9	-0.25	0.0	0.0	0.0	6.7	30.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	177.0	-56.0	4.1	-19.2	-0.9	-0.25	0.0	0.0	0.0	6.7	31.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	186.4	-56.4	4.1	-20.9	-1.1	-0.37	0.0	1.3	0.0	6.7	30.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	185.1	-56.3	4.1	-22.9	-1.2	-0.41	0.0	1.2	0.0	6.7	27.8
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	168.6	-55.5	4.0	-21.8	-1.0	-0.03	0.0	1.2	0.0	6.7	29.9
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	170.2	-55.6	4.0	-21.5	-1.0	-0.10	0.0	1.2	0.0	6.7	29.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	173.0	-55.8	4.0	-21.6	-1.1	-0.23	0.0	1.3	0.0	6.7	29.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	171.7	-55.7	4.0	-21.4	-1.1	-0.20	0.0	1.2	0.0	6.7	29.8
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	164.6	-55.3	3.2	-20.9	-0.7		0.0	0.2	0.0	6.7	37.4
P-2 A/B	CNEL	98.5		373.8	-62.4	5.2	-19.7	-1.1		0.0	0.0	0.0	6.7	27.1
P-50 A/B	CNEL	98.1		335.2	-61.5	5.1	-24.0	-1.4	-0.49	0.0	0.0	0.0	6.7	22.6
P-51 A/B	CNEL	98.1		338.9	-61.6	5.2	-23.4	-1.3	-0.55	0.0	0.0	0.0	6.7	23.1
P-060 A/B	CNEL	98.1		326.1	-61.3	5.1	-16.2	-0.9	-0.45	0.0	0.0	0.0	6.7	31.0
P-63	CNEL	98.5		366.0	-62.3	5.2	-20.7	-1.1	-0.40	0.0	0.3	0.0	6.7	26.3
P-70 A/B	CNEL	98.1		330.2	-61.4	5.1	-15.9	-1.0	-0.45	0.0	0.0	0.0	6.7	31.2
P-73 A/B	CNEL	98.5		371.4	-62.4	5.2	-23.0	-1.4		0.0	0.0	0.0	6.7	23.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
P-251 A/B	CNEL	98.2		272.4	-59.7	5.0	-23.8	-1.2	-0.44	0.0	0.0	0.0	6.7	24.7	
P-252 A/B	CNEL	98.2		262.0	-59.4	5.0	-23.9	-1.1	-0.20	0.0	0.0	0.0	6.7	25.2	
P-253	CNEL	98.2		262.9	-59.4	5.0	-23.9	-1.1	-0.20	0.0	0.0	0.0	6.7	25.3	
P-254 A/B	CNEL	98.2		273.5	-59.7	5.0	-23.8	-1.2	-0.44	0.0	0.0	0.0	6.7	24.7	
P-255 A/B	CNEL	98.2		273.1	-59.7	5.0	-23.8	-1.2	-0.44	0.0	0.0	0.0	6.7	24.7	
P-255 A/B	CNEL	98.2		271.7	-59.7	5.0	-23.9	-1.2	-0.44	0.0	0.1	0.0	6.7	24.8	
P-256 A/B	CNEL	98.2		272.6	-59.7	5.0	-23.8	-1.2	-0.44	0.0	0.0	0.0	6.7	24.7	
P-259 A/B	CNEL	98.2		272.0	-59.7	5.0	-23.8	-1.2	-0.44	0.0	0.1	0.0	6.7	24.8	
P-260	CNEL	99.1		260.5	-59.3	5.0	-23.8	-1.1	-0.20	0.0	0.0	0.0	6.7	26.4	
P-261 A/B	CNEL	98.0		261.0	-59.3	5.0	-23.0	-1.0	-0.20	0.0	0.0	0.0	6.7	26.2	
P-262 A/B	CNEL	99.1		260.3	-59.3	5.0	-22.2	-0.9	-0.20	0.0	0.0	0.0	6.7	28.1	
P-263 A/B	CNEL	99.4		260.2	-59.3	5.0	-23.8	-1.1	-0.19	0.0	0.0	0.0	6.7	26.7	
P-270 A/B	CNEL	98.5		280.5	-60.0	5.0	-21.6	-0.9	-0.23	0.0	0.0	0.0	6.7	27.5	
P-271 A/B	CNEL	98.2		275.0	-59.8	5.0	-23.0	-1.0	-0.46	0.0	0.0	0.0	6.7	25.7	
P-272 A/B	CNEL	98.2		274.2	-59.8	5.0	-22.0	-0.9	-0.45	0.0	0.0	0.0	6.7	26.8	
P-273 A/B	CNEL	98.5		279.6	-59.9	5.0	-21.7	-0.9	-0.07	0.0	0.0	0.0	6.7	27.6	
P-275 A/B/C	CNEL	98.2		264.4	-59.4	5.0	-23.4	-1.0	-0.20	0.0	0.0	0.0	6.7	25.8	
P-305	CNEL	99.3		340.0	-61.6	5.2	-22.0	-1.1	-1.14	0.0	0.0	0.0	6.7	25.2	
P-306	CNEL	100.8		343.1	-61.7	5.2	-20.6	-1.1	-1.60	0.0	0.3	0.0	6.7	28.0	
P-309	CNEL	99.3		340.7	-61.6	5.2	-22.0	-1.1	-1.42	0.0	0.0	0.0	6.7	25.0	
P-328	CNEL	100.8		345.0	-61.7	5.2	-22.4	-1.2	-1.61	0.0	2.7	0.0	6.7	28.4	
P-329	CNEL	100.8		343.9	-61.7	5.2	-20.5	-1.0	-1.60	0.0	0.2	0.0	6.7	28.0	
P-353	CNEL	98.5		327.2	-61.3	4.9	-20.4	-1.0	-1.26	0.0	0.0	0.0	6.7	26.0	
P-358 A/B	CNEL	99.4		310.9	-60.8	5.1	-20.0	-0.9	-0.70	0.0	0.7	0.0	6.7	29.4	
P-359 A/B	CNEL	99.4		315.4	-61.0	5.1	-20.1	-0.9	-0.81	0.0	0.2	0.0	6.7	28.6	
P-360 A/B	CNEL	99.4		324.1	-61.2	5.1	-20.4	-1.0	-1.03	0.0	0.4	0.0	6.7	27.9	
P-361A	CNEL	98.1		307.8	-60.8	4.8	-15.4	-0.9	-0.26	0.0	0.0	0.0	6.7	32.3	
P-371 A/B	CNEL	98.0		197.1	-56.9	4.2	-19.7	-0.6		0.0	0.0	0.0	6.7	31.7	
P-373 A/B	CNEL	98.0		189.0	-56.5	4.1	-16.9	-0.5		0.0	0.0	0.0	6.7	34.9	
P-374 A/B	CNEL	98.0		190.2	-56.6	4.1	-18.2	-0.5		0.0	0.3	0.0	6.7	33.8	
P-375 A/B	CNEL	98.0		193.3	-56.7	4.2	-19.9	-0.6		0.0	0.6	0.0	6.7	32.2	
P-376	CNEL	98.0		191.2	-56.6	4.2	-18.2	-0.5		0.0	0.2	0.0	6.7	33.7	
P-376 A/B	CNEL	98.0		187.5	-56.5	4.1	-16.5	-0.5		0.0	0.0	0.0	6.7	35.3	
P-377	CNEL	98.0		191.9	-56.7	4.2	-16.6	-0.5		0.0	0.4	0.0	6.7	35.5	
P-1101 A	CNEL	98.9		352.5	-61.9	4.9	-20.9	-1.1		0.0	0.0	0.0	6.7	26.5	
P-1103	CNEL	98.9		351.6	-61.9	4.9	-21.6	-1.2		0.0	0.0	0.0	6.7	25.8	
P-1105 A/B/C	CNEL	98.9		355.4	-62.0	4.9	-19.8	-1.1		0.0	0.0	0.0	6.7	27.6	
P-1800	CNEL	98.9		405.2	-63.1	5.3	-12.9	-1.2		0.0	0.7	0.0	6.7	34.3	
P-1801	CNEL	98.9		431.2	-63.7	5.3	-24.8	-1.9		0.0	4.2	0.0	6.7	24.5	
P-1802	CNEL	98.9		429.2	-63.6	5.3	-24.9	-1.9		0.0	1.4	0.0	6.7	21.8	
P-1803	CNEL	99.1		304.2	-60.7	5.1	-16.0	-0.9		0.0	1.6	0.0	6.7	35.0	
P-1804	CNEL	99.1		324.4	-61.2	5.1	-15.5	-0.9		0.0	0.0	0.0	6.7	33.2	
P-1805	CNEL	99.1		326.2	-61.3	5.1	-24.6	-1.5		0.0	2.8	0.0	6.7	26.4	
P-1806	CNEL	99.1		291.3	-60.3	5.0	-17.3	-0.8		0.0	0.0	0.0	6.7	32.4	
P-1809 A	CNEL	98.9		407.7	-63.2	5.3	-21.7	-1.3		0.0	0.0	0.0	6.7	24.7	
P-1810 A/B/C	CNEL	99.0		318.1	-61.0	5.1	-24.9	-1.5		0.0	0.0	0.0	6.7	23.4	
P-1811 A/B	CNEL	99.1		294.9	-60.4	5.0	-17.0	-0.8		0.0	0.0	0.0	6.7	32.6	
P-1811 A/B	CNEL	99.1		328.5	-61.3	5.1	-24.3	-1.4		0.0	0.0	0.0	6.7	23.9	
P-1847 A/B	CNEL	99.4		245.4	-58.8	4.9	-16.3	-0.7		0.0	0.0	0.0	6.7	35.1	
P-1849 A/B	CNEL	99.4		249.8	-58.9	4.9	-14.5	-0.8		0.0	0.0	0.0	6.7	36.8	
P-1853	CNEL	99.1		315.7	-61.0	5.1	-21.5	-1.0	-0.76	0.0	0.0	0.0	6.7	26.6	
Piping Furnace Tanks	CNEL	87.1	72	148.5	-54.4	2.8	-23.8	-4.1		0.0	0.4	0.0	6.7	14.7	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	161.1	-55.1	2.8	-22.9	-3.7		0.0	0.3	0.0	6.7	26.6	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	143.7	-54.1	2.9	-16.3	-1.1		0.0	0.3	0.0	6.7	52.9	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	144.3	-54.2	2.9	-18.6	-3.6		0.0	1.2	0.0	6.7	49.6	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	325.7	-61.2	3.5	-23.2	-1.3		0.0	0.4	0.0	6.7	35.3	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	294.5	-60.4	3.4	-13.4	-0.9		0.0	0.0	0.0	6.7	46.4	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	279.7	-59.9	3.3	-8.9	-1.1		0.0	0.0	0.0	6.7	44.2	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	321.6	-61.1	3.4	-21.6	-1.2		0.0	0.1	0.0	6.7	37.5	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	291.8	-60.3	3.4	-18.5	-1.0		0.0	1.5	0.0	6.7	35.8	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	280.1	-59.9	3.3	-11.7	-0.9		0.0	0.1	0.0	6.7	41.2	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	282.5	-60.0	3.3	-4.7	-1.3		0.0	0.0	0.0	6.7	50.7	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	300.3	-60.5	3.4	-16.0	-1.0		0.0	0.1	0.0	6.7	38.7	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	306.0	-60.7	2.8	-10.5	-1.3		0.0	0.0	0.0	6.7	50.1	
PSA Pipe 3" Lagging	CNEL	80.6	11	139.1	-53.9	2.8	-22.4	-1.2		0.0	0.3	0.0	6.7	13.0	
PSA Skid Additional Piping w NC	CNEL	116.6	57	144.6	-54.2	2.9	-15.4	-1.1		0.0	0.3	0.0	6.7	55.8	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer East	CNEL	97.3	269	130.4	-53.3	2.8	-18.9	-0.6		0.0	0.8	0.0	6.7	37.8
Reformer-Burner Reformer North	CNEL	95.9	192	136.5	-53.7	2.8	-23.3	-1.0		0.0	0.5	0.0	6.7	27.9
Reformer-Burner Reformer South	CNEL	95.8	191	137.6	-53.8	2.8	-23.2	-1.0		0.0	0.0	0.0	6.7	30.5
Reformer-Burner Reformer West	CNEL	97.3	268	143.9	-54.2	2.8	-23.8	-1.1		0.0	0.0	0.0	6.7	30.7
RFG A from battery to process	CNEL	99.4	87	162.6	-55.2	2.9	-23.1	-3.8		0.0	0.3	0.0	6.7	27.0
RFG A from battery to process w NC	CNEL	115.2	42	141.7	-54.0	2.9	-19.6	-3.5		0.0	0.9	0.0	6.7	48.5
Stack Noise	CNEL	108.4		147.0	-54.3	2.7	-3.4	-0.8		-6.2	0.0	0.0	6.7	53.1
Steam Turbine-Facade 01	CNEL	99.6	29	163.1	-55.2	3.4	-24.0	-3.0		0.0	0.3	0.0	6.7	27.9
Steam Turbine-Facade 02	CNEL	96.2	13	160.1	-55.1	3.4	-23.3	-2.4		0.0	0.1	0.0	6.7	25.7
Steam Turbine-Facade 03	CNEL	99.6	29	159.6	-55.1	3.4	-23.3	-2.5		0.0	0.2	0.0	6.7	29.1
Steam Turbine-Facade 04	CNEL	96.2	13	162.8	-55.2	3.4	-24.2	-3.2		0.0	0.0	0.0	6.7	23.7
Steam Turbine-Roof 01	CNEL	99.7	30	161.4	-55.1	2.9	-19.9	-1.6		0.0	0.1	0.0	6.7	32.6
Tank Farm Pump 1	CNEL	99.0	3	221.0	-57.9	4.4	-17.4	-1.0		0.0	0.0	0.0	6.7	33.8
Tank Farm Pump 2	CNEL	99.0	3	235.8	-58.4	4.4	-19.5	-1.0		0.0	0.0	0.0	6.7	31.1
Tank Farm Pump 3	CNEL	99.0	3	240.3	-58.6	4.5	-19.3	-1.0		0.0	0.0	0.0	6.7	31.2
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	347.3	-61.8	3.9	-8.0	-3.5	-0.04	0.0	0.4	-13.8	0.0	29.5
XF-1502 Splitter Area 1	CNEL	104.5		174.4	-55.8	2.8	-13.1	-0.7	-0.06	-3.0	0.0	0.0	6.7	41.3
XF-1502 Splitter Area 2	CNEL	104.5		177.2	-56.0	2.8	-13.2	-0.7	-0.05	-3.0	0.0	0.0	6.7	41.1
XF-1504 Splitter Area 1	CNEL	104.5		171.5	-55.7	2.8	-14.1	-0.6	-0.03	-2.8	0.0	0.0	6.7	40.7
XF-1504 Splitter Area 2	CNEL	104.5		174.3	-55.8	2.8	-13.7	-0.6	-0.03	-2.9	0.0	0.0	6.7	40.9
XF 251, 250, 271, 270	CNEL	101.1	128	269.9	-59.6	2.8	-15.6	-0.4		-1.5	0.0	0.0	6.7	33.4
XF 260, 261A, 261 B	CNEL	99.9	97	266.3	-59.5	2.8	-15.7	-0.4		-1.3	0.0	0.0	6.7	32.6
XF 304, XF 321	CNEL	110.5	56	209.1	-57.4	2.6	-17.0	-0.3	-0.04	-1.6	0.0	0.0	6.7	43.4
XF 313, XF 314	CNEL	113.0	18	196.2	-56.8	2.5	-8.2	-0.6		-3.3	0.1	0.0	6.7	53.4
XF 335-1, XF 335-2	CNEL	113.4	54	203.4	-57.2	2.6	-17.6	-0.4	-0.05	-1.7	0.0	0.0	6.7	45.7
XF 353A/B	CNEL	95.4	35	321.1	-61.1	2.8	-5.2	-0.9	-0.01	-2.5	0.0	0.0	6.7	35.2
XF 353A/B	CNEL	95.4	35	296.8	-60.4	2.8	-6.0	-0.7		-2.4	0.0	0.0	6.7	35.4
XF 354A/B	CNEL	95.4	35	333.4	-61.5	2.9	-11.5	-0.5	0.00	-1.6	0.0	0.0	6.7	29.9
XF 503	CNEL	113.0	21	223.9	-58.0	2.8	-14.3	-0.8	-0.52	-3.0	0.0	0.0	6.7	45.8
XF - 1601	CNEL	96.6		170.6	-55.6	2.7	-7.7	-0.3		-1.2	0.0	0.0	6.7	41.1
XF - 1602	CNEL	96.6		167.2	-55.5	2.7	-9.0	-0.3		-1.1	0.0	0.0	6.7	40.2
XF Module 1510	CNEL	108.3		183.9	-56.3	2.8	-13.1	-0.7	-0.31	-3.0	0.0	0.0	6.7	44.4
XF Module 1519	CNEL	109.0		179.9	-56.1	2.8	-12.9	-0.7	-0.03	-3.3	0.0	0.0	6.7	45.4
xxxx xxxx xxxx xxxx	CNEL		606								11.2			34.7
xxxx xxxx xxxx xxxx	CNEL		606								10.8			34.5
xxxx xxxx xxxx xxxx	CNEL		917								3.8			24.7
xxxx xxxx xxxx xxxx	CNEL		917								3.8			25.0
xxxx xxxx xxxx xxxx	CNEL		608								3.5			36.8
xxxx xxxx xxxx xxxx	CNEL		608								3.7			36.9
xxxx xxxx xxxx xxxx	CNEL		228								4.7			22.2
xxxx xxxx xxxx xxxx	CNEL		520								8.0			41.1
xxxx xxxx xxxx xxxx	CNEL		1341								5.1			47.9
xxxx xxxx xxxx xxxx	CNEL		450								2.5			26.4
Receiver MH-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 57.8 dB(A) Ld 7-19 dB(A) Leq,N 57.7 dB(A) Le 19-22 dB(A) CNEL 64.4 dB(A) Lmax day hr dB(A) Ld 7-1														
ID Fan Motor	CNEL	104.4	2	134.6	-53.6	2.9	-16.2	-0.8		0.0	3.9	0.0	6.7	47.3
18-1855 A/B	CNEL	98.8		220.6	-57.9	4.5	-22.8	-0.9		0.0	0.0	0.0	6.7	28.4
18-1856 A/B	CNEL	98.8		221.3	-57.9	4.5	-18.8	-0.7		0.0	0.0	0.0	6.7	32.6
18-1857 A/B	CNEL	98.8		220.2	-57.8	4.5	-23.5	-0.9		0.0	0.0	0.0	6.7	27.7
18-1858 A/B	CNEL	98.8		220.1	-57.8	4.2	-21.3	-0.7		0.0	0.1	0.0	6.7	29.8
18-PK 1802 Air Compressor Package	CNEL	103.1		234.5	-58.4	4.7	-4.7	-0.7		0.0	0.0	0.0	6.7	50.6
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	297.8	-60.5	4.6	-18.5	-1.0	-0.06	0.0	0.0	-4.8	1.0	29.9
Air Compressor C 1	CNEL	110.0	5	207.4	-57.3	4.2	-22.2	-0.7		0.0	2.5	0.0	6.7	43.2
Air Compressor Pump	CNEL	100.3		237.9	-58.5	4.4	-23.9	-2.4		0.0	0.0	0.0	6.7	26.5
Blower F 401	CNEL	113.0		265.8	-59.5	4.1	-15.4	-0.3	-0.28	0.0	0.0	0.0	6.7	48.3
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	360.6	-62.1	4.8	-13.3	-0.7	-1.66	0.0	1.2	0.0	6.7	33.4
Boiler Feed Water Pump A	CNEL	97.1	3	197.1	-56.9	4.1	-4.8	-1.1		0.0	0.0	0.0	6.7	45.1
Boiler Feed Water Pump B	CNEL	97.1	3	200.5	-57.0	4.1	-4.9	-1.1		0.0	0.0	0.0	6.7	44.8
C370 A Motor	CNEL	103.6	3	195.0	-56.8	3.0	-21.6	-0.8		0.0	0.3	0.0	6.7	34.4
C370 B Motor	CNEL	108.6	3	192.5	-56.7	3.0	-20.7	-0.7		0.0	0.1	0.0	6.7	40.3
C370A	CNEL	103.8	5	190.8	-56.6	3.1	-21.6	-0.8		0.0	0.0	0.0	6.7	34.6
C370B	CNEL	103.8	5	188.1	-56.5	3.0	-20.8	-0.7		0.0	0.0	0.0	6.7	35.5
C-270 A	CNEL	106.3	6	296.2	-60.4	4.2	-4.7	-2.0	-0.65	0.0	0.0	0.0	6.7	49.5
C-270 B	CNEL	106.3	6	295.4	-60.4	4.1	-6.7	-1.5	-0.25	0.0	0.0	0.0	6.7	48.4
C-270 C	CNEL	106.3	6	294.5	-60.4	4.1	-9.4	-1.2		0.0	0.2	0.0	6.7	46.4
C-301 Compressor	CNEL	106.8	3	276.0	-59.8	4.0	-4.7	-1.9	-0.13	0.0	0.0	0.0	6.7	51.1
C-301 Motor	CNEL	106.8	4	275.0	-59.8	4.0	-4.7	-2.7	-0.13	0.0	0.0	0.0	6.7	50.3
C-351 Compressor	CNEL	106.8	4	294.2	-60.4	4.1	-5.2	-1.6	-0.51	0.0	0.0	0.0	6.7	49.9
C-351 Motor	CNEL	106.8	5	298.9	-60.5	3.9	-4.5	-2.7	-0.65	0.0	0.0	0.0	6.7	49.1
Cars Pumping 6 times in during delivery	CNEL	134.7	361	302.2	-60.6	4.7	-15.9	-0.4	-0.17	0.0	0.0	-35.6	0.0	26.8
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	259.5	-59.3	3.8	-19.3	-0.6	-0.71	2.1	0.0	0.0	6.7	37.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	253.2	-59.1	3.7	-16.7	-0.6	-0.54	0.0	0.0	0.0	6.7	34.0
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	261.1	-59.3	3.7	-14.5	-0.5	-0.30	3.0	0.0	0.0	6.7	45.3
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	268.8	-59.6	3.8	-21.2	-0.7	-0.61	-7.3	0.0	0.0	6.7	31.7
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	256.4	-59.2	3.7	-20.5	-0.7	-0.85	-7.3	0.0	0.0	6.7	25.6
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	273.9	-59.7	3.8	-21.0	-0.9	-0.29	-7.8	0.0	0.0	6.7	21.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	203.3	-57.2	3.5	-13.8	-0.5		2.6	0.0	0.0	6.7	39.2
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	211.8	-57.5	3.5	-19.1	-0.7	-0.02	-7.7	0.0	0.0	6.7	23.1
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	188.8	-56.5	3.1	-4.9	-1.3		2.9	0.0	0.0	6.7	50.6
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	199.8	-57.0	3.3	-21.2	-0.8		-7.6	2.0	0.0	6.7	26.2
Cooling Tower M 512	CNEL	95.7		212.4	-57.5	4.2	-24.0	-1.0		0.0	0.0	0.0	6.7	24.1
Cooling Tower M 513	CNEL	95.7		213.4	-57.6	4.1	-23.9	-1.0		0.0	0.0	0.0	6.7	24.0
Cooling Tower M 514	CNEL	95.7		211.5	-57.5	4.2	-24.0	-1.0		0.0	0.2	0.0	6.7	24.2
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	170.0	-55.6	2.8	-5.9	-0.6		-2.6	0.0	0.0	6.7	40.6
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	125.7	-53.0	2.9	-11.1	0.0		0.0	0.1	0.0	6.7	41.0
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	123.5	-52.8	2.9	-13.5	0.0		0.0	0.4	0.0	6.7	36.8
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	125.7	-53.0	2.8	-11.1	0.0		0.0	0.2	0.0	6.7	39.0
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	127.8	-53.1	2.9	-13.3	0.0		0.0	0.2	0.0	6.7	36.5
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	125.6	-53.0	2.9	-13.0	0.0		0.0	0.2	0.0	6.7	39.1
FD Motor	CNEL	103.3	2	125.8	-53.0	2.9	-23.8	-1.3		0.0	3.0	0.0	6.7	37.8
Feed Compressor -B Motor	CNEL	103.8	5	198.1	-56.9	3.1	-21.7	-1.5		0.0	0.0	0.0	6.7	33.5
Feed Compressor-A Compressor	CNEL	104.0	5	194.0	-56.8	3.3	-22.3	-0.9		0.0	0.0	0.0	6.7	33.9
Feed Compressor-A Motor	CNEL	103.8	6	199.2	-57.0	3.1	-23.2	-1.7		0.0	0.0	0.0	6.7	31.7
Feed Compressor-B Compressor	CNEL	104.0	7	192.2	-56.7	3.2	-20.7	-0.8		0.0	0.0	0.0	6.7	35.7
H2S Compressor 18-C-271	CNEL	105.3	6	223.6	-58.0	3.9	-19.6	-0.8	-0.23	0.0	0.0	0.0	6.7	37.4
Heater # 5-Heater	CNEL	91.1	13	356.5	-62.0	4.8	-18.4	-0.8	-1.61	0.0	3.1	0.0	6.7	25.8
Heater # 5-Heater	CNEL	91.1	13	355.3	-62.0	4.8	-17.0	-0.7	-1.57	0.0	0.1	0.0	6.7	24.4
Heater # 5-Heater	CNEL	91.1	13	357.8	-62.1	4.8	-19.2	-0.8	-1.61	0.0	4.8	0.0	6.7	26.7
Hydro Heater H-402	CNEL	98.1		231.2	-58.3	4.2	-15.2	-0.4	-0.41	0.0	0.0	0.0	6.7	34.7
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	136.7	-53.7	3.1	-7.6	0.0		0.0	0.0	0.0	6.7	35.4
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	139.0	-53.9	3.1	-8.7	0.0		0.0	0.0	0.0	6.7	34.5
ID Fan-ID Fan - North	CNEL	92.2	8	136.0	-53.7	3.1	-3.5	0.0		0.0	0.0	0.0	6.7	44.8
ID Fan-ID Fan - North 2	CNEL	91.4	7	137.2	-53.7	3.1	-3.4	0.0		0.0	0.0	0.0	6.7	44.1
ID Fan-ID Fan - South	CNEL	92.3	9	139.2	-53.9	3.1	-9.0	0.0		0.0	0.0	0.0	6.7	39.2
ID Fan-ID Fan - South 2	CNEL	91.4	7	138.7	-53.8	3.1	-8.9	0.0		0.0	0.0	0.0	6.7	38.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	137.7	-53.8	2.9	-2.1	0.0		0.0	0.0	0.0	6.7	47.7
Motor & Pump P 56A/B	CNEL	93.7		226.8	-58.1	4.3	-20.6	-1.2	-0.55	0.0	0.0	0.0	6.7	24.1
Motor & Pump P 120/121	CNEL	96.2	2	212.7	-57.5	4.2	-20.0	-0.7	-0.15	0.0	2.1	0.0	6.7	30.7
Motor & Pump P 211/212	CNEL	93.7		257.8	-59.2	4.6	-20.5	-1.2	-1.12	0.0	0.0	0.0	6.7	22.9
Motor & Pump P 215/214	CNEL	94.6		254.8	-59.1	4.6	-19.5	-1.1	-1.11	0.0	1.5	0.0	6.7	26.5
Motor & Pump P 216	CNEL	98.3		262.6	-59.4	4.5	-18.5	-1.1	-1.29	0.0	0.0	0.0	6.7	29.1
Motor & Pump P 217/218	CNEL	93.7		256.8	-59.2	4.8	-20.7	-1.2	-1.12	0.0	0.6	0.0	6.7	23.6
Motor & Pump P 300	CNEL	97.1	2	222.3	-57.9	4.3	-21.0	-0.8		0.0	2.4	0.0	6.7	30.7
Motor & Pump P 301	CNEL	102.1	2	223.1	-58.0	4.3	-18.6	-0.7		0.0	1.6	0.0	6.7	37.4
Motor & Pump P 302	CNEL	97.1	2	221.6	-57.9	4.3	-21.3	-0.8		0.0	1.0	0.0	6.7	29.1
Motor & Pump P 303	CNEL	97.1	2	221.0	-57.9	4.2	-21.1	-0.8		0.0	1.0	0.0	6.7	29.2
Motor & Pump P 305	CNEL	97.5	2	220.4	-57.9	4.2	-22.4	-0.9		0.0	0.7	0.0	6.7	28.0
Motor & Pump P 306	CNEL	112.6	4	216.6	-57.7	3.9	-22.0	-1.1		0.0	0.1	0.0	6.7	42.6
Motor & Pump P 307	CNEL	102.1	2	225.3	-58.0	4.3	-19.2	-0.7	-0.07	0.0	1.4	0.0	6.7	36.4
Motor & Pump P 309	CNEL	97.5	2	219.8	-57.8	4.2	-23.4	-0.9		0.0	0.8	0.0	6.7	27.1
Motor & Pump P 312	CNEL	101.5	2	236.2	-58.5	4.6	-19.7	-0.7	-0.26	0.0	0.0	0.0	6.7	33.6
Motor & Pump P 313	CNEL	101.5	2	237.2	-58.5	4.6	-20.6	-0.8	-0.26	0.0	0.3	0.0	6.7	32.9
Motor & Pump P 315	CNEL	102.9	2	240.9	-58.6	4.5	-19.4	-0.8	-0.27	0.0	0.1	0.0	6.7	35.1
Motor & Pump P 316	CNEL	102.9	2	242.1	-58.7	4.5	-19.5	-0.8	-0.28	0.0	0.0	0.0	6.7	34.9
Motor & Pump P 317	CNEL	102.9	2	243.1	-58.7	4.4	-19.9	-0.8	-0.28	0.0	0.0	0.0	6.7	34.3
Motor & Pump P 318	CNEL	100.2	1	239.4	-58.6	4.7	-19.6	-0.8	-0.27	0.0	0.7	0.0	6.7	33.0
Motor & Pump P 319	CNEL	100.2	1	238.6	-58.5	4.7	-19.7	-0.8	-0.27	0.0	0.8	0.0	6.7	33.0
Motor & Pump P 327	CNEL	111.2	3	214.3	-57.6	4.2	-22.7	-1.3		0.0	1.0	0.0	6.7	41.5
Motor & Pump P 328	CNEL	109.9	5	218.9	-57.8	4.0	-23.2	-0.9		0.0	0.4	0.0	6.7	39.2
Motor & Pump P 329	CNEL	110.2	5	217.7	-57.7	4.0	-23.4	-0.9		0.0	0.1	0.0	6.7	39.0
Motor & Pump P 451	CNEL	93.7		235.2	-58.4	4.3	-22.5	-1.5		0.0	0.0	0.0	6.7	22.2
Motor & Pump P 453	CNEL	93.7		241.7	-58.7	4.4	-23.6	-1.7		0.0	0.5	0.0	6.7	21.2
Motor & Pump P 454	CNEL	93.7		236.0	-58.4	4.3	-19.8	-1.0	-0.21	0.0	0.0	0.0	6.7	25.2
Motor & Pump P 457	CNEL	93.7		242.8	-58.7	4.4	-22.0	-1.3		0.0	0.0	0.0	6.7	22.8
Motor & Pump P 458	CNEL	93.7		234.4	-58.4	4.3	-22.5	-1.5		0.0	0.1	0.0	6.7	22.3
Motor & Pump P 459	CNEL	93.7		235.3	-58.4	4.3	-19.7	-1.0	-0.24	0.0	0.0	0.0	6.7	25.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		204.9	-57.2	4.2	-20.7	-1.0	-0.39	0.0	3.2	0.0	6.7	30.9
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		203.8	-57.2	4.2	-20.7	-1.1	-0.39	0.0	3.1	0.0	6.7	30.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		175.8	-55.9	4.0	-23.9	-1.4	-0.13	0.0	0.0	0.0	6.7	24.7
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		175.1	-55.9	4.0	-24.0	-1.4	-0.09	0.0	0.0	0.0	6.7	24.7
Motor & Pump P 1601 A	CNEL	96.3	2	184.5	-56.3	3.7	-22.0	-1.1		0.0	14.9	0.0	6.7	42.2
Motor & Pump P 1601 B	CNEL	96.3	2	183.5	-56.3	3.7	-22.1	-1.1		0.0	15.0	0.0	6.7	42.2
Motor & Pump P 1602 A	CNEL	96.3	2	182.8	-56.2	3.7	-22.1	-1.1		0.0	14.7	0.0	6.7	41.9
Motor & Pump P 1602 B	CNEL	96.5	2	181.8	-56.2	3.7	-22.2	-1.1		0.0	11.7	0.0	6.7	39.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	197.7	-56.9	4.2	-22.1	-1.1	-0.23	0.0	0.0	0.0	6.7	27.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	194.4	-56.8	4.2	-21.5	-1.0	-0.23	0.0	0.5	0.0	6.7	28.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	192.8	-56.7	4.2	-21.1	-1.0	-0.23	0.0	3.0	0.0	6.7	31.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	202.4	-57.1	4.2	-21.5	-1.2	-0.24	0.0	3.2	0.0	6.7	30.7
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	201.2	-57.1	4.2	-21.3	-1.2	-0.27	0.0	1.7	0.0	6.7	29.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	184.3	-56.3	4.1	-22.3	-1.1	-0.03	0.0	2.5	0.0	6.7	29.9
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	186.0	-56.4	4.1	-22.3	-1.1	-0.09	0.0	5.0	0.0	6.7	32.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	189.0	-56.5	4.1	-21.6	-1.1	-0.21	0.0	1.4	0.0	6.7	29.1
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	187.7	-56.5	4.1	-22.0	-1.2	-0.18	0.0	3.6	0.0	6.7	30.9
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	184.1	-56.3	3.5	-21.2	-0.7		0.0	7.7	0.0	6.7	43.8
P-2 A/B	CNEL	98.5		362.2	-62.2	5.2	-15.3	-1.1		0.0	0.0	0.0	6.7	31.8
P-50 A/B	CNEL	98.1		324.9	-61.2	5.1	-23.3	-1.2	-0.55	0.0	0.0	0.0	6.7	23.6
P-51 A/B	CNEL	98.1		328.6	-61.3	5.1	-17.3	-1.1	-0.55	0.0	0.0	0.0	6.7	29.7
P-060 A/B	CNEL	98.1		315.5	-61.0	5.1	-16.2	-0.9	-0.50	0.0	0.0	0.0	6.7	31.3
P-63	CNEL	98.5		356.1	-62.0	5.2	-18.4	-1.1	-0.44	0.0	0.1	0.0	6.7	28.4
P-70 A/B	CNEL	98.1		319.6	-61.1	5.1	-17.4	-1.0	-0.51	0.0	0.0	0.0	6.7	30.0
P-73 A/B	CNEL	98.5		360.0	-62.1	5.2	-17.6	-1.1		0.0	0.0	0.0	6.7	29.5
P-251 A/B	CNEL	98.2		271.1	-59.7	5.0	-22.3	-1.0	-0.46	0.0	0.0	0.0	6.7	26.4
P-252 A/B	CNEL	98.2		260.4	-59.3	5.0	-21.1	-0.8	-0.21	0.0	0.0	0.0	6.7	28.4
P-253	CNEL	98.2		260.6	-59.3	5.0	-22.2	-0.9	-0.21	0.0	0.1	0.0	6.7	27.3
P-254 A/B	CNEL	98.2		271.3	-59.7	5.0	-22.1	-1.0	-0.45	0.0	0.1	0.0	6.7	26.8
P-255 A/B	CNEL	98.2		271.2	-59.7	5.0	-21.7	-0.9	-0.45	0.0	0.0	0.0	6.7	27.1
P-255 A/B	CNEL	98.2		271.1	-59.7	5.0	-21.3	-0.9	-0.44	0.0	0.0	0.0	6.7	27.6
P-256 A/B	CNEL	98.2		271.1	-59.7	5.0	-20.9	-0.9	-0.46	0.0	0.0	0.0	6.7	28.0
P-259 A/B	CNEL	98.2		271.1	-59.7	5.0	-22.3	-1.0	-0.45	0.0	0.0	0.0	6.7	26.5
P-260	CNEL	99.1		260.6	-59.3	5.0	-23.6	-1.1	-0.20	0.0	0.0	0.0	6.7	26.5
P-261 A/B	CNEL	98.0		263.3	-59.4	5.0	-23.7	-1.1	-0.20	0.0	0.0	0.0	6.7	25.2
P-262 A/B	CNEL	99.1		261.2	-59.3	5.0	-23.7	-1.1	-0.20	0.0	0.3	0.0	6.7	26.6
P-263 A/B	CNEL	99.4		260.7	-59.3	5.0	-23.7	-1.1	-0.20	0.0	0.0	0.0	6.7	26.7
P-270 A/B	CNEL	98.5		274.8	-59.8	5.0	-4.7	-1.3	-0.21	0.0	0.0	0.0	6.7	44.1
P-271 A/B	CNEL	98.2		272.0	-59.7	5.0	-11.1	-0.9	-0.44	0.0	0.0	0.0	6.7	37.7
P-272 A/B	CNEL	98.2		271.6	-59.7	5.0	-19.9	-0.8	-0.44	0.0	0.0	0.0	6.7	29.0
P-273 A/B	CNEL	98.5		274.2	-59.8	5.0	-22.9	-1.0	-0.10	0.0	0.3	0.0	6.7	26.7
P-275 A/B/C	CNEL	98.2		261.1	-59.3	5.0	-4.8	-1.3	-0.19	0.0	0.0	0.0	6.7	44.2
P-305	CNEL	99.3		334.4	-61.5	5.2	-7.5	-1.2	-1.31	0.0	0.0	0.0	6.7	39.6
P-306	CNEL	100.8		336.8	-61.5	5.2	-4.7	-1.6	-1.51	0.0	0.0	0.0	6.7	43.3
P-309	CNEL	99.3		334.9	-61.5	5.2	-4.7	-1.6	-1.50	0.0	0.0	0.0	6.7	41.9
P-328	CNEL	100.8		338.4	-61.6	5.2	-10.3	-1.1	-1.57	0.0	4.6	0.0	6.7	42.7
P-329	CNEL	100.8		337.5	-61.6	5.2	-10.3	-1.1	-1.57	0.0	4.6	0.0	6.7	42.7
P-353	CNEL	98.5		321.2	-61.1	4.8	-4.7	-1.5	-1.19	0.0	0.0	0.0	6.7	41.5
P-358 A/B	CNEL	99.4		303.1	-60.6	5.1	-4.5	-1.4	-0.66	0.0	0.0	0.0	6.7	43.9
P-359 A/B	CNEL	99.4		307.7	-60.8	5.1	-4.5	-1.4	-0.76	0.0	0.2	0.0	6.7	43.8
P-360 A/B	CNEL	99.4		316.6	-61.0	5.1	-4.5	-1.5	-0.97	0.0	0.2	0.0	6.7	43.4
P-361A	CNEL	98.1		296.5	-60.4	4.7	-22.2	-1.1	-0.28	0.0	0.0	0.0	6.7	25.5
P-371 A/B	CNEL	98.0		207.1	-57.3	4.3	-22.9	-0.8		0.0	0.1	0.0	6.7	28.0
P-373 A/B	CNEL	98.0		197.2	-56.9	4.2	-23.1	-0.8		0.0	0.7	0.0	6.7	28.7
P-374 A/B	CNEL	98.0		198.8	-57.0	4.2	-22.8	-0.8		0.0	10.3	0.0	6.7	38.6
P-375 A/B	CNEL	98.0		202.7	-57.1	4.2	-23.0	-0.8		0.0	0.0	0.0	6.7	28.0
P-376	CNEL	98.0		200.0	-57.0	4.2	-22.8	-0.8		0.0	9.6	0.0	6.7	37.9
P-376 A/B	CNEL	98.0		195.3	-56.8	4.2	-22.6	-0.7		0.0	0.6	0.0	6.7	29.3
P-377	CNEL	98.0		201.0	-57.1	4.2	-23.0	-0.8		0.0	9.4	0.0	6.7	37.4
P-1101 A	CNEL	98.9		340.8	-61.6	4.9	-18.9	-1.1		0.0	0.0	0.0	6.7	28.8
P-1103	CNEL	98.9		340.0	-61.6	4.9	-16.0	-1.0		0.0	0.0	0.0	6.7	31.8
P-1105 A/B/C	CNEL	98.9		343.4	-61.7	4.9	-17.1	-1.1		0.0	0.0	0.0	6.7	30.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1800	CNEL	98.9		393.2	-62.9	5.2	-17.6	-1.2		0.0	2.8	0.0	6.7	31.9
P-1801	CNEL	98.9		417.3	-63.4	5.3	-24.8	-1.9		0.0	3.5	0.0	6.7	24.3
P-1802	CNEL	98.9		415.2	-63.4	5.3	-24.8	-1.9		0.0	2.4	0.0	6.7	23.2
P-1803	CNEL	99.1		291.9	-60.3	5.0	-12.9	-0.9		0.0	0.6	0.0	6.7	37.3
P-1804	CNEL	99.1		312.0	-60.9	5.1	-23.4	-1.3		0.0	0.0	0.0	6.7	25.3
P-1805	CNEL	99.1		313.6	-60.9	5.1	-15.8	-1.0		0.0	0.0	0.0	6.7	33.1
P-1806	CNEL	99.1		280.4	-59.9	5.0	-16.0	-0.8		0.0	0.0	0.0	6.7	34.1
P-1809 A	CNEL	98.9		395.2	-62.9	5.2	-19.9	-1.2		0.0	0.0	0.0	6.7	26.8
P-1810 A/B/C	CNEL	99.0		305.0	-60.7	5.1	-24.8	-1.4		0.0	0.0	0.0	6.7	23.8
P-1811 A/B	CNEL	99.1		283.6	-60.0	5.0	-15.4	-0.8		0.0	0.1	0.0	6.7	34.6
P-1811 A/B	CNEL	99.1		315.7	-61.0	5.1	-23.9	-1.3		0.0	6.8	0.0	6.7	31.4
P-1847 A/B	CNEL	99.4		230.9	-58.3	4.8	-19.1	-0.7		0.0	0.0	0.0	6.7	32.7
P-1849 A/B	CNEL	99.4		235.0	-58.4	4.8	-19.4	-0.7		0.0	0.1	0.0	6.7	32.4
P-1853	CNEL	99.1		313.0	-60.9	5.1	-16.2	-0.9	-0.76	0.0	0.0	0.0	6.7	32.2
Piping Furnace Tanks	CNEL	87.1	72	150.9	-54.6	2.8	-23.6	-4.1		0.0	7.2	0.0	6.7	21.6
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	166.9	-55.4	2.9	-24.0	-4.5		0.0	0.4	0.0	6.7	24.4
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	152.1	-54.6	2.9	-24.8	-1.5		0.0	0.3	0.0	6.7	43.5
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	152.3	-54.6	2.9	-24.9	-5.0		0.0	1.0	0.0	6.7	41.3
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	308.3	-60.8	3.4	-23.3	-1.2		0.0	0.4	0.0	6.7	35.7
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	277.2	-59.8	3.3	-15.9	-0.9		0.0	0.0	0.0	6.7	44.5
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	263.7	-59.4	3.3	-14.5	-0.8		0.0	2.0	0.0	6.7	41.3
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	305.8	-60.7	3.4	-22.9	-1.2		0.0	0.9	0.0	6.7	37.3
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	276.4	-59.8	3.3	-21.5	-1.0		0.0	1.0	0.0	6.7	32.6
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	263.7	-59.4	3.3	-15.0	-0.8		0.0	0.1	0.0	6.7	38.5
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	267.0	-59.5	3.3	-12.6	-0.8		0.0	0.2	0.0	6.7	43.9
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	285.0	-60.1	3.3	-20.4	-1.0		0.0	0.6	0.0	6.7	35.2
Pre-Treat Train-Roof 01	CNEL	113.1	2037	289.4	-60.2	2.8	-15.9	-0.9		0.0	0.5	0.0	6.7	46.1
PSA Pipe 3" Lagging	CNEL	80.6	11	145.2	-54.2	2.8	-23.7	-1.3		0.0	1.1	0.0	6.7	12.0
PSA Skid Additional Piping w NC	CNEL	116.6	57	153.5	-54.7	2.9	-24.8	-1.5		0.0	0.2	0.0	6.7	45.3
Reformer-Burner Reformer East	CNEL	97.3	269	130.5	-53.3	2.8	-17.8	-0.6		0.0	0.1	0.0	6.7	38.2
Reformer-Burner Reformer North	CNEL	95.9	192	138.3	-53.8	2.8	-24.1	-1.1		0.0	0.0	0.0	6.7	26.3
Reformer-Burner Reformer South	CNEL	95.8	191	136.2	-53.7	2.8	-16.7	-0.6		0.0	0.4	0.0	6.7	37.8
Reformer-Burner Reformer West	CNEL	97.3	268	144.0	-54.2	2.8	-23.6	-1.1		0.0	0.0	0.0	6.7	30.9
RFG A from battery to process	CNEL	99.4	87	164.2	-55.3	2.9	-24.0	-4.5		0.0	4.7	0.0	6.7	29.8
RFG A from battery to process w NC	CNEL	115.2	42	149.8	-54.5	2.9	-24.9	-4.9		0.0	0.7	0.0	6.7	41.1
Stack Noise	CNEL	108.4		141.1	-54.0	2.8	-1.1	-1.4		-8.1	0.0	0.0	6.7	53.3
Steam Turbine-Facade 01	CNEL	99.6	29	171.7	-55.7	3.5	-24.6	-3.6		0.0	0.0	0.0	6.7	25.9
Steam Turbine-Facade 02	CNEL	96.2	13	168.2	-55.5	3.5	-24.5	-3.5		0.0	0.0	0.0	6.7	22.9
Steam Turbine-Facade 03	CNEL	99.6	29	168.3	-55.5	3.5	-24.5	-3.5		0.0	0.0	0.0	6.7	26.2
Steam Turbine-Facade 04	CNEL	96.2	13	171.8	-55.7	3.5	-24.6	-3.7		0.0	0.0	0.0	6.7	22.4
Steam Turbine-Roof 01	CNEL	99.7	30	170.0	-55.6	2.9	-24.1	-3.2		0.0	0.0	0.0	6.7	26.4
Tank Farm Pump 1	CNEL	99.0	3	206.2	-57.3	4.3	-16.9	-1.0		0.0	0.1	0.0	6.7	34.9
Tank Farm Pump 2	CNEL	99.0	3	219.8	-57.8	4.3	-18.2	-1.0		0.0	0.0	0.0	6.7	33.0
Tank Farm Pump 3	CNEL	99.0	3	224.0	-58.0	4.4	-16.7	-1.0		0.0	0.0	0.0	6.7	34.4
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	363.7	-62.2	3.9	-8.7	-3.5	-0.07	0.0	0.4	-13.8	0.0	28.4
XF-1502 Splitter Area 1	CNEL	104.5		190.1	-56.6	2.8	-9.3	-0.8	-0.07	-3.5	0.0	0.0	6.7	43.7
XF-1502 Splitter Area 2	CNEL	104.5		192.7	-56.7	2.8	-6.8	-1.0	-0.05	-3.8	0.0	0.0	6.7	45.5
XF-1504 Splitter Area 1	CNEL	104.5		186.9	-56.4	2.8	-6.7	-1.0	-0.03	-3.9	0.0	0.0	6.7	46.0
XF-1504 Splitter Area 2	CNEL	104.5		189.5	-56.5	2.8	-17.1	-0.6	-0.03	-2.6	0.0	0.0	6.7	37.1
XF 251, 250, 271, 270	CNEL	101.1	128	266.8	-59.5	2.8	-3.5	-0.8		-2.6	0.0	0.0	6.7	44.3
XF 260, 261A, 261 B	CNEL	99.9	97	267.6	-59.5	2.8	-17.4	-0.4		-1.4	0.2	0.0	6.7	30.8
XF 304, XF 321	CNEL	110.5	56	229.1	-58.2	2.5	-16.6	-0.4	-0.04	-1.6	0.1	0.0	6.7	43.0
XF 313, XF 314	CNEL	113.0	18	217.2	-57.7	2.5	-18.3	-0.5		-2.7	0.0	0.0	6.7	42.9
XF 335-1, XF 335-2	CNEL	113.4	54	223.8	-58.0	2.5	-17.8	-0.5	-0.05	-1.7	0.0	0.0	6.7	44.6
XF 353A/B	CNEL	95.4	35	313.3	-60.9	2.8	-3.3	-1.7	-0.05	-3.1	0.0	0.0	6.7	35.9
XF 353A/B	CNEL	95.4	35	289.0	-60.2	2.8	-3.2	-1.6		-3.1	0.0	0.0	6.7	36.8
XF 354A/B	CNEL	95.4	35	327.7	-61.3	2.9	-3.4	-1.7	0.00	-3.0	0.0	0.0	6.7	35.5
XF 503	CNEL	113.0	21	240.9	-58.6	2.8	-14.2	-0.8	-0.50	-2.9	0.0	0.0	6.7	45.5
XF - 1601	CNEL	96.6		184.3	-56.3	2.7	-8.1	-0.3		-1.3	0.0	0.0	6.7	40.0
XF - 1602	CNEL	96.6		180.5	-56.1	2.7	-7.1	-0.3		-1.4	0.0	0.0	6.7	41.0
XF Module 1510	CNEL	108.3		199.5	-57.0	2.8	-7.9	-0.9	-0.31	-3.7	0.0	0.0	6.7	47.9
XF Module 1519	CNEL	109.0		195.9	-56.8	2.8	-10.7	-0.8	-0.30	-3.3	0.2	0.0	6.7	46.7
xxxx xxxx xxxx xxxx	CNEL		606								12.9			35.5
xxxx xxxx xxxx xxxx	CNEL		606								12.7			35.4
xxxx xxxx xxxx xxxx	CNEL		917								3.4			27.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	CNEL		917								3.3			27.5	
xxxx xxxx xxxx xxxx	CNEL		608								3.2			35.0	
xxxx xxxx xxxx xxxx	CNEL		608								3.4			35.1	
xxxx xxxx xxxx xxxx	CNEL		228								9.0			20.2	
xxxx xxxx xxxx xxxx	CNEL		520								11.2			41.5	
xxxx xxxx xxxx xxxx	CNEL		1341								2.9			48.5	
xxxx xxxx xxxx xxxx	CNEL		450								5.6			21.3	
Receiver MH-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 59.3 dB(A)			Ld 7-19 dB(A)		Leq,N 59.3 dB(A)		Le 19-22 dB(A)		CNEL 66.0 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	133.4	-53.5	2.9	-16.3	-0.7		0.0	4.6	0.0	6.7	48.0	
18-1855 A/B	CNEL	98.8		220.3	-57.9	4.5	-18.3	-0.7		0.0	0.1	0.0	6.7	33.2	
18-1856 A/B	CNEL	98.8		220.4	-57.9	4.5	-18.0	-0.7		0.0	0.3	0.0	6.7	33.7	
18-1857 A/B	CNEL	98.8		220.3	-57.9	4.5	-20.1	-0.7		0.0	0.1	0.0	6.7	31.4	
18-1858 A/B	CNEL	98.8		220.6	-57.9	4.2	-10.4	-0.7		0.0	0.0	0.0	6.7	40.7	
18-PK 1802 Air Compressor Package	CNEL	103.1		233.1	-58.3	4.7	-13.2	-0.4		0.0	0.0	0.0	6.7	42.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	305.4	-60.7	4.6	-14.1	-2.5	-0.13	0.0	0.0	-4.8	1.0	32.6	
Air Compressor C 1	CNEL	110.0	5	223.1	-58.0	4.2	-22.1	-0.7		0.0	2.6	0.0	6.7	42.8	
Air Compressor Pump	CNEL	100.3		242.9	-58.7	4.4	-23.6	-2.3		0.0	0.0	0.0	6.7	26.7	
Blower F 401	CNEL	113.0		277.5	-59.9	4.2	-18.2	-0.3	-0.26	0.0	0.0	0.0	6.7	45.2	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	356.9	-62.0	4.7	-12.4	-0.7	-1.63	0.0	1.1	0.0	6.7	34.3	
Boiler Feed Water Pump A	CNEL	97.1	3	196.0	-56.8	4.1	-6.4	-0.9		0.0	0.6	0.0	6.7	44.3	
Boiler Feed Water Pump B	CNEL	97.1	3	199.4	-57.0	4.1	-6.2	-0.9		0.0	0.3	0.0	6.7	44.1	
C370 A Motor	CNEL	103.6	3	201.0	-57.1	3.1	-19.8	-0.7		0.0	0.1	0.0	6.7	36.0	
C370 B Motor	CNEL	108.6	3	197.6	-56.9	3.1	-19.1	-0.6		0.0	0.1	0.0	6.7	41.8	
C370A	CNEL	103.8	5	196.8	-56.9	3.2	-20.0	-0.7		0.0	0.0	0.0	6.7	36.1	
C370B	CNEL	103.8	5	193.4	-56.7	3.1	-19.3	-0.6		0.0	0.0	0.0	6.7	36.9	
C-270 A	CNEL	106.3	6	293.5	-60.3	4.2	-4.2	-2.1	-0.64	0.0	0.1	0.0	6.7	49.9	
C-270 B	CNEL	106.3	6	292.9	-60.3	4.1	-4.5	-2.0	-0.36	0.0	0.9	0.0	6.7	50.8	
C-270 C	CNEL	106.3	6	292.3	-60.3	4.1	-4.6	-2.0		0.0	0.2	0.0	6.7	50.4	
C-301 Compressor	CNEL	106.8	3	272.0	-59.7	4.0	-0.7	-2.1	-0.12	0.0	0.0	0.0	6.7	54.9	
C-301 Motor	CNEL	106.8	4	271.2	-59.7	4.0	-0.6	-3.1	-0.12	0.0	0.0	0.0	6.7	54.0	
C-351 Compressor	CNEL	106.8	4	290.3	-60.3	4.1	-5.2	-1.6	-0.51	0.0	0.0	0.0	6.7	50.1	
C-351 Motor	CNEL	106.8	5	295.0	-60.4	3.9	-4.5	-2.7	-0.64	0.0	0.0	0.0	6.7	49.2	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	311.0	-60.8	4.7	-12.2	-0.7	-0.19	0.0	0.0	-35.6	0.0	29.9	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	273.4	-59.7	3.8	-16.8	-0.6	-0.38	1.9	0.0	0.0	6.7	39.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	267.1	-59.5	3.8	-15.1	-0.6	-0.55	0.0	0.0	0.0	6.7	35.2	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	275.3	-59.8	3.8	-14.6	-0.5	-0.30	3.1	0.0	0.0	6.7	44.9	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	282.8	-60.0	3.9	-20.5	-0.7	-0.54	-7.1	0.0	0.0	6.7	32.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	270.3	-59.6	3.8	-18.0	-0.6	-0.48	-7.2	0.0	0.0	6.7	28.3	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	288.2	-60.2	3.9	-21.4	-1.0	-0.48	-7.8	0.0	0.0	6.7	20.1	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	215.0	-57.6	3.6	-16.5	-0.6		2.5	0.0	0.0	6.7	35.8	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	224.0	-58.0	3.6	-20.6	-0.8	-0.01	-7.7	3.7	0.0	6.7	24.6	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	199.3	-57.0	3.2	-17.1	-0.5		2.7	0.0	0.0	6.7	38.5	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	211.2	-57.5	3.4	-21.2	-0.8		-7.7	3.3	0.0	6.7	26.8	
Cooling Tower M 512	CNEL	95.7		224.1	-58.0	4.3	-24.0	-1.1		0.0	0.0	0.0	6.7	23.6	
Cooling Tower M 513	CNEL	95.7		225.2	-58.0	4.2	-23.9	-1.1		0.0	0.0	0.0	6.7	23.6	
Cooling Tower M 514	CNEL	95.7		223.1	-58.0	4.3	-24.0	-1.1		0.0	0.0	0.0	6.7	23.6	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	169.7	-55.6	2.8	-3.5	-0.6		-2.7	0.1	0.0	6.7	42.9	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	126.1	-53.0	2.9	-5.6	-0.1		0.0	0.3	0.0	6.7	46.6	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	124.0	-52.9	2.9	-6.8	-0.1		0.0	0.5	0.0	6.7	43.5	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	126.3	-53.0	2.8	-2.0	-0.1		0.0	0.3	0.0	6.7	48.1	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	128.3	-53.2	2.9	-6.9	0.0		0.0	0.2	0.0	6.7	42.9	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	126.3	-53.0	2.9	-4.9	-0.1		0.0	0.1	0.0	6.7	47.0	
FD Motor	CNEL	103.3	2	125.9	-53.0	2.9	-16.9	-0.9		0.0	5.0	0.0	6.7	47.0	
Feed Compressor -B Motor	CNEL	103.8	5	200.4	-57.0	3.1	-11.4	-1.2		0.0	0.0	0.0	6.7	44.0	
Feed Compressor-A Compressor	CNEL	104.0	5	197.6	-56.9	3.3	-19.2	-0.8		0.0	0.0	0.0	6.7	37.0	
Feed Compressor-A Motor	CNEL	103.8	6	202.7	-57.1	3.2	-19.9	-1.3		0.0	0.0	0.0	6.7	35.2	
Feed Compressor-B Compressor	CNEL	104.0	7	194.5	-56.8	3.3	-11.8	-0.8		0.0	0.0	0.0	6.7	44.6	
H2S Compressor 18-C-271	CNEL	105.3	6	238.2	-58.5	4.0	-19.6	-0.8	-0.23	0.0	0.0	0.0	6.7	36.8	
Heater # 5-Heater	CNEL	91.1	13	352.9	-61.9	4.8	-17.6	-0.7	-1.58	0.0	3.2	0.0	6.7	26.8	
Heater # 5-Heater	CNEL	91.1	13	351.9	-61.9	4.8	-14.3	-0.7	-1.59	0.0	0.1	0.0	6.7	27.1	
Heater # 5-Heater	CNEL	91.1	13	354.0	-62.0	4.8	-18.1	-0.7	-1.58	0.0	4.1	0.0	6.7	27.2	
Hydro Heater H-402	CNEL	98.1		243.9	-58.7	4.2	-17.8	-0.5	-0.33	0.0	0.0	0.0	6.7	31.6	
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	135.3	-53.6	2.9	-5.6	0.0		0.0	0.0	0.0	6.7	37.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	137.6	-53.8	2.9	-8.5	0.0		0.0	0.0	0.0	6.7	34.5
ID Fan-ID Fan - North	CNEL	92.2	8	134.8	-53.6	3.1	-3.4	0.0		0.0	0.0	0.0	6.7	45.0
ID Fan-ID Fan - North 2	CNEL	91.4	7	135.8	-53.6	3.1	-3.2	0.0		0.0	0.0	0.0	6.7	44.4
ID Fan-ID Fan - South	CNEL	92.3	9	138.1	-53.8	3.1	-8.7	0.0		0.0	0.0	0.0	6.7	39.6
ID Fan-ID Fan - South 2	CNEL	91.4	7	137.3	-53.7	3.1	-8.7	0.0		0.0	0.0	0.0	6.7	38.7
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	136.5	-53.7	2.9	-1.6	0.0		0.0	0.0	0.0	6.7	48.2
Motor & Pump P 56A/B	CNEL	93.7		240.3	-58.6	4.4	-21.2	-1.3	-0.53	0.0	0.0	0.0	6.7	23.0
Motor & Pump P 120/121	CNEL	96.2	2	228.0	-58.2	4.3	-21.4	-0.8	-0.18	0.0	0.0	0.0	6.7	26.7
Motor & Pump P 211/212	CNEL	93.7		271.0	-59.7	4.6	-21.8	-1.4	-0.45	0.0	0.8	0.0	6.7	22.5
Motor & Pump P 215/214	CNEL	94.6		268.1	-59.6	4.6	-19.2	-1.1	-1.08	0.0	1.9	0.0	6.7	26.9
Motor & Pump P 216	CNEL	98.3		276.0	-59.8	4.5	-17.9	-1.1	-1.26	0.0	0.0	0.0	6.7	29.4
Motor & Pump P 217/218	CNEL	93.7		270.0	-59.6	4.8	-22.6	-1.5	-0.65	0.0	1.6	0.0	6.7	22.3
Motor & Pump P 300	CNEL	97.1	2	237.9	-58.5	4.4	-20.9	-0.8		0.0	0.6	0.0	6.7	28.6
Motor & Pump P 301	CNEL	102.1	2	238.6	-58.5	4.4	-20.4	-0.8		0.0	0.8	0.0	6.7	34.3
Motor & Pump P 302	CNEL	97.1	2	237.1	-58.5	4.4	-19.4	-0.8		0.0	0.0	0.0	6.7	29.5
Motor & Pump P 303	CNEL	97.1	2	236.6	-58.5	4.3	-20.6	-0.8		0.0	0.7	0.0	6.7	28.9
Motor & Pump P 305	CNEL	97.5	2	236.0	-58.5	4.3	-22.1	-0.9		0.0	0.1	0.0	6.7	27.1
Motor & Pump P 306	CNEL	112.6	4	232.5	-58.3	4.0	-22.2	-1.1		0.0	0.1	0.0	6.7	41.7
Motor & Pump P 307	CNEL	102.1	2	240.6	-58.6	4.4	-20.8	-0.8	-0.12	0.0	1.9	0.0	6.7	34.7
Motor & Pump P 309	CNEL	97.5	2	235.5	-58.4	4.3	-23.3	-1.0		0.0	0.1	0.0	6.7	25.9
Motor & Pump P 312	CNEL	101.5	2	250.9	-59.0	4.6	-20.3	-0.8	-0.26	0.0	0.0	0.0	6.7	32.4
Motor & Pump P 313	CNEL	101.5	2	251.8	-59.0	4.6	-20.4	-0.8	-0.26	0.0	0.3	0.0	6.7	32.6
Motor & Pump P 315	CNEL	102.9	2	255.4	-59.1	4.5	-20.3	-0.8	-0.30	0.0	0.6	0.0	6.7	34.1
Motor & Pump P 316	CNEL	102.9	2	256.4	-59.2	4.6	-20.3	-0.8	-0.32	0.0	0.0	0.0	6.7	33.5
Motor & Pump P 317	CNEL	102.9	2	257.4	-59.2	4.5	-20.3	-0.8	-0.34	0.0	0.0	0.0	6.7	33.4
Motor & Pump P 318	CNEL	100.2	1	253.9	-59.1	4.7	-20.8	-0.8	-0.31	0.0	1.1	0.0	6.7	31.6
Motor & Pump P 319	CNEL	100.2	1	253.1	-59.1	4.7	-20.8	-0.8	-0.26	0.0	0.6	0.0	6.7	31.2
Motor & Pump P 327	CNEL	111.2	3	230.4	-58.2	4.3	-23.0	-1.4		0.0	1.1	0.0	6.7	40.6
Motor & Pump P 328	CNEL	109.9	5	234.6	-58.4	4.1	-23.1	-0.9		0.0	0.1	0.0	6.7	38.4
Motor & Pump P 329	CNEL	110.2	5	233.5	-58.4	4.1	-23.3	-0.9		0.0	0.1	0.0	6.7	38.5
Motor & Pump P 451	CNEL	93.7		247.6	-58.9	4.4	-20.5	-1.1	-0.08	0.0	2.0	0.0	6.7	26.2
Motor & Pump P 453	CNEL	93.7		253.6	-59.1	4.5	-21.8	-1.3		0.0	0.4	0.0	6.7	22.9
Motor & Pump P 454	CNEL	93.7		248.4	-58.9	4.4	-23.0	-1.7		0.0	0.0	0.0	6.7	21.2
Motor & Pump P 457	CNEL	93.7		254.6	-59.1	4.5	-21.9	-1.3		0.0	0.0	0.0	6.7	22.4
Motor & Pump P 458	CNEL	93.7		246.8	-58.8	4.4	-20.6	-1.1	-0.05	0.0	0.0	0.0	6.7	24.2
Motor & Pump P 459	CNEL	93.7		247.8	-58.9	4.4	-23.0	-1.7		0.0	0.0	0.0	6.7	21.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		217.9	-57.8	4.3	-20.7	-1.0	-0.38	0.0	1.4	0.0	6.7	28.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		216.9	-57.7	4.3	-18.8	-0.9	-0.38	0.0	0.9	0.0	6.7	30.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		189.9	-56.6	4.1	-24.0	-1.5	-0.15	0.0	0.1	0.0	6.7	24.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		189.3	-56.5	4.1	-24.0	-1.5	-0.10	0.0	0.1	0.0	6.7	24.1
Motor & Pump P 1601 A	CNEL	96.3	2	196.4	-56.9	3.9	-22.3	-1.2		0.0	1.9	0.0	6.7	28.4
Motor & Pump P 1601 B	CNEL	96.3	2	195.3	-56.8	3.8	-22.3	-1.2		0.0	1.9	0.0	6.7	28.4
Motor & Pump P 1602 A	CNEL	96.3	2	194.6	-56.8	3.8	-22.5	-1.2		0.0	2.0	0.0	6.7	28.3
Motor & Pump P 1602 B	CNEL	96.5	2	193.5	-56.7	3.8	-23.0	-1.3		0.0	0.3	0.0	6.7	26.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	210.4	-57.5	4.3	-21.6	-1.2	-0.22	0.0	0.0	0.0	6.7	27.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	207.3	-57.3	4.3	-21.7	-1.1	-0.22	0.0	0.9	0.0	6.7	28.1
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	205.8	-57.3	4.3	-21.4	-1.0	-0.22	0.0	1.4	0.0	6.7	29.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	215.5	-57.7	4.3	-4.7	-1.9	-0.35	0.0	0.1	0.0	6.7	43.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	214.4	-57.6	4.3	-21.3	-1.2	-0.22	0.0	0.8	0.0	6.7	28.1
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	197.2	-56.9	4.2	-22.1	-1.1	-0.03	0.0	1.4	0.0	6.7	28.5
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	199.0	-57.0	4.2	-7.3	-1.8	-0.09	0.0	0.1	0.0	6.7	41.2
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	202.2	-57.1	4.2	-22.3	-1.3	-0.20	0.0	1.6	0.0	6.7	27.9
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	200.8	-57.0	4.2	-8.2	-1.8	-0.15	0.0	0.1	0.0	6.7	40.1
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	199.4	-57.0	3.6	-21.9	-0.9		0.0	0.3	0.0	6.7	35.1
P-2 A/B	CNEL	98.5		354.4	-62.0	5.2	-16.6	-1.0		0.0	0.0	0.0	6.7	30.7
P-50 A/B	CNEL	98.1		318.2	-61.0	5.1	-23.1	-1.2	-0.61	0.0	0.0	0.0	6.7	23.9
P-51 A/B	CNEL	98.1		322.0	-61.1	5.1	-15.1	-1.0	-0.61	0.0	0.0	0.0	6.7	32.0
P-060 A/B	CNEL	98.1		308.6	-60.8	5.1	-16.6	-0.9	-0.56	0.0	0.0	0.0	6.7	31.0
P-63	CNEL	98.5		349.7	-61.9	5.2	-14.7	-1.1	-0.45	0.0	0.0	0.0	6.7	32.3
P-70 A/B	CNEL	98.1		312.8	-60.9	5.1	-16.5	-0.9	-0.57	0.0	0.0	0.0	6.7	31.0
P-73 A/B	CNEL	98.5		352.4	-61.9	5.2	-14.7	-1.1		0.0	0.0	0.0	6.7	32.7
P-251 A/B	CNEL	98.2		271.8	-59.7	5.0	-8.7	-0.9	-0.45	0.0	0.0	0.0	6.7	40.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-252 A/B	CNEL	98.2		260.8	-59.3	5.0	-4.7	-1.3	-0.20	0.0	0.0	0.0	6.7	44.4
P-253	CNEL	98.2		260.5	-59.3	5.0	-4.7	-1.3	-0.19	0.0	0.0	0.0	6.7	44.4
P-254 A/B	CNEL	98.2		271.2	-59.7	5.0	-4.6	-1.3	-0.43	0.0	0.0	0.0	6.7	43.8
P-255 A/B	CNEL	98.2		271.3	-59.7	5.0	-10.3	-0.9	-0.44	0.0	0.0	0.0	6.7	38.6
P-255 A/B	CNEL	98.2		272.2	-59.7	5.0	-6.0	-1.1	-0.45	0.0	0.0	0.0	6.7	42.7
P-256 A/B	CNEL	98.2		271.5	-59.7	5.0	-4.6	-1.3	-0.43	0.0	0.0	0.0	6.7	43.8
P-259 A/B	CNEL	98.2		272.0	-59.7	5.0	-4.9	-1.3	-0.44	0.0	0.0	0.0	6.7	43.6
P-260	CNEL	99.1		262.4	-59.4	5.0	-4.5	-1.3	-0.20	0.0	0.0	0.0	6.7	45.4
P-261 A/B	CNEL	98.0		266.6	-59.5	5.0	-23.2	-1.1	-0.21	0.0	0.0	0.0	6.7	25.7
P-262 A/B	CNEL	99.1		263.5	-59.4	5.0	-20.9	-0.9	-0.21	0.0	0.1	0.0	6.7	29.4
P-263 A/B	CNEL	99.4		262.7	-59.4	5.0	-4.7	-1.3	-0.19	0.0	0.0	0.0	6.7	45.5
P-270 A/B	CNEL	98.5		272.0	-59.7	5.0	-4.8	-1.3	-0.21	0.0	0.0	0.0	6.7	44.2
P-271 A/B	CNEL	98.2		271.2	-59.7	5.0	-7.5	-1.0	-0.43	0.0	0.0	0.0	6.7	41.3
P-272 A/B	CNEL	98.2		271.2	-59.7	5.0	-8.2	-1.0	-0.44	0.0	0.0	0.0	6.7	40.6
P-273 A/B	CNEL	98.5		271.6	-59.7	5.0	-4.7	-1.3	-0.13	0.0	0.0	0.0	6.7	44.3
P-275 A/B/C	CNEL	98.2		260.3	-59.3	5.0	-9.2	-0.9	-0.19	0.0	0.1	0.0	6.7	40.2
P-305	CNEL	99.3		331.4	-61.4	5.2	-4.5	-1.6	-1.42	0.0	0.0	0.0	6.7	42.2
P-306	CNEL	100.8		333.3	-61.5	5.2	-4.9	-1.3	-1.52	0.0	0.0	0.0	6.7	43.5
P-309	CNEL	99.3		331.8	-61.4	5.2	-4.8	-1.6	-1.48	0.0	0.0	0.0	6.7	41.9
P-328	CNEL	100.8		334.7	-61.5	5.2	-9.3	-1.1	-1.55	0.0	2.9	0.0	6.7	42.1
P-329	CNEL	100.8		333.9	-61.5	5.2	-8.8	-1.1	-1.55	0.0	3.5	0.0	6.7	43.2
P-353	CNEL	98.5		317.9	-61.0	4.8	-3.3	-2.0	-1.16	0.0	0.0	0.0	6.7	42.6
P-358 A/B	CNEL	99.4		298.5	-60.5	5.1	-5.0	-1.3	-0.65	0.0	0.0	0.0	6.7	43.7
P-359 A/B	CNEL	99.4		303.2	-60.6	5.1	-4.5	-1.4	-0.76	0.0	0.2	0.0	6.7	44.1
P-360 A/B	CNEL	99.4		312.2	-60.9	5.1	-4.3	-1.6	-0.95	0.0	0.2	0.0	6.7	43.6
P-361A	CNEL	98.1		289.2	-60.2	4.7	-9.5	-0.9	-0.28	0.0	0.0	0.0	6.7	38.6
P-371 A/B	CNEL	98.0		216.2	-57.7	4.3	-22.6	-0.8		0.0	0.0	0.0	6.7	27.9
P-373 A/B	CNEL	98.0		205.1	-57.2	4.3	-22.7	-0.8		0.0	1.7	0.0	6.7	29.9
P-374 A/B	CNEL	98.0		207.0	-57.3	4.3	-22.8	-0.8		0.0	2.0	0.0	6.7	30.1
P-375 A/B	CNEL	98.0		211.5	-57.5	4.3	-22.5	-0.8		0.0	1.3	0.0	6.7	29.4
P-376	CNEL	98.0		208.3	-57.4	4.3	-22.7	-0.8		0.0	1.3	0.0	6.7	29.4
P-376 A/B	CNEL	98.0		203.0	-57.1	4.2	-24.3	-1.0		0.0	1.0	0.0	6.7	27.5
P-377	CNEL	98.0		209.4	-57.4	4.3	-22.5	-0.8		0.0	1.3	0.0	6.7	29.5
P-1101 A	CNEL	98.9		333.0	-61.4	4.9	-18.0	-1.0		0.0	0.0	0.0	6.7	30.1
P-1103	CNEL	98.9		332.2	-61.4	4.9	-13.3	-0.9		0.0	0.0	0.0	6.7	34.7
P-1105 A/B/C	CNEL	98.9		335.4	-61.5	4.9	-19.2	-1.1		0.0	0.0	0.0	6.7	28.7
P-1800	CNEL	98.9		385.1	-62.7	5.2	-19.2	-1.2		0.0	1.5	0.0	6.7	29.3
P-1801	CNEL	98.9		407.6	-63.2	5.3	-24.8	-1.8		0.0	3.4	0.0	6.7	24.4
P-1802	CNEL	98.9		405.5	-63.2	5.3	-24.8	-1.8		0.0	2.4	0.0	6.7	23.4
P-1803	CNEL	99.1		283.8	-60.1	5.0	-18.9	-0.9		0.0	0.7	0.0	6.7	31.7
P-1804	CNEL	99.1		303.7	-60.6	5.1	-16.8	-1.0		0.0	0.0	0.0	6.7	32.4
P-1805	CNEL	99.1		305.1	-60.7	5.1	-18.6	-1.0		0.0	0.0	0.0	6.7	30.5
P-1806	CNEL	99.1		273.5	-59.7	5.0	-7.6	-1.0		0.0	0.0	0.0	6.7	42.5
P-1809 A	CNEL	98.9		386.5	-62.7	5.2	-22.9	-1.3		0.0	0.0	0.0	6.7	23.8
P-1810 A/B/C	CNEL	99.0		296.2	-60.4	5.0	-24.9	-1.4		0.0	0.0	0.0	6.7	24.0
P-1811 A/B	CNEL	99.1		276.3	-59.8	5.0	-18.2	-0.9		0.0	0.0	0.0	6.7	31.9
P-1811 A/B	CNEL	99.1		307.1	-60.7	5.1	-24.3	-1.4		0.0	3.0	0.0	6.7	27.5
P-1847 A/B	CNEL	99.4		221.2	-57.9	4.8	-19.9	-0.7		0.0	0.0	0.0	6.7	32.3
P-1849 A/B	CNEL	99.4		224.9	-58.0	4.8	-20.0	-0.7		0.0	0.0	0.0	6.7	32.1
P-1853	CNEL	99.1		312.4	-60.9	5.1	-5.5	-1.3	-0.73	0.0	0.0	0.0	6.7	42.5
Piping Furnace Tanks	CNEL	87.1	72	154.3	-54.8	2.8	-17.2	-3.4		0.0	0.4	0.0	6.7	21.6
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	172.2	-55.7	2.8	-23.4	-4.2		0.0	0.8	0.0	6.7	25.4
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	160.6	-55.1	2.9	-24.8	-1.5		0.0	0.5	0.0	6.7	43.1
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	160.5	-55.1	2.9	-24.9	-5.1		0.0	2.3	0.0	6.7	41.9
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	295.8	-60.4	3.4	-23.4	-1.2		0.0	0.3	0.0	6.7	35.8
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	264.8	-59.5	3.3	-17.2	-0.8		0.0	0.0	0.0	6.7	43.6
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	252.5	-59.0	3.2	-12.4	-0.8		0.0	0.2	0.0	6.7	41.9
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	294.6	-60.4	3.4	-23.2	-1.2		0.0	0.1	0.0	6.7	36.5
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	265.7	-59.5	3.3	-22.4	-1.0		0.0	0.9	0.0	6.7	31.9
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	252.2	-59.0	3.2	-17.9	-0.8		0.0	0.1	0.0	6.7	36.0
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	256.2	-59.2	3.3	-12.8	-0.8		0.0	0.0	0.0	6.7	43.9
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	274.4	-59.8	3.3	-21.1	-1.0		0.0	0.1	0.0	6.7	34.3
Pre-Treat Train-Roof 01	CNEL	113.1	2037	277.6	-59.9	2.8	-17.5	-0.9		0.0	0.0	0.0	6.7	44.4
PSA Pipe 3" Lagging	CNEL	80.6	11	152.2	-54.6	2.8	-22.3	-1.3		0.0	1.5	0.0	6.7	13.4
PSA Skid Additional Piping w NC	CNEL	116.6	57	162.3	-55.2	2.9	-24.8	-1.6		0.0	0.6	0.0	6.7	45.2
Reformer-Burner Reformer East	CNEL	97.3	269	133.5	-53.5	2.8	-9.4	-0.8		0.0	0.0	0.0	6.7	46.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Reformer-Burner Reformer North	CNEL	95.9	192	142.2	-54.1	2.8	-24.3	-1.1		0.0	0.1	0.0	6.7	26.0	
Reformer-Burner Reformer South	CNEL	95.8	191	138.2	-53.8	2.8	-1.1	-1.3		0.0	0.0	0.0	6.7	52.1	
Reformer-Burner Reformer West	CNEL	97.3	268	146.7	-54.3	2.8	-20.9	-0.8		0.0	0.0	0.0	6.7	33.7	
RFG A from battery to process	CNEL	99.4	87	170.6	-55.6	2.8	-22.0	-3.9		0.0	0.6	0.0	6.7	27.9	
RFG A from battery to process w NC	CNEL	115.2	42	158.1	-55.0	2.9	-24.9	-5.1		0.0	1.5	0.0	6.7	41.2	
Stack Noise	CNEL	108.4		139.2	-53.9	2.8	-1.1	-1.4		-8.1	0.0	0.0	6.7	53.4	
Steam Turbine-Facade 01	CNEL	99.6	29	180.0	-56.1	3.6	-24.5	-3.7		0.0	0.8	0.0	6.7	26.3	
Steam Turbine-Facade 02	CNEL	96.2	13	176.4	-55.9	3.6	-24.5	-3.7		0.0	0.9	0.0	6.7	23.2	
Steam Turbine-Facade 03	CNEL	99.6	29	176.9	-55.9	3.6	-24.5	-3.6		0.0	0.5	0.0	6.7	26.3	
Steam Turbine-Facade 04	CNEL	96.2	13	180.6	-56.1	3.6	-24.6	-3.8		0.0	0.0	0.0	6.7	22.0	
Steam Turbine-Roof 01	CNEL	99.7	30	178.4	-56.0	2.9	-24.0	-3.2		0.0	0.6	0.0	6.7	26.6	
Tank Farm Pump 1	CNEL	99.0	3	196.3	-56.9	4.2	-20.3	-1.0		0.0	0.0	0.0	6.7	31.8	
Tank Farm Pump 2	CNEL	99.0	3	208.8	-57.4	4.3	-16.9	-1.0		0.0	0.1	0.0	6.7	34.7	
Tank Farm Pump 3	CNEL	99.0	3	212.7	-57.5	4.3	-12.0	-1.1		0.0	0.0	0.0	6.7	39.4	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	376.8	-62.5	4.0	-10.0	-3.1	-0.08	0.0	0.1	-13.8	0.0	27.0	
XF-1502 Splitter Area 1	CNEL	104.5		203.1	-57.1	2.8	-5.3	-1.2	-0.06	-4.0	0.0	0.0	6.7	46.2	
XF-1502 Splitter Area 2	CNEL	104.5		205.5	-57.2	2.8	-8.6	-0.9	-0.04	-3.6	0.0	0.0	6.7	43.6	
XF-1504 Splitter Area 1	CNEL	104.5		199.7	-57.0	2.8	-8.7	-0.9	-0.03	-3.6	0.0	0.0	6.7	43.7	
XF-1504 Splitter Area 2	CNEL	104.5		202.1	-57.1	2.8	-11.1	-0.8	-0.03	-3.2	0.0	0.0	6.7	41.7	
XF 251, 250, 271, 270	CNEL	101.1	128	266.0	-59.5	2.8	-3.3	-1.0		-2.8	0.0	0.0	6.7	43.9	
XF 260, 261A, 261 B	CNEL	99.9	97	270.1	-59.6	2.8	-8.7	-0.5	0.00	-2.1	0.0	0.0	6.7	38.4	
XF 304, XF 321	CNEL	110.5	56	244.6	-58.8	2.5	-16.3	-0.4	-0.05	-1.6	0.0	0.0	6.7	42.6	
XF 313, XF 314	CNEL	113.0	18	233.4	-58.4	2.4	-17.7	-0.6		-2.7	0.0	0.0	6.7	42.8	
XF 335-1, XF 335-2	CNEL	113.4	54	239.7	-58.6	2.5	-17.2	-0.5	-0.05	-1.7	0.0	0.0	6.7	44.5	
XF 353A/B	CNEL	95.4	35	308.6	-60.8	2.8	-4.9	-0.6	-0.01	-2.1	0.0	0.0	6.7	36.5	
XF 353A/B	CNEL	95.4	35	284.5	-60.1	2.8	-1.8	-1.0		-2.9	0.0	0.0	6.7	39.1	
XF 354A/B	CNEL	95.4	35	324.5	-61.2	2.9	-2.1	-1.6	-0.01	-3.3	0.0	0.0	6.7	36.7	
XF 503	CNEL	113.0	21	254.5	-59.1	2.8	-9.7	-0.9	-0.50	-3.2	0.0	0.0	6.7	49.0	
XF - 1601	CNEL	96.6		196.0	-56.8	2.7	-13.4	-0.3		-1.1	0.0	0.0	6.7	34.3	
XF - 1602	CNEL	96.6		191.9	-56.7	2.7	-14.1	-0.3		-1.1	0.0	0.0	6.7	33.8	
XF Module 1510	CNEL	108.3		212.3	-57.5	2.8	-7.7	-1.0	-0.27	-3.7	0.0	0.0	6.7	47.5	
XF Module 1519	CNEL	109.0		208.9	-57.4	2.8	-0.5	-1.6	-0.29	-4.6	0.0	0.0	6.7	54.1	
xxxx xxxx xxxx xxxx	CNEL		606								9.7			37.7	
xxxx xxxx xxxx xxxx	CNEL		606								9.7			38.0	
xxxx xxxx xxxx xxxx	CNEL		917								2.8			28.3	
xxxx xxxx xxxx xxxx	CNEL		917								2.7			28.4	
xxxx xxxx xxxx xxxx	CNEL		608								5.1			34.1	
xxxx xxxx xxxx xxxx	CNEL		608								5.6			34.4	
xxxx xxxx xxxx xxxx	CNEL		228								8.3			18.3	
xxxx xxxx xxxx xxxx	CNEL		520								4.9			46.9	
xxxx xxxx xxxx xxxx	CNEL		1341								2.4			48.9	
xxxx xxxx xxxx xxxx	CNEL		450								9.7			22.6	
Receiver CA-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 60.3 dB(A)		Ld 7-19 dB(A)		Leq,N 60.1 dB(A)		Le 19-22 dB(A)		CNEL 66.8 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	138.3	-53.8	2.9	-14.0	-0.7		0.0	5.8	0.0	6.7	51.1	
18-1855 A/B	CNEL	98.8		224.8	-58.0	4.4	-17.3	-0.7		0.0	0.0	0.0	6.7	33.8	
18-1856 A/B	CNEL	98.8		224.0	-58.0	4.4	-11.2	-0.7		0.0	1.0	0.0	6.7	41.0	
18-1857 A/B	CNEL	98.8		225.7	-58.1	4.4	-17.9	-0.7		0.0	0.0	0.0	6.7	33.2	
18-1858 A/B	CNEL	98.8		226.6	-58.1	4.1	-4.5	-1.0		0.0	0.0	0.0	6.7	45.9	
18-PK 1802 Air Compressor Package	CNEL	103.1		235.7	-58.4	4.6	-2.1	-1.1		0.0	0.1	0.0	6.7	52.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	321.4	-61.1	4.6	-10.2	-2.6	-0.20	0.0	0.1	-4.8	1.0	35.8	
Air Compressor C 1	CNEL	110.0	5	250.7	-59.0	4.2	-21.7	-0.7		0.0	2.8	0.0	6.7	42.2	
Air Compressor Pump	CNEL	100.3		255.7	-59.1	4.4	-23.3	-2.3		0.0	0.0	0.0	6.7	26.6	
Blower F 401	CNEL	113.0		299.9	-60.5	4.2	-15.8	-0.4	-0.24	0.0	0.0	0.0	6.7	46.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	354.7	-62.0	4.7	-17.6	-0.7	-1.58	0.0	0.7	0.0	6.7	28.7	
Boiler Feed Water Pump A	CNEL	97.1	3	199.8	-57.0	4.0	-2.0	-1.6		0.0	0.0	0.0	6.7	47.1	
Boiler Feed Water Pump B	CNEL	97.1	3	203.1	-57.1	4.1	-1.7	-1.6		0.0	0.1	0.0	6.7	47.5	
C370 A Motor	CNEL	103.6	3	215.7	-57.7	3.2	-7.1	-1.1		0.0	0.0	0.0	6.7	47.6	
C370 B Motor	CNEL	108.6	3	211.1	-57.5	3.1	-9.0	-0.9		0.0	0.0	0.0	6.7	51.0	
C370A	CNEL	103.8	5	211.7	-57.5	3.2	-8.6	-1.0		0.0	0.0	0.0	6.7	46.7	
C370B	CNEL	103.8	5	207.0	-57.3	3.2	-6.6	-1.2		0.0	0.4	0.0	6.7	49.0	
C-270 A	CNEL	106.3	6	293.2	-60.3	4.1	-0.4	-2.1	-0.63	0.0	0.1	0.0	6.7	53.6	
C-270 B	CNEL	106.3	6	293.1	-60.3	4.1	-0.4	-2.1	-0.64	0.0	0.1	0.0	6.7	53.7	
C-270 C	CNEL	106.3	6	293.0	-60.3	4.1	-0.4	-2.1		0.0	0.1	0.0	6.7	54.3	
C-301 Compressor	CNEL	106.8	3	269.8	-59.6	3.9	-13.5	-0.9	-0.12	0.0	0.0	0.0	6.7	43.3	
C-301 Motor	CNEL	106.8	4	269.4	-59.6	3.9	-13.3	-1.4	-0.13	0.0	0.0	0.0	6.7	43.0	
C-351 Compressor	CNEL	106.8	4	288.1	-60.2	4.0	-19.2	-0.9	-0.47	0.0	0.0	0.0	6.7	36.7	
C-351 Motor	CNEL	106.8	5	292.9	-60.3	3.8	-19.1	-1.4	-0.66	0.0	0.0	0.0	6.7	35.8	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	328.4	-61.3	4.7	-8.6	-0.8	-0.32	0.0	0.0	-35.6	0.0	32.9	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	298.7	-60.5	3.9	-6.9	-1.0	-0.81	1.6	0.0	0.0	6.7	47.7	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	292.5	-60.3	3.8	-7.4	-1.3	-0.48	0.0	0.0	0.0	6.7	41.6	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	301.1	-60.6	3.9	-9.7	-0.7	-0.37	3.2	0.0	0.0	6.7	48.9
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	308.2	-60.8	3.9	-16.4	-0.7	-0.50	-6.9	0.0	0.0	6.7	36.0
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	295.6	-60.4	3.8	-12.5	-0.7	-0.30	-6.9	0.0	0.0	6.7	33.5
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	314.1	-60.9	3.9	-21.2	-1.0	-0.33	-7.8	0.0	0.0	6.7	19.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	237.6	-58.5	3.6	-16.4	-0.6		2.2	0.0	0.0	6.7	34.9
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	247.2	-58.9	3.6	-21.8	-1.0		-7.8	0.1	0.0	6.7	18.8
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	220.3	-57.9	3.2	-19.1	-0.6		2.4	0.0	0.0	6.7	35.4
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	233.3	-58.4	3.4	-21.4	-0.9		-7.8	5.4	0.0	6.7	27.7
Cooling Tower M 512	CNEL	95.7		246.6	-58.8	4.3	-23.4	-1.1		0.0	0.0	0.0	6.7	23.4
Cooling Tower M 513	CNEL	95.7		247.8	-58.9	4.3	-23.6	-1.1		0.0	0.0	0.0	6.7	23.1
Cooling Tower M 514	CNEL	95.7		245.6	-58.8	4.3	-23.4	-1.1		0.0	0.0	0.0	6.7	23.4
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	175.1	-55.9	2.7	-1.9	-0.9		-3.4	0.1	0.0	6.7	43.2
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	133.8	-53.5	2.9	-5.5	-0.1		0.0	0.9	0.0	6.7	46.7
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	132.1	-53.4	2.9	-6.7	-0.1		0.0	0.1	0.0	6.7	42.6
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	134.3	-53.6	2.7	-3.7	-0.1		0.0	0.6	0.0	6.7	46.1
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	136.2	-53.7	2.9	-6.7	0.0		0.0	0.2	0.0	6.7	42.6
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	134.6	-53.6	2.9	-5.6	0.0		0.0	0.0	0.0	6.7	45.8
FD Motor	CNEL	103.3	2	133.4	-53.5	2.9	-16.7	-0.9		0.0	9.8	0.0	6.7	51.5
Feed Compressor -B Motor	CNEL	103.8	5	209.5	-57.4	3.1	-3.3	-1.7		0.0	0.0	0.0	6.7	51.2
Feed Compressor-A Compressor	CNEL	104.0	5	208.7	-57.4	3.3	-14.0	-0.8		0.0	0.0	0.0	6.7	41.8
Feed Compressor-A Motor	CNEL	103.8	6	213.6	-57.6	3.2	-14.0	-1.2		0.0	0.0	0.0	6.7	40.9
Feed Compressor-B Compressor	CNEL	104.0	7	203.8	-57.2	3.3	-2.5	-1.2		0.0	0.0	0.0	6.7	53.1
H2S Compressor 18-C-271	CNEL	105.3	6	264.4	-59.4	4.1	-14.5	-0.9	-0.28	0.0	0.0	0.0	6.7	40.9
Heater # 5-Heater	CNEL	91.1	13	350.7	-61.9	4.7	-19.5	-0.8	-1.58	0.0	1.6	0.0	6.7	23.3
Heater # 5-Heater	CNEL	91.1	13	350.1	-61.9	4.7	-19.2	-0.8	-1.58	0.0	0.0	0.0	6.7	22.0
Heater # 5-Heater	CNEL	91.1	13	351.4	-61.9	4.7	-19.8	-0.8	-1.57	0.0	1.4	0.0	6.7	22.7
Hydro Heater H-402	CNEL	98.1		267.7	-59.5	4.2	-21.8	-0.8		0.0	0.0	0.0	6.7	26.8
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	140.0	-53.9	3.0	-3.8	0.0		0.0	1.5	0.0	6.7	40.4
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	142.3	-54.1	3.1	-7.5	0.0		0.0	0.0	0.0	6.7	35.4
ID Fan-ID Fan - North	CNEL	92.2	8	139.8	-53.9	3.1	-4.3	0.0		0.0	0.0	0.0	6.7	43.7
ID Fan-ID Fan - North 2	CNEL	91.4	7	140.2	-53.9	3.0	-2.1	0.0		0.0	0.0	0.0	6.7	45.1
ID Fan-ID Fan - South	CNEL	92.3	9	143.0	-54.1	3.1	-8.3	0.0		0.0	0.0	0.0	6.7	39.7
ID Fan-ID Fan - South 2	CNEL	91.4	7	141.7	-54.0	3.1	-8.6	0.0		0.0	0.0	0.0	6.7	38.5
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	141.4	-54.0	2.9	-2.4	0.0		0.0	0.0	0.0	6.7	47.1
Motor & Pump P 56A/B	CNEL	93.7		265.2	-59.5	4.4	-21.5	-1.4	-0.51	0.0	0.0	0.0	6.7	21.9
Motor & Pump P 120/121	CNEL	96.2	2	255.2	-59.1	4.3	-20.3	-0.8	-0.23	0.0	0.0	0.0	6.7	26.7
Motor & Pump P 211/212	CNEL	93.7		295.3	-60.4	4.6	-20.9	-1.4	-1.05	0.0	0.0	0.0	6.7	21.3
Motor & Pump P 215/214	CNEL	94.6		292.7	-60.3	4.6	-20.7	-1.4	-1.04	0.0	14.0	0.0	6.7	36.5
Motor & Pump P 216	CNEL	98.3		300.5	-60.6	4.5	-20.5	-1.4	-1.21	0.0	0.0	0.0	6.7	25.9
Motor & Pump P 217/218	CNEL	93.7		294.5	-60.4	4.8	-22.9	-1.9	-0.44	0.0	2.1	0.0	6.7	21.6
Motor & Pump P 300	CNEL	97.1	2	265.3	-59.5	4.4	-20.9	-0.9		0.0	0.3	0.0	6.7	27.2
Motor & Pump P 301	CNEL	102.1	2	265.9	-59.5	4.4	-19.9	-0.9		0.0	0.7	0.0	6.7	33.6
Motor & Pump P 302	CNEL	97.1	2	264.6	-59.4	4.4	-20.0	-0.9		0.0	0.0	0.0	6.7	27.8
Motor & Pump P 303	CNEL	97.1	2	264.2	-59.4	4.3	-20.4	-0.9		0.0	0.6	0.0	6.7	28.0
Motor & Pump P 305	CNEL	97.5	2	263.6	-59.4	4.3	-21.2	-0.9		0.0	0.5	0.0	6.7	27.5
Motor & Pump P 306	CNEL	112.6	4	260.4	-59.3	4.0	-21.9	-1.2		0.0	0.1	0.0	6.7	41.0
Motor & Pump P 307	CNEL	102.1	2	267.8	-59.5	4.4	-19.4	-0.8	-0.19	0.0	1.9	0.0	6.7	35.1
Motor & Pump P 309	CNEL	97.5	2	263.1	-59.4	4.3	-22.8	-1.0		0.0	0.1	0.0	6.7	25.3
Motor & Pump P 312	CNEL	101.5	2	277.3	-59.8	4.6	-20.1	-0.9	-0.25	0.0	0.0	0.0	6.7	31.7
Motor & Pump P 313	CNEL	101.5	2	278.1	-59.9	4.6	-20.0	-0.9	-0.29	0.0	0.0	0.0	6.7	31.7
Motor & Pump P 315	CNEL	102.9	2	281.4	-60.0	4.5	-19.7	-0.9	-0.39	0.0	1.1	0.0	6.7	34.2
Motor & Pump P 316	CNEL	102.9	2	282.4	-60.0	4.6	-19.6	-0.9	-0.42	0.0	0.0	0.0	6.7	33.2
Motor & Pump P 317	CNEL	102.9	2	283.3	-60.0	4.5	-19.4	-0.9	-0.26	0.0	0.0	0.0	6.7	33.4
Motor & Pump P 318	CNEL	100.2	1	280.0	-59.9	4.7	-20.0	-0.9	-0.40	0.0	1.4	0.0	6.7	31.7
Motor & Pump P 319	CNEL	100.2	1	279.3	-59.9	4.7	-20.0	-0.9	-0.38	0.0	0.7	0.0	6.7	31.1
Motor & Pump P 327	CNEL	111.2	3	258.5	-59.2	4.3	-23.0	-1.6		0.0	1.2	0.0	6.7	39.6
Motor & Pump P 328	CNEL	109.9	5	262.3	-59.4	4.2	-22.5	-1.0		0.0	0.0	0.0	6.7	37.9
Motor & Pump P 329	CNEL	110.2	5	261.3	-59.3	4.2	-22.9	-1.0		0.0	0.1	0.0	6.7	37.8
Motor & Pump P 451	CNEL	93.7		271.0	-59.7	4.4	-23.4	-1.8		0.0	0.0	0.0	6.7	20.0
Motor & Pump P 453	CNEL	93.7		276.3	-59.8	4.5	-22.0	-1.4		0.0	0.0	0.0	6.7	21.5
Motor & Pump P 454	CNEL	93.7		271.9	-59.7	4.4	-21.4	-1.4	-0.01	0.0	0.0	0.0	6.7	22.4
Motor & Pump P 457	CNEL	93.7		277.3	-59.9	4.5	-22.0	-1.4		0.0	7.2	0.0	6.7	28.8
Motor & Pump P 458	CNEL	93.7		270.1	-59.6	4.4	-23.4	-1.8		0.0	0.1	0.0	6.7	20.0
Motor & Pump P 459	CNEL	93.7		271.3	-59.7	4.4	-21.4	-1.4	-0.04	0.0	0.0	0.0	6.7	22.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		242.2	-58.7	4.3	-22.2	-1.4	-0.36	0.0	2.2	0.0	6.7	26.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		241.3	-58.6	4.3	-22.1	-1.4	-0.36	0.0	2.2	0.0	6.7	26.9
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		215.8	-57.7	4.2	-24.2	-1.7	-0.18	0.0	0.1	0.0	6.7	22.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		215.3	-57.7	4.1	-23.9	-1.6	-0.11	0.0	0.1	0.0	6.7	23.1
Motor & Pump P 1601 A	CNEL	96.3	2	219.4	-57.8	3.9	-22.2	-1.3		0.0	2.2	0.0	6.7	27.8
Motor & Pump P 1601 B	CNEL	96.3	2	218.2	-57.8	3.9	-21.5	-1.1		0.0	1.2	0.0	6.7	27.7
Motor & Pump P 1602 A	CNEL	96.3	2	217.4	-57.7	3.9	-21.7	-1.1		0.0	0.0	0.0	6.7	26.3
Motor & Pump P 1602 B	CNEL	96.5	2	216.2	-57.7	3.9	-21.8	-1.1		0.0	0.0	0.0	6.7	26.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	234.3	-58.4	4.3	-22.6	-1.4	-0.21	0.0	0.0	0.0	6.7	25.0
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	231.5	-58.3	4.3	-22.5	-1.4	-0.21	0.0	2.0	0.0	6.7	27.2
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	230.1	-58.2	4.3	-22.5	-1.4	-0.21	0.0	2.0	0.0	6.7	27.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	240.0	-58.6	4.3	-22.2	-1.4	-0.35	0.0	0.0	0.0	6.7	25.3
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	238.9	-58.6	4.3	-22.1	-1.4	-0.35	0.0	0.0	0.0	6.7	25.3
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	221.6	-57.9	4.3	-23.4	-1.5	-0.02	0.0	2.2	0.0	6.7	26.5
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	223.5	-58.0	4.3	-23.3	-1.5	-0.09	0.0	2.3	0.0	6.7	26.7
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	226.9	-58.1	4.3	-23.0	-1.5	-0.20	0.0	2.2	0.0	6.7	26.6
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	225.4	-58.1	4.3	-22.6	-1.4	-0.15	0.0	2.6	0.0	6.7	27.6
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	226.6	-58.1	3.7	-20.9	-0.8		0.0	0.0	0.0	6.7	34.7
P-2 A/B	CNEL	98.5		344.9	-61.7	5.1	-19.9	-1.1		0.0	0.0	0.0	6.7	27.5
P-50 A/B	CNEL	98.1		310.7	-60.8	5.0	-20.5	-1.1	-0.77	0.0	0.1	0.0	6.7	26.7
P-51 A/B	CNEL	98.1		314.7	-61.0	5.0	-20.5	-1.1	-0.77	0.0	0.1	0.0	6.7	26.5
P-060 A/B	CNEL	98.1		300.8	-60.6	5.0	-20.8	-0.9	-0.71	0.0	6.5	0.0	6.7	33.3
P-63	CNEL	98.5		342.7	-61.7	5.1	-18.7	-1.0	-1.11	0.0	0.2	0.0	6.7	28.0
P-70 A/B	CNEL	98.1		305.2	-60.7	5.0	-20.7	-1.0	-0.72	0.0	6.4	0.0	6.7	33.2
P-73 A/B	CNEL	98.5		343.1	-61.7	5.1	-18.5	-1.0		0.0	0.0	0.0	6.7	29.1
P-251 A/B	CNEL	98.2		277.4	-59.9	4.9	-12.2	-0.9	-0.46	0.0	0.0	0.0	6.7	36.4
P-252 A/B	CNEL	98.2		266.2	-59.5	4.9	-8.0	-1.0	-0.21	0.0	0.0	0.0	6.7	41.1
P-253	CNEL	98.2		265.0	-59.5	4.9	-2.5	-1.1	-0.20	0.0	0.0	0.0	6.7	46.5
P-254 A/B	CNEL	98.2		275.7	-59.8	4.9	-1.6	-1.3	-0.43	0.0	0.0	0.0	6.7	46.7
P-255 A/B	CNEL	98.2		276.1	-59.8	4.9	-8.7	-1.0	-0.45	0.0	0.0	0.0	6.7	39.9
P-255 A/B	CNEL	98.2		278.6	-59.9	4.9	-4.5	-1.3	-0.44	0.0	0.0	0.0	6.7	43.7
P-256 A/B	CNEL	98.2		276.8	-59.8	4.9	-7.1	-1.1	-0.45	0.0	0.0	0.0	6.7	41.3
P-259 A/B	CNEL	98.2		278.0	-59.9	4.9	-4.0	-1.2	-0.44	0.0	0.0	0.0	6.7	44.2
P-260	CNEL	99.1		269.8	-59.6	4.9	-3.8	-1.2	-0.20	0.0	0.0	0.0	6.7	45.8
P-261 A/B	CNEL	98.0		276.5	-59.8	4.9	-14.5	-0.9	-0.22	0.0	0.0	0.0	6.7	34.2
P-262 A/B	CNEL	99.1		271.9	-59.7	4.9	-4.3	-1.3	-0.21	0.0	0.0	0.0	6.7	45.2
P-263 A/B	CNEL	99.4		270.7	-59.6	4.9	-4.2	-1.3	-0.20	0.0	0.0	0.0	6.7	45.7
P-270 A/B	CNEL	98.5		271.8	-59.7	4.9	-4.1	-1.5	-0.21	0.0	0.0	0.0	6.7	44.6
P-271 A/B	CNEL	98.2		274.6	-59.8	4.9	-0.3	-1.4	-0.42	0.0	0.0	0.0	6.7	47.8
P-272 A/B	CNEL	98.2		275.1	-59.8	4.9	-2.5	-1.1	-0.43	0.0	0.0	0.0	6.7	46.0
P-273 A/B	CNEL	98.5		271.8	-59.7	4.9	-4.2	-1.5	-0.21	0.0	0.0	0.0	6.7	44.5
P-275 A/B/C	CNEL	98.2		263.5	-59.4	4.9	-0.4	-1.4	-0.18	0.0	0.0	0.0	6.7	48.4
P-305	CNEL	99.3		330.5	-61.4	5.1	-7.8	-1.2	-1.51	0.0	0.0	0.0	6.7	39.2
P-306	CNEL	100.8		331.6	-61.4	5.1	-16.7	-1.0	-1.53	0.0	0.0	0.0	6.7	31.9
P-309	CNEL	99.3		330.6	-61.4	5.1	-9.0	-1.1	-1.52	0.0	0.0	0.0	6.7	38.1
P-328	CNEL	100.8		332.4	-61.4	5.1	-18.1	-1.0	-1.54	0.0	0.0	0.0	6.7	30.5
P-329	CNEL	100.8		331.9	-61.4	5.1	-17.8	-1.0	-1.53	0.0	1.1	0.0	6.7	31.9
P-353	CNEL	98.5		316.7	-61.0	4.8	-9.9	-1.1	-1.20	0.0	0.0	0.0	6.7	36.8
P-358 A/B	CNEL	99.4		295.0	-60.4	5.0	-15.9	-0.8	-0.66	0.0	0.0	0.0	6.7	33.3
P-359 A/B	CNEL	99.4		299.7	-60.5	5.0	-15.7	-0.8	-0.77	0.0	0.0	0.0	6.7	33.2
P-360 A/B	CNEL	99.4		308.9	-60.8	5.0	-15.4	-0.9	-0.98	0.0	0.1	0.0	6.7	33.1
P-361A	CNEL	98.1		280.8	-60.0	4.6	-21.3	-1.0	-0.27	0.0	0.0	0.0	6.7	26.8
P-371 A/B	CNEL	98.0		235.3	-58.4	4.3	-21.3	-0.8		0.0	0.9	0.0	6.7	29.4
P-373 A/B	CNEL	98.0		222.6	-57.9	4.3	-23.2	-0.9		0.0	1.7	0.0	6.7	28.5
P-374 A/B	CNEL	98.0		224.8	-58.0	4.3	-23.3	-1.0		0.0	2.3	0.0	6.7	29.0
P-375 A/B	CNEL	98.0		230.1	-58.2	4.3	-21.8	-0.8		0.0	0.6	0.0	6.7	28.8
P-376	CNEL	98.0		226.4	-58.1	4.3	-23.2	-0.9		0.0	10.3	0.0	6.7	37.1
P-376 A/B	CNEL	98.0		220.1	-57.8	4.2	-23.3	-0.9		0.0	1.7	0.0	6.7	28.6
P-377	CNEL	98.0		227.7	-58.1	4.3	-21.9	-0.8		0.0	0.6	0.0	6.7	28.7
P-1101 A	CNEL	98.9		323.4	-61.2	4.8	-21.2	-1.1		0.0	0.0	0.0	6.7	26.9
P-1103	CNEL	98.9		322.8	-61.2	4.8	-21.2	-1.1		0.0	0.0	0.0	6.7	26.8
P-1105 A/B/C	CNEL	98.9		325.4	-61.2	4.8	-21.7	-1.2		0.0	0.0	0.0	6.7	26.3
P-1800	CNEL	98.9		374.7	-62.5	5.2	-23.5	-1.4		0.0	1.6	0.0	6.7	25.0
P-1801	CNEL	98.9		394.2	-62.9	5.2	-24.6	-1.8		0.0	2.3	0.0	6.7	23.8

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1802	CNEL	98.9		392.0	-62.9	5.2	-24.8	-1.8		0.0	3.3	0.0	6.7	24.6
P-1803	CNEL	99.1		274.0	-59.7	4.9	-19.9	-0.9		0.0	0.0	0.0	6.7	30.2
P-1804	CNEL	99.1		293.4	-60.3	5.0	-22.4	-1.2		0.0	0.0	0.0	6.7	26.9
P-1805	CNEL	99.1		294.6	-60.4	5.0	-22.2	-1.1		0.0	0.0	0.0	6.7	27.1
P-1806	CNEL	99.1		265.9	-59.5	4.9	-18.6	-0.8		0.0	0.2	0.0	6.7	31.9
P-1809 A	CNEL	98.9		375.3	-62.5	5.2	-23.9	-1.5		0.0	2.6	0.0	6.7	25.5
P-1810 A/B/C	CNEL	99.0		284.9	-60.1	4.9	-21.8	-1.1		0.0	0.0	0.0	6.7	27.6
P-1811 A/B	CNEL	99.1		268.1	-59.6	4.9	-21.9	-1.0		0.0	0.0	0.0	6.7	28.2
P-1811 A/B	CNEL	99.1		296.2	-60.4	5.0	-24.3	-1.3		0.0	0.7	0.0	6.7	25.4
P-1847 A/B	CNEL	99.4		208.9	-57.4	4.6	-21.6	-0.7		0.0	0.0	0.0	6.7	31.0
P-1849 A/B	CNEL	99.4		211.9	-57.5	4.6	-21.7	-0.7		0.0	0.0	0.0	6.7	30.7
P-1853	CNEL	99.1		315.6	-61.0	5.0	-4.8	-1.5	-0.73	0.0	0.0	0.0	6.7	42.8
Piping Furnace Tanks	CNEL	87.1	72	166.5	-55.4	2.8	-11.7	-4.6		0.0	0.5	0.0	6.7	25.3
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	186.3	-56.4	2.8	-11.6	-5.2		0.0	0.0	0.0	6.7	34.8
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	179.4	-56.1	2.8	-24.8	-1.7		0.0	5.9	0.0	6.7	47.5
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	178.8	-56.0	2.9	-24.8	-5.4		0.0	5.3	0.0	6.7	43.8
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	277.4	-59.9	3.3	-23.1	-1.1		0.0	0.2	0.0	6.7	36.6
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	246.8	-58.8	3.2	-15.4	-0.8		0.0	0.0	0.0	6.7	45.9
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	236.9	-58.5	3.1	-20.1	-0.8		0.0	0.8	0.0	6.7	35.3
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	278.9	-59.9	3.2	-23.5	-1.2		0.0	0.3	0.0	6.7	36.8
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	251.2	-59.0	3.1	-22.9	-1.0		0.0	0.3	0.0	6.7	31.3
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	236.0	-58.4	3.1	-19.7	-0.8		0.0	0.1	0.0	6.7	34.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	241.5	-58.7	3.2	-17.5	-0.7		0.0	0.1	0.0	6.7	39.8
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	259.8	-59.3	3.2	-22.5	-1.0		0.0	0.0	0.0	6.7	33.3
Pre-Treat Train-Roof 01	CNEL	113.1	2037	260.9	-59.3	2.8	-15.2	-0.9		0.0	0.0	0.0	6.7	47.2
PSA Pipe 3" Lagging	CNEL	80.6	11	169.0	-55.6	2.8	-16.5	-1.2		0.0	0.3	0.0	6.7	17.1
PSA Skid Additional Piping w NC	CNEL	116.6	57	181.5	-56.2	2.8	-24.7	-1.7		0.0	6.7	0.0	6.7	50.3
Reformer-Burner Reformer East	CNEL	97.3	269	145.0	-54.2	2.8	-0.3	-1.3		0.0	0.0	0.0	6.7	54.0
Reformer-Burner Reformer North	CNEL	95.9	192	155.0	-54.8	2.8	-15.5	-0.7		0.0	0.1	0.0	6.7	34.4
Reformer-Burner Reformer South	CNEL	95.8	191	147.9	-54.4	2.8	-2.3	-1.3		0.0	0.2	0.0	6.7	50.5
Reformer-Burner Reformer West	CNEL	97.3	268	157.5	-54.9	2.8	-21.4	-0.9		0.0	0.0	0.0	6.7	32.6
RFG A from battery to process	CNEL	99.4	87	184.0	-56.3	2.8	-10.1	-5.4		0.0	0.1	0.0	6.7	37.2
RFG A from battery to process w NC	CNEL	115.2	42	176.7	-55.9	2.9	-24.9	-5.4		0.0	4.3	0.0	6.7	42.8
Stack Noise	CNEL	108.4		142.8	-54.1	2.7	-1.1	-1.4		-8.1	0.0	0.0	6.7	53.1
Steam Turbine-Facade 01	CNEL	99.6	29	198.4	-56.9	3.7	-24.4	-3.8		0.0	0.4	0.0	6.7	25.2
Steam Turbine-Facade 02	CNEL	96.2	13	194.5	-56.8	3.6	-24.3	-3.7		0.0	0.0	0.0	6.7	21.8
Steam Turbine-Facade 03	CNEL	99.6	29	195.5	-56.8	3.6	-24.3	-3.6		0.0	0.7	0.0	6.7	25.9
Steam Turbine-Facade 04	CNEL	96.2	13	199.4	-57.0	3.7	-24.4	-3.8		0.0	1.0	0.0	6.7	22.3
Steam Turbine-Roof 01	CNEL	99.7	30	196.9	-56.9	2.8	-23.7	-3.1		0.0	1.8	0.0	6.7	27.3
Tank Farm Pump 1	CNEL	99.0	3	184.0	-56.3	4.0	-19.2	-0.9		0.0	0.0	0.0	6.7	33.2
Tank Farm Pump 2	CNEL	99.0	3	194.1	-56.8	4.1	-19.3	-0.9		0.0	0.2	0.0	6.7	33.0
Tank Farm Pump 3	CNEL	99.0	3	197.5	-56.9	4.1	-22.0	-1.1		0.0	0.2	0.0	6.7	30.0
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	401.0	-63.1	4.0	-9.4	-3.2	-0.07	0.0	0.1	-13.8	0.0	27.0
XF-1502 Splitter Area 1	CNEL	104.5		227.4	-58.1	2.7	-12.7	-0.9	-0.05	-3.3	0.0	0.0	6.7	38.8
XF-1502 Splitter Area 2	CNEL	104.5		229.6	-58.2	2.7	-14.4	-0.9	-0.04	-3.1	0.0	0.0	6.7	37.3
XF-1504 Splitter Area 1	CNEL	104.5		223.8	-58.0	2.7	-14.4	-0.9	-0.03	-3.1	0.0	0.0	6.7	37.6
XF-1504 Splitter Area 2	CNEL	104.5		226.0	-58.1	2.7	-15.6	-0.8	-0.03	-3.0	0.0	0.0	6.7	36.4
XF 251, 250, 271, 270	CNEL	101.1	128	269.3	-59.6	2.8	-0.2	-1.1		-3.2	0.0	0.0	6.7	46.5
XF 260, 261A, 261 B	CNEL	99.9	97	279.0	-59.9	2.8	-3.1	-0.8	0.00	-2.5	0.0	0.0	6.7	43.0
XF 304, XF 321	CNEL	110.5	56	272.0	-59.7	2.4	-15.3	-0.4	-0.04	-1.6	0.0	0.0	6.7	42.5
XF 313, XF 314	CNEL	113.0	18	261.7	-59.3	2.4	-17.8	-0.6		-2.7	0.0	0.0	6.7	41.7
XF 335-1, XF 335-2	CNEL	113.4	54	267.5	-59.5	2.4	-16.1	-0.6	-0.05	-1.8	0.0	0.0	6.7	44.5
XF 353A/B	CNEL	95.4	35	304.4	-60.7	2.8	-11.2	-0.4	-0.01	-1.4	0.0	0.0	6.7	31.2
XF 353A/B	CNEL	95.4	35	281.4	-60.0	2.8	-11.6	-0.4		-1.5	0.0	0.0	6.7	31.4
XF 354A/B	CNEL	95.4	35	323.4	-61.2	2.8	-5.8	-0.6	0.00	-2.1	0.0	0.0	6.7	35.2
XF 503	CNEL	113.0	21	279.4	-59.9	2.7	-3.5	-3.1	-0.62	-3.8	0.0	0.0	6.7	51.6
XF - 1601	CNEL	96.6		218.7	-57.8	2.6	-8.6	-0.4		-1.5	0.0	0.0	6.7	37.6
XF - 1602	CNEL	96.6		214.2	-57.6	2.6	-9.2	-0.4		-1.5	0.0	0.0	6.7	37.2
XF Module 1510	CNEL	108.3		236.5	-58.5	2.7	-14.1	-0.9	-0.25	-3.1	0.0	0.0	6.7	40.8
XF Module 1519	CNEL	109.0		233.4	-58.4	2.7	-11.5	-1.0	-0.27	-3.4	0.0	0.0	6.7	43.9
xxxx xxxx xxxx xxxx	CNEL		606								21.2			42.7
xxxx xxxx xxxx xxxx	CNEL		606								21.2			42.8
xxxx xxxx xxxx xxxx	CNEL		917								1.5			29.6
xxxx xxxx xxxx xxxx	CNEL		917								1.6			29.7
xxxx xxxx xxxx xxxx	CNEL		608								11.2			39.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	CNEL		608								11.7			39.8	
xxxx xxxx xxxx xxxx	CNEL		228								6.0			15.8	
xxxx xxxx xxxx xxxx	CNEL		520								19.0			47.7	
xxxx xxxx xxxx xxxx	CNEL		1341								2.6			49.2	
xxxx xxxx xxxx xxxx	CNEL		450								9.2			19.9	
Receiver CA-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 57.9 dB(A)		Ld 7-19 dB(A)		Leq,N 57.8 dB(A)		Le 19-22 dB(A)		CNEL 64.5 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	147.4	-54.4	2.9	-18.4	-0.8		0.0	13.6	0.0	6.7	53.9	
18-1855 A/B	CNEL	98.8		231.6	-58.3	4.3	-19.3	-0.8		0.0	0.2	0.0	6.7	31.6	
18-1856 A/B	CNEL	98.8		230.0	-58.2	4.3	-19.5	-0.8		0.0	0.3	0.0	6.7	31.6	
18-1857 A/B	CNEL	98.8		233.3	-58.3	4.3	-19.2	-0.8		0.0	0.3	0.0	6.7	31.7	
18-1858 A/B	CNEL	98.8		234.7	-58.4	4.1	-10.0	-0.8		0.0	0.0	0.0	6.7	40.4	
18-PK 1802 Air Compressor Package	CNEL	103.1		240.7	-58.6	4.6	-15.0	-0.4		0.0	0.4	0.0	6.7	40.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	337.3	-61.6	4.6	-9.8	-2.5	-0.07	0.0	0.1	-4.8	1.0	36.0	
Air Compressor C 1	CNEL	110.0	5	276.8	-59.8	4.2	-21.8	-0.8		0.0	2.8	0.0	6.7	41.3	
Air Compressor Pump	CNEL	100.3		269.5	-59.6	4.4	-22.5	-2.2		0.0	0.0	0.0	6.7	27.1	
Blower F 401	CNEL	113.0		321.6	-61.1	4.2	-15.5	-0.4	-0.23	0.0	0.4	0.0	6.7	47.0	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	354.0	-62.0	4.6	-6.6	-1.2	-1.62	0.0	0.9	0.0	6.7	39.3	
Boiler Feed Water Pump A	CNEL	97.1	3	206.3	-57.3	4.0	-14.0	-0.7		0.0	1.4	0.0	6.7	37.2	
Boiler Feed Water Pump B	CNEL	97.1	3	209.6	-57.4	4.0	-14.6	-0.7		0.0	0.3	0.0	6.7	35.4	
C370 A Motor	CNEL	103.6	3	231.4	-58.3	3.3	-8.8	-1.0		0.0	0.8	0.0	6.7	46.2	
C370 B Motor	CNEL	108.6	3	225.9	-58.1	3.2	-14.8	-0.8		0.0	0.0	0.0	6.7	44.8	
C370A	CNEL	103.8	5	227.7	-58.1	3.3	-5.9	-1.4		0.0	0.0	0.0	6.7	48.4	
C370B	CNEL	103.8	5	222.0	-57.9	3.2	-14.2	-0.8		0.0	0.0	0.0	6.7	40.8	
C-270 A	CNEL	106.3	6	294.8	-60.4	4.0	-14.1	-0.8	-0.62	0.0	0.2	0.0	6.7	41.2	
C-270 B	CNEL	106.3	6	295.2	-60.4	4.0	-14.9	-0.8	-0.61	0.0	0.0	0.0	6.7	40.3	
C-270 C	CNEL	106.3	6	295.5	-60.4	4.0	-17.1	-0.9		0.0	0.1	0.0	6.7	38.6	
C-301 Compressor	CNEL	106.8	3	269.9	-59.6	3.8	-8.4	-1.2	-0.12	0.0	0.7	0.0	6.7	48.7	
C-301 Motor	CNEL	106.8	4	269.8	-59.6	3.8	-11.8	-1.3	-0.13	0.0	3.3	0.0	6.7	47.8	
C-351 Compressor	CNEL	106.8	4	288.0	-60.2	4.0	-15.6	-1.0	-0.47	0.0	3.6	0.0	6.7	43.8	
C-351 Motor	CNEL	106.8	5	292.8	-60.3	3.7	-15.9	-1.4	-0.66	0.0	5.1	0.0	6.7	44.0	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	345.4	-61.8	4.7	-9.6	-0.7	-0.15	0.0	0.1	-35.6	0.0	31.7	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	322.7	-61.2	3.9	-16.1	-0.7	-0.74	1.4	0.3	0.0	6.7	38.3	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	316.7	-61.0	3.9	-13.7	-0.8	-0.52	0.0	0.4	0.0	6.7	35.5	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	325.6	-61.2	3.9	-10.4	-0.7	-0.48	3.4	0.2	0.0	6.7	47.9	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	332.4	-61.4	3.9	-22.1	-1.0	-0.54	-6.7	0.7	0.0	6.7	30.2	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	319.7	-61.1	3.9	-22.9	-1.0	-0.68	-6.7	0.8	0.0	6.7	22.7	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	338.6	-61.6	4.0	-21.1	-1.1	-0.30	-7.8	0.6	0.0	6.7	19.8	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	259.6	-59.3	3.7	-17.7	-0.6		1.9	0.7	0.0	6.7	33.3	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	269.7	-59.6	3.7	-21.3	-0.9		-7.8	0.7	0.0	6.7	19.3	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	241.1	-58.6	3.3	-18.2	-0.6		2.2	0.7	0.0	6.7	36.0	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	255.0	-59.1	3.5	-22.0	-1.0		-7.8	8.5	0.0	6.7	29.5	
Cooling Tower M 512	CNEL	95.7		268.6	-59.6	4.3	-22.2	-1.1		0.0	1.3	0.0	6.7	25.1	
Cooling Tower M 513	CNEL	95.7		269.8	-59.6	4.3	-22.1	-1.1		0.0	1.3	0.0	6.7	25.1	
Cooling Tower M 514	CNEL	95.7		267.5	-59.5	4.3	-23.6	-1.2		0.0	1.9	0.0	6.7	24.2	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	183.6	-56.3	2.7	-9.1	-0.4		-2.2	1.0	0.0	6.7	38.2	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	145.4	-54.2	2.9	-5.4	-0.1		0.0	0.9	0.0	6.7	46.2	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	144.1	-54.2	2.9	-6.5	-0.1		0.0	0.1	0.0	6.7	42.0	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	146.0	-54.3	2.7	-4.8	-0.1		0.0	0.7	0.0	6.7	44.4	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	147.9	-54.4	2.9	-6.3	0.0		0.0	0.6	0.0	6.7	42.7	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	146.6	-54.3	2.9	-6.0	0.0		0.0	0.1	0.0	6.7	44.6	
FD Motor	CNEL	103.3	2	144.8	-54.2	2.9	-16.3	-0.9		0.0	10.5	0.0	6.7	51.9	
Feed Compressor -B Motor	CNEL	103.8	5	220.6	-57.9	3.2	-5.4	-1.6		0.0	0.0	0.0	6.7	48.8	
Feed Compressor-A Compressor	CNEL	104.0	5	221.6	-57.9	3.4	-12.6	-0.8		0.0	0.1	0.0	6.7	42.9	
Feed Compressor-A Motor	CNEL	103.8	6	226.2	-58.1	3.2	-3.5	-1.8		0.0	0.0	0.0	6.7	50.3	
Feed Compressor-B Compressor	CNEL	104.0	7	215.2	-57.6	3.3	-3.4	-1.2		0.0	0.0	0.0	6.7	51.7	
H2S Compressor 18-C-271	CNEL	105.3	6	289.4	-60.2	4.1	-11.3	-1.1	-0.38	0.0	0.2	0.0	6.7	43.3	
Heater # 5-Heater	CNEL	91.1	13	350.1	-61.9	4.6	-16.1	-0.7	-1.49	0.0	3.0	0.0	6.7	28.1	
Heater # 5-Heater	CNEL	91.1	13	349.9	-61.9	4.6	-18.5	-0.8	-1.13	0.0	0.0	0.0	6.7	23.1	
Heater # 5-Heater	CNEL	91.1	13	350.4	-61.9	4.6	-13.0	-0.8	-1.49	0.0	3.9	0.0	6.7	32.1	
Hydro Heater H-402	CNEL	98.1		290.6	-60.3	4.2	-21.4	-0.8		0.0	0.0	0.0	6.7	26.5	
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	148.8	-54.4	3.1	-9.2	0.0		0.0	0.1	0.0	6.7	33.1	
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	151.0	-54.6	3.1	-13.0	0.0		0.0	0.0	0.0	6.7	29.4	
ID Fan-ID Fan - North	CNEL	92.2	8	148.9	-54.5	3.1	-7.3	0.0		0.0	0.0	0.0	6.7	40.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - North 2	CNEL	91.4	7	148.8	-54.4	3.0	-6.4	0.0		0.0	0.0	0.0	6.7	40.1
ID Fan-ID Fan - South	CNEL	92.3	9	151.9	-54.6	3.1	-12.2	0.0		0.0	0.0	0.0	6.7	35.2
ID Fan-ID Fan - South 2	CNEL	91.4	7	150.2	-54.5	3.0	-14.1	0.0		0.0	0.0	0.0	6.7	32.4
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	150.2	-54.5	2.9	-6.5	0.0		0.0	0.0	0.0	6.7	42.4
Motor & Pump P 56A/B	CNEL	93.7		289.0	-60.2	4.4	-23.2	-1.9	-0.16	0.0	1.9	0.0	6.7	21.1
Motor & Pump P 120/121	CNEL	96.2	2	280.9	-60.0	4.3	-20.5	-0.9	-0.24	0.0	1.5	0.0	6.7	27.1
Motor & Pump P 211/212	CNEL	93.7		318.7	-61.1	4.6	-20.2	-1.4	-1.02	0.0	1.7	0.0	6.7	23.0
Motor & Pump P 215/214	CNEL	94.6		316.2	-61.0	4.6	-20.3	-1.4	-1.02	0.0	1.5	0.0	6.7	23.7
Motor & Pump P 216	CNEL	98.3		324.0	-61.2	4.5	-22.6	-1.9	-0.49	0.0	1.3	0.0	6.7	24.6
Motor & Pump P 217/218	CNEL	93.7		317.9	-61.0	4.8	-21.3	-1.5	-1.02	0.0	2.2	0.0	6.7	22.4
Motor & Pump P 300	CNEL	97.1	2	291.2	-60.3	4.4	-19.5	-0.9		0.0	0.0	0.0	6.7	27.5
Motor & Pump P 301	CNEL	102.1	2	291.8	-60.3	4.4	-19.1	-0.9		0.0	0.2	0.0	6.7	33.1
Motor & Pump P 302	CNEL	97.1	2	290.6	-60.3	4.4	-18.9	-0.9		0.0	0.0	0.0	6.7	28.1
Motor & Pump P 303	CNEL	97.1	2	290.2	-60.2	4.3	-19.9	-0.9		0.0	0.3	0.0	6.7	27.3
Motor & Pump P 305	CNEL	97.5	2	289.7	-60.2	4.3	-21.1	-1.0		0.0	1.1	0.0	6.7	27.3
Motor & Pump P 306	CNEL	112.6	4	286.6	-60.1	4.0	-21.4	-1.2		0.0	0.1	0.0	6.7	40.7
Motor & Pump P 307	CNEL	102.1	2	293.5	-60.3	4.4	-19.3	-0.9	-0.24	0.0	3.3	0.0	6.7	35.8
Motor & Pump P 309	CNEL	97.5	2	289.2	-60.2	4.3	-22.9	-1.1		0.0	0.1	0.0	6.7	24.4
Motor & Pump P 312	CNEL	101.5	2	302.3	-60.6	4.6	-19.4	-0.9	-0.34	0.0	1.6	0.0	6.7	33.1
Motor & Pump P 313	CNEL	101.5	2	303.0	-60.6	4.6	-19.3	-0.9	-0.40	0.0	1.6	0.0	6.7	33.1
Motor & Pump P 315	CNEL	102.9	2	306.1	-60.7	4.5	-18.9	-0.9	-0.59	0.0	2.7	0.0	6.7	35.7
Motor & Pump P 316	CNEL	102.9	2	307.0	-60.7	4.6	-20.1	-1.0	-0.25	0.0	1.7	0.0	6.7	33.8
Motor & Pump P 317	CNEL	102.9	2	307.9	-60.8	4.5	-19.4	-1.0	-0.59	0.0	1.8	0.0	6.7	34.1
Motor & Pump P 318	CNEL	100.2	1	304.8	-60.7	4.7	-20.1	-1.0	-0.51	0.0	2.4	0.0	6.7	31.7
Motor & Pump P 319	CNEL	100.2	1	304.1	-60.7	4.7	-19.2	-0.9	-0.49	0.0	2.4	0.0	6.7	32.7
Motor & Pump P 327	CNEL	111.2	3	285.0	-60.1	4.3	-23.0	-1.7		0.0	2.4	0.0	6.7	39.9
Motor & Pump P 328	CNEL	109.9	5	288.4	-60.2	4.2	-22.5	-1.1		0.0	0.0	0.0	6.7	37.0
Motor & Pump P 329	CNEL	110.2	5	287.5	-60.2	4.2	-22.6	-1.1		0.0	0.0	0.0	6.7	37.2
Motor & Pump P 451	CNEL	93.7		293.6	-60.3	4.4	-21.5	-1.4		0.0	1.6	0.0	6.7	23.1
Motor & Pump P 453	CNEL	93.7		298.3	-60.5	4.5	-21.4	-1.4		0.0	2.3	0.0	6.7	23.8
Motor & Pump P 454	CNEL	93.7		294.6	-60.4	4.4	-21.2	-1.4		0.0	1.6	0.0	6.7	23.3
Motor & Pump P 457	CNEL	93.7		299.2	-60.5	4.5	-21.1	-1.4		0.0	1.9	0.0	6.7	23.8
Motor & Pump P 458	CNEL	93.7		292.7	-60.3	4.4	-21.5	-1.4		0.0	1.6	0.0	6.7	23.1
Motor & Pump P 459	CNEL	93.7		294.0	-60.4	4.4	-23.0	-1.9		0.0	2.4	0.0	6.7	21.9
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		265.7	-59.5	4.4	-22.1	-1.4	-0.35	0.0	3.6	0.0	6.7	27.4
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		264.8	-59.4	4.4	-22.1	-1.4	-0.34	0.0	2.4	0.0	6.7	26.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		240.6	-58.6	4.2	-24.2	-1.8	-0.20	0.0	1.7	0.0	6.7	23.1
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		240.1	-58.6	4.2	-23.7	-1.7	-0.12	0.0	1.7	0.0	6.7	23.8
Motor & Pump P 1601 A	CNEL	96.3	2	241.8	-58.7	4.0	-20.7	-1.2		0.0	1.7	0.0	6.7	28.1
Motor & Pump P 1601 B	CNEL	96.3	2	240.5	-58.6	4.0	-20.7	-1.2		0.0	1.6	0.0	6.7	28.1
Motor & Pump P 1602 A	CNEL	96.3	2	239.7	-58.6	4.0	-20.7	-1.2		0.0	1.5	0.0	6.7	28.1
Motor & Pump P 1602 B	CNEL	96.5	2	238.5	-58.5	4.0	-20.7	-1.2		0.0	1.5	0.0	6.7	28.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	257.5	-59.2	4.4	-22.2	-1.5	-0.20	0.0	4.6	0.0	6.7	29.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	254.9	-59.1	4.3	-22.4	-1.5	-0.20	0.0	4.5	0.0	6.7	28.9
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	253.6	-59.1	4.3	-22.5	-1.5	-0.20	0.0	4.6	0.0	6.7	29.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	263.5	-59.4	4.3	-22.1	-1.4	-0.34	0.0	2.4	0.0	6.7	26.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	262.6	-59.4	4.3	-22.1	-1.4	-0.34	0.0	3.0	0.0	6.7	27.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	245.1	-58.8	4.3	-22.6	-1.5	-0.02	0.0	1.4	0.0	6.7	25.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	247.1	-58.8	4.3	-23.2	-1.6	-0.08	0.0	1.8	0.0	6.7	25.3
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	250.6	-59.0	4.3	-22.9	-1.6	-0.19	0.0	4.1	0.0	6.7	27.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	249.0	-58.9	4.3	-22.6	-1.5	-0.14	0.0	3.3	0.0	6.7	27.4
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	252.4	-59.0	3.8	-20.0	-0.8		0.0	0.1	0.0	6.7	34.9
P-2 A/B	CNEL	98.5		337.2	-61.5	5.0	-18.5	-1.1		0.0	0.0	0.0	6.7	29.1
P-50 A/B	CNEL	98.1		305.4	-60.7	4.9	-17.5	-0.9	-0.87	0.0	0.0	0.0	6.7	29.7
P-51 A/B	CNEL	98.1		309.4	-60.8	4.9	-17.8	-0.9	-1.06	0.0	0.0	0.0	6.7	29.1
P-060 A/B	CNEL	98.1		295.2	-60.4	4.9	-22.8	-1.1	-0.66	0.0	0.0	0.0	6.7	24.8
P-63	CNEL	98.5		337.5	-61.6	5.0	-17.3	-1.0	-1.16	0.0	0.0	0.0	6.7	29.1
P-70 A/B	CNEL	98.1		299.7	-60.5	4.9	-17.9	-0.9	-0.75	0.0	0.0	0.0	6.7	29.6
P-73 A/B	CNEL	98.5		335.8	-61.5	5.0	-15.8	-1.0		0.0	0.0	0.0	6.7	31.9
P-251 A/B	CNEL	98.2		284.6	-60.1	4.9	-15.6	-0.9	-0.46	0.0	0.1	0.0	6.7	32.9
P-252 A/B	CNEL	98.2		273.3	-59.7	4.8	-16.1	-0.8	-0.21	0.0	0.0	0.0	6.7	32.9
P-253	CNEL	98.2		271.4	-59.7	4.8	-16.9	-0.8	-0.21	0.0	0.2	0.0	6.7	32.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-254 A/B	CNEL	98.2		281.8	-60.0	4.9	-17.0	-0.9	-0.45	0.0	0.2	0.0	6.7	31.6
P-255 A/B	CNEL	98.2		282.6	-60.0	4.9	-15.2	-0.8	-0.46	0.0	0.0	0.0	6.7	33.3
P-255 A/B	CNEL	98.2		286.5	-60.1	4.9	-14.7	-0.9	-0.46	0.0	0.0	0.0	6.7	33.6
P-256 A/B	CNEL	98.2		283.7	-60.0	4.9	-16.5	-0.9	-0.46	0.0	0.0	0.0	6.7	31.9
P-259 A/B	CNEL	98.2		285.5	-60.1	4.9	-11.8	-0.9	-0.46	0.0	0.0	0.0	6.7	36.5
P-260	CNEL	99.1		278.8	-59.9	4.8	-18.0	-0.9	-0.22	0.0	0.0	0.0	6.7	31.6
P-261 A/B	CNEL	98.0		287.6	-60.2	4.9	-13.3	-0.9	-0.22	0.0	0.0	0.0	6.7	35.0
P-262 A/B	CNEL	99.1		281.7	-60.0	4.9	-15.3	-0.8	-0.21	0.0	0.1	0.0	6.7	34.4
P-263 A/B	CNEL	99.4		280.1	-59.9	4.8	-17.3	-0.9	-0.21	0.0	0.0	0.0	6.7	32.6
P-270 A/B	CNEL	98.5		273.7	-59.7	4.8	-19.8	-0.9	-0.22	0.0	1.8	0.0	6.7	31.2
P-271 A/B	CNEL	98.2		279.8	-59.9	4.9	-19.7	-0.9	-0.45	0.0	0.3	0.0	6.7	29.0
P-272 A/B	CNEL	98.2		280.7	-60.0	4.9	-17.0	-0.8	-0.45	0.0	0.2	0.0	6.7	31.6
P-273 A/B	CNEL	98.5		274.0	-59.7	4.8	-21.2	-0.9	-0.22	0.0	2.1	0.0	6.7	30.0
P-275 A/B/C	CNEL	98.2		268.7	-59.6	4.8	-20.1	-0.9	-0.20	0.0	0.3	0.0	6.7	29.3
P-305	CNEL	99.3		331.2	-61.4	5.0	-18.3	-1.0	-1.52	0.0	0.0	0.0	6.7	28.8
P-306	CNEL	100.8		331.5	-61.4	5.0	-15.5	-1.0	-1.52	0.0	0.0	0.0	6.7	33.1
P-309	CNEL	99.3		331.2	-61.4	5.0	-19.4	-1.0	-1.52	0.0	0.0	0.0	6.7	27.7
P-328	CNEL	100.8		331.8	-61.4	5.0	-4.8	-1.5	-1.47	0.0	0.1	0.0	6.7	43.4
P-329	CNEL	100.8		331.5	-61.4	5.0	-10.3	-1.1	-1.51	0.0	0.2	0.0	6.7	38.4
P-353	CNEL	98.5		317.2	-61.0	4.7	-18.0	-1.0	-1.20	0.0	0.0	0.0	6.7	28.7
P-358 A/B	CNEL	99.4		293.6	-60.3	4.9	-1.3	-1.7	-0.60	0.0	0.1	0.0	6.7	47.1
P-359 A/B	CNEL	99.4		298.3	-60.5	4.9	-1.3	-1.8	-0.70	0.0	0.1	0.0	6.7	46.9
P-360 A/B	CNEL	99.4		307.6	-60.8	4.9	-1.3	-1.8	-0.90	0.0	0.5	0.0	6.7	46.8
P-361A	CNEL	98.1		274.8	-59.8	4.5	-20.1	-1.0	-0.26	0.0	0.0	0.0	6.7	28.1
P-371 A/B	CNEL	98.0		254.4	-59.1	4.4	-20.6	-0.8		0.0	0.0	0.0	6.7	28.5
P-373 A/B	CNEL	98.0		240.6	-58.6	4.3	-22.6	-1.0		0.0	2.4	0.0	6.7	29.1
P-374 A/B	CNEL	98.0		243.1	-58.7	4.3	-22.6	-1.0		0.0	0.0	0.0	6.7	26.7
P-375 A/B	CNEL	98.0		248.9	-58.9	4.3	-22.7	-1.0		0.0	0.1	0.0	6.7	26.5
P-376	CNEL	98.0		244.8	-58.8	4.3	-19.4	-0.8		0.0	0.0	0.0	6.7	30.1
P-376 A/B	CNEL	98.0		237.8	-58.5	4.3	-15.2	-0.7		0.0	0.9	0.0	6.7	35.3
P-377	CNEL	98.0		246.3	-58.8	4.3	-22.6	-1.0		0.0	0.0	0.0	6.7	26.6
P-1101 A	CNEL	98.9		315.9	-61.0	4.7	-18.8	-1.0		0.0	0.0	0.0	6.7	29.5
P-1103	CNEL	98.9		315.4	-61.0	4.7	-17.2	-1.0		0.0	0.0	0.0	6.7	31.1
P-1105 A/B/C	CNEL	98.9		317.4	-61.0	4.7	-20.9	-1.1		0.0	0.6	0.0	6.7	27.8
P-1800	CNEL	98.9		366.1	-62.3	5.1	-22.9	-1.3		0.0	1.4	0.0	6.7	25.6
P-1801	CNEL	98.9		382.5	-62.6	5.1	-24.6	-1.7		0.0	9.2	0.0	6.7	30.9
P-1802	CNEL	98.9		380.2	-62.6	5.1	-24.5	-1.7		0.0	9.1	0.0	6.7	31.0
P-1803	CNEL	99.1		266.6	-59.5	4.8	-13.5	-0.8		0.0	0.0	0.0	6.7	36.8
P-1804	CNEL	99.1		285.3	-60.1	4.9	-20.1	-1.0		0.0	0.0	0.0	6.7	29.5
P-1805	CNEL	99.1		286.2	-60.1	4.9	-21.0	-1.1		0.0	0.3	0.0	6.7	28.7
P-1806	CNEL	99.1		260.8	-59.3	4.8	-16.0	-0.7		0.0	0.0	0.0	6.7	34.5
P-1809 A	CNEL	98.9		365.7	-62.3	5.1	-23.4	-1.3		0.0	2.8	0.0	6.7	26.4
P-1810 A/B/C	CNEL	99.0		276.0	-59.8	4.8	-22.3	-1.1		0.0	1.1	0.0	6.7	28.3
P-1811 A/B	CNEL	99.1		262.4	-59.4	4.8	-20.5	-1.0		0.0	0.0	0.0	6.7	29.7
P-1811 A/B	CNEL	99.1		287.5	-60.2	4.9	-24.3	-1.3		0.0	0.0	0.0	6.7	24.9
P-1847 A/B	CNEL	99.4		199.7	-57.0	4.4	-20.9	-0.7		0.0	1.4	0.0	6.7	33.3
P-1849 A/B	CNEL	99.4		202.0	-57.1	4.5	-21.0	-0.7		0.0	0.8	0.0	6.7	32.5
P-1853	CNEL	99.1		320.3	-61.1	5.0	-17.7	-1.0	-0.76	0.0	0.2	0.0	6.7	30.4
Piping Furnace Tanks	CNEL	87.1	72	180.9	-56.1	2.8	-4.5	-6.0		0.0	0.8	0.0	6.7	30.8
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	201.8	-57.1	2.8	-4.2	-6.1		0.0	0.1	0.0	6.7	40.6
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	199.0	-57.0	2.9	-24.6	-1.8		0.0	2.0	0.0	6.7	42.7
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	198.0	-56.9	2.9	-24.7	-5.5		0.0	2.0	0.0	6.7	39.5
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	261.2	-59.3	3.1	-23.3	-1.1		0.0	0.1	0.0	6.7	36.7
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	231.4	-58.3	3.1	-17.9	-0.7		0.0	0.1	0.0	6.7	44.1
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	224.1	-58.0	3.0	-19.3	-0.7		0.0	0.8	0.0	6.7	36.6
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	265.5	-59.5	3.2	-23.3	-1.1		0.0	0.6	0.0	6.7	37.7
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	239.2	-58.6	3.0	-22.0	-0.9		0.0	0.8	0.0	6.7	33.0
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	222.5	-57.9	3.1	-18.2	-0.7		0.0	0.0	0.0	6.7	36.7
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	229.5	-58.2	3.1	-16.4	-0.7		0.0	1.3	0.0	6.7	42.5
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	247.8	-58.9	3.1	-21.3	-0.9		0.0	4.3	0.0	6.7	39.1
Pre-Treat Train-Roof 01	CNEL	113.1	2037	246.6	-58.8	2.8	-18.0	-0.8		0.0	0.6	0.0	6.7	45.5
PSA Pipe 3" Lagging	CNEL	80.6	11	187.1	-56.4	2.8	-10.4	-1.3		0.0	0.1	0.0	6.7	22.0
PSA Skid Additional Piping w NC	CNEL	116.6	57	201.2	-57.1	2.9	-24.6	-1.8		0.0	2.3	0.0	6.7	45.0
Reformer-Burner Reformer East	CNEL	97.3	269	159.3	-55.0	2.8	0.0	-1.4		0.0	0.1	0.0	6.7	53.4
Reformer-Burner Reformer North	CNEL	95.9	192	170.2	-55.6	2.8	-17.4	-0.8		0.0	0.0	0.0	6.7	31.5
Reformer-Burner Reformer South	CNEL	95.8	191	161.1	-55.1	2.8	-3.2	-1.3		0.0	1.7	0.0	6.7	49.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Reformer-Burner Reformer West	CNEL	97.3	268	170.9	-55.6	2.8	-21.3	-0.9		0.0	0.2	0.0	6.7	32.0
RFG A from battery to process	CNEL	99.4	87	198.9	-57.0	2.8	-3.7	-6.2		0.0	0.2	0.0	6.7	42.3
RFG A from battery to process w NC	CNEL	115.2	42	196.1	-56.8	2.9	-24.8	-5.7		0.0	2.0	0.0	6.7	39.4
Stack Noise	CNEL	108.4		150.6	-54.5	2.7	-3.7	-0.6		-6.0	0.0	0.0	6.7	53.0
Steam Turbine-Facade 01	CNEL	99.6	29	217.3	-57.7	3.7	-24.4	-4.1		0.0	0.2	0.0	6.7	24.0
Steam Turbine-Facade 02	CNEL	96.2	13	213.2	-57.6	3.7	-23.6	-3.5		0.0	0.0	0.0	6.7	21.9
Steam Turbine-Facade 03	CNEL	99.6	29	214.6	-57.6	3.7	-23.7	-3.4		0.0	0.8	0.0	6.7	26.0
Steam Turbine-Facade 04	CNEL	96.2	13	218.8	-57.8	3.7	-24.2	-3.8		0.0	1.4	0.0	6.7	22.2
Steam Turbine-Roof 01	CNEL	99.7	30	215.9	-57.7	3.0	-22.7	-2.9		0.0	0.4	0.0	6.7	26.5
Tank Farm Pump 1	CNEL	99.0	3	175.3	-55.9	3.8	-17.9	-0.8		0.0	0.2	0.0	6.7	35.1
Tank Farm Pump 2	CNEL	99.0	3	182.7	-56.2	3.8	-20.1	-1.0		0.0	0.0	0.0	6.7	32.2
Tank Farm Pump 3	CNEL	99.0	3	185.4	-56.4	3.9	-21.0	-1.0		0.0	0.1	0.0	6.7	31.2
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	424.2	-63.5	4.0	-10.6	-2.7	-0.05	0.0	0.2	-13.8	0.0	25.8
XF-1502 Splitter Area 1	CNEL	104.5		250.9	-59.0	2.7	-17.0	-0.9	-0.05	-2.9	0.9	0.0	6.7	35.0
XF-1502 Splitter Area 2	CNEL	104.5		252.9	-59.1	2.7	-17.3	-0.9	-0.04	-2.9	1.0	0.0	6.7	34.7
XF-1504 Splitter Area 1	CNEL	104.5		247.2	-58.9	2.7	-17.4	-0.9	-0.02	-2.9	1.0	0.0	6.7	34.7
XF-1504 Splitter Area 2	CNEL	104.5		249.2	-58.9	2.7	-17.6	-0.9	-0.02	-2.9	1.0	0.0	6.7	34.6
XF 251, 250, 271, 270	CNEL	101.1	128	274.6	-59.8	2.8	-13.6	-0.4		-1.4	0.0	0.0	6.7	35.5
XF 260, 261A, 261 B	CNEL	99.9	97	288.9	-60.2	2.8	-4.7	-0.8	0.00	-2.5	0.0	0.0	6.7	41.0
XF 304, XF 321	CNEL	110.5	56	297.8	-60.5	2.4	-13.8	-0.5	-0.04	-1.7	0.0	0.0	6.7	43.1
XF 313, XF 314	CNEL	113.0	18	288.6	-60.2	2.4	-17.1	-0.7		-2.7	0.9	0.0	6.7	42.3
XF 335-1, XF 335-2	CNEL	113.4	54	293.6	-60.3	2.4	-15.7	-0.6	-0.05	-1.8	0.0	0.0	6.7	44.0
XF 353A/B	CNEL	95.4	35	302.4	-60.6	2.8	-0.3	-1.2	-0.05	-3.2	0.0	0.0	6.7	39.6
XF 353A/B	CNEL	95.4	35	280.2	-59.9	2.8	-0.8	-1.1		-3.1	0.0	0.0	6.7	40.0
XF 354A/B	CNEL	95.4	35	324.1	-61.2	2.8	-8.0	-0.6	0.00	-2.0	0.0	0.0	6.7	33.1
XF 503	CNEL	113.0	21	303.3	-60.6	2.7	-15.4	-1.0	-0.42	-2.9	0.4	0.0	6.7	42.5
XF - 1601	CNEL	96.6		241.0	-58.6	2.6	-7.9	-0.5		-1.8	0.8	0.0	6.7	37.9
XF - 1602	CNEL	96.6		236.2	-58.5	2.6	-8.0	-0.5		-1.8	0.9	0.0	6.7	38.0
XF Module 1510	CNEL	108.3		259.8	-59.3	2.7	-17.5	-0.9	-0.24	-2.9	0.9	0.0	6.7	37.8
XF Module 1519	CNEL	109.0		257.0	-59.2	2.7	-17.0	-0.9	-0.24	-2.9	0.8	0.0	6.7	38.9
xxxx xxxx xxxx xxxx	CNEL		606								9.7			35.6
xxxx xxxx xxxx xxxx	CNEL		606								10.1			36.0
xxxx xxxx xxxx xxxx	CNEL		917								3.6			23.7
xxxx xxxx xxxx xxxx	CNEL		917								3.6			24.2
xxxx xxxx xxxx xxxx	CNEL		608								7.5			26.7
xxxx xxxx xxxx xxxx	CNEL		608								7.5			26.8
xxxx xxxx xxxx xxxx	CNEL		228								15.1			23.6
xxxx xxxx xxxx xxxx	CNEL		520								11.1			44.4
xxxx xxxx xxxx xxxx	CNEL		1341								3.7			46.2
xxxx xxxx xxxx xxxx	CNEL		450								9.5			22.8
Receiver CA-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 58.3 dB(A)		Ld 7-19 dB(A)		Leq,N 58.2 dB(A)		Le 19-22 dB(A)		CNEL 64.9 dB(A)		Lmax day hr dB(A)	Ld 7-1
ID Fan Motor	CNEL	104.4	2	152.1	-54.6	2.9	-22.1	-1.0		0.0	2.9	0.0	6.7	39.1
18-1855 A/B	CNEL	98.8		234.2	-58.4	4.4	-19.9	-0.8		0.0	0.0	0.0	6.7	30.8
18-1856 A/B	CNEL	98.8		232.2	-58.3	4.4	-19.5	-0.8		0.0	0.3	0.0	6.7	31.6
18-1857 A/B	CNEL	98.8		236.3	-58.5	4.4	-20.4	-0.8		0.0	0.1	0.0	6.7	30.3
18-1858 A/B	CNEL	98.8		238.0	-58.5	4.1	-17.6	-0.7		0.0	0.0	0.0	6.7	32.8
18-PK 1802 Air Compressor Package	CNEL	103.1		242.2	-58.7	4.6	-12.2	-0.4		0.0	0.0	0.0	6.7	43.1
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	344.6	-61.7	4.6	-12.8	-2.2	-0.05	0.0	0.0	-4.8	1.0	33.1
Air Compressor C 1	CNEL	110.0	5	290.5	-60.3	4.3	-21.8	-0.8		0.0	2.9	0.0	6.7	41.0
Air Compressor Pump	CNEL	100.3		275.8	-59.8	4.4	-24.1	-3.0		0.0	0.0	0.0	6.7	24.6
Blower F 401	CNEL	113.0		332.4	-61.4	4.3	-15.6	-0.4	-0.22	0.0	0.0	0.0	6.7	46.3
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	352.0	-61.9	4.6	-11.0	-0.9	-1.61	0.0	0.2	0.0	6.7	34.6
Boiler Feed Water Pump A	CNEL	97.1	3	209.0	-57.4	4.0	-17.4	-0.6		0.0	2.8	0.0	6.7	35.2
Boiler Feed Water Pump B	CNEL	97.1	3	212.1	-57.5	4.1	-17.8	-0.7		0.0	4.4	0.0	6.7	36.2
C370 A Motor	CNEL	103.6	3	239.0	-58.6	3.4	-13.7	-0.9		0.0	0.0	0.0	6.7	40.6
C370 B Motor	CNEL	108.6	3	232.9	-58.3	3.3	-17.8	-0.9		0.0	0.0	0.0	6.7	41.6
C370A	CNEL	103.8	5	235.4	-58.4	3.4	-11.5	-0.9		0.0	0.0	0.0	6.7	43.0
C370B	CNEL	103.8	5	229.2	-58.2	3.3	-17.1	-0.9		0.0	0.0	0.0	6.7	37.6
C-270 A	CNEL	106.3	6	294.3	-60.4	4.0	-0.4	-2.1	-0.63	0.0	0.0	0.0	6.7	53.6
C-270 B	CNEL	106.3	6	294.9	-60.4	4.0	-0.4	-2.1	-0.64	0.0	0.0	0.0	6.7	53.5
C-270 C	CNEL	106.3	6	295.5	-60.4	4.0	-0.4	-2.1	-0.23	0.0	0.1	0.0	6.7	53.9
C-301 Compressor	CNEL	106.8	3	268.6	-59.6	3.8	-0.4	-2.0	-0.12	0.0	0.1	0.0	6.7	55.3
C-301 Motor	CNEL	106.8	4	268.7	-59.6	3.9	-0.4	-2.9	-0.12	0.0	0.0	0.0	6.7	54.3
C-351 Compressor	CNEL	106.8	4	286.5	-60.1	4.0	-4.5	-1.5	-0.49	0.0	0.0	0.0	6.7	50.8
C-351 Motor	CNEL	106.8	5	291.3	-60.3	3.7	-3.7	-2.5	-0.62	0.0	0.0	0.0	6.7	50.1
Cars Pumping 6 times in during delivery	CNEL	134.7	361	353.3	-62.0	4.7	-12.3	-0.6	-0.14	0.0	0.0	-35.6	0.0	28.8
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	335.0	-61.5	4.0	-17.9	-0.7	-0.73	1.2	0.0	0.0	6.7	35.8
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	329.0	-61.3	4.0	-16.2	-0.8	-0.60	0.0	0.0	0.0	6.7	32.3
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	338.1	-61.6	4.0	-12.9	-0.6	-0.35	3.6	0.0	0.0	6.7	45.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	344.7	-61.7	4.0	-22.1	-1.0	-0.53	-6.4	0.0	0.0	6.7	29.6
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	332.0	-61.4	4.0	-22.3	-1.0	-0.61	-6.5	0.0	0.0	6.7	22.7
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	351.1	-61.9	4.1	-20.7	-1.1	-0.24	-7.8	0.0	0.0	6.7	19.4
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	270.7	-59.6	3.8	-17.8	-0.6		1.7	0.0	0.0	6.7	32.0
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	281.1	-60.0	3.8	-21.6	-1.0		-7.8	0.0	0.0	6.7	17.9
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	251.5	-59.0	3.4	-17.6	-0.6		2.0	0.0	0.0	6.7	35.3
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	265.9	-59.5	3.5	-22.3	-1.0		-7.8	8.2	0.0	6.7	28.5
Cooling Tower M 512	CNEL	95.7		279.6	-59.9	4.4	-23.9	-1.2		0.0	0.0	0.0	6.7	21.7
Cooling Tower M 513	CNEL	95.7		280.9	-60.0	4.4	-23.6	-1.2		0.0	0.0	0.0	6.7	22.0
Cooling Tower M 514	CNEL	95.7		278.5	-59.9	4.4	-23.2	-1.2		0.0	0.0	0.0	6.7	22.5
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	187.4	-56.4	2.7	-15.4	-0.3		-1.4	0.1	0.0	6.7	31.8
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	151.4	-54.6	2.9	-11.6	0.0		0.0	0.2	0.0	6.7	38.9
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	150.3	-54.5	3.0	-12.9	0.0		0.0	0.0	0.0	6.7	35.3
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	152.1	-54.6	2.8	-9.0	0.0		0.0	0.1	0.0	6.7	39.3
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	153.9	-54.7	2.9	-12.7	0.0		0.0	0.2	0.0	6.7	35.5
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	152.8	-54.7	2.9	-12.1	0.0		0.0	0.1	0.0	6.7	38.1
FD Motor	CNEL	103.3	2	150.7	-54.6	2.9	-22.8	-1.3		0.0	4.0	0.0	6.7	38.1
Feed Compressor -B Motor	CNEL	103.8	5	225.7	-58.1	3.3	-20.2	-1.3		0.0	0.3	0.0	6.7	34.4
Feed Compressor-A Compressor	CNEL	104.0	5	227.6	-58.1	3.5	-16.2	-0.7		0.0	0.0	0.0	6.7	39.1
Feed Compressor-A Motor	CNEL	103.8	6	232.1	-58.3	3.3	-16.9	-1.1		0.0	1.0	0.0	6.7	38.5
Feed Compressor-B Compressor	CNEL	104.0	7	220.4	-57.9	3.4	-18.3	-0.7		0.0	0.1	0.0	6.7	37.3
H2S Compressor 18-C-271	CNEL	105.3	6	302.2	-60.6	4.2	-18.8	-0.9	-0.43	0.0	0.0	0.0	6.7	35.4
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-18.7	-0.8	-1.56	0.0	1.6	0.0	6.7	24.2
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-14.4	-0.7	-1.53	0.0	0.0	0.0	6.7	26.9
Heater # 5-Heater	CNEL	91.1	13	348.3	-61.8	4.6	-18.1	-0.8	-1.54	0.0	0.7	0.0	6.7	23.9
Hydro Heater H-402	CNEL	98.1		302.2	-60.6	4.3	-22.5	-1.0		0.0	0.0	0.0	6.7	25.1
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	153.3	-54.7	3.1	-12.0	0.0		0.0	0.3	0.0	6.7	30.4
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	155.4	-54.8	3.1	-13.9	0.0		0.0	0.0	0.0	6.7	28.3
ID Fan-ID Fan - North	CNEL	92.2	8	153.5	-54.7	3.1	-11.6	0.0		0.0	0.0	0.0	6.7	35.7
ID Fan-ID Fan - North 2	CNEL	91.4	7	153.2	-54.7	3.0	-10.0	0.0		0.0	0.0	0.0	6.7	36.4
ID Fan-ID Fan - South	CNEL	92.3	9	156.4	-54.9	3.2	-13.9	0.0		0.0	0.0	0.0	6.7	33.3
ID Fan-ID Fan - South 2	CNEL	91.4	7	154.5	-54.8	3.1	-15.2	0.0		0.0	0.0	0.0	6.7	31.1
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	154.6	-54.8	2.9	-9.9	0.0		0.0	0.0	0.0	6.7	38.9
Motor & Pump P 56A/B	CNEL	93.7		301.1	-60.6	4.5	-22.1	-1.6	-0.49	0.0	0.1	0.0	6.7	20.1
Motor & Pump P 120/121	CNEL	96.2	2	294.2	-60.4	4.4	-20.7	-1.0	-0.24	0.0	0.0	0.0	6.7	25.1
Motor & Pump P 211/212	CNEL	93.7		330.4	-61.4	4.7	-20.0	-1.4	-0.99	0.0	0.0	0.0	6.7	21.2
Motor & Pump P 215/214	CNEL	94.6		328.1	-61.3	4.7	-23.0	-2.1	-0.41	0.0	1.5	0.0	6.7	20.7
Motor & Pump P 216	CNEL	98.3		335.9	-61.5	4.6	-19.6	-1.4	-1.16	0.0	0.0	0.0	6.7	25.9
Motor & Pump P 217/218	CNEL	93.7		329.7	-61.4	4.9	-20.3	-1.5	-1.00	0.0	0.0	0.0	6.7	21.1
Motor & Pump P 300	CNEL	97.1	2	304.7	-60.7	4.5	-19.4	-0.9		0.0	0.0	0.0	6.7	27.3
Motor & Pump P 301	CNEL	102.1	2	305.2	-60.7	4.5	-19.4	-0.9	0.00	0.0	0.2	0.0	6.7	32.3
Motor & Pump P 302	CNEL	97.1	2	304.1	-60.7	4.5	-19.3	-0.9		0.0	0.0	0.0	6.7	27.4
Motor & Pump P 303	CNEL	97.1	2	303.7	-60.6	4.4	-19.1	-0.9		0.0	0.0	0.0	6.7	27.5
Motor & Pump P 305	CNEL	97.5	2	303.3	-60.6	4.4	-21.1	-1.0		0.0	1.3	0.0	6.7	27.1
Motor & Pump P 306	CNEL	112.6	4	300.4	-60.5	4.1	-21.4	-1.2		0.0	0.1	0.0	6.7	40.4
Motor & Pump P 307	CNEL	102.1	2	306.9	-60.7	4.5	-19.9	-1.0	-0.24	0.0	1.9	0.0	6.7	33.4
Motor & Pump P 309	CNEL	97.5	2	302.8	-60.6	4.4	-22.9	-1.1		0.0	0.1	0.0	6.7	24.1
Motor & Pump P 312	CNEL	101.5	2	315.1	-61.0	4.7	-20.2	-1.0	-0.43	0.0	0.0	0.0	6.7	30.3
Motor & Pump P 313	CNEL	101.5	2	315.9	-61.0	4.7	-20.1	-1.0	-0.50	0.0	0.0	0.0	6.7	30.4
Motor & Pump P 315	CNEL	102.9	2	318.8	-61.1	4.6	-20.4	-1.0	-0.25	0.0	1.6	0.0	6.7	33.1
Motor & Pump P 316	CNEL	102.9	2	319.7	-61.1	4.6	-18.8	-1.0	-0.58	0.0	0.1	0.0	6.7	32.8
Motor & Pump P 317	CNEL	102.9	2	320.5	-61.1	4.6	-19.2	-1.0	-0.51	0.0	0.0	0.0	6.7	32.4
Motor & Pump P 318	CNEL	100.2	1	317.5	-61.0	4.8	-20.7	-1.0	-0.58	0.0	0.9	0.0	6.7	29.2
Motor & Pump P 319	CNEL	100.2	1	316.9	-61.0	4.7	-19.4	-1.0	-0.58	0.0	0.5	0.0	6.7	30.1
Motor & Pump P 327	CNEL	111.2	3	298.9	-60.5	4.4	-23.1	-1.8		0.0	1.0	0.0	6.7	37.9
Motor & Pump P 328	CNEL	109.9	5	302.1	-60.6	4.3	-22.6	-1.1		0.0	0.1	0.0	6.7	36.6
Motor & Pump P 329	CNEL	110.2	5	301.2	-60.6	4.3	-22.8	-1.1		0.0	0.0	0.0	6.7	36.6
Motor & Pump P 451	CNEL	93.7		304.9	-60.7	4.5	-21.6	-1.5		0.0	0.0	0.0	6.7	21.1
Motor & Pump P 453	CNEL	93.7		309.2	-60.8	4.5	-21.3	-1.4		0.0	0.3	0.0	6.7	21.7
Motor & Pump P 454	CNEL	93.7		305.9	-60.7	4.5	-21.5	-1.5		0.0	0.0	0.0	6.7	21.2
Motor & Pump P 457	CNEL	93.7		310.1	-60.8	4.5	-21.2	-1.4		0.0	0.7	0.0	6.7	22.1
Motor & Pump P 458	CNEL	93.7		304.0	-60.6	4.5	-21.3	-1.5		0.0	0.0	0.0	6.7	21.5
Motor & Pump P 459	CNEL	93.7		305.4	-60.7	4.5	-21.5	-1.5		0.0	0.0	0.0	6.7	21.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		277.6	-59.9	4.4	-21.8	-1.5	-0.34	0.0	0.0	0.0	6.7	23.9
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		276.7	-59.8	4.4	-21.9	-1.5	-0.34	0.0	1.5	0.0	6.7	25.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		253.4	-59.1	4.3	-24.2	-1.9	-0.21	0.0	0.0	0.0	6.7	21.0	
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		252.9	-59.1	4.3	-23.8	-1.7	-0.13	0.0	0.0	0.0	6.7	21.7	
Motor & Pump P 1601 A	CNEL	96.3	2	253.1	-59.1	4.1	-20.9	-1.2		0.0	0.0	0.0	6.7	25.9	
Motor & Pump P 1601 B	CNEL	96.3	2	251.9	-59.0	4.1	-20.9	-1.2		0.0	0.0	0.0	6.7	25.9	
Motor & Pump P 1602 A	CNEL	96.3	2	251.0	-59.0	4.1	-21.0	-1.2		0.0	0.0	0.0	6.7	25.9	
Motor & Pump P 1602 B	CNEL	96.5	2	249.7	-58.9	4.1	-21.0	-1.2		0.0	0.0	0.0	6.7	26.1	
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	269.2	-59.6	4.5	-22.1	-1.5	-0.20	0.0	2.6	0.0	6.7	27.0	
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	266.8	-59.5	4.4	-22.2	-1.5	-0.20	0.0	2.6	0.0	6.7	26.9	
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	265.6	-59.5	4.4	-22.3	-1.5	-0.20	0.0	2.7	0.0	6.7	26.9	
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	275.5	-59.8	4.4	-21.9	-1.5	-0.34	0.0	1.5	0.0	6.7	25.8	
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	274.6	-59.8	4.4	-22.0	-1.5	-0.34	0.0	2.5	0.0	6.7	26.8	
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	257.1	-59.2	4.4	-22.6	-1.5	-0.02	0.0	0.1	0.0	6.7	24.1	
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	259.1	-59.3	4.4	-22.5	-1.5	-0.08	0.0	0.0	0.0	6.7	24.0	
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	262.7	-59.4	4.4	-22.9	-1.6	-0.19	0.0	1.7	0.0	6.7	24.9	
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	261.1	-59.3	4.4	-22.8	-1.6	-0.14	0.0	0.0	0.0	6.7	23.6	
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	265.9	-59.5	3.9	-21.0	-1.0		0.0	0.0	0.0	6.7	33.3	
P-2 A/B	CNEL	98.5		331.4	-61.4	5.0	-19.1	-1.1		0.0	0.0	0.0	6.7	28.7	
P-50 A/B	CNEL	98.1		301.0	-60.6	5.0	-19.0	-1.0	-0.82	0.0	0.0	0.0	6.7	28.4	
P-51 A/B	CNEL	98.1		305.1	-60.7	5.0	-18.8	-1.0	-0.89	0.0	0.0	0.0	6.7	28.4	
P-060 A/B	CNEL	98.1		290.8	-60.3	4.9	-23.6	-1.2	-0.64	0.0	0.0	0.0	6.7	24.0	
P-63	CNEL	98.5		333.1	-61.4	5.0	-18.3	-1.0	-1.02	0.0	0.0	0.0	6.7	28.5	
P-70 A/B	CNEL	98.1		295.3	-60.4	4.9	-20.0	-1.0	-0.72	0.0	0.0	0.0	6.7	27.6	
P-73 A/B	CNEL	98.5		330.2	-61.4	5.0	-19.3	-1.1		0.0	0.0	0.0	6.7	28.4	
P-251 A/B	CNEL	98.2		287.3	-60.2	4.9	-18.6	-0.9	-0.47	0.0	0.1	0.0	6.7	29.7	
P-252 A/B	CNEL	98.2		275.9	-59.8	4.9	-18.7	-0.9	-0.21	0.0	0.0	0.0	6.7	30.1	
P-253	CNEL	98.2		273.6	-59.7	4.9	-17.1	-0.8	-0.21	0.0	0.0	0.0	6.7	31.9	
P-254 A/B	CNEL	98.2		283.8	-60.1	4.9	-16.0	-0.8	-0.46	0.0	0.0	0.0	6.7	32.4	
P-255 A/B	CNEL	98.2		284.8	-60.1	4.9	-16.2	-0.8	-0.46	0.0	0.0	0.0	6.7	32.2	
P-255 A/B	CNEL	98.2		289.5	-60.2	4.9	-16.8	-0.8	-0.47	0.0	0.2	0.0	6.7	31.6	
P-256 A/B	CNEL	98.2		286.1	-60.1	4.9	-16.4	-0.8	-0.47	0.0	0.0	0.0	6.7	32.0	
P-259 A/B	CNEL	98.2		288.3	-60.2	4.9	-19.4	-0.9	-0.47	0.0	0.1	0.0	6.7	28.9	
P-260	CNEL	99.1		282.4	-60.0	4.9	-17.4	-0.8	-0.22	0.0	0.0	0.0	6.7	32.3	
P-261 A/B	CNEL	98.0		292.3	-60.3	4.9	-17.2	-0.8	-0.23	0.0	0.1	0.0	6.7	31.1	
P-262 A/B	CNEL	99.1		285.7	-60.1	4.9	-17.5	-0.8	-0.22	0.0	0.0	0.0	6.7	32.1	
P-263 A/B	CNEL	99.4		283.9	-60.1	4.9	-17.5	-0.8	-0.21	0.0	0.0	0.0	6.7	32.4	
P-270 A/B	CNEL	98.5		273.4	-59.7	4.9	-4.7	-1.4	-0.21	0.0	0.0	0.0	6.7	44.0	
P-271 A/B	CNEL	98.2		281.3	-60.0	4.9	-19.7	-0.9	-0.46	0.0	0.0	0.0	6.7	28.7	
P-272 A/B	CNEL	98.2		282.5	-60.0	4.9	-15.4	-0.8	-0.46	0.0	0.0	0.0	6.7	33.1	
P-273 A/B	CNEL	98.5		274.0	-59.7	4.9	-4.7	-1.4	-0.21	0.0	0.0	0.0	6.7	44.0	
P-275 A/B/C	CNEL	98.2		270.3	-59.6	4.8	-19.6	-0.8	-0.20	0.0	0.0	0.0	6.7	29.4	
P-305	CNEL	99.3		330.1	-61.4	5.0	-5.0	-1.3	-1.49	0.0	0.0	0.0	6.7	41.9	
P-306	CNEL	100.8		329.9	-61.4	5.0	-5.5	-1.2	-1.50	0.0	1.8	0.0	6.7	44.8	
P-309	CNEL	99.3		330.0	-61.4	5.0	-9.2	-1.0	-1.52	0.0	0.0	0.0	6.7	37.9	
P-328	CNEL	100.8		330.0	-61.4	5.0	-4.3	-1.5	-1.47	0.0	0.2	0.0	6.7	44.0	
P-329	CNEL	100.8		329.8	-61.4	5.0	-3.0	-1.4	-1.47	0.0	2.8	0.0	6.7	48.1	
P-353	CNEL	98.5		316.0	-61.0	4.7	-9.9	-1.0	-1.20	0.0	0.0	0.0	6.7	36.8	
P-358 A/B	CNEL	99.4		291.4	-60.3	4.9	-9.8	-1.0	-0.64	0.0	0.0	0.0	6.7	39.3	
P-359 A/B	CNEL	99.4		296.1	-60.4	4.9	-9.8	-1.0	-0.75	0.0	0.0	0.0	6.7	39.1	
P-360 A/B	CNEL	99.4		305.4	-60.7	5.0	-9.6	-1.0	-0.96	0.0	0.0	0.0	6.7	38.8	
P-361A	CNEL	98.1		270.1	-59.6	4.5	-20.1	-1.0	-0.26	0.0	0.0	0.0	6.7	28.4	
P-371 A/B	CNEL	98.0		263.9	-59.4	4.4	-22.3	-1.0		0.0	0.0	0.0	6.7	26.4	
P-373 A/B	CNEL	98.0		249.4	-58.9	4.4	-10.1	-0.8		0.0	0.0	0.0	6.7	39.1	
P-374 A/B	CNEL	98.0		252.0	-59.0	4.4	-22.7	-1.0		0.0	0.0	0.0	6.7	26.4	
P-375 A/B	CNEL	98.0		258.1	-59.2	4.4	-15.4	-0.7		0.0	0.0	0.0	6.7	33.7	
P-376	CNEL	98.0		253.8	-59.1	4.4	-22.1	-1.0		0.0	0.0	0.0	6.7	26.9	
P-376 A/B	CNEL	98.0		246.4	-58.8	4.3	-9.9	-0.8		0.0	0.2	0.0	6.7	39.7	
P-377	CNEL	98.0		255.4	-59.1	4.4	-22.0	-1.0		0.0	0.0	0.0	6.7	26.9	
P-1101 A	CNEL	98.9		310.3	-60.8	4.7	-20.4	-1.1		0.0	0.0	0.0	6.7	28.0	
P-1103	CNEL	98.9		309.8	-60.8	4.7	-20.3	-1.1		0.0	0.0	0.0	6.7	28.0	
P-1105 A/B/C	CNEL	98.9		311.6	-60.9	4.7	-19.9	-1.0		0.0	0.0	0.0	6.7	28.5	
P-1800	CNEL	98.9		359.8	-62.1	5.1	-23.2	-1.3		0.0	0.0	0.0	6.7	24.0	
P-1801	CNEL	98.9		374.5	-62.5	5.1	-24.6	-1.7		0.0	2.3	0.0	6.7	24.3	
P-1802	CNEL	98.9		372.2	-62.4	5.1	-24.5	-1.7		0.0	2.2	0.0	6.7	24.4	
P-1803	CNEL	99.1		261.2	-59.3	4.8	-14.6	-0.8		0.0	0.0	0.0	6.7	35.8	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1804	CNEL	99.1		279.5	-59.9	4.9	-21.1	-1.0		0.0	0.0	0.0	6.7	28.6
P-1805	CNEL	99.1		280.3	-59.9	4.9	-20.8	-1.0		0.0	0.0	0.0	6.7	28.8
P-1806	CNEL	99.1		256.8	-59.2	4.8	-17.6	-0.8		0.0	0.0	0.0	6.7	33.0
P-1809 A	CNEL	98.9		358.9	-62.1	5.1	-23.5	-1.3		0.0	2.6	0.0	6.7	26.3
P-1810 A/B/C	CNEL	99.0		269.8	-59.6	4.8	-19.9	-1.0		0.0	0.0	0.0	6.7	30.0
P-1811 A/B	CNEL	99.1		257.9	-59.2	4.8	-20.8	-1.0		0.0	0.0	0.0	6.7	29.6
P-1811 A/B	CNEL	99.1		281.4	-60.0	4.9	-24.2	-1.3		0.0	0.0	0.0	6.7	25.2
P-1847 A/B	CNEL	99.4		193.7	-56.7	4.4	-21.0	-0.6		0.0	0.8	0.0	6.7	33.0
P-1849 A/B	CNEL	99.4		195.5	-56.8	4.5	-21.0	-0.6		0.0	0.9	0.0	6.7	33.0
P-1853	CNEL	99.1		321.4	-61.1	5.0	-14.1	-0.9	-0.52	0.0	0.0	0.0	6.7	34.1
Piping Furnace Tanks	CNEL	87.1	72	188.0	-56.5	2.8	-5.2	-6.3		0.0	0.1	0.0	6.7	28.6
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	209.4	-57.4	2.9	-4.6	-6.3		0.0	0.4	0.0	6.7	40.0
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	208.8	-57.4	3.0	-21.7	-1.7		0.0	0.3	0.0	6.7	43.8
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	207.7	-57.3	3.0	-18.7	-4.2		0.0	0.9	0.0	6.7	45.5
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	251.0	-59.0	3.1	-23.9	-1.1		0.0	0.1	0.0	6.7	36.4
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	221.7	-57.9	3.1	-15.4	-0.8		0.0	0.4	0.0	6.7	47.2
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	216.0	-57.7	3.0	-13.1	-0.9		0.0	0.7	0.0	6.7	42.8
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	256.9	-59.2	3.1	-23.1	-1.1		0.0	0.8	0.0	6.7	38.4
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	231.5	-58.3	3.0	-22.6	-0.9		0.0	0.7	0.0	6.7	32.6
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	214.2	-57.6	3.0	-10.8	-0.9		0.0	0.0	0.0	6.7	44.2
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	221.7	-57.9	3.1	-12.4	-0.9		0.0	1.0	0.0	6.7	46.3
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	240.0	-58.6	3.1	-19.9	-0.9		0.0	0.5	0.0	6.7	37.1
Pre-Treat Train-Roof 01	CNEL	113.1	2037	237.5	-58.5	2.8	-10.5	-0.9		0.0	0.4	0.0	6.7	53.1
PSA Pipe 3" Lagging	CNEL	80.6	11	196.2	-56.8	2.8	0.0	-1.9		0.0	0.1	0.0	6.7	31.3
PSA Skid Additional Piping w NC	CNEL	116.6	57	211.2	-57.5	3.0	-24.5	-1.8		0.0	0.7	0.0	6.7	43.2
Reformer-Burner Reformer East	CNEL	97.3	269	166.6	-55.4	2.8	-4.9	-1.2		0.0	0.0	0.0	6.7	48.2
Reformer-Burner Reformer North	CNEL	95.9	192	177.9	-56.0	2.8	-16.2	-0.8		0.0	0.1	0.0	6.7	32.4
Reformer-Burner Reformer South	CNEL	95.8	191	166.8	-55.4	2.8	-15.1	-0.6		0.0	3.8	0.0	6.7	40.5
Reformer-Burner Reformer West	CNEL	97.3	268	177.6	-56.0	2.8	-23.2	-1.2		0.0	0.3	0.0	6.7	29.7
RFG A from battery to process	CNEL	99.4	87	206.1	-57.3	2.9	-5.0	-6.3		0.0	0.2	0.0	6.7	40.5
RFG A from battery to process w NC	CNEL	115.2	42	205.8	-57.3	2.9	-21.7	-4.4		0.0	1.2	0.0	6.7	42.6
Stack Noise	CNEL	108.4		154.6	-54.8	2.7	-5.1	-0.5		-5.8	0.0	0.0	6.7	51.7
Steam Turbine-Facade 01	CNEL	99.6	29	226.7	-58.1	3.8	-24.5	-4.3		0.0	0.0	0.0	6.7	23.2
Steam Turbine-Facade 02	CNEL	96.2	13	222.5	-57.9	3.8	-23.7	-3.7		0.0	0.0	0.0	6.7	21.4
Steam Turbine-Facade 03	CNEL	99.6	29	224.2	-58.0	3.8	-23.9	-3.6		0.0	0.0	0.0	6.7	24.6
Steam Turbine-Facade 04	CNEL	96.2	13	228.4	-58.2	3.9	-24.2	-3.9		0.0	0.0	0.0	6.7	20.5
Steam Turbine-Roof 01	CNEL	99.7	30	225.4	-58.1	3.1	-22.6	-3.0		0.0	0.0	0.0	6.7	25.8
Tank Farm Pump 1	CNEL	99.0	3	169.8	-55.6	3.7	-16.8	-0.8		0.0	0.2	0.0	6.7	36.4
Tank Farm Pump 2	CNEL	99.0	3	175.6	-55.9	3.8	-22.6	-1.0		0.0	0.0	0.0	6.7	29.9
Tank Farm Pump 3	CNEL	99.0	3	177.9	-56.0	3.8	-23.0	-1.1		0.0	3.9	0.0	6.7	33.2
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	435.8	-63.8	4.0	-12.5	-2.3	-0.03	0.0	0.0	-13.8	0.0	23.9
XF-1502 Splitter Area 1	CNEL	104.5		262.9	-59.4	2.7	-17.2	-0.9	-0.05	-2.9	0.1	0.0	6.7	33.5
XF-1502 Splitter Area 2	CNEL	104.5		264.7	-59.4	2.7	-17.2	-0.9	-0.04	-2.9	0.0	0.0	6.7	33.4
XF-1504 Splitter Area 1	CNEL	104.5		259.0	-59.3	2.7	-17.4	-0.9	-0.02	-2.9	0.0	0.0	6.7	33.4
XF-1504 Splitter Area 2	CNEL	104.5		261.0	-59.3	2.7	-17.4	-0.9	-0.02	-2.9	0.0	0.0	6.7	33.4
XF 251, 250, 271, 270	CNEL	101.1	128	276.2	-59.8	2.8	-11.5	-0.4		-1.5	0.0	0.0	6.7	37.4
XF 260, 261A, 261 B	CNEL	99.9	97	293.2	-60.3	2.8	-14.2	-0.4	0.00	-1.3	0.0	0.0	6.7	33.1
XF 304, XF 321	CNEL	110.5	56	311.3	-60.9	2.4	-13.7	-0.5	-0.04	-1.7	0.0	0.0	6.7	42.8
XF 313, XF 314	CNEL	113.0	18	302.6	-60.6	2.4	-16.7	-0.7		-2.7	0.0	0.0	6.7	41.4
XF 335-1, XF 335-2	CNEL	113.4	54	307.4	-60.7	2.4	-15.3	-0.6	-0.05	-1.8	0.0	0.0	6.7	44.0
XF 353A/B	CNEL	95.4	35	299.9	-60.5	2.8	-11.1	-0.5	-0.01	-1.6	0.0	0.0	6.7	31.2
XF 353A/B	CNEL	95.4	35	278.2	-59.9	2.8	-3.0	-0.9		-2.9	0.0	0.0	6.7	38.3
XF 354A/B	CNEL	95.4	35	323.1	-61.2	2.8	-0.3	-1.2		-3.3	0.0	0.0	6.7	38.9
XF 503	CNEL	113.0	21	315.4	-61.0	2.8	-16.8	-1.0	-0.42	-2.8	0.0	0.0	6.7	40.6
XF - 1601	CNEL	96.6		252.2	-59.0	2.6	-7.5	-0.6		-1.9	0.0	0.0	6.7	37.0
XF - 1602	CNEL	96.6		247.3	-58.9	2.6	-7.4	-0.5		-1.9	0.0	0.0	6.7	37.2
XF Module 1510	CNEL	108.3		271.7	-59.7	2.7	-17.5	-1.0	-0.24	-2.9	0.0	0.0	6.7	36.5
XF Module 1519	CNEL	109.0		269.0	-59.6	2.7	-17.4	-0.9	-0.24	-2.9	0.0	0.0	6.7	37.4
xxxx xxxx xxxx xxxx	CNEL		606								7.5			38.6
xxxx xxxx xxxx xxxx	CNEL		606								7.4			38.7
xxxx xxxx xxxx xxxx	CNEL		917								2.6			24.8
xxxx xxxx xxxx xxxx	CNEL		917								2.5			25.2
xxxx xxxx xxxx xxxx	CNEL		608								5.4			24.2
xxxx xxxx xxxx xxxx	CNEL		608								5.6			24.4
xxxx xxxx xxxx xxxx	CNEL		228								14.3			25.0

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Source	Time slice	Lw dB(A)	l or A m,m²	S m	Adiv dB	Agr dB	Abar dB	Aatm dB	Amisc dB	ADI dB	dLrefl dB	dLw dB	ZR dB	Lr dB(A)	
xxxx xxxx xxxx xxxx	CNEL		520								3.9			46.6	
xxxx xxxx xxxx xxxx	CNEL		1341								3.0			44.6	
xxxx xxxx xxxx xxxx	CNEL		450								9.9			21.1	
Receiver CA-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)		Leq,D 55.2 dB(A)		Ld 7-19 dB(A)			Leq,N 55.1 dB(A)		Le 19-22 dB(A)		CNEL 61.8 dB(A)		Lmax day hr dB(A)		Ld 7-1
ID Fan Motor	CNEL	104.4	2	163.7	-55.3	3.0	-21.4	-1.0		0.0	2.6	0.0	6.7	39.0	
18-1855 A/B	CNEL	98.8		242.5	-58.7	4.4	-19.8	-0.8		0.0	0.0	0.0	6.7	30.6	
18-1856 A/B	CNEL	98.8		239.8	-58.6	4.4	-20.3	-0.8		0.0	0.0	0.0	6.7	30.2	
18-1857 A/B	CNEL	98.8		245.1	-58.8	4.4	-19.7	-0.9		0.0	0.0	0.0	6.7	30.5	
18-1858 A/B	CNEL	98.8		247.2	-58.9	4.1	-19.5	-0.8		0.0	0.0	0.0	6.7	30.5	
18-PK 1802 Air Compressor Package	CNEL	103.1		249.0	-58.9	4.6	-14.6	-0.4		0.0	0.0	0.0	6.7	40.5	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	358.5	-62.1	4.7	-15.6	-1.0	-0.13	0.0	0.0	-4.8	1.0	31.2	
Air Compressor C 1	CNEL	110.0	5	312.0	-60.9	4.3	-21.7	-0.8		0.0	3.2	0.0	6.7	40.8	
Air Compressor Pump	CNEL	100.3		288.8	-60.2	4.5	-22.7	-2.2		0.0	0.1	0.0	6.7	26.4	
Blower F 401	CNEL	113.0		350.7	-61.9	4.3	-15.6	-0.4	-0.21	0.0	0.0	0.0	6.7	45.9	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	353.0	-61.9	4.6	-12.2	-0.8	-1.62	0.0	0.5	0.0	6.7	33.8	
Boiler Feed Water Pump A	CNEL	97.1	3	217.4	-57.7	4.0	-17.0	-0.7		0.0	0.0	0.0	6.7	32.4	
Boiler Feed Water Pump B	CNEL	97.1	3	220.5	-57.9	4.1	-17.3	-0.7		0.0	0.0	0.0	6.7	31.9	
C370 A Motor	CNEL	103.6	3	253.7	-59.1	3.5	-19.5	-1.0		0.0	0.5	0.0	6.7	34.7	
C370 B Motor	CNEL	108.6	3	247.0	-58.8	3.4	-21.0	-1.0		0.0	0.6	0.0	6.7	38.4	
C370A	CNEL	103.8	5	250.3	-59.0	3.5	-17.9	-0.9		0.0	0.2	0.0	6.7	36.4	
C370B	CNEL	103.8	5	243.5	-58.7	3.4	-21.3	-1.0		0.0	0.7	0.0	6.7	33.5	
C-270 A	CNEL	106.3	6	297.8	-60.5	4.0	-15.8	-0.8	-0.60	0.0	0.2	0.0	6.7	39.5	
C-270 B	CNEL	106.3	6	298.7	-60.5	4.0	-16.1	-0.8	-0.60	0.0	0.1	0.0	6.7	39.1	
C-270 C	CNEL	106.3	6	299.7	-60.5	4.0	-14.8	-0.9	-0.36	0.0	0.1	0.0	6.7	40.5	
C-301 Compressor	CNEL	106.8	3	271.0	-59.7	3.8	-15.3	-0.8	-0.11	0.0	0.0	0.0	6.7	41.5	
C-301 Motor	CNEL	106.8	4	271.5	-59.7	3.8	-17.4	-1.3	-0.14	0.0	0.0	0.0	6.7	38.8	
C-351 Compressor	CNEL	106.8	4	288.5	-60.2	3.9	-17.5	-0.9	-0.47	0.0	0.0	0.0	6.7	38.4	
C-351 Motor	CNEL	106.8	5	293.3	-60.3	3.7	-15.4	-1.4	-0.66	0.0	0.0	0.0	6.7	39.3	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	367.9	-62.3	4.7	-13.0	-0.5	-0.26	0.0	0.0	-35.6	0.0	27.8	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	355.0	-62.0	4.0	-18.3	-0.7	-0.68	1.1	0.0	0.0	6.7	34.9	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	349.1	-61.9	4.0	-16.6	-0.9	-0.57	0.0	0.0	0.0	6.7	31.4	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	358.5	-62.1	4.0	-13.2	-0.7	-0.33	3.7	0.0	0.0	6.7	44.7	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	364.8	-62.2	4.1	-21.8	-1.0	-0.59	-6.2	0.0	0.0	6.7	29.6	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	352.1	-61.9	4.0	-21.7	-1.0	-0.81	-6.2	0.0	0.0	6.7	22.8	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	371.5	-62.4	4.1	-20.8	-1.1	-0.15	-7.8	0.0	0.0	6.7	18.9	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	289.6	-60.2	3.9	-17.3	-0.7		1.4	0.0	0.0	6.7	31.6	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	300.2	-60.5	3.9	-21.5	-1.0		-7.8	0.0	0.0	6.7	17.6	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	269.7	-59.6	3.4	-19.2	-0.7		1.7	0.0	0.0	6.7	32.9	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	284.5	-60.1	3.6	-22.2	-1.1		-7.8	9.4	0.0	6.7	29.3	
Cooling Tower M 512	CNEL	95.7		298.4	-60.5	4.4	-23.5	-1.3		0.0	0.0	0.0	6.7	21.5	
Cooling Tower M 513	CNEL	95.7		299.7	-60.5	4.4	-23.4	-1.3		0.0	0.0	0.0	6.7	21.6	
Cooling Tower M 514	CNEL	95.7		297.2	-60.5	4.4	-22.9	-1.2		0.0	0.0	0.0	6.7	22.2	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	198.1	-56.9	2.7	-9.6	-0.3		-1.6	0.0	0.0	6.7	36.7	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	164.7	-55.3	3.0	-11.7	0.0		0.0	0.3	0.0	6.7	38.2	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	163.9	-55.3	3.0	-13.3	0.0		0.0	0.0	0.0	6.7	34.2	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	165.6	-55.4	2.8	-8.9	0.0		0.0	0.1	0.0	6.7	38.8	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	167.2	-55.5	3.0	-13.5	0.0		0.0	0.4	0.0	6.7	34.3	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	166.4	-55.4	3.0	-13.9	0.0		0.0	0.1	0.0	6.7	35.7	
FD Motor	CNEL	103.3	2	164.0	-55.3	3.0	-23.0	-1.3		0.0	5.2	0.0	6.7	38.5	
Feed Compressor -B Motor	CNEL	103.8	5	237.2	-58.5	3.3	-19.2	-1.2		0.0	0.1	0.0	6.7	34.9	
Feed Compressor-A Compressor	CNEL	104.0	5	240.4	-58.6	3.5	-15.9	-0.7		0.0	0.0	0.0	6.7	39.0	
Feed Compressor-A Motor	CNEL	103.8	6	244.6	-58.8	3.4	-17.4	-1.2		0.0	0.1	0.0	6.7	36.6	
Feed Compressor-B Compressor	CNEL	104.0	7	232.2	-58.3	3.4	-16.2	-0.7		0.0	0.0	0.0	6.7	38.9	
H2S Compressor 18-C-271	CNEL	105.3	6	323.0	-61.2	4.2	-13.2	-1.1	-0.49	0.0	0.0	0.0	6.7	40.3	
Heater # 5-Heater	CNEL	91.1	13	349.4	-61.9	4.6	-17.8	-0.8	-1.58	0.0	2.1	0.0	6.7	25.4	
Heater # 5-Heater	CNEL	91.1	13	349.8	-61.9	4.6	-18.2	-0.8	-1.57	0.0	0.0	0.0	6.7	22.9	
Heater # 5-Heater	CNEL	91.1	13	349.2	-61.9	4.6	-17.4	-0.8	-1.58	0.0	0.7	0.0	6.7	24.5	
Hydro Heater H-402	CNEL	98.1		321.5	-61.1	4.3	-21.9	-0.9		0.0	0.0	0.0	6.7	25.1	
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	164.7	-55.3	3.2	-10.0	0.0		0.0	0.3	0.0	6.7	31.7	
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	166.7	-55.4	3.2	-12.4	0.0		0.0	0.0	0.0	6.7	29.3	
ID Fan-ID Fan - North	CNEL	92.2	8	165.1	-55.3	3.2	-10.1	0.0		0.0	0.0	0.0	6.7	36.6	
ID Fan-ID Fan - North 2	CNEL	91.4	7	164.5	-55.3	3.2	-7.6	0.0		0.0	0.0	0.0	6.7	38.3	
ID Fan-ID Fan - South	CNEL	92.3	9	167.8	-55.5	3.2	-12.6	0.0		0.0	0.0	0.0	6.7	34.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan - South 2	CNEL	91.4	7	165.7	-55.4	3.1	-14.0	0.0		0.0	0.0	0.0	6.7	31.7
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	166.1	-55.4	2.9	-7.5	0.0		0.0	0.0	0.0	6.7	40.6
Motor & Pump P 56A/B	CNEL	93.7		321.0	-61.1	4.5	-21.9	-1.6	-0.48	0.0	0.0	0.0	6.7	19.7
Motor & Pump P 120/121	CNEL	96.2	2	315.5	-61.0	4.4	-19.9	-1.0	-0.24	0.0	0.1	0.0	6.7	25.3
Motor & Pump P 211/212	CNEL	93.7		349.9	-61.9	4.7	-17.3	-1.4	-0.88	0.0	0.0	0.0	6.7	23.6
Motor & Pump P 215/214	CNEL	94.6		347.8	-61.8	4.7	-19.3	-1.5	-0.98	0.0	0.0	0.0	6.7	22.4
Motor & Pump P 216	CNEL	98.3		355.6	-62.0	4.6	-16.5	-1.5	-1.14	0.0	0.0	0.0	6.7	28.4
Motor & Pump P 217/218	CNEL	93.7		349.2	-61.9	4.9	-18.0	-1.4	-0.96	0.0	0.0	0.0	6.7	23.0
Motor & Pump P 300	CNEL	97.1	2	326.1	-61.3	4.5	-19.5	-1.0		0.0	0.0	0.0	6.7	26.5
Motor & Pump P 301	CNEL	102.1	2	326.6	-61.3	4.5	-19.7	-1.0	-0.04	0.0	0.1	0.0	6.7	31.3
Motor & Pump P 302	CNEL	97.1	2	325.5	-61.2	4.5	-21.3	-1.1		0.0	0.0	0.0	6.7	24.7
Motor & Pump P 303	CNEL	97.1	2	325.2	-61.2	4.4	-18.9	-1.0		0.0	0.1	0.0	6.7	27.1
Motor & Pump P 305	CNEL	97.5	2	324.8	-61.2	4.4	-20.4	-1.0		0.0	1.5	0.0	6.7	27.4
Motor & Pump P 306	CNEL	112.6	4	322.1	-61.2	4.2	-21.4	-1.2		0.0	0.2	0.0	6.7	39.8
Motor & Pump P 307	CNEL	102.1	2	328.2	-61.3	4.5	-18.5	-1.0	-0.24	0.0	1.5	0.0	6.7	33.8
Motor & Pump P 309	CNEL	97.5	2	324.3	-61.2	4.4	-22.8	-1.2		0.0	0.1	0.0	6.7	23.6
Motor & Pump P 312	CNEL	101.5	2	335.9	-61.5	4.7	-18.1	-1.0	-0.53	0.0	0.0	0.0	6.7	31.7
Motor & Pump P 313	CNEL	101.5	2	336.6	-61.5	4.7	-16.5	-1.0	-0.57	0.0	0.0	0.0	6.7	33.2
Motor & Pump P 315	CNEL	102.9	2	339.4	-61.6	4.6	-19.4	-1.0	-0.58	0.0	1.2	0.0	6.7	32.8
Motor & Pump P 316	CNEL	102.9	2	340.2	-61.6	4.6	-18.8	-1.0	-0.52	0.0	0.4	0.0	6.7	32.6
Motor & Pump P 317	CNEL	102.9	2	340.9	-61.6	4.6	-19.0	-1.0	-0.50	0.0	0.0	0.0	6.7	32.0
Motor & Pump P 318	CNEL	100.2	1	338.1	-61.6	4.8	-21.3	-1.1	-0.25	0.0	1.1	0.0	6.7	28.5
Motor & Pump P 319	CNEL	100.2	1	337.5	-61.6	4.8	-19.6	-1.0	-0.57	0.0	0.0	0.0	6.7	28.9
Motor & Pump P 327	CNEL	111.2	3	320.7	-61.1	4.4	-23.2	-1.9		0.0	1.0	0.0	6.7	37.2
Motor & Pump P 328	CNEL	109.9	5	323.7	-61.2	4.3	-22.2	-1.1		0.0	0.1	0.0	6.7	36.5
Motor & Pump P 329	CNEL	110.2	5	322.8	-61.2	4.3	-22.5	-1.2		0.0	0.1	0.0	6.7	36.4
Motor & Pump P 451	CNEL	93.7		324.0	-61.2	4.5	-21.0	-1.5		0.0	0.4	0.0	6.7	21.6
Motor & Pump P 453	CNEL	93.7		327.9	-61.3	4.6	-20.1	-1.4		0.0	0.4	0.0	6.7	22.5
Motor & Pump P 454	CNEL	93.7		325.1	-61.2	4.5	-21.0	-1.5		0.0	0.4	0.0	6.7	21.6
Motor & Pump P 457	CNEL	93.7		328.7	-61.3	4.6	-20.0	-1.4		0.0	0.0	0.0	6.7	22.1
Motor & Pump P 458	CNEL	93.7		323.0	-61.2	4.5	-21.1	-1.5		0.0	0.0	0.0	6.7	21.1
Motor & Pump P 459	CNEL	93.7		324.6	-61.2	4.5	-21.0	-1.5		0.0	0.0	0.0	6.7	21.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		297.3	-60.5	4.5	-21.4	-1.5	-0.33	0.0	0.0	0.0	6.7	23.7
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		296.5	-60.4	4.5	-21.5	-1.5	-0.33	0.0	1.6	0.0	6.7	25.3
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		274.1	-59.7	4.3	-24.0	-1.9	-0.21	0.0	0.4	0.0	6.7	20.9
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		273.6	-59.7	4.3	-22.5	-1.5	-0.13	0.0	0.2	0.0	6.7	22.7
Motor & Pump P 1601 A	CNEL	96.3	2	272.3	-59.7	4.2	-19.9	-1.2		0.0	0.0	0.0	6.7	26.3
Motor & Pump P 1601 B	CNEL	96.3	2	271.0	-59.7	4.1	-19.9	-1.2		0.0	0.0	0.0	6.7	26.3
Motor & Pump P 1602 A	CNEL	96.3	2	270.1	-59.6	4.1	-19.9	-1.2		0.0	0.0	0.0	6.7	26.3
Motor & Pump P 1602 B	CNEL	96.5	2	268.8	-59.6	4.1	-20.0	-1.2		0.0	0.0	0.0	6.7	26.5
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	288.8	-60.2	4.5	-19.9	-1.3	-0.19	0.0	1.6	0.0	6.7	27.7
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	286.5	-60.1	4.5	-21.8	-1.5	-0.20	0.0	2.3	0.0	6.7	26.4
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	285.4	-60.1	4.5	-21.9	-1.5	-0.19	0.0	2.4	0.0	6.7	26.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	295.3	-60.4	4.5	-21.5	-1.5	-0.33	0.0	2.0	0.0	6.7	26.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	294.5	-60.4	4.5	-21.6	-1.5	-0.33	0.0	3.4	0.0	6.7	27.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	277.0	-59.8	4.4	-22.6	-1.6	-0.02	0.0	0.0	0.0	6.7	23.4
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	279.0	-59.9	4.4	-22.2	-1.6	-0.08	0.0	0.0	0.0	6.7	23.6
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	282.7	-60.0	4.4	-22.4	-1.6	-0.18	0.0	0.0	0.0	6.7	23.2
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	281.1	-60.0	4.4	-22.2	-1.5	-0.14	0.0	0.0	0.0	6.7	23.6
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	287.2	-60.2	4.0	-20.3	-1.0		0.0	0.0	0.0	6.7	33.4
P-2 A/B	CNEL	98.5		326.6	-61.3	5.0	-18.2	-1.0		0.0	1.2	0.0	6.7	30.9
P-50 A/B	CNEL	98.1		298.5	-60.5	4.9	-11.7	-0.9	-0.82	0.0	0.3	0.0	6.7	36.1
P-51 A/B	CNEL	98.1		302.7	-60.6	4.9	-11.3	-0.9	-0.88	0.0	0.4	0.0	6.7	36.3
P-060 A/B	CNEL	98.1		288.2	-60.2	4.9	-21.0	-0.9	-0.64	0.0	1.3	0.0	6.7	28.2
P-63	CNEL	98.5		330.5	-61.4	5.0	-9.1	-1.0	-0.78	0.0	0.4	0.0	6.7	38.4
P-70 A/B	CNEL	98.1		292.8	-60.3	4.9	-12.0	-0.8	-0.72	0.0	0.2	0.0	6.7	35.9
P-73 A/B	CNEL	98.5		325.7	-61.2	5.0	-16.6	-1.0		0.0	0.9	0.0	6.7	32.3
P-251 A/B	CNEL	98.2		295.2	-60.4	4.9	-17.9	-0.9	-0.48	0.0	0.0	0.0	6.7	30.1
P-252 A/B	CNEL	98.2		283.8	-60.1	4.8	-17.7	-0.9	-0.22	0.0	0.0	0.0	6.7	30.9
P-253	CNEL	98.2		281.0	-60.0	4.8	-16.1	-0.9	-0.22	0.0	0.0	0.0	6.7	32.5
P-254 A/B	CNEL	98.2		291.0	-60.3	4.9	-16.6	-0.9	-0.47	0.0	0.0	0.0	6.7	31.5
P-255 A/B	CNEL	98.2		292.2	-60.3	4.9	-16.1	-0.9	-0.47	0.0	0.0	0.0	6.7	32.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-255 A/B	CNEL	98.2		297.9	-60.5	4.9	-17.2	-0.9	-0.48	0.0	0.0	0.0	6.7	30.7
P-256 A/B	CNEL	98.2		293.8	-60.4	4.9	-18.2	-0.9	-0.48	0.0	0.0	0.0	6.7	29.8
P-259 A/B	CNEL	98.2		296.5	-60.4	4.9	-16.9	-0.9	-0.48	0.0	0.0	0.0	6.7	31.0
P-260	CNEL	99.1		291.7	-60.3	4.9	-18.8	-0.9	-0.22	0.0	0.0	0.0	6.7	30.5
P-261 A/B	CNEL	98.0		303.2	-60.6	4.9	-11.5	-0.9	-0.24	0.0	0.0	0.0	6.7	36.2
P-262 A/B	CNEL	99.1		295.6	-60.4	4.9	-18.7	-0.9	-0.23	0.0	0.0	0.0	6.7	30.5
P-263 A/B	CNEL	99.4		293.6	-60.3	4.9	-18.9	-0.9	-0.22	0.0	0.0	0.0	6.7	30.7
P-270 A/B	CNEL	98.5		277.3	-59.9	4.8	-18.8	-0.9	-0.22	0.0	0.0	0.0	6.7	30.2
P-271 A/B	CNEL	98.2		287.7	-60.2	4.9	-20.1	-0.9	-0.47	0.0	0.0	0.0	6.7	28.1
P-272 A/B	CNEL	98.2		289.3	-60.2	4.9	-15.6	-0.9	-0.47	0.0	0.0	0.0	6.7	32.6
P-273 A/B	CNEL	98.5		278.2	-59.9	4.8	-19.4	-0.9	-0.22	0.0	0.0	0.0	6.7	29.6
P-275 A/B/C	CNEL	98.2		276.8	-59.8	4.8	-20.2	-0.9	-0.20	0.0	0.0	0.0	6.7	28.6
P-305	CNEL	99.3		332.5	-61.4	5.0	-18.6	-1.0	-1.53	0.0	0.0	0.0	6.7	28.4
P-306	CNEL	100.8		331.6	-61.4	5.0	-12.2	-1.1	-1.52	0.0	0.8	0.0	6.7	37.2
P-309	CNEL	99.3		332.2	-61.4	5.0	-18.1	-1.0	-1.53	0.0	0.0	0.0	6.7	28.9
P-328	CNEL	100.8		331.3	-61.4	5.0	-8.9	-1.1	-1.52	0.0	0.5	0.0	6.7	40.1
P-329	CNEL	100.8		331.3	-61.4	5.0	-10.0	-1.0	-1.52	0.0	0.5	0.0	6.7	39.1
P-353	CNEL	98.5		318.3	-61.0	4.7	-19.1	-1.0	-1.21	0.0	0.0	0.0	6.7	27.5
P-358 A/B	CNEL	99.4		292.3	-60.3	4.9	-7.2	-1.1	-0.64	0.0	0.0	0.0	6.7	41.7
P-359 A/B	CNEL	99.4		297.1	-60.4	4.9	-7.0	-1.1	-0.74	0.0	0.0	0.0	6.7	41.7
P-360 A/B	CNEL	99.4		306.3	-60.7	4.9	-6.5	-1.1	-0.95	0.0	0.2	0.0	6.7	41.9
P-361A	CNEL	98.1		267.3	-59.5	4.5	-14.4	-0.7	-0.27	0.0	0.2	0.0	6.7	34.5
P-371 A/B	CNEL	98.0		280.7	-60.0	4.5	-19.8	-0.9		0.0	0.0	0.0	6.7	28.5
P-373 A/B	CNEL	98.0		265.6	-59.5	4.4	-18.6	-0.8		0.0	0.0	0.0	6.7	30.2
P-374 A/B	CNEL	98.0		268.4	-59.6	4.4	-18.7	-0.8		0.0	0.0	0.0	6.7	30.0
P-375 A/B	CNEL	98.0		274.8	-59.8	4.4	-21.3	-1.0		0.0	0.8	0.0	6.7	27.8
P-376	CNEL	98.0		270.3	-59.6	4.4	-21.0	-1.0		0.0	0.0	0.0	6.7	27.5
P-376 A/B	CNEL	98.0		262.4	-59.4	4.4	-17.4	-0.8		0.0	0.6	0.0	6.7	32.1
P-377	CNEL	98.0		271.9	-59.7	4.4	-21.1	-1.0		0.0	0.0	0.0	6.7	27.3
P-1101 A	CNEL	98.9		305.8	-60.7	4.6	-18.7	-1.0		0.0	0.8	0.0	6.7	30.6
P-1103	CNEL	98.9		305.5	-60.7	4.6	-17.0	-1.0		0.0	0.4	0.0	6.7	31.9
P-1105 A/B/C	CNEL	98.9		306.7	-60.7	4.6	-18.8	-0.9		0.0	0.9	0.0	6.7	30.6
P-1800	CNEL	98.9		354.0	-62.0	5.1	-23.3	-1.3		0.0	3.1	0.0	6.7	27.1
P-1801	CNEL	98.9		365.9	-62.3	5.1	-24.6	-1.6		0.0	4.4	0.0	6.7	26.5
P-1802	CNEL	98.9		363.6	-62.2	5.1	-24.5	-1.6		0.0	4.3	0.0	6.7	26.6
P-1803	CNEL	99.1		257.4	-59.2	4.7	-4.3	-1.4		0.0	1.9	0.0	6.7	47.5
P-1804	CNEL	99.1		274.9	-59.8	4.8	-20.6	-1.0		0.0	0.9	0.0	6.7	30.1
P-1805	CNEL	99.1		275.4	-59.8	4.8	-21.6	-1.0		0.0	1.1	0.0	6.7	29.2
P-1806	CNEL	99.1		255.0	-59.1	4.7	-4.3	-1.4		0.0	1.9	0.0	6.7	47.6
P-1809 A	CNEL	98.9		352.4	-61.9	5.0	-22.7	-1.2		0.0	7.2	0.0	6.7	31.9
P-1810 A/B/C	CNEL	99.0		264.5	-59.4	4.8	-22.9	-1.1		0.0	2.2	0.0	6.7	29.2
P-1811 A/B	CNEL	99.1		255.6	-59.1	4.7	-15.4	-0.8		0.0	0.2	0.0	6.7	35.3
P-1811 A/B	CNEL	99.1		276.3	-59.8	4.8	-24.0	-1.2		0.0	1.8	0.0	6.7	27.4
P-1847 A/B	CNEL	99.4		189.4	-56.5	4.3	-4.7	-1.0		0.0	2.2	0.0	6.7	50.4
P-1849 A/B	CNEL	99.4		190.5	-56.6	4.3	-21.2	-0.6		0.0	5.9	0.0	6.7	37.9
P-1853	CNEL	99.1		327.0	-61.3	5.0	-15.0	-1.0	-0.23	0.0	0.0	0.0	6.7	33.3
Piping Furnace Tanks	CNEL	87.1	72	202.5	-57.1	2.8	-20.9	-4.0		0.0	0.3	0.0	6.7	14.9
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	224.3	-58.0	2.9	-20.7	-4.0		0.0	2.4	0.0	6.7	27.6
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	226.3	-58.1	3.1	-24.6	-2.0		0.0	0.5	0.0	6.7	40.2
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	225.0	-58.0	3.1	-24.7	-5.9		0.0	4.1	0.0	6.7	40.4
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	239.2	-58.6	3.0	-23.6	-1.0		0.0	2.0	0.0	6.7	39.0
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	210.9	-57.5	3.1	-21.0	-0.7		0.0	6.1	0.0	6.7	47.7
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	207.8	-57.3	2.9	-21.5	-0.7		0.0	3.0	0.0	6.7	37.1
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	247.7	-58.9	3.1	-23.8	-1.1		0.0	2.2	0.0	6.7	39.3
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	223.9	-58.0	2.9	-23.2	-1.0		0.0	2.9	0.0	6.7	34.4
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	205.2	-57.2	3.0	-20.7	-0.7		0.0	4.3	0.0	6.7	39.1
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	214.3	-57.6	3.1	-19.9	-0.7		0.0	1.7	0.0	6.7	40.0
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	232.2	-58.3	3.1	-22.7	-0.9		0.0	1.4	0.0	6.7	35.4
Pre-Treat Train-Roof 01	CNEL	113.1	2037	227.6	-58.1	2.8	-19.8	-0.7		0.0	5.2	0.0	6.7	49.1
PSA Pipe 3" Lagging	CNEL	80.6	11	213.0	-57.6	2.8	-13.1	-1.4		0.0	5.9	0.0	6.7	23.9
PSA Skid Additional Piping w NC	CNEL	116.6	57	228.9	-58.2	3.1	-24.6	-2.0		0.0	0.0	0.0	6.7	41.7
Reformer-Burner Reformer East	CNEL	97.3	269	181.4	-56.2	2.8	-11.8	-0.7		0.0	0.0	0.0	6.7	41.1
Reformer-Burner Reformer North	CNEL	95.9	192	193.0	-56.7	2.8	-22.4	-1.1		0.0	0.0	0.0	6.7	25.0
Reformer-Burner Reformer South	CNEL	95.8	191	180.5	-56.1	2.8	-17.7	-0.8		0.0	1.6	0.0	6.7	34.8
Reformer-Burner Reformer West	CNEL	97.3	268	191.6	-56.6	2.8	-23.3	-1.2		0.0	0.4	0.0	6.7	29.0
RFG A from battery to process	CNEL	99.4	87	220.5	-57.9	2.9	-20.6	-3.8		0.0	4.2	0.0	6.7	30.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
RFG A from battery to process w NC	CNEL	115.2	42	223.3	-58.0	3.1	-24.8	-6.1		0.0	1.8	0.0	6.7	37.9	
Stack Noise	CNEL	108.4		165.3	-55.4	2.7	-1.0	-1.5		-7.8	0.0	0.0	6.7	52.1	
Steam Turbine-Facade 01	CNEL	99.6	29	243.7	-58.7	3.9	-24.3	-4.2		0.0	0.0	0.0	6.7	22.9	
Steam Turbine-Facade 02	CNEL	96.2	13	239.4	-58.6	3.9	-24.1	-4.0		0.0	0.0	0.0	6.7	20.2	
Steam Turbine-Facade 03	CNEL	99.6	29	241.3	-58.6	3.9	-24.3	-4.3		0.0	0.0	0.0	6.7	22.9	
Steam Turbine-Facade 04	CNEL	96.2	13	245.6	-58.8	3.9	-24.4	-4.3		0.0	0.0	0.0	6.7	19.3	
Steam Turbine-Roof 01	CNEL	99.7	30	242.5	-58.7	3.2	-24.0	-4.0		0.0	0.0	0.0	6.7	22.9	
Tank Farm Pump 1	CNEL	99.0	3	166.5	-55.4	3.6	-4.2	-1.4		0.0	3.2	0.0	6.7	51.4	
Tank Farm Pump 2	CNEL	99.0	3	169.6	-55.6	3.6	-19.5	-0.9		0.0	1.4	0.0	6.7	34.7	
Tank Farm Pump 3	CNEL	99.0	3	171.2	-55.7	3.7	-22.6	-1.0		0.0	4.5	0.0	6.7	34.5	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	455.3	-64.2	4.1	-9.9	-3.1	-0.04	0.0	0.1	-13.8	0.0	25.5	
XF-1502 Splitter Area 1	CNEL	104.5		282.7	-60.0	2.7	-16.0	-1.0	-0.05	-3.0	0.0	0.0	6.7	33.8	
XF-1502 Splitter Area 2	CNEL	104.5		284.4	-60.1	2.7	-15.7	-1.0	-0.04	-3.0	0.0	0.0	6.7	34.0	
XF-1504 Splitter Area 1	CNEL	104.5		278.8	-59.9	2.7	-16.1	-1.0	-0.02	-3.0	0.0	0.0	6.7	33.9	
XF-1504 Splitter Area 2	CNEL	104.5		280.6	-60.0	2.7	-14.2	-1.0	-0.02	-3.0	0.0	0.0	6.7	35.7	
XF 251, 250, 271, 270	CNEL	101.1	128	282.6	-60.0	2.8	-12.5	-0.4		-1.6	0.0	0.0	6.7	36.1	
XF 260, 261A, 261 B	CNEL	99.9	97	303.3	-60.6	2.8	-9.5	-0.5	0.00	-1.8	0.0	0.0	6.7	36.9	
XF 304, XF 321	CNEL	110.5	56	332.7	-61.4	2.5	-13.6	-0.5	-0.04	-1.7	0.0	0.0	6.7	42.4	
XF 313, XF 314	CNEL	113.0	18	324.4	-61.2	2.4	-15.9	-0.8		-2.7	0.0	0.0	6.7	41.5	
XF 335-1, XF 335-2	CNEL	113.4	54	329.0	-61.3	2.4	-14.4	-0.7	-0.05	-1.9	0.0	0.0	6.7	44.2	
XF 353A/B	CNEL	95.4	35	300.3	-60.5	2.8	-0.4	-1.1	-0.03	-3.1	0.0	0.0	6.7	39.7	
XF 353A/B	CNEL	95.4	35	279.6	-59.9	2.8	-8.0	-0.5		-1.8	0.0	0.0	6.7	34.7	
XF 354A/B	CNEL	95.4	35	325.5	-61.2	2.8	-11.0	-0.5		-1.5	0.0	0.0	6.7	30.6	
XF 503	CNEL	113.0	21	335.4	-61.5	2.9	-15.1	-1.0	-0.47	-2.9	0.0	0.0	6.7	41.7	
XF - 1601	CNEL	96.6		271.3	-59.7	2.6	-6.1	-0.7		-2.1	0.0	0.0	6.7	37.4	
XF - 1602	CNEL	96.6		266.2	-59.5	2.6	-6.0	-0.6		-2.0	0.0	0.0	6.7	37.6	
XF Module 1510	CNEL	108.3		291.3	-60.3	2.7	-16.0	-1.0	-0.25	-3.0	0.0	0.0	6.7	37.2	
XF Module 1519	CNEL	109.0		288.8	-60.2	2.7	-16.4	-1.0	-0.24	-2.9	0.0	0.0	6.7	37.6	
xxxx xxxx xxxx xxxx	CNEL		606								14.9			38.4	
xxxx xxxx xxxx xxxx	CNEL		606								14.9			38.5	
xxxx xxxx xxxx xxxx	CNEL		917								3.9			25.4	
xxxx xxxx xxxx xxxx	CNEL		917								3.6			25.7	
xxxx xxxx xxxx xxxx	CNEL		608								8.6			33.5	
xxxx xxxx xxxx xxxx	CNEL		608								9.1			34.0	
xxxx xxxx xxxx xxxx	CNEL		228								19.1			27.2	
xxxx xxxx xxxx xxxx	CNEL		520								14.7			46.1	
xxxx xxxx xxxx xxxx	CNEL		1341								4.1			45.1	
xxxx xxxx xxxx xxxx	CNEL		450								7.6			23.1	
Receiver HWES FI G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 59.5 dB(A) Ld 7-19 dB(A) Leq,N 58.6 dB(A) Le 19-22 dB(A) CNEL 65.4 dB(A) Lmax day hr dB(A) Ld 7-															
ID Fan Motor	CNEL	104.4	2	392.2	-62.9	4.6	-20.5	-1.8		0.0	1.0	0.0	6.7	31.5	
18-1855 A/B	CNEL	98.8		449.0	-64.0	5.0	-20.0	-1.4		0.0	0.0	0.0	6.7	25.0	
18-1856 A/B	CNEL	98.8		453.8	-64.1	5.0	-20.6	-1.6		0.0	0.0	0.0	6.7	24.2	
18-1857 A/B	CNEL	98.8		444.5	-63.9	5.0	-17.4	-1.4		0.0	0.0	0.0	6.7	27.8	
18-1858 A/B	CNEL	98.8		441.4	-63.9	4.9	-17.4	-1.3		0.0	0.0	0.0	6.7	27.8	
18-PK 1802 Air Compressor Package	CNEL	103.1		468.0	-64.4	4.8	-15.8	-0.7		0.0	0.0	0.0	6.7	33.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	383.5	-62.7	5.1	-8.1	-3.0	-0.11	0.0	0.2	-4.8	1.0	36.6	
Air Compressor C 1	CNEL	110.0	5	222.5	-57.9	4.7	-20.8	-0.6		0.0	9.7	0.0	6.7	51.7	
Air Compressor Pump	CNEL	100.3		410.9	-63.3	5.1	-19.1	-2.0	-0.44	0.0	0.0	0.0	6.7	27.3	
Blower F 401	CNEL	113.0		330.3	-61.4	4.4	-9.2	-0.4	-1.30	0.0	0.0	0.0	6.7	51.8	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	595.2	-66.5	4.9	-16.1	-1.1	-0.38	0.0	0.3	0.0	6.7	26.3	
Boiler Feed Water Pump A	CNEL	97.1	3	436.2	-63.8	5.0	-16.3	-1.4		0.0	0.0	0.0	6.7	27.3	
Boiler Feed Water Pump B	CNEL	97.1	3	438.7	-63.8	5.0	-16.1	-1.4		0.0	0.0	0.0	6.7	27.4	
C370 A Motor	CNEL	103.6	3	375.2	-62.5	4.5	-4.6	-2.2		0.0	0.1	0.0	6.7	45.5	
C370 B Motor	CNEL	108.6	3	382.0	-62.6	4.5	-11.7	-1.2		0.0	0.4	0.0	6.7	44.5	
C370A	CNEL	103.8	5	371.9	-62.4	4.5	-5.5	-2.1		0.0	0.0	0.0	6.7	45.0	
C370B	CNEL	103.8	5	378.7	-62.6	4.5	-12.5	-1.1		0.0	0.0	0.0	6.7	38.8	
C-270 A	CNEL	106.3	6	530.5	-65.5	4.9	-9.6	-2.0	-0.47	0.0	0.8	0.0	6.7	41.1	
C-270 B	CNEL	106.3	6	527.3	-65.4	4.8	-6.5	-2.5	-0.47	0.0	0.1	0.0	6.7	43.0	
C-270 C	CNEL	106.3	6	524.2	-65.4	4.8	-5.7	-2.7	-0.54	0.0	0.0	0.0	6.7	43.6	
C-301 Compressor	CNEL	106.8	3	522.9	-65.4	4.8	-13.0	-1.6	-0.16	0.0	0.0	0.0	6.7	38.1	
C-301 Motor	CNEL	106.8	4	520.2	-65.3	4.8	-12.8	-2.4	-0.19	0.0	0.0	0.0	6.7	37.6	
C-351 Compressor	CNEL	106.8	4	538.2	-65.6	4.8	-14.9	-1.6	-0.65	0.0	0.0	0.0	6.7	35.6	
C-351 Motor	CNEL	106.8	5	541.7	-65.7	4.7	-10.0	-2.7	-0.87	0.0	0.0	0.0	6.7	38.9	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	365.5	-62.3	5.0	-6.8	-0.9	-0.12	0.0	0.0	-35.6	0.0	34.1	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	281.9	-60.0	4.1	-20.5	-0.8	-0.55	-4.9	0.0	0.0	6.7	28.8	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	278.1	-59.9	4.1	-20.1	-1.2	-1.03	0.0	0.0	0.0	6.7	29.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	272.3	-59.7	4.1	-8.7	-0.8	-0.25	0.2	0.2	0.0	6.7	48.3	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	281.8	-60.0	4.1	-20.0	-0.7	-0.14	-7.8	0.0	0.0	6.7	32.9	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	280.1	-59.9	4.1	-22.5	-0.9	-0.39	-7.8	0.0	0.0	6.7	22.9
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	274.5	-59.8	4.1	-11.7	-0.7		4.6	0.0	0.0	6.7	43.7
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	307.3	-60.7	4.3	-15.5	-0.8	-0.32	-6.8	0.0	0.0	6.7	24.7
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	301.4	-60.6	4.3	-10.6	-1.0	-0.43	3.5	0.0	0.0	6.7	39.7
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	321.1	-61.1	4.0	-13.6	-0.9	-0.24	-7.0	13.3	0.0	6.7	41.7
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	311.6	-60.9	4.1	-7.8	-1.2	-0.41	3.2	0.0	0.0	6.7	44.3
Cooling Tower M 512	CNEL	95.7		310.0	-60.8	4.9	-22.9	-1.3	-0.31	0.0	0.0	0.0	6.7	21.9
Cooling Tower M 513	CNEL	95.7		309.4	-60.8	4.9	-22.9	-1.3	-0.37	0.0	0.0	0.0	6.7	21.9
Cooling Tower M 514	CNEL	95.7		310.8	-60.8	4.9	-22.7	-1.3	-0.26	0.0	0.0	0.0	6.7	22.2
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	411.4	-63.3	3.3	-13.5	-0.6		-1.3	0.0	0.0	6.7	27.0
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	378.0	-62.5	4.5	-13.1	-0.1		0.0	0.0	0.0	6.7	30.7
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	375.6	-62.5	4.5	-9.6	-0.1		0.0	0.0	0.0	6.7	32.0
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	377.0	-62.5	4.0	-6.7	-0.1		0.0	0.0	0.0	6.7	34.8
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	378.3	-62.5	4.4	-12.3	-0.1		0.0	0.0	0.0	6.7	29.3
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	376.0	-62.5	4.5	-5.4	-0.1		0.0	0.0	0.0	6.7	38.5
FD Motor	CNEL	103.3	2	378.8	-62.6	4.6	-23.9	-2.8		0.0	0.8	0.0	6.7	26.1
Feed Compressor -B Motor	CNEL	103.8	5	410.8	-63.3	4.5	-16.8	-1.9		0.0	4.9	0.0	6.7	38.0
Feed Compressor-A Compressor	CNEL	104.0	5	397.3	-63.0	4.6	-11.7	-1.4		0.0	0.0	0.0	6.7	39.2
Feed Compressor-A Motor	CNEL	103.8	6	401.3	-63.1	4.5	-12.5	-2.0		0.0	0.0	0.0	6.7	37.4
Feed Compressor-B Compressor	CNEL	104.0	7	406.4	-63.2	4.6	-16.0	-1.2		0.0	2.3	0.0	6.7	37.2
H2S Compressor 18-C-271	CNEL	105.3	6	255.0	-59.1	4.5	-19.4	-0.9	-0.29	0.0	0.0	0.0	6.7	36.9
Heater # 5-Heater	CNEL	91.1	13	591.1	-66.4	4.9	-20.2	-1.3	-0.47	0.0	0.0	0.0	6.7	17.3
Heater # 5-Heater	CNEL	91.1	13	587.9	-66.4	4.9	-19.4	-1.3	-0.25	0.0	0.4	0.0	6.7	18.8
Heater # 5-Heater	CNEL	91.1	13	594.3	-66.5	4.9	-19.9	-1.3	-0.58	0.0	3.9	0.0	6.7	21.4
Hydro Heater H-402	CNEL	98.1		298.4	-60.5	4.6	-10.3	-0.5	-0.74	0.0	0.0	0.0	6.7	37.4
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	394.3	-62.9	4.9	-13.0	-0.1		0.0	0.0	0.0	6.7	22.5
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	395.8	-62.9	4.9	-14.1	-0.1		0.0	0.0	0.0	6.7	21.7
ID Fan-ID Fan - North	CNEL	92.2	8	392.9	-62.9	4.9	-8.5	-0.1		0.0	0.0	0.0	6.7	32.3
ID Fan-ID Fan - North 2	CNEL	91.4	7	395.4	-62.9	4.9	-9.0	-0.1		0.0	0.0	0.0	6.7	31.0
ID Fan-ID Fan - South	CNEL	92.3	9	395.0	-62.9	4.9	-14.1	-0.1		0.0	0.0	0.0	6.7	26.8
ID Fan-ID Fan - South 2	CNEL	91.4	7	396.4	-63.0	4.9	-13.2	-0.1		0.0	0.0	0.0	6.7	26.7
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	394.5	-62.9	4.5	-7.5	-0.1		0.0	0.0	0.0	6.7	34.7
Motor & Pump P 56A/B	CNEL	93.7		280.6	-60.0	4.9	-18.2	-1.2	-0.35	0.0	0.0	0.0	6.7	25.5
Motor & Pump P 120/121	CNEL	96.2	2	234.3	-58.4	4.7	-12.3	-0.8		0.0	0.6	0.0	6.7	36.7
Motor & Pump P 211/212	CNEL	93.7		297.5	-60.5	5.0	-8.9	-1.7	-1.66	0.0	0.0	0.0	6.7	32.6
Motor & Pump P 215/214	CNEL	94.6		292.6	-60.3	5.0	-19.1	-1.1	-0.96	0.0	0.0	0.0	6.7	24.8
Motor & Pump P 216	CNEL	98.3		295.2	-60.4	4.9	-22.4	-1.7	-0.13	0.0	0.0	0.0	6.7	25.2
Motor & Pump P 217/218	CNEL	93.7		295.6	-60.4	5.2	-17.8	-1.2	-0.99	0.0	0.0	0.0	6.7	25.1
Motor & Pump P 300	CNEL	97.1	2	227.6	-58.1	4.7	-11.0	-0.8	-0.45	0.0	0.1	0.0	6.7	38.2
Motor & Pump P 301	CNEL	102.1	2	229.1	-58.2	4.7	-10.8	-0.8	-0.49	0.0	0.1	0.0	6.7	43.3
Motor & Pump P 302	CNEL	97.1	2	225.9	-58.1	4.7	-11.2	-0.8	-0.41	0.0	0.1	0.0	6.7	38.1
Motor & Pump P 303	CNEL	97.1	2	224.5	-58.0	4.7	-11.1	-0.8	-0.38	0.0	0.1	0.0	6.7	38.3
Motor & Pump P 305	CNEL	97.5	2	223.1	-58.0	4.7	-11.3	-0.8	-0.34	0.0	0.1	0.0	6.7	38.5
Motor & Pump P 306	CNEL	112.6	4	214.7	-57.6	4.4	-17.0	-0.8	-0.20	0.0	1.8	0.0	6.7	49.9
Motor & Pump P 307	CNEL	102.1	2	233.7	-58.4	4.7	-10.3	-0.8	-0.60	0.0	0.1	0.0	6.7	43.5
Motor & Pump P 309	CNEL	97.5	2	221.7	-57.9	4.6	-11.5	-0.8	-0.31	0.0	0.1	0.0	6.7	38.4
Motor & Pump P 312	CNEL	101.5	2	254.4	-59.1	4.9	-18.3	-0.8	-0.67	0.0	0.0	0.0	6.7	34.3
Motor & Pump P 313	CNEL	101.5	2	256.1	-59.2	4.9	-18.1	-0.8	-0.69	0.0	0.0	0.0	6.7	34.3
Motor & Pump P 315	CNEL	102.9	2	262.2	-59.4	4.9	-17.6	-0.8	-0.75	0.0	0.0	0.0	6.7	35.9
Motor & Pump P 316	CNEL	102.9	2	264.0	-59.4	4.9	-18.0	-0.8	-0.75	0.0	4.2	0.0	6.7	39.6
Motor & Pump P 317	CNEL	102.9	2	266.0	-59.5	4.8	-17.9	-0.8	-0.73	0.0	5.8	0.0	6.7	41.2
Motor & Pump P 318	CNEL	100.2	1	260.4	-59.3	5.0	-17.4	-0.8	-0.75	0.0	0.0	0.0	6.7	33.7
Motor & Pump P 319	CNEL	100.2	1	259.0	-59.3	5.0	-17.8	-0.8	-0.72	0.0	0.0	0.0	6.7	33.3
Motor & Pump P 327	CNEL	111.2	3	207.1	-57.3	4.7	-19.0	-1.2	-0.03	0.0	3.6	0.0	6.7	48.6
Motor & Pump P 328	CNEL	109.9	5	220.1	-57.8	4.5	-11.8	-0.8	-0.29	0.0	0.6	0.0	6.7	50.9
Motor & Pump P 329	CNEL	110.2	5	217.4	-57.7	4.5	-14.2	-0.8	-0.24	0.0	1.1	0.0	6.7	49.5
Motor & Pump P 451	CNEL	93.7		305.3	-60.7	4.9	-14.4	-1.4	-0.78	0.0	0.0	0.0	6.7	28.0
Motor & Pump P 453	CNEL	93.7		317.1	-61.0	5.0	-16.8	-1.4	-0.87	0.0	0.0	0.0	6.7	25.2
Motor & Pump P 454	CNEL	93.7		304.3	-60.7	4.9	-14.5	-1.4	-0.84	0.0	0.0	0.0	6.7	27.9
Motor & Pump P 457	CNEL	93.7		318.5	-61.1	5.0	-16.4	-1.4	-0.89	0.0	0.0	0.0	6.7	25.6
Motor & Pump P 458	CNEL	93.7		305.7	-60.7	4.9	-13.9	-1.2	-0.69	0.0	0.0	0.0	6.7	28.8
Motor & Pump P 459	CNEL	93.7		303.4	-60.6	4.9	-14.6	-1.4	-0.82	0.0	0.0	0.0	6.7	27.8
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		285.3	-60.1	4.9	-16.6	-1.3	-0.32	0.0	0.0	0.0	6.7	29.5
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		283.8	-60.1	4.9	-16.5	-1.3	-0.28	0.0	0.0	0.0	6.7	29.7
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		259.7	-59.3	4.9	-3.6	-2.7	-0.09	0.0	0.0	0.0	6.7	41.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		258.7	-59.2	4.9	-3.6	-2.7	-0.06	0.0	0.0	0.0	6.7	41.3
Motor & Pump P 1601 A	CNEL	96.3	2	299.1	-60.5	4.8	-2.5	-3.5	-0.50	0.0	0.0	0.0	6.7	40.7
Motor & Pump P 1601 B	CNEL	96.3	2	299.9	-60.5	4.8	-2.5	-3.5	-0.44	0.0	0.5	0.0	6.7	41.3
Motor & Pump P 1602 A	CNEL	96.3	2	300.7	-60.6	4.8	-4.0	-2.9	-0.22	0.0	0.7	0.0	6.7	40.8
Motor & Pump P 1602 B	CNEL	96.5	2	301.6	-60.6	4.8	-8.3	-1.6		0.0	2.4	0.0	6.7	39.9
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	289.3	-60.2	5.0	-14.3	-1.3	-0.26	0.0	0.0	0.0	6.7	32.1
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	285.0	-60.1	5.0	-9.5	-1.7	-0.25	0.0	0.0	0.0	6.7	36.7
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	282.9	-60.0	5.0	-11.4	-1.5	-0.28	0.0	0.0	0.0	6.7	35.1
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	282.8	-60.0	4.9	-16.9	-1.3	-0.22	0.0	0.0	0.0	6.7	29.8
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	281.2	-60.0	4.9	-15.2	-1.3	-0.17	0.0	0.0	0.0	6.7	31.6
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	282.0	-60.0	5.0	-2.2	-2.4	-0.49	0.0	0.0	0.0	6.7	42.9
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	280.8	-60.0	5.0	-3.5	-2.1	-0.41	0.0	0.0	0.0	6.7	41.9
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	278.8	-59.9	4.9	-6.5	-1.8	-0.27	0.0	0.0	0.0	6.7	39.5
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	279.7	-59.9	5.0	-4.5	-2.0	-0.32	0.0	0.0	0.0	6.7	41.2
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	234.3	-58.4	4.4	-2.7	-1.4		0.0	2.0	0.0	6.7	54.6
P-2 A/B	CNEL	98.5		630.2	-67.0	5.2	-14.5	-1.8	-0.42	0.0	0.0	0.0	6.7	26.6
P-50 A/B	CNEL	98.1		587.4	-66.4	5.2	-24.2	-2.4	-0.83	0.0	0.0	0.0	6.7	16.2
P-51 A/B	CNEL	98.1		590.3	-66.4	5.2	-24.5	-2.5	-0.23	0.0	0.0	0.0	6.7	16.3
P-060 A/B	CNEL	98.1		580.2	-66.3	5.2	-16.7	-1.7	-0.48	0.0	0.0	0.0	6.7	24.9
P-63	CNEL	98.5		613.9	-66.8	5.2	-21.9	-1.9	-1.18	0.0	0.0	0.0	6.7	18.7
P-70 A/B	CNEL	98.1		583.4	-66.3	5.2	-24.4	-2.4	-0.38	0.0	0.0	0.0	6.7	16.5
P-73 A/B	CNEL	98.5		626.9	-66.9	5.2	-24.1	-2.5		0.0	0.0	0.0	6.7	16.8
P-251 A/B	CNEL	98.2		479.1	-64.6	5.3	-10.5	-1.6	-0.56	0.0	0.0	0.0	6.7	32.9
P-252 A/B	CNEL	98.2		472.8	-64.5	5.2	-5.8	-2.0	-0.25	0.0	0.0	0.0	6.7	37.6
P-253	CNEL	98.2		477.7	-64.6	5.2	-7.3	-1.7	-0.26	0.0	0.0	0.0	6.7	36.3
P-254 A/B	CNEL	98.2		486.1	-64.7	5.3	-5.3	-2.1	-0.55	0.0	0.0	0.0	6.7	37.5
P-255 A/B	CNEL	98.2		484.0	-64.7	5.3	-5.2	-2.1	-0.54	0.0	0.0	0.0	6.7	37.6
P-255 A/B	CNEL	98.2		474.6	-64.5	5.3	-9.9	-1.6	-0.55	0.0	0.0	0.0	6.7	33.6
P-256 A/B	CNEL	98.2		481.2	-64.6	5.3	-9.6	-1.7	-0.55	0.0	0.0	0.0	6.7	33.7
P-259 A/B	CNEL	98.2		476.9	-64.6	5.3	-10.4	-1.6	-0.55	0.0	0.0	0.0	6.7	33.1
P-260	CNEL	99.1		460.6	-64.3	5.3	-12.2	-1.5	-0.25	0.0	0.0	0.0	6.7	32.8
P-261 A/B	CNEL	98.0		446.7	-64.0	5.3	-13.4	-1.4	-0.68	0.0	0.0	0.0	6.7	30.5
P-262 A/B	CNEL	99.1		455.4	-64.2	5.3	-12.5	-1.5	-0.35	0.0	0.0	0.0	6.7	32.5
P-263 A/B	CNEL	99.4		457.7	-64.2	5.3	-13.1	-1.4	-0.24	0.0	0.0	0.0	6.7	32.4
P-270 A/B	CNEL	98.5		512.7	-65.2	5.2	-11.9	-1.6	-0.15	0.0	0.0	0.0	6.7	31.5
P-271 A/B	CNEL	98.2		492.4	-64.8	5.3	-7.4	-1.7	-0.56	0.0	0.0	0.0	6.7	35.6
P-272 A/B	CNEL	98.2		489.4	-64.8	5.3	-7.7	-1.7	-0.56	0.0	0.0	0.0	6.7	35.4
P-273 A/B	CNEL	98.5		510.3	-65.1	5.2	-11.9	-1.6	-0.03	0.0	0.0	0.0	6.7	31.7
P-275 A/B/C	CNEL	98.2		484.8	-64.7	5.2	-8.9	-1.7	-0.25	0.0	0.0	0.0	6.7	34.6
P-305	CNEL	99.3		565.6	-66.0	5.3	-5.7	-2.3	-1.02	0.0	0.0	0.0	6.7	36.2
P-306	CNEL	100.8		572.1	-66.1	5.3	-11.9	-1.8	-1.16	0.0	0.0	0.0	6.7	31.7
P-309	CNEL	99.3		567.1	-66.1	5.3	-5.7	-2.3	-1.03	0.0	0.0	0.0	6.7	36.2
P-328	CNEL	100.8		576.0	-66.2	5.3	-11.7	-1.8	-1.37	0.0	0.0	0.0	6.7	31.7
P-329	CNEL	100.8		574.0	-66.2	5.3	-11.8	-1.8	-1.27	0.0	0.0	0.0	6.7	31.6
P-353	CNEL	98.5		556.3	-65.9	5.1	-12.5	-1.7	-0.90	0.0	0.0	0.0	6.7	29.3
P-358 A/B	CNEL	99.4		551.6	-65.8	5.2	-18.3	-1.6	-0.91	0.0	0.0	0.0	6.7	24.6
P-359 A/B	CNEL	99.4		555.1	-65.9	5.2	-18.8	-1.5	-1.06	0.0	0.0	0.0	6.7	24.1
P-360 A/B	CNEL	99.4		561.9	-66.0	5.3	-19.3	-1.7	-1.33	0.0	0.0	0.0	6.7	23.0
P-361A	CNEL	98.1		565.7	-66.0	5.0	-17.5	-1.7	-0.27	0.0	0.3	0.0	6.7	24.6
P-371 A/B	CNEL	98.0		345.5	-61.8	4.9	-16.9	-1.1	-0.57	0.0	0.0	0.0	6.7	29.3
P-373 A/B	CNEL	98.0		355.1	-62.0	4.9	-4.4	-1.9	-0.15	0.0	0.0	0.0	6.7	41.2
P-374 A/B	CNEL	98.0		352.9	-61.9	4.9	-4.3	-1.9	-0.26	0.0	0.0	0.0	6.7	41.2
P-375 A/B	CNEL	98.0		348.0	-61.8	4.9	-12.3	-1.1	-0.54	0.0	0.0	0.0	6.7	33.8
P-376	CNEL	98.0		351.6	-61.9	4.9	-4.5	-1.6	-0.33	0.0	0.0	0.0	6.7	41.3
P-376 A/B	CNEL	98.0		357.3	-62.1	4.9	-2.5	-1.6	-0.03	0.0	0.0	0.0	6.7	43.4
P-377	CNEL	98.0		350.2	-61.9	4.9	-7.9	-1.3		0.0	0.0	0.0	6.7	38.5
P-1101 A	CNEL	98.9		610.3	-66.7	5.0	-20.8	-2.0		0.0	0.0	0.0	6.7	21.1
P-1103	CNEL	98.9		609.2	-66.7	5.0	-20.6	-2.0		0.0	0.0	0.0	6.7	21.3
P-1105 A/B/C	CNEL	98.9		614.4	-66.8	5.0	-19.8	-1.9	-0.18	0.0	0.0	0.0	6.7	22.0
P-1800	CNEL	98.9		662.2	-67.4	5.2	-20.4	-2.0		0.0	0.7	0.0	6.7	21.7
P-1801	CNEL	98.9		696.8	-67.9	5.1	-24.9	-3.0		0.0	2.3	0.0	6.7	17.2
P-1802	CNEL	98.9		695.2	-67.8	5.1	-25.0	-3.0		0.0	0.0	0.0	6.7	14.9
P-1803	CNEL	99.1		566.6	-66.1	5.1	-24.6	-2.4		0.0	0.0	0.0	6.7	17.8
P-1804	CNEL	99.1		586.7	-66.4	5.1	-22.7	-1.9		0.0	0.9	0.0	6.7	20.7
P-1805	CNEL	99.1		589.1	-66.4	5.1	-22.5	-1.9		0.0	0.0	0.0	6.7	20.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1806	CNEL	99.1		548.3	-65.8	5.1	-18.5	-1.6		0.0	0.0	0.0	6.7	24.9
P-1809 A	CNEL	98.9		667.7	-67.5	5.2	-19.5	-2.0		0.0	5.2	0.0	6.7	26.9
P-1810 A/B/C	CNEL	99.0		583.5	-66.3	5.1	-24.8	-2.6		0.0	0.0	0.0	6.7	17.0
P-1811 A/B	CNEL	99.1		553.5	-65.9	5.1	-18.4	-1.7		0.0	0.0	0.0	6.7	25.0
P-1811 A/B	CNEL	99.1		592.1	-66.4	5.1	-22.0	-1.9		0.0	0.0	0.0	6.7	20.6
P-1847 A/B	CNEL	99.4		518.7	-65.3	4.9	-17.6	-1.6		0.0	0.0	0.0	6.7	26.5
P-1849 A/B	CNEL	99.4		524.2	-65.4	4.9	-17.4	-1.6		0.0	0.0	0.0	6.7	26.6
P-1853	CNEL	99.1		525.4	-65.4	5.3	-5.6	-2.1	-0.92	0.0	0.0	0.0	6.7	37.0
Piping Furnace Tanks	CNEL	87.1	72	366.5	-62.3	3.8	-17.9	-5.9		0.0	0.6	0.0	6.7	11.9
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	369.3	-62.3	4.0	-16.5	-5.2		0.0	0.5	0.0	6.7	25.5
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	329.6	-61.4	4.4	-19.2	-2.3		0.0	0.1	0.0	6.7	42.9
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	332.4	-61.4	4.4	-20.4	-5.6		0.0	0.5	0.0	6.7	39.4
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	606.6	-66.6	3.8	-22.9	-2.3		0.0	0.6	0.0	6.7	29.8
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	575.8	-66.2	3.7	-7.4	-2.3		0.0	0.0	0.0	6.7	45.7
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	557.2	-65.9	3.7	-9.5	-2.1		0.0	0.1	0.0	6.7	37.1
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	597.9	-66.5	3.9	-22.9	-2.2		0.0	2.5	0.0	6.7	32.5
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	566.7	-66.1	3.8	-22.2	-2.1		0.0	1.4	0.0	6.7	25.5
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	558.6	-65.9	3.7	-10.7	-2.1		0.0	1.1	0.0	6.7	36.4
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	558.2	-65.9	3.8	-7.7	-2.2		0.0	0.0	0.0	6.7	41.4
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	574.7	-66.2	3.8	-18.8	-2.0		0.0	4.8	0.0	6.7	34.5
Pre-Treat Train-Roof 01	CNEL	113.1	2037	584.8	-66.3	2.7	-5.4	-2.6		0.0	0.0	0.0	6.7	48.1
PSA Pipe 3" Lagging	CNEL	80.6	11	342.1	-61.7	2.9	-10.6	-2.6		0.0	0.3	0.0	6.7	15.7
PSA Skid Additional Piping w NC	CNEL	116.6	57	327.7	-61.3	4.4	-18.6	-2.3		0.0	0.1	0.0	6.7	45.5
Reformer-Burner Reformer East	CNEL	97.3	269	364.7	-62.2	2.8	-8.5	-1.7		0.0	0.0	0.0	6.7	37.4
Reformer-Burner Reformer North	CNEL	95.9	192	362.4	-62.2	2.9	-5.9	-1.8		0.0	0.0	0.0	6.7	35.5
Reformer-Burner Reformer South	CNEL	95.8	191	376.4	-62.5	2.7	-21.7	-1.8		0.0	1.6	0.0	6.7	23.9
Reformer-Burner Reformer West	CNEL	97.3	268	373.8	-62.4	2.5	-21.9	-1.8		0.0	1.2	0.0	6.7	24.6
RFG A from battery to process	CNEL	99.4	87	372.8	-62.4	4.0	-17.7	-5.1		0.0	0.3	0.0	6.7	25.1
RFG A from battery to process w NC	CNEL	115.2	42	330.3	-61.4	4.4	-22.3	-6.0		0.0	0.1	0.0	6.7	36.8
Stack Noise	CNEL	108.4		399.4	-63.0	2.2	-0.9	-2.8		-7.1	0.0	0.0	6.7	43.5
Steam Turbine-Facade 01	CNEL	99.6	29	339.3	-61.6	4.9	-22.9	-3.8		0.0	0.0	0.0	6.7	22.9
Steam Turbine-Facade 02	CNEL	96.2	13	340.4	-61.6	4.9	-23.9	-4.5		0.0	0.0	0.0	6.7	17.7
Steam Turbine-Facade 03	CNEL	99.6	29	336.4	-61.5	4.8	-22.8	-3.4		0.0	0.0	0.0	6.7	23.3
Steam Turbine-Facade 04	CNEL	96.2	13	335.4	-61.5	4.8	-19.6	-2.6		0.0	0.0	0.0	6.7	24.1
Steam Turbine-Roof 01	CNEL	99.7	30	337.9	-61.6	4.4	-19.7	-2.8		0.0	0.0	0.0	6.7	26.7
Tank Farm Pump 1	CNEL	99.0	3	496.2	-64.9	4.8	-21.5	-2.2		0.0	2.5	0.0	6.7	24.4
Tank Farm Pump 2	CNEL	99.0	3	514.1	-65.2	4.8	-17.8	-2.2		0.0	0.0	0.0	6.7	25.3
Tank Farm Pump 3	CNEL	99.0	3	519.2	-65.3	4.8	-17.1	-2.3		0.0	0.0	0.0	6.7	25.7
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	284.1	-60.1	3.7	-5.3	-3.1	-0.02	0.0	0.2	-13.8	0.0	34.0
XF-1502 Splitter Area 1	CNEL	104.5		282.8	-60.0	2.6	-2.2	-1.6	-0.04	-4.0	0.0	0.0	6.7	46.0
XF-1502 Splitter Area 2	CNEL	104.5		286.1	-60.1	2.6	-2.1	-1.7	-0.03	-4.0	0.0	0.0	6.7	45.9
XF-1504 Splitter Area 1	CNEL	104.5		285.1	-60.1	2.6	-4.5	-2.0	-0.48	-4.3	0.0	0.0	6.7	42.5
XF-1504 Splitter Area 2	CNEL	104.5		288.3	-60.2	2.6	-4.6	-2.0	-0.48	-4.3	0.0	0.0	6.7	42.3
XF 251, 250, 271, 270	CNEL	101.1	128	488.5	-64.8	3.6	-0.8	-1.4		-2.5	0.0	0.0	6.7	41.8
XF 260, 261A, 261 B	CNEL	99.9	97	457.2	-64.2	3.5	-2.8	-1.6	0.00	-2.7	0.0	0.0	6.7	38.8
XF 304, XF 321	CNEL	110.5	56	228.0	-58.2	2.4	-5.1	-0.6	-0.35	-2.3	0.1	0.0	6.7	53.2
XF 313, XF 314	CNEL	113.0	18	199.6	-57.0	2.5	-9.6	-0.6		-3.3	0.3	0.0	6.7	51.9
XF 335-1, XF 335-2	CNEL	113.4	54	216.7	-57.7	2.5	-5.1	-1.1	-0.36	-2.9	0.6	0.0	6.7	56.0
XF 353A/B	CNEL	95.4	35	562.5	-66.0	3.7	-6.9	-1.0	-0.01	-1.8	0.0	0.0	6.7	30.1
XF 353A/B	CNEL	95.4	35	538.5	-65.6	3.7	-8.8	-0.8		-1.5	0.0	0.0	6.7	29.0
XF 354A/B	CNEL	95.4	35	560.3	-66.0	3.8	-2.6	-1.5	0.00	-2.3	0.0	0.0	6.7	33.5
XF 503	CNEL	113.0	21	282.0	-60.0	2.9	-7.6	-2.5	-0.75	-3.5	0.1	0.0	6.7	48.3
XF - 1601	CNEL	96.6		301.6	-60.6	2.4	-0.5	-1.1		-3.0	0.0	0.0	6.7	40.5
XF - 1602	CNEL	96.6		304.9	-60.7	2.4	-0.5	-1.1		-3.0	0.0	0.0	6.7	40.4
XF Module 1510	CNEL	108.3		286.4	-60.1	2.7	-3.5	-1.8	-0.13	-4.1	0.0	0.0	6.7	48.1
XF Module 1519	CNEL	109.0		281.7	-60.0	2.7	-2.1	-1.8	-0.08	-4.2	0.0	0.0	6.7	50.1
xxxx xxxx xxxx xxxx	CNEL		606								7.8			29.5
xxxx xxxx xxxx xxxx	CNEL		606								8.1			29.7
xxxx xxxx xxxx xxxx	CNEL		917								2.3			24.7
xxxx xxxx xxxx xxxx	CNEL		917								2.3			24.9
xxxx xxxx xxxx xxxx	CNEL		608								1.6			51.8
xxxx xxxx xxxx xxxx	CNEL		608								1.6			51.2
xxxx xxxx xxxx xxxx	CNEL		228								2.5			12.4
xxxx xxxx xxxx xxxx	CNEL		520								7.4			35.9
xxxx xxxx xxxx xxxx	CNEL		1341								4.5			34.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	CNEL		450								7.4			18.7	
Receiver PHS Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)			Leq,D 68.3 dB(A)		Ld 7-19 dB(A)		Leq,N 66.1 dB(A)		Le 19-22 dB(A)		CNEL 73.2 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	CNEL	104.4	2	424.8	-63.6	5.2	-14.2	-1.7		0.0	3.8	0.0	6.7	40.6	
18-1855 A/B	CNEL	98.8		456.3	-64.2	5.5	-18.4	-1.4	-1.07	0.0	0.3	0.0	6.7	26.3	
18-1856 A/B	CNEL	98.8		462.5	-64.3	5.5	-16.1	-1.3	-1.07	0.0	0.4	0.0	6.7	28.6	
18-1857 A/B	CNEL	98.8		450.4	-64.1	5.5	-15.4	-1.3		0.0	0.8	0.0	6.7	31.0	
18-1858 A/B	CNEL	98.8		446.3	-64.0	5.3	-17.1	-1.3		0.0	3.7	0.0	6.7	32.1	
18-PK 1802 Air Compressor Package	CNEL	103.1		475.0	-64.5	5.6	-11.3	-0.7		0.0	0.4	0.0	6.7	39.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	315.2	-61.0	5.0	-6.2	-2.3	-0.10	0.0	0.6	-4.8	1.0	41.3	
Air Compressor C 1	CNEL	110.0	5	214.4	-57.6	5.1	-18.5	-0.5	-0.42	0.0	1.9	0.0	6.7	46.6	
Air Compressor Pump	CNEL	100.3		398.3	-63.0	5.3	-23.4	-3.0	-0.75	0.0	2.5	0.0	6.7	24.6	
Blower F 401	CNEL	113.0		288.3	-60.2	4.8	-11.4	-0.3	-0.89	0.0	0.1	0.0	6.7	51.7	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	588.6	-66.4	5.4	-19.6	-1.2	-0.08	0.0	0.8	0.0	6.7	24.2	
Boiler Feed Water Pump A	CNEL	97.1	3	451.2	-64.1	5.4	-9.0	-1.5	-1.02	0.0	1.6	0.0	6.7	35.2	
Boiler Feed Water Pump B	CNEL	97.1	3	452.8	-64.1	5.4	-6.0	-1.9	-0.81	0.0	1.1	0.0	6.7	37.4	
C370 A Motor	CNEL	103.6	3	374.9	-62.5	4.8	-13.5	-1.2	-0.01	0.0	1.9	0.0	6.7	39.8	
C370 B Motor	CNEL	108.6	3	384.2	-62.7	4.8	-10.4	-1.3	-0.13	0.0	0.1	0.0	6.7	45.7	
C370A	CNEL	103.8	5	372.9	-62.4	4.8	-11.4	-1.2	-0.95	0.0	0.1	0.0	6.7	39.4	
C370B	CNEL	103.8	5	382.3	-62.6	4.8	-3.5	-1.9	-0.98	0.0	0.1	0.0	6.7	46.4	
C-270 A	CNEL	106.3	6	530.0	-65.5	5.2	-5.0	-2.7	-1.65	0.0	1.3	0.0	6.7	44.6	
C-270 B	CNEL	106.3	6	525.9	-65.4	5.2	-4.9	-2.8	-1.70	0.0	0.5	0.0	6.7	43.9	
C-270 C	CNEL	106.3	6	521.9	-65.3	5.2	-6.4	-2.7	-1.73	0.0	0.2	0.0	6.7	42.2	
C-301 Compressor	CNEL	106.8	3	530.5	-65.5	5.2	-9.2	-1.7	-0.24	0.0	2.1	0.0	6.7	44.1	
C-301 Motor	CNEL	106.8	4	527.2	-65.4	5.2	-10.8	-2.3	-0.28	0.0	2.0	0.0	6.7	41.9	
C-351 Compressor	CNEL	106.8	4	542.5	-65.7	5.2	-8.1	-1.7	-0.81	0.0	2.1	0.0	6.7	44.5	
C-351 Motor	CNEL	106.8	5	545.0	-65.7	5.0	-4.2	-3.6	-1.49	0.0	1.1	0.0	6.7	44.6	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	298.8	-60.5	5.1	-6.8	-0.6	-0.13	0.0	1.0	-35.6	0.0	37.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	238.4	-58.5	4.2	-19.7	-0.6		-7.8	0.3	0.0	6.7	29.4	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	238.0	-58.5	4.2	-19.1	-0.8	-0.12	0.0	0.3	0.0	6.7	33.1	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	227.3	-58.1	4.1	-5.6	-1.0	-0.03	2.6	0.6	0.0	6.7	55.8	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	233.0	-58.3	4.2	-20.9	-0.6		-7.7	0.4	0.0	6.7	34.3	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	238.3	-58.5	4.2	-19.6	-0.6	-0.01	-7.6	0.3	0.0	6.7	28.5	
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	222.5	-57.9	4.1	-17.4	-0.5		2.5	0.9	0.0	6.7	38.6	
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	294.8	-60.4	4.7	-17.5	-0.8	-0.69	-7.8	11.8	0.0	6.7	33.9	
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	284.4	-60.1	4.6	-4.3	-1.4	-0.74	1.6	0.8	0.0	6.7	44.9	
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	316.5	-61.0	4.4	-18.9	-0.9	-0.63	-7.8	11.9	0.0	6.7	34.3	
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	301.1	-60.6	4.4	-8.7	-1.0	-0.17	1.4	1.2	0.0	6.7	43.8	
Cooling Tower M 512	CNEL	95.7		293.1	-60.3	5.1	-21.5	-1.1	-0.73	0.0	2.8	0.0	6.7	26.6	
Cooling Tower M 513	CNEL	95.7		291.9	-60.3	5.1	-6.3	-1.3	-0.72	0.0	2.3	0.0	6.7	41.1	
Cooling Tower M 514	CNEL	95.7		294.4	-60.4	5.1	-22.0	-1.1	-0.73	0.0	6.1	0.0	6.7	29.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	431.9	-63.7	4.1	-5.4	-0.8	-0.09	-2.0	0.1	0.0	6.7	34.7	
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	410.9	-63.3	5.1	-12.7	-0.1		0.0	0.1	0.0	6.7	31.2	
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	409.0	-63.2	5.1	-8.3	-0.1		0.0	0.0	0.0	6.7	33.3	
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	409.7	-63.2	4.6	-7.1	-0.1		0.0	0.6	0.0	6.7	34.9	
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	410.4	-63.3	5.0	-9.8	-0.1		0.0	0.0	0.0	6.7	31.7	
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	408.4	-63.2	5.1	-6.8	-0.1		0.0	0.6	0.0	6.7	37.5	
FD Motor	CNEL	103.3	2	412.0	-63.3	5.2	-22.6	-2.5		0.0	1.1	0.0	6.7	27.8	
Feed Compressor -B Motor	CNEL	103.8	5	417.4	-63.4	4.9	-3.1	-3.0	-1.04	0.0	0.1	0.0	6.7	44.9	
Feed Compressor-A Compressor	CNEL	104.0	5	402.2	-63.1	5.0	-6.0	-1.9	-0.97	0.0	0.3	0.0	6.7	44.1	
Feed Compressor-A Motor	CNEL	103.8	6	404.8	-63.1	4.9	-18.8	-1.9	-0.21	0.0	0.9	0.0	6.7	32.1	
Feed Compressor-B Compressor	CNEL	104.0	7	414.6	-63.3	5.0	-1.6	-2.3	-0.68	0.0	0.2	0.0	6.7	47.8	
H2S Compressor 18-C-271	CNEL	105.3	6	232.2	-58.3	4.6	-2.7	-1.5	-0.44	0.0	1.7	0.0	6.7	55.4	
Heater # 5-Heater	CNEL	91.1	13	585.0	-66.3	5.4	-21.6	-1.4	-0.17	0.0	0.5	0.0	6.7	17.2	
Heater # 5-Heater	CNEL	91.1	13	580.8	-66.3	5.4	-21.6	-1.4	-0.04	0.0	0.5	0.0	6.7	17.3	
Heater # 5-Heater	CNEL	91.1	13	589.0	-66.4	5.4	-21.9	-1.5	-0.29	0.0	2.3	0.0	6.7	18.4	
Hydro Heater H-402	CNEL	98.1		271.2	-59.7	5.0	-14.1	-0.5	-0.57	0.0	1.0	0.0	6.7	35.9	
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	426.5	-63.6	5.3	-14.0	-0.1		0.0	0.1	0.0	6.7	21.4	
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	427.3	-63.6	5.3	-13.5	-0.1		0.0	0.0	0.0	6.7	22.0	
ID Fan-ID Fan - North	CNEL	92.2	8	425.0	-63.6	5.2	-11.2	-0.1		0.0	0.1	0.0	6.7	29.4	
ID Fan-ID Fan - North 2	CNEL	91.4	7	427.7	-63.6	5.3	-12.6	-0.1		0.0	0.0	0.0	6.7	27.0	
ID Fan-ID Fan - South	CNEL	92.3	9	426.1	-63.6	5.2	-16.5	-0.1		0.0	0.0	0.0	6.7	24.1	
ID Fan-ID Fan - South 2	CNEL	91.4	7	428.2	-63.6	5.3	-12.0	-0.1		0.0	0.0	0.0	6.7	27.6	
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	426.2	-63.6	4.9	-11.8	-0.1		0.0	0.0	0.0	6.7	30.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 56A/B	CNEL	93.7		255.2	-59.1	5.0	-5.0	-1.9	-0.57	0.0	2.0	0.0	6.7	40.7
Motor & Pump P 120/121	CNEL	96.2	2	220.5	-57.9	5.0	-4.6	-1.0	-0.09	0.0	1.6	0.0	6.7	45.9
Motor & Pump P 211/212	CNEL	93.7		256.1	-59.2	5.1	-20.1	-1.2	-0.22	0.0	0.6	0.0	6.7	25.4
Motor & Pump P 215/214	CNEL	94.6		252.4	-59.0	5.1	-20.8	-1.2	-0.21	0.0	0.7	0.0	6.7	25.9
Motor & Pump P 216	CNEL	98.3		250.9	-59.0	5.0	-20.4	-1.2	-0.16	0.0	1.4	0.0	6.7	30.6
Motor & Pump P 217/218	CNEL	93.7		254.6	-59.1	5.4	-21.2	-1.3	-0.22	0.0	0.7	0.0	6.7	24.6
Motor & Pump P 300	CNEL	97.1	2	209.0	-57.4	5.0	-3.7	-1.3	-0.44	0.0	0.4	0.0	6.7	46.3
Motor & Pump P 301	CNEL	102.1	2	209.8	-57.4	5.0	-3.7	-1.3	-0.44	0.0	0.7	0.0	6.7	51.5
Motor & Pump P 302	CNEL	97.1	2	208.1	-57.4	5.0	-3.7	-1.3	-0.44	0.0	1.4	0.0	6.7	47.3
Motor & Pump P 303	CNEL	97.1	2	207.4	-57.3	4.9	-3.8	-1.2	-0.36	0.0	1.7	0.0	6.7	47.6
Motor & Pump P 305	CNEL	97.5	2	206.7	-57.3	4.9	-6.4	-0.8	-0.29	0.0	0.5	0.0	6.7	44.8
Motor & Pump P 306	CNEL	112.6	4	202.7	-57.1	4.7	-1.7	-2.5	-0.43	0.0	1.4	0.0	6.7	63.7
Motor & Pump P 307	CNEL	102.1	2	212.3	-57.5	5.0	-8.6	-0.7	-0.21	0.0	0.0	0.0	6.7	46.7
Motor & Pump P 309	CNEL	97.5	2	206.0	-57.3	4.9	-7.3	-0.7	-0.29	0.0	4.7	0.0	6.7	48.2
Motor & Pump P 312	CNEL	101.5	2	224.3	-58.0	5.2	-5.7	-0.9	-0.49	0.0	1.3	0.0	6.7	49.6
Motor & Pump P 313	CNEL	101.5	2	225.3	-58.0	5.2	-5.7	-0.9	-0.49	0.0	2.8	0.0	6.7	50.9
Motor & Pump P 315	CNEL	102.9	2	229.0	-58.2	5.0	-18.2	-0.8	-0.18	0.0	12.5	0.0	6.7	49.7
Motor & Pump P 316	CNEL	102.9	2	230.2	-58.2	5.1	-7.9	-1.0	-0.50	0.0	3.4	0.0	6.7	50.4
Motor & Pump P 317	CNEL	102.9	2	231.5	-58.3	5.0	-16.7	-0.7	-0.52	0.0	11.4	0.0	6.7	49.8
Motor & Pump P 318	CNEL	100.2	1	228.2	-58.2	5.2	-16.9	-0.8	-0.15	0.0	8.9	0.0	6.7	45.1
Motor & Pump P 319	CNEL	100.2	1	227.3	-58.1	5.2	-16.5	-0.8	-0.15	0.0	8.4	0.0	6.7	45.1
Motor & Pump P 327	CNEL	111.2	3	198.8	-57.0	4.9	-3.1	-1.9	-0.14	0.0	3.7	0.0	6.7	64.4
Motor & Pump P 328	CNEL	109.9	5	205.3	-57.2	4.7	-4.1	-1.1	-0.35	0.0	4.5	0.0	6.7	63.0
Motor & Pump P 329	CNEL	110.2	5	204.0	-57.2	4.7	-2.4	-1.2	-0.41	0.0	4.5	0.0	6.7	64.8
Motor & Pump P 451	CNEL	93.7		276.3	-59.8	5.1	-12.0	-1.3	-1.24	0.0	5.4	0.0	6.7	36.3
Motor & Pump P 453	CNEL	93.7		285.9	-60.1	5.1	-5.2	-2.2	-1.19	0.0	1.8	0.0	6.7	38.5
Motor & Pump P 454	CNEL	93.7		274.9	-59.8	5.1	-12.1	-1.3	-1.27	0.0	5.4	0.0	6.7	36.3
Motor & Pump P 457	CNEL	93.7		286.9	-60.1	5.1	-5.2	-2.2	-1.16	0.0	0.5	0.0	6.7	37.3
Motor & Pump P 458	CNEL	93.7		277.2	-59.8	5.1	-12.0	-1.3	-1.21	0.0	5.9	0.0	6.7	36.9
Motor & Pump P 459	CNEL	93.7		274.3	-59.8	5.1	-12.2	-1.3	-1.24	0.0	5.3	0.0	6.7	36.2
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		271.5	-59.7	5.2	-8.2	-1.6	-0.26	0.0	2.2	0.0	6.7	40.6
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		270.7	-59.6	5.2	-12.3	-1.3	-0.26	0.0	4.2	0.0	6.7	38.8
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		263.2	-59.4	5.2	-13.7	-1.0	-0.40	0.0	1.4	0.0	6.7	34.2
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		262.7	-59.4	5.2	-9.3	-1.2	-0.35	0.0	0.2	0.0	6.7	37.2
Motor & Pump P 1601 A	CNEL	96.3	2	295.7	-60.4	5.0	-5.3	-1.8	-1.01	0.0	1.9	0.0	6.7	41.3
Motor & Pump P 1601 B	CNEL	96.3	2	297.1	-60.5	5.0	-3.7	-2.0	-1.00	0.0	1.3	0.0	6.7	42.1
Motor & Pump P 1602 A	CNEL	96.3	2	298.2	-60.5	5.0	-2.2	-2.3	-0.99	0.0	0.9	0.0	6.7	42.9
Motor & Pump P 1602 B	CNEL	96.5	2	299.6	-60.5	5.0	-1.0	-2.5	-0.95	0.0	0.9	0.0	6.7	44.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	279.2	-59.9	5.2	-11.5	-1.3	-0.40	0.0	0.1	0.0	6.7	35.5
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	276.7	-59.8	5.2	-13.4	-1.2	-0.85	0.0	0.2	0.0	6.7	33.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	275.5	-59.8	5.2	-11.3	-1.2	-0.84	0.0	0.1	0.0	6.7	35.4
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	270.4	-59.6	5.2	-11.9	-1.3	-0.26	0.0	0.6	0.0	6.7	36.0
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	269.5	-59.6	5.1	-11.6	-1.3	-0.26	0.0	1.7	0.0	6.7	37.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	279.1	-59.9	5.2	-6.6	-1.6	-0.77	0.0	0.8	0.0	6.7	40.2
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	277.1	-59.8	5.2	-5.4	-1.7	-0.68	0.0	1.4	0.0	6.7	42.0
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	273.5	-59.7	5.2	-1.5	-2.2	-0.72	0.0	0.9	0.0	6.7	44.9
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	275.1	-59.8	5.2	-3.2	-2.1	-0.59	0.0	1.5	0.0	6.7	44.0
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	237.8	-58.5	4.7	-6.4	-1.1		0.0	2.2	0.0	6.7	51.6
P-2 A/B	CNEL	98.5		642.8	-67.2	5.7	-22.5	-2.3		0.0	14.3	0.0	6.7	33.3
P-50 A/B	CNEL	98.1		599.1	-66.5	5.7	-9.7	-1.8	-1.34	0.0	3.0	0.0	6.7	34.1
P-51 A/B	CNEL	98.1		601.1	-66.6	5.7	-24.1	-2.4	-0.22	0.0	1.2	0.0	6.7	18.4
P-060 A/B	CNEL	98.1		594.0	-66.5	5.7	-6.2	-2.3	-1.90	0.0	0.1	0.0	6.7	33.8
P-63	CNEL	98.5		620.4	-66.8	5.7	-16.5	-1.7	-1.67	0.0	1.4	0.0	6.7	25.5
P-70 A/B	CNEL	98.1		596.2	-66.5	5.7	-24.0	-2.2	-0.95	0.0	1.2	0.0	6.7	17.9
P-73 A/B	CNEL	98.5		638.8	-67.1	5.7	-22.2	-2.2		0.0	9.1	0.0	6.7	28.5
P-251 A/B	CNEL	98.2		471.2	-64.5	5.6	-11.0	-1.4	-0.78	0.0	1.5	0.0	6.7	34.3
P-252 A/B	CNEL	98.2		468.1	-64.4	5.6	-12.4	-1.5	-1.14	0.0	0.2	0.0	6.7	31.3
P-253	CNEL	98.2		474.6	-64.5	5.6	-12.1	-1.5	-1.14	0.0	1.2	0.0	6.7	32.4
P-254 A/B	CNEL	98.2		480.7	-64.6	5.6	-9.5	-1.6	-1.56	0.0	0.1	0.0	6.7	33.4
P-255 A/B	CNEL	98.2		477.8	-64.6	5.6	-9.7	-1.6	-1.56	0.0	0.1	0.0	6.7	33.2
P-255 A/B	CNEL	98.2		465.0	-64.3	5.6	-21.3	-1.5	-0.74	0.0	7.0	0.0	6.7	29.6
P-256 A/B	CNEL	98.2		474.0	-64.5	5.6	-10.1	-1.6	-1.55	0.0	0.8	0.0	6.7	33.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-259 A/B	CNEL	98.2		468.2	-64.4	5.6	-14.9	-1.4	-0.78	0.0	2.9	0.0	6.7	31.9
P-260	CNEL	99.1		451.5	-64.1	5.6	-17.5	-1.3	-0.35	0.0	2.2	0.0	6.7	30.4
P-261 A/B	CNEL	98.0		431.8	-63.7	5.6	-12.9	-1.3	-0.97	0.0	0.9	0.0	6.7	32.3
P-262 A/B	CNEL	99.1		444.3	-63.9	5.6	-21.9	-1.5	-0.35	0.0	4.4	0.0	6.7	28.1
P-263 A/B	CNEL	99.4		447.6	-64.0	5.6	-21.6	-1.5	-0.35	0.0	4.3	0.0	6.7	28.6
P-270 A/B	CNEL	98.5		516.2	-65.2	5.7	-11.3	-1.5	-0.27	0.0	3.2	0.0	6.7	35.7
P-271 A/B	CNEL	98.2		489.0	-64.8	5.7	-9.6	-1.6	-1.56	0.0	0.3	0.0	6.7	33.3
P-272 A/B	CNEL	98.2		485.0	-64.7	5.7	-9.9	-1.6	-1.56	0.0	0.3	0.0	6.7	33.0
P-273 A/B	CNEL	98.5		513.2	-65.2	5.7	-11.1	-1.5	-0.27	0.0	3.1	0.0	6.7	35.9
P-275 A/B/C	CNEL	98.2		484.2	-64.7	5.7	-11.1	-1.5	-1.12	0.0	1.3	0.0	6.7	33.4
P-305	CNEL	99.3		559.8	-66.0	5.7	-22.0	-1.6	-0.12	0.0	9.3	0.0	6.7	31.2
P-306	CNEL	100.8		568.0	-66.1	5.7	-8.3	-1.8	-1.24	0.0	1.9	0.0	6.7	37.6
P-309	CNEL	99.3		561.8	-66.0	5.7	-21.8	-1.6	-0.19	0.0	10.2	0.0	6.7	32.2
P-328	CNEL	100.8		572.9	-66.2	5.7	-5.5	-2.3	-2.59	0.0	1.5	0.0	6.7	38.1
P-329	CNEL	100.8		570.4	-66.1	5.7	-5.5	-2.3	-2.51	0.0	1.5	0.0	6.7	38.2
P-353	CNEL	98.5		553.6	-65.9	5.5	-5.1	-2.2	-2.23	0.0	0.0	0.0	6.7	35.3
P-358 A/B	CNEL	99.4		557.2	-65.9	5.7	-10.0	-1.6	-1.14	0.0	2.8	0.0	6.7	35.9
P-359 A/B	CNEL	99.4		559.8	-66.0	5.7	-17.9	-1.6	-1.81	0.0	0.9	0.0	6.7	25.4
P-360 A/B	CNEL	99.4		564.7	-66.0	5.7	-15.1	-1.6	-2.16	0.0	1.1	0.0	6.7	27.9
P-361A	CNEL	98.1		583.7	-66.3	5.5	-3.2	-2.0	-0.23	0.0	0.4	0.0	6.7	38.9
P-371 A/B	CNEL	98.0		334.5	-61.5	5.3	-12.0	-1.0	-0.76	0.0	0.8	0.0	6.7	35.4
P-373 A/B	CNEL	98.0		350.3	-61.9	5.3	-14.1	-1.0		0.0	0.4	0.0	6.7	33.5
P-374 A/B	CNEL	98.0		347.0	-61.8	5.3	-16.1	-1.1		0.0	0.6	0.0	6.7	31.7
P-375 A/B	CNEL	98.0		339.5	-61.6	5.3	-10.4	-1.0	-0.75	0.0	0.5	0.0	6.7	36.7
P-376	CNEL	98.0		344.9	-61.7	5.3	-15.1	-1.0	-0.75	0.0	0.6	0.0	6.7	31.9
P-376 A/B	CNEL	98.0		353.7	-62.0	5.3	-15.1	-1.0		0.0	0.5	0.0	6.7	32.5
P-377	CNEL	98.0		342.9	-61.7	5.3	-14.9	-1.0	-0.75	0.0	0.6	0.0	6.7	32.1
P-1101 A	CNEL	98.9		625.3	-66.9	5.6	-16.4	-1.8	-0.03	0.0	0.2	0.0	6.7	26.3
P-1103	CNEL	98.9		624.0	-66.9	5.6	-17.2	-1.8	-0.05	0.0	0.2	0.0	6.7	25.5
P-1105 A/B/C	CNEL	98.9		630.2	-67.0	5.6	-15.4	-1.8		0.0	0.2	0.0	6.7	27.2
P-1800	CNEL	98.9		673.5	-67.6	5.7	-19.1	-1.9		0.0	6.5	0.0	6.7	29.3
P-1801	CNEL	98.9		715.0	-68.1	5.7	-24.9	-2.9		0.0	18.0	0.0	6.7	33.4
P-1802	CNEL	98.9		713.7	-68.1	5.7	-24.9	-2.9		0.0	16.5	0.0	6.7	31.9
P-1803	CNEL	99.1		588.6	-66.4	5.7	-24.4	-2.3		0.0	1.3	0.0	6.7	19.6
P-1804	CNEL	99.1		607.2	-66.7	5.7	-4.8	-2.6	-0.97	0.0	0.4	0.0	6.7	36.9
P-1805	CNEL	99.1		610.0	-66.7	5.7	-4.8	-2.6	-0.84	0.0	0.5	0.0	6.7	37.0
P-1806	CNEL	99.1		566.8	-66.1	5.7	-9.3	-1.7		0.0	0.3	0.0	6.7	34.7
P-1809 A	CNEL	98.9		681.5	-67.7	5.7	-19.4	-1.9		0.0	3.5	0.0	6.7	25.9
P-1810 A/B/C	CNEL	99.0		607.2	-66.7	5.7	-24.8	-2.5		0.0	3.9	0.0	6.7	21.3
P-1811 A/B	CNEL	99.1		573.0	-66.2	5.7	-3.5	-2.3	-1.02	0.0	0.3	0.0	6.7	38.8
P-1811 A/B	CNEL	99.1		613.5	-66.7	5.7	-7.9	-2.1	-0.05	0.0	2.4	0.0	6.7	37.1
P-1847 A/B	CNEL	99.4		554.7	-65.9	5.7	-18.5	-1.5		0.0	0.5	0.0	6.7	26.3
P-1849 A/B	CNEL	99.4		561.0	-66.0	5.7	-18.6	-1.5		0.0	0.5	0.0	6.7	26.2
P-1853	CNEL	99.1		513.5	-65.2	5.7	-7.6	-1.8	-1.23	0.0	1.7	0.0	6.7	37.3
Piping Furnace Tanks	CNEL	87.1	72	385.3	-62.7	4.1	-11.4	-6.6	-0.11	0.0	2.8	0.0	6.7	19.8
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	380.9	-62.6	4.3	-6.0	-7.9	-0.42	0.0	1.0	0.0	6.7	33.4
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	342.6	-61.7	4.7	-19.7	-2.1	-0.72	0.0	4.0	0.0	6.7	45.6
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	345.5	-61.8	4.7	-20.7	-4.8	-0.70	0.0	3.5	0.0	6.7	42.2
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	648.1	-67.2	4.8	-23.3	-2.3		0.0	1.3	0.0	6.7	30.5
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	619.1	-66.8	4.7	-7.8	-2.2		0.0	1.7	0.0	6.7	47.4
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	595.8	-66.5	4.6	-9.2	-2.1		0.0	0.2	0.0	6.7	37.8
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	632.7	-67.0	4.7	-20.6	-2.0		0.0	2.9	0.0	6.7	35.8
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	601.6	-66.6	4.7	-18.6	-1.9		0.0	0.4	0.0	6.7	28.7
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	598.7	-66.5	4.7	-12.9	-2.0		0.0	0.7	0.0	6.7	34.3
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	594.4	-66.5	4.6	-12.3	-1.7		0.0	0.8	0.0	6.7	38.4
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	608.6	-66.7	4.7	-15.5	-1.8		0.0	0.9	0.0	6.7	34.3
Pre-Treat Train-Roof 01	CNEL	113.1	2037	623.7	-66.9	3.7	-9.2	-2.3		0.0	1.5	0.0	6.7	46.5
PSA Pipe 3" Lagging	CNEL	80.6	11	359.8	-62.1	3.2	-3.5	-3.1	-0.01	0.0	1.4	0.0	6.7	23.1
PSA Skid Additional Piping w NC	CNEL	116.6	57	340.0	-61.6	4.6	-19.2	-2.2	-0.76	0.0	4.2	0.0	6.7	48.3
Reformer-Burner Reformer East	CNEL	97.3	269	392.5	-62.9	3.5	-3.9	-2.2		0.0	1.1	0.0	6.7	42.7
Reformer-Burner Reformer North	CNEL	95.9	192	386.0	-62.7	3.5	-5.2	-2.1		0.0	1.3	0.0	6.7	37.4
Reformer-Burner Reformer South	CNEL	95.8	191	403.9	-63.1	3.4	-21.5	-1.8		0.0	3.1	0.0	6.7	25.6
Reformer-Burner Reformer West	CNEL	97.3	268	397.2	-63.0	3.2	-18.3	-1.5		0.0	1.5	0.0	6.7	29.0
RFG A from battery to process	CNEL	99.4	87	385.8	-62.7	4.3	-6.9	-7.5	-0.54	0.0	0.9	0.0	6.7	33.6
RFG A from battery to process w NC	CNEL	115.2	42	344.4	-61.7	4.7	-23.4	-5.8	-0.57	0.0	3.2	0.0	6.7	38.2
Stack Noise	CNEL	108.4		432.0	-63.7	2.9	-0.8	-2.6		-6.8	0.3	0.0	6.7	44.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Steam Turbine-Facade 01	CNEL	99.6	29	344.4	-61.7	5.1	-18.6	-2.8	-0.50	0.0	0.2	0.0	6.7	28.0	
Steam Turbine-Facade 02	CNEL	96.2	13	347.2	-61.8	5.1	-22.4	-3.4	-0.66	0.0	0.5	0.0	6.7	20.3	
Steam Turbine-Facade 03	CNEL	99.6	29	342.7	-61.7	5.1	-16.0	-2.4	-0.68	0.0	0.2	0.0	6.7	30.8	
Steam Turbine-Facade 04	CNEL	96.2	13	340.0	-61.6	5.1	-8.9	-3.5	-0.19	0.0	0.1	0.0	6.7	33.8	
Steam Turbine-Roof 01	CNEL	99.7	30	343.6	-61.7	4.6	-16.9	-2.8	-0.60	0.0	2.3	0.0	6.7	31.4	
Tank Farm Pump 1	CNEL	99.0	3	535.9	-65.6	5.5	-19.1	-2.2		0.0	0.8	0.0	6.7	25.2	
Tank Farm Pump 2	CNEL	99.0	3	556.3	-65.9	5.6	-18.6	-2.2		0.0	3.0	0.0	6.7	27.5	
Tank Farm Pump 3	CNEL	99.0	3	562.0	-66.0	5.6	-16.7	-2.2		0.0	2.5	0.0	6.7	28.8	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	146.5	-54.3	2.0	-5.1	-2.1	-0.01	0.0	0.6	-13.8	0.0	39.7	
XF-1502 Splitter Area 1	CNEL	104.5		276.9	-59.8	2.9	-0.3	-2.0	-0.83	-4.5	0.1	0.0	6.7	46.8	
XF-1502 Splitter Area 2	CNEL	104.5		278.7	-59.9	2.9	-4.7	-1.9	-0.84	-4.2	0.2	0.0	6.7	42.8	
XF-1504 Splitter Area 1	CNEL	104.5		280.8	-60.0	2.9	0.0	-1.9	-0.94	-4.2	0.1	0.0	6.7	47.3	
XF-1504 Splitter Area 2	CNEL	104.5		282.6	-60.0	2.9	-4.6	-1.9	-0.94	-4.2	0.3	0.0	6.7	42.7	
XF 251, 250, 271, 270	CNEL	101.1	128	486.3	-64.7	4.1	-3.7	-1.4	-0.02	-2.4	0.3	0.0	6.7	39.9	
XF 260, 261A, 261 B	CNEL	99.9	97	443.5	-63.9	4.0	-5.6	-1.3	-0.51	-2.5	0.6	0.0	6.7	37.2	
XF 304, XF 321	CNEL	110.5	56	205.3	-57.2	2.9	-5.9	-0.4	-0.06	-2.1	0.2	0.0	6.7	54.4	
XF 313, XF 314	CNEL	113.0	18	191.6	-56.6	2.9	-4.0	-0.7		-3.6	1.5	0.0	6.7	59.1	
XF 335-1, XF 335-2	CNEL	113.4	54	199.5	-57.0	2.9	-3.0	-1.0	-0.23	-3.0	0.9	0.0	6.7	59.6	
XF 353A/B	CNEL	95.4	35	567.7	-66.1	4.4	-4.7	-1.0	-0.01	-2.0	0.4	0.0	6.7	33.0	
XF 353A/B	CNEL	95.4	35	546.0	-65.7	4.3	-5.7	-1.0		-1.9	0.4	0.0	6.7	32.6	
XF 354A/B	CNEL	95.4	35	555.8	-65.9	4.3	-4.5	-1.4	0.00	-2.3	0.4	0.0	6.7	32.8	
XF 503	CNEL	113.0	21	248.9	-58.9	2.9	-4.3	-2.6	-0.74	-3.7	0.7	0.0	6.7	53.1	
XF - 1601	CNEL	96.6		298.6	-60.5	2.9	0.0	-1.0		-2.5	0.1	0.0	6.7	42.3	
XF - 1602	CNEL	96.6		303.8	-60.6	2.9	-1.1	-0.9		-2.2	0.1	0.0	6.7	41.4	
XF Module 1510	CNEL	108.3		275.5	-59.8	2.9	-6.5	-1.2	-0.05	-3.6	0.1	0.0	6.7	46.9	
XF Module 1519	CNEL	109.0		272.8	-59.7	2.9	-3.4	-1.6	-0.05	-3.9	0.1	0.0	6.7	50.1	
xxxx xxxx xxxx xxxx	CNEL		606								7.0			28.8	
xxxx xxxx xxxx xxxx	CNEL		606								7.3			29.0	
xxxx xxxx xxxx xxxx	CNEL		917								0.5			31.4	
xxxx xxxx xxxx xxxx	CNEL		917								0.6			31.4	
xxxx xxxx xxxx xxxx	CNEL		608								1.0			62.5	
xxxx xxxx xxxx xxxx	CNEL		608								0.5			65.1	
xxxx xxxx xxxx xxxx	CNEL		228								6.7			15.4	
xxxx xxxx xxxx xxxx	CNEL		520								7.3			35.0	
xxxx xxxx xxxx xxxx	CNEL		1341								6.1			35.4	
xxxx xxxx xxxx xxxx	CNEL		450								6.1			21.9	
Receiver RMHP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 69.8 dB(A) Ld 7-19 dB(A) Leq,N 64.7 dB(A) Le 19-22 dB(A) CNEL 72.8 dB(A) Lmax day hr dB(A) Ld 7-															
ID Fan Motor	CNEL	104.4	2	434.4	-63.7	5.2	-23.0	-2.2		0.0	0.0	0.0	6.7	27.4	
18-1855 A/B	CNEL	98.8		463.1	-64.3	5.5	-20.1	-1.4		0.0	0.0	0.0	6.7	25.2	
18-1856 A/B	CNEL	98.8		456.6	-64.2	5.5	-14.7	-1.4		0.0	0.0	0.0	6.7	30.7	
18-1857 A/B	CNEL	98.8		469.4	-64.4	5.5	-20.3	-1.4		0.0	0.0	0.0	6.7	24.8	
18-1858 A/B	CNEL	98.8		473.8	-64.5	5.4	-19.0	-1.4		0.0	0.0	0.0	6.7	26.0	
18-PK 1802 Air Compressor Package	CNEL	103.1		454.6	-64.1	5.6	-11.5	-0.7		0.0	0.0	0.0	6.7	39.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	602.9	-66.6	5.5	-11.7	-2.4	-0.23	0.0	0.1	-4.8	1.0	29.9	
Air Compressor C 1	CNEL	110.0	5	634.9	-67.0	5.6	-22.1	-1.4		0.0	5.4	0.0	6.7	37.1	
Air Compressor Pump	CNEL	100.3		537.0	-65.6	5.5	-13.3	-2.6		0.0	0.0	0.0	6.7	31.0	
Blower F 401	CNEL	113.0		639.8	-67.1	5.4	-17.3	-0.8	-0.11	0.0	0.0	0.0	6.7	39.8	
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	466.6	-64.4	5.3	-15.1	-0.9	-0.67	0.0	0.6	0.0	6.7	30.0	
Boiler Feed Water Pump A	CNEL	97.1	3	448.1	-64.0	5.4	-13.4	-1.4		0.0	0.0	0.0	6.7	30.4	
Boiler Feed Water Pump B	CNEL	97.1	3	449.1	-64.0	5.4	-13.5	-1.4		0.0	0.0	0.0	6.7	30.3	
C370 A Motor	CNEL	103.6	3	522.8	-65.4	5.1	-11.7	-1.8		0.0	0.1	0.0	6.7	36.6	
C370 B Motor	CNEL	108.6	3	512.7	-65.2	5.1	-14.2	-1.7		0.0	0.0	0.0	6.7	39.3	
C370A	CNEL	103.8	5	521.4	-65.3	5.1	-11.9	-1.7		0.0	0.0	0.0	6.7	36.7	
C370B	CNEL	103.8	5	511.3	-65.2	5.1	-12.1	-1.7		0.0	0.0	0.0	6.7	36.6	
C-270 A	CNEL	106.3	6	456.1	-64.2	5.1	-16.6	-1.4	-1.00	0.0	0.2	0.0	6.7	35.1	
C-270 B	CNEL	106.3	6	460.3	-64.3	5.1	-15.5	-1.4	-1.06	0.0	0.2	0.0	6.7	36.1	
C-270 C	CNEL	106.3	6	464.4	-64.3	5.1	-14.9	-1.4	-1.04	0.0	0.4	0.0	6.7	36.7	
C-301 Compressor	CNEL	106.8	3	429.7	-63.7	5.0	-15.0	-1.3	-0.22	0.0	0.1	0.0	6.7	38.4	
C-301 Motor	CNEL	106.8	4	432.9	-63.7	5.0	-16.1	-1.9	-0.26	0.0	0.1	0.0	6.7	36.7	
C-351 Compressor	CNEL	106.8	4	436.5	-63.8	5.0	-16.2	-1.3	-0.85	0.0	0.1	0.0	6.7	36.4	
C-351 Motor	CNEL	106.8	5	439.1	-63.8	4.8	-17.0	-1.9	-0.97	0.0	0.2	0.0	6.7	34.7	
Cars Pumping 6 times in during delivery	CNEL	134.7	361	617.5	-66.8	5.6	-10.2	-1.1	-0.32	0.0	0.0	-35.6	0.0	26.2	
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	660.8	-67.4	5.3	-22.3	-1.5	-0.57	0.1	0.0	0.0	6.7	25.0	
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	656.0	-67.3	5.3	-18.2	-1.5	-0.80	0.0	0.0	0.0	6.7	24.7	
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	667.1	-67.5	5.3	-17.9	-1.3	-0.83	3.9	0.0	0.0	6.7	34.9	
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	670.8	-67.5	5.3	-23.9	-1.9	-0.72	-3.0	0.0	0.0	6.7	25.6	
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	658.3	-67.4	5.3	-23.8	-1.9	-0.71	-2.9	0.0	0.0	6.7	19.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	679.7	-67.6	5.3	-23.7	-2.3	-0.57	-7.8	0.0	0.0	6.7	10.4
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	588.0	-66.4	5.3	-23.2	-1.9		0.0	0.3	0.0	6.7	18.6
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	600.3	-66.6	5.3	-23.9	-2.2		-7.8	0.0	0.0	6.7	9.4
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	563.9	-66.0	5.0	-23.1	-1.8		0.0	0.0	0.0	6.7	21.3
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	581.6	-66.3	5.1	-24.2	-2.3		-7.8	4.4	0.0	6.7	16.2
Cooling Tower M 512	CNEL	95.7		595.4	-66.5	5.5	-24.7	-2.7		0.0	0.0	0.0	6.7	14.1
Cooling Tower M 513	CNEL	95.7		596.8	-66.5	5.5	-24.7	-2.7		0.0	0.0	0.0	6.7	13.9
Cooling Tower M 514	CNEL	95.7		593.9	-66.5	5.5	-24.7	-2.7		0.0	0.0	0.0	6.7	14.1
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	448.9	-64.0	4.2	-9.7	-0.8		-1.8	0.0	0.0	6.7	30.3
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	444.9	-64.0	5.1	-13.5	-0.1		0.0	0.0	0.0	6.7	29.6
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	445.9	-64.0	5.2	-14.0	-0.1		0.0	0.0	0.0	6.7	26.8
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	446.2	-64.0	4.7	-11.5	-0.1		0.0	0.0	0.0	6.7	29.2
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	446.6	-64.0	5.1	-16.1	-0.1		0.0	0.0	0.0	6.7	24.8
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	447.5	-64.0	5.1	-16.4	-0.1		0.0	0.0	0.0	6.7	26.5
FD Motor	CNEL	103.3	2	443.8	-63.9	5.3	-24.2	-3.1		0.0	2.7	0.0	6.7	26.8
Feed Compressor -B Motor	CNEL	103.8	5	485.5	-64.7	5.0	-13.5	-2.3		0.0	0.0	0.0	6.7	35.0
Feed Compressor-A Compressor	CNEL	104.0	5	497.3	-64.9	5.1	-11.6	-1.6		0.0	0.0	0.0	6.7	37.7
Feed Compressor-A Motor	CNEL	103.8	6	498.8	-65.0	5.1	-12.0	-2.2		0.0	0.1	0.0	6.7	36.4
Feed Compressor-B Compressor	CNEL	104.0	7	483.7	-64.7	5.1	-12.8	-1.6		0.0	0.0	0.0	6.7	36.8
H2S Compressor 18-C-271	CNEL	105.3	6	637.0	-67.1	5.5	-15.7	-2.0	-0.46	0.0	0.0	0.0	6.7	32.2
Heater # 5-Heater	CNEL	91.1	13	465.5	-64.4	5.3	-22.7	-1.2	-0.84	0.0	5.5	0.0	6.7	22.4
Heater # 5-Heater	CNEL	91.1	13	469.5	-64.4	5.3	-23.4	-1.4	-0.96	0.0	2.6	0.0	6.7	18.5
Heater # 5-Heater	CNEL	91.1	13	461.7	-64.3	5.3	-22.7	-1.2	-0.71	0.0	1.7	0.0	6.7	18.8
Hydro Heater H-402	CNEL	98.1		622.0	-66.9	5.5	-24.2	-1.8		0.0	0.0	0.0	6.7	17.3
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	433.7	-63.7	5.3	-22.9	-0.1		0.0	0.7	0.0	6.7	12.8
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	434.1	-63.7	5.3	-23.0	-0.1		0.0	0.5	0.0	6.7	12.9
ID Fan-ID Fan - North	CNEL	92.2	8	435.0	-63.8	5.3	-13.0	-0.1		0.0	0.1	0.0	6.7	27.4
ID Fan-ID Fan - North 2	CNEL	91.4	7	432.6	-63.7	5.3	-23.1	-0.1		0.0	0.7	0.0	6.7	17.1
ID Fan-ID Fan - South	CNEL	92.3	9	435.6	-63.8	5.3	-23.1	-0.1		0.0	0.4	0.0	6.7	17.8
ID Fan-ID Fan - South 2	CNEL	91.4	7	432.9	-63.7	5.3	-23.4	-0.1		0.0	0.6	0.0	6.7	16.6
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	434.6	-63.8	4.9	-18.9	-0.1		0.0	0.9	0.0	6.7	23.8
Motor & Pump P 56A/B	CNEL	93.7		627.5	-66.9	5.6	-24.8	-4.0	-0.14	0.0	0.0	0.0	6.7	9.9
Motor & Pump P 120/121	CNEL	96.2	2	635.3	-67.1	5.6	-17.2	-1.8	-0.23	0.0	0.0	0.0	6.7	22.1
Motor & Pump P 211/212	CNEL	93.7		650.7	-67.3	5.6	-23.7	-3.1	-0.59	0.0	0.0	0.0	6.7	11.3
Motor & Pump P 215/214	CNEL	94.6		650.1	-67.3	5.6	-24.8	-4.1	-0.24	0.0	0.0	0.0	6.7	10.4
Motor & Pump P 216	CNEL	98.3		657.1	-67.3	5.6	-23.5	-3.1	-0.74	0.0	0.0	0.0	6.7	15.9
Motor & Pump P 217/218	CNEL	93.7		650.6	-67.3	5.7	-23.8	-3.2	-0.59	0.0	0.0	0.0	6.7	11.2
Motor & Pump P 300	CNEL	97.1	2	647.0	-67.2	5.6	-16.4	-1.8	-0.23	0.0	0.0	0.0	6.7	23.7
Motor & Pump P 301	CNEL	102.1	2	647.2	-67.2	5.6	-16.4	-1.8	-0.23	0.0	0.0	0.0	6.7	28.7
Motor & Pump P 302	CNEL	97.1	2	646.9	-67.2	5.6	-16.4	-1.8	-0.23	0.0	0.0	0.0	6.7	23.7
Motor & Pump P 303	CNEL	97.1	2	646.9	-67.2	5.6	-21.0	-1.9	-0.22	0.0	0.0	0.0	6.7	19.0
Motor & Pump P 305	CNEL	97.5	2	646.8	-67.2	5.6	-16.2	-1.8		0.0	0.0	0.0	6.7	24.5
Motor & Pump P 306	CNEL	112.6	4	646.2	-67.2	5.5	-21.9	-2.0		0.0	0.2	0.0	6.7	33.9
Motor & Pump P 307	CNEL	102.1	2	647.6	-67.2	5.6	-18.9	-1.8	-0.23	0.0	0.0	0.0	6.7	26.2
Motor & Pump P 309	CNEL	97.5	2	646.7	-67.2	5.6	-23.0	-2.1		0.0	0.0	0.0	6.7	17.4
Motor & Pump P 312	CNEL	101.5	2	649.7	-67.2	5.7	-11.6	-2.0	-0.53	0.0	0.0	0.0	6.7	32.5
Motor & Pump P 313	CNEL	101.5	2	649.9	-67.2	5.7	-17.8	-1.8	-0.53	0.0	0.0	0.0	6.7	26.4
Motor & Pump P 315	CNEL	102.9	2	650.9	-67.3	5.6	-11.5	-2.0	-0.53	0.0	0.0	0.0	6.7	33.9
Motor & Pump P 316	CNEL	102.9	2	651.2	-67.3	5.6	-11.5	-2.0	-0.53	0.0	0.0	0.0	6.7	33.9
Motor & Pump P 317	CNEL	102.9	2	651.4	-67.3	5.6	-11.5	-2.0	-0.53	0.0	0.0	0.0	6.7	33.9
Motor & Pump P 318	CNEL	100.2	1	650.2	-67.3	5.7	-11.7	-2.0	-0.53	0.0	0.0	0.0	6.7	31.1
Motor & Pump P 319	CNEL	100.2	1	650.0	-67.3	5.7	-11.7	-2.0	-0.53	0.0	0.0	0.0	6.7	31.1
Motor & Pump P 327	CNEL	111.2	3	646.5	-67.2	5.6	-24.2	-3.4		0.0	0.8	0.0	6.7	29.5
Motor & Pump P 328	CNEL	109.9	5	646.5	-67.2	5.5	-22.7	-2.0		0.0	0.0	0.0	6.7	30.2
Motor & Pump P 329	CNEL	110.2	5	646.3	-67.2	5.5	-23.1	-2.1		0.0	0.0	0.0	6.7	29.9
Motor & Pump P 451	CNEL	93.7		622.1	-66.9	5.6	-22.9	-2.8		0.0	0.0	0.0	6.7	13.3
Motor & Pump P 453	CNEL	93.7		621.5	-66.9	5.6	-13.1	-2.5		0.0	0.0	0.0	6.7	23.4
Motor & Pump P 454	CNEL	93.7		623.5	-66.9	5.6	-22.9	-2.8		0.0	0.0	0.0	6.7	13.3
Motor & Pump P 457	CNEL	93.7		621.9	-66.9	5.6	-13.1	-2.5		0.0	0.0	0.0	6.7	23.4
Motor & Pump P 458	CNEL	93.7		620.9	-66.9	5.6	-23.0	-2.8		0.0	0.0	0.0	6.7	13.3
Motor & Pump P 459	CNEL	93.7		623.3	-66.9	5.6	-22.9	-2.8		0.0	0.0	0.0	6.7	13.3
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		603.2	-66.6	5.6	-24.7	-3.8	-0.25	0.0	0.0	0.0	6.7	13.1
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		603.0	-66.6	5.6	-24.7	-3.8	-0.24	0.0	0.0	0.0	6.7	13.1
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		590.2	-66.4	5.6	-24.5	-3.6	-0.21	0.0	0.0	0.0	6.7	13.0
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		590.1	-66.4	5.6	-23.2	-2.7	-0.18	0.0	0.0	0.0	6.7	15.1
Motor & Pump P 1601 A	CNEL	96.3	2	575.1	-66.2	5.5	-21.9	-2.3		0.0	0.0	0.0	6.7	18.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1601 B	CNEL	96.3	2	573.6	-66.2	5.5	-21.9	-2.3		0.0	0.0	0.0	6.7	18.0
Motor & Pump P 1602 A	CNEL	96.3	2	572.5	-66.1	5.5	-21.9	-2.3		0.0	0.0	0.0	6.7	18.1
Motor & Pump P 1602 B	CNEL	96.5	2	571.0	-66.1	5.5	-21.9	-2.3		0.0	0.0	0.0	6.7	18.3
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	593.9	-66.5	5.6	-21.0	-2.3	-0.17	0.0	0.0	0.0	6.7	18.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	593.3	-66.5	5.6	-19.7	-2.2	-0.17	0.0	0.0	0.0	6.7	20.3
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	593.0	-66.5	5.6	-13.9	-2.4	-0.17	0.0	0.0	0.0	6.7	26.0
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	602.2	-66.6	5.6	-19.3	-2.2	-0.30	0.0	0.0	0.0	6.7	20.5
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	602.0	-66.6	5.6	-16.4	-2.3	-0.30	0.0	0.0	0.0	6.7	23.4
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	585.6	-66.3	5.6	-14.1	-2.3	-0.02	0.0	0.0	0.0	6.7	25.8
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	587.8	-66.4	5.6	-14.0	-2.3	-0.07	0.0	0.0	0.0	6.7	25.8
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	591.9	-66.4	5.6	-13.9	-2.4	-0.16	0.0	0.0	0.0	6.7	25.7
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	590.1	-66.4	5.6	-14.0	-2.3	-0.12	0.0	0.0	0.0	6.7	25.7
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	609.2	-66.7	5.4	-21.4	-1.8		0.0	0.1	0.0	6.7	26.5
P-2 A/B	CNEL	98.5		381.7	-62.6	5.6	-21.9	-1.2		0.0	0.6	0.0	6.7	25.5
P-50 A/B	CNEL	98.1		394.1	-62.9	5.6	-20.3	-1.2	-0.11	0.0	0.1	0.0	6.7	25.9
P-51 A/B	CNEL	98.1		396.8	-63.0	5.6	-23.3	-1.4	-0.12	0.0	0.1	0.0	6.7	22.7
P-060 A/B	CNEL	98.1		387.8	-62.8	5.6	-21.3	-1.2	-0.11	0.0	0.1	0.0	6.7	25.0
P-63	CNEL	98.5		410.1	-63.3	5.6	-23.3	-1.5		0.0	0.1	0.0	6.7	22.9
P-70 A/B	CNEL	98.1		390.6	-62.8	5.6	-21.0	-1.2	-0.11	0.0	0.1	0.0	6.7	25.4
P-73 A/B	CNEL	98.5		384.8	-62.7	5.6	-21.6	-1.2		0.0	0.1	0.0	6.7	25.3
P-251 A/B	CNEL	98.2		497.4	-64.9	5.7	-11.9	-1.4	-0.83	0.0	0.4	0.0	6.7	31.8
P-252 A/B	CNEL	98.2		489.3	-64.8	5.7	-12.6	-1.4	-0.47	0.0	0.0	0.0	6.7	31.2
P-253	CNEL	98.2		482.2	-64.7	5.6	-12.8	-1.4	-0.46	0.0	0.5	0.0	6.7	31.6
P-254 A/B	CNEL	98.2		486.9	-64.7	5.7	-7.7	-1.7	-0.52	0.0	0.0	0.0	6.7	35.8
P-255 A/B	CNEL	98.2		490.1	-64.8	5.7	-7.6	-1.8	-0.61	0.0	0.0	0.0	6.7	35.8
P-255 A/B	CNEL	98.2		504.0	-65.0	5.7	-12.0	-1.5	-1.00	0.0	0.5	0.0	6.7	31.5
P-256 A/B	CNEL	98.2		494.2	-64.9	5.7	-11.6	-1.4	-0.74	0.0	0.4	0.0	6.7	32.2
P-259 A/B	CNEL	98.2		500.6	-65.0	5.7	-12.0	-1.5	-0.92	0.0	0.5	0.0	6.7	31.6
P-260	CNEL	99.1		507.4	-65.1	5.7	-12.8	-1.5	-0.48	0.0	0.0	0.0	6.7	31.5
P-261 A/B	CNEL	98.0		529.8	-65.5	5.7	-11.3	-1.6	-0.51	0.0	0.0	0.0	6.7	31.5
P-262 A/B	CNEL	99.1		515.4	-65.2	5.7	-12.6	-1.6	-0.49	0.0	0.0	0.0	6.7	31.6
P-263 A/B	CNEL	99.4		511.5	-65.2	5.7	-12.7	-1.6	-0.47	0.0	0.0	0.0	6.7	31.8
P-270 A/B	CNEL	98.5		447.5	-64.0	5.6	-15.5	-1.3	-0.42	0.0	0.1	0.0	6.7	29.6
P-271 A/B	CNEL	98.2		477.9	-64.6	5.6	-18.3	-1.4	-0.28	0.0	0.1	0.0	6.7	26.1
P-272 A/B	CNEL	98.2		482.3	-64.7	5.6	-17.4	-1.4	-0.40	0.0	0.1	0.0	6.7	26.7
P-273 A/B	CNEL	98.5		450.7	-64.1	5.6	-15.2	-1.3	-0.43	0.0	0.1	0.0	6.7	29.8
P-275 A/B/C	CNEL	98.2		471.6	-64.5	5.6	-12.7	-1.3	-0.23	0.0	0.3	0.0	6.7	32.1
P-305	CNEL	99.3		467.8	-64.4	5.6	-17.4	-1.4	-1.75	0.0	0.1	0.0	6.7	26.8
P-306	CNEL	100.8		460.0	-64.2	5.6	-18.6	-1.3	-1.49	0.0	0.1	0.0	6.7	27.5
P-309	CNEL	99.3		465.8	-64.4	5.6	-17.7	-1.4	-1.69	0.0	0.2	0.0	6.7	26.7
P-328	CNEL	100.8		455.5	-64.2	5.6	-20.5	-1.4	-0.81	0.0	0.1	0.0	6.7	26.3
P-329	CNEL	100.8		457.6	-64.2	5.6	-18.9	-1.3	-1.41	0.0	0.0	0.0	6.7	27.2
P-353	CNEL	98.5		457.7	-64.2	5.4	-17.5	-1.3	-1.29	0.0	0.0	0.0	6.7	26.3
P-358 A/B	CNEL	99.4		427.4	-63.6	5.6	-19.1	-1.3	-0.81	0.0	0.1	0.0	6.7	27.0
P-359 A/B	CNEL	99.4		430.0	-63.7	5.6	-18.7	-1.3	-0.83	0.0	1.5	0.0	6.7	28.7
P-360 A/B	CNEL	99.4		435.3	-63.8	5.6	-21.8	-1.4	-1.12	0.0	0.1	0.0	6.7	23.8
P-361A	CNEL	98.1		376.0	-62.5	5.3	-23.9	-1.5	-0.14	0.0	0.3	0.0	6.7	22.4
P-371 A/B	CNEL	98.0		563.6	-66.0	5.5	-16.4	-1.6		0.0	0.0	0.0	6.7	26.2
P-373 A/B	CNEL	98.0		544.5	-65.7	5.5	-15.5	-1.6		0.0	0.0	0.0	6.7	27.4
P-374 A/B	CNEL	98.0		548.3	-65.8	5.5	-15.3	-1.6		0.0	0.0	0.0	6.7	27.5
P-375 A/B	CNEL	98.0		556.8	-65.9	5.5	-16.7	-1.6		0.0	0.0	0.0	6.7	26.0
P-376	CNEL	98.0		550.7	-65.8	5.5	-15.2	-1.6		0.0	0.0	0.0	6.7	27.6
P-376 A/B	CNEL	98.0		540.5	-65.6	5.5	-15.7	-1.6		0.0	0.0	0.0	6.7	27.3
P-377	CNEL	98.0		552.9	-65.8	5.5	-15.1	-1.6		0.0	0.0	0.0	6.7	27.6
P-1101 A	CNEL	98.9		375.0	-62.5	5.3	-24.1	-1.6		0.0	0.3	0.0	6.7	23.0
P-1103	CNEL	98.9		376.0	-62.5	5.3	-24.1	-1.6		0.0	0.2	0.0	6.7	22.9
P-1105 A/B/C	CNEL	98.9		370.7	-62.4	5.3	-24.0	-1.5		0.0	0.2	0.0	6.7	23.1
P-1800	CNEL	98.9		383.5	-62.7	5.5	-24.7	-1.7		0.0	2.5	0.0	6.7	24.6
P-1801	CNEL	98.9		350.4	-61.9	5.5	-24.0	-1.4		0.0	0.9	0.0	6.7	24.7
P-1802	CNEL	98.9		348.4	-61.8	5.5	-24.3	-1.5		0.0	0.0	0.0	6.7	23.4
P-1803	CNEL	99.1		360.5	-62.1	5.6	-24.8	-1.7		0.0	0.4	0.0	6.7	23.2
P-1804	CNEL	99.1		358.9	-62.1	5.6	-24.3	-1.5		0.0	0.2	0.0	6.7	23.6
P-1805	CNEL	99.1		356.4	-62.0	5.5	-24.4	-1.5		0.0	0.2	0.0	6.7	23.6
P-1806	CNEL	99.1		380.8	-62.6	5.6	-24.4	-1.6		0.0	0.3	0.0	6.7	23.1
P-1809 A	CNEL	98.9		371.9	-62.4	5.5	-24.9	-1.7		0.0	2.3	0.0	6.7	24.4
P-1810 A/B/C	CNEL	99.0		347.3	-61.8	5.5	-24.7	-1.6		0.0	0.2	0.0	6.7	23.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
P-1811 A/B	CNEL	99.1		375.0	-62.5	5.6	-22.0	-1.2		0.0	0.2	0.0	6.7	25.8	
P-1811 A/B	CNEL	99.1		353.3	-62.0	5.5	-24.5	-1.5		0.0	0.2	0.0	6.7	23.5	
P-1847 A/B	CNEL	99.4		335.0	-61.5	5.5	-22.0	-1.1		0.0	0.0	0.0	6.7	27.0	
P-1849 A/B	CNEL	99.4		328.9	-61.3	5.5	-22.6	-1.1		0.0	0.0	0.0	6.7	26.5	
P-1853	CNEL	99.1		498.1	-64.9	5.7	-18.0	-1.4	-1.17	0.0	0.1	0.0	6.7	26.0	
Piping Furnace Tanks	CNEL	87.1	72	481.5	-64.6	4.4	-21.9	-6.1		0.0	0.0	0.0	6.7	5.6	
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	499.0	-65.0	4.7	-19.4	-5.7		0.0	0.1	0.0	6.7	19.9	
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	521.6	-65.3	5.1	-24.5	-3.9		0.0	0.0	0.0	6.7	32.6	
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	519.1	-65.3	5.1	-24.5	-8.6		0.0	0.1	0.0	6.7	28.6	
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	265.0	-59.5	3.6	-5.0	-1.2		0.0	0.4	0.0	6.7	55.5	
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	273.3	-59.7	3.6	-5.1	-1.3		0.0	0.4	0.0	6.7	55.7	
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	302.5	-60.6	3.8	-17.3	-1.0		0.0	0.1	0.0	6.7	35.7	
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	295.4	-60.4	3.7	-22.6	-1.1		0.0	1.4	0.0	6.7	38.8	
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	310.9	-60.8	3.8	-23.6	-1.3		0.0	0.4	0.0	6.7	29.2	
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	296.8	-60.4	3.6	-22.7	-1.2		0.0	0.5	0.0	6.7	30.2	
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	310.6	-60.8	3.8	-23.1	-1.2		0.0	0.3	0.0	6.7	32.3	
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	311.0	-60.8	3.8	-23.4	-1.3		0.0	0.6	0.0	6.7	31.5	
Pre-Treat Train-Roof 01	CNEL	113.1	2037	285.6	-60.1	2.9	-5.1	-1.4		0.0	0.2	0.0	6.7	56.3	
PSA Pipe 3" Lagging	CNEL	80.6	11	504.2	-65.0	3.7	-22.3	-3.3		0.0	0.0	0.0	6.7	0.4	
PSA Skid Additional Piping w NC	CNEL	116.6	57	524.7	-65.4	5.1	-24.0	-3.8		0.0	0.0	0.0	6.7	35.1	
Reformer-Burner Reformer East	CNEL	97.3	269	466.0	-64.4	3.8	-13.5	-1.6		0.0	0.9	0.0	6.7	32.2	
Reformer-Burner Reformer North	CNEL	95.9	192	476.8	-64.6	3.7	-23.5	-2.3		0.0	0.1	0.0	6.7	16.0	
Reformer-Burner Reformer South	CNEL	95.8	191	458.0	-64.2	3.6	-18.2	-1.7		0.0	0.7	0.0	6.7	25.4	
Reformer-Burner Reformer West	CNEL	97.3	268	468.7	-64.4	3.6	-24.0	-2.4		0.0	0.0	0.0	6.7	19.8	
RFG A from battery to process	CNEL	99.4	87	492.9	-64.8	4.7	-19.3	-5.6		0.0	0.1	0.0	6.7	21.1	
RFG A from battery to process w NC	CNEL	115.2	42	518.6	-65.3	5.1	-24.9	-9.7		0.0	0.1	0.0	6.7	27.2	
Stack Noise	CNEL	108.4		430.5	-63.7	2.9	-3.2	-1.6		-5.7	0.2	0.0	6.7	44.1	
Steam Turbine-Facade 01	CNEL	99.6	29	532.1	-65.5	5.4	-24.9	-6.7		0.0	0.0	0.0	6.7	14.6	
Steam Turbine-Facade 02	CNEL	96.2	13	527.9	-65.4	5.4	-24.8	-6.5		0.0	0.0	0.0	6.7	11.6	
Steam Turbine-Facade 03	CNEL	99.6	29	531.4	-65.5	5.4	-24.8	-6.4		0.0	0.0	0.0	6.7	14.9	
Steam Turbine-Facade 04	CNEL	96.2	13	535.7	-65.6	5.4	-24.9	-6.7		0.0	0.0	0.0	6.7	11.2	
Steam Turbine-Roof 01	CNEL	99.7	30	531.8	-65.5	5.1	-24.7	-6.2		0.0	0.0	0.0	6.7	15.0	
Tank Farm Pump 1	CNEL	99.0	3	338.7	-61.6	5.3	-20.8	-1.4		0.0	0.0	0.0	6.7	27.2	
Tank Farm Pump 2	CNEL	99.0	3	318.5	-61.1	5.3	-23.8	-1.8		0.0	0.0	0.0	6.7	24.3	
Tank Farm Pump 3	CNEL	99.0	3	312.9	-60.9	5.3	-24.1	-1.9		0.0	0.0	0.0	6.7	24.0	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	761.9	-68.6	5.1	-10.6	-3.3	-0.07	0.0	0.1	-13.8	0.0	21.2	
XF-1502 Splitter Area 1	CNEL	104.5		590.6	-66.4	4.2	-9.8	-2.2	-0.08	-3.2	0.0	0.0	6.7	33.7	
XF-1502 Splitter Area 2	CNEL	104.5		591.1	-66.4	4.2	-12.3	-2.0	-0.06	-3.0	0.0	0.0	6.7	31.6	
XF-1504 Splitter Area 1	CNEL	104.5		586.2	-66.4	4.2	-9.9	-2.2	-0.02	-3.2	0.0	0.0	6.7	33.7	
XF-1504 Splitter Area 2	CNEL	104.5		586.7	-66.4	4.2	-12.4	-2.0	-0.02	-3.0	0.0	0.0	6.7	31.6	
XF 251, 250, 271, 270	CNEL	101.1	128	475.3	-64.5	4.1	-5.8	-1.3	0.00	-2.4	0.0	0.0	6.7	37.8	
XF 260, 261A, 261 B	CNEL	99.9	97	522.7	-65.4	4.2	-7.1	-1.1	0.00	-2.2	0.0	0.0	6.7	35.1	
XF 304, XF 321	CNEL	110.5	56	653.3	-67.3	4.3	-13.5	-1.0	-0.05	-1.5	0.0	0.0	6.7	38.3	
XF 313, XF 314	CNEL	113.0	18	651.6	-67.3	4.6	-16.8	-1.4		-2.4	0.0	0.0	6.7	36.5	
XF 335-1, XF 335-2	CNEL	113.4	54	652.3	-67.3	4.4	-14.6	-1.2	-0.05	-1.6	0.0	0.0	6.7	39.8	
XF 353A/B	CNEL	95.4	35	426.4	-63.6	3.9	-9.3	-0.8	-0.01	-1.9	0.0	0.0	6.7	30.5	
XF 353A/B	CNEL	95.4	35	424.6	-63.6	3.9	-9.8	-0.7	0.00	-1.9	0.0	0.0	6.7	30.1	
XF 354A/B	CNEL	95.4	35	463.5	-64.3	4.0	-7.2	-0.9	0.00	-2.2	0.0	0.0	6.7	31.5	
XF 503	CNEL	113.0	21	641.1	-67.1	4.7	-18.7	-1.9	-0.40	-2.7	0.0	0.0	6.7	33.5	
XF - 1601	CNEL	96.6		573.3	-66.2	3.3	-7.0	-1.2		-1.6	0.0	0.0	6.7	30.6	
XF - 1602	CNEL	96.6		567.4	-66.1	3.3	-16.4	-0.8		-0.9	0.0	0.0	6.7	22.3	
XF Module 1510	CNEL	108.3		597.3	-66.5	4.4	-19.7	-2.1	-0.04	-2.6	0.0	0.0	6.7	28.4	
XF Module 1519	CNEL	109.0		596.6	-66.5	4.4	-10.1	-2.2	-0.23	-3.2	0.0	0.0	6.7	37.9	
xxxx xxxx xxxx xxxx	CNEL		606								1.2			68.9	
xxxx xxxx xxxx xxxx	CNEL		606								2.0			67.0	
xxxx xxxx xxxx xxxx	CNEL		917								7.3			37.7	
xxxx xxxx xxxx xxxx	CNEL		917								7.3			37.7	
xxxx xxxx xxxx xxxx	CNEL		608								14.4			33.3	
xxxx xxxx xxxx xxxx	CNEL		608								14.3			33.3	
xxxx xxxx xxxx xxxx	CNEL		228								9.1			37.7	
xxxx xxxx xxxx xxxx	CNEL		520								6.9			66.6	
xxxx xxxx xxxx xxxx	CNEL		1341								6.8			52.1	
xxxx xxxx xxxx xxxx	CNEL		450								16.2			36.2	
Receiver RLCTP Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 66.2 dB(A) Ld 7-19 dB(A) Leq,N 60.3 dB(A) Le 19-22 dB(A) CNEL 68.7 dB(A) Lmax day hr dB(A) Ld 7															
ID Fan Motor	CNEL	104.4	2	445.6	-64.0	4.9	-23.8	-2.8		0.0	2.1	0.0	6.7	27.5	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
18-1855 A/B	CNEL	98.8		442.2	-63.9	5.0	-17.7	-1.3		0.0	0.0	0.0	6.7	27.6
18-1856 A/B	CNEL	98.8		435.2	-63.8	5.0	-17.9	-1.3		0.0	0.0	0.0	6.7	27.5
18-1857 A/B	CNEL	98.8		449.0	-64.0	5.0	-17.5	-1.4		0.0	0.0	0.0	6.7	27.7
18-1858 A/B	CNEL	98.8		453.7	-64.1	4.9	-17.0	-1.4		0.0	0.0	0.0	6.7	27.8
18-PK 1802 Air Compressor Package	CNEL	103.1		428.1	-63.6	4.8	-14.4	-0.6		0.0	0.0	0.0	6.7	35.9
2022 Track Mobile moving rail cars 2 x 25 cars day time	CNEL	109.0	3558	572.3	-66.1	5.3	-14.5	-1.5	-0.11	0.0	0.0	-4.8	1.0	28.2
Air Compressor C 1	CNEL	110.0	5	658.3	-67.4	5.1	-19.9	-1.4		0.0	4.8	0.0	6.7	37.9
Air Compressor Pump	CNEL	100.3		517.5	-65.3	5.2	-21.7	-2.7		0.0	0.0	0.0	6.7	22.5
Blower F 401	CNEL	113.0		634.1	-67.0	4.6	-17.0	-0.8		0.0	0.0	0.0	6.7	39.4
Boiler Crude Unit-Heater Opening	CNEL	95.6	14	392.4	-62.9	4.6	-18.7	-0.8	-0.13	0.0	0.0	0.0	6.7	27.4
Boiler Feed Water Pump A	CNEL	97.1	3	435.7	-63.8	5.0	-18.4	-1.4		0.0	0.3	0.0	6.7	25.6
Boiler Feed Water Pump B	CNEL	97.1	3	435.4	-63.8	5.0	-17.2	-1.4		0.0	0.2	0.0	6.7	26.6
C370 A Motor	CNEL	103.6	3	517.3	-65.3	4.7	-15.4	-1.6		0.0	0.1	0.0	6.7	32.9
C370 B Motor	CNEL	108.6	3	506.7	-65.1	4.7	-20.2	-1.5		0.0	0.0	0.0	6.7	33.2
C370A	CNEL	103.8	5	517.3	-65.3	4.8	-15.2	-1.6		0.0	0.0	0.0	6.7	33.2
C370B	CNEL	103.8	5	506.7	-65.1	4.8	-15.4	-1.5		0.0	0.0	0.0	6.7	33.2
C-270 A	CNEL	106.3	6	405.8	-63.2	4.6	-19.1	-1.3	-1.00	0.0	0.0	0.0	6.7	33.0
C-270 B	CNEL	106.3	6	410.7	-63.3	4.6	-18.4	-1.3	-1.05	0.0	0.0	0.0	6.7	33.6
C-270 C	CNEL	106.3	6	415.4	-63.4	4.6	-17.6	-1.2	-1.03	0.0	0.1	0.0	6.7	34.5
C-301 Compressor	CNEL	106.8	3	386.2	-62.7	4.6	-18.7	-1.2	-0.73	0.0	0.0	0.0	6.7	34.7
C-301 Motor	CNEL	106.8	4	389.9	-62.8	4.6	-20.7	-2.0	-0.88	0.0	0.0	0.0	6.7	31.7
C-351 Compressor	CNEL	106.8	4	385.9	-62.7	4.6	-17.8	-1.2	-0.79	0.0	0.0	0.0	6.7	35.6
C-351 Motor	CNEL	106.8	5	386.8	-62.7	4.3	-20.5	-2.0	-0.94	0.0	0.0	0.0	6.7	31.7
Cars Pumping 6 times in during delivery	CNEL	134.7	361	588.2	-66.4	5.1	-12.2	-0.9	-0.18	0.0	0.0	-35.6	0.0	24.6
Compressor House C301, C302, C 124-Comp House East 1	CNEL	101.8	30	666.2	-67.5	4.7	-19.2	-1.4	-0.68	-0.5	0.0	0.0	6.7	27.0
Compressor House C301, C302, C 124-Comp House East 2	CNEL	100.5	32	662.7	-67.4	4.8	-15.1	-1.6	-0.72	0.0	0.0	0.0	6.7	27.2
Compressor House C301, C302, C 124-Comp House North	CNEL	103.5	141	674.5	-67.6	4.7	-22.1	-1.6	-0.71	-1.9	0.0	0.0	6.7	24.1
Compressor House C301, C302, C 124-Comp House South 1	CNEL	107.7	116	675.6	-67.6	4.7	-18.6	-1.4	-0.72	2.5	0.0	0.0	6.7	36.3
Compressor House C301, C302, C 124-Comp House South 2	CNEL	100.8	24	664.4	-67.4	4.7	-21.8	-1.7	-0.10	2.8	0.8	0.0	6.7	27.7
Compressor House C301, C302, C 124-Comp House West	CNEL	97.4	62	685.9	-67.7	4.8	-22.6	-2.1	-0.56	-7.8	0.0	0.0	6.7	11.1
Cooling Tower CT 510-CT 510 East Side	CNEL	94.9	34	593.7	-66.5	4.8	-21.1	-1.6		-0.3	0.1	0.0	6.7	19.9
Cooling Tower CT 510-CT 510 West Side	CNEL	94.9	34	606.1	-66.6	4.8	-22.0	-1.8		-7.8	0.0	0.0	6.7	11.0
Cooling Tower CT 511-CT 511 East Side	CNEL	97.6	65	569.0	-66.1	4.5	-12.9	-1.3		-0.2	0.0	0.0	6.7	31.3
Cooling Tower CT 511-CT 511 West Side	CNEL	97.7	66	586.9	-66.4	4.7	-22.4	-1.9		-7.8	3.1	0.0	6.7	16.7
Cooling Tower M 512	CNEL	95.7		599.3	-66.5	5.2	-14.7	-2.2		0.0	0.0	0.0	6.7	24.1
Cooling Tower M 513	CNEL	95.7		600.7	-66.6	5.2	-14.6	-2.2		0.0	0.0	0.0	6.7	24.1
Cooling Tower M 514	CNEL	95.7		597.8	-66.5	5.2	-14.7	-2.2		0.0	0.0	0.0	6.7	24.1
E 321 Fin Fan Hydrogen Plant - Low Noise	CNEL	95.8	38	446.7	-64.0	3.6	-13.0	-0.7		-1.5	0.0	0.0	6.7	26.8
FD Fan Assembly-FD Fan - East	CNEL	95.4	17	459.0	-64.2	4.8	-11.7	-0.1		0.0	0.0	0.0	6.7	30.8
FD Fan Assembly-FD Fan - North	CNEL	93.1	10	460.7	-64.3	4.8	-15.2	-0.1		0.0	0.0	0.0	6.7	25.0
FD Fan Assembly-FD Fan - Roof	CNEL	93.4	11	460.3	-64.3	4.4	-10.7	-0.1		0.0	0.0	0.0	6.7	29.4
FD Fan Assembly-FD Fan - South	CNEL	93.2	10	459.9	-64.2	4.7	-11.2	-0.1		0.0	0.1	0.0	6.7	29.1
FD Fan Assembly-FD Fan - West	CNEL	95.3	17	461.6	-64.3	4.8	-14.3	-0.1		0.0	0.0	0.0	6.7	28.0
FD Motor	CNEL	103.3	2	457.9	-64.2	4.9	-23.0	-2.9		0.0	2.6	0.0	6.7	27.4
Feed Compressor -B Motor	CNEL	103.8	5	474.5	-64.5	4.7	-21.3	-2.3		0.0	0.0	0.0	6.7	27.0
Feed Compressor-A Compressor	CNEL	104.0	5	488.8	-64.8	4.8	-17.4	-1.5		0.0	0.1	0.0	6.7	31.9
Feed Compressor-A Motor	CNEL	103.8	6	488.6	-64.8	4.7	-15.8	-2.2		0.0	0.0	0.0	6.7	32.4
Feed Compressor-B Compressor	CNEL	104.0	7	474.7	-64.5	4.8	-17.7	-1.5		0.0	0.0	0.0	6.7	31.8
H2S Compressor 18-C-271	CNEL	105.3	6	651.3	-67.3	5.1	-20.6	-2.1	-0.20	0.0	0.0	0.0	6.7	26.9
Heater # 5-Heater	CNEL	91.1	13	392.8	-62.9	4.7	-22.7	-1.2	-0.32	0.0	2.0	0.0	6.7	20.4
Heater # 5-Heater	CNEL	91.1	13	397.6	-63.0	4.7	-23.1	-1.2	-0.36	0.0	0.6	0.0	6.7	18.4
Heater # 5-Heater	CNEL	91.1	13	388.1	-62.8	4.7	-22.7	-1.1	-0.32	0.0	1.5	0.0	6.7	20.0
Hydro Heater H-402	CNEL	98.1		626.2	-66.9	4.8	-21.1	-1.4		0.0	0.0	0.0	6.7	20.2
ID Fan-ID Fan - East 1 (128306)	CNEL	87.0	3	444.2	-63.9	5.0	-21.9	-0.1		0.0	0.3	0.0	6.7	13.0
ID Fan-ID Fan - East (128302)	CNEL	87.3	3	443.7	-63.9	5.0	-14.2	-0.1		0.0	0.0	0.0	6.7	20.8
ID Fan-ID Fan - North	CNEL	92.2	8	445.7	-64.0	5.0	-20.9	-0.1		0.0	0.2	0.0	6.7	19.2
ID Fan-ID Fan - North 2	CNEL	91.4	7	443.0	-63.9	5.0	-22.1	-0.1		0.0	0.3	0.0	6.7	17.3
ID Fan-ID Fan - South	CNEL	92.3	9	445.1	-64.0	5.0	-11.9	-0.1		0.0	0.0	0.0	6.7	28.1
ID Fan-ID Fan - South 2	CNEL	91.4	7	442.7	-63.9	5.0	-15.9	-0.1		0.0	0.0	0.0	6.7	23.1
ID Fan-ID Fan Roof 01 (128293)	CNEL	94.0	13	444.7	-64.0	4.7	-15.2	-0.1		0.0	0.3	0.0	6.7	26.4
Motor & Pump P 56A/B	CNEL	93.7		635.9	-67.1	5.2	-20.1	-2.5	-0.14	0.0	0.0	0.0	6.7	15.8
Motor & Pump P 120/121	CNEL	96.2	2	655.4	-67.3	5.1	-20.7	-2.0	-0.54	0.0	0.0	0.0	6.7	17.4
Motor & Pump P 211/212	CNEL	93.7		652.7	-67.3	5.3	-19.1	-2.5	-0.57	0.0	0.0	0.0	6.7	16.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 215/214	CNEL	94.6		653.5	-67.3	5.3	-14.0	-2.7	-0.58	0.0	0.0	0.0	6.7	22.0
Motor & Pump P 216	CNEL	98.3		659.4	-67.4	5.3	-18.7	-2.5	-0.72	0.0	0.0	0.0	6.7	20.9
Motor & Pump P 217/218	CNEL	93.7		653.1	-67.3	5.4	-14.2	-2.6	-0.58	0.0	0.0	0.0	6.7	21.0
Motor & Pump P 300	CNEL	97.1	2	667.5	-67.5	5.2	-20.5	-2.0	-0.34	0.0	0.0	0.0	6.7	18.6
Motor & Pump P 301	CNEL	102.1	2	667.2	-67.5	5.2	-19.8	-2.0	-0.33	0.0	0.0	0.0	6.7	24.3
Motor & Pump P 302	CNEL	97.1	2	667.8	-67.5	5.2	-20.5	-2.0	-0.34	0.0	0.0	0.0	6.7	18.5
Motor & Pump P 303	CNEL	97.1	2	668.2	-67.5	5.1	-20.6	-2.0	-0.32	0.0	0.0	0.0	6.7	18.6
Motor & Pump P 305	CNEL	97.5	2	668.5	-67.5	5.1	-20.6	-2.0	-0.35	0.0	0.0	0.0	6.7	18.9
Motor & Pump P 306	CNEL	112.6	4	670.2	-67.5	5.0	-21.3	-2.1		0.0	0.2	0.0	6.7	33.7
Motor & Pump P 307	CNEL	102.1	2	666.4	-67.5	5.2	-23.4	-2.5	-0.52	0.0	0.0	0.0	6.7	20.1
Motor & Pump P 309	CNEL	97.5	2	668.8	-67.5	5.2	-19.9	-2.0	-0.53	0.0	0.0	0.0	6.7	19.5
Motor & Pump P 312	CNEL	101.5	2	662.9	-67.4	5.2	-17.4	-1.9	-0.53	0.0	0.0	0.0	6.7	26.1
Motor & Pump P 313	CNEL	101.5	2	662.7	-67.4	5.2	-17.4	-1.9	-0.53	0.0	0.0	0.0	6.7	26.1
Motor & Pump P 315	CNEL	102.9	2	662.1	-67.4	5.2	-18.5	-1.9	-0.25	0.0	0.0	0.0	6.7	26.6
Motor & Pump P 316	CNEL	102.9	2	661.8	-67.4	5.2	-18.3	-1.9	-0.23	0.0	0.0	0.0	6.7	26.9
Motor & Pump P 317	CNEL	102.9	2	661.5	-67.4	5.2	-19.9	-2.0	-0.23	0.0	0.0	0.0	6.7	25.2
Motor & Pump P 318	CNEL	100.2	1	661.8	-67.4	5.2	-23.4	-2.5		0.0	0.0	0.0	6.7	18.7
Motor & Pump P 319	CNEL	100.2	1	662.0	-67.4	5.2	-23.4	-2.6		0.0	0.0	0.0	6.7	18.7
Motor & Pump P 327	CNEL	111.2	3	672.5	-67.5	5.3	-23.4	-3.3		0.0	0.2	0.0	6.7	29.2
Motor & Pump P 328	CNEL	109.9	5	669.0	-67.5	5.1	-20.8	-2.1	-0.49	0.0	0.0	0.0	6.7	30.9
Motor & Pump P 329	CNEL	110.2	5	669.5	-67.5	5.2	-22.0	-2.2	-0.07	0.0	0.0	0.0	6.7	30.2
Motor & Pump P 451	CNEL	93.7		624.4	-66.9	5.2	-14.5	-2.5		0.0	0.0	0.0	6.7	21.6
Motor & Pump P 453	CNEL	93.7		620.7	-66.8	5.2	-22.8	-2.8		0.0	0.0	0.0	6.7	13.1
Motor & Pump P 454	CNEL	93.7		625.9	-66.9	5.2	-14.5	-2.5		0.0	0.0	0.0	6.7	21.6
Motor & Pump P 457	CNEL	93.7		620.6	-66.8	5.2	-23.0	-2.9		0.0	0.0	0.0	6.7	12.8
Motor & Pump P 458	CNEL	93.7		623.2	-66.9	5.2	-14.5	-2.5		0.0	0.0	0.0	6.7	21.6
Motor & Pump P 459	CNEL	93.7		626.0	-66.9	5.2	-14.5	-2.5		0.0	0.0	0.0	6.7	21.6
Motor & Pump P 1505 FRESH FEED PUMPS	CNEL	96.2		613.3	-66.7	5.3	-23.9	-3.7		0.0	0.0	0.0	6.7	13.8
Motor & Pump P 1506 FRESH FEED PUMPS	CNEL	96.2		613.5	-66.7	5.3	-24.0	-3.7		0.0	0.0	0.0	6.7	13.7
Motor & Pump P 1509 Chloride Injection P	CNEL	95.4		609.9	-66.7	5.3	-22.4	-2.9	-0.18	0.0	0.3	0.0	6.7	15.5
Motor & Pump P 1510 Chloride Injection P	CNEL	95.4		610.1	-66.7	5.3	-22.2	-3.0	-0.21	0.0	0.3	0.0	6.7	15.6
Motor & Pump P 1601 A	CNEL	96.3	2	585.3	-66.3	5.1	-22.0	-2.5		0.0	0.0	0.0	6.7	17.3
Motor & Pump P 1601 B	CNEL	96.3	2	583.8	-66.3	5.1	-22.1	-2.6		0.0	0.0	0.0	6.7	17.1
Motor & Pump P 1602 A	CNEL	96.3	2	582.6	-66.3	5.1	-22.2	-2.6		0.0	0.0	0.0	6.7	17.1
Motor & Pump P 1602 B	CNEL	96.5	2	581.1	-66.3	5.1	-22.3	-2.6		0.0	0.0	0.0	6.7	17.1
Motor & Pump P - 1502 Splitter Reflux Pu	CNEL	96.6	2	604.1	-66.6	5.3	-19.6	-2.3	-0.17	0.0	0.0	0.0	6.7	19.9
Motor & Pump P - 1503 Splitter Bottoms P	CNEL	96.6	2	604.8	-66.6	5.3	-19.8	-2.4	-0.17	0.0	0.0	0.0	6.7	19.5
Motor & Pump P - 1504 Splitter Bottoms P	CNEL	96.6	2	605.2	-66.6	5.3	-22.2	-3.2	-0.24	0.0	0.0	0.0	6.7	16.3
Motor & Pump P - 1507 Reactor Pump	CNEL	96.7	2	613.1	-66.7	5.3	-19.2	-2.4	-0.29	0.0	0.0	0.0	6.7	20.1
Motor & Pump P - 1508 Reactor Pump	CNEL	96.7	2	613.4	-66.7	5.3	-20.6	-2.4	-0.30	0.0	0.0	0.0	6.7	18.5
Motor & Pump P - 1511 Stabilizer Reflux	CNEL	96.3	2	599.2	-66.5	5.3	-22.6	-3.0	-0.02	0.0	0.0	0.0	6.7	16.1
Motor & Pump P - 1512 Stabilizer Reflux	CNEL	96.3	2	601.5	-66.6	5.3	-22.5	-3.0	-0.07	0.0	0.0	0.0	6.7	16.1
Motor & Pump P - 1513 Caustic Circulatin	CNEL	96.3	2	605.5	-66.6	5.3	-22.8	-3.2	-0.17	0.0	0.0	0.0	6.7	15.4
Motor & Pump P - 1514 Caustic Circulatin	CNEL	96.3	2	603.7	-66.6	5.3	-22.9	-3.2	-0.13	0.0	0.0	0.0	6.7	15.4
Nitrogen Skid w Compressor 18-PK 1806	CNEL	104.2	5	633.2	-67.0	5.1	-13.2	-2.0		0.0	0.1	0.0	6.7	33.8
P-2 A/B	CNEL	98.5		301.0	-60.6	5.0	-24.4	-1.4		0.0	0.0	0.0	6.7	23.9
P-50 A/B	CNEL	98.1		329.8	-61.4	5.1	-24.4	-1.5	-0.09	0.0	0.0	0.0	6.7	22.5
P-51 A/B	CNEL	98.1		331.0	-61.4	5.1	-24.1	-1.4	-0.09	0.0	0.0	0.0	6.7	22.8
P-060 A/B	CNEL	98.1		327.6	-61.3	5.1	-23.2	-1.2	-0.09	0.0	0.0	0.0	6.7	24.1
P-63	CNEL	98.5		333.2	-61.4	5.1	-23.4	-1.3		0.0	0.0	0.0	6.7	24.1
P-70 A/B	CNEL	98.1		328.6	-61.3	5.1	-24.4	-1.5	-0.10	0.0	0.0	0.0	6.7	22.6
P-73 A/B	CNEL	98.5		305.2	-60.7	5.1	-24.3	-1.4		0.0	0.0	0.0	6.7	23.8
P-251 A/B	CNEL	98.2		460.3	-64.3	5.2	-18.7	-1.4	-1.59	0.0	0.0	0.0	6.7	24.1
P-252 A/B	CNEL	98.2		455.4	-64.2	5.2	-17.9	-1.4	-0.65	0.0	0.0	0.0	6.7	26.0
P-253	CNEL	98.2		447.5	-64.0	5.2	-18.3	-1.4	-0.47	0.0	0.0	0.0	6.7	25.9
P-254 A/B	CNEL	98.2		448.7	-64.0	5.2	-19.0	-1.4	-1.49	0.0	0.0	0.0	6.7	24.2
P-255 A/B	CNEL	98.2		452.2	-64.1	5.2	-18.1	-1.4	-1.52	0.0	0.0	0.0	6.7	24.9
P-255 A/B	CNEL	98.2		467.7	-64.4	5.2	-18.4	-1.4	-1.62	0.0	0.0	0.0	6.7	24.3
P-256 A/B	CNEL	98.2		456.7	-64.2	5.2	-18.9	-1.4	-1.55	0.0	0.0	0.0	6.7	24.1
P-259 A/B	CNEL	98.2		463.9	-64.3	5.2	-18.5	-1.4	-1.60	0.0	0.0	0.0	6.7	24.2
P-260	CNEL	99.1		475.4	-64.5	5.2	-17.6	-1.4	-1.10	0.0	0.0	0.0	6.7	26.3
P-261 A/B	CNEL	98.0		499.8	-65.0	5.2	-15.9	-1.5	-1.65	0.0	0.0	0.0	6.7	25.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-262 A/B	CNEL	99.1		484.1	-64.7	5.2	-17.3	-1.5	-1.30	0.0	0.0	0.0	6.7	26.2
P-263 A/B	CNEL	99.4		479.9	-64.6	5.2	-17.5	-1.5	-1.21	0.0	0.0	0.0	6.7	26.6
P-270 A/B	CNEL	98.5		405.1	-63.1	5.2	-21.1	-1.4	-1.30	0.0	0.0	0.0	6.7	23.4
P-271 A/B	CNEL	98.2		438.6	-63.8	5.2	-18.5	-1.3	-1.42	0.0	0.0	0.0	6.7	25.0
P-272 A/B	CNEL	98.2		443.5	-63.9	5.2	-19.1	-1.4	-1.46	0.0	0.0	0.0	6.7	24.2
P-273 A/B	CNEL	98.5		408.7	-63.2	5.2	-20.8	-1.3	-1.38	0.0	0.0	0.0	6.7	23.6
P-275 A/B/C	CNEL	98.2		435.9	-63.8	5.2	-18.7	-1.3	-0.21	0.0	0.0	0.0	6.7	26.0
P-305	CNEL	99.3		403.8	-63.1	5.2	-20.5	-1.3	-1.45	0.0	2.0	0.0	6.7	26.8
P-306	CNEL	100.8		394.3	-62.9	5.1	-20.7	-1.3	-1.22	0.0	0.0	0.0	6.7	26.5
P-309	CNEL	99.3		401.4	-63.1	5.2	-20.6	-1.3	-1.39	0.0	2.0	0.0	6.7	26.8
P-328	CNEL	100.8		388.8	-62.8	5.1	-21.6	-1.3	-1.09	0.0	0.0	0.0	6.7	25.8
P-329	CNEL	100.8		391.4	-62.8	5.1	-20.8	-1.3	-1.15	0.0	0.0	0.0	6.7	26.5
P-353	CNEL	98.5		397.9	-63.0	4.9	-21.7	-1.3	-0.83	0.0	0.0	0.0	6.7	23.3
P-358 A/B	CNEL	99.4		372.9	-62.4	5.1	-21.8	-1.4	-0.92	0.0	0.0	0.0	6.7	24.7
P-359 A/B	CNEL	99.4		373.8	-62.4	5.1	-22.1	-1.3	-0.91	0.0	0.0	0.0	6.7	24.5
P-360 A/B	CNEL	99.4		375.8	-62.5	5.1	-22.8	-1.5	-0.92	0.0	0.0	0.0	6.7	23.6
P-361A	CNEL	98.1		324.4	-61.2	4.8	-22.0	-1.2	-0.10	0.0	0.0	0.0	6.7	25.1
P-371 A/B	CNEL	98.0		561.1	-66.0	5.1	-14.6	-1.7		0.0	0.0	0.0	6.7	27.5
P-373 A/B	CNEL	98.0		542.0	-65.7	5.1	-15.2	-1.6		0.0	0.0	0.0	6.7	27.3
P-374 A/B	CNEL	98.0		545.8	-65.7	5.1	-15.1	-1.7		0.0	0.0	0.0	6.7	27.3
P-375 A/B	CNEL	98.0		554.5	-65.9	5.1	-14.8	-1.7		0.0	0.0	0.0	6.7	27.4
P-376	CNEL	98.0		548.3	-65.8	5.1	-15.0	-1.7		0.0	0.0	0.0	6.7	27.3
P-376 A/B	CNEL	98.0		537.8	-65.6	5.1	-15.3	-1.6		0.0	0.0	0.0	6.7	27.2
P-377	CNEL	98.0		550.5	-65.8	5.1	-14.9	-1.7		0.0	0.0	0.0	6.7	27.3
P-1101 A	CNEL	98.9		303.6	-60.6	4.8	-22.8	-1.2		0.0	0.0	0.0	6.7	25.8
P-1103	CNEL	98.9		305.0	-60.7	4.8	-23.5	-1.3		0.0	0.0	0.0	6.7	24.8
P-1105 A/B/C	CNEL	98.9		298.2	-60.5	4.8	-22.9	-1.2		0.0	0.0	0.0	6.7	25.8
P-1800	CNEL	98.9		289.4	-60.2	5.0	-24.6	-1.4		0.0	2.4	0.0	6.7	26.8
P-1801	CNEL	98.9		243.9	-58.7	4.9	-15.2	-0.8		0.0	0.2	0.0	6.7	36.0
P-1802	CNEL	98.9		242.7	-58.7	4.9	-15.3	-0.8		0.0	1.6	0.0	6.7	37.3
P-1803	CNEL	99.1		312.0	-60.9	5.1	-24.1	-1.4		0.0	0.0	0.0	6.7	24.5
P-1804	CNEL	99.1		301.2	-60.6	5.1	-23.3	-1.2		0.0	0.0	0.0	6.7	25.8
P-1805	CNEL	99.1		298.1	-60.5	5.1	-23.5	-1.2		0.0	0.2	0.0	6.7	25.8
P-1806	CNEL	99.1		336.1	-61.5	5.1	-22.4	-1.3		0.0	0.0	0.0	6.7	25.6
P-1809 A	CNEL	98.9		276.4	-59.8	5.0	-24.8	-1.4		0.0	8.7	0.0	6.7	33.3
P-1810 A/B/C	CNEL	99.0		293.8	-60.4	5.1	-24.7	-1.4		0.0	0.0	0.0	6.7	24.3
P-1811 A/B	CNEL	99.1		329.2	-61.3	5.1	-22.9	-1.3		0.0	0.0	0.0	6.7	25.3
P-1811 A/B	CNEL	99.1		294.2	-60.4	5.1	-23.4	-1.2		0.0	0.0	0.0	6.7	25.9
P-1847 A/B	CNEL	99.4		319.8	-61.1	5.1	-23.7	-1.3		0.0	0.0	0.0	6.7	25.1
P-1849 A/B	CNEL	99.4		313.2	-60.9	5.1	-23.7	-1.3		0.0	0.0	0.0	6.7	25.2
P-1853	CNEL	99.1		445.3	-64.0	5.2	-20.2	-1.4	-0.96	0.0	0.0	0.0	6.7	24.4
Piping Furnace Tanks	CNEL	87.1	72	488.6	-64.8	4.3	-18.4	-5.4		0.0	0.3	0.0	6.7	9.7
Piping Hydrogen Tanks Compressor	CNEL	98.4	69	500.1	-65.0	4.5	-20.0	-5.4		0.0	0.1	0.0	6.7	19.3
Piping Hydrogen Tanks Compressor w NC	CNEL	114.6	36	532.3	-65.5	4.9	-24.9	-4.3		0.0	0.0	0.0	6.7	31.4
Piping Hydrogen Tanks Compressorw NC	CNEL	115.2	42	529.3	-65.5	4.9	-25.0	-10.6		0.0	0.3	0.0	6.7	26.0
Pre-Treat Train-Pre-Treat Outside Area E	CNEL	107.5	566	227.2	-58.1	3.1	-10.1	-1.0		0.0	0.0	0.0	6.7	51.1
Pre-Treat Train-Pre-Treat Outside Area N	CNEL	108.1	652	250.9	-59.0	3.1	-23.9	-1.1		0.0	2.6	0.0	6.7	39.4
Pre-Treat Train-Pre-Treat Outside Area N2	CNEL	101.1	128	278.7	-59.9	3.2	-24.0	-1.3		0.0	0.0	0.0	6.7	28.8
Pre-Treat Train-Pre-Treat Outside Area S	CNEL	108.1	652	248.7	-58.9	3.1	-22.2	-1.0		0.0	0.3	0.0	6.7	39.1
Pre-Treat Train-Pre-Treat Outside Area S2	CNEL	101.0	126	277.9	-59.9	2.7	-23.7	-1.2		0.0	0.0	0.0	6.7	28.5
Pre-Treat Train-Pre-Treat Outside Area W1	CNEL	100.7	118	274.6	-59.8	3.2	-24.1	-1.3		0.0	0.4	0.0	6.7	28.9
Pre-Treat Train-Pre-Treat Outside Area W2	CNEL	103.7	235	282.8	-60.0	3.2	-23.6	-1.2		0.0	0.0	0.0	6.7	31.7
Pre-Treat Train-Pre-Treat Outside Area W3	CNEL	103.1	206	273.3	-59.7	3.2	-23.4	-1.2		0.0	0.4	0.0	6.7	32.1
Pre-Treat Train-Roof 01	CNEL	113.1	2037	251.5	-59.0	2.4	-10.6	-1.0		0.0	0.1	0.0	6.7	51.6
PSA Pipe 3" Lagging	CNEL	80.6	11	514.8	-65.2	3.5	-22.6	-3.5		0.0	0.0	0.0	6.7	-0.5
PSA Skid Additional Piping w NC	CNEL	116.6	57	535.3	-65.6	4.9	-25.0	-4.3		0.0	0.0	0.0	6.7	33.3
Reformer-Burner Reformer East	CNEL	97.3	269	478.7	-64.6	3.2	-24.3	-2.7		0.0	1.8	0.0	6.7	20.4
Reformer-Burner Reformer North	CNEL	95.9	192	487.0	-64.7	3.3	-23.6	-2.5		0.0	0.2	0.0	6.7	15.2
Reformer-Burner Reformer South	CNEL	95.8	191	468.2	-64.4	3.3	-16.8	-1.9		0.0	0.4	0.0	6.7	26.1
Reformer-Burner Reformer West	CNEL	97.3	268	476.5	-64.6	3.3	-12.6	-1.7		0.0	0.0	0.0	6.7	31.5
RFG A from battery to process	CNEL	99.4	87	493.7	-64.9	4.5	-20.3	-5.4		0.0	0.1	0.0	6.7	20.0
RFG A from battery to process w NC	CNEL	115.2	42	529.7	-65.5	4.9	-24.9	-10.4		0.0	0.2	0.0	6.7	26.2
Stack Noise	CNEL	108.4		440.7	-63.9	2.4	-4.7	-2.0		-5.8	0.0	0.0	6.7	41.1
Steam Turbine-Facade 01	CNEL	99.6	29	537.1	-65.6	5.1	-18.3	-3.0		0.0	1.7	0.0	6.7	26.2
Steam Turbine-Facade 02	CNEL	96.2	13	533.4	-65.5	5.2	-18.3	-3.0		0.0	0.2	0.0	6.7	21.4
Steam Turbine-Facade 03	CNEL	99.6	29	537.6	-65.6	5.2	-24.0	-5.4		0.0	5.6	0.0	6.7	22.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Steam Turbine-Facade 04	CNEL	96.2	13	541.3	-65.7	5.1	-23.9	-5.3		0.0	6.8	0.0	6.7	20.0	
Steam Turbine-Roof 01	CNEL	99.7	30	537.4	-65.6	4.8	-17.7	-3.1		0.0	1.9	0.0	6.7	26.8	
Tank Farm Pump 1	CNEL	99.0	3	335.0	-61.5	5.0	-19.6	-1.5		0.0	0.2	0.0	6.7	28.2	
Tank Farm Pump 2	CNEL	99.0	3	313.8	-60.9	4.9	-20.3	-1.4		0.0	0.0	0.0	6.7	27.9	
Tank Farm Pump 3	CNEL	99.0	3	307.9	-60.8	4.9	-20.5	-1.4		0.0	1.0	0.0	6.7	28.9	
UP Train Locomotive Delivery and Pickup 2022 2x	CNEL	112.4	1388	757.1	-68.6	4.9	-13.6	-2.0	-0.04	0.0	0.0	-13.8	0.0	19.3	
XF-1502 Splitter Area 1	CNEL	104.5		603.2	-66.6	4.0	-20.6	-2.2	-0.02	-2.6	0.0	0.0	6.7	23.2	
XF-1502 Splitter Area 2	CNEL	104.5		602.7	-66.6	3.9	-11.0	-2.3	-0.05	-3.2	0.0	0.0	6.7	32.0	
XF-1504 Splitter Area 1	CNEL	104.5		598.8	-66.5	3.9	-20.7	-2.2	-0.02	-2.6	0.1	0.0	6.7	23.1	
XF-1504 Splitter Area 2	CNEL	104.5		598.3	-66.5	3.9	-11.0	-2.3	-0.02	-3.2	0.0	0.0	6.7	32.0	
XF 251, 250, 271, 270	CNEL	101.1	128	437.8	-63.8	3.3	-11.9	-0.7	0.00	-1.5	0.0	0.0	6.7	33.2	
XF 260, 261A, 261 B	CNEL	99.9	97	490.0	-64.8	3.5	-10.6	-0.8	0.00	-1.6	0.0	0.0	6.7	32.3	
XF 304, XF 321	CNEL	110.5	56	673.1	-67.6	3.7	-18.2	-1.0	-0.02	-1.3	0.0	0.0	6.7	32.9	
XF 313, XF 314	CNEL	113.0	18	679.0	-67.6	4.2	-16.5	-1.5	0.00	-2.4	0.0	0.0	6.7	35.8	
XF 335-1, XF 335-2	CNEL	113.4	54	675.1	-67.6	3.9	-17.2	-1.2	-0.04	-1.4	0.0	0.0	6.7	36.5	
XF 353A/B	CNEL	95.4	35	367.8	-62.3	3.0	-14.6	-0.5	0.00	-1.3	0.0	0.0	6.7	26.3	
XF 353A/B	CNEL	95.4	35	375.8	-62.5	3.0	-13.2	-0.6	0.00	-1.5	0.0	0.0	6.7	27.5	
XF 354A/B	CNEL	95.4	35	401.8	-63.1	3.2	-14.4	-0.6	0.00	-1.4	0.0	0.0	6.7	25.8	
XF 503	CNEL	113.0	21	647.9	-67.2	4.3	-12.0	-1.8	-0.43	-3.0	0.0	0.0	6.7	39.5	
XF - 1601	CNEL	96.6		583.1	-66.3	2.8	-8.2	-1.2		-1.6	0.0	0.0	6.7	28.8	
XF - 1602	CNEL	96.6		577.2	-66.2	2.7	-8.2	-1.2		-1.6	0.0	0.0	6.7	28.8	
XF Module 1510	CNEL	108.3		607.9	-66.7	4.1	-11.3	-2.3	-0.23	-3.2	0.0	0.0	6.7	35.3	
XF Module 1519	CNEL	109.0		608.6	-66.7	4.1	-11.1	-2.3	-0.23	-3.2	0.0	0.0	6.7	36.3	
xxxx xxxx xxxx xxxx	CNEL		606								2.3			64.8	
xxxx xxxx xxxx xxxx	CNEL		606								2.7			64.2	
xxxx xxxx xxxx xxxx	CNEL		917								12.2			44.4	
xxxx xxxx xxxx xxxx	CNEL		917								12.3			44.4	
xxxx xxxx xxxx xxxx	CNEL		608								1.5			14.5	
xxxx xxxx xxxx xxxx	CNEL		608								1.4			14.5	
xxxx xxxx xxxx xxxx	CNEL		228								4.7			25.2	
xxxx xxxx xxxx xxxx	CNEL		520								7.0			57.1	
xxxx xxxx xxxx xxxx	CNEL		1341								6.9			58.6	
xxxx xxxx xxxx xxxx	CNEL		450								4.6			28.6	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
XF 313, XF 314	3211	3688	31.5	113.0	57.9	80.5	99.8	101.7	107.6	109.0	104.8	98.6	87.1	74.3
XF 335-1, XF 335-2	3211	3670	33.5	113.4	73.7	91.5	102.0	104.4	107.3	104.8	108.4	102.8	93.6	82.1
XF 304, XF 321	3211	3658	33.5	110.5	72.5	90.1	100.7	102.9	106.0	103.0	99.7	99.7	89.9	78.4
XF 503	3229	3607	30.8	113.0	73.5	82.0	95.2	102.2	107.4	105.2	99.6	109.0	97.1	73.2
2022 Track Mobile moving rail cars 2 x 25 cars day time	3291	3503	25.4	109.0	84.4	95.5	92.6	91.2	96.6	101.7	102.9	102.8	100.6	95.1
E 321 Fin Fan Hydrogen Plant - Low Noise	3430	3588	31.0	95.8	57.8	75.4	86.0	88.2	91.3	88.3	85.0	85.0	75.2	63.7
XF 260, 261A, 261 B	3386	3492	31.7	99.9	61.8	79.5	90.1	92.2	95.4	92.4	89.1	89.1	79.2	67.8
XF 251, 250, 271, 270	3439	3492	31.9	101.1	63.1	80.7	91.3	93.5	96.6	93.6	90.3	90.3	80.5	69.0
XF 353A/B	3503	3481	32.1	95.4	57.4	75.1	85.7	87.8	91.0	88.0	84.7	84.7	74.8	63.4
XF 353A/B	3515	3460	32.0	95.4	57.4	75.0	85.7	87.8	90.9	88.0	84.7	84.6	74.8	63.4
XF 354A/B	3486	3437	31.9	95.4	57.4	75.0	85.7	87.8	90.9	88.0	84.7	84.6	74.8	63.4
Cooling Tower CT 511-CT 511 East Side	3308	3603	27.9	97.6	55.2	70.3	84.1	89.1	91.1	91.5	90.1	89.0	82.3	
Cooling Tower CT 511-CT 511 West Side	3290	3603	27.9	97.7	55.2	70.4	84.1	89.2	91.2	91.5	90.2	89.0	82.4	
Cooling Tower CT 510-CT 510 East Side	3284	3604	26.8	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Cooling Tower CT 510-CT 510 West Side	3271	3604	26.8	94.9	52.4	67.6	81.3	86.3	88.4	88.7	87.4	86.2	79.6	
Boiler Crude Unit-Heater Opening	3505	3408	25.3	95.6	62.0	72.8	81.2	88.7	89.3	90.1	87.7	83.1	75.8	61.7
Heater # 5-Heater	3498	3411	25.2	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3503	3411	25.2	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Heater # 5-Heater	3508	3411	25.2	91.1	57.5	68.3	76.7	84.2	84.8	85.7	83.2	78.7	71.4	57.2
Compressor House C301, C302, C 124-Comp House North	3203	3609	26.8	103.5	60.1	72.0	91.9	96.3	97.4	95.9	97.2	91.4	87.1	
Compressor House C301, C302, C 124-Comp House West	3191	3603	26.8	97.4	55.0	70.2	83.9	88.9	90.9	91.3	89.9	88.8	82.1	
Compressor House C301, C302, C 124-Comp House South 1	3201	3598	26.8	107.7	64.3	76.1	96.1	100.4	101.6	100.0	101.4	95.6	91.2	
Compressor House C301, C302, C 124-Comp House East 1	3210	3601	26.8	101.8	58.4	70.2	90.2	94.5	95.7	94.1	95.5	89.7	85.3	
Compressor House C301, C302, C 124-Comp House South 2	3212	3603	26.8	100.8	57.4	69.2	89.2	93.5	94.7	93.1	94.5	88.7	84.3	
Compressor House C301, C302, C 124-Comp House East 2	3214	3606	26.8	100.5	67.7	73.9	82.0	93.5	93.9	94.1	91.3	94.1	78.0	
Reformer-Burner Reformer South	3413	3621	34.5	95.8		63.8	69.8	77.2	91.0	90.3	88.0	87.7	83.5	
Reformer-Burner Reformer East	3403	3628	34.4	97.3		65.3	71.2	78.6	92.5	91.8	89.4	89.2	84.9	
Reformer-Burner Reformer North	3394	3621	34.5	95.9		63.8	69.8	77.2	91.0	90.3	88.0	87.8	83.5	
Reformer-Burner Reformer West	3403	3614	34.5	97.3		65.3	71.2	78.6	92.4	91.8	89.4	89.2	84.9	
Steam Turbine-Roof 01	3340	3606	27.5	99.7	59.9	67.1	77.9	84.4	87.9	90.1	91.4	97.4	86.3	71.7
Steam Turbine-Facade 01	3340	3604	25.7	99.6	59.8	66.9	77.7	84.3	87.8	90.0	91.3	97.3	86.2	71.6
Steam Turbine-Facade 02	3344	3606	25.7	96.2	56.5	63.6	74.4	80.9	84.4	86.6	88.0	94.0	82.8	68.2
Steam Turbine-Facade 03	3340	3608	25.7	99.6	59.8	66.9	77.7	84.3	87.8	90.0	91.3	97.3	86.2	71.6
Steam Turbine-Facade 04	3336	3606	25.7	96.2	56.5	63.6	74.4	80.9	84.4	86.6	88.0	94.0	82.8	68.2
Pre-Treat Train-Roof 01	3622	3552	38.5	113.1	61.3	77.1	90.3	100.7	106.9	109.6	105.7	101.0	91.8	81.5
Pre-Treat Train-Pre-Treat Outside Area S	3624	3532	31.5	108.1	56.3	72.1	85.4	95.8	101.9	104.6	100.7	96.0	86.8	76.6
Pre-Treat Train-Pre-Treat Outside Area E	3647	3552	31.5	107.5	55.7	71.5	84.8	95.2	101.3	104.0	100.1	95.4	86.2	76.0
Pre-Treat Train-Pre-Treat Outside Area N	3624	3572	31.5	108.1	56.3	72.1	85.4	95.8	101.9	104.6	100.7	96.0	86.8	76.6
Pre-Treat Train-Pre-Treat Outside Area W1	3601	3568	31.5	100.7	48.9	64.7	78.0	88.4	94.5	97.2	93.3	88.6	79.4	69.2
Pre-Treat Train-Pre-Treat Outside Area N2	3596	3564	31.5	101.1	49.2	65.1	78.3	88.7	94.9	97.6	93.7	88.9	79.7	69.5
Pre-Treat Train-Pre-Treat Outside Area W2	3592	3555	31.5	103.7	51.9	67.7	81.0	91.3	97.5	100.2	96.3	91.6	82.4	72.1
Pre-Treat Train-Pre-Treat Outside Area S2	3596	3547	31.5	101.0	49.2	65.0	78.2	88.6	94.8	97.5	93.6	88.9	79.7	69.4
Pre-Treat Train-Pre-Treat Outside Area W3	3601	3539	31.5	103.1	51.3	67.1	80.4	90.8	96.9	99.6	95.7	91.0	81.8	71.6
ID Fan-ID Fan Roof 01 (128293)	3437	3621	28.4	94.0		91.8	87.9	84.4	79.8	69.0	62.2	52.0	42.9	
ID Fan-ID Fan - South	3436	3620	26.9	92.3		90.1	86.2	82.7	78.1	67.3	60.5	50.3	41.2	
ID Fan-ID Fan - East (128302)	3437	3620	26.9	87.3		85.1	81.2	77.7	73.1	62.3	55.5	45.3	36.2	
ID Fan-ID Fan - South 2	3438	3620	26.9	91.4		89.2	85.3	81.8	77.2	66.4	59.6	49.4	40.3	
ID Fan-ID Fan - North 2	3438	3622	26.9	91.4		89.2	85.3	81.8	77.2	66.4	59.6	49.4	40.3	
ID Fan-ID Fan - East 1 (128306)	3437	3622	26.9	87.0		84.8	80.9	77.4	72.8	62.0	55.2	45.0	35.9	
ID Fan-ID Fan - North	3436	3623	26.9	92.2		90.0	86.1	82.6	78.0	67.2	60.4	50.2	41.1	
FD Fan Assembly-FD Fan - Roof	3423	3632	29.3	93.4	81.6	88.6	88.6	85.6	82.6	76.6	74.6	59.6	48.6	
FD Fan Assembly-FD Fan - West	3421	3632	27.3	95.3	83.5	90.5	90.5	87.5	84.5	78.5	76.5	61.5	50.5	
FD Fan Assembly-FD Fan - South	3423	3630	27.3	93.2	81.4	88.3	88.3	85.4	82.4	76.3	74.3	59.4	48.4	
FD Fan Assembly-FD Fan - East	3424	3632	27.3	95.4	83.6	90.5	90.5	87.5	84.5	78.5	76.5	61.5	50.5	
FD Fan Assembly-FD Fan - North	3423	3634	27.3	93.1	81.3	88.2	88.2	85.3	82.3	76.2	74.2	59.3	48.2	
Motor & Pump P 312	3217	3632	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 313	3217	3630	24.2	101.5	49.7	65.5	78.7	89.1	95.3	98.0	94.1	89.4	80.2	69.9
Motor & Pump P 319	3218	3627	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 318	3218	3626	24.0	100.2	48.4	64.2	77.4	87.8	94.0	96.7	92.8	88.1	78.9	68.6
Motor & Pump P 315	3217	3624	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 316	3217	3622	24.5	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 317	3217	3620	24.7	102.9	51.1	66.9	80.1	90.5	96.7	99.4	95.5	90.8	81.6	71.3
Motor & Pump P 309	3217	3667	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 305	3217	3665	24.7	97.5	45.7	61.5	74.7	85.1	91.3	94.0	90.1	85.4	76.2	65.9
Motor & Pump P 303	3217	3664	24.7	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 302	3217	3662	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 300	3217	3661	24.6	97.1	45.3	61.1	74.3	84.7	90.9	93.6	89.7	85.0	75.8	65.5
Motor & Pump P 301	3217	3659	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 307	3217	3654	24.6	102.1	50.3	66.1	79.3	89.7	95.9	98.6	94.7	90.0	80.8	70.5
Motor & Pump P 120/121	3229	3658	24.7	96.2	44.4	60.2	73.4	83.8	90.0	92.7	88.8	84.1	74.9	64.6
Air Compressor C 1	3229	3671	24.4	110.0	66.6	78.5	98.4	102.8	103.9	102.4	103.7	97.9	93.6	
Motor & Pump P 327	3217	3683	24.7	111.2	52.5	68.1	77.3	90.9	103.2	106.4	107.0	101.7	93.6	81.0
Motor & Pump P 306	3217	3675	25.1	112.6	52.9	82.5	86.6	105.4	106.6	101.6	107.3	99.9	103.9	82.3
Motor & Pump P 329	3217	3672	25.1	110.2	56.3	78.3	86.3	97.0	102.1	108.1	101.1	96.2	87.5	76.9
Motor & Pump P 328	3217	3669	25.1	109.9	58.1	73.9	87.2	97.6	103.7	106.4	102.5	97.8	88.6	78.4
Tank Farm Pump 1	3543	3594	25.3	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 2	3565	3594	25.2	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Tank Farm Pump 3	3571	3594	25.2	99.0	56.0	68.8	74.8	84.0	90.5	93.4	95.4	89.3	76.2	66.7
Motor & Pump P - 1507 Reactor Pump	3266	3623	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1508 Reactor Pump	3266	3625	24.7	96.7	47.7	62.8	74.9	82.5	87.9	91.0	92.2	89.1	80.0	
Motor & Pump P - 1502 Splitter Reflux Pu	3275	3620	24.6	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1503 Splitter Bottoms P	3275	3625	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1504 Splitter Bottoms P	3275	3628	24.8	96.6	47.6	62.7	74.8	82.4	87.8	90.9	92.1	89.0	79.9	
Motor & Pump P - 1511 Stabilizer Reflux	3282	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1512 Stabilizer Reflux	3279	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1513 Caustic Circulatin	3275	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P - 1514 Caustic Circulatin	3277	3633	24.8	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 A	3294	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1601 B	3296	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 A	3297	3620	25.5	96.3	47.3	62.4	74.5	82.1	87.5	90.6	91.8	88.7	79.6	
Motor & Pump P 1602 B	3298	3620	25.5	96.5	47.5	62.6	74.7	82.3	87.7	90.8	92.0	88.9	79.8	
UP Train Locomotive Delivery and Pickup 2022 2x	3068	3642	27.0	112.4	87.7	98.9	96.0	94.5	99.9	105.1	106.3	106.1	104.0	98.5
Cars Pumping 6 times in during delivery	3272	3512	25.0	134.7	119.5	120.0	105.7	128.2	122.6	132.4	121.7	117.1	108.1	92.6
Piping Furnace Tanks	3390	3611	31.0	87.1		40.7	63.7	61.7	67.7	75.7	73.7	84.7	81.7	
Feed Compressor-A Compressor	3386	3566	26.9	104.0	62.8	78.6	89.8	89.3	95.5	99.7	98.5	93.9	88.5	75.9
Feed Compressor-A Motor	3386	3561	27.4	103.8		67.1	75.1	82.1	97.1	96.1	99.1	97.1	91.1	
Feed Compressor-B Compressor	3400	3566	27.0	104.0	62.8	78.6	89.8	89.3	95.5	99.7	98.5	93.9	88.5	75.9
Feed Compressor -B Motor	3400	3560	27.4	103.8		67.1	75.1	82.1	97.1	96.1	99.1	97.1	91.1	
Boiler Feed Water Pump A	3439	3562	25.2	97.1	47.5	62.0	76.2	84.7	89.7	93.6	90.2	85.9	80.6	
Boiler Feed Water Pump B	3439	3558	25.2	97.1	47.5	62.0	76.2	84.7	89.7	93.6	90.2	85.9	80.6	
C370A	3358	3576	27.0	103.8	62.6	78.4	89.6	89.1	95.3	99.5	98.3	93.7	88.3	75.7
C370 A Motor	3358	3572	27.3	103.6	62.4	78.2	89.4	88.9	95.1	99.3	98.1	93.5	88.1	75.5
C370B	3368	3576	27.1	103.8	62.6	78.4	89.6	89.1	95.3	99.5	98.3	93.7	88.3	75.7
C370 B Motor	3368	3571	27.3	108.6	67.4	83.2	94.4	93.9	100.1	104.3	103.1	98.5	93.1	80.5
C-270 C	3465	3467	27.0	106.3	65.1	80.9	92.1	91.6	97.8	102.0	100.8	96.2	90.8	78.2
C-270 B	3470	3467	27.0	106.3	65.1	80.9	92.1	91.6	97.8	102.0	100.8	96.2	90.8	78.2
C-270 A	3475	3467	27.0	106.3	65.1	80.9	92.1	91.6	97.8	102.0	100.8	96.2	90.8	78.2
C-351 Compressor	3494	3473	27.0	106.8	65.6	81.4	92.6	92.1	98.3	102.5	101.3	96.7	91.3	78.7
C-351 Motor	3494	3469	28.0	106.8		70.1	78.1	85.1	100.1	99.1	102.1	100.1	94.1	
C-301 Compressor	3491	3491	27.0	106.8	65.6	81.4	92.6	92.1	98.3	102.5	101.3	96.7	91.3	78.7
C-301 Motor	3487	3491	27.0	106.8		70.1	78.1	85.1	100.1	99.1	102.1	100.1	94.1	
ID Fan Motor	3436	3624	26.9	104.4	55.3	70.5	82.6	90.1	95.5	98.7	99.9	96.7	87.6	
FD Motor	3425	3632	26.7	103.3		66.6	74.6	81.6	96.6	95.6	98.6	96.6	90.6	
Piping Hydrogen Tanks Compressor	3377	3594	29.8	98.4		52.0	75.0	73.0	79.0	87.0	85.0	96.0	93.0	
RFG A from battery to process	3383	3594	29.8	99.4		53.0	76.0	74.0	80.0	88.0	86.0	97.0	94.0	
Piping Hydrogen Tanks Compressor w NC	3348	3622	27.4	114.6	75.4	82.6	85.6	92.1	100.8	109.0	111.7	106.1	96.9	85.9
Piping Hydrogen Tanks Compressorw NC	3350	3621	27.5	115.2		68.8	91.8	89.8	95.8	103.8	101.8	112.8	109.8	
RFG A from battery to process w NC	3350	3624	27.5	115.2		68.8	91.8	89.8	95.8	103.8	101.8	112.8	109.8	
PSA Pipe 3" Lagging	3366	3622	35.4	80.6	41.5	48.6	51.6	58.1	66.8	75.0	77.7	72.1	62.9	51.9
PSA Skid Additional Piping w NC	3345	3622	27.4	116.6	77.5	84.6	87.6	94.2	102.8	111.0	113.7	108.1	98.9	87.9
Nitrogen Skid w Compressor 18-PK 1806	3254	3672	25.9	104.2	63.0	78.7	89.9	89.4	95.6	99.9	98.6	94.1	88.7	76.0
H2S Compressor 18-C-271	3230	3636	25.7	105.3	64.1	79.9	91.1	90.6	96.8	101.1	99.8	95.2	89.8	77.2
Cooling Tower M 513	3276	3598	25.4	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 512	3277	3598	25.2	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Cooling Tower M 514	3279	3598	25.3	95.7	55.6	61.3	71.3	79.5	87.8	92.2	90.9	80.3	72.9	53.5
Hydro Heater H-402	3250	3598	24.9	98.1	57.2	68.0	79.4	94.1	91.1	89.8	87.7	88.6	82.9	73.3
Motor & Pump P 56A/B	3242	3613	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 459	3250	3592	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 454	3250	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 451	3251	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 458	3253	3591	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 453	3254	3579	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 457	3254	3578	24.9	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 211/212	3223	3588	24.6	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 217/218	3223	3590	24.0	93.7	44.6	59.8	71.9	79.4	84.8	88.0	89.2	86.0	76.9	
Motor & Pump P 215/214	3222	3593	24.6	94.6	45.6	60.8	72.9	80.4	85.8	89.0	90.2	87.0	77.9	

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Motor & Pump P 216	3216	3589	25.0	98.3	49.3	64.4	76.5	84.1	89.5	92.6	93.8	90.7	81.6	
XF Module 1519	3271	3627	32.7	109.0	77.1	84.1	89.4	95.1	98.8	105.0	104.2	99.4	91.1	76.8
XF Module 1510	3271	3622	32.7	108.3	76.4	83.4	88.7	94.4	98.1	104.3	103.5	98.7	90.4	76.1
XF-1502 Splitter Area 1	3277	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1502 Splitter Area 2	3277	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 1	3282	3629	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF-1504 Splitter Area 2	3282	3625	33.7	104.5	72.6	79.6	84.9	90.6	94.3	100.5	99.7	94.9	86.6	72.3
XF - 1601	3296	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
XF - 1602	3302	3619	38.8	96.6	63.6	76.4	85.5	90.0	90.4	91.6	86.8	80.6	72.5	
Motor & Pump P 1505 FRESH FEED PUMPS	3266	3620	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1506 FRESH FEED PUMPS	3266	3621	24.7	96.2	47.2	62.3	74.4	82.0	87.4	90.5	91.7	88.6	79.5	
Motor & Pump P 1509 Chloride Injection P	3275	3655	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Motor & Pump P 1510 Chloride Injection P	3275	3656	24.8	95.4	46.4	61.5	73.6	81.2	86.6	89.7	90.9	87.8	78.7	
Blower F 401	3240	3559	25.3	113.0	75.6	87.5	101.6	109.9	107.3	103.6	98.5	92.1	84.9	66.1
Stack Noise	3442	3621	55.3	108.4		94.8	99.9	102.4	97.8	97.0	102.2	99.0	95.9	
P-371 A/B	3314	3578	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-375 A/B	3321	3579	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-377	3325	3579	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-376	3327	3579	24.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-374 A/B	3329	3579	24.6	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-373 A/B	3333	3579	24.6	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-376 A/B	3337	3579	24.6	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-261 A/B	3376	3498	23.7	98.0	46.2	62.0	75.2	85.6	91.8	94.5	90.6	85.9	76.7	66.4
P-262 A/B	3392	3498	23.7	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-263 A/B	3396	3498	23.7	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-260	3400	3497	23.7	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-255 A/B	3409	3487	23.7	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-259 A/B	3413	3486	23.7	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-251 A/B	3417	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-256 A/B	3420	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-255 A/B	3425	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-254 A/B	3428	3486	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-272 A/B	3434	3486	23.9	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-271 A/B	3439	3486	23.9	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-275 A/B/C	3440	3497	23.9	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-253	3428	3497	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-252 A/B	3420	3497	23.8	98.2	46.4	62.2	75.4	85.8	92.0	94.7	90.8	86.1	76.9	66.6
P-1853	3439	3445	23.8	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-273 A/B	3469	3488	24.0	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-270 A/B	3472	3488	24.0	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-353	3488	3444	24.9	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-305	3485	3430	23.8	99.3	47.5	63.3	76.5	86.9	93.1	95.8	91.9	87.2	78.0	67.7
P-309	3488	3430	23.8	99.3	47.5	63.3	76.5	86.9	93.1	95.8	91.9	87.2	78.0	67.7
P-306	3495	3430	23.8	100.8	49.0	64.8	78.0	88.4	94.6	97.3	93.4	88.7	79.5	69.2
P-329	3498	3430	23.8	100.8	49.0	64.8	78.0	88.4	94.6	97.3	93.4	88.7	79.5	69.2
P-328	3501	3430	23.8	100.8	49.0	64.8	78.0	88.4	94.6	97.3	93.4	88.7	79.5	69.2
P-360 A/B	3508	3454	24.0	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-359 A/B	3508	3464	24.0	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-358 A/B	3508	3468	24.1	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-361A	3553	3494	25.3	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
P-1806	3540	3505	24.3	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1811 A/B	3547	3505	24.3	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1804	3577	3489	24.1	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1805	3580	3490	24.0	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1811 A/B	3584	3489	24.1	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1810 A/B/C	3583	3501	24.0	99.0	47.2	63.0	76.2	86.6	92.8	95.5	91.6	86.9	77.7	67.4
P-73 A/B	3586	3439	24.2	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-2 A/B	3590	3439	24.2	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-63	3559	3431	24.0	98.5	46.7	62.5	75.7	86.1	92.3	95.0	91.1	86.4	77.2	66.9
P-1103	3580	3459	25.1	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1101 A	3581	3459	25.1	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1105 A/B/C	3587	3459	25.2	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1800	3612	3416	24.5	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1809 A	3625	3421	23.9	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1801	3662	3420	24.2	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1802	3662	3422	24.1	98.9	47.1	62.9	76.1	86.5	92.7	95.4	91.5	86.8	77.6	67.3
P-1803	3564	3505	24.3	99.1	47.3	63.1	76.3	86.7	92.9	95.6	91.7	87.0	77.8	67.5
P-1847 A/B	3556	3573	24.3	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-1849 A/B	3562	3573	24.3	99.4	47.6	63.4	76.6	87.0	93.2	95.9	92.0	87.3	78.1	67.8
P-060 A/B	3553	3473	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
P-70 A/B	3553	3468	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5

AltAir Paramount - WorldEnergy
Octave spectra of the sources in dB(A) - Case 3

Name	X	Y	Z	Lw	31.5Hz	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
	m	m	m	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
P-50 A/B	3553	3463	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
P-51 A/B	3553	3458	24.0	98.1	46.3	62.1	75.3	85.7	91.9	94.6	90.7	86.0	76.8	66.5
Air Compressor Pump	3356	3527	24.8	100.3	61.9	72.1	77.2	84.7	90.1	93.3	94.5	94.3	92.2	
18-1857 A/B	3425	3537	24.8	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-1855 A/B	3432	3537	24.8	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-1856 A/B	3439	3537	24.8	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-1858 A/B	3420	3537	25.5	98.8	47.0	62.8	76.0	86.4	92.6	95.3	91.4	86.7	77.5	67.2
18-PK 1802 Air Compressor Package	3446	3525	24.0	103.1	51.5	72.6	82.7	100.3	95.7	94.8	92.0	89.9	83.8	

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 3

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
ID Fan Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
18-1855 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-1856 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-1857 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-1858 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
18-PK 1802 Air Compressor Package	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
2022 Track Mobile moving rail cars 2 x 25 cars day time									109	109	109		109	109			109	109		109				
Air Compressor C 1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Air Compressor Pump	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Blower F 401	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Boiler Crude Unit-Heater Opening	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Boiler Feed Water Pump A	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Boiler Feed Water Pump B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
C370 A Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
C370 B Motor	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
C370A	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
C370B	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
C-270 A	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
C-270 B	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
C-270 C	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
C-301 Compressor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
C-301 Motor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
C-351 Compressor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
C-351 Motor	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
Cars Pumping 6 times in during delivery											110								110					
Compressor House C301, C302, C 124-Comp House East 1	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Compressor House C301, C302, C 124-Comp House East 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House North	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Compressor House C301, C302, C 124-Comp House South 1	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Compressor House C301, C302, C 124-Comp House South 2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Compressor House C301, C302, C 124-Comp House West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Cooling Tower CT 510-CT 510 East Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 510-CT 510 West Side	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Cooling Tower CT 511-CT 511 East Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower CT 511-CT 511 West Side	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Cooling Tower M 512	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 513	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Cooling Tower M 514	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
E 321 Fin Fan Hydrogen Plant - Low Noise	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
FD Fan Assembly-FD Fan - East	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
FD Fan Assembly-FD Fan - North	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
FD Fan Assembly-FD Fan - Roof	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
FD Fan Assembly-FD Fan - South	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
FD Fan Assembly-FD Fan - West	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
FD Motor	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Feed Compressor -B Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Feed Compressor-A Compressor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Feed Compressor-A Motor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Feed Compressor-B Compressor	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
H2S Compressor 18-C-271	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Heater # 5-Heater	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 3

Name	0-1	1-2	3-4	2-3	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock	כ'clock
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Hydro Heater H-402	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
ID Fan-ID Fan - East 1 (128306)	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
ID Fan-ID Fan - East (128302)	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
ID Fan-ID Fan - North	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
ID Fan-ID Fan - North 2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
ID Fan-ID Fan - South	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
ID Fan-ID Fan - South 2	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
ID Fan-ID Fan Roof 01 (128293)	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 56A/B	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 120/121	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 211/212	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 215/214	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 216	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Motor & Pump P 217/218	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 300	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 301	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 302	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 303	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 305	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 306	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Motor & Pump P 307	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Motor & Pump P 309	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P 312	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 313	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Motor & Pump P 315	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 316	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 317	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Motor & Pump P 318	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 319	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Motor & Pump P 327	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Motor & Pump P 328	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 329	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Motor & Pump P 451	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 453	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 454	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 457	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 458	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 459	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Motor & Pump P 1505 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1506 FRESH FEED PUMPS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1509 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1510 Chloride Injection P	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Motor & Pump P 1601 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1601 B	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 A	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P 1602 B	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1502 Splitter Reflux Pu	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1503 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1504 Splitter Bottoms P	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1507 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1508 Reactor Pump	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Motor & Pump P - 1511 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1512 Stabilizer Reflux	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1513 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Motor & Pump P - 1514 Caustic Circulatin	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Nitrogen Skid w Compressor 18-PK 1806	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
P-2 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-50 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-51 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-060 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-63	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-70 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-73 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 3

Name	0-1 כ'clock dB(A)	1-2 כ'clock dB(A)	3-4 כ'clock dB(A)	2-3 כ'clock dB(A)	4-5 כ'clock dB(A)	5-6 כ'clock dB(A)	6-7 כ'clock dB(A)	7-8 כ'clock dB(A)	8-9 כ'clock dB(A)	9-10 כ'clock dB(A)	10-11 כ'clock dB(A)	11-12 כ'clock dB(A)	12-13 כ'clock dB(A)	13-14 כ'clock dB(A)	14-15 כ'clock dB(A)	15-16 כ'clock dB(A)	16-17 כ'clock dB(A)	17-18 כ'clock dB(A)	18-19 כ'clock dB(A)	19-20 כ'clock dB(A)	20-21 כ'clock dB(A)	21-22 כ'clock dB(A)	22-23 כ'clock dB(A)	23-24 כ'clock dB(A)
P-251 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-252 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-253	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-254 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-255 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-255 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-256 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-259 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-260	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-261 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-262 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-263 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-270 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-271 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-272 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-273 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-275 A/B/C	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-305	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-306	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
P-309	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-328	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
P-329	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
P-353	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-358 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-359 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-360 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-361A	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-371 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-373 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-374 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-375 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-376	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-376 A/B	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-377	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
P-1101 A	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1103	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1105 A/B/C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1800	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1801	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1802	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1803	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1804	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1805	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1806	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1809 A	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1810 A/B/C	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1811 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1811 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1847 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1849 A/B	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
P-1853	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Piping Furnace Tanks	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Piping Hydrogen Tanks Compressor	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Piping Hydrogen Tanks Compressor w NC	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Piping Hydrogen Tanks Compressorw NC	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Pre-Treat Train-Pre-Treat Outside Area E	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Pre-Treat Train-Pre-Treat Outside Area N	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Pre-Treat Train-Pre-Treat Outside Area N2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Pre-Treat Train-Pre-Treat Outside Area S	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Pre-Treat Train-Pre-Treat Outside Area S2	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Pre-Treat Train-Pre-Treat Outside Area W1	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Pre-Treat Train-Pre-Treat Outside Area W2	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Pre-Treat Train-Pre-Treat Outside Area W3	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
Pre-Treat Train-Roof 01	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
PSA Pipe 3" Lagging	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
PSA Skid Additional Piping w NC	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117

AltAir Paramount - WorldEnergy
Hourly sound power level in dB(A) - Case 3

Name	0-1 o'clock dB(A)	1-2 o'clock dB(A)	3-4 o'clock dB(A)	2-3 o'clock dB(A)	4-5 o'clock dB(A)	5-6 o'clock dB(A)	6-7 o'clock dB(A)	7-8 o'clock dB(A)	8-9 o'clock dB(A)	9-10 o'clock dB(A)	10-11 o'clock dB(A)	11-12 o'clock dB(A)	12-13 o'clock dB(A)	13-14 o'clock dB(A)	14-15 o'clock dB(A)	15-16 o'clock dB(A)	16-17 o'clock dB(A)	17-18 o'clock dB(A)	18-19 o'clock dB(A)	19-20 o'clock dB(A)	20-21 o'clock dB(A)	21-22 o'clock dB(A)	22-23 o'clock dB(A)	23-24 o'clock dB(A)
Reformer-Burner Reformer East	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Reformer-Burner Reformer North	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Reformer-Burner Reformer South	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Reformer-Burner Reformer West	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
RFG A from battery to process	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
RFG A from battery to process w NC	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Stack Noise	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Steam Turbine-Facade 01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Steam Turbine-Facade 02	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Steam Turbine-Facade 03	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Steam Turbine-Facade 04	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Steam Turbine-Roof 01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Tank Farm Pump 1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 2	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Tank Farm Pump 3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
UP Train Locomotive Delivery and Pickup 2022 2x											109						109							
XF-1502 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1502 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 1	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF-1504 Splitter Area 2	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
XF 251, 250, 271, 270	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
XF 260, 261A, 261 B	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
XF 304, XF 321	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
XF 313, XF 314	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 335-1, XF 335-2	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF 353A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
XF 353A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
XF 354A/B	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
XF 503	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
XF - 1601	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF - 1602	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
XF Module 1510	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
XF Module 1519	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

AltAir Paramount - WorldEnergy
Assessed receiver levels
Case 3

Receiver	Fl	X m	Y m	Z m	GH m	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
W-1	G	3058.6	3658.8	25.3	24.0	67.8	67.0	70.6	
W-2	G	3059.7	3750.2	24.7	23.4	65.1	65.1	65.3	
W-3	G	3060.8	3849.7	25.0	23.7	60.4	60.4	60.7	
N-1	G	3152.3	3848.3	25.1	23.8	60.2	60.1	60.5	
N-2	G	3251.7	3846.8	25.6	24.3	53.7	53.6	54.1	
N-3	G	3249.9	3754.2	25.6	24.3	68.3	68.3	68.4	
N-4	G	3341.4	3753.4	25.9	24.6	61.3	61.3	61.5	
N-5	G	3432.8	3752.5	25.9	24.6	59.1	59.1	59.2	
N-6	G	3547.8	3751.5	26.2	24.9	55.8	56.0	56.1	
N-7	G	3639.3	3751.1	26.8	25.5	57.8	58.1	58.2	
N-8	G	3730.7	3750.8	26.5	25.2	62.1	63.0	63.0	
E-1	G	3827.7	3750.4	27.1	25.8	60.0	60.9	60.9	
E-2	G	3829.7	3659.0	27.1	25.8	60.4	61.1	61.1	
E-3	G	3831.0	3598.5	27.1	25.8	56.8	57.5	57.5	
E-4	G	3832.5	3542.1	27.0	25.7	58.0	58.4	58.4	
E-5	G	3832.4	3466.9	26.2	24.9	64.9	64.9	64.9	
E-6	G	3791.9	3467.3	26.0	24.7	66.6	66.6	66.6	
S-1	G	3792.1	3361.0	25.0	23.7	61.0	61.0	61.0	
S-2	G	3709.7	3360.5	25.0	23.7	57.0	57.0	57.0	
S-3	G	3662.7	3361.1	25.0	23.7	52.2	52.2	52.4	
S-4	G	3592.7	3361.1	25.2	23.9	55.6	55.5	56.1	
S-5	G	3529.6	3361.9	25.2	23.9	59.2	58.8	60.3	
S-6	G	3452.3	3410.7	25.2	23.9	71.2	70.9	71.8	
S-7	G	3374.9	3459.4	25.1	23.8	73.3	71.4	75.8	
S-8	G	3297.5	3508.2	25.0	23.7	74.2	69.6	77.3	
S-9	G	3220.2	3556.9	25.0	23.7	76.3	75.8	77.7	
S-10	G	3142.8	3605.7	25.0	23.7	71.0	69.0	74.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Receiver W-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 67.8 dB(A)		Ld 7-19 dB(A)	Leq,N 67.0 dB(A) Le 19-2
ID Fan Motor	33.5	33.5	33.5	
18-1855 A/B	32.2	32.2	32.2	
18-1856 A/B	28.0	28.0	28.0	
18-1857 A/B	32.1	32.1	32.1	
18-1858 A/B	31.9	31.9	31.9	
18-PK 1802 Air Compressor Package	37.9	37.9	37.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	52.4		55.1	
Air Compressor C 1	49.4	49.4	49.4	
Air Compressor Pump	33.0	33.0	33.0	
Blower F 401	54.8	54.8	54.8	
Boiler Crude Unit-Heater Opening	23.7	23.7	23.7	
Boiler Feed Water Pump A	33.0	33.0	33.0	
Boiler Feed Water Pump B	33.0	33.0	33.0	
C-270 A	37.9	37.9	37.9	
C-270 B	38.9	38.9	38.9	
C-270 C	37.2	37.2	37.2	
C-301 Compressor	32.1	32.1	32.1	
C-301 Motor	30.3	30.3	30.3	
C-351 Compressor	37.4	37.4	37.4	
C-351 Motor	36.4	36.4	36.4	
C370 A Motor	38.6	38.6	38.6	
C370 B Motor	45.2	45.2	45.2	
C370A	41.0	41.0	41.0	
C370B	40.2	40.2	40.2	
Cars Pumping 6 times in during delivery	48.4		57.2	
Compressor House C301, C302, C 124-Comp House East 1	24.9	24.9	24.9	
Compressor House C301, C302, C 124-Comp House East 2	29.4	29.4	29.4	
Compressor House C301, C302, C 124-Comp House North	50.3	50.3	50.3	
Compressor House C301, C302, C 124-Comp House South 1	37.9	37.9	37.9	
Compressor House C301, C302, C 124-Comp House South 2	25.9	25.9	25.9	
Compressor House C301, C302, C 124-Comp House West	42.8	42.8	42.8	
Construction / Renewable Fuels Truck Tr	32.3	32.3	32.3	
Cooling Tower CT 510-CT 510 East Side	25.9	25.9	25.9	
Cooling Tower CT 510-CT 510 West Side	40.1	40.1	40.1	
Cooling Tower CT 511-CT 511 East Side	19.1	19.1	19.1	
Cooling Tower CT 511-CT 511 West Side	37.4	37.4	37.4	
Cooling Tower M 512	35.7	35.7	35.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower M 513	35.5	35.5	35.5	
Cooling Tower M 514	35.8	35.8	35.8	
Crude Operatoin Truck Truck Traffic	21.9	22.8	22.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	28.8	28.8	28.8	
FD Fan Assembly-FD Fan - East	33.3	33.3	33.3	
FD Fan Assembly-FD Fan - North	34.8	34.8	34.8	
FD Fan Assembly-FD Fan - Roof	32.0	32.0	32.0	
FD Fan Assembly-FD Fan - South	33.4	33.4	33.4	
FD Fan Assembly-FD Fan - West	37.4	37.4	37.4	
FD Motor	27.8	27.8	27.8	
Feed Compressor-A Compressor	30.4	30.4	30.4	
Feed Compressor-A Motor	27.4	27.4	27.4	
Feed Compressor-B Compressor	38.6	38.6	38.6	
Feed Compressor -B Motor	32.9	32.9	32.9	
H2S Compressor 18-C-271	44.6	44.6	44.6	
Heater # 5-Heater	13.7	13.7	13.7	
Heater # 5-Heater	14.0	14.0	14.0	
Heater # 5-Heater	14.0	14.0	14.0	
Hydro Heater H-402	37.0	37.0	37.0	
ID Fan-ID Fan - East (128302)	14.2	14.2	14.2	
ID Fan-ID Fan - East 1 (128306)	19.6	19.6	19.6	
ID Fan-ID Fan - North	26.4	26.4	26.4	
ID Fan-ID Fan - North 2	24.8	24.8	24.8	
ID Fan-ID Fan - South	19.6	19.6	19.6	
ID Fan-ID Fan - South 2	18.4	18.4	18.4	
ID Fan-ID Fan Roof 01 (128293)	23.4	23.4	23.4	
Motor & Pump P - 1502 Splitter Reflux Pu	31.9	31.9	31.9	
Motor & Pump P - 1503 Splitter Bottoms P	33.4	33.4	33.4	
Motor & Pump P - 1504 Splitter Bottoms P	34.2	34.2	34.2	
Motor & Pump P - 1507 Reactor Pump	32.1	32.1	32.1	
Motor & Pump P - 1508 Reactor Pump	32.1	32.1	32.1	
Motor & Pump P - 1511 Stabilizer Reflux	32.7	32.7	32.7	
Motor & Pump P - 1512 Stabilizer Reflux	32.7	32.7	32.7	
Motor & Pump P - 1513 Caustic Circulatin	32.5	32.5	32.5	
Motor & Pump P - 1514 Caustic Circulatin	32.5	32.5	32.5	
Motor & Pump P 120/121	39.4	39.4	39.4	
Motor & Pump P 1505 FRESH FEED PUMPS	33.4	33.4	33.4	
Motor & Pump P 1506 FRESH FEED PUMPS	32.8	32.8	32.8	
Motor & Pump P 1509 Chloride Injection P	40.5	40.5	40.5	
Motor & Pump P 1510 Chloride Injection P	40.5	40.5	40.5	
Motor & Pump P 1601 A	31.6	31.6	31.6	
Motor & Pump P 1601 B	31.5	31.5	31.5	
Motor & Pump P 1602 A	31.4	31.4	31.4	
Motor & Pump P 1602 B	31.5	31.5	31.5	
Motor & Pump P 211/212	28.1	28.1	28.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 215/214	23.9	23.9	23.9	
Motor & Pump P 216	34.4	34.4	34.4	
Motor & Pump P 217/218	25.3	25.3	25.3	
Motor & Pump P 300	37.7	37.7	37.7	
Motor & Pump P 301	44.3	44.3	44.3	
Motor & Pump P 302	40.6	40.6	40.6	
Motor & Pump P 303	42.3	42.3	42.3	
Motor & Pump P 305	42.7	42.7	42.7	
Motor & Pump P 306	54.8	54.8	54.8	
Motor & Pump P 307	47.1	47.1	47.1	
Motor & Pump P 309	45.5	45.5	45.5	
Motor & Pump P 312	37.9	37.9	37.9	
Motor & Pump P 313	39.1	39.1	39.1	
Motor & Pump P 315	40.9	40.9	40.9	
Motor & Pump P 316	46.6	46.6	46.6	
Motor & Pump P 317	47.7	47.7	47.7	
Motor & Pump P 318	38.0	38.0	38.0	
Motor & Pump P 319	35.5	35.5	35.5	
Motor & Pump P 327	59.4	59.4	59.4	
Motor & Pump P 328	58.7	58.7	58.7	
Motor & Pump P 329	59.0	59.0	59.0	
Motor & Pump P 451	26.9	26.9	26.9	
Motor & Pump P 453	26.6	26.6	26.6	
Motor & Pump P 454	26.4	26.4	26.4	
Motor & Pump P 457	21.8	21.8	21.8	
Motor & Pump P 458	27.0	27.0	27.0	
Motor & Pump P 459	26.4	26.4	26.4	
Motor & Pump P 56A/B	35.0	35.0	35.0	
Nitrogen Skid w Compressor 18-PK 1806	43.2	43.2	43.2	
P-060 A/B	20.4	20.4	20.4	
P-1101 A	19.7	19.7	19.7	
P-1103	19.6	19.6	19.6	
P-1105 A/B/C	19.1	19.1	19.1	
P-1800	23.7	23.7	23.7	
P-1801	18.6	18.6	18.6	
P-1802	15.4	15.4	15.4	
P-1803	12.3	12.3	12.3	
P-1804	24.0	24.0	24.0	
P-1805	23.9	23.9	23.9	
P-1806	28.2	28.2	28.2	
P-1809 A	26.3	26.3	26.3	
P-1810 A/B/C	14.4	14.4	14.4	
P-1811 A/B	24.3	24.3	24.3	
P-1811 A/B	24.0	24.0	24.0	
P-1847 A/B	29.5	29.5	29.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1849 A/B	29.0	29.0	29.0	
P-1853	36.3	36.3	36.3	
P-2 A/B	15.1	15.1	15.1	
P-251 A/B	34.3	34.3	34.3	
P-252 A/B	27.2	27.2	27.2	
P-253	28.0	28.0	28.0	
P-254 A/B	32.9	32.9	32.9	
P-255 A/B	33.2	33.2	33.2	
P-255 A/B	32.2	32.2	32.2	
P-256 A/B	32.0	32.0	32.0	
P-259 A/B	35.0	35.0	35.0	
P-260	33.6	33.6	33.6	
P-261 A/B	32.7	32.7	32.7	
P-262 A/B	36.2	36.2	36.2	
P-263 A/B	35.5	35.5	35.5	
P-270 A/B	20.6	20.6	20.6	
P-271 A/B	25.8	25.8	25.8	
P-272 A/B	30.4	30.4	30.4	
P-273 A/B	20.6	20.6	20.6	
P-275 A/B/C	27.2	27.2	27.2	
P-305	32.2	32.2	32.2	
P-306	32.9	32.9	32.9	
P-309	32.0	32.0	32.0	
P-328	32.4	32.4	32.4	
P-329	32.6	32.6	32.6	
P-353	33.2	33.2	33.2	
P-358 A/B	29.1	29.1	29.1	
P-359 A/B	19.1	19.1	19.1	
P-360 A/B	27.5	27.5	27.5	
P-361A	27.9	27.9	27.9	
P-371 A/B	33.0	33.0	33.0	
P-373 A/B	35.2	35.2	35.2	
P-374 A/B	34.8	34.8	34.8	
P-375 A/B	32.1	32.1	32.1	
P-376	35.0	35.0	35.0	
P-376 A/B	35.6	35.6	35.6	
P-377	34.9	34.9	34.9	
P-50 A/B	15.0	15.0	15.0	
P-51 A/B	13.4	13.4	13.4	
P-63	26.4	26.4	26.4	
P-70 A/B	19.9	19.9	19.9	
P-73 A/B	16.0	16.0	16.0	
Piping Furnace Tanks	8.2	8.2	8.2	
Piping Hydrogen Tanks Compressor	24.9	24.9	24.9	
Piping Hydrogen Tanks Compressor w NC	36.2	36.2	36.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Piping Hydrogen Tanks Compressorw NC	32.9	32.9	32.9	
Pre-Treat Train-Pre-Treat Outside Area E	28.6	28.6	28.6	
Pre-Treat Train-Pre-Treat Outside Area N	37.1	37.1	37.1	
Pre-Treat Train-Pre-Treat Outside Area N2	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area S	35.4	35.4	35.4	
Pre-Treat Train-Pre-Treat Outside Area S2	30.3	30.3	30.3	
Pre-Treat Train-Pre-Treat Outside Area W1	29.7	29.7	29.7	
Pre-Treat Train-Pre-Treat Outside Area W2	36.8	36.8	36.8	
Pre-Treat Train-Pre-Treat Outside Area W3	31.4	31.4	31.4	
Pre-Treat Train-Roof 01	36.4	36.4	36.4	
PSA Pipe 3" Lagging	13.9	13.9	13.9	
PSA Skid Additional Piping w NC	38.6	38.6	38.6	
Reformer-Burner Reformer East	38.2	38.2	38.2	
Reformer-Burner Reformer North	27.6	27.6	27.6	
Reformer-Burner Reformer South	20.7	20.7	20.7	
Reformer-Burner Reformer West	21.4	21.4	21.4	
Revised Renewable Fuels Delivery for Pre	16.5	17.5	17.5	
Revised Renewable Fuels Delivery for Pre	20.5	21.5	21.5	
RFG A from battery to process	25.7	25.7	25.7	
RFG A from battery to process w NC	30.9	30.9	30.9	
Stack Noise	35.7	35.7	35.7	
Steam Turbine-Facade 01	24.1	24.1	24.1	
Steam Turbine-Facade 02	16.5	16.5	16.5	
Steam Turbine-Facade 03	29.1	29.1	29.1	
Steam Turbine-Facade 04	27.1	27.1	27.1	
Steam Turbine-Roof 01	24.2	24.2	24.2	
Tank Farm Pump 1	26.0	26.0	26.0	
Tank Farm Pump 2	25.4	25.4	25.4	
Tank Farm Pump 3	27.6	27.6	27.6	
UP Train Locomotive Delivery and Pickup 2022 2x	58.7		67.5	
XF-1502 Splitter Area 1	37.0	37.0	37.0	
XF-1502 Splitter Area 2	35.2	35.2	35.2	
XF-1504 Splitter Area 1	37.0	37.0	37.0	
XF-1504 Splitter Area 2	35.1	35.1	35.1	
XF - 1601	31.8	31.8	31.8	
XF - 1602	31.6	31.6	31.6	
XF 251, 250, 271, 270	34.0	34.0	34.0	
XF 260, 261A, 261 B	35.2	35.2	35.2	
XF 304, XF 321	53.2	53.2	53.2	
XF 313, XF 314	53.4	53.4	53.4	
XF 335-1, XF 335-2	56.9	56.9	56.9	
XF 353A/B	27.5	27.5	27.5	
XF 353A/B	24.4	24.4	24.4	
XF 354A/B	29.2	29.2	29.2	
XF 503	47.5	47.5	47.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF Module 1510	39.7	39.7	39.7	
XF Module 1519	39.9	39.9	39.9	
Receiver W-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 65.1 dB(A)	Ld 7-19 dB(A)	Leq,N 65.1 dB(A)	Le 19-2
ID Fan Motor	28.4	28.4	28.4	
18-1855 A/B	21.0	21.0	21.0	
18-1856 A/B	22.3	22.3	22.3	
18-1857 A/B	26.3	26.3	26.3	
18-1858 A/B	26.8	26.8	26.8	
18-PK 1802 Air Compressor Package	34.0	34.0	34.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	39.6		42.3	
Air Compressor C 1	41.7	41.7	41.7	
Air Compressor Pump	20.1	20.1	20.1	
Blower F 401	46.7	46.7	46.7	
Boiler Crude Unit-Heater Opening	14.7	14.7	14.7	
Boiler Feed Water Pump A	25.0	25.0	25.0	
Boiler Feed Water Pump B	31.6	31.6	31.6	
C-270 A	35.7	35.7	35.7	
C-270 B	37.7	37.7	37.7	
C-270 C	36.3	36.3	36.3	
C-301 Compressor	32.6	32.6	32.6	
C-301 Motor	33.2	33.2	33.2	
C-351 Compressor	34.7	34.7	34.7	
C-351 Motor	32.2	32.2	32.2	
C370 A Motor	31.6	31.6	31.6	
C370 B Motor	41.2	41.2	41.2	
C370A	35.8	35.8	35.8	
C370B	40.5	40.5	40.5	
Cars Pumping 6 times in during delivery	36.3		45.1	
Compressor House C301, C302, C 124-Comp House East 1	23.3	23.3	23.3	
Compressor House C301, C302, C 124-Comp House East 2	27.7	27.7	27.7	
Compressor House C301, C302, C 124-Comp House North	49.5	49.5	49.5	
Compressor House C301, C302, C 124-Comp House South 1	28.3	28.3	28.3	
Compressor House C301, C302, C 124-Comp House South 2	22.4	22.4	22.4	
Compressor House C301, C302, C 124-Comp House West	38.9	38.9	38.9	
Construction / Renewable Fuels Truck Tr	28.1	28.1	28.1	
Cooling Tower CT 510-CT 510 East Side	21.8	21.8	21.8	
Cooling Tower CT 510-CT 510 West Side	38.8	38.8	38.8	
Cooling Tower CT 511-CT 511 East Side	27.7	27.7	27.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower CT 511-CT 511 West Side	35.3	35.3	35.3	
Cooling Tower M 512	27.6	27.6	27.6	
Cooling Tower M 513	36.1	36.1	36.1	
Cooling Tower M 514	25.8	25.8	25.8	
Crude Operatoin Truck Truck Traffic	27.3	28.3	28.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	27.8	27.8	27.8	
FD Fan Assembly-FD Fan - East	24.9	24.9	24.9	
FD Fan Assembly-FD Fan - North	27.6	27.6	27.6	
FD Fan Assembly-FD Fan - Roof	27.5	27.5	27.5	
FD Fan Assembly-FD Fan - South	25.7	25.7	25.7	
FD Fan Assembly-FD Fan - West	30.7	30.7	30.7	
FD Motor	20.9	20.9	20.9	
Feed Compressor-A Compressor	38.6	38.6	38.6	
Feed Compressor-A Motor	29.8	29.8	29.8	
Feed Compressor-B Compressor	40.7	40.7	40.7	
Feed Compressor -B Motor	39.5	39.5	39.5	
H2S Compressor 18-C-271	48.0	48.0	48.0	
Heater # 5-Heater	9.9	9.9	9.9	
Heater # 5-Heater	9.0	9.0	9.0	
Heater # 5-Heater	10.6	10.6	10.6	
Hydro Heater H-402	28.0	28.0	28.0	
ID Fan-ID Fan - East (128302)	15.0	15.0	15.0	
ID Fan-ID Fan - East 1 (128306)	14.7	14.7	14.7	
ID Fan-ID Fan - North	23.0	23.0	23.0	
ID Fan-ID Fan - North 2	20.2	20.2	20.2	
ID Fan-ID Fan - South	17.8	17.8	17.8	
ID Fan-ID Fan - South 2	21.4	21.4	21.4	
ID Fan-ID Fan Roof 01 (128293)	23.6	23.6	23.6	
Motor & Pump P - 1502 Splitter Reflux Pu	29.2	29.2	29.2	
Motor & Pump P - 1503 Splitter Bottoms P	28.6	28.6	28.6	
Motor & Pump P - 1504 Splitter Bottoms P	29.7	29.7	29.7	
Motor & Pump P - 1507 Reactor Pump	27.9	27.9	27.9	
Motor & Pump P - 1508 Reactor Pump	29.4	29.4	29.4	
Motor & Pump P - 1511 Stabilizer Reflux	33.4	33.4	33.4	
Motor & Pump P - 1512 Stabilizer Reflux	34.2	34.2	34.2	
Motor & Pump P - 1513 Caustic Circulatin	36.4	36.4	36.4	
Motor & Pump P - 1514 Caustic Circulatin	35.5	35.5	35.5	
Motor & Pump P 120/121	38.4	38.4	38.4	
Motor & Pump P 1505 FRESH FEED PUMPS	30.6	30.6	30.6	
Motor & Pump P 1506 FRESH FEED PUMPS	28.6	28.6	28.6	
Motor & Pump P 1509 Chloride Injection P	27.9	27.9	27.9	
Motor & Pump P 1510 Chloride Injection P	31.3	31.3	31.3	
Motor & Pump P 1601 A	34.7	34.7	34.7	
Motor & Pump P 1601 B	35.2	35.2	35.2	
Motor & Pump P 1602 A	35.2	35.2	35.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1602 B	35.6	35.6	35.6	
Motor & Pump P 211/212	19.0	19.0	19.0	
Motor & Pump P 215/214	20.1	20.1	20.1	
Motor & Pump P 216	23.1	23.1	23.1	
Motor & Pump P 217/218	18.4	18.4	18.4	
Motor & Pump P 300	41.3	41.3	41.3	
Motor & Pump P 301	46.2	46.2	46.2	
Motor & Pump P 302	40.6	40.6	40.6	
Motor & Pump P 303	40.2	40.2	40.2	
Motor & Pump P 305	39.0	39.0	39.0	
Motor & Pump P 306	56.2	56.2	56.2	
Motor & Pump P 307	43.5	43.5	43.5	
Motor & Pump P 309	42.6	42.6	42.6	
Motor & Pump P 312	46.0	46.0	46.0	
Motor & Pump P 313	45.0	45.0	45.0	
Motor & Pump P 315	40.8	40.8	40.8	
Motor & Pump P 316	43.1	43.1	43.1	
Motor & Pump P 317	41.3	41.3	41.3	
Motor & Pump P 318	38.9	38.9	38.9	
Motor & Pump P 319	40.8	40.8	40.8	
Motor & Pump P 327	56.9	56.9	56.9	
Motor & Pump P 328	56.3	56.3	56.3	
Motor & Pump P 329	57.1	57.1	57.1	
Motor & Pump P 451	30.6	30.6	30.6	
Motor & Pump P 453	30.3	30.3	30.3	
Motor & Pump P 454	30.5	30.5	30.5	
Motor & Pump P 457	30.2	30.2	30.2	
Motor & Pump P 458	30.4	30.4	30.4	
Motor & Pump P 459	27.2	27.2	27.2	
Motor & Pump P 56A/B	36.3	36.3	36.3	
Nitrogen Skid w Compressor 18-PK 1806	44.0	44.0	44.0	
P-060 A/B	28.0	28.0	28.0	
P-1101 A	19.0	19.0	19.0	
P-1103	18.9	18.9	18.9	
P-1105 A/B/C	20.7	20.7	20.7	
P-1800	17.7	17.7	17.7	
P-1801	23.7	23.7	23.7	
P-1802	23.8	23.8	23.8	
P-1803	12.2	12.2	12.2	
P-1804	30.0	30.0	30.0	
P-1805	27.1	27.1	27.1	
P-1806	30.1	30.1	30.1	
P-1809 A	22.2	22.2	22.2	
P-1810 A/B/C	14.9	14.9	14.9	
P-1811 A/B	32.2	32.2	32.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1811 A/B	27.3	27.3	27.3	
P-1847 A/B	19.7	19.7	19.7	
P-1849 A/B	19.5	19.5	19.5	
P-1853	22.5	22.5	22.5	
P-2 A/B	16.0	16.0	16.0	
P-251 A/B	26.2	26.2	26.2	
P-252 A/B	26.7	26.7	26.7	
P-253	26.9	26.9	26.9	
P-254 A/B	29.3	29.3	29.3	
P-255 A/B	29.1	29.1	29.1	
P-255 A/B	23.1	23.1	23.1	
P-256 A/B	26.2	26.2	26.2	
P-259 A/B	23.3	23.3	23.3	
P-260	26.7	26.7	26.7	
P-261 A/B	18.2	18.2	18.2	
P-262 A/B	21.3	21.3	21.3	
P-263 A/B	23.9	23.9	23.9	
P-270 A/B	22.9	22.9	22.9	
P-271 A/B	28.6	28.6	28.6	
P-272 A/B	28.3	28.3	28.3	
P-273 A/B	22.5	22.5	22.5	
P-275 A/B/C	19.8	19.8	19.8	
P-305	25.2	25.2	25.2	
P-306	30.3	30.3	30.3	
P-309	25.2	25.2	25.2	
P-328	31.1	31.1	31.1	
P-329	31.3	31.3	31.3	
P-353	30.3	30.3	30.3	
P-358 A/B	23.3	23.3	23.3	
P-359 A/B	15.4	15.4	15.4	
P-360 A/B	20.0	20.0	20.0	
P-361A	29.2	29.2	29.2	
P-371 A/B	26.8	26.8	26.8	
P-373 A/B	26.6	26.6	26.6	
P-374 A/B	29.7	29.7	29.7	
P-375 A/B	25.8	25.8	25.8	
P-376	25.0	25.0	25.0	
P-376 A/B	25.7	25.7	25.7	
P-377	25.4	25.4	25.4	
P-50 A/B	27.2	27.2	27.2	
P-51 A/B	11.1	11.1	11.1	
P-63	16.0	16.0	16.0	
P-70 A/B	10.4	10.4	10.4	
P-73 A/B	14.0	14.0	14.0	
Piping Furnace Tanks	12.2	12.2	12.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Piping Hydrogen Tanks Compressor	25.5	25.5	25.5	
Piping Hydrogen Tanks Compressor w NC	36.2	36.2	36.2	
Piping Hydrogen Tanks Compressorw NC	32.5	32.5	32.5	
Pre-Treat Train-Pre-Treat Outside Area E	22.9	22.9	22.9	
Pre-Treat Train-Pre-Treat Outside Area N	38.7	38.7	38.7	
Pre-Treat Train-Pre-Treat Outside Area N2	29.3	29.3	29.3	
Pre-Treat Train-Pre-Treat Outside Area S	27.0	27.0	27.0	
Pre-Treat Train-Pre-Treat Outside Area S2	21.8	21.8	21.8	
Pre-Treat Train-Pre-Treat Outside Area W1	26.3	26.3	26.3	
Pre-Treat Train-Pre-Treat Outside Area W2	31.0	31.0	31.0	
Pre-Treat Train-Pre-Treat Outside Area W3	26.7	26.7	26.7	
Pre-Treat Train-Roof 01	38.3	38.3	38.3	
PSA Pipe 3" Lagging	16.7	16.7	16.7	
PSA Skid Additional Piping w NC	38.6	38.6	38.6	
Reformer-Burner Reformer East	35.6	35.6	35.6	
Reformer-Burner Reformer North	30.0	30.0	30.0	
Reformer-Burner Reformer South	18.5	18.5	18.5	
Reformer-Burner Reformer West	22.5	22.5	22.5	
Revised Renewable Fuels Delivery for Pre	9.4	10.4	10.4	
Revised Renewable Fuels Delivery for Pre	14.4	15.4	15.4	
RFG A from battery to process	25.4	25.4	25.4	
RFG A from battery to process w NC	30.7	30.7	30.7	
Stack Noise	36.7	36.7	36.7	
Steam Turbine-Facade 01	22.1	22.1	22.1	
Steam Turbine-Facade 02	14.1	14.1	14.1	
Steam Turbine-Facade 03	22.9	22.9	22.9	
Steam Turbine-Facade 04	26.9	26.9	26.9	
Steam Turbine-Roof 01	22.5	22.5	22.5	
Tank Farm Pump 1	16.3	16.3	16.3	
Tank Farm Pump 2	19.1	19.1	19.1	
Tank Farm Pump 3	19.5	19.5	19.5	
UP Train Locomotive Delivery and Pickup 2022 2x	43.0		51.8	
XF-1502 Splitter Area 1	40.8	40.8	40.8	
XF-1502 Splitter Area 2	37.5	37.5	37.5	
XF-1504 Splitter Area 1	39.6	39.6	39.6	
XF-1504 Splitter Area 2	39.8	39.8	39.8	
XF - 1601	36.0	36.0	36.0	
XF - 1602	34.7	34.7	34.7	
XF 251, 250, 271, 270	34.0	34.0	34.0	
XF 260, 261A, 261 B	26.5	26.5	26.5	
XF 304, XF 321	49.5	49.5	49.5	
XF 313, XF 314	52.4	52.4	52.4	
XF 335-1, XF 335-2	53.5	53.5	53.5	
XF 353A/B	25.3	25.3	25.3	
XF 353A/B	25.5	25.5	25.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 354A/B	27.5	27.5	27.5	
XF 503	47.2	47.2	47.2	
XF Module 1510	43.1	43.1	43.1	
XF Module 1519	42.7	42.7	42.7	
Receiver W-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 60.4 dB(A)	Ld 7-19 dB(A)	Leq,N 60.4 dB(A)	Le 19-2
ID Fan Motor	25.3	25.3	25.3	
18-1855 A/B	18.5	18.5	18.5	
18-1856 A/B	20.3	20.3	20.3	
18-1857 A/B	25.0	25.0	25.0	
18-1858 A/B	25.7	25.7	25.7	
18-PK 1802 Air Compressor Package	31.0	31.0	31.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	39.3		42.0	
Air Compressor C 1	40.3	40.3	40.3	
Air Compressor Pump	20.0	20.0	20.0	
Blower F 401	43.4	43.4	43.4	
Boiler Crude Unit-Heater Opening	20.1	20.1	20.1	
Boiler Feed Water Pump A	16.9	16.9	16.9	
Boiler Feed Water Pump B	17.5	17.5	17.5	
C-270 A	37.3	37.3	37.3	
C-270 B	37.2	37.2	37.2	
C-270 C	36.4	36.4	36.4	
C-301 Compressor	36.4	36.4	36.4	
C-301 Motor	37.2	37.2	37.2	
C-351 Compressor	37.4	37.4	37.4	
C-351 Motor	36.6	36.6	36.6	
C370 A Motor	38.1	38.1	38.1	
C370 B Motor	42.9	42.9	42.9	
C370A	37.4	37.4	37.4	
C370B	37.5	37.5	37.5	
Cars Pumping 6 times in during delivery	37.8		46.5	
Compressor House C301, C302, C 124-Comp House East 1	24.1	24.1	24.1	
Compressor House C301, C302, C 124-Comp House East 2	27.0	27.0	27.0	
Compressor House C301, C302, C 124-Comp House North	48.3	48.3	48.3	
Compressor House C301, C302, C 124-Comp House South 1	30.0	30.0	30.0	
Compressor House C301, C302, C 124-Comp House South 2	20.4	20.4	20.4	
Compressor House C301, C302, C 124-Comp House West	43.7	43.7	43.7	
Construction / Renewable Fuels Truck Tr	27.8	27.8	27.8	
Cooling Tower CT 510-CT 510 East Side	15.6	15.6	15.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower CT 510-CT 510 West Side	33.5	33.5	33.5	
Cooling Tower CT 511-CT 511 East Side	34.1	34.1	34.1	
Cooling Tower CT 511-CT 511 West Side	37.0	37.0	37.0	
Cooling Tower M 512	18.1	18.1	18.1	
Cooling Tower M 513	16.6	16.6	16.6	
Cooling Tower M 514	17.7	17.7	17.7	
Crude Operatoin Truck Truck Traffic	29.4	30.4	30.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	23.8	23.8	23.8	
FD Fan Assembly-FD Fan - East	23.0	23.0	23.0	
FD Fan Assembly-FD Fan - North	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - Roof	27.7	27.7	27.7	
FD Fan Assembly-FD Fan - South	20.7	20.7	20.7	
FD Fan Assembly-FD Fan - West	29.5	29.5	29.5	
FD Motor	19.8	19.8	19.8	
Feed Compressor-A Compressor	36.5	36.5	36.5	
Feed Compressor-A Motor	33.8	33.8	33.8	
Feed Compressor-B Compressor	32.9	32.9	32.9	
Feed Compressor -B Motor	34.4	34.4	34.4	
H2S Compressor 18-C-271	35.4	35.4	35.4	
Heater # 5-Heater	11.3	11.3	11.3	
Heater # 5-Heater	12.5	12.5	12.5	
Heater # 5-Heater	14.4	14.4	14.4	
Hydro Heater H-402	33.0	33.0	33.0	
ID Fan-ID Fan - East (128302)	14.0	14.0	14.0	
ID Fan-ID Fan - East 1 (128306)	15.2	15.2	15.2	
ID Fan-ID Fan - North	24.1	24.1	24.1	
ID Fan-ID Fan - North 2	23.2	23.2	23.2	
ID Fan-ID Fan - South	18.4	18.4	18.4	
ID Fan-ID Fan - South 2	18.7	18.7	18.7	
ID Fan-ID Fan Roof 01 (128293)	25.9	25.9	25.9	
Motor & Pump P - 1502 Splitter Reflux Pu	23.1	23.1	23.1	
Motor & Pump P - 1503 Splitter Bottoms P	25.6	25.6	25.6	
Motor & Pump P - 1504 Splitter Bottoms P	25.0	25.0	25.0	
Motor & Pump P - 1507 Reactor Pump	22.1	22.1	22.1	
Motor & Pump P - 1508 Reactor Pump	20.9	20.9	20.9	
Motor & Pump P - 1511 Stabilizer Reflux	26.2	26.2	26.2	
Motor & Pump P - 1512 Stabilizer Reflux	24.0	24.0	24.0	
Motor & Pump P - 1513 Caustic Circulatin	30.1	30.1	30.1	
Motor & Pump P - 1514 Caustic Circulatin	29.3	29.3	29.3	
Motor & Pump P 120/121	31.3	31.3	31.3	
Motor & Pump P 1505 FRESH FEED PUMPS	27.1	27.1	27.1	
Motor & Pump P 1506 FRESH FEED PUMPS	22.3	22.3	22.3	
Motor & Pump P 1509 Chloride Injection P	32.2	32.2	32.2	
Motor & Pump P 1510 Chloride Injection P	32.3	32.3	32.3	
Motor & Pump P 1601 A	29.2	29.2	29.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1601 B	29.6	29.6	29.6	
Motor & Pump P 1602 A	26.9	26.9	26.9	
Motor & Pump P 1602 B	20.0	20.0	20.0	
Motor & Pump P 211/212	19.8	19.8	19.8	
Motor & Pump P 215/214	26.1	26.1	26.1	
Motor & Pump P 216	24.1	24.1	24.1	
Motor & Pump P 217/218	21.0	21.0	21.0	
Motor & Pump P 300	30.1	30.1	30.1	
Motor & Pump P 301	33.4	33.4	33.4	
Motor & Pump P 302	30.7	30.7	30.7	
Motor & Pump P 303	33.9	33.9	33.9	
Motor & Pump P 305	35.8	35.8	35.8	
Motor & Pump P 306	49.7	49.7	49.7	
Motor & Pump P 307	38.8	38.8	38.8	
Motor & Pump P 309	37.2	37.2	37.2	
Motor & Pump P 312	43.7	43.7	43.7	
Motor & Pump P 313	43.2	43.2	43.2	
Motor & Pump P 315	44.3	44.3	44.3	
Motor & Pump P 316	42.7	42.7	42.7	
Motor & Pump P 317	42.6	42.6	42.6	
Motor & Pump P 318	42.2	42.2	42.2	
Motor & Pump P 319	41.9	41.9	41.9	
Motor & Pump P 327	44.8	44.8	44.8	
Motor & Pump P 328	48.7	48.7	48.7	
Motor & Pump P 329	47.8	47.8	47.8	
Motor & Pump P 451	22.7	22.7	22.7	
Motor & Pump P 453	26.3	26.3	26.3	
Motor & Pump P 454	23.8	23.8	23.8	
Motor & Pump P 457	30.2	30.2	30.2	
Motor & Pump P 458	22.9	22.9	22.9	
Motor & Pump P 459	22.9	22.9	22.9	
Motor & Pump P 56A/B	27.6	27.6	27.6	
Nitrogen Skid w Compressor 18-PK 1806	44.9	44.9	44.9	
P-060 A/B	18.4	18.4	18.4	
P-1101 A	15.1	15.1	15.1	
P-1103	13.7	13.7	13.7	
P-1105 A/B/C	15.9	15.9	15.9	
P-1800	21.4	21.4	21.4	
P-1801	12.0	12.0	12.0	
P-1802	8.7	8.7	8.7	
P-1803	14.4	14.4	14.4	
P-1804	13.9	13.9	13.9	
P-1805	13.7	13.7	13.7	
P-1806	27.7	27.7	27.7	
P-1809 A	21.3	21.3	21.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1810 A/B/C	13.5	13.5	13.5	
P-1811 A/B	27.5	27.5	27.5	
P-1811 A/B	14.3	14.3	14.3	
P-1847 A/B	19.4	19.4	19.4	
P-1849 A/B	19.8	19.8	19.8	
P-1853	28.6	28.6	28.6	
P-2 A/B	13.9	13.9	13.9	
P-251 A/B	23.6	23.6	23.6	
P-252 A/B	24.2	24.2	24.2	
P-253	22.5	22.5	22.5	
P-254 A/B	22.8	22.8	22.8	
P-255 A/B	25.1	25.1	25.1	
P-255 A/B	23.6	23.6	23.6	
P-256 A/B	22.8	22.8	22.8	
P-259 A/B	27.0	27.0	27.0	
P-260	23.4	23.4	23.4	
P-261 A/B	22.6	22.6	22.6	
P-262 A/B	24.4	24.4	24.4	
P-263 A/B	17.7	17.7	17.7	
P-270 A/B	30.0	30.0	30.0	
P-271 A/B	22.7	22.7	22.7	
P-272 A/B	26.6	26.6	26.6	
P-273 A/B	30.1	30.1	30.1	
P-275 A/B/C	29.9	29.9	29.9	
P-305	29.4	29.4	29.4	
P-306	24.4	24.4	24.4	
P-309	29.4	29.4	29.4	
P-328	18.7	18.7	18.7	
P-329	18.7	18.7	18.7	
P-353	24.1	24.1	24.1	
P-358 A/B	22.5	22.5	22.5	
P-359 A/B	29.9	29.9	29.9	
P-360 A/B	19.7	19.7	19.7	
P-361A	19.8	19.8	19.8	
P-371 A/B	21.8	21.8	21.8	
P-373 A/B	22.5	22.5	22.5	
P-374 A/B	21.0	21.0	21.0	
P-375 A/B	20.5	20.5	20.5	
P-376	20.8	20.8	20.8	
P-376 A/B	32.7	32.7	32.7	
P-377	20.5	20.5	20.5	
P-50 A/B	13.8	13.8	13.8	
P-51 A/B	9.9	9.9	9.9	
P-63	20.8	20.8	20.8	
P-70 A/B	10.0	10.0	10.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-73 A/B	12.9	12.9	12.9	
Piping Furnace Tanks	9.3	9.3	9.3	
Piping Hydrogen Tanks Compressor	20.9	20.9	20.9	
Piping Hydrogen Tanks Compressor w NC	37.4	37.4	37.4	
Piping Hydrogen Tanks Compressorw NC	33.5	33.5	33.5	
Pre-Treat Train-Pre-Treat Outside Area E	23.1	23.1	23.1	
Pre-Treat Train-Pre-Treat Outside Area N	39.1	39.1	39.1	
Pre-Treat Train-Pre-Treat Outside Area N2	31.2	31.2	31.2	
Pre-Treat Train-Pre-Treat Outside Area S	27.7	27.7	27.7	
Pre-Treat Train-Pre-Treat Outside Area S2	17.0	17.0	17.0	
Pre-Treat Train-Pre-Treat Outside Area W1	30.6	30.6	30.6	
Pre-Treat Train-Pre-Treat Outside Area W2	34.1	34.1	34.1	
Pre-Treat Train-Pre-Treat Outside Area W3	25.9	25.9	25.9	
Pre-Treat Train-Roof 01	42.0	42.0	42.0	
PSA Pipe 3" Lagging	13.9	13.9	13.9	
PSA Skid Additional Piping w NC	40.1	40.1	40.1	
Reformer-Burner Reformer East	30.1	30.1	30.1	
Reformer-Burner Reformer North	25.6	25.6	25.6	
Reformer-Burner Reformer South	17.3	17.3	17.3	
Reformer-Burner Reformer West	17.9	17.9	17.9	
Revised Renewable Fuels Delivery for Pre	7.5	8.5	8.5	
Revised Renewable Fuels Delivery for Pre	14.4	15.4	15.4	
RFG A from battery to process	21.8	21.8	21.8	
RFG A from battery to process w NC	31.1	31.1	31.1	
Stack Noise	36.4	36.4	36.4	
Steam Turbine-Facade 01	16.2	16.2	16.2	
Steam Turbine-Facade 02	11.0	11.0	11.0	
Steam Turbine-Facade 03	17.5	17.5	17.5	
Steam Turbine-Facade 04	17.5	17.5	17.5	
Steam Turbine-Roof 01	23.6	23.6	23.6	
Tank Farm Pump 1	20.4	20.4	20.4	
Tank Farm Pump 2	18.1	18.1	18.1	
Tank Farm Pump 3	20.1	20.1	20.1	
UP Train Locomotive Delivery and Pickup 2022 2x	37.3		46.0	
XF-1502 Splitter Area 1	36.1	36.1	36.1	
XF-1502 Splitter Area 2	38.8	38.8	38.8	
XF-1504 Splitter Area 1	35.9	35.9	35.9	
XF-1504 Splitter Area 2	35.7	35.7	35.7	
XF - 1601	32.4	32.4	32.4	
XF - 1602	32.1	32.1	32.1	
XF 251, 250, 271, 270	31.0	31.0	31.0	
XF 260, 261A, 261 B	31.6	31.6	31.6	
XF 304, XF 321	45.8	45.8	45.8	
XF 313, XF 314	48.8	48.8	48.8	
XF 335-1, XF 335-2	49.7	49.7	49.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 353A/B	24.8	24.8	24.8	
XF 353A/B	25.1	25.1	25.1	
XF 354A/B	23.8	23.8	23.8	
XF 503	46.8	46.8	46.8	
XF Module 1510	40.9	40.9	40.9	
XF Module 1519	43.2	43.2	43.2	
Receiver N-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 60.2 dB(A)	Ld 7-19 dB(A)	Leq,N 60.1 dB(A)	Le 19-2
ID Fan Motor	26.4	26.4	26.4	
18-1855 A/B	19.6	19.6	19.6	
18-1856 A/B	18.8	18.8	18.8	
18-1857 A/B	22.1	22.1	22.1	
18-1858 A/B	22.0	22.0	22.0	
18-PK 1802 Air Compressor Package	27.6	27.6	27.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	39.1		41.9	
Air Compressor C 1	45.5	45.5	45.5	
Air Compressor Pump	18.2	18.2	18.2	
Blower F 401	49.0	49.0	49.0	
Boiler Crude Unit-Heater Opening	20.8	20.8	20.8	
Boiler Feed Water Pump A	21.3	21.3	21.3	
Boiler Feed Water Pump B	21.4	21.4	21.4	
C-270 A	34.6	34.6	34.6	
C-270 B	36.1	36.1	36.1	
C-270 C	37.7	37.7	37.7	
C-301 Compressor	32.6	32.6	32.6	
C-301 Motor	30.6	30.6	30.6	
C-351 Compressor	30.1	30.1	30.1	
C-351 Motor	32.3	32.3	32.3	
C370 A Motor	40.2	40.2	40.2	
C370 B Motor	39.7	39.7	39.7	
C370A	38.9	38.9	38.9	
C370B	34.4	34.4	34.4	
Cars Pumping 6 times in during delivery	36.7		45.5	
Compressor House C301, C302, C 124-Comp House East 1	22.2	22.2	22.2	
Compressor House C301, C302, C 124-Comp House East 2	29.8	29.8	29.8	
Compressor House C301, C302, C 124-Comp House North	42.3	42.3	42.3	
Compressor House C301, C302, C 124-Comp House South 1	27.3	27.3	27.3	
Compressor House C301, C302, C 124-Comp House South 2	18.4	18.4	18.4	
Compressor House C301, C302, C 124-Comp House West	39.7	39.7	39.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Construction / Renewable Fuels Truck Tr	31.2	31.2	31.2	
Cooling Tower CT 510-CT 510 East Side	24.2	24.2	24.2	
Cooling Tower CT 510-CT 510 West Side	35.5	35.5	35.5	
Cooling Tower CT 511-CT 511 East Side	36.8	36.8	36.8	
Cooling Tower CT 511-CT 511 West Side	44.0	44.0	44.0	
Cooling Tower M 512	18.5	18.5	18.5	
Cooling Tower M 513	18.7	18.7	18.7	
Cooling Tower M 514	18.6	18.6	18.6	
Crude Operatoin Truck Truck Traffic	34.0	34.9	34.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	20.8	20.8	20.8	
FD Fan Assembly-FD Fan - East	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - North	26.1	26.1	26.1	
FD Fan Assembly-FD Fan - Roof	28.5	28.5	28.5	
FD Fan Assembly-FD Fan - South	23.3	23.3	23.3	
FD Fan Assembly-FD Fan - West	32.3	32.3	32.3	
FD Motor	21.4	21.4	21.4	
Feed Compressor-A Compressor	32.3	32.3	32.3	
Feed Compressor-A Motor	31.4	31.4	31.4	
Feed Compressor-B Compressor	32.9	32.9	32.9	
Feed Compressor -B Motor	32.4	32.4	32.4	
H2S Compressor 18-C-271	37.5	37.5	37.5	
Heater # 5-Heater	12.0	12.0	12.0	
Heater # 5-Heater	13.5	13.5	13.5	
Heater # 5-Heater	15.8	15.8	15.8	
Hydro Heater H-402	29.1	29.1	29.1	
ID Fan-ID Fan - East (128302)	15.7	15.7	15.7	
ID Fan-ID Fan - East 1 (128306)	17.4	17.4	17.4	
ID Fan-ID Fan - North	27.5	27.5	27.5	
ID Fan-ID Fan - North 2	24.6	24.6	24.6	
ID Fan-ID Fan - South	20.5	20.5	20.5	
ID Fan-ID Fan - South 2	20.6	20.6	20.6	
ID Fan-ID Fan Roof 01 (128293)	28.6	28.6	28.6	
Motor & Pump P - 1502 Splitter Reflux Pu	35.7	35.7	35.7	
Motor & Pump P - 1503 Splitter Bottoms P	37.7	37.7	37.7	
Motor & Pump P - 1504 Splitter Bottoms P	37.3	37.3	37.3	
Motor & Pump P - 1507 Reactor Pump	31.3	31.3	31.3	
Motor & Pump P - 1508 Reactor Pump	32.4	32.4	32.4	
Motor & Pump P - 1511 Stabilizer Reflux	36.8	36.8	36.8	
Motor & Pump P - 1512 Stabilizer Reflux	36.6	36.6	36.6	
Motor & Pump P - 1513 Caustic Circulatin	37.2	37.2	37.2	
Motor & Pump P - 1514 Caustic Circulatin	36.1	36.1	36.1	
Motor & Pump P 120/121	33.9	33.9	33.9	
Motor & Pump P 1505 FRESH FEED PUMPS	27.5	27.5	27.5	
Motor & Pump P 1506 FRESH FEED PUMPS	28.1	28.1	28.1	
Motor & Pump P 1509 Chloride Injection P	36.9	36.9	36.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1510 Chloride Injection P	36.9	36.9	36.9	
Motor & Pump P 1601 A	36.1	36.1	36.1	
Motor & Pump P 1601 B	35.8	35.8	35.8	
Motor & Pump P 1602 A	35.6	35.6	35.6	
Motor & Pump P 1602 B	36.5	36.5	36.5	
Motor & Pump P 211/212	19.2	19.2	19.2	
Motor & Pump P 215/214	21.6	21.6	21.6	
Motor & Pump P 216	19.2	19.2	19.2	
Motor & Pump P 217/218	19.4	19.4	19.4	
Motor & Pump P 300	33.0	33.0	33.0	
Motor & Pump P 301	37.6	37.6	37.6	
Motor & Pump P 302	33.2	33.2	33.2	
Motor & Pump P 303	33.4	33.4	33.4	
Motor & Pump P 305	33.9	33.9	33.9	
Motor & Pump P 306	44.8	44.8	44.8	
Motor & Pump P 307	36.9	36.9	36.9	
Motor & Pump P 309	33.6	33.6	33.6	
Motor & Pump P 312	35.8	35.8	35.8	
Motor & Pump P 313	34.5	34.5	34.5	
Motor & Pump P 315	33.5	33.5	33.5	
Motor & Pump P 316	32.7	32.7	32.7	
Motor & Pump P 317	32.2	32.2	32.2	
Motor & Pump P 318	29.4	29.4	29.4	
Motor & Pump P 319	31.0	31.0	31.0	
Motor & Pump P 327	42.1	42.1	42.1	
Motor & Pump P 328	45.6	45.6	45.6	
Motor & Pump P 329	44.6	44.6	44.6	
Motor & Pump P 451	23.0	23.0	23.0	
Motor & Pump P 453	19.7	19.7	19.7	
Motor & Pump P 454	22.5	22.5	22.5	
Motor & Pump P 457	19.9	19.9	19.9	
Motor & Pump P 458	20.5	20.5	20.5	
Motor & Pump P 459	22.5	22.5	22.5	
Motor & Pump P 56A/B	21.3	21.3	21.3	
Nitrogen Skid w Compressor 18-PK 1806	50.5	50.5	50.5	
P-060 A/B	19.1	19.1	19.1	
P-1101 A	15.2	15.2	15.2	
P-1103	15.4	15.4	15.4	
P-1105 A/B/C	14.8	14.8	14.8	
P-1800	16.0	16.0	16.0	
P-1801	9.9	9.9	9.9	
P-1802	9.7	9.7	9.7	
P-1803	12.9	12.9	12.9	
P-1804	15.4	15.4	15.4	
P-1805	14.7	14.7	14.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1806	18.2	18.2	18.2	
P-1809 A	20.7	20.7	20.7	
P-1810 A/B/C	11.9	11.9	11.9	
P-1811 A/B	18.3	18.3	18.3	
P-1811 A/B	15.1	15.1	15.1	
P-1847 A/B	20.3	20.3	20.3	
P-1849 A/B	20.3	20.3	20.3	
P-1853	31.4	31.4	31.4	
P-2 A/B	20.7	20.7	20.7	
P-251 A/B	26.9	26.9	26.9	
P-252 A/B	29.9	29.9	29.9	
P-253	29.8	29.8	29.8	
P-254 A/B	30.1	30.1	30.1	
P-255 A/B	31.8	31.8	31.8	
P-255 A/B	27.9	27.9	27.9	
P-256 A/B	27.6	27.6	27.6	
P-259 A/B	27.2	27.2	27.2	
P-260	27.3	27.3	27.3	
P-261 A/B	20.6	20.6	20.6	
P-262 A/B	27.1	27.1	27.1	
P-263 A/B	27.0	27.0	27.0	
P-270 A/B	25.0	25.0	25.0	
P-271 A/B	29.5	29.5	29.5	
P-272 A/B	29.6	29.6	29.6	
P-273 A/B	25.2	25.2	25.2	
P-275 A/B/C	28.6	28.6	28.6	
P-305	30.4	30.4	30.4	
P-306	25.7	25.7	25.7	
P-309	30.5	30.5	30.5	
P-328	21.2	21.2	21.2	
P-329	25.7	25.7	25.7	
P-353	19.9	19.9	19.9	
P-358 A/B	14.5	14.5	14.5	
P-359 A/B	18.2	18.2	18.2	
P-360 A/B	17.2	17.2	17.2	
P-361A	19.3	19.3	19.3	
P-371 A/B	26.2	26.2	26.2	
P-373 A/B	38.9	38.9	38.9	
P-374 A/B	36.6	36.6	36.6	
P-375 A/B	29.2	29.2	29.2	
P-376	40.4	40.4	40.4	
P-376 A/B	37.9	37.9	37.9	
P-377	35.1	35.1	35.1	
P-50 A/B	10.8	10.8	10.8	
P-51 A/B	10.9	10.9	10.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-63	13.0	13.0	13.0	
P-70 A/B	10.8	10.8	10.8	
P-73 A/B	11.3	11.3	11.3	
Piping Furnace Tanks	6.1	6.1	6.1	
Piping Hydrogen Tanks Compressor	18.6	18.6	18.6	
Piping Hydrogen Tanks Compressor w NC	37.2	37.2	37.2	
Piping Hydrogen Tanks Compressorw NC	33.7	33.7	33.7	
Pre-Treat Train-Pre-Treat Outside Area E	24.4	24.4	24.4	
Pre-Treat Train-Pre-Treat Outside Area N	39.9	39.9	39.9	
Pre-Treat Train-Pre-Treat Outside Area N2	31.3	31.3	31.3	
Pre-Treat Train-Pre-Treat Outside Area S	27.4	27.4	27.4	
Pre-Treat Train-Pre-Treat Outside Area S2	20.0	20.0	20.0	
Pre-Treat Train-Pre-Treat Outside Area W1	31.3	31.3	31.3	
Pre-Treat Train-Pre-Treat Outside Area W2	35.2	35.2	35.2	
Pre-Treat Train-Pre-Treat Outside Area W3	27.5	27.5	27.5	
Pre-Treat Train-Roof 01	42.8	42.8	42.8	
PSA Pipe 3" Lagging	9.3	9.3	9.3	
PSA Skid Additional Piping w NC	39.7	39.7	39.7	
Reformer-Burner Reformer East	32.3	32.3	32.3	
Reformer-Burner Reformer North	30.4	30.4	30.4	
Reformer-Burner Reformer South	18.6	18.6	18.6	
Reformer-Burner Reformer West	19.2	19.2	19.2	
Revised Renewable Fuels Delivery for Pre	8.7	9.7	9.7	
Revised Renewable Fuels Delivery for Pre	13.2	14.2	14.2	
RFG A from battery to process	18.5	18.5	18.5	
RFG A from battery to process w NC	31.4	31.4	31.4	
Stack Noise	37.6	37.6	37.6	
Steam Turbine-Facade 01	17.8	17.8	17.8	
Steam Turbine-Facade 02	12.6	12.6	12.6	
Steam Turbine-Facade 03	18.2	18.2	18.2	
Steam Turbine-Facade 04	18.8	18.8	18.8	
Steam Turbine-Roof 01	21.2	21.2	21.2	
Tank Farm Pump 1	19.4	19.4	19.4	
Tank Farm Pump 2	19.9	19.9	19.9	
Tank Farm Pump 3	20.6	20.6	20.6	
UP Train Locomotive Delivery and Pickup 2022 2x	37.1		45.8	
XF-1502 Splitter Area 1	41.7	41.7	41.7	
XF-1502 Splitter Area 2	42.4	42.4	42.4	
XF-1504 Splitter Area 1	42.2	42.2	42.2	
XF-1504 Splitter Area 2	42.1	42.1	42.1	
XF - 1601	35.7	35.7	35.7	
XF - 1602	35.6	35.6	35.6	
XF 251, 250, 271, 270	35.3	35.3	35.3	
XF 260, 261A, 261 B	32.6	32.6	32.6	
XF 304, XF 321	45.2	45.2	45.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 313, XF 314	45.0	45.0	45.0	
XF 335-1, XF 335-2	49.5	49.5	49.5	
XF 353A/B	22.8	22.8	22.8	
XF 353A/B	23.5	23.5	23.5	
XF 354A/B	26.2	26.2	26.2	
XF 503	44.5	44.5	44.5	
XF Module 1510	45.4	45.4	45.4	
XF Module 1519	46.5	46.5	46.5	
Receiver N-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 53.7 dB(A)	Ld 7-19 dB(A)	Leq,N 53.6 dB(A)	Le 19-2
ID Fan Motor	26.1	26.1	26.1	
18-1855 A/B	17.9	17.9	17.9	
18-1856 A/B	17.0	17.0	17.0	
18-1857 A/B	22.5	22.5	22.5	
18-1858 A/B	22.6	22.6	22.6	
18-PK 1802 Air Compressor Package	22.0	22.0	22.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	32.5		35.2	
Air Compressor C 1	39.2	39.2	39.2	
Air Compressor Pump	18.0	18.0	18.0	
Blower F 401	40.0	40.0	40.0	
Boiler Crude Unit-Heater Opening	14.2	14.2	14.2	
Boiler Feed Water Pump A	15.5	15.5	15.5	
Boiler Feed Water Pump B	15.5	15.5	15.5	
C-270 A	25.4	25.4	25.4	
C-270 B	27.4	27.4	27.4	
C-270 C	30.7	30.7	30.7	
C-301 Compressor	25.0	25.0	25.0	
C-301 Motor	24.4	24.4	24.4	
C-351 Compressor	25.1	25.1	25.1	
C-351 Motor	24.2	24.2	24.2	
C370 A Motor	25.7	25.7	25.7	
C370 B Motor	30.3	30.3	30.3	
C370A	25.9	25.9	25.9	
C370B	25.2	25.2	25.2	
Cars Pumping 6 times in during delivery	29.8		38.5	
Compressor House C301, C302, C 124-Comp House East 1	31.5	31.5	31.5	
Compressor House C301, C302, C 124-Comp House East 2	29.5	29.5	29.5	
Compressor House C301, C302, C 124-Comp House North	37.1	37.1	37.1	
Compressor House C301, C302, C 124-Comp House South 1	24.5	24.5	24.5	
Compressor House C301, C302, C 124-Comp House South 2	18.2	18.2	18.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House West	22.7	22.7	22.7	
Construction / Renewable Fuels Truck Tr	26.7	26.7	26.7	
Cooling Tower CT 510-CT 510 East Side	16.4	16.4	16.4	
Cooling Tower CT 510-CT 510 West Side	35.3	35.3	35.3	
Cooling Tower CT 511-CT 511 East Side	20.1	20.1	20.1	
Cooling Tower CT 511-CT 511 West Side	38.9	38.9	38.9	
Cooling Tower M 512	17.1	17.1	17.1	
Cooling Tower M 513	17.3	17.3	17.3	
Cooling Tower M 514	17.0	17.0	17.0	
Crude Operatoin Truck Truck Traffic	20.8	21.8	21.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	14.5	14.5	14.5	
FD Fan Assembly-FD Fan - East	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - North	21.6	21.6	21.6	
FD Fan Assembly-FD Fan - Roof	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - South	21.1	21.1	21.1	
FD Fan Assembly-FD Fan - West	24.6	24.6	24.6	
FD Motor	23.6	23.6	23.6	
Feed Compressor-A Compressor	24.1	24.1	24.1	
Feed Compressor-A Motor	23.6	23.6	23.6	
Feed Compressor-B Compressor	26.3	26.3	26.3	
Feed Compressor -B Motor	25.7	25.7	25.7	
H2S Compressor 18-C-271	29.4	29.4	29.4	
Heater # 5-Heater	9.0	9.0	9.0	
Heater # 5-Heater	8.4	8.4	8.4	
Heater # 5-Heater	10.2	10.2	10.2	
Hydro Heater H-402	25.6	25.6	25.6	
ID Fan-ID Fan - East (128302)	15.4	15.4	15.4	
ID Fan-ID Fan - East 1 (128306)	14.9	14.9	14.9	
ID Fan-ID Fan - North	21.9	21.9	21.9	
ID Fan-ID Fan - North 2	20.5	20.5	20.5	
ID Fan-ID Fan - South	19.9	19.9	19.9	
ID Fan-ID Fan - South 2	19.5	19.5	19.5	
ID Fan-ID Fan Roof 01 (128293)	23.5	23.5	23.5	
Motor & Pump P - 1502 Splitter Reflux Pu	30.1	30.1	30.1	
Motor & Pump P - 1503 Splitter Bottoms P	30.3	30.3	30.3	
Motor & Pump P - 1504 Splitter Bottoms P	30.4	30.4	30.4	
Motor & Pump P - 1507 Reactor Pump	30.0	30.0	30.0	
Motor & Pump P - 1508 Reactor Pump	29.6	29.6	29.6	
Motor & Pump P - 1511 Stabilizer Reflux	17.9	17.9	17.9	
Motor & Pump P - 1512 Stabilizer Reflux	29.2	29.2	29.2	
Motor & Pump P - 1513 Caustic Circulatin	30.4	30.4	30.4	
Motor & Pump P - 1514 Caustic Circulatin	29.4	29.4	29.4	
Motor & Pump P 120/121	25.9	25.9	25.9	
Motor & Pump P 1505 FRESH FEED PUMPS	32.0	32.0	32.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	32.1	32.1	32.1	
Motor & Pump P 1509 Chloride Injection P	27.6	27.6	27.6	
Motor & Pump P 1510 Chloride Injection P	27.9	27.9	27.9	
Motor & Pump P 1601 A	35.2	35.2	35.2	
Motor & Pump P 1601 B	31.3	31.3	31.3	
Motor & Pump P 1602 A	32.1	32.1	32.1	
Motor & Pump P 1602 B	36.1	36.1	36.1	
Motor & Pump P 211/212	16.0	16.0	16.0	
Motor & Pump P 215/214	17.2	17.2	17.2	
Motor & Pump P 216	21.2	21.2	21.2	
Motor & Pump P 217/218	16.2	16.2	16.2	
Motor & Pump P 300	26.2	26.2	26.2	
Motor & Pump P 301	30.8	30.8	30.8	
Motor & Pump P 302	26.6	26.6	26.6	
Motor & Pump P 303	26.7	26.7	26.7	
Motor & Pump P 305	27.2	27.2	27.2	
Motor & Pump P 306	40.9	40.9	40.9	
Motor & Pump P 307	30.1	30.1	30.1	
Motor & Pump P 309	27.1	27.1	27.1	
Motor & Pump P 312	27.6	27.6	27.6	
Motor & Pump P 313	27.6	27.6	27.6	
Motor & Pump P 315	28.8	28.8	28.8	
Motor & Pump P 316	28.7	28.7	28.7	
Motor & Pump P 317	28.6	28.6	28.6	
Motor & Pump P 318	26.1	26.1	26.1	
Motor & Pump P 319	26.2	26.2	26.2	
Motor & Pump P 327	38.3	38.3	38.3	
Motor & Pump P 328	39.0	39.0	39.0	
Motor & Pump P 329	38.5	38.5	38.5	
Motor & Pump P 451	15.0	15.0	15.0	
Motor & Pump P 453	13.8	13.8	13.8	
Motor & Pump P 454	22.5	22.5	22.5	
Motor & Pump P 457	13.8	13.8	13.8	
Motor & Pump P 458	14.9	14.9	14.9	
Motor & Pump P 459	22.5	22.5	22.5	
Motor & Pump P 56A/B	18.4	18.4	18.4	
Nitrogen Skid w Compressor 18-PK 1806	44.0	44.0	44.0	
P-060 A/B	22.1	22.1	22.1	
P-1101 A	16.2	16.2	16.2	
P-1103	16.1	16.1	16.1	
P-1105 A/B/C	16.7	16.7	16.7	
P-1800	20.2	20.2	20.2	
P-1801	13.6	13.6	13.6	
P-1802	11.6	11.6	11.6	
P-1803	19.1	19.1	19.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1804	14.7	14.7	14.7	
P-1805	19.3	19.3	19.3	
P-1806	22.9	22.9	22.9	
P-1809 A	15.9	15.9	15.9	
P-1810 A/B/C	12.8	12.8	12.8	
P-1811 A/B	23.1	23.1	23.1	
P-1811 A/B	12.8	12.8	12.8	
P-1847 A/B	14.1	14.1	14.1	
P-1849 A/B	14.1	14.1	14.1	
P-1853	16.1	16.1	16.1	
P-2 A/B	15.2	15.2	15.2	
P-251 A/B	16.2	16.2	16.2	
P-252 A/B	15.9	15.9	15.9	
P-253	21.1	21.1	21.1	
P-254 A/B	15.8	15.8	15.8	
P-255 A/B	16.1	16.1	16.1	
P-255 A/B	20.9	20.9	20.9	
P-256 A/B	16.0	16.0	16.0	
P-259 A/B	21.0	21.0	21.0	
P-260	19.0	19.0	19.0	
P-261 A/B	18.1	18.1	18.1	
P-262 A/B	18.8	18.8	18.8	
P-263 A/B	19.1	19.1	19.1	
P-270 A/B	16.7	16.7	16.7	
P-271 A/B	21.1	21.1	21.1	
P-272 A/B	21.0	21.0	21.0	
P-273 A/B	17.4	17.4	17.4	
P-275 A/B/C	21.9	21.9	21.9	
P-305	18.3	18.3	18.3	
P-306	16.5	16.5	16.5	
P-309	15.7	15.7	15.7	
P-328	18.9	18.9	18.9	
P-329	18.9	18.9	18.9	
P-353	14.8	14.8	14.8	
P-358 A/B	20.0	20.0	20.0	
P-359 A/B	15.2	15.2	15.2	
P-360 A/B	14.5	14.5	14.5	
P-361A	22.3	22.3	22.3	
P-371 A/B	20.0	20.0	20.0	
P-373 A/B	20.9	20.9	20.9	
P-374 A/B	20.9	20.9	20.9	
P-375 A/B	21.1	21.1	21.1	
P-376	20.9	20.9	20.9	
P-376 A/B	20.9	20.9	20.9	
P-377	20.9	20.9	20.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-50 A/B	12.6	12.6	12.6	
P-51 A/B	15.2	15.2	15.2	
P-63	23.5	23.5	23.5	
P-70 A/B	12.6	12.6	12.6	
P-73 A/B	12.5	12.5	12.5	
Piping Furnace Tanks	4.8	4.8	4.8	
Piping Hydrogen Tanks Compressor	15.4	15.4	15.4	
Piping Hydrogen Tanks Compressor w NC	34.5	34.5	34.5	
Piping Hydrogen Tanks Compressorw NC	32.8	32.8	32.8	
Pre-Treat Train-Pre-Treat Outside Area E	22.3	22.3	22.3	
Pre-Treat Train-Pre-Treat Outside Area N	27.4	27.4	27.4	
Pre-Treat Train-Pre-Treat Outside Area N2	21.0	21.0	21.0	
Pre-Treat Train-Pre-Treat Outside Area S	22.5	22.5	22.5	
Pre-Treat Train-Pre-Treat Outside Area S2	16.1	16.1	16.1	
Pre-Treat Train-Pre-Treat Outside Area W1	21.1	21.1	21.1	
Pre-Treat Train-Pre-Treat Outside Area W2	23.6	23.6	23.6	
Pre-Treat Train-Pre-Treat Outside Area W3	20.5	20.5	20.5	
Pre-Treat Train-Roof 01	28.3	28.3	28.3	
PSA Pipe 3" Lagging	4.9	4.9	4.9	
PSA Skid Additional Piping w NC	36.5	36.5	36.5	
Reformer-Burner Reformer East	34.1	34.1	34.1	
Reformer-Burner Reformer North	27.6	27.6	27.6	
Reformer-Burner Reformer South	21.9	21.9	21.9	
Reformer-Burner Reformer West	19.1	19.1	19.1	
Revised Renewable Fuels Delivery for Pre	3.1	4.1	4.1	
Revised Renewable Fuels Delivery for Pre	14.6	15.6	15.6	
RFG A from battery to process	16.9	16.9	16.9	
RFG A from battery to process w NC	31.1	31.1	31.1	
Stack Noise	36.4	36.4	36.4	
Steam Turbine-Facade 01	16.5	16.5	16.5	
Steam Turbine-Facade 02	12.9	12.9	12.9	
Steam Turbine-Facade 03	16.6	16.6	16.6	
Steam Turbine-Facade 04	13.5	13.5	13.5	
Steam Turbine-Roof 01	16.7	16.7	16.7	
Tank Farm Pump 1	13.4	13.4	13.4	
Tank Farm Pump 2	14.5	14.5	14.5	
Tank Farm Pump 3	15.0	15.0	15.0	
UP Train Locomotive Delivery and Pickup 2022 2x	32.7		41.4	
XF-1502 Splitter Area 1	36.4	36.4	36.4	
XF-1502 Splitter Area 2	36.1	36.1	36.1	
XF-1504 Splitter Area 1	23.8	23.8	23.8	
XF-1504 Splitter Area 2	28.1	28.1	28.1	
XF - 1601	20.7	20.7	20.7	
XF - 1602	32.3	32.3	32.3	
XF 251, 250, 271, 270	23.3	23.3	23.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 260, 261A, 261 B	21.8	21.8	21.8	
XF 304, XF 321	38.0	38.0	38.0	
XF 313, XF 314	38.1	38.1	38.1	
XF 335-1, XF 335-2	41.6	41.6	41.6	
XF 353A/B	13.5	13.5	13.5	
XF 353A/B	13.7	13.7	13.7	
XF 354A/B	15.6	15.6	15.6	
XF 503	34.3	34.3	34.3	
XF Module 1510	39.9	39.9	39.9	
XF Module 1519	40.7	40.7	40.7	
Receiver N-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 68.3 dB(A)	Ld 7-19 dB(A)	Leq,N 68.3 dB(A)	Le 19-2
ID Fan Motor	28.2	28.2	28.2	
18-1855 A/B	21.0	21.0	21.0	
18-1856 A/B	20.2	20.2	20.2	
18-1857 A/B	22.5	22.5	22.5	
18-1858 A/B	22.2	22.2	22.2	
18-PK 1802 Air Compressor Package	26.8	26.8	26.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	42.3		45.0	
Air Compressor C 1	61.9	61.9	61.9	
Air Compressor Pump	24.8	24.8	24.8	
Blower F 401	56.0	56.0	56.0	
Boiler Crude Unit-Heater Opening	18.8	18.8	18.8	
Boiler Feed Water Pump A	20.7	20.7	20.7	
Boiler Feed Water Pump B	20.5	20.5	20.5	
C-270 A	30.5	30.5	30.5	
C-270 B	30.8	30.8	30.8	
C-270 C	30.6	30.6	30.6	
C-301 Compressor	31.9	31.9	31.9	
C-301 Motor	29.5	29.5	29.5	
C-351 Compressor	29.5	29.5	29.5	
C-351 Motor	27.9	27.9	27.9	
C370 A Motor	34.2	34.2	34.2	
C370 B Motor	37.7	37.7	37.7	
C370A	33.5	33.5	33.5	
C370B	33.7	33.7	33.7	
Cars Pumping 6 times in during delivery	40.6		49.3	
Compressor House C301, C302, C 124-Comp House East 1	40.8	40.8	40.8	
Compressor House C301, C302, C 124-Comp House East 2	40.4	40.4	40.4	
Compressor House C301, C302, C 124-Comp House North	50.2	50.2	50.2	
Compressor House C301, C302, C 124-Comp House South 1	31.8	31.8	31.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House South 2	25.4	25.4	25.4	
Compressor House C301, C302, C 124-Comp House West	24.6	24.6	24.6	
Construction / Renewable Fuels Truck Tr	37.4	37.4	37.4	
Cooling Tower CT 510-CT 510 East Side	26.2	26.2	26.2	
Cooling Tower CT 510-CT 510 West Side	47.4	47.4	47.4	
Cooling Tower CT 511-CT 511 East Side	31.3	31.3	31.3	
Cooling Tower CT 511-CT 511 West Side	46.3	46.3	46.3	
Cooling Tower M 512	24.9	24.9	24.9	
Cooling Tower M 513	26.0	26.0	26.0	
Cooling Tower M 514	24.4	24.4	24.4	
Crude Operatoin Truck Truck Traffic	36.1	37.1	37.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	20.6	20.6	20.6	
FD Fan Assembly-FD Fan - East	27.2	27.2	27.2	
FD Fan Assembly-FD Fan - North	28.2	28.2	28.2	
FD Fan Assembly-FD Fan - Roof	28.5	28.5	28.5	
FD Fan Assembly-FD Fan - South	26.2	26.2	26.2	
FD Fan Assembly-FD Fan - West	32.3	32.3	32.3	
FD Motor	24.7	24.7	24.7	
Feed Compressor-A Compressor	29.5	29.5	29.5	
Feed Compressor-A Motor	27.2	27.2	27.2	
Feed Compressor-B Compressor	33.7	33.7	33.7	
Feed Compressor -B Motor	30.9	30.9	30.9	
H2S Compressor 18-C-271	51.9	51.9	51.9	
Heater # 5-Heater	12.4	12.4	12.4	
Heater # 5-Heater	12.9	12.9	12.9	
Heater # 5-Heater	14.2	14.2	14.2	
Hydro Heater H-402	40.7	40.7	40.7	
ID Fan-ID Fan - East (128302)	18.4	18.4	18.4	
ID Fan-ID Fan - East 1 (128306)	18.1	18.1	18.1	
ID Fan-ID Fan - North	27.2	27.2	27.2	
ID Fan-ID Fan - North 2	24.6	24.6	24.6	
ID Fan-ID Fan - South	23.2	23.2	23.2	
ID Fan-ID Fan - South 2	22.7	22.7	22.7	
ID Fan-ID Fan Roof 01 (128293)	27.8	27.8	27.8	
Motor & Pump P - 1502 Splitter Reflux Pu	46.6	46.6	46.6	
Motor & Pump P - 1503 Splitter Bottoms P	46.0	46.0	46.0	
Motor & Pump P - 1504 Splitter Bottoms P	45.9	45.9	45.9	
Motor & Pump P - 1507 Reactor Pump	46.3	46.3	46.3	
Motor & Pump P - 1508 Reactor Pump	46.2	46.2	46.2	
Motor & Pump P - 1511 Stabilizer Reflux	32.6	32.6	32.6	
Motor & Pump P - 1512 Stabilizer Reflux	43.5	43.5	43.5	
Motor & Pump P - 1513 Caustic Circulatin	45.9	45.9	45.9	
Motor & Pump P - 1514 Caustic Circulatin	42.7	42.7	42.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 120/121	49.4	49.4	49.4	
Motor & Pump P 1505 FRESH FEED PUMPS	45.7	45.7	45.7	
Motor & Pump P 1506 FRESH FEED PUMPS	45.8	45.8	45.8	
Motor & Pump P 1509 Chloride Injection P	39.0	39.0	39.0	
Motor & Pump P 1510 Chloride Injection P	38.3	38.3	38.3	
Motor & Pump P 1601 A	37.7	37.7	37.7	
Motor & Pump P 1601 B	35.1	35.1	35.1	
Motor & Pump P 1602 A	31.6	31.6	31.6	
Motor & Pump P 1602 B	38.3	38.3	38.3	
Motor & Pump P 211/212	28.6	28.6	28.6	
Motor & Pump P 215/214	30.0	30.0	30.0	
Motor & Pump P 216	34.4	34.4	34.4	
Motor & Pump P 217/218	27.7	27.7	27.7	
Motor & Pump P 300	45.3	45.3	45.3	
Motor & Pump P 301	52.8	52.8	52.8	
Motor & Pump P 302	42.4	42.4	42.4	
Motor & Pump P 303	41.2	41.2	41.2	
Motor & Pump P 305	40.9	40.9	40.9	
Motor & Pump P 306	55.3	55.3	55.3	
Motor & Pump P 307	52.7	52.7	52.7	
Motor & Pump P 309	40.5	40.5	40.5	
Motor & Pump P 312	40.0	40.0	40.0	
Motor & Pump P 313	39.7	39.7	39.7	
Motor & Pump P 315	40.2	40.2	40.2	
Motor & Pump P 316	40.0	40.0	40.0	
Motor & Pump P 317	39.9	39.9	39.9	
Motor & Pump P 318	37.5	37.5	37.5	
Motor & Pump P 319	37.9	37.9	37.9	
Motor & Pump P 327	51.4	51.4	51.4	
Motor & Pump P 328	53.6	53.6	53.6	
Motor & Pump P 329	52.5	52.5	52.5	
Motor & Pump P 451	27.9	27.9	27.9	
Motor & Pump P 453	26.1	26.1	26.1	
Motor & Pump P 454	33.8	33.8	33.8	
Motor & Pump P 457	26.5	26.5	26.5	
Motor & Pump P 458	26.5	26.5	26.5	
Motor & Pump P 459	33.8	33.8	33.8	
Motor & Pump P 56A/B	35.5	35.5	35.5	
Nitrogen Skid w Compressor 18-PK 1806	58.4	58.4	58.4	
P-060 A/B	21.7	21.7	21.7	
P-1101 A	16.9	16.9	16.9	
P-1103	17.1	17.1	17.1	
P-1105 A/B/C	16.5	16.5	16.5	
P-1800	17.2	17.2	17.2	
P-1801	13.9	13.9	13.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1802	12.1	12.1	12.1	
P-1803	15.1	15.1	15.1	
P-1804	21.5	21.5	21.5	
P-1805	21.1	21.1	21.1	
P-1806	25.7	25.7	25.7	
P-1809 A	20.5	20.5	20.5	
P-1810 A/B/C	14.1	14.1	14.1	
P-1811 A/B	23.6	23.6	23.6	
P-1811 A/B	15.2	15.2	15.2	
P-1847 A/B	18.2	18.2	18.2	
P-1849 A/B	18.1	18.1	18.1	
P-1853	22.4	22.4	22.4	
P-2 A/B	14.2	14.2	14.2	
P-251 A/B	20.8	20.8	20.8	
P-252 A/B	21.6	21.6	21.6	
P-253	22.0	22.0	22.0	
P-254 A/B	21.7	21.7	21.7	
P-255 A/B	21.9	21.9	21.9	
P-255 A/B	21.3	21.3	21.3	
P-256 A/B	21.6	21.6	21.6	
P-259 A/B	21.0	21.0	21.0	
P-260	22.3	22.3	22.3	
P-261 A/B	26.4	26.4	26.4	
P-262 A/B	28.5	28.5	28.5	
P-263 A/B	28.7	28.7	28.7	
P-270 A/B	16.1	16.1	16.1	
P-271 A/B	21.5	21.5	21.5	
P-272 A/B	21.7	21.7	21.7	
P-273 A/B	16.3	16.3	16.3	
P-275 A/B/C	21.7	21.7	21.7	
P-305	20.5	20.5	20.5	
P-306	19.0	19.0	19.0	
P-309	17.9	17.9	17.9	
P-328	18.7	18.7	18.7	
P-329	18.8	18.8	18.8	
P-353	18.7	18.7	18.7	
P-358 A/B	15.8	15.8	15.8	
P-359 A/B	17.4	17.4	17.4	
P-360 A/B	15.3	15.3	15.3	
P-361A	22.5	22.5	22.5	
P-371 A/B	30.2	30.2	30.2	
P-373 A/B	37.9	37.9	37.9	
P-374 A/B	38.1	38.1	38.1	
P-375 A/B	37.6	37.6	37.6	
P-376	37.7	37.7	37.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-376 A/B	39.0	39.0	39.0	
P-377	37.5	37.5	37.5	
P-50 A/B	20.5	20.5	20.5	
P-51 A/B	13.3	13.3	13.3	
P-63	15.5	15.5	15.5	
P-70 A/B	13.4	13.4	13.4	
P-73 A/B	14.1	14.1	14.1	
Piping Furnace Tanks	11.0	11.0	11.0	
Piping Hydrogen Tanks Compressor	22.3	22.3	22.3	
Piping Hydrogen Tanks Compressor w NC	38.1	38.1	38.1	
Piping Hydrogen Tanks Compressorw NC	35.5	35.5	35.5	
Pre-Treat Train-Pre-Treat Outside Area E	24.5	24.5	24.5	
Pre-Treat Train-Pre-Treat Outside Area N	32.2	32.2	32.2	
Pre-Treat Train-Pre-Treat Outside Area N2	24.5	24.5	24.5	
Pre-Treat Train-Pre-Treat Outside Area S	26.3	26.3	26.3	
Pre-Treat Train-Pre-Treat Outside Area S2	20.6	20.6	20.6	
Pre-Treat Train-Pre-Treat Outside Area W1	23.6	23.6	23.6	
Pre-Treat Train-Pre-Treat Outside Area W2	27.3	27.3	27.3	
Pre-Treat Train-Pre-Treat Outside Area W3	23.7	23.7	23.7	
Pre-Treat Train-Roof 01	32.3	32.3	32.3	
PSA Pipe 3" Lagging	6.5	6.5	6.5	
PSA Skid Additional Piping w NC	40.5	40.5	40.5	
Reformer-Burner Reformer East	36.1	36.1	36.1	
Reformer-Burner Reformer North	33.1	33.1	33.1	
Reformer-Burner Reformer South	21.9	21.9	21.9	
Reformer-Burner Reformer West	23.1	23.1	23.1	
Revised Renewable Fuels Delivery for Pre	9.1	10.0	10.0	
Revised Renewable Fuels Delivery for Pre	12.1	13.1	13.1	
RFG A from battery to process	21.0	21.0	21.0	
RFG A from battery to process w NC	34.6	34.6	34.6	
Stack Noise	40.0	40.0	40.0	
Steam Turbine-Facade 01	21.6	21.6	21.6	
Steam Turbine-Facade 02	17.1	17.1	17.1	
Steam Turbine-Facade 03	22.2	22.2	22.2	
Steam Turbine-Facade 04	21.6	21.6	21.6	
Steam Turbine-Roof 01	23.4	23.4	23.4	
Tank Farm Pump 1	19.5	19.5	19.5	
Tank Farm Pump 2	17.3	17.3	17.3	
Tank Farm Pump 3	19.0	19.0	19.0	
UP Train Locomotive Delivery and Pickup 2022 2x	37.1		45.9	
XF-1502 Splitter Area 1	48.4	48.4	48.4	
XF-1502 Splitter Area 2	48.2	48.2	48.2	
XF-1504 Splitter Area 1	47.8	47.8	47.8	
XF-1504 Splitter Area 2	47.6	47.6	47.6	
XF - 1601	38.9	38.9	38.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF - 1602	41.5	41.5	41.5	
XF 251, 250, 271, 270	27.7	27.7	27.7	
XF 260, 261A, 261 B	36.2	36.2	36.2	
XF 304, XF 321	51.6	51.6	51.6	
XF 313, XF 314	55.1	55.1	55.1	
XF 335-1, XF 335-2	54.8	54.8	54.8	
XF 353A/B	20.4	20.4	20.4	
XF 353A/B	21.5	21.5	21.5	
XF 354A/B	21.2	21.2	21.2	
XF 503	53.4	53.4	53.4	
XF Module 1510	52.3	52.3	52.3	
XF Module 1519	53.3	53.3	53.3	
Receiver N-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 61.3 dB(A)	Ld 7-19 dB(A)	Leq,N 61.3 dB(A)	Le 19-2
ID Fan Motor	30.4	30.4	30.4	
18-1855 A/B	23.6	23.6	23.6	
18-1856 A/B	23.3	23.3	23.3	
18-1857 A/B	24.5	24.5	24.5	
18-1858 A/B	41.1	41.1	41.1	
18-PK 1802 Air Compressor Package	30.0	30.0	30.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	36.6		39.3	
Air Compressor C 1	46.0	46.0	46.0	
Air Compressor Pump	24.8	24.8	24.8	
Blower F 401	44.6	44.6	44.6	
Boiler Crude Unit-Heater Opening	18.5	18.5	18.5	
Boiler Feed Water Pump A	20.3	20.3	20.3	
Boiler Feed Water Pump B	21.0	21.0	21.0	
C-270 A	29.1	29.1	29.1	
C-270 B	29.5	29.5	29.5	
C-270 C	33.8	33.8	33.8	
C-301 Compressor	27.6	27.6	27.6	
C-301 Motor	25.1	25.1	25.1	
C-351 Compressor	27.1	27.1	27.1	
C-351 Motor	23.8	23.8	23.8	
C370 A Motor	37.4	37.4	37.4	
C370 B Motor	48.9	48.9	48.9	
C370A	36.5	36.5	36.5	
C370B	41.7	41.7	41.7	
Cars Pumping 6 times in during delivery	34.2		43.0	
Compressor House C301, C302, C 124-Comp House East 1	34.4	34.4	34.4	
Compressor House C301, C302, C 124-Comp House East 2	32.1	32.1	32.1	
Compressor House C301, C302, C 124-Comp House North	42.1	42.1	42.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House South 1	27.9	27.9	27.9	
Compressor House C301, C302, C 124-Comp House South 2	22.0	22.0	22.0	
Compressor House C301, C302, C 124-Comp House West	17.1	17.1	17.1	
Construction / Renewable Fuels Truck Tr	41.3	41.3	41.3	
Cooling Tower CT 510-CT 510 East Side	31.7	31.7	31.7	
Cooling Tower CT 510-CT 510 West Side	18.5	18.5	18.5	
Cooling Tower CT 511-CT 511 East Side	38.5	38.5	38.5	
Cooling Tower CT 511-CT 511 West Side	21.7	21.7	21.7	
Cooling Tower M 512	22.1	22.1	22.1	
Cooling Tower M 513	22.9	22.9	22.9	
Cooling Tower M 514	22.1	22.1	22.1	
Crude Operatoin Truck Truck Traffic	36.3	37.2	37.2	
E 321 Fin Fan Hydrogen Plant - Low Noise	18.3	18.3	18.3	
FD Fan Assembly-FD Fan - East	27.8	27.8	27.8	
FD Fan Assembly-FD Fan - North	26.9	26.9	26.9	
FD Fan Assembly-FD Fan - Roof	28.6	28.6	28.6	
FD Fan Assembly-FD Fan - South	25.7	25.7	25.7	
FD Fan Assembly-FD Fan - West	30.8	30.8	30.8	
FD Motor	28.4	28.4	28.4	
Feed Compressor-A Compressor	45.1	45.1	45.1	
Feed Compressor-A Motor	44.3	44.3	44.3	
Feed Compressor-B Compressor	47.0	47.0	47.0	
Feed Compressor -B Motor	45.7	45.7	45.7	
H2S Compressor 18-C-271	36.5	36.5	36.5	
Heater # 5-Heater	13.4	13.4	13.4	
Heater # 5-Heater	12.8	12.8	12.8	
Heater # 5-Heater	14.5	14.5	14.5	
Hydro Heater H-402	28.8	28.8	28.8	
ID Fan-ID Fan - East (128302)	19.9	19.9	19.9	
ID Fan-ID Fan - East 1 (128306)	19.6	19.6	19.6	
ID Fan-ID Fan - North	28.0	28.0	28.0	
ID Fan-ID Fan - North 2	25.5	25.5	25.5	
ID Fan-ID Fan - South	24.4	24.4	24.4	
ID Fan-ID Fan - South 2	24.0	24.0	24.0	
ID Fan-ID Fan Roof 01 (128293)	28.5	28.5	28.5	
Motor & Pump P - 1502 Splitter Reflux Pu	26.3	26.3	26.3	
Motor & Pump P - 1503 Splitter Bottoms P	28.8	28.8	28.8	
Motor & Pump P - 1504 Splitter Bottoms P	30.5	30.5	30.5	
Motor & Pump P - 1507 Reactor Pump	24.2	24.2	24.2	
Motor & Pump P - 1508 Reactor Pump	26.1	26.1	26.1	
Motor & Pump P - 1511 Stabilizer Reflux	29.7	29.7	29.7	
Motor & Pump P - 1512 Stabilizer Reflux	31.6	31.6	31.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1513 Caustic Circulatin	30.6	30.6	30.6	
Motor & Pump P - 1514 Caustic Circulatin	31.1	31.1	31.1	
Motor & Pump P 120/121	34.8	34.8	34.8	
Motor & Pump P 1505 FRESH FEED PUMPS	28.4	28.4	28.4	
Motor & Pump P 1506 FRESH FEED PUMPS	25.3	25.3	25.3	
Motor & Pump P 1509 Chloride Injection P	24.4	24.4	24.4	
Motor & Pump P 1510 Chloride Injection P	24.4	24.4	24.4	
Motor & Pump P 1601 A	27.3	27.3	27.3	
Motor & Pump P 1601 B	27.3	27.3	27.3	
Motor & Pump P 1602 A	26.3	26.3	26.3	
Motor & Pump P 1602 B	26.1	26.1	26.1	
Motor & Pump P 211/212	22.6	22.6	22.6	
Motor & Pump P 215/214	22.1	22.1	22.1	
Motor & Pump P 216	24.2	24.2	24.2	
Motor & Pump P 217/218	21.3	21.3	21.3	
Motor & Pump P 300	35.0	35.0	35.0	
Motor & Pump P 301	40.4	40.4	40.4	
Motor & Pump P 302	36.3	36.3	36.3	
Motor & Pump P 303	36.9	36.9	36.9	
Motor & Pump P 305	35.4	35.4	35.4	
Motor & Pump P 306	43.2	43.2	43.2	
Motor & Pump P 307	46.3	46.3	46.3	
Motor & Pump P 309	35.4	35.4	35.4	
Motor & Pump P 312	31.8	31.8	31.8	
Motor & Pump P 313	32.4	32.4	32.4	
Motor & Pump P 315	33.1	33.1	33.1	
Motor & Pump P 316	34.1	34.1	34.1	
Motor & Pump P 317	34.4	34.4	34.4	
Motor & Pump P 318	29.5	29.5	29.5	
Motor & Pump P 319	34.9	34.9	34.9	
Motor & Pump P 327	46.4	46.4	46.4	
Motor & Pump P 328	48.0	48.0	48.0	
Motor & Pump P 329	45.8	45.8	45.8	
Motor & Pump P 451	20.5	20.5	20.5	
Motor & Pump P 453	22.3	22.3	22.3	
Motor & Pump P 454	20.2	20.2	20.2	
Motor & Pump P 457	22.3	22.3	22.3	
Motor & Pump P 458	20.3	20.3	20.3	
Motor & Pump P 459	19.6	19.6	19.6	
Motor & Pump P 56A/B	23.1	23.1	23.1	
Nitrogen Skid w Compressor 18-PK 1806	41.2	41.2	41.2	
P-060 A/B	18.9	18.9	18.9	
P-1101 A	18.7	18.7	18.7	
P-1103	18.6	18.6	18.6	
P-1105 A/B/C	19.6	19.6	19.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1800	21.2	21.2	21.2	
P-1801	18.3	18.3	18.3	
P-1802	17.8	17.8	17.8	
P-1803	22.5	22.5	22.5	
P-1804	20.0	20.0	20.0	
P-1805	20.2	20.2	20.2	
P-1806	23.0	23.0	23.0	
P-1809 A	20.8	20.8	20.8	
P-1810 A/B/C	17.9	17.9	17.9	
P-1811 A/B	22.9	22.9	22.9	
P-1811 A/B	18.0	18.0	18.0	
P-1847 A/B	22.2	22.2	22.2	
P-1849 A/B	22.2	22.2	22.2	
P-1853	35.8	35.8	35.8	
P-2 A/B	18.2	18.2	18.2	
P-251 A/B	34.2	34.2	34.2	
P-252 A/B	33.8	33.8	33.8	
P-253	39.2	39.2	39.2	
P-254 A/B	36.7	36.7	36.7	
P-255 A/B	34.2	34.2	34.2	
P-255 A/B	34.3	34.3	34.3	
P-256 A/B	34.2	34.2	34.2	
P-259 A/B	34.2	34.2	34.2	
P-260	35.5	35.5	35.5	
P-261 A/B	29.4	29.4	29.4	
P-262 A/B	22.2	22.2	22.2	
P-263 A/B	32.1	32.1	32.1	
P-270 A/B	20.1	20.1	20.1	
P-271 A/B	38.6	38.6	38.6	
P-272 A/B	38.7	38.7	38.7	
P-273 A/B	20.8	20.8	20.8	
P-275 A/B/C	22.4	22.4	22.4	
P-305	19.2	19.2	19.2	
P-306	21.0	21.0	21.0	
P-309	18.9	18.9	18.9	
P-328	20.7	20.7	20.7	
P-329	20.9	20.9	20.9	
P-353	18.2	18.2	18.2	
P-358 A/B	20.0	20.0	20.0	
P-359 A/B	17.8	17.8	17.8	
P-360 A/B	18.1	18.1	18.1	
P-361A	21.4	21.4	21.4	
P-371 A/B	28.1	28.1	28.1	
P-373 A/B	25.4	25.4	25.4	
P-374 A/B	25.4	25.4	25.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-375 A/B	27.0	27.0	27.0	
P-376	25.5	25.5	25.5	
P-376 A/B	25.2	25.2	25.2	
P-377	25.6	25.6	25.6	
P-50 A/B	16.6	16.6	16.6	
P-51 A/B	19.6	19.6	19.6	
P-63	19.9	19.9	19.9	
P-70 A/B	16.6	16.6	16.6	
P-73 A/B	16.3	16.3	16.3	
Piping Furnace Tanks	25.0	25.0	25.0	
Piping Hydrogen Tanks Compressor	38.0	38.0	38.0	
Piping Hydrogen Tanks Compressor w NC	47.6	47.6	47.6	
Piping Hydrogen Tanks Compressorw NC	44.8	44.8	44.8	
Pre-Treat Train-Pre-Treat Outside Area E	28.9	28.9	28.9	
Pre-Treat Train-Pre-Treat Outside Area N	44.7	44.7	44.7	
Pre-Treat Train-Pre-Treat Outside Area N2	32.2	32.2	32.2	
Pre-Treat Train-Pre-Treat Outside Area S	28.8	28.8	28.8	
Pre-Treat Train-Pre-Treat Outside Area S2	22.5	22.5	22.5	
Pre-Treat Train-Pre-Treat Outside Area W1	35.9	35.9	35.9	
Pre-Treat Train-Pre-Treat Outside Area W2	31.2	31.2	31.2	
Pre-Treat Train-Pre-Treat Outside Area W3	27.9	27.9	27.9	
Pre-Treat Train-Roof 01	44.3	44.3	44.3	
PSA Pipe 3" Lagging	14.7	14.7	14.7	
PSA Skid Additional Piping w NC	45.2	45.2	45.2	
Reformer-Burner Reformer East	45.0	45.0	45.0	
Reformer-Burner Reformer North	43.6	43.6	43.6	
Reformer-Burner Reformer South	25.4	25.4	25.4	
Reformer-Burner Reformer West	27.7	27.7	27.7	
Revised Renewable Fuels Delivery for Pre	13.0	13.9	13.9	
Revised Renewable Fuels Delivery for Pre	14.6	15.6	15.6	
RFG A from battery to process	39.4	39.4	39.4	
RFG A from battery to process w NC	44.3	44.3	44.3	
Stack Noise	44.0	44.0	44.0	
Steam Turbine-Facade 01	23.1	23.1	23.1	
Steam Turbine-Facade 02	19.8	19.8	19.8	
Steam Turbine-Facade 03	23.3	23.3	23.3	
Steam Turbine-Facade 04	19.9	19.9	19.9	
Steam Turbine-Roof 01	22.4	22.4	22.4	
Tank Farm Pump 1	24.4	24.4	24.4	
Tank Farm Pump 2	25.3	25.3	25.3	
Tank Farm Pump 3	26.5	26.5	26.5	
UP Train Locomotive Delivery and Pickup 2022 2x	34.0		42.7	
XF-1502 Splitter Area 1	31.3	31.3	31.3	
XF-1502 Splitter Area 2	32.6	32.6	32.6	
XF-1504 Splitter Area 1	32.9	32.9	32.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF-1504 Splitter Area 2	33.0	33.0	33.0	
XF - 1601	28.6	28.6	28.6	
XF - 1602	34.0	34.0	34.0	
XF 251, 250, 271, 270	34.4	34.4	34.4	
XF 260, 261A, 261 B	29.5	29.5	29.5	
XF 304, XF 321	48.5	48.5	48.5	
XF 313, XF 314	49.4	49.4	49.4	
XF 335-1, XF 335-2	50.3	50.3	50.3	
XF 353A/B	17.1	17.1	17.1	
XF 353A/B	17.5	17.5	17.5	
XF 354A/B	20.2	20.2	20.2	
XF 503	40.0	40.0	40.0	
XF Module 1510	33.6	33.6	33.6	
XF Module 1519	35.9	35.9	35.9	
Receiver N-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 59.1 dB(A)	Ld 7-19 dB(A)	Leq,N 59.1 dB(A)	Le 19-2
ID Fan Motor	39.6	39.6	39.6	
18-1855 A/B	27.4	27.4	27.4	
18-1856 A/B	27.8	27.8	27.8	
18-1857 A/B	25.5	25.5	25.5	
18-1858 A/B	28.8	28.8	28.8	
18-PK 1802 Air Compressor Package	33.9	33.9	33.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	33.3		36.0	
Air Compressor C 1	37.0	37.0	37.0	
Air Compressor Pump	22.0	22.0	22.0	
Blower F 401	37.4	37.4	37.4	
Boiler Crude Unit-Heater Opening	27.1	27.1	27.1	
Boiler Feed Water Pump A	34.5	34.5	34.5	
Boiler Feed Water Pump B	34.5	34.5	34.5	
C-270 A	45.9	45.9	45.9	
C-270 B	46.1	46.1	46.1	
C-270 C	46.3	46.3	46.3	
C-301 Compressor	49.1	49.1	49.1	
C-301 Motor	47.8	47.8	47.8	
C-351 Compressor	43.6	43.6	43.6	
C-351 Motor	44.4	44.4	44.4	
C370 A Motor	27.3	27.3	27.3	
C370 B Motor	33.8	33.8	33.8	
C370A	27.4	27.4	27.4	
C370B	28.9	28.9	28.9	
Cars Pumping 6 times in during delivery	32.2		40.9	
Compressor House C301, C302, C 124-Comp House East 1	29.5	29.5	29.5	
Compressor House C301, C302, C 124-Comp House East 2	25.9	25.9	25.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House North	36.1	36.1	36.1	
Compressor House C301, C302, C 124-Comp House South 1	24.7	24.7	24.7	
Compressor House C301, C302, C 124-Comp House South 2	17.8	17.8	17.8	
Compressor House C301, C302, C 124-Comp House West	13.9	13.9	13.9	
Construction / Renewable Fuels Truck Tr	43.3	43.3	43.3	
Cooling Tower CT 510-CT 510 East Side	24.8	24.8	24.8	
Cooling Tower CT 510-CT 510 West Side	11.6	11.6	11.6	
Cooling Tower CT 511-CT 511 East Side	28.7	28.7	28.7	
Cooling Tower CT 511-CT 511 West Side	18.6	18.6	18.6	
Cooling Tower M 512	17.1	17.1	17.1	
Cooling Tower M 513	17.0	17.0	17.0	
Cooling Tower M 514	17.0	17.0	17.0	
Crude Operatoin Truck Truck Traffic	38.9	39.9	39.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	35.8	35.8	35.8	
FD Fan Assembly-FD Fan - East	37.8	37.8	37.8	
FD Fan Assembly-FD Fan - North	34.5	34.5	34.5	
FD Fan Assembly-FD Fan - Roof	39.7	39.7	39.7	
FD Fan Assembly-FD Fan - South	31.5	31.5	31.5	
FD Fan Assembly-FD Fan - West	33.8	33.8	33.8	
FD Motor	38.2	38.2	38.2	
Feed Compressor-A Compressor	27.8	27.8	27.8	
Feed Compressor-A Motor	26.0	26.0	26.0	
Feed Compressor-B Compressor	28.2	28.2	28.2	
Feed Compressor -B Motor	26.4	26.4	26.4	
H2S Compressor 18-C-271	30.8	30.8	30.8	
Heater # 5-Heater	19.6	19.6	19.6	
Heater # 5-Heater	15.3	15.3	15.3	
Heater # 5-Heater	20.1	20.1	20.1	
Hydro Heater H-402	24.4	24.4	24.4	
ID Fan-ID Fan - East (128302)	26.5	26.5	26.5	
ID Fan-ID Fan - East 1 (128306)	28.7	28.7	28.7	
ID Fan-ID Fan - North	33.9	33.9	33.9	
ID Fan-ID Fan - North 2	34.6	34.6	34.6	
ID Fan-ID Fan - South	30.8	30.8	30.8	
ID Fan-ID Fan - South 2	29.8	29.8	29.8	
ID Fan-ID Fan Roof 01 (128293)	38.3	38.3	38.3	
Motor & Pump P - 1502 Splitter Reflux Pu	19.4	19.4	19.4	
Motor & Pump P - 1503 Splitter Bottoms P	20.9	20.9	20.9	
Motor & Pump P - 1504 Splitter Bottoms P	21.8	21.8	21.8	
Motor & Pump P - 1507 Reactor Pump	21.6	21.6	21.6	
Motor & Pump P - 1508 Reactor Pump	29.0	29.0	29.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1511 Stabilizer Reflux	21.4	21.4	21.4	
Motor & Pump P - 1512 Stabilizer Reflux	21.6	21.6	21.6	
Motor & Pump P - 1513 Caustic Circulatin	29.2	29.2	29.2	
Motor & Pump P - 1514 Caustic Circulatin	28.1	28.1	28.1	
Motor & Pump P 120/121	21.1	21.1	21.1	
Motor & Pump P 1505 FRESH FEED PUMPS	20.7	20.7	20.7	
Motor & Pump P 1506 FRESH FEED PUMPS	20.8	20.8	20.8	
Motor & Pump P 1509 Chloride Injection P	20.4	20.4	20.4	
Motor & Pump P 1510 Chloride Injection P	20.4	20.4	20.4	
Motor & Pump P 1601 A	21.2	21.2	21.2	
Motor & Pump P 1601 B	21.2	21.2	21.2	
Motor & Pump P 1602 A	21.1	21.1	21.1	
Motor & Pump P 1602 B	19.4	19.4	19.4	
Motor & Pump P 211/212	12.3	12.3	12.3	
Motor & Pump P 215/214	28.9	28.9	28.9	
Motor & Pump P 216	33.3	33.3	33.3	
Motor & Pump P 217/218	18.2	18.2	18.2	
Motor & Pump P 300	22.8	22.8	22.8	
Motor & Pump P 301	28.6	28.6	28.6	
Motor & Pump P 302	22.6	22.6	22.6	
Motor & Pump P 303	23.3	23.3	23.3	
Motor & Pump P 305	21.9	21.9	21.9	
Motor & Pump P 306	35.7	35.7	35.7	
Motor & Pump P 307	29.1	29.1	29.1	
Motor & Pump P 309	21.0	21.0	21.0	
Motor & Pump P 312	26.8	26.8	26.8	
Motor & Pump P 313	27.1	27.1	27.1	
Motor & Pump P 315	29.0	29.0	29.0	
Motor & Pump P 316	28.1	28.1	28.1	
Motor & Pump P 317	28.2	28.2	28.2	
Motor & Pump P 318	26.8	26.8	26.8	
Motor & Pump P 319	26.1	26.1	26.1	
Motor & Pump P 327	36.0	36.0	36.0	
Motor & Pump P 328	33.3	33.3	33.3	
Motor & Pump P 329	33.5	33.5	33.5	
Motor & Pump P 451	17.0	17.0	17.0	
Motor & Pump P 453	15.3	15.3	15.3	
Motor & Pump P 454	14.5	14.5	14.5	
Motor & Pump P 457	14.2	14.2	14.2	
Motor & Pump P 458	16.1	16.1	16.1	
Motor & Pump P 459	14.5	14.5	14.5	
Motor & Pump P 56A/B	17.3	17.3	17.3	
Nitrogen Skid w Compressor 18-PK 1806	29.5	29.5	29.5	
P-060 A/B	25.2	25.2	25.2	
P-1101 A	25.0	25.0	25.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1103	27.8	27.8	27.8	
P-1105 A/B/C	25.3	25.3	25.3	
P-1800	29.0	29.0	29.0	
P-1801	19.5	19.5	19.5	
P-1802	18.9	18.9	18.9	
P-1803	31.8	31.8	31.8	
P-1804	19.8	19.8	19.8	
P-1805	19.6	19.6	19.6	
P-1806	34.1	34.1	34.1	
P-1809 A	18.8	18.8	18.8	
P-1810 A/B/C	19.7	19.7	19.7	
P-1811 A/B	26.8	26.8	26.8	
P-1811 A/B	21.0	21.0	21.0	
P-1847 A/B	25.8	25.8	25.8	
P-1849 A/B	25.7	25.7	25.7	
P-1853	35.2	35.2	35.2	
P-2 A/B	26.2	26.2	26.2	
P-251 A/B	32.3	32.3	32.3	
P-252 A/B	32.7	32.7	32.7	
P-253	36.6	36.6	36.6	
P-254 A/B	36.3	36.3	36.3	
P-255 A/B	31.1	31.1	31.1	
P-255 A/B	33.9	33.9	33.9	
P-256 A/B	32.5	32.5	32.5	
P-259 A/B	33.9	33.9	33.9	
P-260	39.3	39.3	39.3	
P-261 A/B	20.8	20.8	20.8	
P-262 A/B	22.5	22.5	22.5	
P-263 A/B	37.2	37.2	37.2	
P-270 A/B	39.5	39.5	39.5	
P-271 A/B	33.3	33.3	33.3	
P-272 A/B	32.7	32.7	32.7	
P-273 A/B	39.5	39.5	39.5	
P-275 A/B/C	32.7	32.7	32.7	
P-305	37.6	37.6	37.6	
P-306	31.6	31.6	31.6	
P-309	37.5	37.5	37.5	
P-328	34.9	34.9	34.9	
P-329	37.6	37.6	37.6	
P-353	38.0	38.0	38.0	
P-358 A/B	37.6	37.6	37.6	
P-359 A/B	37.6	37.6	37.6	
P-360 A/B	41.0	41.0	41.0	
P-361A	25.3	25.3	25.3	
P-371 A/B	20.7	20.7	20.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-373 A/B	22.9	22.9	22.9	
P-374 A/B	23.0	23.0	23.0	
P-375 A/B	22.8	22.8	22.8	
P-376	22.4	22.4	22.4	
P-376 A/B	21.2	21.2	21.2	
P-377	22.8	22.8	22.8	
P-50 A/B	18.9	18.9	18.9	
P-51 A/B	19.0	19.0	19.0	
P-63	25.5	25.5	25.5	
P-70 A/B	25.4	25.4	25.4	
P-73 A/B	22.3	22.3	22.3	
Piping Furnace Tanks	11.6	11.6	11.6	
Piping Hydrogen Tanks Compressor	18.5	18.5	18.5	
Piping Hydrogen Tanks Compressor w NC	37.2	37.2	37.2	
Piping Hydrogen Tanks Compressorw NC	36.3	36.3	36.3	
Pre-Treat Train-Pre-Treat Outside Area E	29.1	29.1	29.1	
Pre-Treat Train-Pre-Treat Outside Area N	36.1	36.1	36.1	
Pre-Treat Train-Pre-Treat Outside Area N2	33.4	33.4	33.4	
Pre-Treat Train-Pre-Treat Outside Area S	30.7	30.7	30.7	
Pre-Treat Train-Pre-Treat Outside Area S2	26.6	26.6	26.6	
Pre-Treat Train-Pre-Treat Outside Area W1	28.9	28.9	28.9	
Pre-Treat Train-Pre-Treat Outside Area W2	36.1	36.1	36.1	
Pre-Treat Train-Pre-Treat Outside Area W3	28.7	28.7	28.7	
Pre-Treat Train-Roof 01	37.3	37.3	37.3	
PSA Pipe 3" Lagging	6.6	6.6	6.6	
PSA Skid Additional Piping w NC	39.2	39.2	39.2	
Reformer-Burner Reformer East	37.8	37.8	37.8	
Reformer-Burner Reformer North	22.0	22.0	22.0	
Reformer-Burner Reformer South	45.0	45.0	45.0	
Reformer-Burner Reformer West	27.9	27.9	27.9	
Revised Renewable Fuels Delivery for Pre	12.9	13.9	13.9	
Revised Renewable Fuels Delivery for Pre	16.0	16.9	16.9	
RFG A from battery to process	19.7	19.7	19.7	
RFG A from battery to process w NC	36.1	36.1	36.1	
Stack Noise	48.0	48.0	48.0	
Steam Turbine-Facade 01	21.3	21.3	21.3	
Steam Turbine-Facade 02	18.4	18.4	18.4	
Steam Turbine-Facade 03	21.1	21.1	21.1	
Steam Turbine-Facade 04	16.4	16.4	16.4	
Steam Turbine-Roof 01	20.9	20.9	20.9	
Tank Farm Pump 1	28.2	28.2	28.2	
Tank Farm Pump 2	27.7	27.7	27.7	
Tank Farm Pump 3	30.7	30.7	30.7	
UP Train Locomotive Delivery and Pickup 2022 2x	28.3		37.0	
XF-1502 Splitter Area 1	38.1	38.1	38.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF-1502 Splitter Area 2	35.4	35.4	35.4	
XF-1504 Splitter Area 1	35.6	35.6	35.6	
XF-1504 Splitter Area 2	33.7	33.7	33.7	
XF - 1601	26.1	26.1	26.1	
XF - 1602	25.7	25.7	25.7	
XF 251, 250, 271, 270	37.0	37.0	37.0	
XF 260, 261A, 261 B	23.0	23.0	23.0	
XF 304, XF 321	35.2	35.2	35.2	
XF 313, XF 314	35.2	35.2	35.2	
XF 335-1, XF 335-2	37.4	37.4	37.4	
XF 353A/B	30.6	30.6	30.6	
XF 353A/B	31.9	31.9	31.9	
XF 354A/B	31.7	31.7	31.7	
XF 503	36.3	36.3	36.3	
XF Module 1510	39.2	39.2	39.2	
XF Module 1519	43.7	43.7	43.7	
Receiver N-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 55.8 dB(A)	Ld 7-19 dB(A)	Leq,N 56.0 dB(A)	Le 19-2
ID Fan Motor	32.2	32.2	32.2	
18-1855 A/B	25.1	25.1	25.1	
18-1856 A/B	25.9	25.9	25.9	
18-1857 A/B	24.4	24.4	24.4	
18-1858 A/B	32.2	32.2	32.2	
18-PK 1802 Air Compressor Package	32.8	32.8	32.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	31.5		34.2	
Air Compressor C 1	33.1	33.1	33.1	
Air Compressor Pump	20.7	20.7	20.7	
Blower F 401	38.3	38.3	38.3	
Boiler Crude Unit-Heater Opening	31.8	31.8	31.8	
Boiler Feed Water Pump A	29.7	29.7	29.7	
Boiler Feed Water Pump B	28.7	28.7	28.7	
C-270 A	40.1	40.1	40.1	
C-270 B	39.3	39.3	39.3	
C-270 C	39.3	39.3	39.3	
C-301 Compressor	43.5	43.5	43.5	
C-301 Motor	40.6	40.6	40.6	
C-351 Compressor	44.8	44.8	44.8	
C-351 Motor	45.7	45.7	45.7	
C370 A Motor	26.4	26.4	26.4	
C370 B Motor	34.6	34.6	34.6	
C370A	25.6	25.6	25.6	
C370B	28.6	28.6	28.6	
Cars Pumping 6 times in during delivery	29.1		37.8	
Compressor House C301, C302, C 124-Comp House East 1	25.4	25.4	25.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House East 2	21.0	21.0	21.0	
Compressor House C301, C302, C 124-Comp House North	33.4	33.4	33.4	
Compressor House C301, C302, C 124-Comp House South 1	21.9	21.9	21.9	
Compressor House C301, C302, C 124-Comp House South 2	15.7	15.7	15.7	
Compressor House C301, C302, C 124-Comp House West	9.6	9.6	9.6	
Construction / Renewable Fuels Truck Tr	37.4	37.4	37.4	
Cooling Tower CT 510-CT 510 East Side	21.3	21.3	21.3	
Cooling Tower CT 510-CT 510 West Side	9.5	9.5	9.5	
Cooling Tower CT 511-CT 511 East Side	28.4	28.4	28.4	
Cooling Tower CT 511-CT 511 West Side	18.3	18.3	18.3	
Cooling Tower M 512	14.4	14.4	14.4	
Cooling Tower M 513	14.4	14.4	14.4	
Cooling Tower M 514	14.8	14.8	14.8	
Crude Operatoin Truck Truck Traffic	47.0	48.0	48.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	26.6	26.6	26.6	
FD Fan Assembly-FD Fan - East	31.0	31.0	31.0	
FD Fan Assembly-FD Fan - North	27.4	27.4	27.4	
FD Fan Assembly-FD Fan - Roof	29.3	29.3	29.3	
FD Fan Assembly-FD Fan - South	28.5	28.5	28.5	
FD Fan Assembly-FD Fan - West	29.4	29.4	29.4	
FD Motor	31.6	31.6	31.6	
Feed Compressor-A Compressor	30.4	30.4	30.4	
Feed Compressor-A Motor	28.0	28.0	28.0	
Feed Compressor-B Compressor	35.2	35.2	35.2	
Feed Compressor -B Motor	30.4	30.4	30.4	
H2S Compressor 18-C-271	27.1	27.1	27.1	
Heater # 5-Heater	24.9	24.9	24.9	
Heater # 5-Heater	21.0	21.0	21.0	
Heater # 5-Heater	17.4	17.4	17.4	
Hydro Heater H-402	17.4	17.4	17.4	
ID Fan-ID Fan - East (128302)	22.5	22.5	22.5	
ID Fan-ID Fan - East 1 (128306)	25.4	25.4	25.4	
ID Fan-ID Fan - North	29.7	29.7	29.7	
ID Fan-ID Fan - North 2	31.6	31.6	31.6	
ID Fan-ID Fan - South	27.5	27.5	27.5	
ID Fan-ID Fan - South 2	24.9	24.9	24.9	
ID Fan-ID Fan Roof 01 (128293)	29.9	29.9	29.9	
Motor & Pump P - 1502 Splitter Reflux Pu	17.4	17.4	17.4	
Motor & Pump P - 1503 Splitter Bottoms P	18.9	18.9	18.9	
Motor & Pump P - 1504 Splitter Bottoms P	18.3	18.3	18.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1507 Reactor Pump	19.1	19.1	19.1	
Motor & Pump P - 1508 Reactor Pump	18.4	18.4	18.4	
Motor & Pump P - 1511 Stabilizer Reflux	15.7	15.7	15.7	
Motor & Pump P - 1512 Stabilizer Reflux	15.6	15.6	15.6	
Motor & Pump P - 1513 Caustic Circulatin	15.5	15.5	15.5	
Motor & Pump P - 1514 Caustic Circulatin	15.4	15.4	15.4	
Motor & Pump P 120/121	16.3	16.3	16.3	
Motor & Pump P 1505 FRESH FEED PUMPS	16.3	16.3	16.3	
Motor & Pump P 1506 FRESH FEED PUMPS	18.6	18.6	18.6	
Motor & Pump P 1509 Chloride Injection P	13.5	13.5	13.5	
Motor & Pump P 1510 Chloride Injection P	16.8	16.8	16.8	
Motor & Pump P 1601 A	17.0	17.0	17.0	
Motor & Pump P 1601 B	17.1	17.1	17.1	
Motor & Pump P 1602 A	17.1	17.1	17.1	
Motor & Pump P 1602 B	17.3	17.3	17.3	
Motor & Pump P 211/212	10.5	10.5	10.5	
Motor & Pump P 215/214	14.7	14.7	14.7	
Motor & Pump P 216	17.2	17.2	17.2	
Motor & Pump P 217/218	10.3	10.3	10.3	
Motor & Pump P 300	17.7	17.7	17.7	
Motor & Pump P 301	22.6	22.6	22.6	
Motor & Pump P 302	16.3	16.3	16.3	
Motor & Pump P 303	17.7	17.7	17.7	
Motor & Pump P 305	17.3	17.3	17.3	
Motor & Pump P 306	31.5	31.5	31.5	
Motor & Pump P 307	23.7	23.7	23.7	
Motor & Pump P 309	15.7	15.7	15.7	
Motor & Pump P 312	22.8	22.8	22.8	
Motor & Pump P 313	21.0	21.0	21.0	
Motor & Pump P 315	22.5	22.5	22.5	
Motor & Pump P 316	23.7	23.7	23.7	
Motor & Pump P 317	22.3	22.3	22.3	
Motor & Pump P 318	19.3	19.3	19.3	
Motor & Pump P 319	18.9	18.9	18.9	
Motor & Pump P 327	29.6	29.6	29.6	
Motor & Pump P 328	28.3	28.3	28.3	
Motor & Pump P 329	28.4	28.4	28.4	
Motor & Pump P 451	12.4	12.4	12.4	
Motor & Pump P 453	12.9	12.9	12.9	
Motor & Pump P 454	13.3	13.3	13.3	
Motor & Pump P 457	13.0	13.0	13.0	
Motor & Pump P 458	12.4	12.4	12.4	
Motor & Pump P 459	12.4	12.4	12.4	
Motor & Pump P 56A/B	12.2	12.2	12.2	
Nitrogen Skid w Compressor 18-PK 1806	24.0	24.0	24.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-060 A/B	18.5	18.5	18.5	
P-1101 A	20.9	20.9	20.9	
P-1103	21.3	21.3	21.3	
P-1105 A/B/C	20.5	20.5	20.5	
P-1800	18.2	18.2	18.2	
P-1801	18.3	18.3	18.3	
P-1802	18.3	18.3	18.3	
P-1803	22.6	22.6	22.6	
P-1804	19.8	19.8	19.8	
P-1805	19.8	19.8	19.8	
P-1806	25.7	25.7	25.7	
P-1809 A	22.5	22.5	22.5	
P-1810 A/B/C	20.2	20.2	20.2	
P-1811 A/B	21.2	21.2	21.2	
P-1811 A/B	19.1	19.1	19.1	
P-1847 A/B	23.9	23.9	23.9	
P-1849 A/B	24.4	24.4	24.4	
P-1853	28.4	28.4	28.4	
P-2 A/B	21.5	21.5	21.5	
P-251 A/B	23.4	23.4	23.4	
P-252 A/B	23.5	23.5	23.5	
P-253	21.8	21.8	21.8	
P-254 A/B	23.0	23.0	23.0	
P-255 A/B	21.5	21.5	21.5	
P-255 A/B	21.9	21.9	21.9	
P-256 A/B	23.7	23.7	23.7	
P-259 A/B	23.2	23.2	23.2	
P-260	24.4	24.4	24.4	
P-261 A/B	20.2	20.2	20.2	
P-262 A/B	23.6	23.6	23.6	
P-263 A/B	23.7	23.7	23.7	
P-270 A/B	29.3	29.3	29.3	
P-271 A/B	23.7	23.7	23.7	
P-272 A/B	23.1	23.1	23.1	
P-273 A/B	29.3	29.3	29.3	
P-275 A/B/C	23.2	23.2	23.2	
P-305	25.8	25.8	25.8	
P-306	39.1	39.1	39.1	
P-309	32.5	32.5	32.5	
P-328	39.1	39.1	39.1	
P-329	37.1	37.1	37.1	
P-353	27.2	27.2	27.2	
P-358 A/B	37.8	37.8	37.8	
P-359 A/B	41.6	41.6	41.6	
P-360 A/B	41.1	41.1	41.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-361A	21.1	21.1	21.1	
P-371 A/B	18.8	18.8	18.8	
P-373 A/B	18.6	18.6	18.6	
P-374 A/B	20.5	20.5	20.5	
P-375 A/B	20.6	20.6	20.6	
P-376	20.5	20.5	20.5	
P-376 A/B	18.9	18.9	18.9	
P-377	20.5	20.5	20.5	
P-50 A/B	22.3	22.3	22.3	
P-51 A/B	16.8	16.8	16.8	
P-63	18.8	18.8	18.8	
P-70 A/B	16.9	16.9	16.9	
P-73 A/B	20.4	20.4	20.4	
Piping Furnace Tanks	9.5	9.5	9.5	
Piping Hydrogen Tanks Compressor	20.9	20.9	20.9	
Piping Hydrogen Tanks Compressor w NC	34.1	34.1	34.1	
Piping Hydrogen Tanks Compressorw NC	31.0	31.0	31.0	
Pre-Treat Train-Pre-Treat Outside Area E	32.3	32.3	32.3	
Pre-Treat Train-Pre-Treat Outside Area N	37.2	37.2	37.2	
Pre-Treat Train-Pre-Treat Outside Area N2	30.4	30.4	30.4	
Pre-Treat Train-Pre-Treat Outside Area S	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area S2	25.3	25.3	25.3	
Pre-Treat Train-Pre-Treat Outside Area W1	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area W2	29.7	29.7	29.7	
Pre-Treat Train-Pre-Treat Outside Area W3	27.7	27.7	27.7	
Pre-Treat Train-Roof 01	38.7	38.7	38.7	
PSA Pipe 3" Lagging	18.3	18.3	18.3	
PSA Skid Additional Piping w NC	36.1	36.1	36.1	
Reformer-Burner Reformer East	31.0	31.0	31.0	
Reformer-Burner Reformer North	18.4	18.4	18.4	
Reformer-Burner Reformer South	25.3	25.3	25.3	
Reformer-Burner Reformer West	21.9	21.9	21.9	
Revised Renewable Fuels Delivery for Pre	24.8	25.7	25.7	
Revised Renewable Fuels Delivery for Pre	13.2	14.2	14.2	
RFG A from battery to process	22.7	22.7	22.7	
RFG A from battery to process w NC	30.8	30.8	30.8	
Stack Noise	43.4	43.4	43.4	
Steam Turbine-Facade 01	17.0	17.0	17.0	
Steam Turbine-Facade 02	14.1	14.1	14.1	
Steam Turbine-Facade 03	17.0	17.0	17.0	
Steam Turbine-Facade 04	13.0	13.0	13.0	
Steam Turbine-Roof 01	17.0	17.0	17.0	
Tank Farm Pump 1	35.4	35.4	35.4	
Tank Farm Pump 2	25.4	25.4	25.4	
Tank Farm Pump 3	28.3	28.3	28.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
UP Train Locomotive Delivery and Pickup 2022 2x	26.1		34.8	
XF-1502 Splitter Area 1	24.2	24.2	24.2	
XF-1502 Splitter Area 2	24.2	24.2	24.2	
XF-1504 Splitter Area 1	24.3	24.3	24.3	
XF-1504 Splitter Area 2	24.4	24.4	24.4	
XF - 1601	24.2	24.2	24.2	
XF - 1602	24.7	24.7	24.7	
XF 251, 250, 271, 270	31.9	31.9	31.9	
XF 260, 261A, 261 B	27.9	27.9	27.9	
XF 304, XF 321	33.0	33.0	33.0	
XF 313, XF 314	34.9	34.9	34.9	
XF 335-1, XF 335-2	36.0	36.0	36.0	
XF 353A/B	29.4	29.4	29.4	
XF 353A/B	32.6	32.6	32.6	
XF 354A/B	31.5	31.5	31.5	
XF 503	32.1	32.1	32.1	
XF Module 1510	27.6	27.6	27.6	
XF Module 1519	28.5	28.5	28.5	
Receiver N-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 57.8 dB(A)	Ld 7-19 dB(A)	Leq,N 58.1 dB(A)	Le 19-2
ID Fan Motor	32.7	32.7	32.7	
18-1855 A/B	23.0	23.0	23.0	
18-1856 A/B	25.8	25.8	25.8	
18-1857 A/B	23.8	23.8	23.8	
18-1858 A/B	23.8	23.8	23.8	
18-PK 1802 Air Compressor Package	32.3	32.3	32.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	32.4		35.2	
Air Compressor C 1	33.3	33.3	33.3	
Air Compressor Pump	22.1	22.1	22.1	
Blower F 401	39.0	39.0	39.0	
Boiler Crude Unit-Heater Opening	27.0	27.0	27.0	
Boiler Feed Water Pump A	24.1	24.1	24.1	
Boiler Feed Water Pump B	24.8	24.8	24.8	
C-270 A	37.0	37.0	37.0	
C-270 B	37.3	37.3	37.3	
C-270 C	37.9	37.9	37.9	
C-301 Compressor	38.9	38.9	38.9	
C-301 Motor	37.4	37.4	37.4	
C-351 Compressor	40.1	40.1	40.1	
C-351 Motor	39.6	39.6	39.6	
C370 A Motor	27.0	27.0	27.0	
C370 B Motor	32.1	32.1	32.1	
C370A	27.2	27.2	27.2	
C370B	26.3	26.3	26.3	
Cars Pumping 6 times in during delivery	30.9		39.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House East 1	26.0	26.0	26.0	
Compressor House C301, C302, C 124-Comp House East 2	26.0	26.0	26.0	
Compressor House C301, C302, C 124-Comp House North	37.4	37.4	37.4	
Compressor House C301, C302, C 124-Comp House South 1	23.5	23.5	23.5	
Compressor House C301, C302, C 124-Comp House South 2	17.7	17.7	17.7	
Compressor House C301, C302, C 124-Comp House West	10.5	10.5	10.5	
Construction / Renewable Fuels Truck Tr	40.7	40.7	40.7	
Cooling Tower CT 510-CT 510 East Side	22.5	22.5	22.5	
Cooling Tower CT 510-CT 510 West Side	10.4	10.4	10.4	
Cooling Tower CT 511-CT 511 East Side	25.0	25.0	25.0	
Cooling Tower CT 511-CT 511 West Side	20.1	20.1	20.1	
Cooling Tower M 512	16.6	16.6	16.6	
Cooling Tower M 513	16.5	16.5	16.5	
Cooling Tower M 514	18.9	18.9	18.9	
Crude Operatoin Truck Truck Traffic	53.1	54.1	54.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - East	28.8	28.8	28.8	
FD Fan Assembly-FD Fan - North	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - Roof	28.8	28.8	28.8	
FD Fan Assembly-FD Fan - South	24.5	24.5	24.5	
FD Fan Assembly-FD Fan - West	27.3	27.3	27.3	
FD Motor	30.5	30.5	30.5	
Feed Compressor-A Compressor	29.6	29.6	29.6	
Feed Compressor-A Motor	27.4	27.4	27.4	
Feed Compressor-B Compressor	29.6	29.6	29.6	
Feed Compressor -B Motor	25.1	25.1	25.1	
H2S Compressor 18-C-271	26.8	26.8	26.8	
Heater # 5-Heater	21.7	21.7	21.7	
Heater # 5-Heater	18.4	18.4	18.4	
Heater # 5-Heater	19.3	19.3	19.3	
Hydro Heater H-402	17.2	17.2	17.2	
ID Fan-ID Fan - East (128302)	15.3	15.3	15.3	
ID Fan-ID Fan - East 1 (128306)	20.8	20.8	20.8	
ID Fan-ID Fan - North	25.0	25.0	25.0	
ID Fan-ID Fan - North 2	24.7	24.7	24.7	
ID Fan-ID Fan - South	21.5	21.5	21.5	
ID Fan-ID Fan - South 2	19.2	19.2	19.2	
ID Fan-ID Fan Roof 01 (128293)	26.5	26.5	26.5	
Motor & Pump P - 1502 Splitter Reflux Pu	18.5	18.5	18.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	21.4	21.4	21.4	
Motor & Pump P - 1504 Splitter Bottoms P	20.5	20.5	20.5	
Motor & Pump P - 1507 Reactor Pump	22.3	22.3	22.3	
Motor & Pump P - 1508 Reactor Pump	20.6	20.6	20.6	
Motor & Pump P - 1511 Stabilizer Reflux	19.4	19.4	19.4	
Motor & Pump P - 1512 Stabilizer Reflux	19.1	19.1	19.1	
Motor & Pump P - 1513 Caustic Circulatin	19.0	19.0	19.0	
Motor & Pump P - 1514 Caustic Circulatin	19.0	19.0	19.0	
Motor & Pump P 120/121	15.9	15.9	15.9	
Motor & Pump P 1505 FRESH FEED PUMPS	19.1	19.1	19.1	
Motor & Pump P 1506 FRESH FEED PUMPS	20.6	20.6	20.6	
Motor & Pump P 1509 Chloride Injection P	12.1	12.1	12.1	
Motor & Pump P 1510 Chloride Injection P	13.4	13.4	13.4	
Motor & Pump P 1601 A	19.0	19.0	19.0	
Motor & Pump P 1601 B	18.7	18.7	18.7	
Motor & Pump P 1602 A	18.7	18.7	18.7	
Motor & Pump P 1602 B	18.9	18.9	18.9	
Motor & Pump P 211/212	14.7	14.7	14.7	
Motor & Pump P 215/214	17.7	17.7	17.7	
Motor & Pump P 216	18.0	18.0	18.0	
Motor & Pump P 217/218	13.6	13.6	13.6	
Motor & Pump P 300	18.2	18.2	18.2	
Motor & Pump P 301	22.9	22.9	22.9	
Motor & Pump P 302	15.9	15.9	15.9	
Motor & Pump P 303	17.6	17.6	17.6	
Motor & Pump P 305	18.0	18.0	18.0	
Motor & Pump P 306	31.3	31.3	31.3	
Motor & Pump P 307	22.5	22.5	22.5	
Motor & Pump P 309	15.0	15.0	15.0	
Motor & Pump P 312	21.7	21.7	21.7	
Motor & Pump P 313	24.7	24.7	24.7	
Motor & Pump P 315	26.3	26.3	26.3	
Motor & Pump P 316	27.2	27.2	27.2	
Motor & Pump P 317	27.7	27.7	27.7	
Motor & Pump P 318	22.8	22.8	22.8	
Motor & Pump P 319	22.8	22.8	22.8	
Motor & Pump P 327	28.3	28.3	28.3	
Motor & Pump P 328	27.6	27.6	27.6	
Motor & Pump P 329	27.5	27.5	27.5	
Motor & Pump P 451	14.4	14.4	14.4	
Motor & Pump P 453	14.1	14.1	14.1	
Motor & Pump P 454	15.2	15.2	15.2	
Motor & Pump P 457	14.2	14.2	14.2	
Motor & Pump P 458	14.6	14.6	14.6	
Motor & Pump P 459	15.4	15.4	15.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 56A/B	14.4	14.4	14.4	
Nitrogen Skid w Compressor 18-PK 1806	23.3	23.3	23.3	
P-060 A/B	32.8	32.8	32.8	
P-1101 A	21.8	21.8	21.8	
P-1103	22.3	22.3	22.3	
P-1105 A/B/C	22.7	22.7	22.7	
P-1800	20.3	20.3	20.3	
P-1801	21.2	21.2	21.2	
P-1802	21.3	21.3	21.3	
P-1803	23.6	23.6	23.6	
P-1804	23.0	23.0	23.0	
P-1805	23.6	23.6	23.6	
P-1806	32.0	32.0	32.0	
P-1809 A	22.5	22.5	22.5	
P-1810 A/B/C	23.8	23.8	23.8	
P-1811 A/B	28.3	28.3	28.3	
P-1811 A/B	21.7	21.7	21.7	
P-1847 A/B	29.7	29.7	29.7	
P-1849 A/B	44.9	44.9	44.9	
P-1853	30.7	30.7	30.7	
P-2 A/B	22.6	22.6	22.6	
P-251 A/B	35.0	35.0	35.0	
P-252 A/B	24.1	24.1	24.1	
P-253	36.1	36.1	36.1	
P-254 A/B	30.8	30.8	30.8	
P-255 A/B	33.6	33.6	33.6	
P-255 A/B	29.6	29.6	29.6	
P-256 A/B	35.4	35.4	35.4	
P-259 A/B	32.1	32.1	32.1	
P-260	24.0	24.0	24.0	
P-261 A/B	23.0	23.0	23.0	
P-262 A/B	24.5	24.5	24.5	
P-263 A/B	24.3	24.3	24.3	
P-270 A/B	29.5	29.5	29.5	
P-271 A/B	29.2	29.2	29.2	
P-272 A/B	29.1	29.1	29.1	
P-273 A/B	29.5	29.5	29.5	
P-275 A/B/C	29.2	29.2	29.2	
P-305	34.8	34.8	34.8	
P-306	39.7	39.7	39.7	
P-309	35.5	35.5	35.5	
P-328	39.5	39.5	39.5	
P-329	41.7	41.7	41.7	
P-353	32.7	32.7	32.7	
P-358 A/B	37.9	37.9	37.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-359 A/B	37.7	37.7	37.7	
P-360 A/B	39.3	39.3	39.3	
P-361A	41.6	41.6	41.6	
P-371 A/B	23.3	23.3	23.3	
P-373 A/B	20.0	20.0	20.0	
P-374 A/B	20.2	20.2	20.2	
P-375 A/B	20.4	20.4	20.4	
P-376	20.3	20.3	20.3	
P-376 A/B	19.9	19.9	19.9	
P-377	20.4	20.4	20.4	
P-50 A/B	24.1	24.1	24.1	
P-51 A/B	24.9	24.9	24.9	
P-63	23.9	23.9	23.9	
P-70 A/B	24.0	24.0	24.0	
P-73 A/B	23.1	23.1	23.1	
Piping Furnace Tanks	6.6	6.6	6.6	
Piping Hydrogen Tanks Compressor	15.1	15.1	15.1	
Piping Hydrogen Tanks Compressor w NC	33.3	33.3	33.3	
Piping Hydrogen Tanks Compressorw NC	29.3	29.3	29.3	
Pre-Treat Train-Pre-Treat Outside Area E	34.6	34.6	34.6	
Pre-Treat Train-Pre-Treat Outside Area N	39.5	39.5	39.5	
Pre-Treat Train-Pre-Treat Outside Area N2	39.8	39.8	39.8	
Pre-Treat Train-Pre-Treat Outside Area S	33.8	33.8	33.8	
Pre-Treat Train-Pre-Treat Outside Area S2	28.4	28.4	28.4	
Pre-Treat Train-Pre-Treat Outside Area W1	32.3	32.3	32.3	
Pre-Treat Train-Pre-Treat Outside Area W2	38.5	38.5	38.5	
Pre-Treat Train-Pre-Treat Outside Area W3	35.0	35.0	35.0	
Pre-Treat Train-Roof 01	39.9	39.9	39.9	
PSA Pipe 3" Lagging	9.8	9.8	9.8	
PSA Skid Additional Piping w NC	35.2	35.2	35.2	
Reformer-Burner Reformer East	29.0	29.0	29.0	
Reformer-Burner Reformer North	16.2	16.2	16.2	
Reformer-Burner Reformer South	28.1	28.1	28.1	
Reformer-Burner Reformer West	20.4	20.4	20.4	
Revised Renewable Fuels Delivery for Pre	32.0	33.0	33.0	
Revised Renewable Fuels Delivery for Pre	22.4	23.4	23.4	
RFG A from battery to process	16.4	16.4	16.4	
RFG A from battery to process w NC	28.6	28.6	28.6	
Stack Noise	41.2	41.2	41.2	
Steam Turbine-Facade 01	15.5	15.5	15.5	
Steam Turbine-Facade 02	12.4	12.4	12.4	
Steam Turbine-Facade 03	16.1	16.1	16.1	
Steam Turbine-Facade 04	12.2	12.2	12.2	
Steam Turbine-Roof 01	16.2	16.2	16.2	
Tank Farm Pump 1	28.6	28.6	28.6	

AltAir Paramount - WorldEnergy
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Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Tank Farm Pump 2	37.1	37.1	37.1	
Tank Farm Pump 3	45.2	45.2	45.2	
UP Train Locomotive Delivery and Pickup 2022 2x	26.5		35.2	
XF-1502 Splitter Area 1	29.3	29.3	29.3	
XF-1502 Splitter Area 2	26.7	26.7	26.7	
XF-1504 Splitter Area 1	29.4	29.4	29.4	
XF-1504 Splitter Area 2	26.6	26.6	26.6	
XF - 1601	28.2	28.2	28.2	
XF - 1602	28.1	28.1	28.1	
XF 251, 250, 271, 270	35.8	35.8	35.8	
XF 260, 261A, 261 B	27.5	27.5	27.5	
XF 304, XF 321	33.5	33.5	33.5	
XF 313, XF 314	39.6	39.6	39.6	
XF 335-1, XF 335-2	35.2	35.2	35.2	
XF 353A/B	33.2	33.2	33.2	
XF 353A/B	30.3	30.3	30.3	
XF 354A/B	30.5	30.5	30.5	
XF 503	34.7	34.7	34.7	
XF Module 1510	29.9	29.9	29.9	
XF Module 1519	33.3	33.3	33.3	
Receiver N-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 62.1 dB(A)	Ld 7-19 dB(A)	Leq,N 63.0 dB(A)	Le 19-2
ID Fan Motor	24.5	24.5	24.5	
18-1855 A/B	20.9	20.9	20.9	
18-1856 A/B	21.4	21.4	21.4	
18-1857 A/B	21.1	21.1	21.1	
18-1858 A/B	20.6	20.6	20.6	
18-PK 1802 Air Compressor Package	25.6	25.6	25.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	28.1		30.9	
Air Compressor C 1	32.7	32.7	32.7	
Air Compressor Pump	18.6	18.6	18.6	
Blower F 401	36.1	36.1	36.1	
Boiler Crude Unit-Heater Opening	19.4	19.4	19.4	
Boiler Feed Water Pump A	22.9	22.9	22.9	
Boiler Feed Water Pump B	20.0	20.0	20.0	
C-270 A	26.5	26.5	26.5	
C-270 B	26.9	26.9	26.9	
C-270 C	27.1	27.1	27.1	
C-301 Compressor	29.4	29.4	29.4	
C-301 Motor	27.1	27.1	27.1	
C-351 Compressor	30.7	30.7	30.7	
C-351 Motor	27.9	27.9	27.9	
C370 A Motor	30.9	30.9	30.9	
C370 B Motor	35.7	35.7	35.7	
C370A	28.6	28.6	28.6	

AltAir Paramount - WorldEnergy
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Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
C370B	31.4	31.4	31.4	
Cars Pumping 6 times in during delivery	25.7		34.5	
Compressor House C301, C302, C 124-Comp House East 1	21.6	21.6	21.6	
Compressor House C301, C302, C 124-Comp House East 2	22.8	22.8	22.8	
Compressor House C301, C302, C 124-Comp House North	35.3	35.3	35.3	
Compressor House C301, C302, C 124-Comp House South 1	20.2	20.2	20.2	
Compressor House C301, C302, C 124-Comp House South 2	15.6	15.6	15.6	
Compressor House C301, C302, C 124-Comp House West	7.9	7.9	7.9	
Construction / Renewable Fuels Truck Tr	45.8	45.8	45.8	
Cooling Tower CT 510-CT 510 East Side	18.1	18.1	18.1	
Cooling Tower CT 510-CT 510 West Side	7.3	7.3	7.3	
Cooling Tower CT 511-CT 511 East Side	21.3	21.3	21.3	
Cooling Tower CT 511-CT 511 West Side	15.4	15.4	15.4	
Cooling Tower M 512	11.6	11.6	11.6	
Cooling Tower M 513	11.5	11.5	11.5	
Cooling Tower M 514	11.7	11.7	11.7	
Crude Operatoin Truck Truck Traffic	61.7	62.6	62.6	
E 321 Fin Fan Hydrogen Plant - Low Noise	21.8	21.8	21.8	
FD Fan Assembly-FD Fan - East	26.1	26.1	26.1	
FD Fan Assembly-FD Fan - North	23.5	23.5	23.5	
FD Fan Assembly-FD Fan - Roof	24.2	24.2	24.2	
FD Fan Assembly-FD Fan - South	23.0	23.0	23.0	
FD Fan Assembly-FD Fan - West	24.3	24.3	24.3	
FD Motor	23.9	23.9	23.9	
Feed Compressor-A Compressor	28.6	28.6	28.6	
Feed Compressor-A Motor	27.6	27.6	27.6	
Feed Compressor-B Compressor	30.7	30.7	30.7	
Feed Compressor -B Motor	21.1	21.1	21.1	
H2S Compressor 18-C-271	23.6	23.6	23.6	
Heater # 5-Heater	14.7	14.7	14.7	
Heater # 5-Heater	11.6	11.6	11.6	
Heater # 5-Heater	12.8	12.8	12.8	
Hydro Heater H-402	16.0	16.0	16.0	
ID Fan-ID Fan - East (128302)	16.7	16.7	16.7	
ID Fan-ID Fan - East 1 (128306)	19.4	19.4	19.4	
ID Fan-ID Fan - North	24.2	24.2	24.2	
ID Fan-ID Fan - North 2	18.5	18.5	18.5	
ID Fan-ID Fan - South	22.1	22.1	22.1	
ID Fan-ID Fan - South 2	20.3	20.3	20.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
ID Fan-ID Fan Roof 01 (128293)	24.4	24.4	24.4	
Motor & Pump P - 1502 Splitter Reflux Pu	11.3	11.3	11.3	
Motor & Pump P - 1503 Splitter Bottoms P	19.0	19.0	19.0	
Motor & Pump P - 1504 Splitter Bottoms P	18.9	18.9	18.9	
Motor & Pump P - 1507 Reactor Pump	19.0	19.0	19.0	
Motor & Pump P - 1508 Reactor Pump	19.0	19.0	19.0	
Motor & Pump P - 1511 Stabilizer Reflux	18.7	18.7	18.7	
Motor & Pump P - 1512 Stabilizer Reflux	18.7	18.7	18.7	
Motor & Pump P - 1513 Caustic Circulatin	18.1	18.1	18.1	
Motor & Pump P - 1514 Caustic Circulatin	18.6	18.6	18.6	
Motor & Pump P 120/121	14.4	14.4	14.4	
Motor & Pump P 1505 FRESH FEED PUMPS	15.4	15.4	15.4	
Motor & Pump P 1506 FRESH FEED PUMPS	15.4	15.4	15.4	
Motor & Pump P 1509 Chloride Injection P	9.7	9.7	9.7	
Motor & Pump P 1510 Chloride Injection P	11.2	11.2	11.2	
Motor & Pump P 1601 A	13.6	13.6	13.6	
Motor & Pump P 1601 B	13.6	13.6	13.6	
Motor & Pump P 1602 A	13.6	13.6	13.6	
Motor & Pump P 1602 B	13.6	13.6	13.6	
Motor & Pump P 211/212	9.0	9.0	9.0	
Motor & Pump P 215/214	11.4	11.4	11.4	
Motor & Pump P 216	11.8	11.8	11.8	
Motor & Pump P 217/218	6.7	6.7	6.7	
Motor & Pump P 300	16.9	16.9	16.9	
Motor & Pump P 301	21.9	21.9	21.9	
Motor & Pump P 302	16.9	16.9	16.9	
Motor & Pump P 303	16.0	16.0	16.0	
Motor & Pump P 305	17.4	17.4	17.4	
Motor & Pump P 306	30.4	30.4	30.4	
Motor & Pump P 307	21.2	21.2	21.2	
Motor & Pump P 309	14.7	14.7	14.7	
Motor & Pump P 312	18.9	18.9	18.9	
Motor & Pump P 313	19.4	19.4	19.4	
Motor & Pump P 315	24.5	24.5	24.5	
Motor & Pump P 316	22.7	22.7	22.7	
Motor & Pump P 317	18.7	18.7	18.7	
Motor & Pump P 318	21.6	21.6	21.6	
Motor & Pump P 319	21.6	21.6	21.6	
Motor & Pump P 327	28.1	28.1	28.1	
Motor & Pump P 328	27.4	27.4	27.4	
Motor & Pump P 329	27.5	27.5	27.5	
Motor & Pump P 451	10.0	10.0	10.0	
Motor & Pump P 453	9.7	9.7	9.7	
Motor & Pump P 454	8.6	8.6	8.6	
Motor & Pump P 457	9.8	9.8	9.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 458	8.7	8.7	8.7	
Motor & Pump P 459	10.2	10.2	10.2	
Motor & Pump P 56A/B	10.0	10.0	10.0	
Nitrogen Skid w Compressor 18-PK 1806	22.5	22.5	22.5	
P-060 A/B	16.5	16.5	16.5	
P-1101 A	18.3	18.3	18.3	
P-1103	18.2	18.2	18.2	
P-1105 A/B/C	20.2	20.2	20.2	
P-1800	36.3	36.3	36.3	
P-1801	22.6	22.6	22.6	
P-1802	24.1	24.1	24.1	
P-1803	18.3	18.3	18.3	
P-1804	18.8	18.8	18.8	
P-1805	18.5	18.5	18.5	
P-1806	20.2	20.2	20.2	
P-1809 A	18.9	18.9	18.9	
P-1810 A/B/C	18.9	18.9	18.9	
P-1811 A/B	20.3	20.3	20.3	
P-1811 A/B	18.5	18.5	18.5	
P-1847 A/B	20.8	20.8	20.8	
P-1849 A/B	20.9	20.9	20.9	
P-1853	17.6	17.6	17.6	
P-2 A/B	19.0	19.0	19.0	
P-251 A/B	16.2	16.2	16.2	
P-252 A/B	16.7	16.7	16.7	
P-253	16.7	16.7	16.7	
P-254 A/B	16.6	16.6	16.6	
P-255 A/B	16.5	16.5	16.5	
P-255 A/B	16.1	16.1	16.1	
P-256 A/B	16.2	16.2	16.2	
P-259 A/B	16.2	16.2	16.2	
P-260	17.0	17.0	17.0	
P-261 A/B	18.2	18.2	18.2	
P-262 A/B	17.1	17.1	17.1	
P-263 A/B	17.4	17.4	17.4	
P-270 A/B	18.0	18.0	18.0	
P-271 A/B	17.3	17.3	17.3	
P-272 A/B	16.9	16.9	16.9	
P-273 A/B	17.7	17.7	17.7	
P-275 A/B/C	17.2	17.2	17.2	
P-305	18.8	18.8	18.8	
P-306	20.4	20.4	20.4	
P-309	19.4	19.4	19.4	
P-328	19.1	19.1	19.1	
P-329	19.2	19.2	19.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-353	20.8	20.8	20.8	
P-358 A/B	20.5	20.5	20.5	
P-359 A/B	19.5	19.5	19.5	
P-360 A/B	19.6	19.6	19.6	
P-361A	18.4	18.4	18.4	
P-371 A/B	20.9	20.9	20.9	
P-373 A/B	18.8	18.8	18.8	
P-374 A/B	17.8	17.8	17.8	
P-375 A/B	17.4	17.4	17.4	
P-376	17.7	17.7	17.7	
P-376 A/B	20.4	20.4	20.4	
P-377	17.6	17.6	17.6	
P-50 A/B	17.0	17.0	17.0	
P-51 A/B	17.2	17.2	17.2	
P-63	15.9	15.9	15.9	
P-70 A/B	16.6	16.6	16.6	
P-73 A/B	18.9	18.9	18.9	
Piping Furnace Tanks	-1.3	-1.3	-1.3	
Piping Hydrogen Tanks Compressor	13.4	13.4	13.4	
Piping Hydrogen Tanks Compressor w NC	28.4	28.4	28.4	
Piping Hydrogen Tanks Compressorw NC	24.2	24.2	24.2	
Pre-Treat Train-Pre-Treat Outside Area E	45.4	45.4	45.4	
Pre-Treat Train-Pre-Treat Outside Area N	38.5	38.5	38.5	
Pre-Treat Train-Pre-Treat Outside Area N2	25.8	25.8	25.8	
Pre-Treat Train-Pre-Treat Outside Area S	36.0	36.0	36.0	
Pre-Treat Train-Pre-Treat Outside Area S2	24.2	24.2	24.2	
Pre-Treat Train-Pre-Treat Outside Area W1	24.7	24.7	24.7	
Pre-Treat Train-Pre-Treat Outside Area W2	27.6	27.6	27.6	
Pre-Treat Train-Pre-Treat Outside Area W3	25.9	25.9	25.9	
Pre-Treat Train-Roof 01	38.3	38.3	38.3	
PSA Pipe 3" Lagging	-0.3	-0.3	-0.3	
PSA Skid Additional Piping w NC	30.1	30.1	30.1	
Reformer-Burner Reformer East	22.8	22.9	22.9	
Reformer-Burner Reformer North	11.9	11.9	11.9	
Reformer-Burner Reformer South	18.6	18.6	18.6	
Reformer-Burner Reformer West	17.8	17.8	17.8	
Revised Renewable Fuels Delivery for Pre	32.5	33.4	33.4	
Revised Renewable Fuels Delivery for Pre	31.7	32.7	32.7	
RFG A from battery to process	14.9	14.9	14.9	
RFG A from battery to process w NC	23.6	23.6	23.6	
Stack Noise	38.3	38.3	38.3	
Steam Turbine-Facade 01	13.0	13.0	13.0	
Steam Turbine-Facade 02	9.6	9.6	9.6	
Steam Turbine-Facade 03	12.7	12.7	12.7	
Steam Turbine-Facade 04	8.6	8.6	8.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Steam Turbine-Roof 01	12.4	12.4	12.4	
Tank Farm Pump 1	24.0	24.0	24.0	
Tank Farm Pump 2	22.5	22.5	22.5	
Tank Farm Pump 3	22.6	22.6	22.6	
UP Train Locomotive Delivery and Pickup 2022 2x	24.0		32.8	
XF-1502 Splitter Area 1	27.4	27.4	27.4	
XF-1502 Splitter Area 2	23.8	23.8	23.8	
XF-1504 Splitter Area 1	27.4	27.4	27.4	
XF-1504 Splitter Area 2	23.5	23.5	23.5	
XF - 1601	22.8	22.8	22.8	
XF - 1602	22.8	22.8	22.8	
XF 251, 250, 271, 270	25.6	25.6	25.6	
XF 260, 261A, 261 B	22.6	22.6	22.6	
XF 304, XF 321	31.7	31.7	31.7	
XF 313, XF 314	33.4	33.4	33.4	
XF 335-1, XF 335-2	34.9	34.9	34.9	
XF 353A/B	18.9	18.9	18.9	
XF 353A/B	21.3	21.3	21.3	
XF 354A/B	20.2	20.2	20.2	
XF 503	29.6	29.6	29.6	
XF Module 1510	27.0	27.0	27.0	
XF Module 1519	31.6	31.6	31.6	
Receiver E-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 60.0 dB(A)	Ld 7-19 dB(A)	Leq,N 60.9 dB(A)	Le 19-2
ID Fan Motor	23.7	23.7	23.7	
18-1855 A/B	16.4	16.4	16.4	
18-1856 A/B	17.3	17.3	17.3	
18-1857 A/B	16.3	16.3	16.3	
18-1858 A/B	15.8	15.8	15.8	
18-PK 1802 Air Compressor Package	25.7	25.7	25.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	24.0		26.7	
Air Compressor C 1	29.4	29.4	29.4	
Air Compressor Pump	15.1	15.1	15.1	
Blower F 401	31.3	31.3	31.3	
Boiler Crude Unit-Heater Opening	19.1	19.1	19.1	
Boiler Feed Water Pump A	15.5	15.5	15.5	
Boiler Feed Water Pump B	15.5	15.5	15.5	
C-270 A	24.9	24.9	24.9	
C-270 B	25.0	25.0	25.0	
C-270 C	25.4	25.4	25.4	
C-301 Compressor	27.1	27.1	27.1	
C-301 Motor	24.8	24.8	24.8	
C-351 Compressor	25.1	25.1	25.1	
C-351 Motor	23.5	23.5	23.5	
C370 A Motor	21.9	21.9	21.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
C370 B Motor	26.8	26.8	26.8	
C370A	22.2	22.2	22.2	
C370B	22.0	22.0	22.0	
Cars Pumping 6 times in during delivery	21.6		30.3	
Compressor House C301, C302, C 124-Comp House East 1	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House East 2	14.9	14.9	14.9	
Compressor House C301, C302, C 124-Comp House North	28.6	28.6	28.6	
Compressor House C301, C302, C 124-Comp House South 1	18.9	18.9	18.9	
Compressor House C301, C302, C 124-Comp House South 2	11.3	11.3	11.3	
Compressor House C301, C302, C 124-Comp House West	5.3	5.3	5.3	
Construction / Renewable Fuels Truck Tr	46.4	46.4	46.4	
Cooling Tower CT 510-CT 510 East Side	11.8	11.8	11.8	
Cooling Tower CT 510-CT 510 West Side	3.7	3.7	3.7	
Cooling Tower CT 511-CT 511 East Side	16.6	16.6	16.6	
Cooling Tower CT 511-CT 511 West Side	10.1	10.1	10.1	
Cooling Tower M 512	8.5	8.5	8.5	
Cooling Tower M 513	8.6	8.6	8.6	
Cooling Tower M 514	8.4	8.4	8.4	
Crude Operatoin Truck Truck Traffic	59.1	60.1	60.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	17.5	17.5	17.5	
FD Fan Assembly-FD Fan - East	22.0	22.0	22.0	
FD Fan Assembly-FD Fan - North	19.4	19.4	19.4	
FD Fan Assembly-FD Fan - Roof	21.0	21.0	21.0	
FD Fan Assembly-FD Fan - South	18.1	18.1	18.1	
FD Fan Assembly-FD Fan - West	20.3	20.3	20.3	
FD Motor	20.4	20.4	20.4	
Feed Compressor-A Compressor	22.7	22.7	22.7	
Feed Compressor-A Motor	19.9	19.9	19.9	
Feed Compressor-B Compressor	22.4	22.4	22.4	
Feed Compressor -B Motor	19.6	19.6	19.6	
H2S Compressor 18-C-271	19.4	19.4	19.4	
Heater # 5-Heater	13.4	13.4	13.4	
Heater # 5-Heater	10.3	10.3	10.3	
Heater # 5-Heater	11.4	11.4	11.4	
Hydro Heater H-402	10.7	10.7	10.7	
ID Fan-ID Fan - East (128302)	6.8	6.8	6.8	
ID Fan-ID Fan - East 1 (128306)	20.9	20.9	20.9	
ID Fan-ID Fan - North	23.7	23.7	23.7	
ID Fan-ID Fan - North 2	10.7	10.7	10.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
ID Fan-ID Fan - South	11.7	11.7	11.7	
ID Fan-ID Fan - South 2	10.8	10.8	10.8	
ID Fan-ID Fan Roof 01 (128293)	24.3	24.3	24.3	
Motor & Pump P - 1502 Splitter Reflux Pu	7.4	7.4	7.4	
Motor & Pump P - 1503 Splitter Bottoms P	11.7	11.7	11.7	
Motor & Pump P - 1504 Splitter Bottoms P	11.7	11.7	11.7	
Motor & Pump P - 1507 Reactor Pump	11.5	11.5	11.5	
Motor & Pump P - 1508 Reactor Pump	11.5	11.5	11.5	
Motor & Pump P - 1511 Stabilizer Reflux	11.5	11.5	11.5	
Motor & Pump P - 1512 Stabilizer Reflux	11.4	11.4	11.4	
Motor & Pump P - 1513 Caustic Circulatin	11.2	11.2	11.2	
Motor & Pump P - 1514 Caustic Circulatin	11.3	11.3	11.3	
Motor & Pump P 120/121	10.8	10.8	10.8	
Motor & Pump P 1505 FRESH FEED PUMPS	11.0	11.0	11.0	
Motor & Pump P 1506 FRESH FEED PUMPS	11.0	11.0	11.0	
Motor & Pump P 1509 Chloride Injection P	6.8	6.8	6.8	
Motor & Pump P 1510 Chloride Injection P	7.7	7.7	7.7	
Motor & Pump P 1601 A	10.3	10.3	10.3	
Motor & Pump P 1601 B	10.0	10.0	10.0	
Motor & Pump P 1602 A	9.6	9.6	9.6	
Motor & Pump P 1602 B	9.8	9.8	9.8	
Motor & Pump P 211/212	3.6	3.6	3.6	
Motor & Pump P 215/214	7.8	7.8	7.8	
Motor & Pump P 216	8.0	8.0	8.0	
Motor & Pump P 217/218	3.4	3.4	3.4	
Motor & Pump P 300	11.1	11.1	11.1	
Motor & Pump P 301	16.2	16.2	16.2	
Motor & Pump P 302	11.1	11.1	11.1	
Motor & Pump P 303	10.8	10.8	10.8	
Motor & Pump P 305	11.7	11.7	11.7	
Motor & Pump P 306	27.0	27.0	27.0	
Motor & Pump P 307	16.6	16.6	16.6	
Motor & Pump P 309	10.5	10.5	10.5	
Motor & Pump P 312	15.7	15.7	15.7	
Motor & Pump P 313	15.7	15.7	15.7	
Motor & Pump P 315	14.7	14.7	14.7	
Motor & Pump P 316	18.5	18.5	18.5	
Motor & Pump P 317	18.5	18.5	18.5	
Motor & Pump P 318	15.6	15.6	15.6	
Motor & Pump P 319	15.6	15.6	15.6	
Motor & Pump P 327	23.4	23.4	23.4	
Motor & Pump P 328	23.2	23.2	23.2	
Motor & Pump P 329	23.2	23.2	23.2	
Motor & Pump P 451	7.1	7.1	7.1	
Motor & Pump P 453	5.5	5.5	5.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 454	7.2	7.2	7.2	
Motor & Pump P 457	5.5	5.5	5.5	
Motor & Pump P 458	7.1	7.1	7.1	
Motor & Pump P 459	7.2	7.2	7.2	
Motor & Pump P 56A/B	4.3	4.3	4.3	
Nitrogen Skid w Compressor 18-PK 1806	17.9	17.9	17.9	
P-060 A/B	16.8	16.8	16.8	
P-1101 A	16.5	16.5	16.5	
P-1103	16.5	16.5	16.5	
P-1105 A/B/C	16.5	16.5	16.5	
P-1800	18.6	18.6	18.6	
P-1801	17.4	17.4	17.4	
P-1802	19.5	19.5	19.5	
P-1803	16.2	16.2	16.2	
P-1804	16.5	16.5	16.5	
P-1805	16.5	16.5	16.5	
P-1806	15.9	15.9	15.9	
P-1809 A	16.3	16.3	16.3	
P-1810 A/B/C	16.4	16.4	16.4	
P-1811 A/B	17.9	17.9	17.9	
P-1811 A/B	16.5	16.5	16.5	
P-1847 A/B	18.8	18.8	18.8	
P-1849 A/B	18.7	18.7	18.7	
P-1853	16.1	16.1	16.1	
P-2 A/B	33.6	33.6	33.6	
P-251 A/B	16.4	16.4	16.4	
P-252 A/B	15.8	15.8	15.8	
P-253	17.0	17.0	17.0	
P-254 A/B	16.7	16.7	16.7	
P-255 A/B	16.6	16.6	16.6	
P-255 A/B	15.2	15.2	15.2	
P-256 A/B	16.5	16.5	16.5	
P-259 A/B	16.4	16.4	16.4	
P-260	16.8	16.8	16.8	
P-261 A/B	15.1	15.1	15.1	
P-262 A/B	16.4	16.4	16.4	
P-263 A/B	16.8	16.8	16.8	
P-270 A/B	17.7	17.7	17.7	
P-271 A/B	17.1	17.1	17.1	
P-272 A/B	16.9	16.9	16.9	
P-273 A/B	17.6	17.6	17.6	
P-275 A/B/C	17.2	17.2	17.2	
P-305	16.9	16.9	16.9	
P-306	18.1	18.1	18.1	
P-309	17.1	17.1	17.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-328	17.5	17.5	17.5	
P-329	18.1	18.1	18.1	
P-353	16.1	16.1	16.1	
P-358 A/B	16.6	16.6	16.6	
P-359 A/B	17.1	17.1	17.1	
P-360 A/B	16.2	16.2	16.2	
P-361A	15.0	15.0	15.0	
P-371 A/B	11.2	11.2	11.2	
P-373 A/B	17.2	17.2	17.2	
P-374 A/B	17.1	17.1	17.1	
P-375 A/B	11.3	11.3	11.3	
P-376	17.1	17.1	17.1	
P-376 A/B	17.2	17.2	17.2	
P-377	11.4	11.4	11.4	
P-50 A/B	16.2	16.2	16.2	
P-51 A/B	15.6	15.6	15.6	
P-63	15.9	15.9	15.9	
P-70 A/B	16.2	16.2	16.2	
P-73 A/B	33.0	33.0	33.0	
Piping Furnace Tanks	-6.1	-6.1	-6.1	
Piping Hydrogen Tanks Compressor	7.5	7.5	7.5	
Piping Hydrogen Tanks Compressor w NC	26.3	26.3	26.3	
Piping Hydrogen Tanks Compressorw NC	21.7	21.7	21.7	
Pre-Treat Train-Pre-Treat Outside Area E	47.1	47.1	47.1	
Pre-Treat Train-Pre-Treat Outside Area N	45.1	45.1	45.1	
Pre-Treat Train-Pre-Treat Outside Area N2	23.3	23.3	23.3	
Pre-Treat Train-Pre-Treat Outside Area S	30.4	30.4	30.4	
Pre-Treat Train-Pre-Treat Outside Area S2	22.3	22.3	22.3	
Pre-Treat Train-Pre-Treat Outside Area W1	22.3	22.3	22.3	
Pre-Treat Train-Pre-Treat Outside Area W2	24.8	24.8	24.8	
Pre-Treat Train-Pre-Treat Outside Area W3	24.7	24.7	24.7	
Pre-Treat Train-Roof 01	44.8	44.8	44.8	
PSA Pipe 3" Lagging	-5.1	-5.1	-5.1	
PSA Skid Additional Piping w NC	28.0	28.0	28.0	
Reformer-Burner Reformer East	18.5	18.5	18.5	
Reformer-Burner Reformer North	8.8	8.8	8.8	
Reformer-Burner Reformer South	14.0	14.0	14.0	
Reformer-Burner Reformer West	12.8	12.8	12.8	
Revised Renewable Fuels Delivery for Pre	31.7	32.7	32.7	
Revised Renewable Fuels Delivery for Pre	28.4	29.3	29.3	
RFG A from battery to process	8.8	8.8	8.8	
RFG A from battery to process w NC	21.2	21.2	21.2	
Stack Noise	35.0	35.0	35.0	
Steam Turbine-Facade 01	8.6	8.6	8.6	
Steam Turbine-Facade 02	5.5	5.5	5.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Steam Turbine-Facade 03	8.4	8.4	8.4	
Steam Turbine-Facade 04	5.1	5.1	5.1	
Steam Turbine-Roof 01	8.7	8.7	8.7	
Tank Farm Pump 1	18.2	18.2	18.2	
Tank Farm Pump 2	18.6	18.6	18.6	
Tank Farm Pump 3	18.0	18.0	18.0	
UP Train Locomotive Delivery and Pickup 2022 2x	18.6		27.4	
XF-1502 Splitter Area 1	18.6	18.6	18.6	
XF-1502 Splitter Area 2	18.6	18.6	18.6	
XF-1504 Splitter Area 1	18.7	18.7	18.7	
XF-1504 Splitter Area 2	18.7	18.7	18.7	
XF - 1601	16.7	16.7	16.7	
XF - 1602	16.7	16.7	16.7	
XF 251, 250, 271, 270	23.5	23.5	23.5	
XF 260, 261A, 261 B	20.1	20.1	20.1	
XF 304, XF 321	29.3	29.3	29.3	
XF 313, XF 314	29.3	29.3	29.3	
XF 335-1, XF 335-2	31.3	31.3	31.3	
XF 353A/B	18.4	18.4	18.4	
XF 353A/B	18.0	18.0	18.0	
XF 354A/B	18.2	18.2	18.2	
XF 503	22.9	22.9	22.9	
XF Module 1510	22.1	22.1	22.1	
XF Module 1519	22.9	22.9	22.9	
Receiver E-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 60.4 dB(A)	Ld 7-19 dB(A)	Leq,N 61.1 dB(A)	Le 19-2
ID Fan Motor	24.4	24.4	24.4	
18-1855 A/B	20.2	20.2	20.2	
18-1856 A/B	20.9	20.9	20.9	
18-1857 A/B	18.0	18.0	18.0	
18-1858 A/B	18.6	18.6	18.6	
18-PK 1802 Air Compressor Package	39.0	39.0	39.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	28.8		31.5	
Air Compressor C 1	30.4	30.4	30.4	
Air Compressor Pump	16.8	16.8	16.8	
Blower F 401	32.6	32.6	32.6	
Boiler Crude Unit-Heater Opening	20.0	20.0	20.0	
Boiler Feed Water Pump A	17.4	17.4	17.4	
Boiler Feed Water Pump B	17.4	17.4	17.4	
C-270 A	25.6	25.6	25.6	
C-270 B	25.6	25.6	25.6	
C-270 C	25.6	25.6	25.6	
C-301 Compressor	26.6	26.6	26.6	
C-301 Motor	24.5	24.5	24.5	
C-351 Compressor	26.4	26.4	26.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
C-351 Motor	24.5	24.5	24.5	
C370 A Motor	23.4	23.4	23.4	
C370 B Motor	27.9	27.9	27.9	
C370A	23.7	23.7	23.7	
C370B	23.9	23.9	23.9	
Cars Pumping 6 times in during delivery	25.6		34.4	
Compressor House C301, C302, C 124-Comp House East 1	17.8	17.8	17.8	
Compressor House C301, C302, C 124-Comp House East 2	14.0	14.0	14.0	
Compressor House C301, C302, C 124-Comp House North	24.8	24.8	24.8	
Compressor House C301, C302, C 124-Comp House South 1	21.1	21.1	21.1	
Compressor House C301, C302, C 124-Comp House South 2	14.4	14.4	14.4	
Compressor House C301, C302, C 124-Comp House West	4.5	4.5	4.5	
Construction / Renewable Fuels Truck Tr	48.3	48.3	48.3	
Cooling Tower CT 510-CT 510 East Side	11.2	11.2	11.2	
Cooling Tower CT 510-CT 510 West Side	2.8	2.8	2.8	
Cooling Tower CT 511-CT 511 East Side	18.7	18.7	18.7	
Cooling Tower CT 511-CT 511 West Side	10.3	10.3	10.3	
Cooling Tower M 512	9.0	9.0	9.0	
Cooling Tower M 513	9.2	9.2	9.2	
Cooling Tower M 514	8.8	8.8	8.8	
Crude Operatoin Truck Truck Traffic	59.0	59.9	59.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	18.8	18.8	18.8	
FD Fan Assembly-FD Fan - East	24.1	24.1	24.1	
FD Fan Assembly-FD Fan - North	21.6	21.6	21.6	
FD Fan Assembly-FD Fan - Roof	23.1	23.1	23.1	
FD Fan Assembly-FD Fan - South	19.1	19.1	19.1	
FD Fan Assembly-FD Fan - West	21.0	21.0	21.0	
FD Motor	21.6	21.6	21.6	
Feed Compressor-A Compressor	24.4	24.4	24.4	
Feed Compressor-A Motor	21.7	21.7	21.7	
Feed Compressor-B Compressor	24.1	24.1	24.1	
Feed Compressor -B Motor	21.2	21.2	21.2	
H2S Compressor 18-C-271	21.3	21.3	21.3	
Heater # 5-Heater	13.9	13.9	13.9	
Heater # 5-Heater	12.3	12.3	12.3	
Heater # 5-Heater	12.7	12.7	12.7	
Hydro Heater H-402	11.9	11.9	11.9	
ID Fan-ID Fan - East (128302)	6.3	6.3	6.3	
ID Fan-ID Fan - East 1 (128306)	6.3	6.3	6.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
ID Fan-ID Fan - North	11.6	11.6	11.6	
ID Fan-ID Fan - North 2	10.7	10.7	10.7	
ID Fan-ID Fan - South	11.4	11.4	11.4	
ID Fan-ID Fan - South 2	10.2	10.2	10.2	
ID Fan-ID Fan Roof 01 (128293)	13.2	13.2	13.2	
Motor & Pump P - 1502 Splitter Reflux Pu	7.8	7.8	7.8	
Motor & Pump P - 1503 Splitter Bottoms P	11.0	11.0	11.0	
Motor & Pump P - 1504 Splitter Bottoms P	12.1	12.1	12.1	
Motor & Pump P - 1507 Reactor Pump	7.5	7.5	7.5	
Motor & Pump P - 1508 Reactor Pump	11.1	11.1	11.1	
Motor & Pump P - 1511 Stabilizer Reflux	12.3	12.3	12.3	
Motor & Pump P - 1512 Stabilizer Reflux	12.2	12.2	12.2	
Motor & Pump P - 1513 Caustic Circulatin	12.1	12.1	12.1	
Motor & Pump P - 1514 Caustic Circulatin	12.2	12.2	12.2	
Motor & Pump P 120/121	10.6	10.6	10.6	
Motor & Pump P 1505 FRESH FEED PUMPS	7.2	7.2	7.2	
Motor & Pump P 1506 FRESH FEED PUMPS	7.2	7.2	7.2	
Motor & Pump P 1509 Chloride Injection P	7.5	7.5	7.5	
Motor & Pump P 1510 Chloride Injection P	7.6	7.6	7.6	
Motor & Pump P 1601 A	7.9	7.9	7.9	
Motor & Pump P 1601 B	7.9	7.9	7.9	
Motor & Pump P 1602 A	7.9	7.9	7.9	
Motor & Pump P 1602 B	8.1	8.1	8.1	
Motor & Pump P 211/212	9.0	9.0	9.0	
Motor & Pump P 215/214	8.4	8.4	8.4	
Motor & Pump P 216	12.9	12.9	12.9	
Motor & Pump P 217/218	8.0	8.0	8.0	
Motor & Pump P 300	11.6	11.6	11.6	
Motor & Pump P 301	16.6	16.6	16.6	
Motor & Pump P 302	11.6	11.6	11.6	
Motor & Pump P 303	11.6	11.6	11.6	
Motor & Pump P 305	11.2	11.2	11.2	
Motor & Pump P 306	27.4	27.4	27.4	
Motor & Pump P 307	18.5	18.5	18.5	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	17.3	17.3	17.3	
Motor & Pump P 313	18.1	18.1	18.1	
Motor & Pump P 315	19.6	19.6	19.6	
Motor & Pump P 316	18.9	18.9	18.9	
Motor & Pump P 317	14.6	14.6	14.6	
Motor & Pump P 318	16.8	16.8	16.8	
Motor & Pump P 319	16.8	16.8	16.8	
Motor & Pump P 327	23.3	23.3	23.3	
Motor & Pump P 328	24.0	24.0	24.0	
Motor & Pump P 329	23.7	23.7	23.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 451	9.9	9.9	9.9	
Motor & Pump P 453	9.8	9.8	9.8	
Motor & Pump P 454	9.9	9.9	9.9	
Motor & Pump P 457	9.8	9.8	9.8	
Motor & Pump P 458	9.9	9.9	9.9	
Motor & Pump P 459	10.0	10.0	10.0	
Motor & Pump P 56A/B	5.9	5.9	5.9	
Nitrogen Skid w Compressor 18-PK 1806	19.2	19.2	19.2	
P-060 A/B	17.4	17.4	17.4	
P-1101 A	17.1	17.1	17.1	
P-1103	17.1	17.1	17.1	
P-1105 A/B/C	17.3	17.3	17.3	
P-1800	19.4	19.4	19.4	
P-1801	19.0	19.0	19.0	
P-1802	18.3	18.3	18.3	
P-1803	17.7	17.7	17.7	
P-1804	18.1	18.1	18.1	
P-1805	18.1	18.1	18.1	
P-1806	17.2	17.2	17.2	
P-1809 A	19.5	19.5	19.5	
P-1810 A/B/C	18.1	18.1	18.1	
P-1811 A/B	17.7	17.7	17.7	
P-1811 A/B	18.2	18.2	18.2	
P-1847 A/B	25.4	25.4	25.4	
P-1849 A/B	25.6	25.6	25.6	
P-1853	17.4	17.4	17.4	
P-2 A/B	17.6	17.6	17.6	
P-251 A/B	17.5	17.5	17.5	
P-252 A/B	17.6	17.6	17.6	
P-253	17.7	17.7	17.7	
P-254 A/B	17.8	17.8	17.8	
P-255 A/B	17.7	17.7	17.7	
P-255 A/B	17.3	17.3	17.3	
P-256 A/B	17.6	17.6	17.6	
P-259 A/B	17.4	17.4	17.4	
P-260	28.8	28.8	28.8	
P-261 A/B	30.5	30.5	30.5	
P-262 A/B	29.2	29.2	29.2	
P-263 A/B	29.1	29.1	29.1	
P-270 A/B	18.3	18.3	18.3	
P-271 A/B	18.1	18.1	18.1	
P-272 A/B	17.9	17.9	17.9	
P-273 A/B	18.2	18.2	18.2	
P-275 A/B/C	18.2	18.2	18.2	
P-305	17.3	17.3	17.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-306	18.0	18.0	18.0	
P-309	17.3	17.3	17.3	
P-328	17.9	17.9	17.9	
P-329	17.9	17.9	17.9	
P-353	17.2	17.2	17.2	
P-358 A/B	17.1	17.1	17.1	
P-359 A/B	20.0	20.0	20.0	
P-360 A/B	17.1	17.1	17.1	
P-361A	16.4	16.4	16.4	
P-371 A/B	17.1	17.1	17.1	
P-373 A/B	17.2	17.2	17.2	
P-374 A/B	17.2	17.2	17.2	
P-375 A/B	17.1	17.1	17.1	
P-376	17.2	17.2	17.2	
P-376 A/B	17.3	17.3	17.3	
P-377	17.1	17.1	17.1	
P-50 A/B	16.7	16.7	16.7	
P-51 A/B	16.7	16.7	16.7	
P-63	16.8	16.8	16.8	
P-70 A/B	17.5	17.5	17.5	
P-73 A/B	17.7	17.7	17.7	
Piping Furnace Tanks	-3.0	-3.0	-3.0	
Piping Hydrogen Tanks Compressor	9.1	9.1	9.1	
Piping Hydrogen Tanks Compressor w NC	26.1	26.1	26.1	
Piping Hydrogen Tanks Compressorw NC	20.9	20.9	20.9	
Pre-Treat Train-Pre-Treat Outside Area E	47.7	47.7	47.7	
Pre-Treat Train-Pre-Treat Outside Area N	48.9	48.9	48.9	
Pre-Treat Train-Pre-Treat Outside Area N2	29.3	29.3	29.3	
Pre-Treat Train-Pre-Treat Outside Area S	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area S2	23.6	23.6	23.6	
Pre-Treat Train-Pre-Treat Outside Area W1	24.3	24.3	24.3	
Pre-Treat Train-Pre-Treat Outside Area W2	26.5	26.5	26.5	
Pre-Treat Train-Pre-Treat Outside Area W3	26.1	26.1	26.1	
Pre-Treat Train-Roof 01	46.7	46.7	46.7	
PSA Pipe 3" Lagging	-8.5	-8.5	-8.5	
PSA Skid Additional Piping w NC	28.1	28.1	28.1	
Reformer-Burner Reformer East	26.3	26.3	26.3	
Reformer-Burner Reformer North	8.4	8.4	8.4	
Reformer-Burner Reformer South	15.2	15.2	15.2	
Reformer-Burner Reformer West	12.8	12.8	12.8	
Revised Renewable Fuels Delivery for Pre	31.5	32.5	32.5	
Revised Renewable Fuels Delivery for Pre	28.0	28.9	28.9	
RFG A from battery to process	10.3	10.3	10.3	
RFG A from battery to process w NC	20.7	20.7	20.7	
Stack Noise	36.0	36.0	36.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Steam Turbine-Facade 01	10.7	10.7	10.7	
Steam Turbine-Facade 02	10.0	10.0	10.0	
Steam Turbine-Facade 03	9.4	9.4	9.4	
Steam Turbine-Facade 04	7.2	7.2	7.2	
Steam Turbine-Roof 01	13.4	13.4	13.4	
Tank Farm Pump 1	18.5	18.5	18.5	
Tank Farm Pump 2	19.2	19.2	19.2	
Tank Farm Pump 3	18.3	18.3	18.3	
UP Train Locomotive Delivery and Pickup 2022 2x	19.2		28.0	
XF-1502 Splitter Area 1	19.7	19.7	19.7	
XF-1502 Splitter Area 2	19.9	19.9	19.9	
XF-1504 Splitter Area 1	19.8	19.8	19.8	
XF-1504 Splitter Area 2	20.0	20.0	20.0	
XF - 1601	15.5	15.5	15.5	
XF - 1602	15.4	15.4	15.4	
XF 251, 250, 271, 270	24.8	24.8	24.8	
XF 260, 261A, 261 B	28.5	28.5	28.5	
XF 304, XF 321	29.2	29.2	29.2	
XF 313, XF 314	29.5	29.5	29.5	
XF 335-1, XF 335-2	32.4	32.4	32.4	
XF 353A/B	19.7	19.7	19.7	
XF 353A/B	19.3	19.3	19.3	
XF 354A/B	18.8	18.8	18.8	
XF 503	21.8	21.8	21.8	
XF Module 1510	17.1	17.1	17.1	
XF Module 1519	24.1	24.1	24.1	
Receiver E-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 56.8 dB(A)	Ld 7-19 dB(A)	Leq,N 57.5 dB(A)	Le 19-2
ID Fan Motor	21.6	21.6	21.6	
18-1855 A/B	18.7	18.7	18.7	
18-1856 A/B	18.7	18.7	18.7	
18-1857 A/B	18.6	18.6	18.6	
18-1858 A/B	17.8	17.8	17.8	
18-PK 1802 Air Compressor Package	26.3	26.3	26.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	25.1		27.9	
Air Compressor C 1	32.9	32.9	32.9	
Air Compressor Pump	15.0	15.0	15.0	
Blower F 401	32.4	32.4	32.4	
Boiler Crude Unit-Heater Opening	19.3	19.3	19.3	
Boiler Feed Water Pump A	21.3	21.3	21.3	
Boiler Feed Water Pump B	21.4	21.4	21.4	
C-270 A	24.6	24.6	24.6	
C-270 B	24.9	24.9	24.9	
C-270 C	25.1	25.1	25.1	
C-301 Compressor	25.7	25.7	25.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
C-301 Motor	23.6	23.6	23.6	
C-351 Compressor	25.8	25.8	25.8	
C-351 Motor	23.8	23.8	23.8	
C370 A Motor	25.0	25.0	25.0	
C370 B Motor	28.6	28.6	28.6	
C370A	26.9	26.9	26.9	
C370B	27.0	27.0	27.0	
Cars Pumping 6 times in during delivery	22.8		31.6	
Compressor House C301, C302, C 124-Comp House East 1	18.4	18.4	18.4	
Compressor House C301, C302, C 124-Comp House East 2	17.1	17.1	17.1	
Compressor House C301, C302, C 124-Comp House North	19.2	19.2	19.2	
Compressor House C301, C302, C 124-Comp House South 1	28.1	28.1	28.1	
Compressor House C301, C302, C 124-Comp House South 2	22.6	22.6	22.6	
Compressor House C301, C302, C 124-Comp House West	4.6	4.6	4.6	
Construction / Renewable Fuels Truck Tr	48.6	48.6	48.6	
Cooling Tower CT 510-CT 510 East Side	12.8	12.8	12.8	
Cooling Tower CT 510-CT 510 West Side	4.4	4.4	4.4	
Cooling Tower CT 511-CT 511 East Side	20.1	20.1	20.1	
Cooling Tower CT 511-CT 511 West Side	10.7	10.7	10.7	
Cooling Tower M 512	13.0	13.0	13.0	
Cooling Tower M 513	13.0	13.0	13.0	
Cooling Tower M 514	13.1	13.1	13.1	
Crude Operatoin Truck Truck Traffic	55.3	56.3	56.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	19.0	19.0	19.0	
FD Fan Assembly-FD Fan - East	27.9	27.9	27.9	
FD Fan Assembly-FD Fan - North	19.8	19.8	19.8	
FD Fan Assembly-FD Fan - Roof	28.3	28.3	28.3	
FD Fan Assembly-FD Fan - South	27.4	27.4	27.4	
FD Fan Assembly-FD Fan - West	21.8	21.8	21.8	
FD Motor	22.7	22.7	22.7	
Feed Compressor-A Compressor	27.4	27.4	27.4	
Feed Compressor-A Motor	22.2	22.2	22.2	
Feed Compressor-B Compressor	26.7	26.7	26.7	
Feed Compressor -B Motor	21.9	21.9	21.9	
H2S Compressor 18-C-271	17.7	17.7	17.7	
Heater # 5-Heater	13.9	13.9	13.9	
Heater # 5-Heater	13.1	13.1	13.1	
Heater # 5-Heater	13.6	13.6	13.6	
Hydro Heater H-402	12.4	12.4	12.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
ID Fan-ID Fan - East (128302)	7.1	7.1	7.1	
ID Fan-ID Fan - East 1 (128306)	6.3	6.3	6.3	
ID Fan-ID Fan - North	11.6	11.6	11.6	
ID Fan-ID Fan - North 2	10.6	10.6	10.6	
ID Fan-ID Fan - South	12.3	12.3	12.3	
ID Fan-ID Fan - South 2	11.2	11.2	11.2	
ID Fan-ID Fan Roof 01 (128293)	13.7	13.7	13.7	
Motor & Pump P - 1502 Splitter Reflux Pu	8.0	8.0	8.0	
Motor & Pump P - 1503 Splitter Bottoms P	8.4	8.4	8.4	
Motor & Pump P - 1504 Splitter Bottoms P	8.1	8.1	8.1	
Motor & Pump P - 1507 Reactor Pump	7.8	7.8	7.8	
Motor & Pump P - 1508 Reactor Pump	8.9	8.9	8.9	
Motor & Pump P - 1511 Stabilizer Reflux	7.9	7.9	7.9	
Motor & Pump P - 1512 Stabilizer Reflux	7.8	7.8	7.8	
Motor & Pump P - 1513 Caustic Circulatin	7.6	7.6	7.6	
Motor & Pump P - 1514 Caustic Circulatin	7.7	7.7	7.7	
Motor & Pump P 120/121	23.1	23.1	23.1	
Motor & Pump P 1505 FRESH FEED PUMPS	7.3	7.3	7.3	
Motor & Pump P 1506 FRESH FEED PUMPS	7.3	7.3	7.3	
Motor & Pump P 1509 Chloride Injection P	18.0	18.0	18.0	
Motor & Pump P 1510 Chloride Injection P	17.9	17.9	17.9	
Motor & Pump P 1601 A	8.0	8.0	8.0	
Motor & Pump P 1601 B	8.0	8.0	8.0	
Motor & Pump P 1602 A	8.0	8.0	8.0	
Motor & Pump P 1602 B	8.6	8.6	8.6	
Motor & Pump P 211/212	9.7	9.7	9.7	
Motor & Pump P 215/214	10.6	10.6	10.6	
Motor & Pump P 216	14.1	14.1	14.1	
Motor & Pump P 217/218	9.6	9.6	9.6	
Motor & Pump P 300	18.2	18.2	18.2	
Motor & Pump P 301	29.0	29.0	29.0	
Motor & Pump P 302	24.4	24.4	24.4	
Motor & Pump P 303	24.4	24.4	24.4	
Motor & Pump P 305	25.0	25.0	25.0	
Motor & Pump P 306	27.7	27.7	27.7	
Motor & Pump P 307	17.7	17.7	17.7	
Motor & Pump P 309	12.0	12.0	12.0	
Motor & Pump P 312	13.9	13.9	13.9	
Motor & Pump P 313	15.0	15.0	15.0	
Motor & Pump P 315	15.0	15.0	15.0	
Motor & Pump P 316	14.6	14.6	14.6	
Motor & Pump P 317	15.0	15.0	15.0	
Motor & Pump P 318	12.4	12.4	12.4	
Motor & Pump P 319	13.7	13.7	13.7	
Motor & Pump P 327	23.4	23.4	23.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 328	24.9	24.9	24.9	
Motor & Pump P 329	23.7	23.7	23.7	
Motor & Pump P 451	10.4	10.4	10.4	
Motor & Pump P 453	12.7	12.7	12.7	
Motor & Pump P 454	10.4	10.4	10.4	
Motor & Pump P 457	12.7	12.7	12.7	
Motor & Pump P 458	10.5	10.5	10.5	
Motor & Pump P 459	10.4	10.4	10.4	
Motor & Pump P 56A/B	7.8	7.8	7.8	
Nitrogen Skid w Compressor 18-PK 1806	21.8	21.8	21.8	
P-060 A/B	19.8	19.8	19.8	
P-1101 A	18.5	18.5	18.5	
P-1103	18.3	18.3	18.3	
P-1105 A/B/C	18.7	18.7	18.7	
P-1800	20.7	20.7	20.7	
P-1801	21.5	21.5	21.5	
P-1802	22.0	22.0	22.0	
P-1803	18.7	18.7	18.7	
P-1804	19.0	19.0	19.0	
P-1805	19.3	19.3	19.3	
P-1806	18.4	18.4	18.4	
P-1809 A	20.5	20.5	20.5	
P-1810 A/B/C	19.1	19.1	19.1	
P-1811 A/B	18.4	18.4	18.4	
P-1811 A/B	21.5	21.5	21.5	
P-1847 A/B	26.2	26.2	26.2	
P-1849 A/B	26.4	26.4	26.4	
P-1853	17.2	17.2	17.2	
P-2 A/B	18.7	18.7	18.7	
P-251 A/B	16.0	16.0	16.0	
P-252 A/B	16.6	16.6	16.6	
P-253	17.0	17.0	17.0	
P-254 A/B	16.5	16.5	16.5	
P-255 A/B	16.4	16.4	16.4	
P-255 A/B	15.9	15.9	15.9	
P-256 A/B	16.0	16.0	16.0	
P-259 A/B	15.9	15.9	15.9	
P-260	17.1	17.1	17.1	
P-261 A/B	16.3	16.3	16.3	
P-262 A/B	17.1	17.1	17.1	
P-263 A/B	17.4	17.4	17.4	
P-270 A/B	16.8	16.8	16.8	
P-271 A/B	16.9	16.9	16.9	
P-272 A/B	16.8	16.8	16.8	
P-273 A/B	16.8	16.8	16.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-275 A/B/C	16.9	16.9	16.9	
P-305	16.6	16.6	16.6	
P-306	18.9	18.9	18.9	
P-309	16.6	16.6	16.6	
P-328	18.8	18.8	18.8	
P-329	19.0	19.0	19.0	
P-353	16.9	16.9	16.9	
P-358 A/B	18.8	18.8	18.8	
P-359 A/B	19.8	19.8	19.8	
P-360 A/B	17.4	17.4	17.4	
P-361A	17.4	17.4	17.4	
P-371 A/B	19.4	19.4	19.4	
P-373 A/B	19.6	19.6	19.6	
P-374 A/B	19.5	19.5	19.5	
P-375 A/B	19.4	19.4	19.4	
P-376	19.5	19.5	19.5	
P-376 A/B	19.6	19.6	19.6	
P-377	19.5	19.5	19.5	
P-50 A/B	17.1	17.1	17.1	
P-51 A/B	17.1	17.1	17.1	
P-63	17.4	17.4	17.4	
P-70 A/B	19.1	19.1	19.1	
P-73 A/B	18.7	18.7	18.7	
Piping Furnace Tanks	-1.8	-1.8	-1.8	
Piping Hydrogen Tanks Compressor	9.9	9.9	9.9	
Piping Hydrogen Tanks Compressor w NC	26.1	26.1	26.1	
Piping Hydrogen Tanks Compressorw NC	20.8	20.8	20.8	
Pre-Treat Train-Pre-Treat Outside Area E	36.1	36.1	36.1	
Pre-Treat Train-Pre-Treat Outside Area N	41.6	41.6	41.6	
Pre-Treat Train-Pre-Treat Outside Area N2	24.9	24.9	24.9	
Pre-Treat Train-Pre-Treat Outside Area S	32.0	32.0	32.0	
Pre-Treat Train-Pre-Treat Outside Area S2	23.6	23.6	23.6	
Pre-Treat Train-Pre-Treat Outside Area W1	24.1	24.1	24.1	
Pre-Treat Train-Pre-Treat Outside Area W2	26.2	26.2	26.2	
Pre-Treat Train-Pre-Treat Outside Area W3	26.2	26.2	26.2	
Pre-Treat Train-Roof 01	39.4	39.4	39.4	
PSA Pipe 3" Lagging	-8.7	-8.7	-8.7	
PSA Skid Additional Piping w NC	28.1	28.1	28.1	
Reformer-Burner Reformer East	21.9	21.9	21.9	
Reformer-Burner Reformer North	8.5	8.5	8.5	
Reformer-Burner Reformer South	14.9	14.9	14.9	
Reformer-Burner Reformer West	18.8	18.8	18.8	
Revised Renewable Fuels Delivery for Pre	23.1	24.1	24.1	
Revised Renewable Fuels Delivery for Pre	21.4	22.4	22.4	
RFG A from battery to process	10.8	10.8	10.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
RFG A from battery to process w NC	20.8	20.8	20.8	
Stack Noise	33.7	33.7	33.7	
Steam Turbine-Facade 01	15.7	15.7	15.7	
Steam Turbine-Facade 02	11.5	11.5	11.5	
Steam Turbine-Facade 03	12.6	12.6	12.6	
Steam Turbine-Facade 04	10.4	10.4	10.4	
Steam Turbine-Roof 01	15.9	15.9	15.9	
Tank Farm Pump 1	18.3	18.3	18.3	
Tank Farm Pump 2	19.8	19.8	19.8	
Tank Farm Pump 3	21.3	21.3	21.3	
UP Train Locomotive Delivery and Pickup 2022 2x	20.3		29.1	
XF-1502 Splitter Area 1	13.8	13.8	13.8	
XF-1502 Splitter Area 2	12.5	12.5	12.5	
XF-1504 Splitter Area 1	13.2	13.2	13.2	
XF-1504 Splitter Area 2	12.0	12.0	12.0	
XF - 1601	11.1	11.1	11.1	
XF - 1602	11.0	11.0	11.0	
XF 251, 250, 271, 270	22.4	22.4	22.4	
XF 260, 261A, 261 B	21.0	21.0	21.0	
XF 304, XF 321	32.7	32.7	32.7	
XF 313, XF 314	31.0	31.0	31.0	
XF 335-1, XF 335-2	33.2	33.2	33.2	
XF 353A/B	18.0	18.0	18.0	
XF 353A/B	17.2	17.2	17.2	
XF 354A/B	17.7	17.7	17.7	
XF 503	27.1	27.1	27.1	
XF Module 1510	17.6	17.6	17.6	
XF Module 1519	16.9	16.9	16.9	
Receiver E-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 58.0 dB(A)	Ld 7-19 dB(A)	Leq,N 58.4 dB(A)	Le 19-2
ID Fan Motor	21.2	21.2	21.2	
18-1855 A/B	21.5	21.5	21.5	
18-1856 A/B	21.1	21.1	21.1	
18-1857 A/B	21.5	21.5	21.5	
18-1858 A/B	21.6	21.6	21.6	
18-PK 1802 Air Compressor Package	28.9	28.9	28.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	28.6		31.4	
Air Compressor C 1	29.0	29.0	29.0	
Air Compressor Pump	16.2	16.2	16.2	
Blower F 401	33.3	33.3	33.3	
Boiler Crude Unit-Heater Opening	20.3	20.3	20.3	
Boiler Feed Water Pump A	18.0	18.0	18.0	
Boiler Feed Water Pump B	18.4	18.4	18.4	
C-270 A	26.8	26.8	26.8	
C-270 B	27.2	27.2	27.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
C-270 C	27.9	27.9	27.9	
C-301 Compressor	28.0	28.0	28.0	
C-301 Motor	25.7	25.7	25.7	
C-351 Compressor	28.6	28.6	28.6	
C-351 Motor	26.2	26.2	26.2	
C370 A Motor	23.3	23.3	23.3	
C370 B Motor	26.4	26.4	26.4	
C370A	23.1	23.1	23.1	
C370B	23.2	23.2	23.2	
Cars Pumping 6 times in during delivery	26.1		34.8	
Compressor House C301, C302, C 124-Comp House East 1	19.8	19.8	19.8	
Compressor House C301, C302, C 124-Comp House East 2	16.9	16.9	16.9	
Compressor House C301, C302, C 124-Comp House North	17.6	17.6	17.6	
Compressor House C301, C302, C 124-Comp House South 1	28.4	28.4	28.4	
Compressor House C301, C302, C 124-Comp House South 2	19.9	19.9	19.9	
Compressor House C301, C302, C 124-Comp House West	4.4	4.4	4.4	
Construction / Renewable Fuels Truck Tr	55.0	55.0	55.0	
Cooling Tower CT 510-CT 510 East Side	12.7	12.7	12.7	
Cooling Tower CT 510-CT 510 West Side	4.1	4.1	4.1	
Cooling Tower CT 511-CT 511 East Side	20.0	20.0	20.0	
Cooling Tower CT 511-CT 511 West Side	10.0	10.0	10.0	
Cooling Tower M 512	12.5	12.5	12.5	
Cooling Tower M 513	12.5	12.5	12.5	
Cooling Tower M 514	12.5	12.5	12.5	
Crude Operatoin Truck Truck Traffic	53.7	54.7	54.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	16.8	16.8	16.8	
FD Fan Assembly-FD Fan - East	21.8	21.8	21.8	
FD Fan Assembly-FD Fan - North	17.4	17.4	17.4	
FD Fan Assembly-FD Fan - Roof	20.4	20.4	20.4	
FD Fan Assembly-FD Fan - South	20.2	20.2	20.2	
FD Fan Assembly-FD Fan - West	19.6	19.6	19.6	
FD Motor	20.3	20.3	20.3	
Feed Compressor-A Compressor	23.6	23.6	23.6	
Feed Compressor-A Motor	23.2	23.2	23.2	
Feed Compressor-B Compressor	23.5	23.5	23.5	
Feed Compressor -B Motor	20.9	20.9	20.9	
H2S Compressor 18-C-271	17.6	17.6	17.6	
Heater # 5-Heater	15.0	15.0	15.0	
Heater # 5-Heater	13.4	13.4	13.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Heater # 5-Heater	14.6	14.6	14.6	
Hydro Heater H-402	12.2	12.2	12.2	
ID Fan-ID Fan - East (128302)	11.6	11.6	11.6	
ID Fan-ID Fan - East 1 (128306)	6.3	6.3	6.3	
ID Fan-ID Fan - North	11.5	11.5	11.5	
ID Fan-ID Fan - North 2	10.6	10.6	10.6	
ID Fan-ID Fan - South	19.2	19.2	19.2	
ID Fan-ID Fan - South 2	10.3	10.3	10.3	
ID Fan-ID Fan Roof 01 (128293)	16.6	16.6	16.6	
Motor & Pump P - 1502 Splitter Reflux Pu	10.9	10.9	10.9	
Motor & Pump P - 1503 Splitter Bottoms P	9.9	9.9	9.9	
Motor & Pump P - 1504 Splitter Bottoms P	7.5	7.5	7.5	
Motor & Pump P - 1507 Reactor Pump	10.8	10.8	10.8	
Motor & Pump P - 1508 Reactor Pump	10.0	10.0	10.0	
Motor & Pump P - 1511 Stabilizer Reflux	7.7	7.7	7.7	
Motor & Pump P - 1512 Stabilizer Reflux	7.6	7.6	7.6	
Motor & Pump P - 1513 Caustic Circulatin	7.5	7.5	7.5	
Motor & Pump P - 1514 Caustic Circulatin	7.5	7.5	7.5	
Motor & Pump P 120/121	9.1	9.1	9.1	
Motor & Pump P 1505 FRESH FEED PUMPS	7.1	7.1	7.1	
Motor & Pump P 1506 FRESH FEED PUMPS	7.1	7.1	7.1	
Motor & Pump P 1509 Chloride Injection P	7.8	7.8	7.8	
Motor & Pump P 1510 Chloride Injection P	6.3	6.3	6.3	
Motor & Pump P 1601 A	9.5	9.5	9.5	
Motor & Pump P 1601 B	9.5	9.5	9.5	
Motor & Pump P 1602 A	9.5	9.5	9.5	
Motor & Pump P 1602 B	9.7	9.7	9.7	
Motor & Pump P 211/212	7.7	7.7	7.7	
Motor & Pump P 215/214	10.5	10.5	10.5	
Motor & Pump P 216	12.2	12.2	12.2	
Motor & Pump P 217/218	9.7	9.7	9.7	
Motor & Pump P 300	10.1	10.1	10.1	
Motor & Pump P 301	15.1	15.1	15.1	
Motor & Pump P 302	10.1	10.1	10.1	
Motor & Pump P 303	9.5	9.5	9.5	
Motor & Pump P 305	9.7	9.7	9.7	
Motor & Pump P 306	26.7	26.7	26.7	
Motor & Pump P 307	13.6	13.6	13.6	
Motor & Pump P 309	8.9	8.9	8.9	
Motor & Pump P 312	16.2	16.2	16.2	
Motor & Pump P 313	16.8	16.8	16.8	
Motor & Pump P 315	17.7	17.7	17.7	
Motor & Pump P 316	18.0	18.0	18.0	
Motor & Pump P 317	17.2	17.2	17.2	
Motor & Pump P 318	16.7	16.7	16.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 319	11.8	11.8	11.8	
Motor & Pump P 327	22.5	22.5	22.5	
Motor & Pump P 328	21.1	21.1	21.1	
Motor & Pump P 329	22.6	22.6	22.6	
Motor & Pump P 451	10.3	10.3	10.3	
Motor & Pump P 453	6.5	6.5	6.5	
Motor & Pump P 454	10.3	10.3	10.3	
Motor & Pump P 457	6.3	6.3	6.3	
Motor & Pump P 458	10.3	10.3	10.3	
Motor & Pump P 459	10.3	10.3	10.3	
Motor & Pump P 56A/B	7.0	7.0	7.0	
Nitrogen Skid w Compressor 18-PK 1806	21.0	21.0	21.0	
P-060 A/B	19.8	19.8	19.8	
P-1101 A	20.0	20.0	20.0	
P-1103	20.0	20.0	20.0	
P-1105 A/B/C	20.6	20.6	20.6	
P-1800	23.8	23.8	23.8	
P-1801	31.1	31.1	31.1	
P-1802	32.4	32.4	32.4	
P-1803	21.7	21.7	21.7	
P-1804	21.4	21.4	21.4	
P-1805	20.7	20.7	20.7	
P-1806	22.2	22.2	22.2	
P-1809 A	23.0	23.0	23.0	
P-1810 A/B/C	20.7	20.7	20.7	
P-1811 A/B	22.0	22.0	22.0	
P-1811 A/B	21.1	21.1	21.1	
P-1847 A/B	19.4	19.4	19.4	
P-1849 A/B	19.6	19.6	19.6	
P-1853	21.5	21.5	21.5	
P-2 A/B	19.4	19.4	19.4	
P-251 A/B	20.9	20.9	20.9	
P-252 A/B	20.6	20.6	20.6	
P-253	20.5	20.5	20.5	
P-254 A/B	21.3	21.3	21.3	
P-255 A/B	21.3	21.3	21.3	
P-255 A/B	20.8	20.8	20.8	
P-256 A/B	20.8	20.8	20.8	
P-259 A/B	20.9	20.9	20.9	
P-260	20.7	20.7	20.7	
P-261 A/B	19.7	19.7	19.7	
P-262 A/B	20.6	20.6	20.6	
P-263 A/B	20.9	20.9	20.9	
P-270 A/B	17.8	17.8	17.8	
P-271 A/B	21.0	21.0	21.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-272 A/B	20.9	20.9	20.9	
P-273 A/B	19.1	19.1	19.1	
P-275 A/B/C	20.7	20.7	20.7	
P-305	21.2	21.2	21.2	
P-306	19.9	19.9	19.9	
P-309	18.2	18.2	18.2	
P-328	20.2	20.2	20.2	
P-329	20.1	20.1	20.1	
P-353	18.9	18.9	18.9	
P-358 A/B	20.9	20.9	20.9	
P-359 A/B	20.8	20.8	20.8	
P-360 A/B	19.3	19.3	19.3	
P-361A	19.9	19.9	19.9	
P-371 A/B	17.2	17.2	17.2	
P-373 A/B	17.2	17.2	17.2	
P-374 A/B	17.2	17.2	17.2	
P-375 A/B	17.1	17.1	17.1	
P-376	17.2	17.2	17.2	
P-376 A/B	17.1	17.1	17.1	
P-377	17.1	17.1	17.1	
P-50 A/B	17.7	17.7	17.7	
P-51 A/B	19.0	19.0	19.0	
P-63	19.0	19.0	19.0	
P-70 A/B	17.9	17.9	17.9	
P-73 A/B	19.3	19.3	19.3	
Piping Furnace Tanks	-2.6	-2.6	-2.6	
Piping Hydrogen Tanks Compressor	8.4	8.4	8.4	
Piping Hydrogen Tanks Compressor w NC	25.9	25.9	25.9	
Piping Hydrogen Tanks Compressorw NC	20.4	20.4	20.4	
Pre-Treat Train-Pre-Treat Outside Area E	43.0	43.0	43.0	
Pre-Treat Train-Pre-Treat Outside Area N	32.7	32.7	32.7	
Pre-Treat Train-Pre-Treat Outside Area N2	23.7	23.7	23.7	
Pre-Treat Train-Pre-Treat Outside Area S	37.4	37.4	37.4	
Pre-Treat Train-Pre-Treat Outside Area S2	23.2	23.2	23.2	
Pre-Treat Train-Pre-Treat Outside Area W1	23.9	23.9	23.9	
Pre-Treat Train-Pre-Treat Outside Area W2	26.5	26.5	26.5	
Pre-Treat Train-Pre-Treat Outside Area W3	26.9	26.9	26.9	
Pre-Treat Train-Roof 01	44.0	44.0	44.0	
PSA Pipe 3" Lagging	-8.5	-8.5	-8.5	
PSA Skid Additional Piping w NC	27.9	27.9	27.9	
Reformer-Burner Reformer East	12.9	12.9	12.9	
Reformer-Burner Reformer North	8.4	8.4	8.4	
Reformer-Burner Reformer South	14.3	14.3	14.3	
Reformer-Burner Reformer West	18.7	18.7	18.7	
Revised Renewable Fuels Delivery for Pre	20.8	21.8	21.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Revised Renewable Fuels Delivery for Pre	24.9	25.8	25.8	
RFG A from battery to process	9.3	9.3	9.3	
RFG A from battery to process w NC	20.7	20.7	20.7	
Stack Noise	31.0	31.0	31.0	
Steam Turbine-Facade 01	15.0	15.0	15.0	
Steam Turbine-Facade 02	10.8	10.8	10.8	
Steam Turbine-Facade 03	13.1	13.1	13.1	
Steam Turbine-Facade 04	10.1	10.1	10.1	
Steam Turbine-Roof 01	15.1	15.1	15.1	
Tank Farm Pump 1	19.2	19.2	19.2	
Tank Farm Pump 2	19.7	19.7	19.7	
Tank Farm Pump 3	21.4	21.4	21.4	
UP Train Locomotive Delivery and Pickup 2022 2x	19.4		28.1	
XF-1502 Splitter Area 1	13.1	13.1	13.1	
XF-1502 Splitter Area 2	18.6	18.6	18.6	
XF-1504 Splitter Area 1	13.1	13.1	13.1	
XF-1504 Splitter Area 2	18.7	18.7	18.7	
XF - 1601	16.3	16.3	16.3	
XF - 1602	16.4	16.4	16.4	
XF 251, 250, 271, 270	26.5	26.5	26.5	
XF 260, 261A, 261 B	24.9	24.9	24.9	
XF 304, XF 321	24.3	24.3	24.3	
XF 313, XF 314	26.3	26.3	26.3	
XF 335-1, XF 335-2	26.9	26.9	26.9	
XF 353A/B	21.1	21.1	21.1	
XF 353A/B	20.2	20.2	20.2	
XF 354A/B	20.6	20.6	20.6	
XF 503	27.5	27.5	27.5	
XF Module 1510	22.2	22.2	22.2	
XF Module 1519	22.9	22.9	22.9	
Receiver E-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 64.9 dB(A)		Ld 7-19 dB(A)	Leq,N 64.9 dB(A) Le 19-2
ID Fan Motor	20.9	20.9	20.9	
18-1855 A/B	22.6	22.6	22.6	
18-1856 A/B	21.3	21.3	21.3	
18-1857 A/B	22.9	22.9	22.9	
18-1858 A/B	22.5	22.5	22.5	
18-PK 1802 Air Compressor Package	28.0	28.0	28.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	33.8		36.5	
Air Compressor C 1	29.7	29.7	29.7	
Air Compressor Pump	15.4	15.4	15.4	
Blower F 401	33.1	33.1	33.1	
Boiler Crude Unit-Heater Opening	30.1	30.1	30.1	
Boiler Feed Water Pump A	18.4	18.4	18.4	
Boiler Feed Water Pump B	18.5	18.5	18.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
C-270 A	30.3	30.3	30.3	
C-270 B	30.6	30.6	30.6	
C-270 C	31.5	31.5	31.5	
C-301 Compressor	36.4	36.4	36.4	
C-301 Motor	34.6	34.6	34.6	
C-351 Compressor	36.3	36.3	36.3	
C-351 Motor	30.6	30.6	30.6	
C370 A Motor	23.4	23.4	23.4	
C370 B Motor	26.1	26.1	26.1	
C370A	21.6	21.6	21.6	
C370B	25.1	25.1	25.1	
Cars Pumping 6 times in during delivery	30.9		39.6	
Compressor House C301, C302, C 124-Comp House East 1	22.8	22.8	22.8	
Compressor House C301, C302, C 124-Comp House East 2	19.6	19.6	19.6	
Compressor House C301, C302, C 124-Comp House North	15.7	15.7	15.7	
Compressor House C301, C302, C 124-Comp House South 1	33.4	33.4	33.4	
Compressor House C301, C302, C 124-Comp House South 2	26.3	26.3	26.3	
Compressor House C301, C302, C 124-Comp House West	5.9	5.9	5.9	
Construction / Renewable Fuels Truck Tr	64.6	64.6	64.6	
Cooling Tower CT 510-CT 510 East Side	14.8	14.8	14.8	
Cooling Tower CT 510-CT 510 West Side	5.7	5.7	5.7	
Cooling Tower CT 511-CT 511 East Side	23.0	23.0	23.0	
Cooling Tower CT 511-CT 511 West Side	10.3	10.3	10.3	
Cooling Tower M 512	15.1	15.1	15.1	
Cooling Tower M 513	15.1	15.1	15.1	
Cooling Tower M 514	15.1	15.1	15.1	
Crude Operatoin Truck Truck Traffic	46.8	47.8	47.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	18.5	18.5	18.5	
FD Fan Assembly-FD Fan - East	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - North	18.8	18.8	18.8	
FD Fan Assembly-FD Fan - Roof	20.6	20.6	20.6	
FD Fan Assembly-FD Fan - South	15.7	15.7	15.7	
FD Fan Assembly-FD Fan - West	20.3	20.3	20.3	
FD Motor	22.6	22.6	22.6	
Feed Compressor-A Compressor	22.6	22.6	22.6	
Feed Compressor-A Motor	23.9	23.9	23.9	
Feed Compressor-B Compressor	23.9	23.9	23.9	
Feed Compressor -B Motor	19.7	19.7	19.7	
H2S Compressor 18-C-271	24.1	24.1	24.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Heater # 5-Heater	19.2	19.2	19.2	
Heater # 5-Heater	17.5	17.5	17.5	
Heater # 5-Heater	19.3	19.3	19.3	
Hydro Heater H-402	15.7	15.7	15.7	
ID Fan-ID Fan - East (128302)	19.0	19.0	19.0	
ID Fan-ID Fan - East 1 (128306)	7.0	7.0	7.0	
ID Fan-ID Fan - North	12.5	12.5	12.5	
ID Fan-ID Fan - North 2	11.3	11.3	11.3	
ID Fan-ID Fan - South	24.1	24.1	24.1	
ID Fan-ID Fan - South 2	16.8	16.8	16.8	
ID Fan-ID Fan Roof 01 (128293)	22.8	22.8	22.8	
Motor & Pump P - 1502 Splitter Reflux Pu	9.2	9.2	9.2	
Motor & Pump P - 1503 Splitter Bottoms P	12.6	12.6	12.6	
Motor & Pump P - 1504 Splitter Bottoms P	12.1	12.1	12.1	
Motor & Pump P - 1507 Reactor Pump	9.4	9.4	9.4	
Motor & Pump P - 1508 Reactor Pump	14.5	14.5	14.5	
Motor & Pump P - 1511 Stabilizer Reflux	10.9	10.9	10.9	
Motor & Pump P - 1512 Stabilizer Reflux	10.9	10.9	10.9	
Motor & Pump P - 1513 Caustic Circulatin	10.4	10.4	10.4	
Motor & Pump P - 1514 Caustic Circulatin	10.8	10.8	10.8	
Motor & Pump P 120/121	9.0	9.0	9.0	
Motor & Pump P 1505 FRESH FEED PUMPS	14.4	14.4	14.4	
Motor & Pump P 1506 FRESH FEED PUMPS	14.0	14.0	14.0	
Motor & Pump P 1509 Chloride Injection P	8.1	8.1	8.1	
Motor & Pump P 1510 Chloride Injection P	6.7	6.7	6.7	
Motor & Pump P 1601 A	12.3	12.3	12.3	
Motor & Pump P 1601 B	12.9	12.9	12.9	
Motor & Pump P 1602 A	12.9	12.9	12.9	
Motor & Pump P 1602 B	13.0	13.0	13.0	
Motor & Pump P 211/212	8.1	8.1	8.1	
Motor & Pump P 215/214	15.4	15.4	15.4	
Motor & Pump P 216	12.4	12.4	12.4	
Motor & Pump P 217/218	14.7	14.7	14.7	
Motor & Pump P 300	13.5	13.5	13.5	
Motor & Pump P 301	18.5	18.5	18.5	
Motor & Pump P 302	10.2	10.2	10.2	
Motor & Pump P 303	10.3	10.3	10.3	
Motor & Pump P 305	10.7	10.7	10.7	
Motor & Pump P 306	24.8	24.8	24.8	
Motor & Pump P 307	14.3	14.3	14.3	
Motor & Pump P 309	10.7	10.7	10.7	
Motor & Pump P 312	18.2	18.2	18.2	
Motor & Pump P 313	17.7	17.7	17.7	
Motor & Pump P 315	19.5	19.5	19.5	
Motor & Pump P 316	18.6	18.6	18.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 317	18.6	18.6	18.6	
Motor & Pump P 318	16.8	16.8	16.8	
Motor & Pump P 319	16.8	16.8	16.8	
Motor & Pump P 327	23.1	23.1	23.1	
Motor & Pump P 328	22.8	22.8	22.8	
Motor & Pump P 329	22.9	22.9	22.9	
Motor & Pump P 451	15.3	15.3	15.3	
Motor & Pump P 453	7.4	7.4	7.4	
Motor & Pump P 454	15.3	15.3	15.3	
Motor & Pump P 457	7.5	7.5	7.5	
Motor & Pump P 458	15.3	15.3	15.3	
Motor & Pump P 459	15.2	15.2	15.2	
Motor & Pump P 56A/B	9.3	9.3	9.3	
Nitrogen Skid w Compressor 18-PK 1806	19.4	19.4	19.4	
P-060 A/B	18.3	18.3	18.3	
P-1101 A	21.5	21.5	21.5	
P-1103	21.5	21.5	21.5	
P-1105 A/B/C	21.5	21.5	21.5	
P-1800	41.6	41.6	41.6	
P-1801	43.8	43.8	43.8	
P-1802	43.9	43.9	43.9	
P-1803	21.9	21.9	21.9	
P-1804	21.5	21.5	21.5	
P-1805	20.9	20.9	20.9	
P-1806	21.1	21.1	21.1	
P-1809 A	24.7	24.7	24.7	
P-1810 A/B/C	22.0	22.0	22.0	
P-1811 A/B	20.1	20.1	20.1	
P-1811 A/B	21.6	21.6	21.6	
P-1847 A/B	25.9	25.9	25.9	
P-1849 A/B	25.9	25.9	25.9	
P-1853	20.4	20.4	20.4	
P-2 A/B	27.4	27.4	27.4	
P-251 A/B	30.0	30.0	30.0	
P-252 A/B	19.8	19.8	19.8	
P-253	19.8	19.8	19.8	
P-254 A/B	30.2	30.2	30.2	
P-255 A/B	30.1	30.1	30.1	
P-255 A/B	29.8	29.8	29.8	
P-256 A/B	30.0	30.0	30.0	
P-259 A/B	29.9	29.9	29.9	
P-260	20.9	20.9	20.9	
P-261 A/B	20.6	20.6	20.6	
P-262 A/B	21.1	21.1	21.1	
P-263 A/B	21.2	21.2	21.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-270 A/B	21.4	21.4	21.4	
P-271 A/B	30.3	30.3	30.3	
P-272 A/B	30.2	30.2	30.2	
P-273 A/B	22.5	22.5	22.5	
P-275 A/B/C	19.7	19.7	19.7	
P-305	22.9	22.9	22.9	
P-306	24.0	24.0	24.0	
P-309	22.9	22.9	22.9	
P-328	23.7	23.7	23.7	
P-329	24.0	24.0	24.0	
P-353	21.2	21.2	21.2	
P-358 A/B	21.5	21.5	21.5	
P-359 A/B	18.4	18.4	18.4	
P-360 A/B	18.5	18.5	18.5	
P-361A	24.2	24.2	24.2	
P-371 A/B	17.4	17.4	17.4	
P-373 A/B	16.6	16.6	16.6	
P-374 A/B	16.7	16.7	16.7	
P-375 A/B	16.6	16.6	16.6	
P-376	16.8	16.8	16.8	
P-376 A/B	16.5	16.5	16.5	
P-377	16.8	16.8	16.8	
P-50 A/B	20.0	20.0	20.0	
P-51 A/B	19.9	19.9	19.9	
P-63	21.1	21.1	21.1	
P-70 A/B	18.2	18.2	18.2	
P-73 A/B	32.4	32.4	32.4	
Piping Furnace Tanks	-0.3	-0.3	-0.3	
Piping Hydrogen Tanks Compressor	10.3	10.3	10.3	
Piping Hydrogen Tanks Compressor w NC	26.2	26.2	26.2	
Piping Hydrogen Tanks Compressorw NC	21.1	21.1	21.1	
Pre-Treat Train-Pre-Treat Outside Area E	40.3	40.3	40.3	
Pre-Treat Train-Pre-Treat Outside Area N	31.6	31.6	31.6	
Pre-Treat Train-Pre-Treat Outside Area N2	23.8	23.8	23.8	
Pre-Treat Train-Pre-Treat Outside Area S	37.0	37.0	37.0	
Pre-Treat Train-Pre-Treat Outside Area S2	24.5	24.5	24.5	
Pre-Treat Train-Pre-Treat Outside Area W1	23.5	23.5	23.5	
Pre-Treat Train-Pre-Treat Outside Area W2	26.6	26.6	26.6	
Pre-Treat Train-Pre-Treat Outside Area W3	26.4	26.4	26.4	
Pre-Treat Train-Roof 01	40.8	40.8	40.8	
PSA Pipe 3" Lagging	-3.1	-3.1	-3.1	
PSA Skid Additional Piping w NC	27.8	27.8	27.8	
Reformer-Burner Reformer East	12.7	12.7	12.7	
Reformer-Burner Reformer North	9.5	9.5	9.5	
Reformer-Burner Reformer South	17.9	17.9	17.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Reformer-Burner Reformer West	21.9	21.9	21.9	
Revised Renewable Fuels Delivery for Pre	16.2	17.2	17.2	
Revised Renewable Fuels Delivery for Pre	26.2	27.2	27.2	
RFG A from battery to process	11.2	11.2	11.2	
RFG A from battery to process w NC	21.6	21.6	21.6	
Stack Noise	34.6	34.6	34.6	
Steam Turbine-Facade 01	16.0	16.0	16.0	
Steam Turbine-Facade 02	13.4	13.4	13.4	
Steam Turbine-Facade 03	15.7	15.7	15.7	
Steam Turbine-Facade 04	9.6	9.6	9.6	
Steam Turbine-Roof 01	16.7	16.7	16.7	
Tank Farm Pump 1	21.9	21.9	21.9	
Tank Farm Pump 2	18.5	18.5	18.5	
Tank Farm Pump 3	18.6	18.6	18.6	
UP Train Locomotive Delivery and Pickup 2022 2x	24.2		33.0	
XF-1502 Splitter Area 1	14.9	14.9	14.9	
XF-1502 Splitter Area 2	21.1	21.1	21.1	
XF-1504 Splitter Area 1	13.7	13.7	13.7	
XF-1504 Splitter Area 2	21.1	21.1	21.1	
XF - 1601	19.1	19.1	19.1	
XF - 1602	19.1	19.1	19.1	
XF 251, 250, 271, 270	34.8	34.8	34.8	
XF 260, 261A, 261 B	34.0	34.0	34.0	
XF 304, XF 321	28.4	28.4	28.4	
XF 313, XF 314	28.9	28.9	28.9	
XF 335-1, XF 335-2	28.5	28.5	28.5	
XF 353A/B	22.4	22.4	22.4	
XF 353A/B	31.4	31.4	31.4	
XF 354A/B	21.8	21.8	21.8	
XF 503	29.2	29.2	29.2	
XF Module 1510	17.4	17.4	17.4	
XF Module 1519	25.4	25.4	25.4	
Receiver E-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 66.6 dB(A)	Ld 7-19 dB(A)	Leq,N 66.6 dB(A)	Le 19-2
ID Fan Motor	21.6	21.6	21.6	
18-1855 A/B	23.9	23.9	23.9	
18-1856 A/B	20.9	20.9	20.9	
18-1857 A/B	24.1	24.1	24.1	
18-1858 A/B	24.0	24.0	24.0	
18-PK 1802 Air Compressor Package	27.6	27.6	27.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	34.0		36.7	
Air Compressor C 1	30.8	30.8	30.8	
Air Compressor Pump	16.1	16.1	16.1	
Blower F 401	33.6	33.6	33.6	
Boiler Crude Unit-Heater Opening	25.1	25.1	25.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Boiler Feed Water Pump A	20.4	20.4	20.4	
Boiler Feed Water Pump B	20.4	20.4	20.4	
C-270 A	30.6	30.6	30.6	
C-270 B	30.8	30.8	30.8	
C-270 C	31.5	31.5	31.5	
C-301 Compressor	42.0	42.0	42.0	
C-301 Motor	40.6	40.6	40.6	
C-351 Compressor	36.6	36.6	36.6	
C-351 Motor	30.8	30.8	30.8	
C370 A Motor	24.5	24.5	24.5	
C370 B Motor	27.2	27.2	27.2	
C370A	23.9	23.9	23.9	
C370B	26.8	26.8	26.8	
Cars Pumping 6 times in during delivery	30.9		39.7	
Compressor House C301, C302, C 124-Comp House East 1	22.5	22.5	22.5	
Compressor House C301, C302, C 124-Comp House East 2	21.5	21.5	21.5	
Compressor House C301, C302, C 124-Comp House North	18.4	18.4	18.4	
Compressor House C301, C302, C 124-Comp House South 1	32.4	32.4	32.4	
Compressor House C301, C302, C 124-Comp House South 2	27.2	27.2	27.2	
Compressor House C301, C302, C 124-Comp House West	7.1	7.1	7.1	
Construction / Renewable Fuels Truck Tr	66.3	66.3	66.3	
Cooling Tower CT 510-CT 510 East Side	16.7	16.7	16.7	
Cooling Tower CT 510-CT 510 West Side	7.3	7.3	7.3	
Cooling Tower CT 511-CT 511 East Side	24.8	24.8	24.8	
Cooling Tower CT 511-CT 511 West Side	11.5	11.5	11.5	
Cooling Tower M 512	16.7	16.7	16.7	
Cooling Tower M 513	16.3	16.3	16.3	
Cooling Tower M 514	16.7	16.7	16.7	
Crude Operatoin Truck Truck Traffic	44.0	45.0	45.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	21.2	21.2	21.2	
FD Fan Assembly-FD Fan - East	21.4	21.4	21.4	
FD Fan Assembly-FD Fan - North	18.4	18.4	18.4	
FD Fan Assembly-FD Fan - Roof	18.7	18.7	18.7	
FD Fan Assembly-FD Fan - South	15.1	15.1	15.1	
FD Fan Assembly-FD Fan - West	19.0	19.0	19.0	
FD Motor	22.1	22.1	22.1	
Feed Compressor-A Compressor	23.6	23.6	23.6	
Feed Compressor-A Motor	22.7	22.7	22.7	
Feed Compressor-B Compressor	25.6	25.6	25.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Feed Compressor -B Motor	20.3	20.3	20.3	
H2S Compressor 18-C-271	26.0	26.0	26.0	
Heater # 5-Heater	18.5	18.5	18.5	
Heater # 5-Heater	16.7	16.7	16.7	
Heater # 5-Heater	18.4	18.4	18.4	
Hydro Heater H-402	18.4	18.4	18.4	
ID Fan-ID Fan - East (128302)	17.8	17.8	17.8	
ID Fan-ID Fan - East 1 (128306)	7.1	7.1	7.1	
ID Fan-ID Fan - North	12.8	12.8	12.8	
ID Fan-ID Fan - North 2	11.3	11.3	11.3	
ID Fan-ID Fan - South	22.9	22.9	22.9	
ID Fan-ID Fan - South 2	16.1	16.1	16.1	
ID Fan-ID Fan Roof 01 (128293)	21.2	21.2	21.2	
Motor & Pump P - 1502 Splitter Reflux Pu	12.7	12.7	12.7	
Motor & Pump P - 1503 Splitter Bottoms P	16.8	16.8	16.8	
Motor & Pump P - 1504 Splitter Bottoms P	13.1	13.1	13.1	
Motor & Pump P - 1507 Reactor Pump	12.9	12.9	12.9	
Motor & Pump P - 1508 Reactor Pump	16.7	16.7	16.7	
Motor & Pump P - 1511 Stabilizer Reflux	12.7	12.7	12.7	
Motor & Pump P - 1512 Stabilizer Reflux	12.6	12.6	12.6	
Motor & Pump P - 1513 Caustic Circulatin	12.0	12.0	12.0	
Motor & Pump P - 1514 Caustic Circulatin	12.4	12.4	12.4	
Motor & Pump P 120/121	13.6	13.6	13.6	
Motor & Pump P 1505 FRESH FEED PUMPS	13.6	13.6	13.6	
Motor & Pump P 1506 FRESH FEED PUMPS	15.8	15.8	15.8	
Motor & Pump P 1509 Chloride Injection P	11.8	11.8	11.8	
Motor & Pump P 1510 Chloride Injection P	8.6	8.6	8.6	
Motor & Pump P 1601 A	14.6	14.6	14.6	
Motor & Pump P 1601 B	13.8	13.8	13.8	
Motor & Pump P 1602 A	14.5	14.5	14.5	
Motor & Pump P 1602 B	14.6	14.6	14.6	
Motor & Pump P 211/212	9.3	9.3	9.3	
Motor & Pump P 215/214	11.4	11.4	11.4	
Motor & Pump P 216	14.4	14.4	14.4	
Motor & Pump P 217/218	9.4	9.4	9.4	
Motor & Pump P 300	15.3	15.3	15.3	
Motor & Pump P 301	18.6	18.6	18.6	
Motor & Pump P 302	14.6	14.6	14.6	
Motor & Pump P 303	12.4	12.4	12.4	
Motor & Pump P 305	14.6	14.6	14.6	
Motor & Pump P 306	27.2	27.2	27.2	
Motor & Pump P 307	16.7	16.7	16.7	
Motor & Pump P 309	13.0	13.0	13.0	
Motor & Pump P 312	19.7	19.7	19.7	
Motor & Pump P 313	20.0	20.0	20.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 315	21.2	21.2	21.2	
Motor & Pump P 316	20.3	20.3	20.3	
Motor & Pump P 317	20.2	20.2	20.2	
Motor & Pump P 318	18.4	18.4	18.4	
Motor & Pump P 319	18.6	18.6	18.6	
Motor & Pump P 327	23.6	23.6	23.6	
Motor & Pump P 328	23.0	23.0	23.0	
Motor & Pump P 329	22.8	22.8	22.8	
Motor & Pump P 451	13.8	13.8	13.8	
Motor & Pump P 453	8.9	8.9	8.9	
Motor & Pump P 454	13.7	13.7	13.7	
Motor & Pump P 457	9.0	9.0	9.0	
Motor & Pump P 458	13.8	13.8	13.8	
Motor & Pump P 459	13.9	13.9	13.9	
Motor & Pump P 56A/B	10.7	10.7	10.7	
Nitrogen Skid w Compressor 18-PK 1806	20.6	20.6	20.6	
P-060 A/B	19.5	19.5	19.5	
P-1101 A	32.6	32.6	32.6	
P-1103	23.1	23.1	23.1	
P-1105 A/B/C	22.8	22.8	22.8	
P-1800	42.3	42.3	42.3	
P-1801	47.4	47.4	47.4	
P-1802	47.5	47.5	47.5	
P-1803	21.8	21.8	21.8	
P-1804	22.0	22.0	22.0	
P-1805	22.4	22.4	22.4	
P-1806	22.2	22.2	22.2	
P-1809 A	24.0	24.0	24.0	
P-1810 A/B/C	23.6	23.6	23.6	
P-1811 A/B	22.5	22.5	22.5	
P-1811 A/B	23.1	23.1	23.1	
P-1847 A/B	20.7	20.7	20.7	
P-1849 A/B	21.1	21.1	21.1	
P-1853	19.6	19.6	19.6	
P-2 A/B	32.5	32.5	32.5	
P-251 A/B	23.6	23.6	23.6	
P-252 A/B	29.7	29.7	29.7	
P-253	29.7	29.7	29.7	
P-254 A/B	30.8	30.8	30.8	
P-255 A/B	30.6	30.6	30.6	
P-255 A/B	23.3	23.3	23.3	
P-256 A/B	23.8	23.8	23.8	
P-259 A/B	23.4	23.4	23.4	
P-260	30.3	30.3	30.3	
P-261 A/B	27.0	27.0	27.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-262 A/B	30.1	30.1	30.1	
P-263 A/B	30.5	30.5	30.5	
P-270 A/B	22.2	22.2	22.2	
P-271 A/B	30.5	30.5	30.5	
P-272 A/B	30.5	30.5	30.5	
P-273 A/B	23.1	23.1	23.1	
P-275 A/B/C	20.3	20.3	20.3	
P-305	22.5	22.5	22.5	
P-306	23.7	23.7	23.7	
P-309	22.5	22.5	22.5	
P-328	23.7	23.7	23.7	
P-329	23.8	23.8	23.8	
P-353	20.1	20.1	20.1	
P-358 A/B	22.0	22.0	22.0	
P-359 A/B	19.6	19.6	19.6	
P-360 A/B	19.4	19.4	19.4	
P-361A	25.7	25.7	25.7	
P-371 A/B	18.2	18.2	18.2	
P-373 A/B	18.1	18.1	18.1	
P-374 A/B	18.2	18.2	18.2	
P-375 A/B	18.1	18.1	18.1	
P-376	18.2	18.2	18.2	
P-376 A/B	18.0	18.0	18.0	
P-377	18.0	18.0	18.0	
P-50 A/B	20.9	20.9	20.9	
P-51 A/B	20.9	20.9	20.9	
P-63	20.6	20.6	20.6	
P-70 A/B	19.4	19.4	19.4	
P-73 A/B	33.1	33.1	33.1	
Piping Furnace Tanks	2.0	2.0	2.0	
Piping Hydrogen Tanks Compressor	12.3	12.3	12.3	
Piping Hydrogen Tanks Compressor w NC	26.9	26.9	26.9	
Piping Hydrogen Tanks Compressorw NC	21.9	21.9	21.9	
Pre-Treat Train-Pre-Treat Outside Area E	46.6	46.6	46.6	
Pre-Treat Train-Pre-Treat Outside Area N	32.9	32.9	32.9	
Pre-Treat Train-Pre-Treat Outside Area N2	25.0	25.0	25.0	
Pre-Treat Train-Pre-Treat Outside Area S	38.6	38.6	38.6	
Pre-Treat Train-Pre-Treat Outside Area S2	25.6	25.6	25.6	
Pre-Treat Train-Pre-Treat Outside Area W1	24.8	24.8	24.8	
Pre-Treat Train-Pre-Treat Outside Area W2	27.5	27.5	27.5	
Pre-Treat Train-Pre-Treat Outside Area W3	27.8	27.8	27.8	
Pre-Treat Train-Roof 01	40.7	40.7	40.7	
PSA Pipe 3" Lagging	-1.5	-1.5	-1.5	
PSA Skid Additional Piping w NC	28.7	28.7	28.7	
Reformer-Burner Reformer East	13.6	13.6	13.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Reformer-Burner Reformer North	10.2	10.2	10.2	
Reformer-Burner Reformer South	17.1	17.1	17.1	
Reformer-Burner Reformer West	21.7	21.7	21.7	
Revised Renewable Fuels Delivery for Pre	18.8	19.8	19.8	
Revised Renewable Fuels Delivery for Pre	30.4	31.4	31.4	
RFG A from battery to process	13.8	13.8	13.8	
RFG A from battery to process w NC	22.3	22.3	22.3	
Stack Noise	31.4	31.4	31.4	
Steam Turbine-Facade 01	18.2	18.2	18.2	
Steam Turbine-Facade 02	16.0	16.0	16.0	
Steam Turbine-Facade 03	17.9	17.9	17.9	
Steam Turbine-Facade 04	10.8	10.8	10.8	
Steam Turbine-Roof 01	18.7	18.7	18.7	
Tank Farm Pump 1	20.9	20.9	20.9	
Tank Farm Pump 2	22.7	22.7	22.7	
Tank Farm Pump 3	22.5	22.5	22.5	
UP Train Locomotive Delivery and Pickup 2022 2x	24.7		33.4	
XF-1502 Splitter Area 1	23.0	23.0	23.0	
XF-1502 Splitter Area 2	23.0	23.0	23.0	
XF-1504 Splitter Area 1	18.1	18.1	18.1	
XF-1504 Splitter Area 2	23.0	23.0	23.0	
XF - 1601	20.7	20.7	20.7	
XF - 1602	20.7	20.7	20.7	
XF 251, 250, 271, 270	36.6	36.6	36.6	
XF 260, 261A, 261 B	34.7	34.7	34.7	
XF 304, XF 321	29.3	29.3	29.3	
XF 313, XF 314	27.6	27.6	27.6	
XF 335-1, XF 335-2	29.0	29.0	29.0	
XF 353A/B	22.8	22.8	22.8	
XF 353A/B	31.2	31.2	31.2	
XF 354A/B	21.3	21.3	21.3	
XF 503	29.8	29.8	29.8	
XF Module 1510	21.3	21.3	21.3	
XF Module 1519	27.3	27.3	27.3	
Receiver S-1 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 61.0 dB(A)	Ld 7-19 dB(A)	Leq,N 61.0 dB(A)	Le 19-2
ID Fan Motor	19.8	19.8	19.8	
18-1855 A/B	21.3	21.3	21.3	
18-1856 A/B	21.2	21.2	21.2	
18-1857 A/B	21.3	21.3	21.3	
18-1858 A/B	21.5	21.5	21.5	
18-PK 1802 Air Compressor Package	28.9	28.9	28.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	28.3		31.1	
Air Compressor C 1	32.3	32.3	32.3	
Air Compressor Pump	13.9	13.9	13.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Blower F 401	32.2	32.2	32.2	
Boiler Crude Unit-Heater Opening	18.9	18.9	18.9	
Boiler Feed Water Pump A	19.2	19.2	19.2	
Boiler Feed Water Pump B	19.2	19.2	19.2	
C-270 A	26.2	26.2	26.2	
C-270 B	25.2	25.2	25.2	
C-270 C	26.9	26.9	26.9	
C-301 Compressor	32.3	32.3	32.3	
C-301 Motor	29.1	29.1	29.1	
C-351 Compressor	28.4	28.4	28.4	
C-351 Motor	26.5	26.5	26.5	
C370 A Motor	21.7	21.7	21.7	
C370 B Motor	26.5	26.5	26.5	
C370A	25.3	25.3	25.3	
C370B	24.9	24.9	24.9	
Cars Pumping 6 times in during delivery	26.2		35.0	
Compressor House C301, C302, C 124-Comp House East 1	23.4	23.4	23.4	
Compressor House C301, C302, C 124-Comp House East 2	23.9	23.9	23.9	
Compressor House C301, C302, C 124-Comp House North	15.3	15.3	15.3	
Compressor House C301, C302, C 124-Comp House South 1	29.8	29.8	29.8	
Compressor House C301, C302, C 124-Comp House South 2	30.7	30.7	30.7	
Compressor House C301, C302, C 124-Comp House West	5.2	5.2	5.2	
Construction / Renewable Fuels Truck Tr	60.3	60.3	60.3	
Cooling Tower CT 510-CT 510 East Side	17.6	17.6	17.6	
Cooling Tower CT 510-CT 510 West Side	5.0	5.0	5.0	
Cooling Tower CT 511-CT 511 East Side	26.5	26.5	26.5	
Cooling Tower CT 511-CT 511 West Side	15.6	15.6	15.6	
Cooling Tower M 512	17.8	17.8	17.8	
Cooling Tower M 513	20.2	20.2	20.2	
Cooling Tower M 514	17.8	17.8	17.8	
Crude Operatoin Truck Truck Traffic	45.3	46.3	46.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	21.6	21.6	21.6	
FD Fan Assembly-FD Fan - East	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - North	15.5	15.5	15.5	
FD Fan Assembly-FD Fan - Roof	22.8	22.8	22.8	
FD Fan Assembly-FD Fan - South	24.1	24.1	24.1	
FD Fan Assembly-FD Fan - West	25.2	25.2	25.2	
FD Motor	20.8	20.8	20.8	
Feed Compressor-A Compressor	26.2	26.2	26.2	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Feed Compressor-A Motor	22.3	22.3	22.3	
Feed Compressor-B Compressor	24.4	24.4	24.4	
Feed Compressor -B Motor	19.8	19.8	19.8	
H2S Compressor 18-C-271	22.5	22.5	22.5	
Heater # 5-Heater	17.1	17.1	17.1	
Heater # 5-Heater	17.2	17.2	17.2	
Heater # 5-Heater	17.1	17.1	17.1	
Hydro Heater H-402	12.9	12.9	12.9	
ID Fan-ID Fan - East (128302)	20.4	20.4	20.4	
ID Fan-ID Fan - East 1 (128306)	7.9	7.9	7.9	
ID Fan-ID Fan - North	17.2	17.2	17.2	
ID Fan-ID Fan - North 2	12.2	12.2	12.2	
ID Fan-ID Fan - South	26.2	26.2	26.2	
ID Fan-ID Fan - South 2	23.2	23.2	23.2	
ID Fan-ID Fan Roof 01 (128293)	26.9	26.9	26.9	
Motor & Pump P - 1502 Splitter Reflux Pu	7.4	7.4	7.4	
Motor & Pump P - 1503 Splitter Bottoms P	17.5	17.5	17.5	
Motor & Pump P - 1504 Splitter Bottoms P	17.4	17.4	17.4	
Motor & Pump P - 1507 Reactor Pump	12.2	12.2	12.2	
Motor & Pump P - 1508 Reactor Pump	7.7	7.7	7.7	
Motor & Pump P - 1511 Stabilizer Reflux	9.9	9.9	9.9	
Motor & Pump P - 1512 Stabilizer Reflux	7.4	7.4	7.4	
Motor & Pump P - 1513 Caustic Circulatin	17.1	17.1	17.1	
Motor & Pump P - 1514 Caustic Circulatin	15.3	15.3	15.3	
Motor & Pump P 120/121	9.1	9.1	9.1	
Motor & Pump P 1505 FRESH FEED PUMPS	10.0	10.0	10.0	
Motor & Pump P 1506 FRESH FEED PUMPS	11.4	11.4	11.4	
Motor & Pump P 1509 Chloride Injection P	11.0	11.0	11.0	
Motor & Pump P 1510 Chloride Injection P	7.0	7.0	7.0	
Motor & Pump P 1601 A	17.3	17.3	17.3	
Motor & Pump P 1601 B	17.3	17.3	17.3	
Motor & Pump P 1602 A	17.3	17.3	17.3	
Motor & Pump P 1602 B	17.5	17.5	17.5	
Motor & Pump P 211/212	5.7	5.7	5.7	
Motor & Pump P 215/214	8.6	8.6	8.6	
Motor & Pump P 216	12.6	12.6	12.6	
Motor & Pump P 217/218	5.5	5.5	5.5	
Motor & Pump P 300	10.6	10.6	10.6	
Motor & Pump P 301	15.1	15.1	15.1	
Motor & Pump P 302	13.7	13.7	13.7	
Motor & Pump P 303	19.5	19.5	19.5	
Motor & Pump P 305	10.6	10.6	10.6	
Motor & Pump P 306	25.9	25.9	25.9	
Motor & Pump P 307	13.9	13.9	13.9	
Motor & Pump P 309	10.6	10.6	10.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 312	18.8	18.8	18.8	
Motor & Pump P 313	18.8	18.8	18.8	
Motor & Pump P 315	18.4	18.4	18.4	
Motor & Pump P 316	17.4	17.4	17.4	
Motor & Pump P 317	15.8	15.8	15.8	
Motor & Pump P 318	15.9	15.9	15.9	
Motor & Pump P 319	17.5	17.5	17.5	
Motor & Pump P 327	24.6	24.6	24.6	
Motor & Pump P 328	22.1	22.1	22.1	
Motor & Pump P 329	21.7	21.7	21.7	
Motor & Pump P 451	12.3	12.3	12.3	
Motor & Pump P 453	6.7	6.7	6.7	
Motor & Pump P 454	8.6	8.6	8.6	
Motor & Pump P 457	6.7	6.7	6.7	
Motor & Pump P 458	12.2	12.2	12.2	
Motor & Pump P 459	8.6	8.6	8.6	
Motor & Pump P 56A/B	8.3	8.3	8.3	
Nitrogen Skid w Compressor 18-PK 1806	21.8	21.8	21.8	
P-060 A/B	19.2	19.2	19.2	
P-1101 A	20.7	20.7	20.7	
P-1103	20.8	20.8	20.8	
P-1105 A/B/C	20.7	20.7	20.7	
P-1800	22.1	22.1	22.1	
P-1801	45.2	45.2	45.2	
P-1802	44.2	44.2	44.2	
P-1803	20.8	20.8	20.8	
P-1804	21.2	21.2	21.2	
P-1805	20.6	20.6	20.6	
P-1806	21.0	21.0	21.0	
P-1809 A	24.8	24.8	24.8	
P-1810 A/B/C	22.7	22.7	22.7	
P-1811 A/B	20.3	20.3	20.3	
P-1811 A/B	21.0	21.0	21.0	
P-1847 A/B	19.1	19.1	19.1	
P-1849 A/B	18.8	18.8	18.8	
P-1853	19.5	19.5	19.5	
P-2 A/B	25.6	25.6	25.6	
P-251 A/B	18.5	18.5	18.5	
P-252 A/B	18.7	18.7	18.7	
P-253	18.8	18.8	18.8	
P-254 A/B	18.8	18.8	18.8	
P-255 A/B	18.8	18.8	18.8	
P-255 A/B	18.5	18.5	18.5	
P-256 A/B	18.7	18.7	18.7	
P-259 A/B	18.5	18.5	18.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-260	19.6	19.6	19.6	
P-261 A/B	18.1	18.1	18.1	
P-262 A/B	19.6	19.6	19.6	
P-263 A/B	19.9	19.9	19.9	
P-270 A/B	18.0	18.0	18.0	
P-271 A/B	19.0	19.0	19.0	
P-272 A/B	18.9	18.9	18.9	
P-273 A/B	17.9	17.9	17.9	
P-275 A/B/C	17.8	17.8	17.8	
P-305	22.2	22.2	22.2	
P-306	21.1	21.1	21.1	
P-309	22.2	22.2	22.2	
P-328	21.1	21.1	21.1	
P-329	21.1	21.1	21.1	
P-353	21.3	21.3	21.3	
P-358 A/B	18.6	18.6	18.6	
P-359 A/B	18.5	18.5	18.5	
P-360 A/B	18.6	18.6	18.6	
P-361A	19.0	19.0	19.0	
P-371 A/B	21.1	21.1	21.1	
P-373 A/B	15.8	15.8	15.8	
P-374 A/B	16.1	16.1	16.1	
P-375 A/B	20.9	20.9	20.9	
P-376	20.8	20.8	20.8	
P-376 A/B	15.5	15.5	15.5	
P-377	20.9	20.9	20.9	
P-50 A/B	23.4	23.4	23.4	
P-51 A/B	19.5	19.5	19.5	
P-63	19.5	19.5	19.5	
P-70 A/B	20.1	20.1	20.1	
P-73 A/B	25.5	25.5	25.5	
Piping Furnace Tanks	2.9	2.9	2.9	
Piping Hydrogen Tanks Compressor	13.5	13.5	13.5	
Piping Hydrogen Tanks Compressor w NC	26.7	26.7	26.7	
Piping Hydrogen Tanks Compressorw NC	21.6	21.6	21.6	
Pre-Treat Train-Pre-Treat Outside Area E	38.2	38.2	38.2	
Pre-Treat Train-Pre-Treat Outside Area N	32.1	32.1	32.1	
Pre-Treat Train-Pre-Treat Outside Area N2	23.1	23.1	23.1	
Pre-Treat Train-Pre-Treat Outside Area S	36.0	36.0	36.0	
Pre-Treat Train-Pre-Treat Outside Area S2	25.4	25.4	25.4	
Pre-Treat Train-Pre-Treat Outside Area W1	22.5	22.5	22.5	
Pre-Treat Train-Pre-Treat Outside Area W2	26.9	26.9	26.9	
Pre-Treat Train-Pre-Treat Outside Area W3	27.2	27.2	27.2	
Pre-Treat Train-Roof 01	39.2	39.2	39.2	
PSA Pipe 3" Lagging	0.8	0.8	0.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
PSA Skid Additional Piping w NC	28.6	28.6	28.6	
Reformer-Burner Reformer East	15.3	15.3	15.3	
Reformer-Burner Reformer North	9.4	9.4	9.4	
Reformer-Burner Reformer South	20.0	20.0	20.0	
Reformer-Burner Reformer West	23.9	23.9	23.9	
Revised Renewable Fuels Delivery for Pre	26.7	27.7	27.7	
Revised Renewable Fuels Delivery for Pre	28.5	29.4	29.4	
RFG A from battery to process	14.4	14.4	14.4	
RFG A from battery to process w NC	22.4	22.4	22.4	
Stack Noise	37.5	37.5	37.5	
Steam Turbine-Facade 01	18.2	18.2	18.2	
Steam Turbine-Facade 02	16.6	16.6	16.6	
Steam Turbine-Facade 03	18.3	18.3	18.3	
Steam Turbine-Facade 04	12.0	12.0	12.0	
Steam Turbine-Roof 01	21.0	21.0	21.0	
Tank Farm Pump 1	18.2	18.2	18.2	
Tank Farm Pump 2	17.3	17.3	17.3	
Tank Farm Pump 3	17.1	17.1	17.1	
UP Train Locomotive Delivery and Pickup 2022 2x	21.4		30.2	
XF-1502 Splitter Area 1	24.6	24.6	24.6	
XF-1502 Splitter Area 2	24.6	24.6	24.6	
XF-1504 Splitter Area 1	24.6	24.6	24.6	
XF-1504 Splitter Area 2	24.6	24.6	24.6	
XF - 1601	22.7	22.7	22.7	
XF - 1602	22.6	22.6	22.6	
XF 251, 250, 271, 270	27.3	27.3	27.3	
XF 260, 261A, 261 B	25.7	25.7	25.7	
XF 304, XF 321	30.3	30.3	30.3	
XF 313, XF 314	33.5	33.5	33.5	
XF 335-1, XF 335-2	32.8	32.8	32.8	
XF 353A/B	23.3	23.3	23.3	
XF 353A/B	27.4	27.4	27.4	
XF 354A/B	20.1	20.1	20.1	
XF 503	34.9	34.9	34.9	
XF Module 1510	20.1	20.1	20.1	
XF Module 1519	28.9	28.9	28.9	
Receiver S-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 57.0 dB(A)	Ld 7-19 dB(A)	Leq,N 57.0 dB(A)	Le 19-2
ID Fan Motor	20.7	20.7	20.7	
18-1855 A/B	17.7	17.7	17.7	
18-1856 A/B	18.2	18.2	18.2	
18-1857 A/B	17.6	17.6	17.6	
18-1858 A/B	17.4	17.4	17.4	
18-PK 1802 Air Compressor Package	25.2	25.2	25.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	27.6		30.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Air Compressor C 1	28.1	28.1	28.1	
Air Compressor Pump	14.3	14.3	14.3	
Blower F 401	30.7	30.7	30.7	
Boiler Crude Unit-Heater Opening	20.8	20.8	20.8	
Boiler Feed Water Pump A	16.2	16.2	16.2	
Boiler Feed Water Pump B	16.2	16.2	16.2	
C-270 A	25.8	25.8	25.8	
C-270 B	25.6	25.6	25.6	
C-270 C	26.0	26.0	26.0	
C-301 Compressor	26.8	26.8	26.8	
C-301 Motor	24.6	24.6	24.6	
C-351 Compressor	27.5	27.5	27.5	
C-351 Motor	25.3	25.3	25.3	
C370 A Motor	19.2	19.2	19.2	
C370 B Motor	23.6	23.6	23.6	
C370A	20.2	20.2	20.2	
C370B	19.8	19.8	19.8	
Cars Pumping 6 times in during delivery	25.1		33.9	
Compressor House C301, C302, C 124-Comp House East 1	20.4	20.4	20.4	
Compressor House C301, C302, C 124-Comp House East 2	15.3	15.3	15.3	
Compressor House C301, C302, C 124-Comp House North	13.3	13.3	13.3	
Compressor House C301, C302, C 124-Comp House South 1	27.8	27.8	27.8	
Compressor House C301, C302, C 124-Comp House South 2	24.2	24.2	24.2	
Compressor House C301, C302, C 124-Comp House West	5.0	5.0	5.0	
Construction / Renewable Fuels Truck Tr	55.4	55.4	55.4	
Cooling Tower CT 510-CT 510 East Side	15.5	15.5	15.5	
Cooling Tower CT 510-CT 510 West Side	4.6	4.6	4.6	
Cooling Tower CT 511-CT 511 East Side	21.1	21.1	21.1	
Cooling Tower CT 511-CT 511 West Side	12.8	12.8	12.8	
Cooling Tower M 512	13.9	13.9	13.9	
Cooling Tower M 513	13.9	13.9	13.9	
Cooling Tower M 514	11.5	11.5	11.5	
Crude Operatoin Truck Truck Traffic	42.3	43.3	43.3	
E 321 Fin Fan Hydrogen Plant - Low Noise	15.3	15.3	15.3	
FD Fan Assembly-FD Fan - East	20.9	20.9	20.9	
FD Fan Assembly-FD Fan - North	19.5	19.5	19.5	
FD Fan Assembly-FD Fan - Roof	19.5	19.5	19.5	
FD Fan Assembly-FD Fan - South	19.5	19.5	19.5	
FD Fan Assembly-FD Fan - West	20.4	20.4	20.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
FD Motor	20.4	20.4	20.4	
Feed Compressor-A Compressor	21.4	21.4	21.4	
Feed Compressor-A Motor	18.6	18.6	18.6	
Feed Compressor-B Compressor	20.9	20.9	20.9	
Feed Compressor -B Motor	17.6	17.6	17.6	
H2S Compressor 18-C-271	19.3	19.3	19.3	
Heater # 5-Heater	18.8	18.8	18.8	
Heater # 5-Heater	18.8	18.8	18.8	
Heater # 5-Heater	18.8	18.8	18.8	
Hydro Heater H-402	13.1	13.1	13.1	
ID Fan-ID Fan - East (128302)	14.7	14.7	14.7	
ID Fan-ID Fan - East 1 (128306)	12.5	12.5	12.5	
ID Fan-ID Fan - North	17.2	17.2	17.2	
ID Fan-ID Fan - North 2	13.1	13.1	13.1	
ID Fan-ID Fan - South	19.2	19.2	19.2	
ID Fan-ID Fan - South 2	18.3	18.3	18.3	
ID Fan-ID Fan Roof 01 (128293)	20.8	20.8	20.8	
Motor & Pump P - 1502 Splitter Reflux Pu	8.7	8.7	8.7	
Motor & Pump P - 1503 Splitter Bottoms P	9.6	9.6	9.6	
Motor & Pump P - 1504 Splitter Bottoms P	9.9	9.9	9.9	
Motor & Pump P - 1507 Reactor Pump	10.9	10.9	10.9	
Motor & Pump P - 1508 Reactor Pump	10.1	10.1	10.1	
Motor & Pump P - 1511 Stabilizer Reflux	8.6	8.6	8.6	
Motor & Pump P - 1512 Stabilizer Reflux	10.6	10.6	10.6	
Motor & Pump P - 1513 Caustic Circulatin	11.2	11.2	11.2	
Motor & Pump P - 1514 Caustic Circulatin	11.3	11.3	11.3	
Motor & Pump P 120/121	10.5	10.5	10.5	
Motor & Pump P 1505 FRESH FEED PUMPS	10.1	10.1	10.1	
Motor & Pump P 1506 FRESH FEED PUMPS	10.5	10.5	10.5	
Motor & Pump P 1509 Chloride Injection P	8.3	8.3	8.3	
Motor & Pump P 1510 Chloride Injection P	8.3	8.3	8.3	
Motor & Pump P 1601 A	11.6	11.6	11.6	
Motor & Pump P 1601 B	11.6	11.6	11.6	
Motor & Pump P 1602 A	11.6	11.6	11.6	
Motor & Pump P 1602 B	11.9	11.9	11.9	
Motor & Pump P 211/212	6.2	6.2	6.2	
Motor & Pump P 215/214	7.1	7.1	7.1	
Motor & Pump P 216	10.6	10.6	10.6	
Motor & Pump P 217/218	5.5	5.5	5.5	
Motor & Pump P 300	9.5	9.5	9.5	
Motor & Pump P 301	14.4	14.4	14.4	
Motor & Pump P 302	9.5	9.5	9.5	
Motor & Pump P 303	10.1	10.1	10.1	
Motor & Pump P 305	10.5	10.5	10.5	
Motor & Pump P 306	24.7	24.7	24.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 307	15.2	15.2	15.2	
Motor & Pump P 309	10.6	10.6	10.6	
Motor & Pump P 312	15.4	15.4	15.4	
Motor & Pump P 313	17.5	17.5	17.5	
Motor & Pump P 315	15.9	15.9	15.9	
Motor & Pump P 316	15.8	15.8	15.8	
Motor & Pump P 317	16.6	16.6	16.6	
Motor & Pump P 318	13.7	13.7	13.7	
Motor & Pump P 319	13.8	13.8	13.8	
Motor & Pump P 327	24.7	24.7	24.7	
Motor & Pump P 328	23.4	23.4	23.4	
Motor & Pump P 329	22.3	22.3	22.3	
Motor & Pump P 451	6.7	6.7	6.7	
Motor & Pump P 453	6.7	6.7	6.7	
Motor & Pump P 454	6.7	6.7	6.7	
Motor & Pump P 457	6.8	6.8	6.8	
Motor & Pump P 458	6.7	6.7	6.7	
Motor & Pump P 459	6.7	6.7	6.7	
Motor & Pump P 56A/B	7.8	7.8	7.8	
Nitrogen Skid w Compressor 18-PK 1806	18.1	18.1	18.1	
P-060 A/B	21.5	21.5	21.5	
P-1101 A	23.1	23.1	23.1	
P-1103	23.1	23.1	23.1	
P-1105 A/B/C	23.4	23.4	23.4	
P-1800	26.5	26.5	26.5	
P-1801	46.1	46.1	46.1	
P-1802	45.0	45.0	45.0	
P-1803	21.8	21.8	21.8	
P-1804	24.8	24.8	24.8	
P-1805	25.6	25.6	25.6	
P-1806	23.0	23.0	23.0	
P-1809 A	27.1	27.1	27.1	
P-1810 A/B/C	24.2	24.2	24.2	
P-1811 A/B	21.0	21.0	21.0	
P-1811 A/B	24.2	24.2	24.2	
P-1847 A/B	20.3	20.3	20.3	
P-1849 A/B	20.5	20.5	20.5	
P-1853	20.1	20.1	20.1	
P-2 A/B	25.2	25.2	25.2	
P-251 A/B	16.8	16.8	16.8	
P-252 A/B	16.3	16.3	16.3	
P-253	16.7	16.7	16.7	
P-254 A/B	16.9	16.9	16.9	
P-255 A/B	16.8	16.8	16.8	
P-255 A/B	16.9	16.9	16.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-256 A/B	16.7	16.7	16.7	
P-259 A/B	16.8	16.8	16.8	
P-260	17.0	17.0	17.0	
P-261 A/B	15.8	15.8	15.8	
P-262 A/B	16.9	16.9	16.9	
P-263 A/B	17.2	17.2	17.2	
P-270 A/B	18.0	18.0	18.0	
P-271 A/B	17.1	17.1	17.1	
P-272 A/B	17.0	17.0	17.0	
P-273 A/B	17.8	17.8	17.8	
P-275 A/B/C	16.9	16.9	16.9	
P-305	21.3	21.3	21.3	
P-306	23.0	23.0	23.0	
P-309	21.3	21.3	21.3	
P-328	23.1	23.1	23.1	
P-329	23.1	23.1	23.1	
P-353	22.0	22.0	22.0	
P-358 A/B	20.2	20.2	20.2	
P-359 A/B	20.3	20.3	20.3	
P-360 A/B	20.9	20.9	20.9	
P-361A	20.4	20.4	20.4	
P-371 A/B	15.5	15.5	15.5	
P-373 A/B	15.6	15.6	15.6	
P-374 A/B	15.6	15.6	15.6	
P-375 A/B	15.5	15.5	15.5	
P-376	15.5	15.5	15.5	
P-376 A/B	12.3	12.3	12.3	
P-377	15.5	15.5	15.5	
P-50 A/B	21.5	21.5	21.5	
P-51 A/B	22.8	22.8	22.8	
P-63	23.6	23.6	23.6	
P-70 A/B	21.7	21.7	21.7	
P-73 A/B	24.8	24.8	24.8	
Piping Furnace Tanks	-2.5	-2.5	-2.5	
Piping Hydrogen Tanks Compressor	9.1	9.1	9.1	
Piping Hydrogen Tanks Compressor w NC	27.5	27.5	27.5	
Piping Hydrogen Tanks Compressorw NC	22.2	22.2	22.2	
Pre-Treat Train-Pre-Treat Outside Area E	33.9	33.9	33.9	
Pre-Treat Train-Pre-Treat Outside Area N	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area N2	24.2	24.2	24.2	
Pre-Treat Train-Pre-Treat Outside Area S	42.4	42.4	42.4	
Pre-Treat Train-Pre-Treat Outside Area S2	25.0	25.0	25.0	
Pre-Treat Train-Pre-Treat Outside Area W1	23.6	23.6	23.6	
Pre-Treat Train-Pre-Treat Outside Area W2	26.9	26.9	26.9	
Pre-Treat Train-Pre-Treat Outside Area W3	27.5	27.5	27.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Pre-Treat Train-Roof 01	40.6	40.6	40.6	
PSA Pipe 3" Lagging	-6.5	-6.5	-6.5	
PSA Skid Additional Piping w NC	29.6	29.6	29.6	
Reformer-Burner Reformer East	14.5	14.5	14.5	
Reformer-Burner Reformer North	10.1	10.1	10.1	
Reformer-Burner Reformer South	14.4	14.4	14.4	
Reformer-Burner Reformer West	16.1	16.1	16.1	
Revised Renewable Fuels Delivery for Pre	22.3	23.3	23.3	
Revised Renewable Fuels Delivery for Pre	32.4	33.4	33.4	
RFG A from battery to process	10.0	10.0	10.0	
RFG A from battery to process w NC	22.5	22.5	22.5	
Stack Noise	26.3	26.3	26.3	
Steam Turbine-Facade 01	14.3	14.3	14.3	
Steam Turbine-Facade 02	11.7	11.7	11.7	
Steam Turbine-Facade 03	13.7	13.7	13.7	
Steam Turbine-Facade 04	9.3	9.3	9.3	
Steam Turbine-Roof 01	15.1	15.1	15.1	
Tank Farm Pump 1	18.1	18.1	18.1	
Tank Farm Pump 2	18.0	18.0	18.0	
Tank Farm Pump 3	18.2	18.2	18.2	
UP Train Locomotive Delivery and Pickup 2022 2x	18.8		27.6	
XF-1502 Splitter Area 1	19.0	19.0	19.0	
XF-1502 Splitter Area 2	19.0	19.0	19.0	
XF-1504 Splitter Area 1	19.0	19.0	19.0	
XF-1504 Splitter Area 2	19.1	19.1	19.1	
XF - 1601	16.4	16.4	16.4	
XF - 1602	16.4	16.4	16.4	
XF 251, 250, 271, 270	22.5	22.5	22.5	
XF 260, 261A, 261 B	21.6	21.6	21.6	
XF 304, XF 321	27.6	27.6	27.6	
XF 313, XF 314	28.3	28.3	28.3	
XF 335-1, XF 335-2	29.1	29.1	29.1	
XF 353A/B	18.4	18.4	18.4	
XF 353A/B	19.8	19.8	19.8	
XF 354A/B	20.8	20.8	20.8	
XF 503	25.4	25.4	25.4	
XF Module 1510	22.9	22.9	22.9	
XF Module 1519	23.4	23.4	23.4	
Receiver S-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 52.2 dB(A)	Ld 7-19 dB(A)	Leq,N 52.2 dB(A)	Le 19-2
ID Fan Motor	23.2	23.2	23.2	
18-1855 A/B	18.7	18.7	18.7	
18-1856 A/B	19.1	19.1	19.1	
18-1857 A/B	18.3	18.3	18.3	
18-1858 A/B	18.1	18.1	18.1	
18-PK 1802 Air Compressor Package	25.8	25.8	25.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
2022 Track Mobile moving rail cars 2 x 25 cars day time	30.6		33.3	
Air Compressor C 1	29.1	29.1	29.1	
Air Compressor Pump	12.5	12.5	12.5	
Blower F 401	29.7	29.7	29.7	
Boiler Crude Unit-Heater Opening	23.8	23.8	23.8	
Boiler Feed Water Pump A	17.4	17.4	17.4	
Boiler Feed Water Pump B	17.1	17.1	17.1	
C-270 A	26.1	26.1	26.1	
C-270 B	26.0	26.0	26.0	
C-270 C	26.3	26.3	26.3	
C-301 Compressor	28.0	28.0	28.0	
C-301 Motor	25.5	25.5	25.5	
C-351 Compressor	28.0	28.0	28.0	
C-351 Motor	26.5	26.5	26.5	
C370 A Motor	19.3	19.3	19.3	
C370 B Motor	23.6	23.6	23.6	
C370A	20.5	20.5	20.5	
C370B	19.2	19.2	19.2	
Cars Pumping 6 times in during delivery	29.2		37.9	
Compressor House C301, C302, C 124-Comp House East 1	20.7	20.7	20.7	
Compressor House C301, C302, C 124-Comp House East 2	15.2	15.2	15.2	
Compressor House C301, C302, C 124-Comp House North	13.2	13.2	13.2	
Compressor House C301, C302, C 124-Comp House South 1	27.8	27.8	27.8	
Compressor House C301, C302, C 124-Comp House South 2	23.9	23.9	23.9	
Compressor House C301, C302, C 124-Comp House West	5.4	5.4	5.4	
Construction / Renewable Fuels Truck Tr	49.8	49.8	49.8	
Cooling Tower CT 510-CT 510 East Side	15.5	15.5	15.5	
Cooling Tower CT 510-CT 510 West Side	3.9	3.9	3.9	
Cooling Tower CT 511-CT 511 East Side	20.6	20.6	20.6	
Cooling Tower CT 511-CT 511 West Side	12.7	12.7	12.7	
Cooling Tower M 512	13.3	13.3	13.3	
Cooling Tower M 513	13.2	13.2	13.2	
Cooling Tower M 514	11.3	11.3	11.3	
Crude Operatoin Truck Truck Traffic	40.4	41.4	41.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	14.8	14.8	14.8	
FD Fan Assembly-FD Fan - East	22.3	22.3	22.3	
FD Fan Assembly-FD Fan - North	20.0	20.0	20.0	
FD Fan Assembly-FD Fan - Roof	19.0	19.0	19.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
FD Fan Assembly-FD Fan - South	19.9	19.9	19.9	
FD Fan Assembly-FD Fan - West	20.5	20.5	20.5	
FD Motor	20.4	20.4	20.4	
Feed Compressor-A Compressor	21.7	21.7	21.7	
Feed Compressor-A Motor	18.7	18.7	18.7	
Feed Compressor-B Compressor	20.9	20.9	20.9	
Feed Compressor -B Motor	17.7	17.7	17.7	
H2S Compressor 18-C-271	19.4	19.4	19.4	
Heater # 5-Heater	20.7	20.7	20.7	
Heater # 5-Heater	21.8	21.8	21.8	
Heater # 5-Heater	20.6	20.6	20.6	
Hydro Heater H-402	15.1	15.1	15.1	
ID Fan-ID Fan - East (128302)	16.8	16.8	16.8	
ID Fan-ID Fan - East 1 (128306)	17.8	17.8	17.8	
ID Fan-ID Fan - North	21.2	21.2	21.2	
ID Fan-ID Fan - North 2	17.6	17.6	17.6	
ID Fan-ID Fan - South	21.1	21.1	21.1	
ID Fan-ID Fan - South 2	26.2	26.2	26.2	
ID Fan-ID Fan Roof 01 (128293)	25.7	25.7	25.7	
Motor & Pump P - 1502 Splitter Reflux Pu	9.6	9.6	9.6	
Motor & Pump P - 1503 Splitter Bottoms P	9.5	9.5	9.5	
Motor & Pump P - 1504 Splitter Bottoms P	9.5	9.5	9.5	
Motor & Pump P - 1507 Reactor Pump	11.5	11.5	11.5	
Motor & Pump P - 1508 Reactor Pump	10.7	10.7	10.7	
Motor & Pump P - 1511 Stabilizer Reflux	10.3	10.3	10.3	
Motor & Pump P - 1512 Stabilizer Reflux	11.2	11.2	11.2	
Motor & Pump P - 1513 Caustic Circulatin	10.9	10.9	10.9	
Motor & Pump P - 1514 Caustic Circulatin	10.9	10.9	10.9	
Motor & Pump P 120/121	10.5	10.5	10.5	
Motor & Pump P 1505 FRESH FEED PUMPS	9.2	9.2	9.2	
Motor & Pump P 1506 FRESH FEED PUMPS	11.5	11.5	11.5	
Motor & Pump P 1509 Chloride Injection P	8.8	8.8	8.8	
Motor & Pump P 1510 Chloride Injection P	8.8	8.8	8.8	
Motor & Pump P 1601 A	11.3	11.3	11.3	
Motor & Pump P 1601 B	11.3	11.3	11.3	
Motor & Pump P 1602 A	11.4	11.4	11.4	
Motor & Pump P 1602 B	11.6	11.6	11.6	
Motor & Pump P 211/212	7.6	7.6	7.6	
Motor & Pump P 215/214	7.0	7.0	7.0	
Motor & Pump P 216	12.0	12.0	12.0	
Motor & Pump P 217/218	6.6	6.6	6.6	
Motor & Pump P 300	10.2	10.2	10.2	
Motor & Pump P 301	14.6	14.6	14.6	
Motor & Pump P 302	10.4	10.4	10.4	
Motor & Pump P 303	9.6	9.6	9.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 305	9.9	9.9	9.9	
Motor & Pump P 306	25.0	25.0	25.0	
Motor & Pump P 307	15.2	15.2	15.2	
Motor & Pump P 309	9.9	9.9	9.9	
Motor & Pump P 312	16.8	16.8	16.8	
Motor & Pump P 313	16.8	16.8	16.8	
Motor & Pump P 315	15.1	15.1	15.1	
Motor & Pump P 316	16.5	16.5	16.5	
Motor & Pump P 317	17.0	17.0	17.0	
Motor & Pump P 318	14.2	14.2	14.2	
Motor & Pump P 319	12.4	12.4	12.4	
Motor & Pump P 327	25.5	25.5	25.5	
Motor & Pump P 328	22.1	22.1	22.1	
Motor & Pump P 329	22.4	22.4	22.4	
Motor & Pump P 451	6.9	6.9	6.9	
Motor & Pump P 453	7.4	7.4	7.4	
Motor & Pump P 454	7.0	7.0	7.0	
Motor & Pump P 457	7.4	7.4	7.4	
Motor & Pump P 458	6.9	6.9	6.9	
Motor & Pump P 459	7.0	7.0	7.0	
Motor & Pump P 56A/B	7.7	7.7	7.7	
Nitrogen Skid w Compressor 18-PK 1806	18.7	18.7	18.7	
P-060 A/B	23.0	23.0	23.0	
P-1101 A	36.1	36.1	36.1	
P-1103	36.0	36.0	36.0	
P-1105 A/B/C	27.3	27.3	27.3	
P-1800	31.4	31.4	31.4	
P-1801	32.9	32.9	32.9	
P-1802	32.6	32.6	32.6	
P-1803	23.4	23.4	23.4	
P-1804	24.0	24.0	24.0	
P-1805	24.1	24.1	24.1	
P-1806	26.6	26.6	26.6	
P-1809 A	31.9	31.9	31.9	
P-1810 A/B/C	23.5	23.5	23.5	
P-1811 A/B	25.4	25.4	25.4	
P-1811 A/B	27.0	27.0	27.0	
P-1847 A/B	22.2	22.2	22.2	
P-1849 A/B	20.9	20.9	20.9	
P-1853	21.9	21.9	21.9	
P-2 A/B	27.0	27.0	27.0	
P-251 A/B	17.8	17.8	17.8	
P-252 A/B	17.1	17.1	17.1	
P-253	17.5	17.5	17.5	
P-254 A/B	17.8	17.8	17.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-255 A/B	17.5	17.5	17.5	
P-255 A/B	17.8	17.8	17.8	
P-256 A/B	17.8	17.8	17.8	
P-259 A/B	17.8	17.8	17.8	
P-260	17.9	17.9	17.9	
P-261 A/B	16.6	16.6	16.6	
P-262 A/B	17.7	17.7	17.7	
P-263 A/B	18.1	18.1	18.1	
P-270 A/B	19.2	19.2	19.2	
P-271 A/B	18.0	18.0	18.0	
P-272 A/B	17.9	17.9	17.9	
P-273 A/B	19.0	19.0	19.0	
P-275 A/B/C	17.9	17.9	17.9	
P-305	22.5	22.5	22.5	
P-306	24.3	24.3	24.3	
P-309	22.6	22.6	22.6	
P-328	26.0	26.0	26.0	
P-329	25.9	25.9	25.9	
P-353	23.4	23.4	23.4	
P-358 A/B	22.0	22.0	22.0	
P-359 A/B	22.1	22.1	22.1	
P-360 A/B	22.6	22.6	22.6	
P-361A	25.7	25.7	25.7	
P-371 A/B	15.2	15.2	15.2	
P-373 A/B	15.4	15.4	15.4	
P-374 A/B	15.4	15.4	15.4	
P-375 A/B	15.3	15.3	15.3	
P-376	15.3	15.3	15.3	
P-376 A/B	12.5	12.5	12.5	
P-377	15.3	15.3	15.3	
P-50 A/B	23.6	23.6	23.6	
P-51 A/B	23.4	23.4	23.4	
P-63	25.2	25.2	25.2	
P-70 A/B	23.1	23.1	23.1	
P-73 A/B	26.7	26.7	26.7	
Piping Furnace Tanks	-1.8	-1.8	-1.8	
Piping Hydrogen Tanks Compressor	9.0	9.0	9.0	
Piping Hydrogen Tanks Compressor w NC	28.6	28.6	28.6	
Piping Hydrogen Tanks Compressorw NC	23.4	23.4	23.4	
Pre-Treat Train-Pre-Treat Outside Area E	32.0	32.0	32.0	
Pre-Treat Train-Pre-Treat Outside Area N	31.1	31.1	31.1	
Pre-Treat Train-Pre-Treat Outside Area N2	24.0	24.0	24.0	
Pre-Treat Train-Pre-Treat Outside Area S	33.2	33.2	33.2	
Pre-Treat Train-Pre-Treat Outside Area S2	24.7	24.7	24.7	
Pre-Treat Train-Pre-Treat Outside Area W1	23.7	23.7	23.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W2	26.9	26.9	26.9	
Pre-Treat Train-Pre-Treat Outside Area W3	27.5	27.5	27.5	
Pre-Treat Train-Roof 01	33.9	33.9	33.9	
PSA Pipe 3" Lagging	-5.7	-5.7	-5.7	
PSA Skid Additional Piping w NC	30.6	30.6	30.6	
Reformer-Burner Reformer East	18.3	18.3	18.3	
Reformer-Burner Reformer North	10.0	10.0	10.0	
Reformer-Burner Reformer South	14.6	14.6	14.6	
Reformer-Burner Reformer West	16.2	16.2	16.2	
Revised Renewable Fuels Delivery for Pre	11.3	12.2	12.2	
Revised Renewable Fuels Delivery for Pre	32.5	33.4	33.4	
RFG A from battery to process	10.1	10.1	10.1	
RFG A from battery to process w NC	24.0	24.0	24.0	
Stack Noise	36.3	36.3	36.3	
Steam Turbine-Facade 01	14.1	14.1	14.1	
Steam Turbine-Facade 02	11.9	11.9	11.9	
Steam Turbine-Facade 03	13.7	13.7	13.7	
Steam Turbine-Facade 04	8.6	8.6	8.6	
Steam Turbine-Roof 01	14.9	14.9	14.9	
Tank Farm Pump 1	18.5	18.5	18.5	
Tank Farm Pump 2	19.8	19.8	19.8	
Tank Farm Pump 3	18.8	18.8	18.8	
UP Train Locomotive Delivery and Pickup 2022 2x	18.3		27.1	
XF-1502 Splitter Area 1	17.6	17.6	17.6	
XF-1502 Splitter Area 2	17.7	17.7	17.7	
XF-1504 Splitter Area 1	17.7	17.7	17.7	
XF-1504 Splitter Area 2	17.7	17.7	17.7	
XF - 1601	15.8	15.8	15.8	
XF - 1602	15.8	15.8	15.8	
XF 251, 250, 271, 270	24.5	24.5	24.5	
XF 260, 261A, 261 B	22.1	22.1	22.1	
XF 304, XF 321	26.1	26.1	26.1	
XF 313, XF 314	25.6	25.6	25.6	
XF 335-1, XF 335-2	27.0	27.0	27.0	
XF 353A/B	20.3	20.3	20.3	
XF 353A/B	19.2	19.2	19.2	
XF 354A/B	23.9	23.9	23.9	
XF 503	23.7	23.7	23.7	
XF Module 1510	21.5	21.5	21.5	
XF Module 1519	22.1	22.1	22.1	
Receiver S-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 55.6 dB(A)	Ld 7-19 dB(A)	Leq,N 55.5 dB(A)	Le 19-2
ID Fan Motor	26.3	26.3	26.3	
18-1855 A/B	28.1	28.1	28.1	
18-1856 A/B	28.0	28.0	28.0	
18-1857 A/B	28.1	28.1	28.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
18-1858 A/B	28.2	28.2	28.2	
18-PK 1802 Air Compressor Package	35.4	35.4	35.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	37.9		40.6	
Air Compressor C 1	35.1	35.1	35.1	
Air Compressor Pump	18.6	18.6	18.6	
Blower F 401	36.8	36.8	36.8	
Boiler Crude Unit-Heater Opening	29.9	29.9	29.9	
Boiler Feed Water Pump A	24.9	24.9	24.9	
Boiler Feed Water Pump B	24.8	24.8	24.8	
C-270 A	38.3	38.3	38.3	
C-270 B	39.0	39.0	39.0	
C-270 C	38.2	38.2	38.2	
C-301 Compressor	36.4	36.4	36.4	
C-301 Motor	34.7	34.7	34.7	
C-351 Compressor	39.0	39.0	39.0	
C-351 Motor	38.5	38.5	38.5	
C370 A Motor	29.8	29.8	29.8	
C370 B Motor	34.9	34.9	34.9	
C370A	30.1	30.1	30.1	
C370B	29.9	29.9	29.9	
Cars Pumping 6 times in during delivery	36.2		45.0	
Compressor House C301, C302, C 124-Comp House East 1	29.4	29.4	29.4	
Compressor House C301, C302, C 124-Comp House East 2	23.1	23.1	23.1	
Compressor House C301, C302, C 124-Comp House North	17.2	17.2	17.2	
Compressor House C301, C302, C 124-Comp House South 1	35.1	35.1	35.1	
Compressor House C301, C302, C 124-Comp House South 2	30.8	30.8	30.8	
Compressor House C301, C302, C 124-Comp House West	9.5	9.5	9.5	
Construction / Renewable Fuels Truck Tr	46.3	46.3	46.3	
Cooling Tower CT 510-CT 510 East Side	24.7	24.7	24.7	
Cooling Tower CT 510-CT 510 West Side	8.0	8.0	8.0	
Cooling Tower CT 511-CT 511 East Side	30.9	30.9	30.9	
Cooling Tower CT 511-CT 511 West Side	19.2	19.2	19.2	
Cooling Tower M 512	23.2	23.2	23.2	
Cooling Tower M 513	23.3	23.3	23.3	
Cooling Tower M 514	23.4	23.4	23.4	
Crude Operatoin Truck Truck Traffic	27.2	28.2	28.2	
E 321 Fin Fan Hydrogen Plant - Low Noise	24.3	24.3	24.3	
FD Fan Assembly-FD Fan - East	30.3	30.3	30.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
FD Fan Assembly-FD Fan - North	24.7	24.7	24.7	
FD Fan Assembly-FD Fan - Roof	26.8	26.8	26.8	
FD Fan Assembly-FD Fan - South	27.6	27.6	27.6	
FD Fan Assembly-FD Fan - West	25.0	25.0	25.0	
FD Motor	29.5	29.5	29.5	
Feed Compressor-A Compressor	31.0	31.0	31.0	
Feed Compressor-A Motor	29.0	29.0	29.0	
Feed Compressor-B Compressor	30.2	30.2	30.2	
Feed Compressor -B Motor	29.0	29.0	29.0	
H2S Compressor 18-C-271	27.5	27.5	27.5	
Heater # 5-Heater	34.1	34.1	34.1	
Heater # 5-Heater	27.8	27.8	27.8	
Heater # 5-Heater	34.6	34.6	34.6	
Hydro Heater H-402	20.6	20.6	20.6	
ID Fan-ID Fan - East (128302)	26.5	26.5	26.5	
ID Fan-ID Fan - East 1 (128306)	19.1	19.1	19.1	
ID Fan-ID Fan - North	23.3	23.3	23.3	
ID Fan-ID Fan - North 2	20.7	20.7	20.7	
ID Fan-ID Fan - South	30.7	30.7	30.7	
ID Fan-ID Fan - South 2	29.7	29.7	29.7	
ID Fan-ID Fan Roof 01 (128293)	31.1	31.1	31.1	
Motor & Pump P - 1502 Splitter Reflux Pu	13.2	13.2	13.2	
Motor & Pump P - 1503 Splitter Bottoms P	13.4	13.4	13.4	
Motor & Pump P - 1504 Splitter Bottoms P	13.7	13.7	13.7	
Motor & Pump P - 1507 Reactor Pump	15.1	15.1	15.1	
Motor & Pump P - 1508 Reactor Pump	16.2	16.2	16.2	
Motor & Pump P - 1511 Stabilizer Reflux	20.0	20.0	20.0	
Motor & Pump P - 1512 Stabilizer Reflux	18.2	18.2	18.2	
Motor & Pump P - 1513 Caustic Circulatin	14.0	14.0	14.0	
Motor & Pump P - 1514 Caustic Circulatin	14.0	14.0	14.0	
Motor & Pump P 120/121	14.0	14.0	14.0	
Motor & Pump P 1505 FRESH FEED PUMPS	14.1	14.1	14.1	
Motor & Pump P 1506 FRESH FEED PUMPS	14.0	14.0	14.0	
Motor & Pump P 1509 Chloride Injection P	18.4	18.4	18.4	
Motor & Pump P 1510 Chloride Injection P	18.4	18.4	18.4	
Motor & Pump P 1601 A	20.1	20.1	20.1	
Motor & Pump P 1601 B	20.0	20.0	20.0	
Motor & Pump P 1602 A	20.0	20.0	20.0	
Motor & Pump P 1602 B	20.2	20.2	20.2	
Motor & Pump P 211/212	19.0	19.0	19.0	
Motor & Pump P 215/214	12.0	12.0	12.0	
Motor & Pump P 216	16.7	16.7	16.7	
Motor & Pump P 217/218	19.6	19.6	19.6	
Motor & Pump P 300	16.6	16.6	16.6	
Motor & Pump P 301	20.5	20.5	20.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 302	16.3	16.3	16.3	
Motor & Pump P 303	16.0	16.0	16.0	
Motor & Pump P 305	15.0	15.0	15.0	
Motor & Pump P 306	30.2	30.2	30.2	
Motor & Pump P 307	16.2	16.2	16.2	
Motor & Pump P 309	15.8	15.8	15.8	
Motor & Pump P 312	25.4	25.4	25.4	
Motor & Pump P 313	19.9	19.9	19.9	
Motor & Pump P 315	19.0	19.0	19.0	
Motor & Pump P 316	22.1	22.1	22.1	
Motor & Pump P 317	22.9	22.9	22.9	
Motor & Pump P 318	17.5	17.5	17.5	
Motor & Pump P 319	17.5	17.5	17.5	
Motor & Pump P 327	27.4	27.4	27.4	
Motor & Pump P 328	28.7	28.7	28.7	
Motor & Pump P 329	27.8	27.8	27.8	
Motor & Pump P 451	11.4	11.4	11.4	
Motor & Pump P 453	15.5	15.5	15.5	
Motor & Pump P 454	12.0	12.0	12.0	
Motor & Pump P 457	15.5	15.5	15.5	
Motor & Pump P 458	11.3	11.3	11.3	
Motor & Pump P 459	11.5	11.5	11.5	
Motor & Pump P 56A/B	16.3	16.3	16.3	
Nitrogen Skid w Compressor 18-PK 1806	27.2	27.2	27.2	
P-060 A/B	28.4	28.4	28.4	
P-1101 A	39.1	39.1	39.1	
P-1103	30.3	30.3	30.3	
P-1105 A/B/C	38.4	38.4	38.4	
P-1800	34.4	34.4	34.4	
P-1801	28.3	28.3	28.3	
P-1802	31.6	31.6	31.6	
P-1803	29.2	29.2	29.2	
P-1804	31.7	31.7	31.7	
P-1805	31.5	31.5	31.5	
P-1806	28.0	28.0	28.0	
P-1809 A	32.7	32.7	32.7	
P-1810 A/B/C	36.8	36.8	36.8	
P-1811 A/B	30.4	30.4	30.4	
P-1811 A/B	36.9	36.9	36.9	
P-1847 A/B	23.9	23.9	23.9	
P-1849 A/B	25.3	25.3	25.3	
P-1853	31.9	31.9	31.9	
P-2 A/B	39.8	39.8	39.8	
P-251 A/B	32.0	32.0	32.0	
P-252 A/B	27.7	27.7	27.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-253	27.9	27.9	27.9	
P-254 A/B	31.7	31.7	31.7	
P-255 A/B	31.7	31.7	31.7	
P-255 A/B	30.9	30.9	30.9	
P-256 A/B	32.0	32.0	32.0	
P-259 A/B	31.9	31.9	31.9	
P-260	31.9	31.9	31.9	
P-261 A/B	29.2	29.2	29.2	
P-262 A/B	30.7	30.7	30.7	
P-263 A/B	32.2	32.2	32.2	
P-270 A/B	28.0	28.0	28.0	
P-271 A/B	27.6	27.6	27.6	
P-272 A/B	28.2	28.2	28.2	
P-273 A/B	27.7	27.7	27.7	
P-275 A/B/C	27.8	27.8	27.8	
P-305	33.5	33.5	33.5	
P-306	38.6	38.6	38.6	
P-309	32.9	32.9	32.9	
P-328	39.0	39.0	39.0	
P-329	38.6	38.6	38.6	
P-353	40.0	40.0	40.0	
P-358 A/B	28.3	28.3	28.3	
P-359 A/B	35.7	35.7	35.7	
P-360 A/B	36.2	36.2	36.2	
P-361A	27.7	27.7	27.7	
P-371 A/B	23.9	23.9	23.9	
P-373 A/B	26.0	26.0	26.0	
P-374 A/B	23.7	23.7	23.7	
P-375 A/B	24.8	24.8	24.8	
P-376	23.8	23.8	23.8	
P-376 A/B	25.9	25.9	25.9	
P-377	23.8	23.8	23.8	
P-50 A/B	32.0	32.0	32.0	
P-51 A/B	32.1	32.1	32.1	
P-63	33.0	33.0	33.0	
P-70 A/B	28.5	28.5	28.5	
P-73 A/B	39.9	39.9	39.9	
Piping Furnace Tanks	7.2	7.2	7.2	
Piping Hydrogen Tanks Compressor	18.6	18.6	18.6	
Piping Hydrogen Tanks Compressor w NC	33.0	33.0	33.0	
Piping Hydrogen Tanks Compressorw NC	28.0	28.0	28.0	
Pre-Treat Train-Pre-Treat Outside Area E	31.9	31.9	31.9	
Pre-Treat Train-Pre-Treat Outside Area N	31.5	31.5	31.5	
Pre-Treat Train-Pre-Treat Outside Area N2	26.0	26.0	26.0	
Pre-Treat Train-Pre-Treat Outside Area S	34.4	34.4	34.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Pre-Treat Train-Pre-Treat Outside Area S2	29.2	29.2	29.2	
Pre-Treat Train-Pre-Treat Outside Area W1	27.6	27.6	27.6	
Pre-Treat Train-Pre-Treat Outside Area W2	32.2	32.2	32.2	
Pre-Treat Train-Pre-Treat Outside Area W3	34.1	34.1	34.1	
Pre-Treat Train-Roof 01	37.2	37.2	37.2	
PSA Pipe 3" Lagging	6.7	6.7	6.7	
PSA Skid Additional Piping w NC	35.2	35.2	35.2	
Reformer-Burner Reformer East	24.7	24.7	24.7	
Reformer-Burner Reformer North	11.2	11.2	11.2	
Reformer-Burner Reformer South	26.7	26.7	26.7	
Reformer-Burner Reformer West	29.8	29.8	29.8	
Revised Renewable Fuels Delivery for Pre	17.8	18.8	18.8	
Revised Renewable Fuels Delivery for Pre	40.0	40.9	40.9	
RFG A from battery to process	19.5	19.5	19.5	
RFG A from battery to process w NC	29.1	29.1	29.1	
Stack Noise	37.1	37.1	37.1	
Steam Turbine-Facade 01	21.4	21.4	21.4	
Steam Turbine-Facade 02	20.7	20.7	20.7	
Steam Turbine-Facade 03	21.8	21.8	21.8	
Steam Turbine-Facade 04	13.1	13.1	13.1	
Steam Turbine-Roof 01	24.4	24.4	24.4	
Tank Farm Pump 1	25.1	25.1	25.1	
Tank Farm Pump 2	23.6	23.6	23.6	
Tank Farm Pump 3	22.3	22.3	22.3	
UP Train Locomotive Delivery and Pickup 2022 2x	25.1		33.8	
XF-1502 Splitter Area 1	30.0	30.0	30.0	
XF-1502 Splitter Area 2	30.1	30.1	30.1	
XF-1504 Splitter Area 1	30.1	30.1	30.1	
XF-1504 Splitter Area 2	30.2	30.2	30.2	
XF - 1601	27.0	27.0	27.0	
XF - 1602	27.1	27.1	27.1	
XF 251, 250, 271, 270	35.5	35.5	35.5	
XF 260, 261A, 261 B	33.6	33.6	33.6	
XF 304, XF 321	36.9	36.9	36.9	
XF 313, XF 314	34.6	34.6	34.6	
XF 335-1, XF 335-2	37.4	37.4	37.4	
XF 353A/B	34.9	34.9	34.9	
XF 353A/B	32.5	32.5	32.5	
XF 354A/B	35.7	35.7	35.7	
XF 503	32.8	32.8	32.8	
XF Module 1510	34.1	34.1	34.1	
XF Module 1519	34.3	34.3	34.3	
Receiver S-5 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 59.2 dB(A)	Ld 7-19 dB(A)	Leq,N 58.8 dB(A)	Le 19-2
ID Fan Motor	26.7	26.7	26.7	
18-1855 A/B	32.4	32.4	32.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
18-1856 A/B	31.6	31.6	31.6	
18-1857 A/B	32.3	32.3	32.3	
18-1858 A/B	32.7	32.7	32.7	
18-PK 1802 Air Compressor Package	38.2	38.2	38.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	46.4		49.2	
Air Compressor C 1	35.6	35.6	35.6	
Air Compressor Pump	22.3	22.3	22.3	
Blower F 401	41.7	41.7	41.7	
Boiler Crude Unit-Heater Opening	41.1	41.1	41.1	
Boiler Feed Water Pump A	29.4	29.4	29.4	
Boiler Feed Water Pump B	30.8	30.8	30.8	
C-270 A	40.6	40.6	40.6	
C-270 B	40.6	40.6	40.6	
C-270 C	40.8	40.8	40.8	
C-301 Compressor	40.1	40.1	40.1	
C-301 Motor	39.4	39.4	39.4	
C-351 Compressor	45.2	45.2	45.2	
C-351 Motor	47.0	47.0	47.0	
C370 A Motor	36.5	36.5	36.5	
C370 B Motor	39.8	39.8	39.8	
C370A	36.7	36.7	36.7	
C370B	34.2	34.2	34.2	
Cars Pumping 6 times in during delivery	44.1		52.8	
Compressor House C301, C302, C 124-Comp House East 1	36.7	36.7	36.7	
Compressor House C301, C302, C 124-Comp House East 2	32.0	32.0	32.0	
Compressor House C301, C302, C 124-Comp House North	28.0	28.0	28.0	
Compressor House C301, C302, C 124-Comp House South 1	39.0	39.0	39.0	
Compressor House C301, C302, C 124-Comp House South 2	36.3	36.3	36.3	
Compressor House C301, C302, C 124-Comp House West	13.8	13.8	13.8	
Construction / Renewable Fuels Truck Tr	37.7	37.7	37.7	
Cooling Tower CT 510-CT 510 East Side	28.7	28.7	28.7	
Cooling Tower CT 510-CT 510 West Side	12.4	12.4	12.4	
Cooling Tower CT 511-CT 511 East Side	38.0	38.0	38.0	
Cooling Tower CT 511-CT 511 West Side	17.9	17.9	17.9	
Cooling Tower M 512	25.5	25.5	25.5	
Cooling Tower M 513	25.5	25.5	25.5	
Cooling Tower M 514	25.0	25.0	25.0	
Crude Operatoin Truck Truck Traffic	30.6	31.6	31.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
E 321 Fin Fan Hydrogen Plant - Low Noise	27.0	27.0	27.0	
FD Fan Assembly-FD Fan - East	31.4	31.4	31.4	
FD Fan Assembly-FD Fan - North	25.3	25.3	25.3	
FD Fan Assembly-FD Fan - Roof	26.9	26.9	26.9	
FD Fan Assembly-FD Fan - South	29.0	29.0	29.0	
FD Fan Assembly-FD Fan - West	24.6	24.6	24.6	
FD Motor	29.8	29.8	29.8	
Feed Compressor-A Compressor	34.9	34.9	34.9	
Feed Compressor-A Motor	33.9	33.9	33.9	
Feed Compressor-B Compressor	34.4	34.4	34.4	
Feed Compressor -B Motor	34.2	34.2	34.2	
H2S Compressor 18-C-271	34.4	34.4	34.4	
Heater # 5-Heater	34.8	34.8	34.8	
Heater # 5-Heater	33.3	33.3	33.3	
Heater # 5-Heater	40.7	40.7	40.7	
Hydro Heater H-402	26.9	26.9	26.9	
ID Fan-ID Fan - East (128302)	26.5	26.5	26.5	
ID Fan-ID Fan - East 1 (128306)	20.1	20.1	20.1	
ID Fan-ID Fan - North	24.4	24.4	24.4	
ID Fan-ID Fan - North 2	22.6	22.6	22.6	
ID Fan-ID Fan - South	30.7	30.7	30.7	
ID Fan-ID Fan - South 2	29.8	29.8	29.8	
ID Fan-ID Fan Roof 01 (128293)	31.8	31.8	31.8	
Motor & Pump P - 1502 Splitter Reflux Pu	17.7	17.7	17.7	
Motor & Pump P - 1503 Splitter Bottoms P	17.4	17.4	17.4	
Motor & Pump P - 1504 Splitter Bottoms P	18.1	18.1	18.1	
Motor & Pump P - 1507 Reactor Pump	19.8	19.8	19.8	
Motor & Pump P - 1508 Reactor Pump	19.4	19.4	19.4	
Motor & Pump P - 1511 Stabilizer Reflux	19.5	19.5	19.5	
Motor & Pump P - 1512 Stabilizer Reflux	19.4	19.4	19.4	
Motor & Pump P - 1513 Caustic Circulatin	19.1	19.1	19.1	
Motor & Pump P - 1514 Caustic Circulatin	19.3	19.3	19.3	
Motor & Pump P 120/121	18.8	18.8	18.8	
Motor & Pump P 1505 FRESH FEED PUMPS	18.3	18.3	18.3	
Motor & Pump P 1506 FRESH FEED PUMPS	18.5	18.5	18.5	
Motor & Pump P 1509 Chloride Injection P	16.1	16.1	16.1	
Motor & Pump P 1510 Chloride Injection P	25.0	25.0	25.0	
Motor & Pump P 1601 A	18.6	18.6	18.6	
Motor & Pump P 1601 B	18.6	18.6	18.6	
Motor & Pump P 1602 A	24.0	24.0	24.0	
Motor & Pump P 1602 B	27.4	27.4	27.4	
Motor & Pump P 211/212	23.1	23.1	23.1	
Motor & Pump P 215/214	25.3	25.3	25.3	
Motor & Pump P 216	28.1	28.1	28.1	
Motor & Pump P 217/218	22.4	22.4	22.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 300	20.4	20.4	20.4	
Motor & Pump P 301	26.0	26.0	26.0	
Motor & Pump P 302	20.6	20.6	20.6	
Motor & Pump P 303	20.4	20.4	20.4	
Motor & Pump P 305	20.4	20.4	20.4	
Motor & Pump P 306	35.5	35.5	35.5	
Motor & Pump P 307	22.1	22.1	22.1	
Motor & Pump P 309	20.3	20.3	20.3	
Motor & Pump P 312	27.4	27.4	27.4	
Motor & Pump P 313	27.9	27.9	27.9	
Motor & Pump P 315	26.2	26.2	26.2	
Motor & Pump P 316	27.1	27.1	27.1	
Motor & Pump P 317	27.0	27.0	27.0	
Motor & Pump P 318	23.2	23.2	23.2	
Motor & Pump P 319	23.2	23.2	23.2	
Motor & Pump P 327	32.4	32.4	32.4	
Motor & Pump P 328	33.0	33.0	33.0	
Motor & Pump P 329	33.1	33.1	33.1	
Motor & Pump P 451	23.3	23.3	23.3	
Motor & Pump P 453	24.5	24.5	24.5	
Motor & Pump P 454	17.5	17.5	17.5	
Motor & Pump P 457	29.4	29.4	29.4	
Motor & Pump P 458	23.4	23.4	23.4	
Motor & Pump P 459	16.4	16.4	16.4	
Motor & Pump P 56A/B	23.7	23.7	23.7	
Nitrogen Skid w Compressor 18-PK 1806	31.5	31.5	31.5	
P-060 A/B	36.6	36.6	36.6	
P-1101 A	32.6	32.6	32.6	
P-1103	32.6	32.6	32.6	
P-1105 A/B/C	33.2	33.2	33.2	
P-1800	40.1	40.1	40.1	
P-1801	26.5	26.5	26.5	
P-1802	27.7	27.7	27.7	
P-1803	37.0	37.0	37.0	
P-1804	26.7	26.7	26.7	
P-1805	26.8	26.8	26.8	
P-1806	38.4	38.4	38.4	
P-1809 A	37.7	37.7	37.7	
P-1810 A/B/C	29.0	29.0	29.0	
P-1811 A/B	40.5	40.5	40.5	
P-1811 A/B	29.2	29.2	29.2	
P-1847 A/B	23.9	23.9	23.9	
P-1849 A/B	25.2	25.2	25.2	
P-1853	29.4	29.4	29.4	
P-2 A/B	35.8	35.8	35.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-251 A/B	42.2	42.2	42.2	
P-252 A/B	41.4	41.4	41.4	
P-253	35.5	35.5	35.5	
P-254 A/B	42.7	42.7	42.7	
P-255 A/B	42.9	42.9	42.9	
P-255 A/B	28.9	28.9	28.9	
P-256 A/B	42.8	42.8	42.8	
P-259 A/B	39.0	39.0	39.0	
P-260	29.5	29.5	29.5	
P-261 A/B	28.8	28.8	28.8	
P-262 A/B	29.5	29.5	29.5	
P-263 A/B	29.8	29.8	29.8	
P-270 A/B	34.8	34.8	34.8	
P-271 A/B	34.4	34.4	34.4	
P-272 A/B	40.8	40.8	40.8	
P-273 A/B	36.7	36.7	36.7	
P-275 A/B/C	35.1	35.1	35.1	
P-305	36.9	36.9	36.9	
P-306	38.4	38.4	38.4	
P-309	36.3	36.3	36.3	
P-328	37.3	37.3	37.3	
P-329	37.6	37.6	37.6	
P-353	37.8	37.8	37.8	
P-358 A/B	40.4	40.4	40.4	
P-359 A/B	38.7	38.7	38.7	
P-360 A/B	41.5	41.5	41.5	
P-361A	29.6	29.6	29.6	
P-371 A/B	27.1	27.1	27.1	
P-373 A/B	31.1	31.1	31.1	
P-374 A/B	30.7	30.7	30.7	
P-375 A/B	29.0	29.0	29.0	
P-376	29.9	29.9	29.9	
P-376 A/B	30.4	30.4	30.4	
P-377	28.6	28.6	28.6	
P-50 A/B	37.5	37.5	37.5	
P-51 A/B	37.4	37.4	37.4	
P-63	39.1	39.1	39.1	
P-70 A/B	37.2	37.2	37.2	
P-73 A/B	30.6	30.6	30.6	
Piping Furnace Tanks	12.0	12.0	12.0	
Piping Hydrogen Tanks Compressor	22.9	22.9	22.9	
Piping Hydrogen Tanks Compressor w NC	36.3	36.3	36.3	
Piping Hydrogen Tanks Compressorw NC	31.6	31.6	31.6	
Pre-Treat Train-Pre-Treat Outside Area E	31.8	31.8	31.8	
Pre-Treat Train-Pre-Treat Outside Area N	36.4	36.4	36.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Pre-Treat Train-Pre-Treat Outside Area N2	27.5	27.5	27.5	
Pre-Treat Train-Pre-Treat Outside Area S	38.6	38.6	38.6	
Pre-Treat Train-Pre-Treat Outside Area S2	36.3	36.3	36.3	
Pre-Treat Train-Pre-Treat Outside Area W1	28.2	28.2	28.2	
Pre-Treat Train-Pre-Treat Outside Area W2	37.5	37.5	37.5	
Pre-Treat Train-Pre-Treat Outside Area W3	35.7	35.7	35.7	
Pre-Treat Train-Roof 01	45.2	45.2	45.2	
PSA Pipe 3" Lagging	9.3	9.3	9.3	
PSA Skid Additional Piping w NC	38.7	38.7	38.7	
Reformer-Burner Reformer East	18.7	18.7	18.7	
Reformer-Burner Reformer North	13.9	13.9	13.9	
Reformer-Burner Reformer South	29.5	29.5	29.5	
Reformer-Burner Reformer West	31.7	31.7	31.7	
Revised Renewable Fuels Delivery for Pre	23.2	24.1	24.1	
Revised Renewable Fuels Delivery for Pre	39.4	40.4	40.4	
RFG A from battery to process	23.8	23.8	23.8	
RFG A from battery to process w NC	32.5	32.5	32.5	
Stack Noise	38.6	38.6	38.6	
Steam Turbine-Facade 01	27.2	27.2	27.2	
Steam Turbine-Facade 02	24.6	24.6	24.6	
Steam Turbine-Facade 03	25.5	25.5	25.5	
Steam Turbine-Facade 04	17.8	17.8	17.8	
Steam Turbine-Roof 01	29.5	29.5	29.5	
Tank Farm Pump 1	31.9	31.9	31.9	
Tank Farm Pump 2	24.3	24.3	24.3	
Tank Farm Pump 3	25.5	25.5	25.5	
UP Train Locomotive Delivery and Pickup 2022 2x	36.2		45.0	
XF-1502 Splitter Area 1	33.4	33.4	33.4	
XF-1502 Splitter Area 2	30.1	30.1	30.1	
XF-1504 Splitter Area 1	35.8	35.8	35.8	
XF-1504 Splitter Area 2	33.7	33.7	33.7	
XF - 1601	31.6	31.6	31.6	
XF - 1602	31.7	31.7	31.7	
XF 251, 250, 271, 270	38.4	38.4	38.4	
XF 260, 261A, 261 B	33.8	33.8	33.8	
XF 304, XF 321	38.3	38.3	38.3	
XF 313, XF 314	33.5	33.5	33.5	
XF 335-1, XF 335-2	40.4	40.4	40.4	
XF 353A/B	37.6	37.6	37.6	
XF 353A/B	36.4	36.4	36.4	
XF 354A/B	39.7	39.7	39.7	
XF 503	36.5	36.5	36.5	
XF Module 1510	33.8	33.8	33.8	
XF Module 1519	28.7	28.7	28.7	
Receiver S-6 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.2 dB(A) Ld 7-19 dB(A) Leq,N 70.9 dB(A) Le 19-2				

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
ID Fan Motor	26.5	26.5	26.5	
18-1855 A/B	48.7	48.7	48.7	
18-1856 A/B	43.8	43.8	43.8	
18-1857 A/B	48.7	48.7	48.7	
18-1858 A/B	46.4	46.4	46.4	
18-PK 1802 Air Compressor Package	45.4	45.4	45.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	57.0		59.7	
Air Compressor C 1	44.8	44.8	44.8	
Air Compressor Pump	35.1	35.1	35.1	
Blower F 401	47.7	47.7	47.7	
Boiler Crude Unit-Heater Opening	55.9	55.9	55.9	
Boiler Feed Water Pump A	30.7	30.7	30.7	
Boiler Feed Water Pump B	30.7	30.7	30.7	
C-270 A	47.2	47.2	47.2	
C-270 B	41.6	41.6	41.6	
C-270 C	41.8	41.8	41.8	
C-301 Compressor	48.1	48.1	48.1	
C-301 Motor	44.1	44.1	44.1	
C-351 Compressor	55.6	55.6	55.6	
C-351 Motor	56.2	56.2	56.2	
C370 A Motor	41.2	41.2	41.2	
C370 B Motor	46.6	46.6	46.6	
C370A	42.8	42.8	42.8	
C370B	43.5	43.5	43.5	
Cars Pumping 6 times in during delivery	53.2		62.0	
Compressor House C301, C302, C 124-Comp House East 1	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House East 2	38.0	38.0	38.0	
Compressor House C301, C302, C 124-Comp House North	29.1	29.1	29.1	
Compressor House C301, C302, C 124-Comp House South 1	43.5	43.5	43.5	
Compressor House C301, C302, C 124-Comp House South 2	41.1	41.1	41.1	
Compressor House C301, C302, C 124-Comp House West	16.4	16.4	16.4	
Construction / Renewable Fuels Truck Tr	41.3	41.3	41.3	
Cooling Tower CT 510-CT 510 East Side	38.4	38.4	38.4	
Cooling Tower CT 510-CT 510 West Side	16.4	16.4	16.4	
Cooling Tower CT 511-CT 511 East Side	43.1	43.1	43.1	
Cooling Tower CT 511-CT 511 West Side	20.0	20.0	20.0	
Cooling Tower M 512	36.8	36.8	36.8	
Cooling Tower M 513	36.9	36.9	36.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower M 514	35.7	35.7	35.7	
Crude Operatoin Truck Truck Traffic	29.7	30.6	30.6	
E 321 Fin Fan Hydrogen Plant - Low Noise	35.7	35.7	35.7	
FD Fan Assembly-FD Fan - East	36.2	36.2	36.2	
FD Fan Assembly-FD Fan - North	31.8	31.8	31.8	
FD Fan Assembly-FD Fan - Roof	34.2	34.2	34.2	
FD Fan Assembly-FD Fan - South	36.6	36.6	36.6	
FD Fan Assembly-FD Fan - West	37.3	37.3	37.3	
FD Motor	33.8	33.8	33.8	
Feed Compressor-A Compressor	43.5	43.5	43.5	
Feed Compressor-A Motor	42.9	42.9	42.9	
Feed Compressor-B Compressor	45.1	45.1	45.1	
Feed Compressor -B Motor	42.9	42.9	42.9	
H2S Compressor 18-C-271	35.0	35.0	35.0	
Heater # 5-Heater	53.3	53.3	53.3	
Heater # 5-Heater	53.8	53.8	53.8	
Heater # 5-Heater	50.9	50.9	50.9	
Hydro Heater H-402	33.1	33.1	33.1	
ID Fan-ID Fan - East (128302)	31.5	31.5	31.5	
ID Fan-ID Fan - East 1 (128306)	19.6	19.6	19.6	
ID Fan-ID Fan - North	25.6	25.6	25.6	
ID Fan-ID Fan - North 2	23.6	23.6	23.6	
ID Fan-ID Fan - South	34.5	34.5	34.5	
ID Fan-ID Fan - South 2	35.0	35.0	35.0	
ID Fan-ID Fan Roof 01 (128293)	31.1	31.1	31.1	
Motor & Pump P - 1502 Splitter Reflux Pu	23.3	23.3	23.3	
Motor & Pump P - 1503 Splitter Bottoms P	20.2	20.2	20.2	
Motor & Pump P - 1504 Splitter Bottoms P	21.7	21.7	21.7	
Motor & Pump P - 1507 Reactor Pump	23.6	23.6	23.6	
Motor & Pump P - 1508 Reactor Pump	23.7	23.7	23.7	
Motor & Pump P - 1511 Stabilizer Reflux	23.1	23.1	23.1	
Motor & Pump P - 1512 Stabilizer Reflux	23.1	23.1	23.1	
Motor & Pump P - 1513 Caustic Circulatin	21.9	21.9	21.9	
Motor & Pump P - 1514 Caustic Circulatin	22.8	22.8	22.8	
Motor & Pump P 120/121	22.3	22.3	22.3	
Motor & Pump P 1505 FRESH FEED PUMPS	21.5	21.5	21.5	
Motor & Pump P 1506 FRESH FEED PUMPS	22.1	22.1	22.1	
Motor & Pump P 1509 Chloride Injection P	32.8	32.8	32.8	
Motor & Pump P 1510 Chloride Injection P	23.4	23.4	23.4	
Motor & Pump P 1601 A	22.6	22.6	22.6	
Motor & Pump P 1601 B	29.7	29.7	29.7	
Motor & Pump P 1602 A	30.9	30.9	30.9	
Motor & Pump P 1602 B	30.1	30.1	30.1	
Motor & Pump P 211/212	28.9	28.9	28.9	
Motor & Pump P 215/214	34.1	34.1	34.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 216	32.6	32.6	32.6	
Motor & Pump P 217/218	28.6	28.6	28.6	
Motor & Pump P 300	26.0	26.0	26.0	
Motor & Pump P 301	31.6	31.6	31.6	
Motor & Pump P 302	24.9	24.9	24.9	
Motor & Pump P 303	24.5	24.5	24.5	
Motor & Pump P 305	24.0	24.0	24.0	
Motor & Pump P 306	38.5	38.5	38.5	
Motor & Pump P 307	24.0	24.0	24.0	
Motor & Pump P 309	23.2	23.2	23.2	
Motor & Pump P 312	33.8	33.8	33.8	
Motor & Pump P 313	33.8	33.8	33.8	
Motor & Pump P 315	39.2	39.2	39.2	
Motor & Pump P 316	40.1	40.1	40.1	
Motor & Pump P 317	40.6	40.6	40.6	
Motor & Pump P 318	33.4	33.4	33.4	
Motor & Pump P 319	30.8	30.8	30.8	
Motor & Pump P 327	34.8	34.8	34.8	
Motor & Pump P 328	35.9	35.9	35.9	
Motor & Pump P 329	35.6	35.6	35.6	
Motor & Pump P 451	29.4	29.4	29.4	
Motor & Pump P 453	35.9	35.9	35.9	
Motor & Pump P 454	30.5	30.5	30.5	
Motor & Pump P 457	35.1	35.1	35.1	
Motor & Pump P 458	30.2	30.2	30.2	
Motor & Pump P 459	29.4	29.4	29.4	
Motor & Pump P 56A/B	27.5	27.5	27.5	
Nitrogen Skid w Compressor 18-PK 1806	36.2	36.2	36.2	
P-060 A/B	29.9	29.9	29.9	
P-1101 A	47.5	47.5	47.5	
P-1103	47.5	47.5	47.5	
P-1105 A/B/C	47.2	47.2	47.2	
P-1800	36.3	36.3	36.3	
P-1801	35.7	35.7	35.7	
P-1802	35.7	35.7	35.7	
P-1803	36.2	36.2	36.2	
P-1804	29.6	29.6	29.6	
P-1805	34.3	34.3	34.3	
P-1806	49.6	49.6	49.6	
P-1809 A	37.2	37.2	37.2	
P-1810 A/B/C	33.7	33.7	33.7	
P-1811 A/B	48.3	48.3	48.3	
P-1811 A/B	35.9	35.9	35.9	
P-1847 A/B	42.7	42.7	42.7	
P-1849 A/B	41.4	41.4	41.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1853	59.5	59.5	59.5	
P-2 A/B	48.6	48.6	48.6	
P-251 A/B	47.8	47.8	47.8	
P-252 A/B	46.9	46.9	46.9	
P-253	47.1	47.1	47.1	
P-254 A/B	48.2	48.2	48.2	
P-255 A/B	48.1	48.1	48.1	
P-255 A/B	52.2	52.2	52.2	
P-256 A/B	47.9	47.9	47.9	
P-259 A/B	47.7	47.7	47.7	
P-260	51.7	51.7	51.7	
P-261 A/B	49.8	49.8	49.8	
P-262 A/B	51.6	51.6	51.6	
P-263 A/B	51.9	51.9	51.9	
P-270 A/B	33.3	33.3	33.3	
P-271 A/B	53.2	53.2	53.2	
P-272 A/B	48.4	48.4	48.4	
P-273 A/B	34.3	34.3	34.3	
P-275 A/B/C	47.4	47.4	47.4	
P-305	59.3	59.3	59.3	
P-306	59.6	59.6	59.6	
P-309	59.2	59.2	59.2	
P-328	58.5	58.5	58.5	
P-329	59.1	59.1	59.1	
P-353	56.2	56.2	56.2	
P-358 A/B	53.6	53.6	53.6	
P-359 A/B	54.9	54.9	54.9	
P-360 A/B	56.7	56.7	56.7	
P-361A	42.3	42.3	42.3	
P-371 A/B	36.6	36.6	36.6	
P-373 A/B	38.6	38.6	38.6	
P-374 A/B	37.5	37.5	37.5	
P-375 A/B	35.2	35.2	35.2	
P-376	36.9	36.9	36.9	
P-376 A/B	40.0	40.0	40.0	
P-377	36.1	36.1	36.1	
P-50 A/B	34.6	34.6	34.6	
P-51 A/B	49.0	49.0	49.0	
P-63	50.6	50.6	50.6	
P-70 A/B	28.6	28.6	28.6	
P-73 A/B	48.4	48.4	48.4	
Piping Furnace Tanks	26.3	26.3	26.3	
Piping Hydrogen Tanks Compressor	37.6	37.6	37.6	
Piping Hydrogen Tanks Compressor w NC	44.9	44.9	44.9	
Piping Hydrogen Tanks Compressorw NC	40.3	40.3	40.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Pre-Treat Train-Pre-Treat Outside Area E	32.1	32.1	32.1	
Pre-Treat Train-Pre-Treat Outside Area N	34.8	34.8	34.8	
Pre-Treat Train-Pre-Treat Outside Area N2	27.8	27.8	27.8	
Pre-Treat Train-Pre-Treat Outside Area S	47.2	47.2	47.2	
Pre-Treat Train-Pre-Treat Outside Area S2	46.1	46.1	46.1	
Pre-Treat Train-Pre-Treat Outside Area W1	28.3	28.3	28.3	
Pre-Treat Train-Pre-Treat Outside Area W2	46.5	46.5	46.5	
Pre-Treat Train-Pre-Treat Outside Area W3	40.6	40.6	40.6	
Pre-Treat Train-Roof 01	49.3	49.3	49.3	
PSA Pipe 3" Lagging	15.3	15.3	15.3	
PSA Skid Additional Piping w NC	47.1	47.1	47.1	
Reformer-Burner Reformer East	24.0	24.0	24.0	
Reformer-Burner Reformer North	28.2	28.2	28.2	
Reformer-Burner Reformer South	40.7	40.7	40.7	
Reformer-Burner Reformer West	43.4	43.4	43.4	
Revised Renewable Fuels Delivery for Pre	22.8	23.8	23.8	
Revised Renewable Fuels Delivery for Pre	40.2	41.1	41.1	
RFG A from battery to process	38.9	38.9	38.9	
RFG A from battery to process w NC	41.8	41.8	41.8	
Stack Noise	41.9	41.9	41.9	
Steam Turbine-Facade 01	33.8	33.8	33.8	
Steam Turbine-Facade 02	34.5	34.5	34.5	
Steam Turbine-Facade 03	32.5	32.5	32.5	
Steam Turbine-Facade 04	21.4	21.4	21.4	
Steam Turbine-Roof 01	38.7	38.7	38.7	
Tank Farm Pump 1	42.2	42.2	42.2	
Tank Farm Pump 2	41.4	41.4	41.4	
Tank Farm Pump 3	40.2	40.2	40.2	
UP Train Locomotive Delivery and Pickup 2022 2x	41.9		50.7	
XF-1502 Splitter Area 1	37.2	37.2	37.2	
XF-1502 Splitter Area 2	38.0	38.0	38.0	
XF-1504 Splitter Area 1	38.4	38.4	38.4	
XF-1504 Splitter Area 2	39.1	39.1	39.1	
XF - 1601	37.0	37.0	37.0	
XF - 1602	37.1	37.1	37.1	
XF 251, 250, 271, 270	50.1	50.1	50.1	
XF 260, 261A, 261 B	48.0	48.0	48.0	
XF 304, XF 321	42.2	42.2	42.2	
XF 313, XF 314	42.5	42.5	42.5	
XF 335-1, XF 335-2	45.6	45.6	45.6	
XF 353A/B	45.3	45.3	45.3	
XF 353A/B	44.2	44.2	44.2	
XF 354A/B	51.8	51.8	51.8	
XF 503	47.3	47.3	47.3	
XF Module 1510	41.4	41.4	41.4	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF Module 1519	39.1	39.1	39.1	
Receiver S-7 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 73.3 dB(A)		Ld 7-19 dB(A)	Leq,N 71.4 dB(A) Le 19-2
ID Fan Motor	35.2	35.2	35.2	
18-1855 A/B	51.3	51.3	51.3	
18-1856 A/B	50.9	50.9	50.9	
18-1857 A/B	51.6	51.6	51.6	
18-1858 A/B	51.3	51.3	51.3	
18-PK 1802 Air Compressor Package	56.2	56.2	56.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	67.7		70.4	
Air Compressor C 1	43.9	43.9	43.9	
Air Compressor Pump	39.7	39.7	39.7	
Blower F 401	50.5	50.5	50.5	
Boiler Crude Unit-Heater Opening	42.2	42.2	42.2	
Boiler Feed Water Pump A	41.3	41.3	41.3	
Boiler Feed Water Pump B	44.3	44.3	44.3	
C-270 A	52.0	52.0	52.0	
C-270 B	52.4	52.4	52.4	
C-270 C	52.9	52.9	52.9	
C-301 Compressor	50.8	50.8	50.8	
C-301 Motor	54.8	54.8	54.8	
C-351 Compressor	55.4	55.4	55.4	
C-351 Motor	51.5	51.5	51.5	
C370 A Motor	46.0	46.0	46.0	
C370 B Motor	51.0	51.0	51.0	
C370A	46.6	46.6	46.6	
C370B	46.8	46.8	46.8	
Cars Pumping 6 times in during delivery	62.1		70.8	
Compressor House C301, C302, C 124-Comp House East 1	42.9	42.9	42.9	
Compressor House C301, C302, C 124-Comp House East 2	41.0	41.0	41.0	
Compressor House C301, C302, C 124-Comp House North	29.7	29.7	29.7	
Compressor House C301, C302, C 124-Comp House South 1	45.5	45.5	45.5	
Compressor House C301, C302, C 124-Comp House South 2	41.9	41.9	41.9	
Compressor House C301, C302, C 124-Comp House West	25.4	25.4	25.4	
Construction / Renewable Fuels Truck Tr	44.8	44.8	44.8	
Cooling Tower CT 510-CT 510 East Side	44.6	44.6	44.6	
Cooling Tower CT 510-CT 510 West Side	18.5	18.5	18.5	
Cooling Tower CT 511-CT 511 East Side	46.3	46.3	46.3	
Cooling Tower CT 511-CT 511 West Side	25.6	25.6	25.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower M 512	32.9	32.9	32.9	
Cooling Tower M 513	31.6	31.6	31.6	
Cooling Tower M 514	37.9	37.9	37.9	
Crude Operatoin Truck Truck Traffic	29.1	30.0	30.0	
E 321 Fin Fan Hydrogen Plant - Low Noise	41.3	41.3	41.3	
FD Fan Assembly-FD Fan - East	38.5	38.5	38.5	
FD Fan Assembly-FD Fan - North	33.7	33.7	33.7	
FD Fan Assembly-FD Fan - Roof	35.9	35.9	35.9	
FD Fan Assembly-FD Fan - South	39.4	39.4	39.4	
FD Fan Assembly-FD Fan - West	41.6	41.6	41.6	
FD Motor	49.0	49.0	49.0	
Feed Compressor-A Compressor	42.2	42.2	42.2	
Feed Compressor-A Motor	41.9	41.9	41.9	
Feed Compressor-B Compressor	47.9	47.9	47.9	
Feed Compressor -B Motor	46.9	46.9	46.9	
H2S Compressor 18-C-271	38.5	38.5	38.5	
Heater # 5-Heater	26.9	26.9	26.9	
Heater # 5-Heater	28.4	28.4	28.4	
Heater # 5-Heater	26.0	26.0	26.0	
Hydro Heater H-402	40.9	40.9	40.9	
ID Fan-ID Fan - East (128302)	32.0	32.0	32.0	
ID Fan-ID Fan - East 1 (128306)	27.1	27.1	27.1	
ID Fan-ID Fan - North	31.9	31.9	31.9	
ID Fan-ID Fan - North 2	31.6	31.6	31.6	
ID Fan-ID Fan - South	37.2	37.2	37.2	
ID Fan-ID Fan - South 2	36.2	36.2	36.2	
ID Fan-ID Fan Roof 01 (128293)	37.5	37.5	37.5	
Motor & Pump P - 1502 Splitter Reflux Pu	29.2	29.2	29.2	
Motor & Pump P - 1503 Splitter Bottoms P	31.5	31.5	31.5	
Motor & Pump P - 1504 Splitter Bottoms P	26.6	26.6	26.6	
Motor & Pump P - 1507 Reactor Pump	28.4	28.4	28.4	
Motor & Pump P - 1508 Reactor Pump	29.4	29.4	29.4	
Motor & Pump P - 1511 Stabilizer Reflux	24.5	24.5	24.5	
Motor & Pump P - 1512 Stabilizer Reflux	24.4	24.4	24.4	
Motor & Pump P - 1513 Caustic Circulatin	25.9	25.9	25.9	
Motor & Pump P - 1514 Caustic Circulatin	24.9	24.9	24.9	
Motor & Pump P 120/121	26.1	26.1	26.1	
Motor & Pump P 1505 FRESH FEED PUMPS	25.7	25.7	25.7	
Motor & Pump P 1506 FRESH FEED PUMPS	22.6	22.6	22.6	
Motor & Pump P 1509 Chloride Injection P	26.2	26.2	26.2	
Motor & Pump P 1510 Chloride Injection P	26.6	26.6	26.6	
Motor & Pump P 1601 A	30.7	30.7	30.7	
Motor & Pump P 1601 B	26.6	26.6	26.6	
Motor & Pump P 1602 A	22.4	22.4	22.4	
Motor & Pump P 1602 B	22.9	22.9	22.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 211/212	32.8	32.8	32.8	
Motor & Pump P 215/214	34.2	34.2	34.2	
Motor & Pump P 216	37.0	37.0	37.0	
Motor & Pump P 217/218	31.9	31.9	31.9	
Motor & Pump P 300	23.1	23.1	23.1	
Motor & Pump P 301	27.8	27.8	27.8	
Motor & Pump P 302	23.4	23.4	23.4	
Motor & Pump P 303	23.7	23.7	23.7	
Motor & Pump P 305	24.4	24.4	24.4	
Motor & Pump P 306	38.7	38.7	38.7	
Motor & Pump P 307	29.1	29.1	29.1	
Motor & Pump P 309	24.5	24.5	24.5	
Motor & Pump P 312	40.9	40.9	40.9	
Motor & Pump P 313	39.2	39.2	39.2	
Motor & Pump P 315	44.0	44.0	44.0	
Motor & Pump P 316	44.6	44.6	44.6	
Motor & Pump P 317	43.4	43.4	43.4	
Motor & Pump P 318	38.2	38.2	38.2	
Motor & Pump P 319	36.9	36.9	36.9	
Motor & Pump P 327	36.4	36.4	36.4	
Motor & Pump P 328	36.9	36.9	36.9	
Motor & Pump P 329	36.2	36.2	36.2	
Motor & Pump P 451	37.0	37.0	37.0	
Motor & Pump P 453	36.6	36.6	36.6	
Motor & Pump P 454	36.8	36.8	36.8	
Motor & Pump P 457	37.4	37.4	37.4	
Motor & Pump P 458	37.5	37.5	37.5	
Motor & Pump P 459	37.1	37.1	37.1	
Motor & Pump P 56A/B	28.3	28.3	28.3	
Nitrogen Skid w Compressor 18-PK 1806	40.1	40.1	40.1	
P-060 A/B	24.3	24.3	24.3	
P-1101 A	39.4	39.4	39.4	
P-1103	39.3	39.3	39.3	
P-1105 A/B/C	39.1	39.1	39.1	
P-1800	38.1	38.1	38.1	
P-1801	36.7	36.7	36.7	
P-1802	36.8	36.8	36.8	
P-1803	41.4	41.4	41.4	
P-1804	39.9	39.9	39.9	
P-1805	39.8	39.8	39.8	
P-1806	43.6	43.6	43.6	
P-1809 A	37.4	37.4	37.4	
P-1810 A/B/C	39.2	39.2	39.2	
P-1811 A/B	42.6	42.6	42.6	
P-1811 A/B	39.6	39.6	39.6	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1847 A/B	42.6	42.6	42.6	
P-1849 A/B	42.5	42.5	42.5	
P-1853	55.7	55.7	55.7	
P-2 A/B	38.3	38.3	38.3	
P-251 A/B	56.5	56.5	56.5	
P-252 A/B	55.2	55.2	55.2	
P-253	54.3	54.3	54.3	
P-254 A/B	55.0	55.0	55.0	
P-255 A/B	55.4	55.4	55.4	
P-255 A/B	57.5	57.5	57.5	
P-256 A/B	56.0	56.0	56.0	
P-259 A/B	56.9	56.9	56.9	
P-260	57.9	57.9	57.9	
P-261 A/B	58.5	58.5	58.5	
P-262 A/B	59.1	59.1	59.1	
P-263 A/B	58.5	58.5	58.5	
P-270 A/B	51.8	51.8	51.8	
P-271 A/B	53.7	53.7	53.7	
P-272 A/B	54.3	54.3	54.3	
P-273 A/B	51.4	51.4	51.4	
P-275 A/B/C	53.1	53.1	53.1	
P-305	39.0	39.0	39.0	
P-306	52.0	52.0	52.0	
P-309	39.0	39.0	39.0	
P-328	51.5	51.5	51.5	
P-329	51.7	51.7	51.7	
P-353	49.8	49.8	49.8	
P-358 A/B	37.2	37.2	37.2	
P-359 A/B	49.4	49.4	49.4	
P-360 A/B	49.9	49.9	49.9	
P-361A	44.1	44.1	44.1	
P-371 A/B	40.2	40.2	40.2	
P-373 A/B	39.8	39.8	39.8	
P-374 A/B	40.2	40.2	40.2	
P-375 A/B	39.9	39.9	39.9	
P-376	40.2	40.2	40.2	
P-376 A/B	39.1	39.1	39.1	
P-377	39.9	39.9	39.9	
P-50 A/B	24.8	24.8	24.8	
P-51 A/B	35.1	35.1	35.1	
P-63	46.0	46.0	46.0	
P-70 A/B	23.8	23.8	23.8	
P-73 A/B	38.8	38.8	38.8	
Piping Furnace Tanks	28.7	28.7	28.7	
Piping Hydrogen Tanks Compressor	39.3	39.3	39.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Piping Hydrogen Tanks Compressor w NC	44.9	44.9	44.9	
Piping Hydrogen Tanks Compressorw NC	40.3	40.3	40.3	
Pre-Treat Train-Pre-Treat Outside Area E	30.6	30.6	30.6	
Pre-Treat Train-Pre-Treat Outside Area N	43.7	43.7	43.7	
Pre-Treat Train-Pre-Treat Outside Area N2	35.6	35.6	35.6	
Pre-Treat Train-Pre-Treat Outside Area S	44.9	44.9	44.9	
Pre-Treat Train-Pre-Treat Outside Area S2	46.7	46.7	46.7	
Pre-Treat Train-Pre-Treat Outside Area W1	37.8	37.8	37.8	
Pre-Treat Train-Pre-Treat Outside Area W2	48.9	48.9	48.9	
Pre-Treat Train-Pre-Treat Outside Area W3	43.6	43.6	43.6	
Pre-Treat Train-Roof 01	50.1	50.1	50.1	
PSA Pipe 3" Lagging	10.7	10.7	10.7	
PSA Skid Additional Piping w NC	46.2	46.2	46.2	
Reformer-Burner Reformer East	25.6	25.6	25.6	
Reformer-Burner Reformer North	39.5	39.5	39.5	
Reformer-Burner Reformer South	35.5	35.5	35.5	
Reformer-Burner Reformer West	45.2	45.2	45.2	
Revised Renewable Fuels Delivery for Pre	28.8	29.8	29.8	
Revised Renewable Fuels Delivery for Pre	32.8	33.8	33.8	
RFG A from battery to process	41.8	41.8	41.8	
RFG A from battery to process w NC	41.3	41.3	41.3	
Stack Noise	44.9	44.9	44.9	
Steam Turbine-Facade 01	38.3	38.3	38.3	
Steam Turbine-Facade 02	33.9	33.9	33.9	
Steam Turbine-Facade 03	33.4	33.4	33.4	
Steam Turbine-Facade 04	31.5	31.5	31.5	
Steam Turbine-Roof 01	41.5	41.5	41.5	
Tank Farm Pump 1	41.1	41.1	41.1	
Tank Farm Pump 2	39.8	39.8	39.8	
Tank Farm Pump 3	39.7	39.7	39.7	
UP Train Locomotive Delivery and Pickup 2022 2x	52.1		60.8	
XF-1502 Splitter Area 1	40.9	40.9	40.9	
XF-1502 Splitter Area 2	44.0	44.0	44.0	
XF-1504 Splitter Area 1	41.1	41.1	41.1	
XF-1504 Splitter Area 2	41.3	41.3	41.3	
XF - 1601	39.4	39.4	39.4	
XF - 1602	39.9	39.9	39.9	
XF 251, 250, 271, 270	52.3	52.3	52.3	
XF 260, 261A, 261 B	58.3	58.3	58.3	
XF 304, XF 321	44.6	44.6	44.6	
XF 313, XF 314	40.5	40.5	40.5	
XF 335-1, XF 335-2	44.4	44.4	44.4	
XF 353A/B	40.3	40.3	40.3	
XF 353A/B	41.0	41.0	41.0	
XF 354A/B	43.0	43.0	43.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 503	49.0	49.0	49.0	
XF Module 1510	46.8	46.8	46.8	
XF Module 1519	46.6	46.6	46.6	
Receiver S-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 74.2 dB(A)	Ld 7-19 dB(A)	Leq,N 69.6 dB(A)	Le 19-2
ID Fan Motor	32.9	32.9	32.9	
18-1855 A/B	41.9	41.9	41.9	
18-1856 A/B	43.9	43.9	43.9	
18-1857 A/B	41.4	41.4	41.4	
18-1858 A/B	40.3	40.3	40.3	
18-PK 1802 Air Compressor Package	53.4	53.4	53.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	71.7		74.4	
Air Compressor C 1	50.9	50.9	50.9	
Air Compressor Pump	52.9	52.9	52.9	
Blower F 401	55.3	55.3	55.3	
Boiler Crude Unit-Heater Opening	32.9	32.9	32.9	
Boiler Feed Water Pump A	39.5	39.5	39.5	
Boiler Feed Water Pump B	39.3	39.3	39.3	
C-270 A	51.8	51.8	51.8	
C-270 B	51.2	51.2	51.2	
C-270 C	49.7	49.7	49.7	
C-301 Compressor	50.9	50.9	50.9	
C-301 Motor	50.9	50.9	50.9	
C-351 Compressor	50.7	50.7	50.7	
C-351 Motor	48.5	48.5	48.5	
C370 A Motor	49.2	49.2	49.2	
C370 B Motor	53.1	53.1	53.1	
C370A	52.5	52.5	52.5	
C370B	50.8	50.8	50.8	
Cars Pumping 6 times in during delivery	62.0		70.7	
Compressor House C301, C302, C 124-Comp House East 1	46.1	46.1	46.1	
Compressor House C301, C302, C 124-Comp House East 2	44.8	44.8	44.8	
Compressor House C301, C302, C 124-Comp House North	37.5	37.5	37.5	
Compressor House C301, C302, C 124-Comp House South 1	48.7	48.7	48.7	
Compressor House C301, C302, C 124-Comp House South 2	44.4	44.4	44.4	
Compressor House C301, C302, C 124-Comp House West	29.2	29.2	29.2	
Construction / Renewable Fuels Truck Tr	46.9	46.9	46.9	
Cooling Tower CT 510-CT 510 East Side	40.5	40.5	40.5	
Cooling Tower CT 510-CT 510 West Side	27.8	27.8	27.8	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower CT 511-CT 511 East Side	41.6	41.6	41.6	
Cooling Tower CT 511-CT 511 West Side	37.8	37.8	37.8	
Cooling Tower M 512	29.8	29.8	29.8	
Cooling Tower M 513	29.1	29.1	29.1	
Cooling Tower M 514	29.6	29.6	29.6	
Crude Operatoin Truck Truck Traffic	30.3	31.2	31.2	
E 321 Fin Fan Hydrogen Plant - Low Noise	39.0	39.0	39.0	
FD Fan Assembly-FD Fan - East	27.2	27.2	27.2	
FD Fan Assembly-FD Fan - North	26.8	26.8	26.8	
FD Fan Assembly-FD Fan - Roof	24.5	24.5	24.5	
FD Fan Assembly-FD Fan - South	27.6	27.6	27.6	
FD Fan Assembly-FD Fan - West	29.6	29.6	29.6	
FD Motor	28.9	28.9	28.9	
Feed Compressor-A Compressor	49.2	49.2	49.2	
Feed Compressor-A Motor	47.4	47.4	47.4	
Feed Compressor-B Compressor	48.8	48.8	48.8	
Feed Compressor -B Motor	47.2	47.2	47.2	
H2S Compressor 18-C-271	49.5	49.5	49.5	
Heater # 5-Heater	29.9	29.9	29.9	
Heater # 5-Heater	30.0	30.0	30.0	
Heater # 5-Heater	29.4	29.4	29.4	
Hydro Heater H-402	45.8	45.8	45.8	
ID Fan-ID Fan - East (128302)	24.3	24.3	24.3	
ID Fan-ID Fan - East 1 (128306)	21.7	21.7	21.7	
ID Fan-ID Fan - North	26.6	26.6	26.6	
ID Fan-ID Fan - North 2	28.0	28.0	28.0	
ID Fan-ID Fan - South	36.7	36.7	36.7	
ID Fan-ID Fan - South 2	33.9	33.9	33.9	
ID Fan-ID Fan Roof 01 (128293)	34.7	34.7	34.7	
Motor & Pump P - 1502 Splitter Reflux Pu	27.7	27.7	27.7	
Motor & Pump P - 1503 Splitter Bottoms P	27.8	27.8	27.8	
Motor & Pump P - 1504 Splitter Bottoms P	27.9	27.9	27.9	
Motor & Pump P - 1507 Reactor Pump	31.7	31.7	31.7	
Motor & Pump P - 1508 Reactor Pump	32.6	32.6	32.6	
Motor & Pump P - 1511 Stabilizer Reflux	31.1	31.1	31.1	
Motor & Pump P - 1512 Stabilizer Reflux	28.1	28.1	28.1	
Motor & Pump P - 1513 Caustic Circulatin	26.9	26.9	26.9	
Motor & Pump P - 1514 Caustic Circulatin	27.9	27.9	27.9	
Motor & Pump P 120/121	29.2	29.2	29.2	
Motor & Pump P 1505 FRESH FEED PUMPS	30.4	30.4	30.4	
Motor & Pump P 1506 FRESH FEED PUMPS	29.9	29.9	29.9	
Motor & Pump P 1509 Chloride Injection P	28.4	28.4	28.4	
Motor & Pump P 1510 Chloride Injection P	31.7	31.7	31.7	
Motor & Pump P 1601 A	26.5	26.5	26.5	
Motor & Pump P 1601 B	25.7	25.7	25.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1602 A	25.6	25.6	25.6	
Motor & Pump P 1602 B	25.8	25.8	25.8	
Motor & Pump P 211/212	38.3	38.3	38.3	
Motor & Pump P 215/214	37.1	37.1	37.1	
Motor & Pump P 216	40.4	40.4	40.4	
Motor & Pump P 217/218	37.7	37.7	37.7	
Motor & Pump P 300	34.4	34.4	34.4	
Motor & Pump P 301	39.8	39.8	39.8	
Motor & Pump P 302	34.4	34.4	34.4	
Motor & Pump P 303	34.3	34.3	34.3	
Motor & Pump P 305	34.5	34.5	34.5	
Motor & Pump P 306	46.4	46.4	46.4	
Motor & Pump P 307	39.4	39.4	39.4	
Motor & Pump P 309	34.3	34.3	34.3	
Motor & Pump P 312	44.2	44.2	44.2	
Motor & Pump P 313	46.1	46.1	46.1	
Motor & Pump P 315	49.1	49.1	49.1	
Motor & Pump P 316	49.1	49.1	49.1	
Motor & Pump P 317	49.0	49.0	49.0	
Motor & Pump P 318	49.5	49.5	49.5	
Motor & Pump P 319	49.5	49.5	49.5	
Motor & Pump P 327	38.9	38.9	38.9	
Motor & Pump P 328	45.6	45.6	45.6	
Motor & Pump P 329	45.7	45.7	45.7	
Motor & Pump P 451	35.5	35.5	35.5	
Motor & Pump P 453	39.7	39.7	39.7	
Motor & Pump P 454	34.6	34.6	34.6	
Motor & Pump P 457	40.4	40.4	40.4	
Motor & Pump P 458	37.8	37.8	37.8	
Motor & Pump P 459	35.0	35.0	35.0	
Motor & Pump P 56A/B	37.5	37.5	37.5	
Nitrogen Skid w Compressor 18-PK 1806	39.3	39.3	39.3	
P-060 A/B	29.4	29.4	29.4	
P-1101 A	36.4	36.4	36.4	
P-1103	36.4	36.4	36.4	
P-1105 A/B/C	36.4	36.4	36.4	
P-1800	33.4	33.4	33.4	
P-1801	31.5	31.5	31.5	
P-1802	32.6	32.6	32.6	
P-1803	40.3	40.3	40.3	
P-1804	36.6	36.6	36.6	
P-1805	36.6	36.6	36.6	
P-1806	41.0	41.0	41.0	
P-1809 A	34.5	34.5	34.5	
P-1810 A/B/C	38.3	38.3	38.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1811 A/B	41.9	41.9	41.9	
P-1811 A/B	36.7	36.7	36.7	
P-1847 A/B	38.9	38.9	38.9	
P-1849 A/B	39.8	39.8	39.8	
P-1853	49.4	49.4	49.4	
P-2 A/B	32.1	32.1	32.1	
P-251 A/B	49.2	49.2	49.2	
P-252 A/B	49.0	49.0	49.0	
P-253	48.3	48.3	48.3	
P-254 A/B	48.3	48.3	48.3	
P-255 A/B	48.6	48.6	48.6	
P-255 A/B	49.9	49.9	49.9	
P-256 A/B	48.9	48.9	48.9	
P-259 A/B	49.6	49.6	49.6	
P-260	51.7	51.7	51.7	
P-261 A/B	53.0	53.0	53.0	
P-262 A/B	52.6	52.6	52.6	
P-263 A/B	52.4	52.4	52.4	
P-270 A/B	43.8	43.8	43.8	
P-271 A/B	47.5	47.5	47.5	
P-272 A/B	47.9	47.9	47.9	
P-273 A/B	43.9	43.9	43.9	
P-275 A/B/C	47.4	47.4	47.4	
P-305	46.5	46.5	46.5	
P-306	47.3	47.3	47.3	
P-309	46.3	46.3	46.3	
P-328	47.0	47.0	47.0	
P-329	47.2	47.2	47.2	
P-353	42.1	42.1	42.1	
P-358 A/B	39.6	39.6	39.6	
P-359 A/B	38.8	38.8	38.8	
P-360 A/B	38.9	38.9	38.9	
P-361A	37.4	37.4	37.4	
P-371 A/B	52.7	52.7	52.7	
P-373 A/B	52.2	52.2	52.2	
P-374 A/B	52.3	52.3	52.3	
P-375 A/B	52.4	52.4	52.4	
P-376	52.4	52.4	52.4	
P-376 A/B	53.0	53.0	53.0	
P-377	52.4	52.4	52.4	
P-50 A/B	20.7	20.7	20.7	
P-51 A/B	24.1	24.1	24.1	
P-63	36.6	36.6	36.6	
P-70 A/B	19.8	19.8	19.8	
P-73 A/B	33.1	33.1	33.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Piping Furnace Tanks	30.7	30.7	30.7	
Piping Hydrogen Tanks Compressor	43.7	43.7	43.7	
Piping Hydrogen Tanks Compressor w NC	50.5	50.5	50.5	
Piping Hydrogen Tanks Compressorw NC	45.9	45.9	45.9	
Pre-Treat Train-Pre-Treat Outside Area E	32.2	32.2	32.2	
Pre-Treat Train-Pre-Treat Outside Area N	38.9	38.9	38.9	
Pre-Treat Train-Pre-Treat Outside Area N2	39.0	39.0	39.0	
Pre-Treat Train-Pre-Treat Outside Area S	51.9	51.9	51.9	
Pre-Treat Train-Pre-Treat Outside Area S2	48.7	48.7	48.7	
Pre-Treat Train-Pre-Treat Outside Area W1	39.4	39.4	39.4	
Pre-Treat Train-Pre-Treat Outside Area W2	49.1	49.1	49.1	
Pre-Treat Train-Pre-Treat Outside Area W3	45.0	45.0	45.0	
Pre-Treat Train-Roof 01	49.9	49.9	49.9	
PSA Pipe 3" Lagging	24.7	24.7	24.7	
PSA Skid Additional Piping w NC	51.8	51.8	51.8	
Reformer-Burner Reformer East	29.7	29.7	29.7	
Reformer-Burner Reformer North	43.0	43.0	43.0	
Reformer-Burner Reformer South	26.6	26.6	26.6	
Reformer-Burner Reformer West	45.5	45.5	45.5	
Revised Renewable Fuels Delivery for Pre	27.6	28.6	28.6	
Revised Renewable Fuels Delivery for Pre	29.3	30.2	30.2	
RFG A from battery to process	43.3	43.3	43.3	
RFG A from battery to process w NC	47.2	47.2	47.2	
Stack Noise	44.8	44.8	44.8	
Steam Turbine-Facade 01	48.9	48.9	48.9	
Steam Turbine-Facade 02	34.4	34.4	34.4	
Steam Turbine-Facade 03	46.3	46.3	46.3	
Steam Turbine-Facade 04	48.1	48.1	48.1	
Steam Turbine-Roof 01	46.9	46.9	46.9	
Tank Farm Pump 1	38.3	38.3	38.3	
Tank Farm Pump 2	37.9	37.9	37.9	
Tank Farm Pump 3	37.8	37.8	37.8	
UP Train Locomotive Delivery and Pickup 2022 2x	58.0		66.8	
XF-1502 Splitter Area 1	37.1	37.1	37.1	
XF-1502 Splitter Area 2	40.3	40.3	40.3	
XF-1504 Splitter Area 1	39.0	39.0	39.0	
XF-1504 Splitter Area 2	39.4	39.4	39.4	
XF - 1601	39.5	39.5	39.5	
XF - 1602	40.3	40.3	40.3	
XF 251, 250, 271, 270	45.6	45.6	45.6	
XF 260, 261A, 261 B	49.4	49.4	49.4	
XF 304, XF 321	50.5	50.5	50.5	
XF 313, XF 314	45.8	45.8	45.8	
XF 335-1, XF 335-2	50.2	50.2	50.2	
XF 353A/B	34.0	34.0	34.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 353A/B	35.6	35.6	35.6	
XF 354A/B	37.6	37.6	37.6	
XF 503	56.1	56.1	56.1	
XF Module 1510	39.9	39.9	39.9	
XF Module 1519	44.9	44.9	44.9	
Receiver S-9 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 76.3 dB(A)		Ld 7-19 dB(A)	Leq,N 75.8 dB(A) Le 19-2
ID Fan Motor	25.9	25.9	25.9	
18-1855 A/B	41.8	41.8	41.8	
18-1856 A/B	41.7	41.7	41.7	
18-1857 A/B	42.0	42.0	42.0	
18-1858 A/B	41.2	41.2	41.2	
18-PK 1802 Air Compressor Package	40.3	40.3	40.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	64.1		66.9	
Air Compressor C 1	47.8	47.8	47.8	
Air Compressor Pump	41.7	41.7	41.7	
Blower F 401	73.0	73.0	73.0	
Boiler Crude Unit-Heater Opening	34.9	34.9	34.9	
Boiler Feed Water Pump A	33.4	33.4	33.4	
Boiler Feed Water Pump B	34.1	34.1	34.1	
C-270 A	49.0	49.0	49.0	
C-270 B	48.7	48.7	48.7	
C-270 C	47.3	47.3	47.3	
C-301 Compressor	44.8	44.8	44.8	
C-301 Motor	43.6	43.6	43.6	
C-351 Compressor	47.7	47.7	47.7	
C-351 Motor	46.3	46.3	46.3	
C370 A Motor	39.1	39.1	39.1	
C370 B Motor	46.4	46.4	46.4	
C370A	43.0	43.0	43.0	
C370B	37.6	37.6	37.6	
Cars Pumping 6 times in during delivery	61.8		70.6	
Compressor House C301, C302, C 124-Comp House East 1	58.5	58.5	58.5	
Compressor House C301, C302, C 124-Comp House East 2	56.9	56.9	56.9	
Compressor House C301, C302, C 124-Comp House North	40.3	40.3	40.3	
Compressor House C301, C302, C 124-Comp House South 1	60.2	60.2	60.2	
Compressor House C301, C302, C 124-Comp House South 2	52.1	52.1	52.1	
Compressor House C301, C302, C 124-Comp House West	41.1	41.1	41.1	
Construction / Renewable Fuels Truck Tr	38.3	38.3	38.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Cooling Tower CT 510-CT 510 East Side	46.0	46.0	46.0	
Cooling Tower CT 510-CT 510 West Side	48.1	48.1	48.1	
Cooling Tower CT 511-CT 511 East Side	27.7	27.7	27.7	
Cooling Tower CT 511-CT 511 West Side	53.5	53.5	53.5	
Cooling Tower M 512	47.5	47.5	47.5	
Cooling Tower M 513	47.7	47.7	47.7	
Cooling Tower M 514	49.8	49.8	49.8	
Crude Operatoin Truck Truck Traffic	27.4	28.4	28.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	30.8	30.8	30.8	
FD Fan Assembly-FD Fan - East	26.4	26.4	26.4	
FD Fan Assembly-FD Fan - North	25.6	25.6	25.6	
FD Fan Assembly-FD Fan - Roof	23.8	23.8	23.8	
FD Fan Assembly-FD Fan - South	27.2	27.2	27.2	
FD Fan Assembly-FD Fan - West	28.2	28.2	28.2	
FD Motor	25.2	25.2	25.2	
Feed Compressor-A Compressor	35.2	35.2	35.2	
Feed Compressor-A Motor	38.3	38.3	38.3	
Feed Compressor-B Compressor	38.2	38.2	38.2	
Feed Compressor -B Motor	37.6	37.6	37.6	
H2S Compressor 18-C-271	51.3	51.3	51.3	
Heater # 5-Heater	19.2	19.2	19.2	
Heater # 5-Heater	20.1	20.1	20.1	
Heater # 5-Heater	19.0	19.0	19.0	
Hydro Heater H-402	54.7	54.7	54.7	
ID Fan-ID Fan - East (128302)	23.4	23.4	23.4	
ID Fan-ID Fan - East 1 (128306)	17.5	17.5	17.5	
ID Fan-ID Fan - North	23.1	23.1	23.1	
ID Fan-ID Fan - North 2	24.9	24.9	24.9	
ID Fan-ID Fan - South	33.0	33.0	33.0	
ID Fan-ID Fan - South 2	28.2	28.2	28.2	
ID Fan-ID Fan Roof 01 (128293)	26.8	26.8	26.8	
Motor & Pump P - 1502 Splitter Reflux Pu	42.7	42.7	42.7	
Motor & Pump P - 1503 Splitter Bottoms P	42.4	42.4	42.4	
Motor & Pump P - 1504 Splitter Bottoms P	42.4	42.4	42.4	
Motor & Pump P - 1507 Reactor Pump	49.5	49.5	49.5	
Motor & Pump P - 1508 Reactor Pump	49.3	49.3	49.3	
Motor & Pump P - 1511 Stabilizer Reflux	41.2	41.2	41.2	
Motor & Pump P - 1512 Stabilizer Reflux	42.9	42.9	42.9	
Motor & Pump P - 1513 Caustic Circulatin	47.0	47.0	47.0	
Motor & Pump P - 1514 Caustic Circulatin	43.3	43.3	43.3	
Motor & Pump P 120/121	29.1	29.1	29.1	
Motor & Pump P 1505 FRESH FEED PUMPS	51.1	51.1	51.1	
Motor & Pump P 1506 FRESH FEED PUMPS	49.5	49.5	49.5	
Motor & Pump P 1509 Chloride Injection P	35.8	35.8	35.8	
Motor & Pump P 1510 Chloride Injection P	35.5	35.5	35.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1601 A	33.4	33.4	33.4	
Motor & Pump P 1601 B	34.2	34.2	34.2	
Motor & Pump P 1602 A	33.8	33.8	33.8	
Motor & Pump P 1602 B	34.6	34.6	34.6	
Motor & Pump P 211/212	49.4	49.4	49.4	
Motor & Pump P 215/214	54.6	54.6	54.6	
Motor & Pump P 216	59.4	59.4	59.4	
Motor & Pump P 217/218	50.5	50.5	50.5	
Motor & Pump P 300	46.4	46.4	46.4	
Motor & Pump P 301	51.5	51.5	51.5	
Motor & Pump P 302	46.2	46.2	46.2	
Motor & Pump P 303	46.2	46.2	46.2	
Motor & Pump P 305	46.5	46.5	46.5	
Motor & Pump P 306	60.3	60.3	60.3	
Motor & Pump P 307	51.9	51.9	51.9	
Motor & Pump P 309	46.4	46.4	46.4	
Motor & Pump P 312	52.8	52.8	52.8	
Motor & Pump P 313	52.9	52.9	52.9	
Motor & Pump P 315	55.4	55.4	55.4	
Motor & Pump P 316	55.7	55.7	55.7	
Motor & Pump P 317	56.3	56.3	56.3	
Motor & Pump P 318	51.8	51.8	51.8	
Motor & Pump P 319	51.6	51.6	51.6	
Motor & Pump P 327	47.3	47.3	47.3	
Motor & Pump P 328	58.3	58.3	58.3	
Motor & Pump P 329	58.8	58.8	58.8	
Motor & Pump P 451	43.3	43.3	43.3	
Motor & Pump P 453	52.5	52.5	52.5	
Motor & Pump P 454	43.9	43.9	43.9	
Motor & Pump P 457	49.3	49.3	49.3	
Motor & Pump P 458	43.1	43.1	43.1	
Motor & Pump P 459	44.4	44.4	44.4	
Motor & Pump P 56A/B	48.3	48.3	48.3	
Nitrogen Skid w Compressor 18-PK 1806	52.6	52.6	52.6	
P-060 A/B	31.4	31.4	31.4	
P-1101 A	27.9	27.9	27.9	
P-1103	28.0	28.0	28.0	
P-1105 A/B/C	27.1	27.1	27.1	
P-1800	29.6	29.6	29.6	
P-1801	15.8	15.8	15.8	
P-1802	26.6	26.6	26.6	
P-1803	32.0	32.0	32.0	
P-1804	33.8	33.8	33.8	
P-1805	33.8	33.8	33.8	
P-1806	34.9	34.9	34.9	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1809 A	29.9	29.9	29.9	
P-1810 A/B/C	31.2	31.2	31.2	
P-1811 A/B	33.5	33.5	33.5	
P-1811 A/B	33.8	33.8	33.8	
P-1847 A/B	34.8	34.8	34.8	
P-1849 A/B	34.6	34.6	34.6	
P-1853	45.0	45.0	45.0	
P-2 A/B	28.7	28.7	28.7	
P-251 A/B	44.1	44.1	44.1	
P-252 A/B	37.2	37.2	37.2	
P-253	40.4	40.4	40.4	
P-254 A/B	43.5	43.5	43.5	
P-255 A/B	43.6	43.6	43.6	
P-255 A/B	44.6	44.6	44.6	
P-256 A/B	43.9	43.9	43.9	
P-259 A/B	44.4	44.4	44.4	
P-260	46.3	46.3	46.3	
P-261 A/B	46.9	46.9	46.9	
P-262 A/B	46.9	46.9	46.9	
P-263 A/B	46.9	46.9	46.9	
P-270 A/B	33.8	33.8	33.8	
P-271 A/B	43.0	43.0	43.0	
P-272 A/B	43.2	43.2	43.2	
P-273 A/B	36.0	36.0	36.0	
P-275 A/B/C	33.6	33.6	33.6	
P-305	43.0	43.0	43.0	
P-306	44.0	44.0	44.0	
P-309	42.9	42.9	42.9	
P-328	39.3	39.3	39.3	
P-329	39.1	39.1	39.1	
P-353	37.5	37.5	37.5	
P-358 A/B	38.8	38.8	38.8	
P-359 A/B	36.6	36.6	36.6	
P-360 A/B	37.2	37.2	37.2	
P-361A	34.6	34.6	34.6	
P-371 A/B	40.6	40.6	40.6	
P-373 A/B	33.5	33.5	33.5	
P-374 A/B	33.8	33.8	33.8	
P-375 A/B	33.6	33.6	33.6	
P-376	34.2	34.2	34.2	
P-376 A/B	34.7	34.7	34.7	
P-377	35.0	35.0	35.0	
P-50 A/B	22.1	22.1	22.1	
P-51 A/B	21.8	21.8	21.8	
P-63	33.7	33.7	33.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-70 A/B	27.1	27.1	27.1	
P-73 A/B	30.0	30.0	30.0	
Piping Furnace Tanks	21.9	21.9	21.9	
Piping Hydrogen Tanks Compressor	28.2	28.2	28.2	
Piping Hydrogen Tanks Compressor w NC	39.6	39.6	39.6	
Piping Hydrogen Tanks Compressorw NC	35.9	35.9	35.9	
Pre-Treat Train-Pre-Treat Outside Area E	27.7	27.7	27.7	
Pre-Treat Train-Pre-Treat Outside Area N	35.0	35.0	35.0	
Pre-Treat Train-Pre-Treat Outside Area N2	35.3	35.3	35.3	
Pre-Treat Train-Pre-Treat Outside Area S	37.5	37.5	37.5	
Pre-Treat Train-Pre-Treat Outside Area S2	36.3	36.3	36.3	
Pre-Treat Train-Pre-Treat Outside Area W1	32.3	32.3	32.3	
Pre-Treat Train-Pre-Treat Outside Area W2	40.9	40.9	40.9	
Pre-Treat Train-Pre-Treat Outside Area W3	39.1	39.1	39.1	
Pre-Treat Train-Roof 01	39.7	39.7	39.7	
PSA Pipe 3" Lagging	21.8	21.8	21.8	
PSA Skid Additional Piping w NC	41.8	41.8	41.8	
Reformer-Burner Reformer East	27.7	27.7	27.7	
Reformer-Burner Reformer North	35.8	35.8	35.8	
Reformer-Burner Reformer South	23.2	23.2	23.2	
Reformer-Burner Reformer West	35.9	35.9	35.9	
Revised Renewable Fuels Delivery for Pre	21.7	22.7	22.7	
Revised Renewable Fuels Delivery for Pre	26.3	27.2	27.2	
RFG A from battery to process	30.5	30.5	30.5	
RFG A from battery to process w NC	36.9	36.9	36.9	
Stack Noise	43.8	43.8	43.8	
Steam Turbine-Facade 01	42.5	42.5	42.5	
Steam Turbine-Facade 02	24.9	24.9	24.9	
Steam Turbine-Facade 03	33.5	33.5	33.5	
Steam Turbine-Facade 04	38.5	38.5	38.5	
Steam Turbine-Roof 01	36.4	36.4	36.4	
Tank Farm Pump 1	32.1	32.1	32.1	
Tank Farm Pump 2	31.7	31.7	31.7	
Tank Farm Pump 3	31.4	31.4	31.4	
UP Train Locomotive Delivery and Pickup 2022 2x	58.3		67.1	
XF-1502 Splitter Area 1	46.7	46.7	46.7	
XF-1502 Splitter Area 2	44.2	44.2	44.2	
XF-1504 Splitter Area 1	48.2	48.2	48.2	
XF-1504 Splitter Area 2	48.5	48.5	48.5	
XF - 1601	42.9	42.9	42.9	
XF - 1602	44.9	44.9	44.9	
XF 251, 250, 271, 270	40.8	40.8	40.8	
XF 260, 261A, 261 B	42.9	42.9	42.9	
XF 304, XF 321	57.5	57.5	57.5	
XF 313, XF 314	54.5	54.5	54.5	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 335-1, XF 335-2	54.7	54.7	54.7	
XF 353A/B	33.7	33.7	33.7	
XF 353A/B	33.2	33.2	33.2	
XF 354A/B	34.3	34.3	34.3	
XF 503	65.5	65.5	65.5	
XF Module 1510	51.0	51.0	51.0	
XF Module 1519	56.5	56.5	56.5	
Receiver S-10 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A)	Leq,D 71.0 dB(A)	Ld 7-19 dB(A)	Leq,N 69.0 dB(A)	Le 19-2
ID Fan Motor	25.5	25.5	25.5	
18-1855 A/B	30.1	30.1	30.1	
18-1856 A/B	27.8	27.8	27.8	
18-1857 A/B	30.0	30.0	30.0	
18-1858 A/B	30.3	30.3	30.3	
18-PK 1802 Air Compressor Package	35.7	35.7	35.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	63.1		65.8	
Air Compressor C 1	50.2	50.2	50.2	
Air Compressor Pump	39.9	39.9	39.9	
Blower F 401	60.3	60.3	60.3	
Boiler Crude Unit-Heater Opening	30.5	30.5	30.5	
Boiler Feed Water Pump A	30.0	30.0	30.0	
Boiler Feed Water Pump B	30.7	30.7	30.7	
C-270 A	40.8	40.8	40.8	
C-270 B	40.6	40.6	40.6	
C-270 C	38.8	38.8	38.8	
C-301 Compressor	40.3	40.3	40.3	
C-301 Motor	38.2	38.2	38.2	
C-351 Compressor	41.1	41.1	41.1	
C-351 Motor	39.0	39.0	39.0	
C370 A Motor	41.2	41.2	41.2	
C370 B Motor	46.6	46.6	46.6	
C370A	41.7	41.7	41.7	
C370B	40.1	40.1	40.1	
Cars Pumping 6 times in during delivery	62.2		70.9	
Compressor House C301, C302, C 124-Comp House East 1	33.6	33.6	33.6	
Compressor House C301, C302, C 124-Comp House East 2	38.0	38.0	38.0	
Compressor House C301, C302, C 124-Comp House North	56.9	56.9	56.9	
Compressor House C301, C302, C 124-Comp House South 1	47.8	47.8	47.8	
Compressor House C301, C302, C 124-Comp House South 2	40.3	40.3	40.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Compressor House C301, C302, C 124-Comp House West	52.9	52.9	52.9	
Construction / Renewable Fuels Truck Tr	36.6	36.6	36.6	
Cooling Tower CT 510-CT 510 East Side	29.8	29.8	29.8	
Cooling Tower CT 510-CT 510 West Side	37.8	37.8	37.8	
Cooling Tower CT 511-CT 511 East Side	22.4	22.4	22.4	
Cooling Tower CT 511-CT 511 West Side	37.7	37.7	37.7	
Cooling Tower M 512	30.8	30.8	30.8	
Cooling Tower M 513	31.0	31.0	31.0	
Cooling Tower M 514	31.4	31.4	31.4	
Crude Operatoin Truck Truck Traffic	24.9	25.9	25.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	28.1	28.1	28.1	
FD Fan Assembly-FD Fan - East	26.9	26.9	26.9	
FD Fan Assembly-FD Fan - North	29.9	29.9	29.9	
FD Fan Assembly-FD Fan - Roof	22.9	22.9	22.9	
FD Fan Assembly-FD Fan - South	27.2	27.2	27.2	
FD Fan Assembly-FD Fan - West	31.8	31.8	31.8	
FD Motor	24.6	24.6	24.6	
Feed Compressor-A Compressor	36.2	36.2	36.2	
Feed Compressor-A Motor	35.7	35.7	35.7	
Feed Compressor-B Compressor	37.1	37.1	37.1	
Feed Compressor -B Motor	38.3	38.3	38.3	
H2S Compressor 18-C-271	51.4	51.4	51.4	
Heater # 5-Heater	16.4	16.4	16.4	
Heater # 5-Heater	17.5	17.5	17.5	
Heater # 5-Heater	16.3	16.3	16.3	
Hydro Heater H-402	38.6	38.6	38.6	
ID Fan-ID Fan - East (128302)	17.9	17.9	17.9	
ID Fan-ID Fan - East 1 (128306)	16.8	16.8	16.8	
ID Fan-ID Fan - North	22.4	22.4	22.4	
ID Fan-ID Fan - North 2	21.3	21.3	21.3	
ID Fan-ID Fan - South	23.6	23.6	23.6	
ID Fan-ID Fan - South 2	22.4	22.4	22.4	
ID Fan-ID Fan Roof 01 (128293)	22.2	22.2	22.2	
Motor & Pump P - 1502 Splitter Reflux Pu	42.0	42.0	42.0	
Motor & Pump P - 1503 Splitter Bottoms P	44.5	44.5	44.5	
Motor & Pump P - 1504 Splitter Bottoms P	46.0	46.0	46.0	
Motor & Pump P - 1507 Reactor Pump	44.5	44.5	44.5	
Motor & Pump P - 1508 Reactor Pump	46.5	46.5	46.5	
Motor & Pump P - 1511 Stabilizer Reflux	45.1	45.1	45.1	
Motor & Pump P - 1512 Stabilizer Reflux	45.5	45.5	45.5	
Motor & Pump P - 1513 Caustic Circulatin	46.3	46.3	46.3	
Motor & Pump P - 1514 Caustic Circulatin	46.1	46.1	46.1	
Motor & Pump P 120/121	34.4	34.4	34.4	
Motor & Pump P 1505 FRESH FEED PUMPS	36.7	36.7	36.7	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
Motor & Pump P 1506 FRESH FEED PUMPS	41.6	41.6	41.6	
Motor & Pump P 1509 Chloride Injection P	35.6	35.6	35.6	
Motor & Pump P 1510 Chloride Injection P	34.1	34.1	34.1	
Motor & Pump P 1601 A	41.2	41.2	41.2	
Motor & Pump P 1601 B	41.4	41.4	41.4	
Motor & Pump P 1602 A	41.7	41.7	41.7	
Motor & Pump P 1602 B	42.1	42.1	42.1	
Motor & Pump P 211/212	44.9	44.9	44.9	
Motor & Pump P 215/214	41.1	41.1	41.1	
Motor & Pump P 216	50.4	50.4	50.4	
Motor & Pump P 217/218	44.7	44.7	44.7	
Motor & Pump P 300	37.4	37.4	37.4	
Motor & Pump P 301	42.6	42.6	42.6	
Motor & Pump P 302	37.1	37.1	37.1	
Motor & Pump P 303	37.4	37.4	37.4	
Motor & Pump P 305	38.4	38.4	38.4	
Motor & Pump P 306	52.2	52.2	52.2	
Motor & Pump P 307	44.7	44.7	44.7	
Motor & Pump P 309	38.2	38.2	38.2	
Motor & Pump P 312	48.1	48.1	48.1	
Motor & Pump P 313	51.6	51.6	51.6	
Motor & Pump P 315	56.9	56.9	56.9	
Motor & Pump P 316	57.1	57.1	57.1	
Motor & Pump P 317	57.1	57.1	57.1	
Motor & Pump P 318	54.7	54.7	54.7	
Motor & Pump P 319	52.6	52.6	52.6	
Motor & Pump P 327	51.7	51.7	51.7	
Motor & Pump P 328	51.2	51.2	51.2	
Motor & Pump P 329	50.5	50.5	50.5	
Motor & Pump P 451	34.6	34.6	34.6	
Motor & Pump P 453	31.1	31.1	31.1	
Motor & Pump P 454	35.1	35.1	35.1	
Motor & Pump P 457	36.8	36.8	36.8	
Motor & Pump P 458	34.4	34.4	34.4	
Motor & Pump P 459	34.8	34.8	34.8	
Motor & Pump P 56A/B	45.3	45.3	45.3	
Nitrogen Skid w Compressor 18-PK 1806	36.6	36.6	36.6	
P-060 A/B	26.4	26.4	26.4	
P-1101 A	28.9	28.9	28.9	
P-1103	29.0	29.0	29.0	
P-1105 A/B/C	25.3	25.3	25.3	
P-1800	27.1	27.1	27.1	
P-1801	24.2	24.2	24.2	
P-1802	24.2	24.2	24.2	
P-1803	28.1	28.1	28.1	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-1804	19.7	19.7	19.7	
P-1805	19.8	19.8	19.8	
P-1806	33.0	33.0	33.0	
P-1809 A	29.6	29.6	29.6	
P-1810 A/B/C	19.8	19.8	19.8	
P-1811 A/B	32.5	32.5	32.5	
P-1811 A/B	20.9	20.9	20.9	
P-1847 A/B	32.2	32.2	32.2	
P-1849 A/B	31.7	31.7	31.7	
P-1853	38.1	38.1	38.1	
P-2 A/B	18.6	18.6	18.6	
P-251 A/B	35.6	35.6	35.6	
P-252 A/B	31.8	31.8	31.8	
P-253	33.5	33.5	33.5	
P-254 A/B	34.2	34.2	34.2	
P-255 A/B	32.7	32.7	32.7	
P-255 A/B	35.5	35.5	35.5	
P-256 A/B	36.5	36.5	36.5	
P-259 A/B	35.4	35.4	35.4	
P-260	34.9	34.9	34.9	
P-261 A/B	36.7	36.7	36.7	
P-262 A/B	37.9	37.9	37.9	
P-263 A/B	35.0	35.0	35.0	
P-270 A/B	26.2	26.2	26.2	
P-271 A/B	35.5	35.5	35.5	
P-272 A/B	36.0	36.0	36.0	
P-273 A/B	31.7	31.7	31.7	
P-275 A/B/C	31.6	31.6	31.6	
P-305	33.0	33.0	33.0	
P-306	35.9	35.9	35.9	
P-309	32.8	32.8	32.8	
P-328	35.2	35.2	35.2	
P-329	35.4	35.4	35.4	
P-353	34.9	34.9	34.9	
P-358 A/B	33.5	33.5	33.5	
P-359 A/B	22.7	22.7	22.7	
P-360 A/B	30.6	30.6	30.6	
P-361A	27.0	27.0	27.0	
P-371 A/B	42.7	42.7	42.7	
P-373 A/B	37.7	37.7	37.7	
P-374 A/B	37.9	37.9	37.9	
P-375 A/B	38.8	38.8	38.8	
P-376	38.2	38.2	38.2	
P-376 A/B	37.6	37.6	37.6	
P-377	38.3	38.3	38.3	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
P-50 A/B	22.0	22.0	22.0	
P-51 A/B	14.5	14.5	14.5	
P-63	30.2	30.2	30.2	
P-70 A/B	26.2	26.2	26.2	
P-73 A/B	24.3	24.3	24.3	
Piping Furnace Tanks	20.6	20.6	20.6	
Piping Hydrogen Tanks Compressor	28.5	28.5	28.5	
Piping Hydrogen Tanks Compressor w NC	51.2	51.2	51.2	
Piping Hydrogen Tanks Compressorw NC	47.4	47.4	47.4	
Pre-Treat Train-Pre-Treat Outside Area E	28.3	28.3	28.3	
Pre-Treat Train-Pre-Treat Outside Area N	42.2	42.2	42.2	
Pre-Treat Train-Pre-Treat Outside Area N2	35.7	35.7	35.7	
Pre-Treat Train-Pre-Treat Outside Area S	36.9	36.9	36.9	
Pre-Treat Train-Pre-Treat Outside Area S2	33.2	33.2	33.2	
Pre-Treat Train-Pre-Treat Outside Area W1	32.6	32.6	32.6	
Pre-Treat Train-Pre-Treat Outside Area W2	39.4	39.4	39.4	
Pre-Treat Train-Pre-Treat Outside Area W3	35.4	35.4	35.4	
Pre-Treat Train-Roof 01	39.6	39.6	39.6	
PSA Pipe 3" Lagging	23.0	23.0	23.0	
PSA Skid Additional Piping w NC	52.3	52.3	52.3	
Reformer-Burner Reformer East	30.6	30.6	30.6	
Reformer-Burner Reformer North	34.5	34.5	34.5	
Reformer-Burner Reformer South	21.6	21.6	21.6	
Reformer-Burner Reformer West	38.1	38.1	38.1	
Revised Renewable Fuels Delivery for Pre	19.4	20.3	20.3	
Revised Renewable Fuels Delivery for Pre	22.1	23.1	23.1	
RFG A from battery to process	29.4	29.4	29.4	
RFG A from battery to process w NC	45.6	45.6	45.6	
Stack Noise	37.1	37.1	37.1	
Steam Turbine-Facade 01	26.1	26.1	26.1	
Steam Turbine-Facade 02	20.2	20.2	20.2	
Steam Turbine-Facade 03	32.3	32.3	32.3	
Steam Turbine-Facade 04	27.4	27.4	27.4	
Steam Turbine-Roof 01	29.2	29.2	29.2	
Tank Farm Pump 1	30.4	30.4	30.4	
Tank Farm Pump 2	29.9	29.9	29.9	
Tank Farm Pump 3	30.2	30.2	30.2	
UP Train Locomotive Delivery and Pickup 2022 2x	59.2		67.9	
XF-1502 Splitter Area 1	48.4	48.4	48.4	
XF-1502 Splitter Area 2	48.3	48.3	48.3	
XF-1504 Splitter Area 1	47.9	47.9	47.9	
XF-1504 Splitter Area 2	47.9	47.9	47.9	
XF - 1601	38.9	38.9	38.9	
XF - 1602	41.0	41.0	41.0	
XF 251, 250, 271, 270	38.0	38.0	38.0	

AltAir Paramount - WorldEnergy
Contribution level - Case 3

Source	Leq,D dB(A)	Leq,N dB(A)	Lmax day h dB(A)	
XF 260, 261A, 261 B	36.8	36.8	36.8	
XF 304, XF 321	54.0	54.0	54.0	
XF 313, XF 314	49.2	49.2	49.2	
XF 335-1, XF 335-2	50.8	50.8	50.8	
XF 353A/B	30.8	30.8	30.8	
XF 353A/B	29.8	29.8	29.8	
XF 354A/B	30.3	30.3	30.3	
XF 503	55.9	55.9	55.9	
XF Module 1510	52.6	52.6	52.6	
XF Module 1519	53.4	53.4	53.4	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Receiver W-1 FI G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 67.8 dB(A)			Ld 7-19 dB(A)		Leq,N 67.0 dB(A)		Le 19-22 dB(A)		CNEL 73.8 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	379.08	-62.6	5.2	-11.7	-1.8		0.0	0.0	0.0	0.0	33.5	
18-1855 A/B	Leq,D	98.8		392.31	-62.9	5.5	-9.1	-1.2		0.0	1.1	0.0	0.0	32.2	
18-1856 A/B	Leq,D	98.8		399.03	-63.0	5.5	-15.1	-1.2	-0.78	0.0	3.8	0.0	0.0	28.0	
18-1857 A/B	Leq,D	98.8		385.81	-62.7	5.5	-9.5	-1.2		0.0	1.2	0.0	0.0	32.1	
18-1858 A/B	Leq,D	98.8		381.35	-62.6	5.3	-9.7	-1.2		0.0	1.3	0.0	0.0	31.9	
18-PK 1802 Air Compressor Package	Leq,D	103.1		409.90	-63.2	5.7	-7.2	-0.6		0.0	0.1	0.0	0.0	37.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	172.43	-55.7	3.9	-0.1	-2.3	0.00	0.0	0.3	-2.7	0.0	52.4	
Air Compressor C 1	Leq,D	110.0	5	170.44	-55.6	5.0	-14.0	-0.4	-0.39	0.0	4.8	0.0	0.0	49.4	
Air Compressor Pump	Leq,D	100.3		325.50	-61.2	5.3	-15.2	-1.7		0.0	5.6	0.0	0.0	33.0	
Blower F 401	Leq,D	113.0		206.77	-57.3	4.6	-4.5	-0.3	-0.73	0.0	0.0	0.0	0.0	54.8	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	511.82	-65.2	5.5	-13.7	-1.0	-0.54	0.0	0.0	0.0	0.0	23.7	
Boiler Feed Water Pump A	Leq,D	97.1	3	392.28	-62.9	5.4	-4.5	-1.5	-0.74	0.0	0.0	0.0	0.0	33.0	
Boiler Feed Water Pump B	Leq,D	97.1	3	393.24	-62.9	5.4	-5.4	-1.5		0.0	0.3	0.0	0.0	33.0	
C370 A Motor	Leq,D	103.6	3	311.30	-60.9	4.6	-7.3	-1.4	-0.30	0.0	0.1	0.0	0.0	38.6	
C370 B Motor	Leq,D	108.6	3	321.56	-61.1	4.7	-5.3	-1.6	-0.12	0.0	0.1	0.0	0.0	45.2	
C370A	Leq,D	103.8	5	310.31	-60.8	4.7	-4.7	-1.7	-0.35	0.0	0.1	0.0	0.0	41.0	
C370B	Leq,D	103.8	5	320.60	-61.1	4.7	-5.2	-1.7	-0.51	0.0	0.1	0.0	0.0	40.2	
C-270 A	Leq,D	106.3	6	458.25	-64.2	5.2	-5.5	-2.3	-2.15	0.0	0.6	0.0	0.0	37.9	
C-270 B	Leq,D	106.3	6	453.79	-64.1	5.1	-4.0	-2.4	-2.37	0.0	0.4	0.0	0.0	38.9	
C-270 C	Leq,D	106.3	6	449.41	-64.0	5.1	-5.9	-2.2	-2.37	0.0	0.4	0.0	0.0	37.2	
C-301 Compressor	Leq,D	106.8	3	463.44	-64.3	5.2	-13.9	-1.3	-0.34	0.0	0.0	0.0	0.0	32.1	
C-301 Motor	Leq,D	106.8	4	459.89	-64.2	5.2	-15.4	-1.9	-0.40	0.0	0.2	0.0	0.0	30.3	
C-351 Compressor	Leq,D	106.8	4	473.03	-64.5	5.2	-6.2	-2.1	-2.15	0.0	0.4	0.0	0.0	37.4	
C-351 Motor	Leq,D	106.8	5	474.89	-64.5	5.0	-7.0	-2.8	-2.03	0.0	0.9	0.0	0.0	36.4	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	185.16	-56.3	4.5	-0.5	-0.5		0.0	0.1	-33.5	0.0	48.4	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	162.49	-55.2	3.8	-20.2	-0.4		-7.8	0.0	0.0	0.0	24.9	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	164.52	-55.3	3.8	-19.3	-0.6		0.0	0.2	0.0	0.0	29.4	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	152.10	-54.6	3.7	-9.6	-0.3		4.2	0.4	0.0	0.0	50.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	154.12	-54.7	3.7	-15.6	-0.3		-5.8	0.0	0.0	0.0	37.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	163.52	-55.3	3.8	-20.6	-0.5		-5.3	0.0	0.0	0.0	25.9	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	143.41	-54.1	3.6	-7.2	-0.8		0.7	0.2	0.0	0.0	42.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	231.44	-58.3	4.4	-16.9	-0.6	-0.64	-7.8	7.7	0.0	0.0	25.9	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	219.43	-57.8	4.3	-3.0	-1.2	-0.40	0.2	0.2	0.0	0.0	40.1	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	255.78	-59.1	4.1	-19.7	-0.8	-0.56	-7.8	2.3	0.0	0.0	19.1	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	238.26	-58.5	4.2	-7.8	-1.2	-0.52	0.2	0.5	0.0	0.0	37.4	
Cooling Tower M 512	Leq,D	95.7		227.00	-58.1	5.0	-5.3	-1.1	-0.77	0.0	0.2	0.0	0.0	35.7	
Cooling Tower M 513	Leq,D	95.7		225.65	-58.1	4.9	-5.6	-1.1	-0.78	0.0	0.4	0.0	0.0	35.5	
Cooling Tower M 514	Leq,D	95.7		228.49	-58.2	5.0	-5.1	-1.1	-0.77	0.0	0.2	0.0	0.0	35.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	377.76	-62.5	4.0	-6.4	-0.6		-1.8	0.2	0.0	0.0	28.8	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	366.39	-62.3	5.0	-4.7	-0.1	-0.11	0.0	0.0	0.0	0.0	33.3	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	364.92	-62.2	5.1	-0.5	-0.2	-0.42	0.0	0.0	0.0	0.0	34.8	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	365.12	-62.2	4.5	-3.3	-0.2	-0.22	0.0	0.0	0.0	0.0	32.0	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	365.26	-62.2	5.0	-2.2	-0.1	-0.25	0.0	0.0	0.0	0.0	33.4	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	363.79	-62.2	5.0	-0.3	-0.2	-0.29	0.0	0.0	0.0	0.0	37.4	
FD Motor	Leq,D	103.3	2	367.54	-62.3	5.2	-15.9	-1.6	-0.95	0.0	0.1	0.0	0.0	27.8	
Feed Compressor -B Motor	Leq,D	103.8	5	355.12	-62.0	4.8	-15.3	-1.5		0.0	3.1	0.0	0.0	32.9	
Feed Compressor-A Compressor	Leq,D	104.0	5	339.94	-61.6	4.9	-15.6	-1.1	-0.72	0.0	0.5	0.0	0.0	30.4	
Feed Compressor-A Motor	Leq,D	103.8	6	341.43	-61.7	4.7	-21.8	-2.0	-0.17	0.0	4.5	0.0	0.0	27.4	
Feed Compressor-B Compressor	Leq,D	104.0	7	353.60	-62.0	4.9	-6.8	-1.7	-0.18	0.0	0.3	0.0	0.0	38.6	
H2S Compressor 18-C-271	Leq,D	105.3	6	172.45	-55.7	4.3	-10.0	-0.7	-0.31	0.0	1.7	0.0	0.0	44.6	
Heater # 5-Heater	Leq,D	91.1	13	508.46	-65.1	5.5	-19.2	-1.0	-0.60	0.0	0.0	0.0	0.0	13.7	
Heater # 5-Heater	Leq,D	91.1	13	503.98	-65.0	5.5	-19.0	-1.0	-0.53	0.0	0.0	0.0	0.0	14.0	
Heater # 5-Heater	Leq,D	91.1	13	512.84	-65.2	5.5	-18.9	-1.0	-0.77	0.0	0.2	0.0	0.0	14.0	
Hydro Heater H-402	Leq,D	98.1		201.19	-57.1	4.8	-7.7	-0.4	-0.83	0.0	0.0	0.0	0.0	37.0	
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	380.35	-62.6	5.2	-9.8	-0.1	-0.06	0.0	0.0	0.0	0.0	19.6	
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	380.64	-62.6	5.2	-15.6	-0.1		0.0	0.0	0.0	0.0	14.2	
ID Fan-ID Fan - North	Leq,D	92.2	8	378.90	-62.6	5.2	-8.3	-0.1		0.0	0.0	0.0	0.0	26.4	
ID Fan-ID Fan - North 2	Leq,D	91.4	7	381.53	-62.6	5.2	-9.1	-0.1		0.0	0.0	0.0	0.0	24.8	
ID Fan-ID Fan - South	Leq,D	92.3	9	379.25	-62.6	5.2	-15.3	-0.1		0.0	0.0	0.0	0.0	19.6	
ID Fan-ID Fan - South 2	Leq,D	91.4	7	381.72	-62.6	5.2	-15.4	-0.1	-0.14	0.0	0.0	0.0	0.0	18.4	
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	379.75	-62.6	4.9	-12.8	-0.1		0.0	0.0	0.0	0.0	23.4	
Motor & Pump P 56A/B	Leq,D	93.7		188.98	-56.5	4.8	-5.7	-1.1	-0.49	0.0	0.3	0.0	0.0	35.0	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 120/121	Leq,D	96.2	2	170.48	-55.6	4.8	-5.3	-0.7	-0.05	0.0	0.0	0.0	0.0	39.4
Motor & Pump P 211/212	Leq,D	93.7		178.73	-56.0	4.9	-13.4	-0.7	-0.29	0.0	0.0	0.0	0.0	28.1
Motor & Pump P 215/214	Leq,D	94.6		176.42	-55.9	4.9	-18.7	-0.8	-0.17	0.0	0.0	0.0	0.0	23.9
Motor & Pump P 216	Leq,D	98.3		172.49	-55.7	4.7	-11.9	-0.8	-0.13	0.0	0.0	0.0	0.0	34.4
Motor & Pump P 217/218	Leq,D	93.7		177.75	-56.0	5.2	-16.6	-0.8	-0.23	0.0	0.0	0.0	0.0	25.3
Motor & Pump P 300	Leq,D	97.1	2	158.59	-55.0	4.8	-8.6	-0.5	-0.19	0.0	0.1	0.0	0.0	37.7
Motor & Pump P 301	Leq,D	102.1	2	158.58	-55.0	4.8	-7.1	-0.6	-0.20	0.0	0.3	0.0	0.0	44.3
Motor & Pump P 302	Leq,D	97.1	2	158.62	-55.0	4.8	-5.4	-0.7	-0.22	0.0	0.0	0.0	0.0	40.6
Motor & Pump P 303	Leq,D	97.1	2	158.56	-55.0	4.7	-3.1	-1.1	-0.38	0.0	0.0	0.0	0.0	42.3
Motor & Pump P 305	Leq,D	97.5	2	158.61	-55.0	4.7	-3.1	-1.1	-0.38	0.0	0.0	0.0	0.0	42.7
Motor & Pump P 306	Leq,D	112.6	4	159.33	-55.0	4.5	-6.5	-0.7	-0.20	0.0	0.1	0.0	0.0	54.8
Motor & Pump P 307	Leq,D	102.1	2	158.65	-55.0	4.8	-3.4	-1.1	-0.38	0.0	0.1	0.0	0.0	47.1
Motor & Pump P 309	Leq,D	97.5	2	158.68	-55.0	4.7	-3.1	-1.1	-0.38	0.0	2.8	0.0	0.0	45.5
Motor & Pump P 312	Leq,D	101.5	2	160.89	-55.1	5.0	-14.0	-0.5	-0.13	0.0	1.1	0.0	0.0	37.9
Motor & Pump P 313	Leq,D	101.5	2	161.20	-55.1	5.0	-12.0	-0.5	-0.43	0.0	0.7	0.0	0.0	39.1
Motor & Pump P 315	Leq,D	102.9	2	162.24	-55.2	4.8	-11.5	-0.5	-0.43	0.0	0.8	0.0	0.0	40.9
Motor & Pump P 316	Leq,D	102.9	2	162.68	-55.2	4.8	-4.7	-0.8	-0.41	0.0	0.0	0.0	0.0	46.6
Motor & Pump P 317	Leq,D	102.9	2	163.25	-55.2	4.7	-3.2	-1.2	-0.40	0.0	0.1	0.0	0.0	47.7
Motor & Pump P 318	Leq,D	100.2	1	162.31	-55.2	5.1	-11.1	-0.5	-0.44	0.0	0.0	0.0	0.0	38.0
Motor & Pump P 319	Leq,D	100.2	1	162.01	-55.2	5.1	-13.6	-0.5	-0.44	0.0	0.0	0.0	0.0	35.5
Motor & Pump P 327	Leq,D	111.2	3	159.68	-55.1	4.7	-2.3	-1.7	-0.37	0.0	2.8	0.0	0.0	59.4
Motor & Pump P 328	Leq,D	109.9	5	158.91	-55.0	4.5	-2.0	-1.1	-0.38	0.0	2.8	0.0	0.0	58.7
Motor & Pump P 329	Leq,D	110.2	5	159.11	-55.0	4.5	-2.0	-1.0	-0.37	0.0	2.8	0.0	0.0	59.0
Motor & Pump P 451	Leq,D	93.7		204.50	-57.2	4.9	-16.5	-1.0	-0.76	0.0	3.8	0.0	0.0	26.9
Motor & Pump P 453	Leq,D	93.7		211.33	-57.5	4.9	-15.3	-0.8	-0.79	0.0	2.5	0.0	0.0	26.6
Motor & Pump P 454	Leq,D	93.7		202.96	-57.1	4.9	-16.6	-0.9	-0.76	0.0	3.3	0.0	0.0	26.4
Motor & Pump P 457	Leq,D	93.7		211.91	-57.5	4.9	-18.1	-1.1	-0.80	0.0	0.7	0.0	0.0	21.8
Motor & Pump P 458	Leq,D	93.7		205.59	-57.3	4.9	-16.4	-1.0	-0.76	0.0	3.8	0.0	0.0	27.0
Motor & Pump P 459	Leq,D	93.7		202.63	-57.1	4.9	-16.4	-0.9	-0.76	0.0	3.1	0.0	0.0	26.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		210.75	-57.5	5.0	-11.9	-0.8	-0.64	0.0	3.0	0.0	0.0	33.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		210.45	-57.5	5.0	-12.4	-0.8	-0.64	0.0	2.9	0.0	0.0	32.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		216.12	-57.7	5.1	0.0	-1.9	-0.70	0.0	0.3	0.0	0.0	40.5
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		216.10	-57.7	5.1	0.0	-1.9	-0.70	0.0	0.3	0.0	0.0	40.5
Motor & Pump P 1601 A	Leq,D	96.3	2	238.51	-58.5	4.9	-12.8	-0.9	-0.31	0.0	3.0	0.0	0.0	31.6
Motor & Pump P 1601 B	Leq,D	96.3	2	240.04	-58.6	4.9	-12.8	-0.9	-0.31	0.0	2.9	0.0	0.0	31.5
Motor & Pump P 1602 A	Leq,D	96.3	2	241.23	-58.6	4.9	-12.8	-0.9	-0.31	0.0	2.8	0.0	0.0	31.4
Motor & Pump P 1602 B	Leq,D	96.5	2	242.71	-58.7	4.9	-12.7	-0.9	-0.31	0.0	2.8	0.0	0.0	31.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	219.81	-57.8	5.1	-12.4	-0.8	-0.77	0.0	2.0	0.0	0.0	31.9
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	218.93	-57.8	5.1	-12.9	-0.8	-0.17	0.0	3.4	0.0	0.0	33.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	218.57	-57.8	5.1	-11.1	-1.0	-0.17	0.0	2.7	0.0	0.0	34.2
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	210.74	-57.5	5.0	-12.7	-0.8	-0.64	0.0	2.0	0.0	0.0	32.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	210.44	-57.5	5.0	-14.1	-0.9	-0.17	0.0	2.9	0.0	0.0	32.1
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	224.64	-58.0	5.1	-8.7	-1.3	-0.89	0.0	0.1	0.0	0.0	32.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	222.36	-57.9	5.1	-8.9	-1.2	-0.84	0.0	0.2	0.0	0.0	32.7
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	218.37	-57.8	5.1	-9.4	-1.2	-0.76	0.0	0.3	0.0	0.0	32.5
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	220.14	-57.8	5.1	-9.2	-1.2	-0.80	0.0	0.2	0.0	0.0	32.5
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	196.20	-56.8	4.5	-8.2	-0.9	-0.37	0.0	0.8	0.0	0.0	43.2
P-2 A/B	Leq,D	98.5		575.27	-66.2	5.8	-21.4	-1.9		0.0	0.2	0.0	0.0	15.1
P-50 A/B	Leq,D	98.1		532.23	-65.5	5.8	-19.2	-1.5	-2.79	0.0	0.1	0.0	0.0	15.0
P-51 A/B	Leq,D	98.1		533.70	-65.5	5.8	-22.9	-2.0	-0.23	0.0	0.1	0.0	0.0	13.4
P-060 A/B	Leq,D	98.1		528.48	-65.5	5.8	-15.2	-1.5	-1.35	0.0	0.0	0.0	0.0	20.4
P-63	Leq,D	98.5		549.99	-65.8	5.8	-9.8	-1.6	-1.79	0.0	1.1	0.0	0.0	26.4
P-70 A/B	Leq,D	98.1		530.11	-65.5	5.8	-15.4	-1.5	-1.63	0.0	0.0	0.0	0.0	19.9
P-73 A/B	Leq,D	98.5		571.08	-66.1	5.8	-21.0	-1.9		0.0	0.7	0.0	0.0	16.0
P-251 A/B	Leq,D	98.2		397.46	-63.0	5.7	-3.0	-1.6	-1.94	0.0	0.0	0.0	0.0	34.3
P-252 A/B	Leq,D	98.2		396.32	-63.0	5.7	-11.1	-1.2	-1.45	0.0	0.0	0.0	0.0	27.2
P-253	Leq,D	98.2		403.57	-63.1	5.7	-10.1	-1.2	-1.45	0.0	0.0	0.0	0.0	28.0
P-254 A/B	Leq,D	98.2		408.01	-63.2	5.7	-4.1	-1.7	-1.96	0.0	0.0	0.0	0.0	32.9
P-255 A/B	Leq,D	98.2		404.80	-63.1	5.7	-3.9	-1.7	-1.96	0.0	0.0	0.0	0.0	33.2
P-255 A/B	Leq,D	98.2		390.68	-62.8	5.7	-5.5	-1.4	-1.89	0.0	0.0	0.0	0.0	32.2
P-256 A/B	Leq,D	98.2		400.63	-63.0	5.7	-5.1	-1.8	-1.94	0.0	0.0	0.0	0.0	32.0
P-259 A/B	Leq,D	98.2		394.17	-62.9	5.7	-2.4	-1.7	-1.92	0.0	0.0	0.0	0.0	35.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-260	Leq,D	99.1		377.97	-62.5	5.7	-5.7	-1.5	-1.39	0.0	0.0	0.0	0.0	33.6
P-261 A/B	Leq,D	98.0		355.93	-62.0	5.7	-6.6	-1.2	-1.08	0.0	0.0	0.0	0.0	32.7
P-262 A/B	Leq,D	99.1		369.97	-62.4	5.7	-3.4	-1.5	-1.38	0.0	0.0	0.0	0.0	36.2
P-263 A/B	Leq,D	99.4		373.72	-62.4	5.7	-4.3	-1.4	-1.38	0.0	0.0	0.0	0.0	35.5
P-270 A/B	Leq,D	98.5		447.32	-64.0	5.7	-17.0	-1.3	-1.42	0.0	0.0	0.0	0.0	20.6
P-271 A/B	Leq,D	98.2		417.20	-63.4	5.7	-12.4	-1.2	-1.11	0.0	0.0	0.0	0.0	25.8
P-272 A/B	Leq,D	98.2		412.74	-63.3	5.7	-6.8	-1.4	-2.00	0.0	0.0	0.0	0.0	30.4
P-273 A/B	Leq,D	98.5		444.00	-63.9	5.7	-17.0	-1.3	-1.45	0.0	0.0	0.0	0.0	20.6
P-275 A/B/C	Leq,D	98.2		414.20	-63.3	5.7	-10.6	-1.3	-1.41	0.0	0.0	0.0	0.0	27.2
P-305	Leq,D	99.3		484.21	-64.7	5.8	-5.0	-2.1	-1.03	0.0	0.0	0.0	0.0	32.2
P-306	Leq,D	100.8		493.10	-64.9	5.8	-5.1	-2.1	-1.71	0.0	0.0	0.0	0.0	32.9
P-309	Leq,D	99.3		486.33	-64.7	5.8	-5.0	-2.1	-1.18	0.0	0.0	0.0	0.0	32.0
P-328	Leq,D	100.8		498.37	-64.9	5.8	-5.0	-2.1	-2.12	0.0	0.0	0.0	0.0	32.4
P-329	Leq,D	100.8		495.75	-64.9	5.8	-5.0	-2.1	-1.93	0.0	0.0	0.0	0.0	32.6
P-353	Leq,D	98.5		479.86	-64.6	5.6	-2.2	-1.9	-2.43	0.0	0.2	0.0	0.0	33.2
P-358 A/B	Leq,D	99.4		488.11	-64.8	5.8	-7.0	-1.7	-2.61	0.0	0.0	0.0	0.0	29.1
P-359 A/B	Leq,D	99.4		490.04	-64.8	5.8	-17.0	-1.4	-2.91	0.0	0.1	0.0	0.0	19.1
P-360 A/B	Leq,D	99.4		493.78	-64.9	5.8	-10.9	-1.4	-1.42	0.0	0.9	0.0	0.0	27.5
P-361A	Leq,D	98.1		521.04	-65.3	5.6	-8.7	-1.6	-0.22	0.0	0.0	0.0	0.0	27.9
P-371 A/B	Leq,D	98.0		267.79	-59.5	5.2	-9.1	-0.9	-0.77	0.0	0.0	0.0	0.0	33.0
P-373 A/B	Leq,D	98.0		285.93	-60.1	5.3	-6.2	-1.1	-0.75	0.0	0.0	0.0	0.0	35.2
P-374 A/B	Leq,D	98.0		282.23	-60.0	5.3	-6.7	-1.0	-0.76	0.0	0.0	0.0	0.0	34.8
P-375 A/B	Leq,D	98.0		273.83	-59.7	5.2	-10.6	-0.9		0.0	0.1	0.0	0.0	32.1
P-376	Leq,D	98.0		279.87	-59.9	5.3	-7.3	-1.0		0.0	0.0	0.0	0.0	35.0
P-376 A/B	Leq,D	98.0		289.88	-60.2	5.3	-5.6	-1.2	-0.73	0.0	0.0	0.0	0.0	35.6
P-377	Leq,D	98.0		277.68	-59.9	5.3	-7.6	-1.0		0.0	0.0	0.0	0.0	34.9
P-1101 A	Leq,D	98.9		559.69	-66.0	5.6	-15.4	-1.6	-2.00	0.0	0.2	0.0	0.0	19.7
P-1103	Leq,D	98.9		558.29	-65.9	5.6	-15.5	-1.6	-2.01	0.0	0.2	0.0	0.0	19.6
P-1105 A/B/C	Leq,D	98.9		564.90	-66.0	5.6	-17.7	-1.6	-0.26	0.0	0.2	0.0	0.0	19.1
P-1800	Leq,D	98.9		604.64	-66.6	5.8	-13.6	-1.8	-2.92	0.0	3.9	0.0	0.0	23.7
P-1801	Leq,D	98.9		649.14	-67.2	5.8	-24.7	-2.7		0.0	8.5	0.0	0.0	18.6
P-1802	Leq,D	98.9		648.16	-67.2	5.8	-24.9	-2.7		0.0	5.5	0.0	0.0	15.4
P-1803	Leq,D	99.1		528.14	-65.4	5.8	-24.8	-2.3		0.0	0.0	0.0	0.0	12.3
P-1804	Leq,D	99.1		545.32	-65.7	5.8	-13.3	-1.6	-0.32	0.0	0.0	0.0	0.0	24.0
P-1805	Leq,D	99.1		548.33	-65.8	5.8	-13.3	-1.6	-0.32	0.0	0.0	0.0	0.0	23.9
P-1806	Leq,D	99.1		504.94	-65.1	5.8	-10.2	-1.5		0.0	0.1	0.0	0.0	28.2
P-1809 A	Leq,D	98.9		613.87	-66.8	5.8	-20.4	-1.7		0.0	10.5	0.0	0.0	26.3
P-1810 A/B/C	Leq,D	99.0		547.26	-65.8	5.8	-24.8	-2.3		0.0	2.5	0.0	0.0	14.4
P-1811 A/B	Leq,D	99.1		511.55	-65.2	5.8	-13.9	-1.5		0.0	0.0	0.0	0.0	24.3
P-1811 A/B	Leq,D	99.1		552.07	-65.8	5.8	-13.2	-1.6	-0.32	0.0	0.0	0.0	0.0	24.0
P-1847 A/B	Leq,D	99.4		504.46	-65.0	5.8	-10.4	-1.4		0.0	1.2	0.0	0.0	29.5
P-1849 A/B	Leq,D	99.4		511.02	-65.2	5.8	-11.0	-1.4		0.0	1.4	0.0	0.0	29.0
P-1853	Leq,D	99.1		436.06	-63.8	5.7	-2.5	-1.8	-0.56	0.0	0.2	0.0	0.0	36.3
Piping Furnace Tanks	Leq,D	87.1	72	333.17	-61.4	3.9	-18.6	-4.7	-0.03	0.0	2.0	0.0	0.0	8.2
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	324.51	-61.2	4.0	-12.9	-5.8	-0.21	0.0	2.5	0.0	0.0	24.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	290.56	-60.3	4.5	-21.0	-1.9	-0.51	0.0	0.7	0.0	0.0	36.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	293.40	-60.3	4.5	-22.5	-4.4	-0.43	0.0	0.9	0.0	0.0	32.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	598.39	-66.5	4.8	-23.1	-2.2		0.0	5.1	0.0	0.0	28.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	571.50	-66.1	4.7	-11.1	-1.6		0.0	0.0	0.0	0.0	37.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	545.82	-65.7	4.6	-8.9	-1.5		0.0	0.1	0.0	0.0	32.7
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	579.02	-66.2	4.7	-18.1	-1.8		0.0	5.6	0.0	0.0	35.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	549.05	-65.8	4.6	-17.8	-1.7		0.0	6.9	0.0	0.0	30.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	549.61	-65.8	4.6	-12.5	-1.5		0.0	1.1	0.0	0.0	29.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	542.96	-65.7	4.6	-8.3	-1.6		0.0	0.9	0.0	0.0	36.8
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	555.06	-65.9	4.7	-13.1	-1.6		0.0	1.2	0.0	0.0	31.4
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	573.02	-66.2	3.5	-16.6	-1.6		0.0	4.1	0.0	0.0	36.4
PSA Pipe 3" Lagging	Leq,D	80.6	11	309.37	-60.8	3.1	-9.0	-2.1	-0.05	0.0	2.2	0.0	0.0	13.9
PSA Skid Additional Piping w NC	Leq,D	116.6	57	288.27	-60.2	4.5	-20.5	-1.8	-0.50	0.0	0.5	0.0	0.0	38.6
Reformer-Burner Reformer East	Leq,D	97.3	269	345.95	-61.8	3.5	-1.1	-2.2	-0.55	0.0	0.1	0.0	0.0	38.2
Reformer-Burner Reformer North	Leq,D	95.9	192	337.26	-61.6	3.4	-8.9	-1.4	-0.03	0.0	0.2	0.0	0.0	27.6
Reformer-Burner Reformer South	Leq,D	95.8	191	356.28	-62.0	3.3	-19.4	-1.5	0.00	0.0	1.4	0.0	0.0	20.7
Reformer-Burner Reformer West	Leq,D	97.3	268	347.26	-61.8	3.0	-19.6	-1.4		0.0	0.9	0.0	0.0	21.4
RFG A from battery to process	Leq,D	99.4	87	329.86	-61.4	4.0	-14.0	-5.5	-0.20	0.0	3.2	0.0	0.0	25.7
RFG A from battery to process w NC	Leq,D	115.2	42	293.04	-60.3	4.5	-23.2	-5.2	-0.58	0.0	0.6	0.0	0.0	30.9
Stack Noise	Leq,D	108.4		385.96	-62.7	3.0	-7.4	-0.6		-5.0	0.0	0.0	0.0	35.7
Steam Turbine-Facade 01	Leq,D	99.6	29	287.10	-60.2	5.0	-17.6	-2.5	-0.68	0.0	0.4	0.0	0.0	24.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Steam Turbine-Facade 02	Leq,D	96.2	13	290.72	-60.3	5.0	-21.3	-3.0	-0.31	0.0	0.1	0.0	0.0	16.5	
Steam Turbine-Facade 03	Leq,D	99.6	29	286.41	-60.1	5.0	-14.3	-1.7		0.0	0.6	0.0	0.0	29.1	
Steam Turbine-Facade 04	Leq,D	96.2	13	282.84	-60.0	5.0	-13.5	-1.7	-0.43	0.0	1.6	0.0	0.0	27.1	
Steam Turbine-Roof 01	Leq,D	99.7	30	286.74	-60.1	4.4	-20.9	-2.2	-0.35	0.0	3.7	0.0	0.0	24.2	
Tank Farm Pump 1	Leq,D	99.0	3	488.82	-64.8	5.6	-16.1	-2.1		0.0	4.3	0.0	0.0	26.0	
Tank Farm Pump 2	Leq,D	99.0	3	510.10	-65.1	5.6	-17.9	-2.1		0.0	6.0	0.0	0.0	25.4	
Tank Farm Pump 3	Leq,D	99.0	3	516.07	-65.2	5.6	-17.8	-2.1		0.0	8.2	0.0	0.0	27.6	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	45.67	-44.2	2.9	0.0	-0.7		0.0	0.0	-11.8	0.0	58.7	
XF-1502 Splitter Area 1	Leq,D	104.5		220.76	-57.9	3.0	-9.1	-0.9	-0.08	-3.2	0.7	0.0	0.0	37.0	
XF-1502 Splitter Area 2	Leq,D	104.5		221.29	-57.9	3.0	-12.0	-0.7	-0.02	-2.8	1.1	0.0	0.0	35.2	
XF-1504 Splitter Area 1	Leq,D	104.5		225.12	-58.0	3.0	-8.8	-0.9	-0.13	-3.3	0.7	0.0	0.0	37.0	
XF-1504 Splitter Area 2	Leq,D	104.5		225.65	-58.1	3.0	-11.8	-0.7	-0.02	-2.8	1.1	0.0	0.0	35.1	
XF 251, 250, 271, 270	Leq,D	101.1	128	415.26	-63.4	4.0	-3.6	-1.1	-0.56	-2.4	0.0	0.0	0.0	34.0	
XF 260, 261A, 261 B	Leq,D	99.9	97	367.73	-62.3	3.7	-1.4	-1.1	-0.87	-2.7	0.0	0.0	0.0	35.2	
XF 304, XF 321	Leq,D	110.5	56	152.74	-54.7	3.0	-2.3	-0.6	-0.24	-2.7	0.2	0.0	0.0	53.2	
XF 313, XF 314	Leq,D	113.0	18	155.50	-54.8	3.0	-4.7	-0.5	-0.03	-3.4	0.9	0.0	0.0	53.4	
XF 335-1, XF 335-2	Leq,D	113.4	54	153.31	-54.7	3.0	-0.7	-0.9	-0.29	-3.2	0.3	0.0	0.0	56.9	
XF 353A/B	Leq,D	95.4	35	497.91	-64.9	4.3	-3.4	-1.3	-0.27	-2.4	0.0	0.0	0.0	27.5	
XF 353A/B	Leq,D	95.4	35	478.34	-64.6	4.2	-8.4	-0.7	0.00	-1.6	0.0	0.0	0.0	24.4	
XF 354A/B	Leq,D	95.4	35	481.08	-64.6	4.3	-1.6	-1.3	-0.45	-2.5	0.0	0.0	0.0	29.2	
XF 503	Leq,D	113.0	21	178.38	-56.0	3.0	-8.8	-0.8	-0.32	-3.2	0.6	0.0	0.0	47.5	
XF - 1601	Leq,D	96.6		241.24	-58.6	3.0	-7.9	-0.4		-1.1	0.2	0.0	0.0	31.8	
XF - 1602	Leq,D	96.6		247.07	-58.8	3.0	-7.9	-0.4		-1.1	0.2	0.0	0.0	31.6	
XF Module 1510	Leq,D	108.3		216.13	-57.7	3.0	-11.2	-0.7	-0.09	-2.8	0.9	0.0	0.0	39.7	
XF Module 1519	Leq,D	109.0		215.27	-57.7	3.0	-12.0	-0.7	-0.04	-2.8	1.0	0.0	0.0	39.9	
xxxx xxxx xxxx xxxx	Leq,D		228								11.0			16.5	
xxxx xxxx xxxx xxxx	Leq,D		520								7.6			21.9	
xxxx xxxx xxxx xxxx	Leq,D		1341								8.3			32.3	
xxxx xxxx xxxx xxxx	Leq,D		450								10.6			20.5	
Receiver W-2 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 65.1 dB(A) Ld 7-19 dB(A) Leq,N 65.1 dB(A) Le 19-22 dB(A) CNEL 71.7 dB(A) Lmax day hr dB(A) Ld 7-19															
ID Fan Motor	Leq,D	104.4	2	396.98	-63.0	5.3	-16.7	-1.6		0.0	0.1	0.0	0.0	28.4	
18-1855 A/B	Leq,D	98.8		428.59	-63.6	5.6	-17.4	-1.2	-1.08	0.0	0.0	0.0	0.0	21.0	
18-1856 A/B	Leq,D	98.8		434.75	-63.8	5.6	-16.0	-1.3	-1.07	0.0	0.0	0.0	0.0	22.3	
18-1857 A/B	Leq,D	98.8		422.64	-63.5	5.6	-12.1	-1.3	-1.08	0.0	0.0	0.0	0.0	26.3	
18-1858 A/B	Leq,D	98.8		418.59	-63.4	5.4	-11.6	-1.3	-1.08	0.0	0.0	0.0	0.0	26.8	
18-PK 1802 Air Compressor Package	Leq,D	103.1		447.28	-64.0	5.7	-8.9	-0.7	-1.16	0.0	0.0	0.0	0.0	34.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	286.98	-60.1	4.9	-11.4	-1.3	-0.28	0.0	1.5	-2.7	0.0	39.6	
Air Compressor C 1	Leq,D	110.0	5	186.48	-56.4	5.1	-18.7	-0.4	-0.41	0.0	2.5	0.0	0.0	41.7	
Air Compressor Pump	Leq,D	100.3		371.08	-62.4	5.4	-20.5	-1.9	-0.75	0.0	0.0	0.0	0.0	20.1	
Blower F 401	Leq,D	113.0		262.47	-59.4	4.9	-10.5	-0.3	-0.94	0.0	0.0	0.0	0.0	46.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	561.52	-66.0	5.5	-21.5	-1.4	-0.59	0.0	0.0	0.0	0.0	14.7	
Boiler Feed Water Pump A	Leq,D	97.1	3	423.34	-63.5	5.5	-11.6	-1.3	-1.02	0.0	0.0	0.0	0.0	25.0	
Boiler Feed Water Pump B	Leq,D	97.1	3	424.96	-63.6	5.5	-4.6	-1.8	-1.01	0.0	0.0	0.0	0.0	31.6	
C370 A Motor	Leq,D	103.6	3	347.19	-61.8	4.8	-13.9	-1.1		0.0	0.0	0.0	0.0	31.6	
C370 B Motor	Leq,D	108.6	3	356.49	-62.0	4.8	-7.8	-1.3	-0.98	0.0	0.0	0.0	0.0	41.2	
C370A	Leq,D	103.8	5	345.14	-61.8	4.8	-8.8	-1.2	-0.98	0.0	0.0	0.0	0.0	35.8	
C370B	Leq,D	103.8	5	354.50	-62.0	4.8	-3.4	-1.8	-0.98	0.0	0.0	0.0	0.0	40.5	
C-270 A	Leq,D	106.3	6	502.56	-65.0	5.2	-7.0	-2.4	-1.51	0.0	0.1	0.0	0.0	35.7	
C-270 B	Leq,D	106.3	6	498.53	-64.9	5.2	-4.5	-2.7	-1.68	0.0	0.1	0.0	0.0	37.7	
C-270 C	Leq,D	106.3	6	494.54	-64.9	5.2	-6.1	-2.6	-1.71	0.0	0.1	0.0	0.0	36.3	
C-301 Compressor	Leq,D	106.8	3	502.82	-65.0	5.2	-12.7	-1.5	-0.24	0.0	0.0	0.0	0.0	32.6	
C-301 Motor	Leq,D	106.8	4	499.55	-65.0	5.2	-11.5	-2.0	-0.28	0.0	0.0	0.0	0.0	33.2	
C-351 Compressor	Leq,D	106.8	4	514.89	-65.2	5.2	-9.6	-1.7	-0.77	0.0	0.0	0.0	0.0	34.7	
C-351 Motor	Leq,D	106.8	5	517.46	-65.3	5.1	-11.3	-2.1	-0.98	0.0	0.0	0.0	0.0	32.2	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	271.27	-59.7	5.1	-9.6	-0.5	-0.26	0.0	0.0	-33.5	0.0	36.3	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	212.24	-57.5	4.2	-19.9	-0.5		-7.7	0.0	0.0	0.0	23.3	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	211.54	-57.5	4.2	-18.7	-0.7	-0.16	0.0	0.0	0.0	0.0	27.7	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	201.09	-57.1	4.1	-5.9	-0.7	-0.04	2.4	0.1	0.0	0.0	49.5	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	207.19	-57.3	4.1	-20.9	-0.6		-7.7	0.0	0.0	0.0	28.3	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	211.96	-57.5	4.2	-19.8	-0.5	-0.02	-7.7	0.0	0.0	0.0	22.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	196.89	-56.9	4.0	-11.3	-0.8		2.6	0.8	0.0	0.0	38.9	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	267.21	-59.5	4.7	-19.3	-0.8	-0.49	-7.8	7.2	0.0	0.0	21.8	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	257.01	-59.2	4.5	-3.9	-1.4	-0.67	1.7	0.0	0.0	0.0	38.8	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	288.80	-60.2	4.3	-18.4	-0.8	-0.82	-7.8	10.9	0.0	0.0	27.7	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	273.49	-59.7	4.4	-10.6	-0.8	-0.15	1.5	0.0	0.0	0.0	35.3
Cooling Tower M 512	Leq,D	95.7		265.67	-59.5	5.1	-12.2	-1.0	-0.75	0.0	0.2	0.0	0.0	27.6
Cooling Tower M 513	Leq,D	95.7		264.57	-59.4	5.1	-3.3	-1.2	-0.73	0.0	0.0	0.0	0.0	36.1
Cooling Tower M 514	Leq,D	95.7		266.98	-59.5	5.1	-14.5	-1.0	-0.75	0.0	0.7	0.0	0.0	25.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	404.02	-63.1	4.2	-6.1	-0.8	-0.11	-2.0	0.0	0.0	0.0	27.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	383.07	-62.7	5.1	-12.9	-0.1		0.0	0.1	0.0	0.0	24.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	381.16	-62.6	5.1	-7.9	-0.1		0.0	0.0	0.0	0.0	27.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	381.86	-62.6	4.6	-8.7	-0.1		0.0	0.9	0.0	0.0	27.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	382.51	-62.6	5.1	-9.8	-0.1		0.0	0.0	0.0	0.0	25.7
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	380.60	-62.6	5.1	-7.8	-0.1		0.0	0.8	0.0	0.0	30.7
FD Motor	Leq,D	103.3	2	384.16	-62.7	5.2	-22.6	-2.4		0.0	0.1	0.0	0.0	20.9
Feed Compressor -B Motor	Leq,D	103.8	5	389.60	-62.8	4.9	-2.4	-3.0	-1.04	0.0	0.0	0.0	0.0	39.5
Feed Compressor-A Compressor	Leq,D	104.0	5	374.42	-62.5	5.0	-5.4	-1.8	-0.98	0.0	0.3	0.0	0.0	38.6
Feed Compressor-A Motor	Leq,D	103.8	6	377.06	-62.5	4.9	-14.5	-1.7	-1.10	0.0	1.0	0.0	0.0	29.8
Feed Compressor-B Compressor	Leq,D	104.0	7	386.82	-62.7	5.0	-3.6	-1.9	-0.05	0.0	0.0	0.0	0.0	40.7
H2S Compressor 18-C-271	Leq,D	105.3	6	204.71	-57.2	4.5	-3.8	-1.3	-0.45	0.0	0.9	0.0	0.0	48.0
Heater # 5-Heater	Leq,D	91.1	13	557.85	-65.9	5.5	-21.8	-1.3	-0.67	0.0	0.0	0.0	0.0	9.9
Heater # 5-Heater	Leq,D	91.1	13	553.77	-65.9	5.5	-22.6	-1.5	-0.55	0.0	0.0	0.0	0.0	9.0
Heater # 5-Heater	Leq,D	91.1	13	561.85	-66.0	5.5	-21.2	-1.3	-1.09	0.0	0.5	0.0	0.0	10.6
Hydro Heater H-402	Leq,D	98.1		244.17	-58.7	5.0	-15.7	-0.5	-0.30	0.0	0.1	0.0	0.0	28.0
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	398.62	-63.0	5.3	-14.5	-0.1		0.0	0.0	0.0	0.0	14.7
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	399.44	-63.0	5.3	-14.4	-0.1		0.0	0.0	0.0	0.0	15.0
ID Fan-ID Fan - North	Leq,D	92.2	8	397.15	-63.0	5.3	-11.5	-0.1		0.0	0.0	0.0	0.0	23.0
ID Fan-ID Fan - North 2	Leq,D	91.4	7	399.85	-63.0	5.3	-13.3	-0.1		0.0	0.0	0.0	0.0	20.2
ID Fan-ID Fan - South	Leq,D	92.3	9	398.22	-63.0	5.3	-16.7	-0.1		0.0	0.0	0.0	0.0	17.8
ID Fan-ID Fan - South 2	Leq,D	91.4	7	400.37	-63.0	5.3	-12.1	-0.1		0.0	0.0	0.0	0.0	21.4
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	398.33	-63.0	4.9	-12.2	-0.1		0.0	0.0	0.0	0.0	23.6
Motor & Pump P 56A/B	Leq,D	93.7		227.98	-58.2	5.0	-3.0	-1.7	-0.58	0.0	1.0	0.0	0.0	36.3
Motor & Pump P 120/121	Leq,D	96.2	2	192.71	-56.7	5.0	-5.1	-0.8	-0.14	0.0	0.0	0.0	0.0	38.4
Motor & Pump P 211/212	Leq,D	93.7		229.90	-58.2	5.1	-20.2	-1.1	-0.23	0.0	0.0	0.0	0.0	19.0
Motor & Pump P 215/214	Leq,D	94.6		226.07	-58.1	5.1	-20.3	-1.1	-0.23	0.0	0.1	0.0	0.0	20.1
Motor & Pump P 216	Leq,D	98.3		224.97	-58.0	5.0	-20.9	-1.1	-0.17	0.0	0.0	0.0	0.0	23.1
Motor & Pump P 217/218	Leq,D	93.7		228.38	-58.2	5.4	-21.1	-1.2	-0.23	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 300	Leq,D	97.1	2	181.23	-56.2	4.9	-4.1	-1.1	-0.44	0.0	1.1	0.0	0.0	41.3
Motor & Pump P 301	Leq,D	102.1	2	182.08	-56.2	4.9	-4.1	-1.1	-0.45	0.0	1.0	0.0	0.0	46.2
Motor & Pump P 302	Leq,D	97.1	2	180.35	-56.1	4.9	-4.1	-1.1	-0.44	0.0	0.3	0.0	0.0	40.6
Motor & Pump P 303	Leq,D	97.1	2	179.54	-56.1	4.9	-4.5	-0.9	-0.34	0.0	0.0	0.0	0.0	40.2
Motor & Pump P 305	Leq,D	97.5	2	178.82	-56.0	4.9	-6.8	-0.7	-0.32	0.0	0.5	0.0	0.0	39.0
Motor & Pump P 306	Leq,D	112.6	4	174.74	-55.8	4.6	-2.4	-2.4	-0.44	0.0	0.0	0.0	0.0	56.2
Motor & Pump P 307	Leq,D	102.1	2	184.59	-56.3	5.0	-6.1	-0.7	-0.43	0.0	0.0	0.0	0.0	43.5
Motor & Pump P 309	Leq,D	97.5	2	178.12	-56.0	4.9	-7.1	-0.6	-0.32	0.0	4.3	0.0	0.0	42.6
Motor & Pump P 312	Leq,D	101.5	2	197.05	-56.9	5.2	-3.2	-0.8	-0.50	0.0	0.7	0.0	0.0	46.0
Motor & Pump P 313	Leq,D	101.5	2	198.13	-56.9	5.2	-4.4	-0.8	-0.50	0.0	0.9	0.0	0.0	45.0
Motor & Pump P 315	Leq,D	102.9	2	201.95	-57.1	5.1	-16.3	-0.7	-0.17	0.0	7.0	0.0	0.0	40.8
Motor & Pump P 316	Leq,D	102.9	2	203.21	-57.2	5.1	-9.4	-0.7	-0.50	0.0	2.9	0.0	0.0	43.1
Motor & Pump P 317	Leq,D	102.9	2	204.55	-57.2	5.0	-14.5	-0.6	-0.54	0.0	6.3	0.0	0.0	41.3
Motor & Pump P 318	Leq,D	100.2	1	201.09	-57.1	5.3	-12.9	-0.7	-0.16	0.0	4.2	0.0	0.0	38.9
Motor & Pump P 319	Leq,D	100.2	1	200.17	-57.0	5.3	-8.7	-0.8	-0.15	0.0	2.0	0.0	0.0	40.8
Motor & Pump P 327	Leq,D	111.2	3	170.84	-55.6	4.8	-3.8	-1.6	-0.14	0.0	2.0	0.0	0.0	56.9
Motor & Pump P 328	Leq,D	109.9	5	177.40	-56.0	4.6	-4.2	-1.0	-0.37	0.0	3.3	0.0	0.0	56.3
Motor & Pump P 329	Leq,D	110.2	5	176.08	-55.9	4.6	-3.1	-1.1	-0.41	0.0	2.8	0.0	0.0	57.1
Motor & Pump P 451	Leq,D	93.7		249.45	-58.9	5.1	-10.5	-1.2	-1.23	0.0	3.7	0.0	0.0	30.6
Motor & Pump P 453	Leq,D	93.7		259.21	-59.3	5.1	-6.6	-1.6	-1.33	0.0	0.3	0.0	0.0	30.3
Motor & Pump P 454	Leq,D	93.7		248.03	-58.9	5.1	-10.7	-1.2	-1.26	0.0	3.8	0.0	0.0	30.5
Motor & Pump P 457	Leq,D	93.7		260.23	-59.3	5.1	-6.7	-1.6	-1.29	0.0	0.3	0.0	0.0	30.2
Motor & Pump P 458	Leq,D	93.7		250.33	-59.0	5.1	-10.2	-1.2	-1.20	0.0	3.2	0.0	0.0	30.4
Motor & Pump P 459	Leq,D	93.7		247.39	-58.9	5.1	-10.5	-1.2	-1.22	0.0	0.2	0.0	0.0	27.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		243.94	-58.7	5.1	-10.5	-1.2	-0.26	0.0	0.0	0.0	0.0	30.6
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		243.04	-58.7	5.1	-12.6	-1.1	-0.26	0.0	0.0	0.0	0.0	28.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		235.26	-58.4	5.1	-13.9	-0.9	-0.39	0.0	1.0	0.0	0.0	27.9
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		234.79	-58.4	5.1	-9.8	-1.0	-0.34	0.0	0.4	0.0	0.0	31.3
Motor & Pump P 1601 A	Leq,D	96.3	2	267.95	-59.6	5.0	-4.4	-1.7	-1.01	0.0	0.1	0.0	0.0	34.7
Motor & Pump P 1601 B	Leq,D	96.3	2	269.30	-59.6	5.0	-3.9	-1.9	-0.82	0.0	0.1	0.0	0.0	35.2
Motor & Pump P 1602 A	Leq,D	96.3	2	270.43	-59.6	5.0	-4.0	-1.9	-0.70	0.0	0.1	0.0	0.0	35.2
Motor & Pump P 1602 B	Leq,D	96.5	2	271.74	-59.7	5.0	-3.9	-1.9	-0.57	0.0	0.2	0.0	0.0	35.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	251.54	-59.0	5.2	-12.0	-1.2	-0.43	0.0	0.0	0.0	0.0	29.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	249.00	-58.9	5.2	-12.4	-1.1	-0.85	0.0	0.0	0.0	0.0	28.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	247.77	-58.9	5.2	-11.3	-1.1	-0.85	0.0	0.0	0.0	0.0	29.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	242.74	-58.7	5.1	-13.9	-1.1	-0.26	0.0	0.0	0.0	0.0	27.9
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	241.80	-58.7	5.1	-12.3	-1.1	-0.37	0.0	0.0	0.0	0.0	29.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	251.25	-59.0	5.2	-6.9	-1.4	-0.73	0.0	0.0	0.0	0.0	33.4
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	249.22	-58.9	5.2	-6.2	-1.5	-0.77	0.0	0.0	0.0	0.0	34.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	245.71	-58.8	5.2	-4.2	-1.8	-0.39	0.0	0.0	0.0	0.0	36.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	247.28	-58.9	5.2	-5.1	-1.6	-0.52	0.0	0.0	0.0	0.0	35.5
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	209.88	-57.4	4.6	-7.5	-0.9	0.00	0.0	1.1	0.0	0.0	44.0
P-2 A/B	Leq,D	98.5		615.07	-66.8	5.8	-23.1	-2.1		0.0	3.7	0.0	0.0	16.0
P-50 A/B	Leq,D	98.1		571.38	-66.1	5.8	-6.0	-2.2	-2.34	0.0	0.0	0.0	0.0	27.2
P-51 A/B	Leq,D	98.1		573.42	-66.2	5.8	-24.1	-2.3	-0.23	0.0	0.0	0.0	0.0	11.1
P-060 A/B	Leq,D	98.1		566.22	-66.1	5.8	-5.7	-2.2	-1.88	0.0	0.0	0.0	0.0	28.0
P-63	Leq,D	98.5		592.84	-66.5	5.8	-17.9	-1.7	-2.26	0.0	0.0	0.0	0.0	16.0
P-70 A/B	Leq,D	98.1		568.49	-66.1	5.8	-23.8	-2.1	-1.52	0.0	0.0	0.0	0.0	10.4
P-73 A/B	Leq,D	98.5		611.14	-66.7	5.8	-23.5	-2.2		0.0	2.2	0.0	0.0	14.0
P-251 A/B	Leq,D	98.2		443.97	-63.9	5.7	-10.8	-1.4	-1.55	0.0	0.0	0.0	0.0	26.2
P-252 A/B	Leq,D	98.2		440.70	-63.9	5.7	-10.8	-1.4	-1.14	0.0	0.0	0.0	0.0	26.7
P-253	Leq,D	98.2		447.22	-64.0	5.7	-10.5	-1.4	-1.13	0.0	0.0	0.0	0.0	26.9
P-254 A/B	Leq,D	98.2		453.40	-64.1	5.7	-7.4	-1.5	-1.55	0.0	0.0	0.0	0.0	29.3
P-255 A/B	Leq,D	98.2		450.51	-64.1	5.7	-7.7	-1.5	-1.55	0.0	0.0	0.0	0.0	29.1
P-255 A/B	Leq,D	98.2		437.88	-63.8	5.7	-14.1	-1.3	-1.55	0.0	0.0	0.0	0.0	23.1
P-256 A/B	Leq,D	98.2		446.79	-64.0	5.7	-10.7	-1.4	-1.55	0.0	0.0	0.0	0.0	26.2
P-259 A/B	Leq,D	98.2		441.01	-63.9	5.7	-13.9	-1.3	-1.56	0.0	0.0	0.0	0.0	23.3
P-260	Leq,D	99.1		424.27	-63.5	5.7	-12.1	-1.3	-1.14	0.0	0.0	0.0	0.0	26.7
P-261 A/B	Leq,D	98.0		404.81	-63.1	5.7	-21.0	-1.3	-0.14	0.0	0.0	0.0	0.0	18.2
P-262 A/B	Leq,D	99.1		417.16	-63.4	5.7	-18.6	-1.2	-0.34	0.0	0.0	0.0	0.0	21.3
P-263 A/B	Leq,D	99.4		420.44	-63.5	5.7	-15.4	-1.2	-1.14	0.0	0.0	0.0	0.0	23.9
P-270 A/B	Leq,D	98.5		488.64	-64.8	5.8	-14.9	-1.4	-0.25	0.0	0.0	0.0	0.0	22.9
P-271 A/B	Leq,D	98.2		461.67	-64.3	5.7	-7.9	-1.6	-1.55	0.0	0.0	0.0	0.0	28.6
P-272 A/B	Leq,D	98.2		457.65	-64.2	5.7	-8.3	-1.5	-1.55	0.0	0.0	0.0	0.0	28.3
P-273 A/B	Leq,D	98.5		485.63	-64.7	5.8	-15.4	-1.4	-0.25	0.0	0.0	0.0	0.0	22.5
P-275 A/B/C	Leq,D	98.2		456.76	-64.2	5.7	-17.5	-1.3	-1.12	0.0	0.0	0.0	0.0	19.8
P-305	Leq,D	99.3		532.67	-65.5	5.8	-10.5	-1.7	-2.20	0.0	0.0	0.0	0.0	25.2
P-306	Leq,D	100.8		540.79	-65.7	5.8	-6.1	-2.1	-2.43	0.0	0.0	0.0	0.0	30.3
P-309	Leq,D	99.3		534.59	-65.6	5.8	-10.3	-1.7	-2.26	0.0	0.0	0.0	0.0	25.2
P-328	Leq,D	100.8		545.62	-65.7	5.8	-4.8	-2.4	-2.57	0.0	0.0	0.0	0.0	31.1
P-329	Leq,D	100.8		543.19	-65.7	5.8	-4.8	-2.4	-2.49	0.0	0.0	0.0	0.0	31.3
P-353	Leq,D	98.5		526.28	-65.4	5.6	-4.1	-2.1	-2.22	0.0	0.0	0.0	0.0	30.3
P-358 A/B	Leq,D	99.4		529.63	-65.5	5.8	-13.8	-1.5	-1.11	0.0	0.0	0.0	0.0	23.3
P-359 A/B	Leq,D	99.4		532.22	-65.5	5.8	-20.6	-1.6	-2.05	0.0	0.0	0.0	0.0	15.4
P-360 A/B	Leq,D	99.4		537.25	-65.6	5.8	-15.7	-1.5	-2.40	0.0	0.0	0.0	0.0	20.0
P-361A	Leq,D	98.1		555.86	-65.9	5.6	-6.6	-1.8	-0.23	0.0	0.0	0.0	0.0	29.2
P-371 A/B	Leq,D	98.0		307.08	-60.7	5.3	-14.1	-0.9	-0.77	0.0	0.0	0.0	0.0	26.8
P-373 A/B	Leq,D	98.0		322.64	-61.2	5.4	-14.7	-0.9		0.0	0.0	0.0	0.0	26.6
P-374 A/B	Leq,D	98.0		319.38	-61.1	5.4	-11.6	-1.0		0.0	0.0	0.0	0.0	29.7
P-375 A/B	Leq,D	98.0		311.97	-60.9	5.3	-14.9	-1.0	-0.76	0.0	0.0	0.0	0.0	25.8
P-376	Leq,D	98.0		317.32	-61.0	5.3	-16.3	-1.0		0.0	0.0	0.0	0.0	25.0
P-376 A/B	Leq,D	98.0		326.09	-61.3	5.4	-15.5	-0.9		0.0	0.0	0.0	0.0	25.7
P-377	Leq,D	98.0		315.37	-61.0	5.3	-16.1	-1.0		0.0	0.0	0.0	0.0	25.4
P-1101 A	Leq,D	98.9		597.56	-66.5	5.7	-17.0	-1.7	-0.39	0.0	0.0	0.0	0.0	19.0
P-1103	Leq,D	98.9		596.23	-66.5	5.7	-17.1	-1.7	-0.41	0.0	0.0	0.0	0.0	18.9
P-1105 A/B/C	Leq,D	98.9		602.42	-66.6	5.7	-15.2	-1.7	-0.35	0.0	0.0	0.0	0.0	20.7
P-1800	Leq,D	98.9		645.87	-67.2	5.8	-20.8	-1.8	-0.03	0.0	2.8	0.0	0.0	17.7
P-1801	Leq,D	98.9		687.18	-67.7	5.8	-24.9	-2.8		0.0	14.5	0.0	0.0	23.7
P-1802	Leq,D	98.9		685.92	-67.7	5.8	-24.9	-2.8		0.0	14.5	0.0	0.0	23.8
P-1803	Leq,D	99.1		560.65	-66.0	5.8	-24.5	-2.2	-0.03	0.0	0.0	0.0	0.0	12.2
P-1804	Leq,D	99.1		579.31	-66.3	5.8	-4.9	-2.4	-1.22	0.0	0.0	0.0	0.0	30.0
P-1805	Leq,D	99.1		582.13	-66.3	5.8	-9.2	-1.9	-0.39	0.0	0.0	0.0	0.0	27.1
P-1806	Leq,D	99.1		538.89	-65.6	5.8	-7.4	-1.8		0.0	0.0	0.0	0.0	30.1
P-1809 A	Leq,D	98.9		653.81	-67.3	5.8	-16.8	-1.8		0.0	3.4	0.0	0.0	22.2
P-1810 A/B/C	Leq,D	99.0		579.27	-66.2	5.8	-24.8	-2.4		0.0	3.6	0.0	0.0	14.9
P-1811 A/B	Leq,D	99.1		545.10	-65.7	5.8	-3.8	-2.2	-1.02	0.0	0.0	0.0	0.0	32.2
P-1811 A/B	Leq,D	99.1		585.66	-66.3	5.8	-9.1	-1.9	-0.31	0.0	0.0	0.0	0.0	27.3
P-1847 A/B	Leq,D	99.4		526.83	-65.4	5.8	-18.6	-1.5		0.0	0.0	0.0	0.0	19.7
P-1849 A/B	Leq,D	99.4		533.10	-65.5	5.8	-18.7	-1.5		0.0	0.0	0.0	0.0	19.5
P-1853	Leq,D	99.1		486.58	-64.7	5.8	-16.0	-1.3	-0.32	0.0	0.0	0.0	0.0	22.5
Piping Furnace Tanks	Leq,D	87.1	72	357.30	-62.1	4.0	-11.6	-6.4	-0.16	0.0	1.3	0.0	0.0	12.2
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	352.99	-61.9	4.2	-8.0	-7.2	-0.43	0.0	0.5	0.0	0.0	25.5

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	314.64	-60.9	4.6	-20.5	-2.0	-0.67	0.0	1.1	0.0	0.0	36.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	317.58	-61.0	4.6	-21.4	-4.6	-0.67	0.0	0.4	0.0	0.0	32.5
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	620.23	-66.8	4.8	-23.5	-2.3		0.0	0.2	0.0	0.0	22.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	591.32	-66.4	4.7	-9.0	-2.0		0.0	0.3	0.0	0.0	38.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	567.92	-66.1	4.7	-11.5	-1.8		0.0	0.0	0.0	0.0	29.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	604.73	-66.6	4.7	-20.6	-2.0		0.0	0.3	0.0	0.0	27.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	573.74	-66.2	4.7	-19.0	-1.8		0.0	0.1	0.0	0.0	21.8
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	570.87	-66.1	4.7	-14.8	-1.7		0.0	0.5	0.0	0.0	26.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	566.55	-66.1	4.7	-12.7	-1.6		0.0	0.0	0.0	0.0	31.0
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	580.66	-66.3	4.7	-16.2	-1.8		0.0	0.1	0.0	0.0	26.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	595.84	-66.5	3.6	-10.0	-2.1		0.0	0.2	0.0	0.0	38.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	331.90	-61.4	3.2	-3.1	-2.9	-0.02	0.0	0.3	0.0	0.0	16.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	312.08	-60.9	4.6	-20.1	-2.0	-0.72	0.0	1.2	0.0	0.0	38.6
Reformer-Burner Reformer East	Leq,D	97.3	269	364.65	-62.2	3.5	-4.1	-1.9		0.0	0.0	0.0	0.0	35.6
Reformer-Burner Reformer North	Leq,D	95.9	192	358.14	-62.1	3.5	-5.4	-1.8		0.0	0.0	0.0	0.0	30.0
Reformer-Burner Reformer South	Leq,D	95.8	191	376.04	-62.5	3.4	-21.9	-1.7		0.0	2.3	0.0	0.0	18.5
Reformer-Burner Reformer West	Leq,D	97.3	268	369.26	-62.3	3.1	-18.2	-1.4		0.0	1.0	0.0	0.0	22.5
RFG A from battery to process	Leq,D	99.4	87	357.81	-62.1	4.2	-9.2	-6.9	-0.53	0.0	0.5	0.0	0.0	25.4
RFG A from battery to process w NC	Leq,D	115.2	42	316.44	-61.0	4.6	-23.6	-5.7	-0.53	0.0	1.8	0.0	0.0	30.7
Stack Noise	Leq,D	108.4		404.23	-63.1	3.0	-1.5	-2.9		-7.1	0.0	0.0	0.0	36.7
Steam Turbine-Facade 01	Leq,D	99.6	29	316.57	-61.0	5.1	-18.5	-2.6	-0.45	0.0	0.0	0.0	0.0	22.1
Steam Turbine-Facade 02	Leq,D	96.2	13	319.31	-61.1	5.1	-22.4	-3.1	-0.71	0.0	0.0	0.0	0.0	14.1
Steam Turbine-Facade 03	Leq,D	99.6	29	314.87	-61.0	5.1	-17.8	-2.4	-0.61	0.0	0.0	0.0	0.0	22.9
Steam Turbine-Facade 04	Leq,D	96.2	13	312.17	-60.9	5.1	-10.2	-3.1	-0.26	0.0	0.0	0.0	0.0	26.9
Steam Turbine-Roof 01	Leq,D	99.7	30	315.73	-61.0	4.6	-17.5	-2.7	-0.72	0.0	0.1	0.0	0.0	22.5
Tank Farm Pump 1	Leq,D	99.0	3	508.04	-65.1	5.6	-21.1	-2.1		0.0	0.0	0.0	0.0	16.3
Tank Farm Pump 2	Leq,D	99.0	3	528.46	-65.5	5.6	-19.9	-2.1		0.0	1.9	0.0	0.0	19.1
Tank Farm Pump 3	Leq,D	99.0	3	534.24	-65.5	5.6	-19.4	-2.1		0.0	1.9	0.0	0.0	19.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	150.92	-54.6	2.8	-4.7	-1.9	-0.01	0.0	0.8	-11.8	0.0	43.0
XF-1502 Splitter Area 1	Leq,D	104.5		249.14	-58.9	3.0	-0.6	-1.9	-0.83	-4.5	0.0	0.0	0.0	40.8
XF-1502 Splitter Area 2	Leq,D	104.5		250.98	-59.0	3.0	-4.0	-2.0	-0.84	-4.2	0.0	0.0	0.0	37.5
XF-1504 Splitter Area 1	Leq,D	104.5		253.00	-59.1	3.0	-3.5	-1.4	-0.09	-3.9	0.0	0.0	0.0	39.6
XF-1504 Splitter Area 2	Leq,D	104.5		254.81	-59.1	3.0	-1.1	-2.1	-0.93	-4.5	0.0	0.0	0.0	39.8
XF 251, 250, 271, 270	Leq,D	101.1	128	458.83	-64.2	4.2	-3.3	-1.1	-0.39	-2.3	0.0	0.0	0.0	34.0
XF 260, 261A, 261 B	Leq,D	99.9	97	416.47	-63.4	4.0	-11.9	-0.6	0.00	-1.5	0.0	0.0	0.0	26.5
XF 304, XF 321	Leq,D	110.5	56	177.63	-56.0	3.0	-5.2	-0.5	-0.13	-2.3	0.2	0.0	0.0	49.5
XF 313, XF 314	Leq,D	113.0	18	163.70	-55.3	3.0	-4.3	-0.6		-3.6	0.2	0.0	0.0	52.4
XF 335-1, XF 335-2	Leq,D	113.4	54	171.68	-55.7	3.0	-3.3	-0.9	-0.23	-3.1	0.3	0.0	0.0	53.5
XF 353A/B	Leq,D	95.4	35	540.11	-65.6	4.5	-6.1	-0.9	-0.01	-1.9	0.0	0.0	0.0	25.3
XF 353A/B	Leq,D	95.4	35	518.35	-65.3	4.4	-6.4	-0.8		-1.8	0.0	0.0	0.0	25.5
XF 354A/B	Leq,D	95.4	35	528.60	-65.5	4.4	-2.2	-1.6	-0.42	-2.6	0.0	0.0	0.0	27.5
XF 503	Leq,D	113.0	21	222.23	-57.9	3.0	-4.1	-2.4	-0.76	-3.7	0.0	0.0	0.0	47.2
XF - 1601	Leq,D	96.6		270.82	-59.6	3.0	-0.3	-0.9		-2.7	0.0	0.0	0.0	36.0
XF - 1602	Leq,D	96.6		276.00	-59.8	3.0	-2.2	-0.7		-2.1	0.0	0.0	0.0	34.7
XF Module 1510	Leq,D	108.3		247.87	-58.9	3.0	-4.2	-1.3	-0.05	-3.8	0.0	0.0	0.0	43.1
XF Module 1519	Leq,D	109.0		245.13	-58.8	3.0	-3.4	-2.1	-0.71	-4.3	0.0	0.0	0.0	42.7
xxxx xxxx xxxx xxxx	Leq,D		228								7.1			9.4
xxxx xxxx xxxx xxxx	Leq,D		520								7.2			27.3
xxxx xxxx xxxx xxxx	Leq,D		1341								5.2			28.1
xxxx xxxx xxxx xxxx	Leq,D		450								5.9			14.4
Receiver W-3 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 60.4 dB(A) Ld 7-19 dB(A) Leq,N 60.4 dB(A) Le 19-22 dB(A) CNEL 67.0 dB(A) Lmax day hr dB(A) Ld 7-19														
ID Fan Motor	Leq,D	104.4	2	437.82	-63.8	5.3	-20.0	-1.8		0.0	1.3	0.0	0.0	25.3
18-1855 A/B	Leq,D	98.8		484.85	-64.7	5.6	-19.8	-1.4		0.0	0.0	0.0	0.0	18.5
18-1856 A/B	Leq,D	98.8		490.30	-64.8	5.6	-18.0	-1.4		0.0	0.0	0.0	0.0	20.3
18-1857 A/B	Leq,D	98.8		479.59	-64.6	5.6	-13.4	-1.4		0.0	0.1	0.0	0.0	25.0
18-1858 A/B	Leq,D	98.8		476.05	-64.5	5.5	-12.7	-1.4	-0.04	0.0	0.1	0.0	0.0	25.7
18-PK 1802 Air Compressor Package	Leq,D	103.1		503.90	-65.0	5.8	-12.2	-0.7		0.0	0.1	0.0	0.0	31.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	387.42	-62.8	5.3	-6.7	-2.7	-0.30	0.0	0.2	-2.7	0.0	39.3
Air Compressor C 1	Leq,D	110.0	5	244.93	-58.8	5.3	-20.7	-0.6	-0.01	0.0	5.2	0.0	0.0	40.3
Air Compressor Pump	Leq,D	100.3		437.29	-63.8	5.5	-19.4	-2.0	-0.59	0.0	0.0	0.0	0.0	20.0
Blower F 401	Leq,D	113.0		341.05	-61.6	5.2	-11.3	-0.4	-1.36	0.0	0.0	0.0	0.0	43.4
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	626.37	-66.9	5.6	-15.8	-1.1	-0.25	0.0	0.0	0.0	0.0	20.1
Boiler Feed Water Pump A	Leq,D	97.1	3	475.15	-64.5	5.5	-21.2	-1.5		0.0	1.6	0.0	0.0	16.9
Boiler Feed Water Pump B	Leq,D	97.1	3	477.30	-64.6	5.5	-20.8	-1.5		0.0	1.8	0.0	0.0	17.5

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
C370 A Motor	Leq,D	103.6	3	406.49	-63.2	4.9	-4.6	-2.4	-0.38	0.0	0.1	0.0	0.0	38.1
C370 B Motor	Leq,D	108.6	3	414.54	-63.3	5.0	-4.7	-2.4	-0.29	0.0	0.1	0.0	0.0	42.9
C370A	Leq,D	103.8	5	403.66	-63.1	5.0	-5.8	-2.1	-0.37	0.0	0.1	0.0	0.0	37.4
C370B	Leq,D	103.8	5	411.76	-63.3	5.0	-6.0	-2.1	-0.19	0.0	0.2	0.0	0.0	37.5
C-270 A	Leq,D	106.3	6	563.80	-66.0	5.3	-4.7	-3.0	-0.71	0.0	0.1	0.0	0.0	37.3
C-270 B	Leq,D	106.3	6	560.22	-66.0	5.3	-4.6	-3.0	-0.97	0.0	0.1	0.0	0.0	37.2
C-270 C	Leq,D	106.3	6	556.70	-65.9	5.3	-5.5	-2.9	-1.08	0.0	0.2	0.0	0.0	36.4
C-301 Compressor	Leq,D	106.8	3	559.66	-66.0	5.3	-7.6	-2.3	-0.20	0.0	0.3	0.0	0.0	36.4
C-301 Motor	Leq,D	106.8	4	556.71	-65.9	5.3	-5.8	-3.7	-0.21	0.0	0.6	0.0	0.0	37.2
C-351 Compressor	Leq,D	106.8	4	573.66	-66.2	5.3	-5.0	-3.0	-0.72	0.0	0.2	0.0	0.0	37.4
C-351 Motor	Leq,D	106.8	5	576.79	-66.2	5.2	-4.7	-4.2	-0.77	0.0	0.6	0.0	0.0	36.6
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	368.03	-62.3	5.4	-5.5	-0.8	-0.26	0.0	0.0	-33.5	0.0	37.8
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	290.36	-60.3	4.7	-17.4	-0.5	-0.16	-7.0	0.0	0.0	0.0	24.1
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	288.06	-60.2	4.6	-16.8	-0.8	-0.45	0.0	0.0	0.0	0.0	27.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	279.63	-59.9	4.6	-2.5	-1.6	-0.09	1.2	0.2	0.0	0.0	48.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	287.65	-60.2	4.6	-16.8	-0.6		-7.8	0.0	0.0	0.0	30.0
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	289.31	-60.2	4.6	-19.1	-0.6	-0.29	-7.8	0.0	0.0	0.0	20.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	278.49	-59.9	4.6	-3.5	-2.0		3.4	0.7	0.0	0.0	43.7
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	331.35	-61.4	4.9	-20.1	-0.9	-0.57	-7.6	3.5	0.0	0.0	15.6
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	323.24	-61.2	4.8	-8.9	-1.0	-0.81	2.7	0.1	0.0	0.0	33.5
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	349.22	-61.9	4.6	-21.1	-1.1	-0.38	-7.7	20.9	0.0	0.0	34.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	336.75	-61.5	4.7	-7.5	-1.3	-0.62	2.6	0.0	0.0	0.0	37.0
Cooling Tower M 512	Leq,D	95.7		332.10	-61.4	5.3	-21.0	-1.3	-0.77	0.0	1.5	0.0	0.0	18.1
Cooling Tower M 513	Leq,D	95.7		331.27	-61.4	5.3	-21.0	-1.3	-0.81	0.0	0.1	0.0	0.0	16.6
Cooling Tower M 514	Leq,D	95.7		333.19	-61.4	5.3	-21.2	-1.3	-0.74	0.0	1.4	0.0	0.0	17.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	452.25	-64.1	4.3	-9.6	-0.8		-1.9	0.0	0.0	0.0	23.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	423.47	-63.5	5.2	-13.9	-0.1		0.0	0.0	0.0	0.0	23.0
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	421.24	-63.5	5.2	-10.0	-0.1		0.0	0.6	0.0	0.0	25.3
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	422.36	-63.5	4.7	-6.9	-0.1		0.0	0.0	0.0	0.0	27.7
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	423.48	-63.5	5.1	-14.0	-0.1		0.0	0.0	0.0	0.0	20.7
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	421.25	-63.5	5.2	-7.5	-0.1		0.0	0.1	0.0	0.0	29.5
FD Motor	Leq,D	103.3	2	424.45	-63.5	5.3	-23.7	-2.8		0.0	1.3	0.0	0.0	19.8
Feed Compressor -B Motor	Leq,D	103.8	5	445.76	-64.0	5.0	-9.6	-2.1		0.0	1.2	0.0	0.0	34.4
Feed Compressor-A Compressor	Leq,D	104.0	5	431.25	-63.7	5.1	-7.0	-2.0	-0.08	0.0	0.2	0.0	0.0	36.5
Feed Compressor-A Motor	Leq,D	103.8	6	434.75	-63.8	5.0	-8.7	-2.4	-0.19	0.0	0.1	0.0	0.0	33.8
Feed Compressor-B Compressor	Leq,D	104.0	7	442.01	-63.9	5.1	-11.4	-1.5		0.0	0.5	0.0	0.0	32.9
H2S Compressor 18-C-271	Leq,D	105.3	6	272.26	-59.7	4.9	-15.6	-0.8	-0.43	0.0	1.7	0.0	0.0	35.4
Heater # 5-Heater	Leq,D	91.1	13	622.48	-66.9	5.6	-19.9	-1.3	-0.30	0.0	0.0	0.0	0.0	11.3
Heater # 5-Heater	Leq,D	91.1	13	618.83	-66.8	5.6	-18.9	-1.3	-0.15	0.0	0.0	0.0	0.0	12.5
Heater # 5-Heater	Leq,D	91.1	13	626.07	-66.9	5.6	-20.0	-1.3	-0.44	0.0	3.4	0.0	0.0	14.4
Hydro Heater H-402	Leq,D	98.1		315.33	-61.0	5.3	-8.5	-0.5	-0.43	0.0	0.0	0.0	0.0	33.0
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	439.74	-63.9	5.3	-13.2	-0.1		0.0	0.1	0.0	0.0	15.2
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	441.01	-63.9	5.3	-14.6	-0.1		0.0	0.0	0.0	0.0	14.0
ID Fan-ID Fan - North	Leq,D	92.2	8	438.31	-63.8	5.3	-9.5	-0.1		0.0	0.0	0.0	0.0	24.1
ID Fan-ID Fan - North 2	Leq,D	91.4	7	440.95	-63.9	5.3	-9.6	-0.1		0.0	0.0	0.0	0.0	23.2
ID Fan-ID Fan - South	Leq,D	92.3	9	440.02	-63.9	5.3	-15.3	-0.1		0.0	0.0	0.0	0.0	18.4
ID Fan-ID Fan - South 2	Leq,D	91.4	7	441.76	-63.9	5.3	-14.0	-0.1		0.0	0.0	0.0	0.0	18.7
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	439.76	-63.9	5.0	-9.2	-0.1		0.0	0.0	0.0	0.0	25.9
Motor & Pump P 56A/B	Leq,D	93.7		297.75	-60.5	5.2	-8.8	-1.4	-0.79	0.0	0.1	0.0	0.0	27.6
Motor & Pump P 120/121	Leq,D	96.2	2	254.77	-59.1	5.2	-13.3	-0.8	-0.33	0.0	3.4	0.0	0.0	31.3
Motor & Pump P 211/212	Leq,D	93.7		307.56	-60.8	5.3	-16.5	-1.4	-0.64	0.0	0.0	0.0	0.0	19.8
Motor & Pump P 215/214	Leq,D	94.6		303.04	-60.6	5.4	-11.0	-1.5	-0.72	0.0	0.0	0.0	0.0	26.1
Motor & Pump P 216	Leq,D	98.3		303.79	-60.6	5.2	-17.3	-1.2	-0.26	0.0	0.0	0.0	0.0	24.1
Motor & Pump P 217/218	Leq,D	93.7		305.81	-60.7	5.5	-15.5	-1.4	-0.67	0.0	0.0	0.0	0.0	21.0
Motor & Pump P 300	Leq,D	97.1	2	245.38	-58.8	5.2	-12.1	-0.7	-0.64	0.0	0.1	0.0	0.0	30.1
Motor & Pump P 301	Leq,D	102.1	2	246.69	-58.8	5.2	-15.0	-0.8	-0.52	0.0	1.2	0.0	0.0	33.4
Motor & Pump P 302	Leq,D	97.1	2	243.99	-58.7	5.2	-12.4	-0.7	-0.61	0.0	0.8	0.0	0.0	30.7
Motor & Pump P 303	Leq,D	97.1	2	242.78	-58.7	5.2	-11.7	-0.7	-0.57	0.0	3.4	0.0	0.0	33.9
Motor & Pump P 305	Leq,D	97.5	2	241.63	-58.7	5.2	-11.9	-0.7	-0.53	0.0	5.0	0.0	0.0	35.8
Motor & Pump P 306	Leq,D	112.6	4	234.79	-58.4	5.0	-10.1	-1.0	-0.31	0.0	1.9	0.0	0.0	49.7
Motor & Pump P 307	Leq,D	102.1	2	250.50	-59.0	5.2	-16.0	-0.8	-0.44	0.0	7.6	0.0	0.0	38.8
Motor & Pump P 309	Leq,D	97.5	2	240.49	-58.6	5.1	-12.2	-0.7	-0.49	0.0	6.5	0.0	0.0	37.2
Motor & Pump P 312	Leq,D	101.5	2	268.14	-59.6	5.4	-3.4	-1.1	-0.68	0.0	1.5	0.0	0.0	43.7
Motor & Pump P 313	Leq,D	101.5	2	269.60	-59.6	5.4	-4.2	-1.0	-0.69	0.0	1.8	0.0	0.0	43.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 315	Leq,D	102.9	2	274.78	-59.8	5.3	-3.2	-1.2	-0.69	0.0	1.0	0.0	0.0	44.3
Motor & Pump P 316	Leq,D	102.9	2	276.43	-59.8	5.3	-3.9	-1.3	-0.71	0.0	0.2	0.0	0.0	42.7
Motor & Pump P 317	Leq,D	102.9	2	278.14	-59.9	5.3	-4.1	-1.1	-0.65	0.0	0.2	0.0	0.0	42.6
Motor & Pump P 318	Leq,D	100.2	1	273.42	-59.7	5.5	-3.9	-1.0	-0.70	0.0	1.8	0.0	0.0	42.2
Motor & Pump P 319	Leq,D	100.2	1	272.20	-59.7	5.5	-4.4	-0.9	-0.70	0.0	2.0	0.0	0.0	41.9
Motor & Pump P 327	Leq,D	111.2	3	228.45	-58.2	5.1	-17.4	-1.1	-0.06	0.0	5.2	0.0	0.0	44.8
Motor & Pump P 328	Leq,D	109.9	5	239.22	-58.6	5.0	-11.0	-0.7	-0.42	0.0	4.4	0.0	0.0	48.7
Motor & Pump P 329	Leq,D	110.2	5	237.03	-58.5	5.0	-8.2	-0.9	-0.31	0.0	0.6	0.0	0.0	47.8
Motor & Pump P 451	Leq,D	93.7		321.57	-61.1	5.3	-13.3	-1.3	-0.54	0.0	0.0	0.0	0.0	22.7
Motor & Pump P 453	Leq,D	93.7		332.70	-61.4	5.3	-9.4	-1.6	-0.27	0.0	0.0	0.0	0.0	26.3
Motor & Pump P 454	Leq,D	93.7		320.35	-61.1	5.3	-12.1	-1.3	-0.58	0.0	0.0	0.0	0.0	23.8
Motor & Pump P 457	Leq,D	93.7		333.95	-61.5	5.3	-3.8	-2.1	-1.42	0.0	0.1	0.0	0.0	30.2
Motor & Pump P 458	Leq,D	93.7		322.26	-61.2	5.3	-13.9	-1.3	-0.50	0.0	0.9	0.0	0.0	22.9
Motor & Pump P 459	Leq,D	93.7		319.55	-61.1	5.3	-13.1	-1.3	-0.55	0.0	0.0	0.0	0.0	22.9
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		308.08	-60.8	5.3	-11.8	-1.3	-0.60	0.0	0.1	0.0	0.0	27.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		306.82	-60.7	5.3	-16.9	-1.3	-0.55	0.0	0.1	0.0	0.0	22.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		289.37	-60.2	5.3	-6.5	-1.9	-0.11	0.0	0.3	0.0	0.0	32.2
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		288.59	-60.2	5.3	-6.6	-1.9	-0.07	0.0	0.3	0.0	0.0	32.3
Motor & Pump P 1601 A	Leq,D	96.3	2	327.11	-61.3	5.2	-12.6	-1.5	-0.39	0.0	3.5	0.0	0.0	29.2
Motor & Pump P 1601 B	Leq,D	96.3	2	328.22	-61.3	5.2	-8.8	-1.6	-0.41	0.0	0.1	0.0	0.0	29.6
Motor & Pump P 1602 A	Leq,D	96.3	2	329.20	-61.3	5.2	-11.4	-1.6	-0.37	0.0	0.1	0.0	0.0	26.9
Motor & Pump P 1602 B	Leq,D	96.5	2	330.27	-61.4	5.2	-19.3	-1.6		0.0	0.6	0.0	0.0	20.0
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	313.91	-60.9	5.4	-16.4	-1.3	-0.54	0.0	0.3	0.0	0.0	23.1
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	310.31	-60.8	5.4	-13.6	-1.6	-0.49	0.0	0.1	0.0	0.0	25.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	308.54	-60.8	5.4	-14.2	-1.5	-0.49	0.0	0.1	0.0	0.0	25.0
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	306.10	-60.7	5.3	-17.6	-1.3	-0.50	0.0	0.2	0.0	0.0	22.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	304.77	-60.7	5.3	-18.8	-1.3	-0.47	0.0	0.2	0.0	0.0	20.9
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	309.66	-60.8	5.4	-13.1	-1.3	-0.39	0.0	0.1	0.0	0.0	26.2
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	308.02	-60.8	5.4	-15.2	-1.4	-0.40	0.0	0.1	0.0	0.0	24.0
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	305.24	-60.7	5.3	-8.5	-2.0	-0.35	0.0	0.0	0.0	0.0	30.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	306.50	-60.7	5.4	-9.5	-1.9	-0.35	0.0	0.1	0.0	0.0	29.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	262.82	-59.4	4.9	-6.0	-1.4		0.0	2.7	0.0	0.0	44.9
P-2 A/B	Leq,D	98.5		669.95	-67.5	5.8	-23.3	-2.2		0.0	2.6	0.0	0.0	13.9
P-50 A/B	Leq,D	98.1		626.48	-66.9	5.8	-23.6	-2.2	-0.90	0.0	3.5	0.0	0.0	13.8
P-51 A/B	Leq,D	98.1		629.00	-67.0	5.8	-24.4	-2.5	-0.23	0.0	0.1	0.0	0.0	9.9
P-060 A/B	Leq,D	98.1		620.11	-66.8	5.8	-17.5	-1.5	-0.63	0.0	1.0	0.0	0.0	18.4
P-63	Leq,D	98.5		650.95	-67.3	5.8	-12.7	-1.9	-1.66	0.0	0.0	0.0	0.0	20.8
P-70 A/B	Leq,D	98.1		622.92	-66.9	5.8	-24.0	-2.3	-0.83	0.0	0.1	0.0	0.0	10.0
P-73 A/B	Leq,D	98.5		666.34	-67.5	5.8	-23.9	-2.5		0.0	2.5	0.0	0.0	12.9
P-251 A/B	Leq,D	98.2		508.59	-65.1	5.8	-12.5	-1.5	-1.29	0.0	0.0	0.0	0.0	23.6
P-252 A/B	Leq,D	98.2		503.62	-65.0	5.8	-12.5	-1.5	-0.72	0.0	0.0	0.0	0.0	24.2
P-253	Leq,D	98.2		509.32	-65.1	5.8	-14.7	-1.3	-0.30	0.0	0.0	0.0	0.0	22.5
P-254 A/B	Leq,D	98.2		516.81	-65.3	5.8	-13.3	-1.5	-1.10	0.0	0.0	0.0	0.0	22.8
P-255 A/B	Leq,D	98.2		514.29	-65.2	5.8	-10.9	-1.6	-1.15	0.0	0.0	0.0	0.0	25.1
P-255 A/B	Leq,D	98.2		503.27	-65.0	5.8	-12.4	-1.5	-1.39	0.0	0.0	0.0	0.0	23.6
P-256 A/B	Leq,D	98.2		511.03	-65.2	5.8	-13.9	-1.5	-0.64	0.0	0.0	0.0	0.0	22.8
P-259 A/B	Leq,D	98.2		506.01	-65.1	5.8	-8.9	-1.7	-1.34	0.0	0.0	0.0	0.0	27.0
P-260	Leq,D	99.1		489.29	-64.8	5.8	-14.2	-1.5	-1.05	0.0	0.0	0.0	0.0	23.4
P-261 A/B	Leq,D	98.0		472.55	-64.5	5.8	-14.6	-1.4	-0.76	0.0	0.0	0.0	0.0	22.6
P-262 A/B	Leq,D	99.1		483.13	-64.7	5.8	-13.4	-1.5	-0.95	0.0	0.0	0.0	0.0	24.4
P-263 A/B	Leq,D	99.4		485.93	-64.7	5.8	-21.1	-1.4	-0.28	0.0	0.1	0.0	0.0	17.7
P-270 A/B	Leq,D	98.5		547.58	-65.8	5.8	-6.3	-2.1	-0.24	0.0	0.1	0.0	0.0	30.0
P-271 A/B	Leq,D	98.2		524.07	-65.4	5.8	-13.9	-1.4	-0.66	0.0	0.0	0.0	0.0	22.7
P-272 A/B	Leq,D	98.2		520.54	-65.3	5.8	-9.3	-1.7	-1.06	0.0	0.0	0.0	0.0	26.6
P-273 A/B	Leq,D	98.5		544.90	-65.7	5.8	-6.3	-2.1	-0.22	0.0	0.1	0.0	0.0	30.1
P-275 A/B/C	Leq,D	98.2		517.64	-65.3	5.8	-6.2	-2.0	-0.69	0.0	0.0	0.0	0.0	29.9
P-305	Leq,D	99.3		596.94	-66.5	5.8	-5.8	-2.2	-1.20	0.0	0.0	0.0	0.0	29.4
P-306	Leq,D	100.8		604.21	-66.6	5.8	-13.3	-1.6	-0.74	0.0	0.1	0.0	0.0	24.4
P-309	Leq,D	99.3		598.64	-66.5	5.8	-5.7	-2.3	-1.27	0.0	0.0	0.0	0.0	29.4
P-328	Leq,D	100.8		608.57	-66.7	5.8	-18.7	-1.7	-1.00	0.0	0.2	0.0	0.0	18.7
P-329	Leq,D	100.8		606.36	-66.6	5.8	-18.8	-1.7	-0.97	0.0	0.2	0.0	0.0	18.7
P-353	Leq,D	98.5		588.87	-66.4	5.6	-10.7	-1.8	-1.12	0.0	0.0	0.0	0.0	24.1

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-358 A/B	Leq,D	99.4		587.75	-66.4	5.8	-13.6	-1.7	-1.04	0.0	0.0	0.0	0.0	22.5
P-359 A/B	Leq,D	99.4		590.89	-66.4	5.8	-5.5	-2.3	-1.16	0.0	0.1	0.0	0.0	29.9
P-360 A/B	Leq,D	99.4		596.98	-66.5	5.8	-16.0	-1.7	-1.23	0.0	0.0	0.0	0.0	19.7
P-361A	Leq,D	98.1		607.26	-66.7	5.7	-16.4	-1.5	-0.26	0.0	0.8	0.0	0.0	19.8
P-371 A/B	Leq,D	98.0		371.30	-62.4	5.4	-17.7	-1.1	-0.65	0.0	0.2	0.0	0.0	21.8
P-373 A/B	Leq,D	98.0		383.91	-62.7	5.5	-16.7	-1.1	-0.49	0.0	0.0	0.0	0.0	22.5
P-374 A/B	Leq,D	98.0		381.19	-62.6	5.5	-18.2	-1.1	-0.58	0.0	0.0	0.0	0.0	21.0
P-375 A/B	Leq,D	98.0		375.00	-62.5	5.4	-18.6	-1.1	-0.76	0.0	0.0	0.0	0.0	20.5
P-376	Leq,D	98.0		379.49	-62.6	5.5	-18.3	-1.1	-0.64	0.0	0.0	0.0	0.0	20.8
P-376 A/B	Leq,D	98.0		386.77	-62.7	5.5	-6.2	-1.4	-0.42	0.0	0.0	0.0	0.0	32.7
P-377	Leq,D	98.0		377.84	-62.5	5.5	-18.7	-1.1	-0.69	0.0	0.0	0.0	0.0	20.5
P-1101 A	Leq,D	98.9		650.95	-67.3	5.7	-20.4	-1.9		0.0	0.0	0.0	0.0	15.1
P-1103	Leq,D	98.9		649.73	-67.2	5.7	-21.6	-2.1		0.0	0.0	0.0	0.0	13.7
P-1105 A/B/C	Leq,D	98.9		655.39	-67.3	5.7	-19.5	-1.8		0.0	0.0	0.0	0.0	15.9
P-1800	Leq,D	98.9		701.59	-67.9	5.8	-17.7	-1.9		0.0	4.2	0.0	0.0	21.4
P-1801	Leq,D	98.9		739.27	-68.4	5.8	-24.9	-3.0		0.0	3.5	0.0	0.0	12.0
P-1802	Leq,D	98.9		737.75	-68.4	5.8	-24.9	-3.0		0.0	0.3	0.0	0.0	8.7
P-1803	Leq,D	99.1		609.79	-66.7	5.8	-24.6	-2.4		0.0	3.2	0.0	0.0	14.4
P-1804	Leq,D	99.1		629.42	-67.0	5.8	-22.4	-1.9	-0.02	0.0	0.3	0.0	0.0	13.9
P-1805	Leq,D	99.1		632.01	-67.0	5.8	-22.4	-1.9		0.0	0.2	0.0	0.0	13.7
P-1806	Leq,D	99.1		589.86	-66.4	5.8	-9.1	-1.9		0.0	0.2	0.0	0.0	27.7
P-1809 A	Leq,D	98.9		708.19	-68.0	5.8	-20.6	-2.0		0.0	7.1	0.0	0.0	21.3
P-1810 A/B/C	Leq,D	99.0		627.52	-66.9	5.8	-24.8	-2.6		0.0	3.0	0.0	0.0	13.5
P-1811 A/B	Leq,D	99.1		595.56	-66.5	5.8	-9.0	-1.9		0.0	0.0	0.0	0.0	27.5
P-1811 A/B	Leq,D	99.1		635.26	-67.1	5.8	-22.0	-1.9		0.0	0.4	0.0	0.0	14.3
P-1847 A/B	Leq,D	99.4		567.13	-66.1	5.8	-18.3	-1.6		0.0	0.2	0.0	0.0	19.4
P-1849 A/B	Leq,D	99.4		572.95	-66.2	5.8	-17.8	-1.6		0.0	0.2	0.0	0.0	19.8
P-1853	Leq,D	99.1		553.58	-65.9	5.8	-7.3	-2.0	-1.41	0.0	0.2	0.0	0.0	28.6
Piping Furnace Tanks	Leq,D	87.1	72	405.97	-63.2	4.2	-10.7	-9.5		0.0	1.4	0.0	0.0	9.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	405.72	-63.2	4.4	-13.3	-6.3		0.0	0.9	0.0	0.0	20.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	365.74	-62.3	4.8	-17.9	-2.4		0.0	0.6	0.0	0.0	37.4
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	368.71	-62.3	4.8	-19.6	-5.6		0.0	1.0	0.0	0.0	33.5
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	657.72	-67.4	4.9	-23.2	-2.3		0.0	0.6	0.0	0.0	23.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	627.48	-66.9	4.8	-7.9	-2.2		0.0	0.2	0.0	0.0	39.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	606.88	-66.7	4.8	-9.2	-2.1		0.0	0.4	0.0	0.0	31.2
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	646.39	-67.2	4.8	-23.3	-2.3		0.0	4.5	0.0	0.0	27.7
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	615.07	-66.8	4.8	-23.2	-2.2		0.0	0.3	0.0	0.0	17.0
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	608.91	-66.7	4.8	-10.9	-2.2		0.0	1.9	0.0	0.0	30.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	606.98	-66.7	4.8	-9.0	-2.1		0.0	0.4	0.0	0.0	34.1
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	622.70	-66.9	4.8	-17.6	-2.1		0.0	1.6	0.0	0.0	25.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	634.82	-67.0	3.8	-5.6	-2.6		0.0	0.4	0.0	0.0	42.0
PSA Pipe 3" Lagging	Leq,D	80.6	11	380.58	-62.6	3.3	-4.9	-3.6		0.0	1.1	0.0	0.0	13.9
PSA Skid Additional Piping w NC	Leq,D	116.6	57	363.51	-62.2	4.8	-17.2	-2.4		0.0	0.6	0.0	0.0	40.1
Reformer-Burner Reformer East	Leq,D	97.3	269	407.91	-63.2	3.7	-9.0	-1.9		0.0	0.2	0.0	0.0	30.1
Reformer-Burner Reformer North	Leq,D	95.9	192	403.78	-63.1	3.6	-9.2	-1.9		0.0	0.3	0.0	0.0	25.6
Reformer-Burner Reformer South	Leq,D	95.8	191	419.66	-63.5	3.6	-22.7	-2.0		0.0	3.0	0.0	0.0	17.3
Reformer-Burner Reformer West	Leq,D	97.3	268	415.31	-63.4	3.4	-23.1	-2.0		0.0	2.7	0.0	0.0	17.9
RFG A from battery to process	Leq,D	99.4	87	409.91	-63.2	4.4	-12.2	-7.2		0.0	0.7	0.0	0.0	21.8
RFG A from battery to process w NC	Leq,D	115.2	42	366.97	-62.3	4.8	-21.3	-5.9		0.0	0.6	0.0	0.0	31.1
Stack Noise	Leq,D	108.4		445.02	-64.0	3.0	-1.4	-3.0		-7.0	0.4	0.0	0.0	36.4
Steam Turbine-Facade 01	Leq,D	99.6	29	372.24	-62.4	5.2	-22.7	-3.5	-0.12	0.0	0.1	0.0	0.0	16.2
Steam Turbine-Facade 02	Leq,D	96.2	13	374.05	-62.5	5.2	-23.9	-4.4	0.00	0.0	0.2	0.0	0.0	11.0
Steam Turbine-Facade 03	Leq,D	99.6	29	369.79	-62.4	5.2	-22.1	-3.0	-0.04	0.0	0.1	0.0	0.0	17.5
Steam Turbine-Facade 04	Leq,D	96.2	13	368.01	-62.3	5.2	-19.1	-2.5	-0.16	0.0	0.1	0.0	0.0	17.5
Steam Turbine-Roof 01	Leq,D	99.7	30	371.02	-62.4	4.8	-16.1	-2.7	-0.10	0.0	0.3	0.0	0.0	23.6
Tank Farm Pump 1	Leq,D	99.0	3	545.84	-65.7	5.6	-21.1	-2.2		0.0	4.7	0.0	0.0	20.4
Tank Farm Pump 2	Leq,D	99.0	3	564.82	-66.0	5.6	-19.1	-2.2		0.0	0.8	0.0	0.0	18.1
Tank Farm Pump 3	Leq,D	99.0	3	570.24	-66.1	5.6	-17.4	-2.3		0.0	1.3	0.0	0.0	20.1
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	234.89	-58.4	3.3	-5.7	-2.8	-0.06	0.0	0.2	-11.8	0.0	37.3
XF-1502 Splitter Area 1	Leq,D	104.5		309.11	-60.8	3.0	-4.0	-2.3	-0.43	-4.2	0.3	0.0	0.0	36.1
XF-1502 Splitter Area 2	Leq,D	104.5		311.80	-60.9	3.0	-1.4	-1.9	-0.52	-4.1	0.1	0.0	0.0	38.8
XF-1504 Splitter Area 1	Leq,D	104.5		312.22	-60.9	3.0	-4.1	-2.2	-0.45	-4.2	0.2	0.0	0.0	35.9
XF-1504 Splitter Area 2	Leq,D	104.5		314.88	-61.0	3.0	-4.1	-2.3	-0.54	-4.2	0.3	0.0	0.0	35.7
XF 251, 250, 271, 270	Leq,D	101.1	128	521.01	-65.3	4.4	-5.4	-1.4		-2.4	0.0	0.0	0.0	31.0
XF 260, 261A, 261 B	Leq,D	99.9	97	483.74	-64.7	4.3	-4.1	-1.3	0.00	-2.4	0.0	0.0	0.0	31.6

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 304, XF 321	Leq,D	110.5	56	243.85	-58.7	3.0	-5.3	-0.8	-0.35	-2.7	0.2	0.0	0.0	45.8	
XF 313, XF 314	Leq,D	113.0	18	220.53	-57.9	3.0	-5.1	-0.8		-3.7	0.2	0.0	0.0	48.8	
XF 335-1, XF 335-2	Leq,D	113.4	54	234.43	-58.4	3.0	-4.3	-1.4	-0.35	-3.1	0.8	0.0	0.0	49.7	
XF 353A/B	Leq,D	95.4	35	598.62	-66.5	4.6	-4.5	-1.7	-0.01	-2.5	0.0	0.0	0.0	24.8	
XF 353A/B	Leq,D	95.4	35	575.33	-66.2	4.5	-4.6	-1.6		-2.5	0.0	0.0	0.0	25.1	
XF 354A/B	Leq,D	95.4	35	592.11	-66.4	4.6	-6.4	-1.3	0.00	-2.1	0.0	0.0	0.0	23.8	
XF 503	Leq,D	113.0	21	295.64	-60.4	3.4	-1.1	-3.3	-0.79	-4.0	0.0	0.0	0.0	46.8	
XF - 1601	Leq,D	96.6		329.83	-61.4	3.0	-1.5	-1.3		-3.2	0.1	0.0	0.0	32.4	
XF - 1602	Leq,D	96.6		334.07	-61.5	3.0	-3.5	-0.8		-1.7	0.0	0.0	0.0	32.1	
XF Module 1510	Leq,D	108.3		310.54	-60.8	3.0	-3.9	-1.5	-0.44	-3.8	0.1	0.0	0.0	40.9	
XF Module 1519	Leq,D	109.0		306.62	-60.7	3.0	-2.2	-1.7	-0.36	-4.0	0.1	0.0	0.0	43.2	
xxxx xxxx xxxx xxxx	Leq,D		228								5.3			7.5	
xxxx xxxx xxxx xxxx	Leq,D		520								8.1			29.4	
xxxx xxxx xxxx xxxx	Leq,D		1341								6.5			27.8	
xxxx xxxx xxxx xxxx	Leq,D		450								6.5			14.4	
Receiver N-1 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 60.2	dB(A)	Ld 7-19	dB(A)	Leq,N 60.1	dB(A)	Le 19-22	dB(A)	CNEL 66.8	dB(A)	Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	361.65	-62.2	5.0	-20.4	-1.6		0.0	1.2	0.0	0.0	26.4	
18-1855 A/B	Leq,D	98.8		418.03	-63.4	5.5	-20.0	-1.3		0.0	0.0	0.0	0.0	19.6	
18-1856 A/B	Leq,D	98.8		422.83	-63.5	5.6	-20.6	-1.4		0.0	0.0	0.0	0.0	18.8	
18-1857 A/B	Leq,D	98.8		413.44	-63.3	5.5	-17.7	-1.2		0.0	0.0	0.0	0.0	22.1	
18-1858 A/B	Leq,D	98.8		410.37	-63.3	5.4	-17.7	-1.2		0.0	0.0	0.0	0.0	22.0	
18-PK 1802 Air Compressor Package	Leq,D	103.1		436.96	-63.8	5.7	-16.9	-0.6		0.0	0.0	0.0	0.0	27.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	355.07	-62.0	5.2	-8.2	-2.9	-0.14	0.0	0.9	-2.7	0.0	39.1	
Air Compressor C 1	Leq,D	110.0	5	192.79	-56.7	5.1	-20.8	-0.5		0.0	8.4	0.0	0.0	45.5	
Air Compressor Pump	Leq,D	100.3		380.29	-62.6	5.4	-22.8	-2.7	-0.36	0.0	0.8	0.0	0.0	18.2	
Blower F 401	Leq,D	113.0		301.82	-60.6	5.1	-5.7	-0.5	-2.33	0.0	0.0	0.0	0.0	49.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	564.19	-66.0	5.5	-16.2	-1.0	-0.40	0.0	0.3	0.0	0.0	20.8	
Boiler Feed Water Pump A	Leq,D	97.1	3	405.25	-63.1	5.4	-16.9	-1.2		0.0	0.0	0.0	0.0	21.3	
Boiler Feed Water Pump B	Leq,D	97.1	3	407.73	-63.2	5.4	-16.7	-1.2		0.0	0.0	0.0	0.0	21.4	
C370 A Motor	Leq,D	103.6	3	344.33	-61.7	4.7	-5.0	-1.9		0.0	0.5	0.0	0.0	40.2	
C370 B Motor	Leq,D	108.6	3	351.06	-61.9	4.8	-11.8	-1.1		0.0	1.1	0.0	0.0	39.7	
C370A	Leq,D	103.8	5	340.93	-61.6	4.8	-6.3	-1.7		0.0	0.0	0.0	0.0	38.9	
C370B	Leq,D	103.8	5	347.73	-61.8	4.8	-12.8	-1.0		0.0	1.4	0.0	0.0	34.4	
C-270 A	Leq,D	106.3	6	499.47	-65.0	5.2	-10.7	-1.7	-0.46	0.0	0.9	0.0	0.0	34.6	
C-270 B	Leq,D	106.3	6	496.34	-64.9	5.2	-8.3	-2.0	-0.48	0.0	0.2	0.0	0.0	36.1	
C-270 C	Leq,D	106.3	6	493.25	-64.9	5.2	-6.1	-2.3	-0.54	0.0	0.1	0.0	0.0	37.7	
C-301 Compressor	Leq,D	106.8	3	491.88	-64.8	5.2	-12.9	-1.5	-0.17	0.0	0.0	0.0	0.0	32.6	
C-301 Motor	Leq,D	106.8	4	489.24	-64.8	5.2	-14.3	-2.1	-0.19	0.0	0.0	0.0	0.0	30.6	
C-351 Compressor	Leq,D	106.8	4	507.17	-65.1	5.2	-14.8	-1.4	-0.67	0.0	0.0	0.0	0.0	30.1	
C-351 Motor	Leq,D	106.8	5	510.71	-65.2	5.1	-11.3	-2.3	-0.88	0.0	0.0	0.0	0.0	32.3	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	337.38	-61.6	5.4	-7.6	-0.8	-0.18	0.0	0.3	-33.5	0.0	36.7	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	254.21	-59.1	4.4	-22.4	-0.8	-0.42	-4.3	0.0	0.0	0.0	22.2	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	250.13	-59.0	4.4	-21.0	-0.9	-1.03	0.0	6.7	0.0	0.0	29.8	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	244.99	-58.8	4.4	-9.1	-0.7	-0.36	0.1	0.3	0.0	0.0	42.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	254.72	-59.1	4.5	-20.1	-0.6	-0.22	-7.8	0.0	0.0	0.0	27.3	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	252.28	-59.0	4.4	-21.2	-0.7	-1.05	-7.8	0.0	0.0	0.0	18.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	247.85	-58.9	4.4	-10.4	-0.7		4.1	0.7	0.0	0.0	39.7	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	277.02	-59.8	4.7	-10.9	-0.8	-0.37	-6.6	0.1	0.0	0.0	24.2	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	271.47	-59.7	4.6	-10.5	-0.7	-0.35	3.6	0.7	0.0	0.0	35.5	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	290.46	-60.3	4.3	-12.8	-0.8	-0.23	-6.9	12.8	0.0	0.0	36.8	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	281.26	-60.0	4.4	-3.0	-1.5	-0.34	3.3	0.5	0.0	0.0	44.0	
Cooling Tower M 512	Leq,D	95.7		279.94	-59.9	5.2	-21.7	-1.1	-0.22	0.0	0.6	0.0	0.0	18.5	
Cooling Tower M 513	Leq,D	95.7		279.42	-59.9	5.1	-21.4	-1.1	-0.28	0.0	0.6	0.0	0.0	18.7	
Cooling Tower M 514	Leq,D	95.7		280.73	-60.0	5.2	-21.6	-1.1	-0.16	0.0	0.6	0.0	0.0	18.6	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	380.38	-62.6	4.0	-14.5	-0.5		-1.3	0.0	0.0	0.0	20.8	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	347.36	-61.8	4.9	-13.0	-0.1		0.0	0.0	0.0	0.0	25.3	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	345.01	-61.7	4.9	-10.0	-0.1		0.0	0.0	0.0	0.0	26.1	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	346.37	-61.8	4.4	-7.4	-0.1		0.0	0.0	0.0	0.0	28.5	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	347.71	-61.8	4.9	-12.9	-0.1		0.0	0.0	0.0	0.0	23.3	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	345.34	-61.8	4.9	-6.0	-0.1		0.0	0.0	0.0	0.0	32.3	
FD Motor	Leq,D	103.3	2	348.25	-61.8	5.0	-23.8	-2.5		0.0	1.2	0.0	0.0	21.4	
Feed Compressor -B Motor	Leq,D	103.8	5	379.83	-62.6	4.9	-17.2	-1.7		0.0	5.2	0.0	0.0	32.4	
Feed Compressor-A Compressor	Leq,D	104.0	5	366.26	-62.3	4.9	-13.2	-1.2		0.0	0.0	0.0	0.0	32.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor-A Motor	Leq,D	103.8	6	370.35	-62.4	4.8	-13.2	-1.7		0.0	0.1	0.0	0.0	31.4
Feed Compressor-B Compressor	Leq,D	104.0	7	375.43	-62.5	5.0	-16.4	-1.1		0.0	4.0	0.0	0.0	32.9
H2S Compressor 18-C-271	Leq,D	105.3	6	225.90	-58.1	4.7	-19.9	-0.8	-0.18	0.0	6.4	0.0	0.0	37.5
Heater # 5-Heater	Leq,D	91.1	13	560.17	-66.0	5.5	-20.1	-1.2	-0.45	0.0	0.0	0.0	0.0	12.0
Heater # 5-Heater	Leq,D	91.1	13	556.95	-65.9	5.5	-19.0	-1.2	-0.28	0.0	0.3	0.0	0.0	13.5
Heater # 5-Heater	Leq,D	91.1	13	563.34	-66.0	5.5	-19.9	-1.2	-0.77	0.0	4.0	0.0	0.0	15.8
Hydro Heater H-402	Leq,D	98.1		269.16	-59.6	5.1	-13.4	-0.4	-0.69	0.0	0.0	0.0	0.0	29.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	363.69	-62.2	5.1	-12.4	-0.1		0.0	0.0	0.0	0.0	17.4
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	365.20	-62.2	5.1	-14.4	-0.1		0.0	0.0	0.0	0.0	15.7
ID Fan-ID Fan - North	Leq,D	92.2	8	362.31	-62.2	5.1	-7.6	-0.1		0.0	0.0	0.0	0.0	27.5
ID Fan-ID Fan - North 2	Leq,D	91.4	7	364.86	-62.2	5.1	-9.6	-0.1		0.0	0.0	0.0	0.0	24.6
ID Fan-ID Fan - South	Leq,D	92.3	9	364.36	-62.2	5.1	-14.7	-0.1		0.0	0.0	0.0	0.0	20.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	365.82	-62.3	5.1	-13.6	-0.1		0.0	0.0	0.0	0.0	20.6
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	363.90	-62.2	4.8	-7.8	-0.1		0.0	0.0	0.0	0.0	28.6
Motor & Pump P 56A/B	Leq,D	93.7		251.41	-59.0	5.1	-18.8	-1.1	-0.25	0.0	1.7	0.0	0.0	21.3
Motor & Pump P 120/121	Leq,D	96.2	2	204.85	-57.2	5.0	-12.1	-0.7		0.0	2.6	0.0	0.0	33.9
Motor & Pump P 211/212	Leq,D	93.7		269.44	-59.6	5.3	-18.5	-1.1	-0.94	0.0	0.3	0.0	0.0	19.2
Motor & Pump P 215/214	Leq,D	94.6		264.42	-59.4	5.3	-19.4	-1.2	-0.79	0.0	2.6	0.0	0.0	21.6
Motor & Pump P 216	Leq,D	98.3		267.41	-59.5	5.1	-22.8	-1.7	-0.13	0.0	0.0	0.0	0.0	19.2
Motor & Pump P 217/218	Leq,D	93.7		267.53	-59.5	5.5	-18.7	-1.1	-0.92	0.0	0.5	0.0	0.0	19.4
Motor & Pump P 300	Leq,D	97.1	2	198.61	-57.0	5.0	-12.3	-0.7	-0.42	0.0	1.1	0.0	0.0	33.0
Motor & Pump P 301	Leq,D	102.1	2	200.22	-57.0	5.0	-12.1	-0.7	-0.45	0.0	0.7	0.0	0.0	37.6
Motor & Pump P 302	Leq,D	97.1	2	196.91	-56.9	5.0	-12.4	-0.6	-0.38	0.0	1.4	0.0	0.0	33.2
Motor & Pump P 303	Leq,D	97.1	2	195.46	-56.8	4.9	-12.3	-0.6	-0.35	0.0	1.5	0.0	0.0	33.4
Motor & Pump P 305	Leq,D	97.5	2	194.05	-56.8	4.9	-12.4	-0.6	-0.31	0.0	1.6	0.0	0.0	33.9
Motor & Pump P 306	Leq,D	112.6	4	185.48	-56.4	4.7	-17.6	-0.7	-0.19	0.0	2.3	0.0	0.0	44.8
Motor & Pump P 307	Leq,D	102.1	2	204.86	-57.2	5.0	-11.8	-0.7	-0.56	0.0	0.0	0.0	0.0	36.9
Motor & Pump P 309	Leq,D	97.5	2	192.63	-56.7	4.9	-12.6	-0.6	-0.28	0.0	1.4	0.0	0.0	33.6
Motor & Pump P 312	Leq,D	101.5	2	225.93	-58.1	5.3	-12.8	-0.8	-0.95	0.0	1.6	0.0	0.0	35.8
Motor & Pump P 313	Leq,D	101.5	2	227.66	-58.1	5.3	-16.2	-0.7	-0.78	0.0	3.6	0.0	0.0	34.5
Motor & Pump P 315	Leq,D	102.9	2	233.82	-58.4	5.2	-18.4	-0.7	-0.60	0.0	3.5	0.0	0.0	33.5
Motor & Pump P 316	Leq,D	102.9	2	235.75	-58.4	5.2	-18.3	-0.7	-0.61	0.0	2.6	0.0	0.0	32.7
Motor & Pump P 317	Leq,D	102.9	2	237.70	-58.5	5.1	-18.2	-0.7	-0.60	0.0	2.2	0.0	0.0	32.2
Motor & Pump P 318	Leq,D	100.2	1	232.05	-58.3	5.4	-18.6	-0.7	-0.59	0.0	2.1	0.0	0.0	29.4
Motor & Pump P 319	Leq,D	100.2	1	230.61	-58.2	5.4	-18.6	-0.7	-0.58	0.0	3.6	0.0	0.0	31.0
Motor & Pump P 327	Leq,D	111.2	3	177.79	-56.0	4.9	-20.5	-1.0	-0.02	0.0	3.5	0.0	0.0	42.1
Motor & Pump P 328	Leq,D	109.9	5	190.99	-56.6	4.7	-13.5	-0.6	-0.27	0.0	1.9	0.0	0.0	45.6
Motor & Pump P 329	Leq,D	110.2	5	188.27	-56.5	4.7	-15.4	-0.7	-0.22	0.0	2.5	0.0	0.0	44.6
Motor & Pump P 451	Leq,D	93.7		276.02	-59.8	5.2	-17.2	-1.2	-0.64	0.0	3.0	0.0	0.0	23.0
Motor & Pump P 453	Leq,D	93.7		287.94	-60.2	5.2	-18.2	-1.2	-0.69	0.0	1.1	0.0	0.0	19.7
Motor & Pump P 454	Leq,D	93.7		275.09	-59.8	5.2	-17.3	-1.2	-0.68	0.0	2.6	0.0	0.0	22.5
Motor & Pump P 457	Leq,D	93.7		289.37	-60.2	5.2	-18.1	-1.2	-0.71	0.0	1.3	0.0	0.0	19.9
Motor & Pump P 458	Leq,D	93.7		276.43	-59.8	5.2	-17.0	-1.2	-0.63	0.0	0.3	0.0	0.0	20.5
Motor & Pump P 459	Leq,D	93.7		274.16	-59.8	5.2	-17.3	-1.2	-0.66	0.0	2.6	0.0	0.0	22.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		255.27	-59.1	5.2	-14.2	-1.1	-0.25	0.0	0.8	0.0	0.0	27.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		253.76	-59.1	5.2	-14.0	-1.1	-0.22	0.0	1.1	0.0	0.0	28.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		229.00	-58.2	5.1	-3.8	-2.4	-0.08	0.0	0.8	0.0	0.0	36.9
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		228.03	-58.2	5.1	-3.8	-2.4	-0.06	0.0	0.8	0.0	0.0	36.9
Motor & Pump P 1601 A	Leq,D	96.3	2	268.48	-59.6	5.0	-2.9	-3.0	-0.48	0.0	0.8	0.0	0.0	36.1
Motor & Pump P 1601 B	Leq,D	96.3	2	269.30	-59.6	5.0	-2.9	-3.0	-0.42	0.0	0.4	0.0	0.0	35.8
Motor & Pump P 1602 A	Leq,D	96.3	2	270.10	-59.6	5.0	-4.5	-2.4	-0.16	0.0	1.0	0.0	0.0	35.6
Motor & Pump P 1602 B	Leq,D	96.5	2	270.90	-59.6	5.0	-9.0	-1.3		0.0	5.0	0.0	0.0	36.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	259.01	-59.3	5.2	-4.9	-1.8	-0.26	0.0	0.1	0.0	0.0	35.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	254.70	-59.1	5.2	-3.1	-1.9	-0.27	0.0	0.2	0.0	0.0	37.7
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	252.55	-59.0	5.2	-3.4	-1.9	-0.28	0.0	0.2	0.0	0.0	37.3
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	252.70	-59.0	5.2	-13.0	-1.1	-0.16	0.0	2.8	0.0	0.0	31.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	251.10	-59.0	5.2	-11.1	-1.2	-0.12	0.0	2.0	0.0	0.0	32.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	251.48	-59.0	5.2	-3.9	-2.5	-0.51	0.0	1.1	0.0	0.0	36.8
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	250.31	-59.0	5.2	-3.9	-2.4	-0.42	0.0	0.7	0.0	0.0	36.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	248.36	-58.9	5.2	-3.6	-2.2	-0.28	0.0	0.7	0.0	0.0	37.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	249.25	-58.9	5.2	-4.2	-2.2	-0.34	0.0	0.3	0.0	0.0	36.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	203.81	-57.2	4.5	-2.0	-1.9		0.0	3.0	0.0	0.0	50.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-2 A/B	Leq,D	98.5		599.34	-66.5	5.8	-15.0	-1.6	-0.43	0.0	0.0	0.0	0.0	20.7
P-50 A/B	Leq,D	98.1		556.50	-65.9	5.8	-24.2	-2.1	-0.85	0.0	0.0	0.0	0.0	10.8
P-51 A/B	Leq,D	98.1		559.34	-65.9	5.8	-24.5	-2.3	-0.22	0.0	0.0	0.0	0.0	10.9
P-060 A/B	Leq,D	98.1		549.35	-65.8	5.8	-17.0	-1.5	-0.49	0.0	0.0	0.0	0.0	19.1
P-63	Leq,D	98.5		582.92	-66.3	5.8	-22.0	-1.8	-1.19	0.0	0.0	0.0	0.0	13.0
P-70 A/B	Leq,D	98.1		552.51	-65.8	5.8	-24.3	-2.2	-0.68	0.0	0.0	0.0	0.0	10.8
P-73 A/B	Leq,D	98.5		595.99	-66.5	5.8	-24.2	-2.3		0.0	0.0	0.0	0.0	11.3
P-251 A/B	Leq,D	98.2		448.25	-64.0	5.7	-11.0	-1.4	-0.56	0.0	0.0	0.0	0.0	26.9
P-252 A/B	Leq,D	98.2		441.86	-63.9	5.7	-8.5	-1.4	-0.26	0.0	0.0	0.0	0.0	29.9
P-253	Leq,D	98.2		446.73	-64.0	5.7	-8.4	-1.4	-0.26	0.0	0.0	0.0	0.0	29.8
P-254 A/B	Leq,D	98.2		455.21	-64.2	5.7	-7.6	-1.5	-0.56	0.0	0.0	0.0	0.0	30.1
P-255 A/B	Leq,D	98.2		453.06	-64.1	5.7	-5.7	-1.8	-0.55	0.0	0.0	0.0	0.0	31.8
P-255 A/B	Leq,D	98.2		443.74	-63.9	5.7	-10.4	-1.4	-0.55	0.0	0.3	0.0	0.0	27.9
P-256 A/B	Leq,D	98.2		450.30	-64.1	5.7	-10.3	-1.5	-0.56	0.0	0.0	0.0	0.0	27.6
P-259 A/B	Leq,D	98.2		446.05	-64.0	5.7	-11.0	-1.4	-0.56	0.0	0.2	0.0	0.0	27.2
P-260	Leq,D	99.1		429.74	-63.7	5.7	-12.6	-1.3	-0.25	0.0	0.3	0.0	0.0	27.3
P-261 A/B	Leq,D	98.0		416.00	-63.4	5.7	-19.7	-1.3	-0.21	0.0	1.4	0.0	0.0	20.6
P-262 A/B	Leq,D	99.1		424.62	-63.6	5.7	-13.0	-1.3	-0.27	0.0	0.3	0.0	0.0	27.1
P-263 A/B	Leq,D	99.4		426.90	-63.6	5.7	-13.3	-1.3	-0.25	0.0	0.3	0.0	0.0	27.0
P-270 A/B	Leq,D	98.5		481.64	-64.6	5.8	-13.0	-1.4	-0.15	0.0	0.0	0.0	0.0	25.0
P-271 A/B	Leq,D	98.2		461.44	-64.3	5.7	-8.1	-1.5	-0.57	0.0	0.0	0.0	0.0	29.5
P-272 A/B	Leq,D	98.2		458.40	-64.2	5.7	-8.1	-1.5	-0.57	0.0	0.0	0.0	0.0	29.6
P-273 A/B	Leq,D	98.5		479.29	-64.6	5.8	-13.0	-1.4	-0.03	0.0	0.0	0.0	0.0	25.2
P-275 A/B/C	Leq,D	98.2		453.84	-64.1	5.7	-9.5	-1.5	-0.25	0.0	0.0	0.0	0.0	28.6
P-305	Leq,D	99.3		534.67	-65.6	5.8	-6.1	-2.0	-1.03	0.0	0.0	0.0	0.0	30.4
P-306	Leq,D	100.8		541.11	-65.7	5.8	-12.4	-1.6	-1.17	0.0	0.0	0.0	0.0	25.7
P-309	Leq,D	99.3		536.16	-65.6	5.8	-5.9	-2.0	-1.03	0.0	0.0	0.0	0.0	30.5
P-328	Leq,D	100.8		544.99	-65.7	5.8	-16.7	-1.6	-1.39	0.0	0.0	0.0	0.0	21.2
P-329	Leq,D	100.8		543.00	-65.7	5.8	-12.3	-1.6	-1.28	0.0	0.0	0.0	0.0	25.7
P-353	Leq,D	98.5		525.27	-65.4	5.6	-16.4	-1.5	-0.91	0.0	0.0	0.0	0.0	19.9
P-358 A/B	Leq,D	99.4		520.55	-65.3	5.8	-22.7	-1.8	-0.91	0.0	0.0	0.0	0.0	14.5
P-359 A/B	Leq,D	99.4		524.07	-65.4	5.8	-19.1	-1.4	-1.08	0.0	0.0	0.0	0.0	18.2
P-360 A/B	Leq,D	99.4		530.90	-65.5	5.8	-19.6	-1.5	-1.34	0.0	0.0	0.0	0.0	17.2
P-361A	Leq,D	98.1		534.94	-65.6	5.6	-17.7	-1.5	-0.27	0.0	0.7	0.0	0.0	19.3
P-371 A/B	Leq,D	98.0		314.93	-61.0	5.3	-14.8	-0.9	-0.59	0.0	0.1	0.0	0.0	26.2
P-373 A/B	Leq,D	98.0		324.31	-61.2	5.4	-2.1	-1.4	-0.10	0.0	0.3	0.0	0.0	38.9
P-374 A/B	Leq,D	98.0		322.17	-61.2	5.4	-4.4	-1.6	-0.21	0.0	0.6	0.0	0.0	36.6
P-375 A/B	Leq,D	98.0		317.36	-61.0	5.3	-11.8	-1.0	-0.48	0.0	0.1	0.0	0.0	29.2
P-376	Leq,D	98.0		320.87	-61.1	5.4	-0.4	-1.4	-0.28	0.0	0.2	0.0	0.0	40.4
P-376 A/B	Leq,D	98.0		326.53	-61.3	5.4	-3.2	-1.4		0.0	0.4	0.0	0.0	37.9
P-377	Leq,D	98.0		319.57	-61.1	5.4	-6.8	-1.2		0.0	0.9	0.0	0.0	35.1
P-1101 A	Leq,D	98.9		579.50	-66.3	5.6	-21.2	-1.8		0.0	0.0	0.0	0.0	15.2
P-1103	Leq,D	98.9		578.35	-66.2	5.6	-21.0	-1.8		0.0	0.0	0.0	0.0	15.4
P-1105 A/B/C	Leq,D	98.9		583.60	-66.3	5.6	-21.5	-1.8	-0.08	0.0	0.0	0.0	0.0	14.8
P-1800	Leq,D	98.9		631.27	-67.0	5.8	-20.6	-1.8		0.0	0.7	0.0	0.0	16.0
P-1801	Leq,D	98.9		666.13	-67.5	5.8	-24.9	-2.8		0.0	0.4	0.0	0.0	9.9
P-1802	Leq,D	98.9		664.47	-67.4	5.8	-25.0	-2.8		0.0	0.2	0.0	0.0	9.7
P-1803	Leq,D	99.1		535.95	-65.6	5.7	-24.6	-2.2		0.0	0.4	0.0	0.0	12.9
P-1804	Leq,D	99.1		556.00	-65.9	5.7	-22.8	-1.8		0.0	1.1	0.0	0.0	15.4
P-1805	Leq,D	99.1		558.41	-65.9	5.7	-22.6	-1.8		0.0	0.2	0.0	0.0	14.7
P-1806	Leq,D	99.1		517.47	-65.3	5.7	-19.9	-1.5		0.0	0.0	0.0	0.0	18.2
P-1809 A	Leq,D	98.9		636.87	-67.1	5.8	-19.9	-1.8		0.0	4.8	0.0	0.0	20.7
P-1810 A/B/C	Leq,D	99.0		552.93	-65.8	5.7	-24.8	-2.4		0.0	0.3	0.0	0.0	11.9
P-1811 A/B	Leq,D	99.1		522.76	-65.4	5.7	-19.6	-1.5		0.0	0.0	0.0	0.0	18.3
P-1811 A/B	Leq,D	99.1		561.45	-66.0	5.7	-22.2	-1.7		0.0	0.1	0.0	0.0	15.1
P-1847 A/B	Leq,D	99.4		488.61	-64.8	5.6	-18.6	-1.4		0.0	0.1	0.0	0.0	20.3
P-1849 A/B	Leq,D	99.4		494.11	-64.9	5.6	-18.5	-1.4		0.0	0.1	0.0	0.0	20.3
P-1853	Leq,D	99.1		494.54	-64.9	5.8	-6.1	-1.9	-0.93	0.0	0.2	0.0	0.0	31.4
Piping Furnace Tanks	Leq,D	87.1	72	335.50	-61.5	3.9	-18.6	-5.3		0.0	0.6	0.0	0.0	6.1
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	338.20	-61.6	4.1	-18.6	-4.5		0.0	0.8	0.0	0.0	18.6
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	298.55	-60.5	4.5	-19.4	-2.0		0.0	0.1	0.0	0.0	37.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	301.40	-60.6	4.5	-20.8	-5.2		0.0	0.6	0.0	0.0	33.7
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	576.93	-66.2	4.5	-23.1	-2.1		0.0	0.8	0.0	0.0	24.4
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	546.25	-65.7	4.4	-8.2	-2.0		0.0	0.2	0.0	0.0	39.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	527.25	-65.4	4.4	-10.2	-1.8		0.0	0.3	0.0	0.0	31.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	567.77	-66.1	4.5	-22.7	-2.0		0.0	2.6	0.0	0.0	27.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	536.61	-65.6	4.4	-22.1	-1.8		0.0	1.0	0.0	0.0	20.0
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	528.80	-65.5	4.4	-11.3	-1.9		0.0	1.8	0.0	0.0	31.3

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	528.13	-65.4	4.4	-8.9	-1.8		0.0	0.2	0.0	0.0	35.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	544.55	-65.7	4.5	-20.7	-1.8		0.0	5.0	0.0	0.0	27.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	554.96	-65.9	3.3	-5.7	-2.3		0.0	0.3	0.0	0.0	42.8
PSA Pipe 3" Lagging	Leq,D	80.6	11	311.17	-60.9	3.1	-11.7	-2.2		0.0	0.4	0.0	0.0	9.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	296.68	-60.4	4.5	-19.0	-2.0		0.0	0.1	0.0	0.0	39.7
Reformer-Burner Reformer East	Leq,D	97.3	269	333.96	-61.5	3.4	-8.6	-1.4		0.0	0.0	0.0	0.0	32.3
Reformer-Burner Reformer North	Leq,D	95.9	192	331.50	-61.4	3.4	-5.9	-1.6		0.0	0.0	0.0	0.0	30.4
Reformer-Burner Reformer South	Leq,D	95.8	191	345.64	-61.8	3.2	-21.9	-1.6		0.0	1.8	0.0	0.0	18.6
Reformer-Burner Reformer West	Leq,D	97.3	268	342.96	-61.7	3.0	-22.0	-1.6		0.0	1.3	0.0	0.0	19.2
RFG A from battery to process	Leq,D	99.4	87	341.68	-61.7	4.1	-19.0	-4.7		0.0	0.4	0.0	0.0	18.5
RFG A from battery to process w NC	Leq,D	115.2	42	299.29	-60.5	4.5	-22.4	-5.6		0.0	0.2	0.0	0.0	31.4
Stack Noise	Leq,D	108.4		368.95	-62.3	2.9	-1.6	-2.8		-7.3	0.2	0.0	0.0	37.6
Steam Turbine-Facade 01	Leq,D	99.6	29	308.38	-60.8	5.1	-22.8	-3.4		0.0	0.2	0.0	0.0	17.8
Steam Turbine-Facade 02	Leq,D	96.2	13	309.39	-60.8	5.1	-23.9	-4.1		0.0	0.0	0.0	0.0	12.6
Steam Turbine-Facade 03	Leq,D	99.6	29	305.45	-60.7	5.1	-22.7	-3.1		0.0	0.1	0.0	0.0	18.2
Steam Turbine-Facade 04	Leq,D	96.2	13	304.47	-60.7	5.0	-19.7	-2.4		0.0	0.2	0.0	0.0	18.8
Steam Turbine-Roof 01	Leq,D	99.7	30	306.92	-60.7	4.5	-19.9	-2.4		0.0	0.1	0.0	0.0	21.2
Tank Farm Pump 1	Leq,D	99.0	3	466.25	-64.4	5.3	-21.4	-1.9		0.0	2.9	0.0	0.0	19.4
Tank Farm Pump 2	Leq,D	99.0	3	484.29	-64.7	5.3	-18.2	-2.0		0.0	0.4	0.0	0.0	19.9
Tank Farm Pump 3	Leq,D	99.0	3	489.49	-64.8	5.3	-17.8	-2.0		0.0	0.8	0.0	0.0	20.6
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	275.13	-59.8	4.0	-5.6	-2.9	-0.04	0.0	0.7	-11.8	0.0	37.1
XF-1502 Splitter Area 1	Leq,D	104.5		252.43	-59.0	3.0	-2.2	-1.5	-0.05	-4.0	0.9	0.0	0.0	41.7
XF-1502 Splitter Area 2	Leq,D	104.5		255.70	-59.1	3.0	-0.2	-1.8	-0.33	-4.5	0.7	0.0	0.0	42.4
XF-1504 Splitter Area 1	Leq,D	104.5		254.65	-59.1	3.0	-0.2	-1.8	-0.50	-4.5	0.7	0.0	0.0	42.2
XF-1504 Splitter Area 2	Leq,D	104.5		257.88	-59.2	3.0	-0.2	-1.8	-0.51	-4.5	0.7	0.0	0.0	42.1
XF 251, 250, 271, 270	Leq,D	101.1	128	457.49	-64.2	4.2	-2.0	-1.2		-2.5	0.0	0.0	0.0	35.3
XF 260, 261A, 261 B	Leq,D	99.9	97	426.44	-63.6	4.0	-3.3	-1.5	-0.18	-2.8	0.1	0.0	0.0	32.6
XF 304, XF 321	Leq,D	110.5	56	199.45	-57.0	3.0	-8.4	-0.4	-0.50	-2.1	0.1	0.0	0.0	45.2
XF 313, XF 314	Leq,D	113.0	18	170.45	-55.6	3.0	-12.4	-0.5		-3.1	0.6	0.0	0.0	45.0
XF 335-1, XF 335-2	Leq,D	113.4	54	187.85	-56.5	3.0	-7.0	-0.8	-0.36	-2.7	0.5	0.0	0.0	49.5
XF 353A/B	Leq,D	95.4	35	531.53	-65.5	4.4	-9.0	-0.8	-0.01	-1.7	0.0	0.0	0.0	22.8
XF 353A/B	Leq,D	95.4	35	507.48	-65.1	4.3	-8.9	-0.8		-1.5	0.0	0.0	0.0	23.5
XF 354A/B	Leq,D	95.4	35	529.28	-65.5	4.4	-4.2	-1.5	0.00	-2.4	0.0	0.0	0.0	26.2
XF 503	Leq,D	113.0	21	253.37	-59.1	3.0	-5.3	-2.5	-0.94	-3.7	0.0	0.0	0.0	44.5
XF - 1601	Leq,D	96.6		271.04	-59.7	3.0	-0.5	-1.0		-2.9	0.1	0.0	0.0	35.7
XF - 1602	Leq,D	96.6		274.21	-59.8	3.0	-0.5	-1.0		-2.9	0.1	0.0	0.0	35.6
XF Module 1510	Leq,D	108.3		256.22	-59.2	3.0	-2.0	-1.6	-0.09	-4.1	1.2	0.0	0.0	45.4
XF Module 1519	Leq,D	109.0		251.49	-59.0	3.0	-1.7	-1.7	-0.09	-4.2	1.1	0.0	0.0	46.5
xxxx xxxx xxxx xxxx	Leq,D		228								5.8			8.7
xxxx xxxx xxxx xxxx	Leq,D		520								11.8			34.0
xxxx xxxx xxxx xxxx	Leq,D		1341								7.3			31.2
xxxx xxxx xxxx xxxx	Leq,D		450								9.0			13.2
Receiver N-2 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 53.7 dB(A)		Ld 7-19 dB(A)		Leq,N 53.6 dB(A)		Le 19-22 dB(A)		CNEL 60.3 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	289.02	-60.2	3.2	-24.2	-2.3		0.0	5.4	0.0	0.0	26.1
18-1855 A/B	Leq,D	98.8		357.94	-62.1	3.4	-24.1	-1.7		0.0	3.5	0.0	0.0	17.9
18-1856 A/B	Leq,D	98.8		361.60	-62.2	3.4	-23.8	-1.6		0.0	2.4	0.0	0.0	17.0
18-1857 A/B	Leq,D	98.8		354.47	-62.0	3.4	-23.5	-1.5		0.0	7.4	0.0	0.0	22.5
18-1858 A/B	Leq,D	98.8		352.23	-61.9	3.2	-23.3	-1.5		0.0	7.4	0.0	0.0	22.6
18-PK 1802 Air Compressor Package	Leq,D	103.1		376.04	-62.5	2.3	-21.2	-0.8		0.0	1.1	0.0	0.0	22.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	344.71	-61.7	4.4	-17.5	-1.0	-0.09	0.0	2.1	-2.7	0.0	32.5
Air Compressor C 1	Leq,D	110.0	5	177.01	-56.0	4.5	-21.8	-0.6		0.0	3.0	0.0	0.0	39.2
Air Compressor Pump	Leq,D	100.3		336.03	-61.5	3.9	-24.3	-3.6		0.0	3.2	0.0	0.0	18.0
Blower F 401	Leq,D	113.0		287.50	-60.2	2.6	-12.8	-0.4	-2.30	0.0	0.0	0.0	0.0	40.0
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	506.74	-65.1	3.1	-22.0	-1.4	-0.83	0.0	1.9	0.0	0.0	14.2
Boiler Feed Water Pump A	Leq,D	97.1	3	340.99	-61.6	3.4	-24.0	-1.9		0.0	2.6	0.0	0.0	15.5
Boiler Feed Water Pump B	Leq,D	97.1	3	343.89	-61.7	3.4	-24.0	-1.9		0.0	2.6	0.0	0.0	15.5
C370 A Motor	Leq,D	103.6	3	294.59	-60.4	2.8	-22.2	-1.4		0.0	3.2	0.0	0.0	25.7
C370 B Motor	Leq,D	108.6	3	298.93	-60.5	2.8	-22.4	-1.4		0.0	3.3	0.0	0.0	30.3
C370A	Leq,D	103.8	5	290.55	-60.3	2.8	-22.4	-1.4		0.0	3.2	0.0	0.0	25.9
C370B	Leq,D	103.8	5	294.96	-60.4	2.8	-22.5	-1.4		0.0	2.9	0.0	0.0	25.2
C-270 A	Leq,D	106.3	6	440.51	-63.9	3.4	-21.4	-1.7	-0.25	0.0	2.9	0.0	0.0	25.4
C-270 B	Leq,D	106.3	6	438.08	-63.8	3.4	-21.3	-1.7	-0.15	0.0	4.6	0.0	0.0	27.4
C-270 C	Leq,D	106.3	6	435.68	-63.8	3.4	-21.5	-1.7	-0.23	0.0	8.2	0.0	0.0	30.7
C-301 Compressor	Leq,D	106.8	3	428.27	-63.6	3.4	-22.8	-2.0	-0.13	0.0	3.4	0.0	0.0	25.0
C-301 Motor	Leq,D	106.8	4	426.11	-63.6	3.4	-23.8	-3.5	-0.16	0.0	5.2	0.0	0.0	24.4
C-351 Compressor	Leq,D	106.8	4	445.00	-64.0	3.4	-22.6	-2.0	-0.53	0.0	3.9	0.0	0.0	25.1
C-351 Motor	Leq,D	106.8	5	449.03	-64.0	3.3	-23.4	-3.5	-0.72	0.0	5.8	0.0	0.0	24.2
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	332.57	-61.4	4.3	-15.7	-0.4	-0.14	0.0	1.9	-33.5	0.0	29.8
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	249.40	-58.9	4.1	-21.2	-0.7	-0.10	3.6	0.0	0.0	0.0	31.5

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	243.64	-58.7	4.0	-15.6	-0.7	0.00	0.0	0.0	0.0	0.0	29.5
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	243.23	-58.7	4.1	-13.8	-0.5	-0.55	0.1	0.0	0.0	0.0	37.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	253.76	-59.1	4.1	-21.7	-0.8	-0.98	-7.8	0.0	0.0	0.0	24.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	246.62	-58.8	4.0	-22.2	-0.8	-0.02	-7.8	0.0	0.0	0.0	18.2
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	250.82	-59.0	4.2	-16.6	-0.7	-1.39	-4.2	0.0	0.0	0.0	22.7
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	244.47	-58.8	2.3	-22.3	-1.2	-0.84	-2.4	1.7	0.0	0.0	16.4
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	243.28	-58.7	2.2	-15.6	-0.8	-0.18	2.2	8.3	0.0	0.0	35.3
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	249.91	-58.9	1.9	-22.7	-1.3		-3.7	4.4	0.0	0.0	20.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	246.56	-58.8	2.0	-18.0	-0.7	-0.13	4.2	9.8	0.0	0.0	38.9
Cooling Tower M 512	Leq,D	95.7		250.25	-59.0	3.3	-22.9	-1.2	-0.85	0.0	2.1	0.0	0.0	17.1
Cooling Tower M 513	Leq,D	95.7		250.24	-59.0	3.2	-22.5	-1.2	-0.85	0.0	2.0	0.0	0.0	17.3
Cooling Tower M 514	Leq,D	95.7		250.54	-59.0	3.2	-23.0	-1.2	-0.85	0.0	2.1	0.0	0.0	17.0
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	314.07	-60.9	0.8	-19.5	-0.7		-1.4	0.4	0.0	0.0	14.5
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	275.38	-59.8	3.2	-15.9	-0.1		0.0	0.1	0.0	0.0	22.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	272.89	-59.7	3.2	-15.1	-0.1		0.0	0.1	0.0	0.0	21.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	274.60	-59.8	2.5	-13.3	-0.1		0.0	0.1	0.0	0.0	22.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	276.27	-59.8	3.2	-15.5	-0.1		0.0	0.1	0.0	0.0	21.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	273.77	-59.7	3.2	-14.2	-0.1		0.0	0.1	0.0	0.0	24.6
FD Motor	Leq,D	103.3	2	276.08	-59.8	3.1	-24.6	-2.9		0.0	4.6	0.0	0.0	23.6
Feed Compressor -B Motor	Leq,D	103.8	5	322.57	-61.2	2.9	-23.4	-2.9		0.0	6.4	0.0	0.0	25.7
Feed Compressor-A Compressor	Leq,D	104.0	5	311.04	-60.8	3.0	-22.2	-1.4		0.0	1.5	0.0	0.0	24.1
Feed Compressor-A Motor	Leq,D	103.8	6	315.82	-61.0	2.9	-23.4	-2.7		0.0	3.8	0.0	0.0	23.6
Feed Compressor-B Compressor	Leq,D	104.0	7	317.37	-61.0	3.0	-24.0	-1.9		0.0	6.1	0.0	0.0	26.3
H2S Compressor 18-C-271	Leq,D	105.3	6	211.88	-57.5	4.2	-21.7	-0.9		0.0	0.1	0.0	0.0	29.4
Heater # 5-Heater	Leq,D	91.1	13	502.61	-65.0	3.1	-23.0	-1.7	-0.87	0.0	2.4	0.0	0.0	9.0
Heater # 5-Heater	Leq,D	91.1	13	500.03	-65.0	3.1	-23.2	-1.7	-0.54	0.0	1.7	0.0	0.0	8.4
Heater # 5-Heater	Leq,D	91.1	13	505.16	-65.1	3.1	-23.0	-1.7	-1.16	0.0	3.9	0.0	0.0	10.2
Hydro Heater H-402	Leq,D	98.1		249.15	-58.9	2.1	-19.1	-0.7		0.0	4.1	0.0	0.0	25.6
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	291.19	-60.3	4.1	-15.8	-0.1		0.0	0.0	0.0	0.0	14.9
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	293.04	-60.3	4.1	-15.6	-0.1		0.0	0.0	0.0	0.0	15.4
ID Fan-ID Fan - North	Leq,D	92.2	8	289.95	-60.2	4.1	-14.2	-0.1		0.0	0.0	0.0	0.0	21.9
ID Fan-ID Fan - North 2	Leq,D	91.4	7	292.25	-60.3	4.1	-14.6	-0.1		0.0	0.0	0.0	0.0	20.5
ID Fan-ID Fan - South	Leq,D	92.3	9	292.48	-60.3	4.1	-16.1	-0.1		0.0	0.0	0.0	0.0	19.9
ID Fan-ID Fan - South 2	Leq,D	91.4	7	293.43	-60.3	4.1	-15.6	-0.1		0.0	0.0	0.0	0.0	19.5
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	291.68	-60.3	3.6	-13.7	-0.1		0.0	0.0	0.0	0.0	23.5
Motor & Pump P 56A/B	Leq,D	93.7		233.48	-58.4	4.1	-18.6	-1.3	-1.11	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 120/121	Leq,D	96.2	2	189.72	-56.6	4.5	-21.1	-0.7		0.0	3.6	0.0	0.0	25.9
Motor & Pump P 211/212	Leq,D	93.7		260.11	-59.3	4.9	-21.3	-1.4	-0.56	0.0	0.0	0.0	0.0	16.0
Motor & Pump P 215/214	Leq,D	94.6		255.09	-59.1	4.9	-21.3	-1.4	-0.45	0.0	0.0	0.0	0.0	17.2
Motor & Pump P 216	Leq,D	98.3		260.56	-59.3	4.8	-20.7	-1.4	-0.55	0.0	0.0	0.0	0.0	21.2
Motor & Pump P 217/218	Leq,D	93.7		258.25	-59.2	5.1	-21.4	-1.4	-0.51	0.0	0.0	0.0	0.0	16.2
Motor & Pump P 300	Leq,D	97.1	2	189.34	-56.5	4.7	-19.9	-0.7		0.0	1.5	0.0	0.0	26.2
Motor & Pump P 301	Leq,D	102.1	2	191.01	-56.6	4.7	-19.9	-0.7		0.0	1.2	0.0	0.0	30.8
Motor & Pump P 302	Leq,D	97.1	2	187.57	-56.5	4.7	-19.9	-0.6		0.0	1.8	0.0	0.0	26.6
Motor & Pump P 303	Leq,D	97.1	2	186.11	-56.4	4.6	-19.9	-0.6		0.0	1.8	0.0	0.0	26.7
Motor & Pump P 305	Leq,D	97.5	2	184.64	-56.3	4.6	-20.1	-0.7		0.0	2.2	0.0	0.0	27.2
Motor & Pump P 306	Leq,D	112.6	4	175.64	-55.9	4.3	-21.1	-0.9		0.0	1.8	0.0	0.0	40.9
Motor & Pump P 307	Leq,D	102.1	2	195.83	-56.8	4.7	-19.3	-0.6		0.0	0.1	0.0	0.0	30.1
Motor & Pump P 309	Leq,D	97.5	2	183.17	-56.2	4.6	-20.4	-0.7		0.0	2.2	0.0	0.0	27.1
Motor & Pump P 312	Leq,D	101.5	2	217.61	-57.7	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	27.6
Motor & Pump P 313	Leq,D	101.5	2	219.38	-57.8	4.9	-20.3	-0.8		0.0	0.0	0.0	0.0	27.6
Motor & Pump P 315	Leq,D	102.9	2	225.84	-58.1	4.8	-20.1	-0.8		0.0	0.0	0.0	0.0	28.8
Motor & Pump P 316	Leq,D	102.9	2	227.82	-58.1	4.8	-20.1	-0.8		0.0	0.0	0.0	0.0	28.7
Motor & Pump P 317	Leq,D	102.9	2	229.78	-58.2	4.8	-20.0	-0.8		0.0	0.0	0.0	0.0	28.6
Motor & Pump P 318	Leq,D	100.2	1	223.79	-58.0	5.0	-20.3	-0.8		0.0	0.0	0.0	0.0	26.1
Motor & Pump P 319	Leq,D	100.2	1	222.31	-57.9	5.0	-20.3	-0.8		0.0	0.0	0.0	0.0	26.2
Motor & Pump P 327	Leq,D	111.2	3	167.96	-55.5	4.6	-22.5	-1.1		0.0	1.5	0.0	0.0	38.3
Motor & Pump P 328	Leq,D	109.9	5	181.37	-56.2	4.4	-20.6	-0.7		0.0	2.1	0.0	0.0	39.0
Motor & Pump P 329	Leq,D	110.2	5	178.53	-56.0	4.4	-21.2	-0.7		0.0	1.9	0.0	0.0	38.5
Motor & Pump P 451	Leq,D	93.7		256.05	-59.2	3.4	-23.2	-1.9		0.0	2.3	0.0	0.0	15.0
Motor & Pump P 453	Leq,D	93.7		267.73	-59.5	3.5	-23.7	-2.2		0.0	2.1	0.0	0.0	13.8
Motor & Pump P 454	Leq,D	93.7		255.63	-59.1	3.4	-22.2	-1.6		0.0	8.4	0.0	0.0	22.5
Motor & Pump P 457	Leq,D	93.7		269.26	-59.6	3.5	-23.7	-2.2		0.0	2.1	0.0	0.0	13.8
Motor & Pump P 458	Leq,D	93.7		256.05	-59.2	3.4	-23.3	-2.0		0.0	2.2	0.0	0.0	14.9
Motor & Pump P 459	Leq,D	93.7		254.63	-59.1	3.4	-22.2	-1.6		0.0	8.4	0.0	0.0	22.5

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		227.59	-58.1	3.4	-22.0	-1.4		0.0	14.0	0.0	0.0	32.0
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		225.90	-58.1	3.4	-22.0	-1.4		0.0	14.0	0.0	0.0	32.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		193.37	-56.7	3.2	-22.7	-1.4	-0.07	0.0	10.0	0.0	0.0	27.6
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		192.22	-56.7	3.2	-22.8	-1.4	-0.05	0.0	10.2	0.0	0.0	27.9
Motor & Pump P 1601 A	Leq,D	96.3	2	230.40	-58.2	3.1	-21.3	-1.4		0.0	16.6	0.0	0.0	35.2
Motor & Pump P 1601 B	Leq,D	96.3	2	230.69	-58.3	3.1	-22.6	-1.8		0.0	14.6	0.0	0.0	31.3
Motor & Pump P 1602 A	Leq,D	96.3	2	231.11	-58.3	3.1	-22.9	-1.8		0.0	15.7	0.0	0.0	32.1
Motor & Pump P 1602 B	Leq,D	96.5	2	231.41	-58.3	3.1	-21.2	-1.4		0.0	17.3	0.0	0.0	36.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	227.74	-58.1	3.4	-22.4	-1.5	-0.79	0.0	12.8	0.0	0.0	30.1
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	222.89	-58.0	3.4	-22.4	-1.4	-0.69	0.0	12.8	0.0	0.0	30.3
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	220.45	-57.9	3.4	-22.4	-1.4	-0.64	0.0	12.7	0.0	0.0	30.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	224.47	-58.0	3.4	-22.6	-1.5		0.0	12.0	0.0	0.0	30.0
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	222.67	-57.9	3.4	-22.7	-1.5		0.0	11.8	0.0	0.0	29.6
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	216.16	-57.7	3.4	-24.2	-2.0	-0.19	0.0	2.2	0.0	0.0	17.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	215.85	-57.7	3.4	-22.8	-1.5	-0.54	0.0	12.0	0.0	0.0	29.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	215.45	-57.7	3.3	-22.4	-1.4	-0.53	0.0	12.7	0.0	0.0	30.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	215.66	-57.7	3.4	-22.5	-1.4	-0.53	0.0	11.8	0.0	0.0	29.4
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	174.87	-55.8	2.4	-16.8	-0.7		0.0	10.8	0.0	0.0	44.0
P-2 A/B	Leq,D	98.5		529.81	-65.5	3.7	-24.6	-2.5		0.0	5.6	0.0	0.0	15.2
P-50 A/B	Leq,D	98.1		488.49	-64.8	3.7	-24.6	-2.4	-0.38	0.0	2.9	0.0	0.0	12.6
P-51 A/B	Leq,D	98.1		491.74	-64.8	3.7	-23.0	-1.9	-0.73	0.0	3.8	0.0	0.0	15.2
P-060 A/B	Leq,D	98.1		480.37	-64.6	3.7	-23.1	-1.9	-0.33	0.0	10.3	0.0	0.0	22.1
P-63	Leq,D	98.5		517.17	-65.3	3.7	-20.6	-1.8	-0.79	0.0	9.7	0.0	0.0	23.5
P-70 A/B	Leq,D	98.1		483.97	-64.7	3.7	-24.7	-2.4	-0.50	0.0	3.1	0.0	0.0	12.6
P-73 A/B	Leq,D	98.5		526.87	-65.4	3.7	-24.7	-2.6		0.0	3.0	0.0	0.0	12.5
P-251 A/B	Leq,D	98.2		396.37	-63.0	3.7	-23.6	-1.7	-0.47	0.0	3.0	0.0	0.0	16.2
P-252 A/B	Leq,D	98.2		388.21	-62.8	3.6	-24.5	-2.0	-0.22	0.0	3.5	0.0	0.0	15.9
P-253	Leq,D	98.2		391.74	-62.9	3.6	-24.5	-2.0	-0.22	0.0	8.8	0.0	0.0	21.1
P-254 A/B	Leq,D	98.2		401.34	-63.1	3.7	-24.5	-2.0	-0.47	0.0	4.0	0.0	0.0	15.8
P-255 A/B	Leq,D	98.2		399.78	-63.0	3.7	-23.5	-1.7	-0.47	0.0	3.0	0.0	0.0	16.1
P-255 A/B	Leq,D	98.2		393.16	-62.9	3.7	-23.6	-1.7	-0.47	0.0	7.8	0.0	0.0	20.9
P-256 A/B	Leq,D	98.2		397.80	-63.0	3.7	-23.6	-1.7	-0.47	0.0	2.9	0.0	0.0	16.0
P-259 A/B	Leq,D	98.2		394.79	-62.9	3.7	-23.6	-1.7	-0.47	0.0	7.8	0.0	0.0	21.0
P-260	Leq,D	99.1		379.65	-62.6	3.6	-23.8	-1.7	-0.21	0.0	4.6	0.0	0.0	19.0
P-261 A/B	Leq,D	98.0		370.66	-62.4	3.6	-23.7	-1.6	-0.21	0.0	4.4	0.0	0.0	18.1
P-262 A/B	Leq,D	99.1		376.19	-62.5	3.6	-23.7	-1.7	-0.21	0.0	4.2	0.0	0.0	18.8
P-263 A/B	Leq,D	99.4		377.65	-62.5	3.6	-23.8	-1.7	-0.21	0.0	4.3	0.0	0.0	19.1
P-270 A/B	Leq,D	98.5		420.88	-63.5	3.7	-24.5	-2.0	-0.18	0.0	4.7	0.0	0.0	16.7
P-271 A/B	Leq,D	98.2		405.92	-63.2	3.7	-24.5	-2.0	-0.48	0.0	9.4	0.0	0.0	21.1
P-272 A/B	Leq,D	98.2		403.67	-63.1	3.7	-24.5	-2.0	-0.48	0.0	9.2	0.0	0.0	21.0
P-273 A/B	Leq,D	98.5		419.05	-63.4	3.7	-23.4	-1.7	-0.03	0.0	3.8	0.0	0.0	17.4
P-275 A/B/C	Leq,D	98.2		396.92	-63.0	3.6	-23.4	-1.7	-0.21	0.0	8.2	0.0	0.0	21.9
P-305	Leq,D	99.3		477.72	-64.6	3.7	-23.7	-2.0	-0.49	0.0	6.0	0.0	0.0	18.3
P-306	Leq,D	100.8		482.87	-64.7	3.7	-23.7	-2.0	-1.02	0.0	3.4	0.0	0.0	16.5
P-309	Leq,D	99.3		478.88	-64.6	3.7	-23.7	-2.0	-0.60	0.0	3.5	0.0	0.0	15.7
P-328	Leq,D	100.8		486.02	-64.7	3.7	-23.3	-1.9	-1.41	0.0	5.7	0.0	0.0	18.9
P-329	Leq,D	100.8		484.37	-64.7	3.7	-23.7	-2.0	-1.26	0.0	6.0	0.0	0.0	18.9
P-353	Leq,D	98.5		466.72	-64.4	3.5	-23.0	-1.9	-0.73	0.0	2.8	0.0	0.0	14.8
P-358 A/B	Leq,D	99.4		457.10	-64.2	3.7	-24.3	-2.1	-0.75	0.0	8.3	0.0	0.0	20.0
P-359 A/B	Leq,D	99.4		461.08	-64.3	3.7	-24.3	-2.1	-0.88	0.0	3.7	0.0	0.0	15.2
P-360 A/B	Leq,D	99.4		468.80	-64.4	3.7	-24.3	-2.2	-1.06	0.0	3.4	0.0	0.0	14.5
P-361A	Leq,D	98.1		464.00	-64.3	3.5	-24.2	-2.2	-0.28	0.0	11.7	0.0	0.0	22.3
P-371 A/B	Leq,D	98.0		275.84	-59.8	3.1	-23.4	-1.3		0.0	3.4	0.0	0.0	20.0
P-373 A/B	Leq,D	98.0		279.74	-59.9	3.1	-23.7	-1.3		0.0	4.7	0.0	0.0	20.9
P-374 A/B	Leq,D	98.0		278.63	-59.9	3.1	-23.7	-1.3		0.0	4.6	0.0	0.0	20.9
P-375 A/B	Leq,D	98.0		276.22	-59.8	3.1	-23.6	-1.3		0.0	4.6	0.0	0.0	21.1
P-376	Leq,D	98.0		278.01	-59.9	3.1	-23.6	-1.3		0.0	4.6	0.0	0.0	20.9
P-376 A/B	Leq,D	98.0		280.84	-60.0	3.1	-23.7	-1.3		0.0	4.7	0.0	0.0	20.9
P-377	Leq,D	98.0		277.33	-59.9	3.1	-23.6	-1.3		0.0	4.6	0.0	0.0	20.9
P-1101 A	Leq,D	98.9		509.08	-65.1	3.5	-24.2	-2.4		0.0	5.5	0.0	0.0	16.2
P-1103	Leq,D	98.9		508.07	-65.1	3.5	-24.2	-2.4		0.0	5.3	0.0	0.0	16.1
P-1105 A/B/C	Leq,D	98.9		512.66	-65.2	3.5	-23.5	-2.1	-0.30	0.0	5.4	0.0	0.0	16.7

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1800	Leq,D	98.9		561.73	-66.0	3.8	-24.7	-2.6		0.0	10.8	0.0	0.0	20.2
P-1801	Leq,D	98.9		592.37	-66.4	3.8	-24.9	-2.9		0.0	5.2	0.0	0.0	13.6
P-1802	Leq,D	98.9		590.52	-66.4	3.8	-25.0	-2.9		0.0	3.2	0.0	0.0	11.6
P-1803	Leq,D	99.1		462.83	-64.3	3.6	-24.9	-2.3		0.0	7.8	0.0	0.0	19.1
P-1804	Leq,D	99.1		483.17	-64.7	3.7	-24.5	-2.3		0.0	3.4	0.0	0.0	14.7
P-1805	Leq,D	99.1		485.28	-64.7	3.7	-24.5	-2.2		0.0	7.9	0.0	0.0	19.3
P-1806	Leq,D	99.1		446.73	-64.0	3.6	-24.6	-2.2		0.0	10.9	0.0	0.0	22.9
P-1809 A	Leq,D	98.9		565.90	-66.0	3.8	-23.5	-2.2		0.0	5.0	0.0	0.0	15.9
P-1810 A/B/C	Leq,D	99.0		478.48	-64.6	3.7	-24.9	-2.4		0.0	2.0	0.0	0.0	12.8
P-1811 A/B	Leq,D	99.1		451.33	-64.1	3.6	-23.1	-1.8		0.0	9.4	0.0	0.0	23.1
P-1811 A/B	Leq,D	99.1		487.99	-64.8	3.7	-24.8	-2.4		0.0	2.0	0.0	0.0	12.8
P-1847 A/B	Leq,D	99.4		409.32	-63.2	3.5	-23.8	-1.8		0.0	0.0	0.0	0.0	14.1
P-1849 A/B	Leq,D	99.4		414.29	-63.3	3.5	-23.7	-1.8		0.0	0.0	0.0	0.0	14.1
P-1853	Leq,D	99.1		442.99	-63.9	3.7	-23.4	-1.8	-0.81	0.0	3.3	0.0	0.0	16.1
Piping Furnace Tanks	Leq,D	87.1	72	273.52	-59.7	2.3	-24.0	-6.7		0.0	5.8	0.0	0.0	4.8
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	280.60	-60.0	2.5	-23.9	-6.7		0.0	5.1	0.0	0.0	15.4
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	244.13	-58.7	2.8	-24.9	-2.3		0.0	3.2	0.0	0.0	34.5
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	246.58	-58.8	3.0	-24.9	-7.2		0.0	5.6	0.0	0.0	32.8
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	493.27	-64.9	2.4	-23.8	-2.2		0.0	0.2	0.0	0.0	22.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	462.24	-64.3	2.2	-20.1	-1.6		0.0	0.0	0.0	0.0	27.4
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	445.79	-64.0	2.2	-19.8	-1.6		0.0	0.1	0.0	0.0	21.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	487.37	-64.7	2.3	-24.1	-2.3		0.0	0.2	0.0	0.0	22.5
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	456.77	-64.2	2.2	-24.2	-2.1		0.0	0.3	0.0	0.0	16.1
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	446.62	-64.0	2.2	-20.0	-1.6		0.0	0.8	0.0	0.0	21.1
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	447.78	-64.0	2.2	-19.7	-1.5		0.0	0.0	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	465.07	-64.3	2.3	-23.0	-2.0		0.0	1.4	0.0	0.0	20.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	472.83	-64.5	1.0	-19.8	-1.5		0.0	0.0	0.0	0.0	28.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	252.15	-59.0	1.7	-23.3	-2.2		0.0	7.1	0.0	0.0	4.9
PSA Skid Additional Piping w NC	Leq,D	116.6	57	242.97	-58.7	2.8	-24.9	-2.3		0.0	3.1	0.0	0.0	36.5
Reformer-Burner Reformer East	Leq,D	97.3	269	266.18	-59.5	1.0	-18.9	-1.3		0.0	12.4	0.0	0.0	34.1
Reformer-Burner Reformer North	Leq,D	95.9	192	266.54	-59.5	1.1	-20.4	-1.3		0.0	11.9	0.0	0.0	27.6
Reformer-Burner Reformer South	Leq,D	95.8	191	277.17	-59.8	1.0	-22.8	-1.8		0.0	6.5	0.0	0.0	21.9
Reformer-Burner Reformer West	Leq,D	97.3	268	277.36	-59.9	0.9	-23.4	-1.9		0.0	3.1	0.0	0.0	19.1
RFG A from battery to process	Leq,D	99.4	87	282.89	-60.0	2.5	-23.8	-6.5		0.0	5.3	0.0	0.0	16.9
RFG A from battery to process w NC	Leq,D	115.2	42	244.03	-58.7	2.9	-24.9	-7.2		0.0	3.8	0.0	0.0	31.1
Stack Noise	Leq,D	108.4		296.23	-60.4	0.9	-9.9	-0.4		-4.5	2.4	0.0	0.0	36.4
Steam Turbine-Facade 01	Leq,D	99.6	29	258.49	-59.2	3.5	-24.5	-5.1		0.0	2.3	0.0	0.0	16.5
Steam Turbine-Facade 02	Leq,D	96.2	13	258.14	-59.2	3.5	-24.6	-5.2		0.0	2.3	0.0	0.0	12.9
Steam Turbine-Facade 03	Leq,D	99.6	29	255.00	-59.1	3.4	-24.5	-5.1		0.0	2.3	0.0	0.0	16.6
Steam Turbine-Facade 04	Leq,D	96.2	13	255.37	-59.1	3.4	-24.5	-5.0		0.0	2.4	0.0	0.0	13.5
Steam Turbine-Roof 01	Leq,D	99.7	30	256.74	-59.2	2.8	-24.3	-4.8		0.0	2.5	0.0	0.0	16.7
Tank Farm Pump 1	Leq,D	99.0	3	385.68	-62.7	3.7	-24.0	-2.5		0.0	0.0	0.0	0.0	13.4
Tank Farm Pump 2	Leq,D	99.0	3	402.03	-63.1	3.7	-22.9	-2.2		0.0	0.0	0.0	0.0	14.5
Tank Farm Pump 3	Leq,D	99.0	3	406.81	-63.2	3.7	-22.8	-2.2		0.0	0.4	0.0	0.0	15.0
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	323.01	-61.2	4.1	-8.0	-3.1	-0.01	0.0	0.2	-11.8	0.0	32.7
XF-1502 Splitter Area 1	Leq,D	104.5		219.28	-57.8	1.4	-15.7	-1.0	-0.51	-3.0	8.5	0.0	0.0	36.4
XF-1502 Splitter Area 2	Leq,D	104.5		223.01	-58.0	1.4	-15.7	-1.0	-0.58	-3.0	8.4	0.0	0.0	36.1
XF-1504 Splitter Area 1	Leq,D	104.5		219.84	-57.8	1.4	-20.6	-1.1	0.00	-3.3	0.8	0.0	0.0	23.8
XF-1504 Splitter Area 2	Leq,D	104.5		223.55	-58.0	1.4	-15.4	-1.0	-0.58	-3.0	0.3	0.0	0.0	28.1
XF 251, 250, 271, 270	Leq,D	101.1	128	401.42	-63.1	1.2	-17.7	-0.7		-1.2	3.7	0.0	0.0	23.3
XF 260, 261A, 261 B	Leq,D	99.9	97	379.66	-62.6	1.1	-17.2	-0.6	0.00	-1.2	2.5	0.0	0.0	21.8
XF 304, XF 321	Leq,D	110.5	56	193.34	-56.7	2.7	-16.4	-0.3	-0.28	-1.5	0.0	0.0	0.0	38.0
XF 313, XF 314	Leq,D	113.0	18	163.51	-55.3	2.8	-19.5	-0.4		-2.6	0.1	0.0	0.0	38.1
XF 335-1, XF 335-2	Leq,D	113.4	54	181.20	-56.2	2.7	-16.8	-0.4	-0.23	-1.7	0.7	0.0	0.0	41.6
XF 353A/B	Leq,D	95.4	35	468.06	-64.4	1.4	-17.7	-0.8	-0.01	-1.2	0.7	0.0	0.0	13.5
XF 353A/B	Leq,D	95.4	35	443.34	-63.9	1.3	-17.8	-0.7		-1.2	0.6	0.0	0.0	13.7
XF 354A/B	Leq,D	95.4	35	471.67	-64.5	1.5	-17.0	-0.7	0.00	-1.2	2.0	0.0	0.0	15.6
XF 503	Leq,D	113.0	21	240.96	-58.6	2.4	-18.4	-1.1	-0.14	-2.9	0.0	0.0	0.0	34.3
XF - 1601	Leq,D	96.6		232.42	-58.3	0.4	-16.8	-0.4		-1.1	0.3	0.0	0.0	20.7
XF - 1602	Leq,D	96.6		233.60	-58.4	0.4	-11.2	-0.4		-1.0	6.2	0.0	0.0	32.3
XF Module 1510	Leq,D	108.3		226.16	-58.1	1.4	-15.5	-1.0	-0.43	-3.0	8.2	0.0	0.0	39.9
XF Module 1519	Leq,D	109.0		220.82	-57.9	1.4	-15.5	-1.0	-0.43	-3.0	8.2	0.0	0.0	40.7
xxxx xxxx xxxx xxxx	Leq,D		228								3.9			3.1
xxxx xxxx xxxx xxxx	Leq,D		520								4.5			20.8
xxxx xxxx xxxx xxxx	Leq,D		1341								11.0			26.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	Leq,D		450								15.6			14.6	
Receiver N-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 68.3 dB(A)		Ld 7-19 dB(A)		Leq,N 68.3 dB(A)		Le 19-22 dB(A)		CNEL 75.0 dB(A)		Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	227.09	-58.1	4.3	-21.9	-1.4		0.0	0.9	0.0	0.0	28.2	
18-1855 A/B	Leq,D	98.8		282.95	-60.0	5.0	-21.7	-1.1		0.0	0.0	0.0	0.0	21.0	
18-1856 A/B	Leq,D	98.8		287.58	-60.2	5.0	-22.8	-1.1		0.0	0.5	0.0	0.0	20.2	
18-1857 A/B	Leq,D	98.8		278.54	-59.9	5.0	-20.4	-0.9		0.0	0.0	0.0	0.0	22.5	
18-1858 A/B	Leq,D	98.8		275.64	-59.8	4.7	-20.6	-0.9		0.0	0.0	0.0	0.0	22.2	
18-PK 1802 Air Compressor Package	Leq,D	103.1		301.79	-60.6	5.0	-20.1	-0.6		0.0	0.0	0.0	0.0	26.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	253.47	-59.1	4.9	-7.7	-2.1	-0.16	0.0	0.1	-2.7	0.0	42.3	
Air Compressor C 1	Leq,D	110.0	5	85.65	-49.6	3.9	-16.8	-0.2		0.0	14.6	0.0	0.0	61.9	
Air Compressor Pump	Leq,D	100.3		250.52	-59.0	4.9	-20.0	-1.5		0.0	0.0	0.0	0.0	24.8	
Blower F 401	Leq,D	113.0		194.97	-56.8	4.6	-2.0	-0.3	-2.47	0.0	0.0	0.0	0.0	56.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	430.08	-63.7	5.0	-19.4	-0.9	-1.04	0.0	0.3	0.0	0.0	18.8	
Boiler Feed Water Pump A	Leq,D	97.1	3	269.68	-59.6	4.8	-21.1	-1.0		0.0	0.4	0.0	0.0	20.7	
Boiler Feed Water Pump B	Leq,D	97.1	3	272.18	-59.7	4.8	-21.0	-1.0		0.0	0.3	0.0	0.0	20.5	
C370 A Motor	Leq,D	103.6	3	211.76	-57.5	3.7	-15.4	-0.7		0.0	0.5	0.0	0.0	34.2	
C370 B Motor	Leq,D	108.6	3	217.66	-57.7	3.8	-18.2	-0.8		0.0	2.1	0.0	0.0	37.7	
C370A	Leq,D	103.8	5	208.09	-57.4	3.8	-16.7	-0.7		0.0	0.7	0.0	0.0	33.5	
C370B	Leq,D	103.8	5	214.09	-57.6	3.8	-19.0	-0.8		0.0	3.4	0.0	0.0	33.7	
C-270 A	Leq,D	106.3	6	364.83	-62.2	4.7	-17.4	-1.0	-0.37	0.0	0.6	0.0	0.0	30.5	
C-270 B	Leq,D	106.3	6	361.86	-62.2	4.7	-17.0	-1.0	-0.36	0.0	0.4	0.0	0.0	30.8	
C-270 C	Leq,D	106.3	6	358.93	-62.1	4.7	-16.9	-1.0	-0.43	0.0	0.1	0.0	0.0	30.6	
C-301 Compressor	Leq,D	106.8	3	356.47	-62.0	4.6	-16.1	-1.2	-0.16	0.0	0.0	0.0	0.0	31.9	
C-301 Motor	Leq,D	106.8	4	353.87	-62.0	4.6	-17.9	-1.9	-0.19	0.0	0.0	0.0	0.0	29.5	
C-351 Compressor	Leq,D	106.8	4	371.95	-62.4	4.7	-17.8	-1.2	-0.63	0.0	0.0	0.0	0.0	29.5	
C-351 Motor	Leq,D	106.8	5	375.57	-62.5	4.4	-18.8	-2.0	-0.63	0.0	0.5	0.0	0.0	27.9	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	240.30	-58.6	5.0	-6.1	-0.5	-0.35	0.0	0.0	-33.5	0.0	40.6	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	158.41	-55.0	3.8	-17.2	-0.4		4.6	0.2	0.0	0.0	40.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	152.40	-54.7	3.7	-9.4	-0.4	-0.04	0.0	0.7	0.0	0.0	40.4	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	153.19	-54.7	3.6	-4.9	-0.6	-0.54	0.4	0.4	0.0	0.0	50.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	163.64	-55.3	3.8	-18.8	-0.4	-0.52	-7.8	0.1	0.0	0.0	31.8	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	155.52	-54.8	3.7	-19.1	-0.4	-0.02	-7.8	0.1	0.0	0.0	25.4	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	161.92	-55.2	3.6	-17.4	-0.5	-0.79	-5.6	0.0	0.0	0.0	24.6	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	153.56	-54.7	3.5	-17.3	-0.5	-0.23	-3.8	1.4	0.0	0.0	26.2	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	151.42	-54.6	3.6	-2.5	-0.8	-0.01	3.8	0.0	0.0	0.0	47.4	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	161.79	-55.2	3.3	-16.3	-0.5		-5.3	4.7	0.0	0.0	31.3	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	156.27	-54.9	3.3	-6.5	-0.6	-0.35	4.4	0.2	0.0	0.0	46.3	
Cooling Tower M 512	Leq,D	95.7		158.77	-55.0	4.4	-19.1	-0.6	-0.58	0.0	0.1	0.0	0.0	24.9	
Cooling Tower M 513	Leq,D	95.7		158.66	-55.0	4.3	-18.1	-0.6	-0.44	0.0	0.1	0.0	0.0	26.0	
Cooling Tower M 514	Leq,D	95.7		159.17	-55.0	4.4	-19.5	-0.6	-0.71	0.0	0.1	0.0	0.0	24.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	244.82	-58.8	2.5	-17.0	-0.4		-1.4	0.0	0.0	0.0	20.6	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	212.75	-57.5	4.0	-14.6	-0.1		0.0	0.0	0.0	0.0	27.2	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	210.44	-57.5	4.0	-11.7	-0.1		0.0	0.2	0.0	0.0	28.2	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	211.72	-57.5	3.1	-10.6	-0.1		0.0	0.0	0.0	0.0	28.5	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	212.94	-57.6	4.0	-13.3	-0.1		0.0	0.0	0.0	0.0	26.2	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	210.63	-57.5	4.0	-9.5	-0.1		0.0	0.0	0.0	0.0	32.3	
FD Motor	Leq,D	103.3	2	213.68	-57.6	4.2	-24.2	-2.1		0.0	1.0	0.0	0.0	24.7	
Feed Compressor -B Motor	Leq,D	103.8	5	245.16	-58.8	4.0	-20.9	-1.5		0.0	4.3	0.0	0.0	30.9	
Feed Compressor-A Compressor	Leq,D	104.0	5	232.02	-58.3	4.1	-19.4	-0.8		0.0	0.0	0.0	0.0	29.5	
Feed Compressor-A Motor	Leq,D	103.8	6	236.33	-58.5	3.9	-20.8	-1.4		0.0	0.1	0.0	0.0	27.2	
Feed Compressor-B Compressor	Leq,D	104.0	7	240.56	-58.6	4.1	-19.6	-0.8		0.0	4.6	0.0	0.0	33.7	
H2S Compressor 18-C-271	Leq,D	105.3	6	119.88	-52.6	3.5	-13.7	-0.4		0.0	9.8	0.0	0.0	51.9	
Heater # 5-Heater	Leq,D	91.1	13	426.02	-63.6	5.0	-21.1	-1.1	-1.04	0.0	0.1	0.0	0.0	12.4	
Heater # 5-Heater	Leq,D	91.1	13	422.97	-63.5	5.0	-20.7	-1.1	-1.01	0.0	0.1	0.0	0.0	12.9	
Heater # 5-Heater	Leq,D	91.1	13	429.04	-63.6	5.0	-21.1	-1.1	-1.16	0.0	2.1	0.0	0.0	14.2	
Hydro Heater H-402	Leq,D	98.1		156.60	-54.9	4.5	-6.8	-0.3		0.0	0.1	0.0	0.0	40.7	
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	229.08	-58.2	4.5	-15.2	0.0		0.0	0.0	0.0	0.0	18.1	
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	230.49	-58.2	4.5	-15.1	0.0		0.0	0.0	0.0	0.0	18.4	
ID Fan-ID Fan - North	Leq,D	92.2	8	227.67	-58.1	4.5	-11.3	0.0		0.0	0.0	0.0	0.0	27.2	
ID Fan-ID Fan - North 2	Leq,D	91.4	7	230.27	-58.2	4.5	-13.0	0.0		0.0	0.0	0.0	0.0	24.6	
ID Fan-ID Fan - South	Leq,D	92.3	9	229.58	-58.2	4.5	-15.3	0.0		0.0	0.0	0.0	0.0	23.2	
ID Fan-ID Fan - South 2	Leq,D	91.4	7	231.17	-58.3	4.5	-14.8	0.0		0.0	0.0	0.0	0.0	22.7	
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	229.20	-58.2	3.9	-11.8	0.0		0.0	0.0	0.0	0.0	27.8	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 56A/B	Leq,D	93.7		140.96	-54.0	4.4	-7.0	-0.7	-1.15	0.0	0.2	0.0	0.0	35.5
Motor & Pump P 120/121	Leq,D	96.2	2	98.06	-50.8	3.9	-5.2	-0.5		0.0	5.7	0.0	0.0	49.4
Motor & Pump P 211/212	Leq,D	93.7		168.15	-55.5	4.8	-13.2	-0.7	-0.57	0.0	0.1	0.0	0.0	28.6
Motor & Pump P 215/214	Leq,D	94.6		163.19	-55.2	4.8	-15.0	-0.7	-0.46	0.0	2.0	0.0	0.0	30.0
Motor & Pump P 216	Leq,D	98.3		168.98	-55.5	4.6	-11.7	-0.7	-0.57	0.0	0.0	0.0	0.0	34.4
Motor & Pump P 217/218	Leq,D	93.7		166.32	-55.4	5.2	-14.9	-0.7	-0.53	0.0	0.5	0.0	0.0	27.7
Motor & Pump P 300	Leq,D	97.1	2	99.18	-50.9	4.1	-5.0	-0.4		0.0	0.4	0.0	0.0	45.3
Motor & Pump P 301	Leq,D	102.1	2	100.78	-51.1	4.1	-2.0	-0.5		0.0	0.1	0.0	0.0	52.8
Motor & Pump P 302	Leq,D	97.1	2	97.48	-50.8	4.0	-8.4	-0.3		0.0	0.8	0.0	0.0	42.4
Motor & Pump P 303	Leq,D	97.1	2	96.10	-50.6	3.9	-10.1	-0.3		0.0	1.3	0.0	0.0	41.2
Motor & Pump P 305	Leq,D	97.5	2	94.69	-50.5	3.8	-11.2	-0.3		0.0	1.6	0.0	0.0	40.9
Motor & Pump P 306	Leq,D	112.6	4	86.13	-49.7	3.2	-15.5	-0.4		0.0	5.0	0.0	0.0	55.3
Motor & Pump P 307	Leq,D	102.1	2	105.43	-51.5	4.2	-1.6	-0.6		0.0	0.0	0.0	0.0	52.7
Motor & Pump P 309	Leq,D	97.5	2	93.29	-50.4	3.8	-11.8	-0.3		0.0	1.7	0.0	0.0	40.5
Motor & Pump P 312	Leq,D	101.5	2	126.60	-53.0	4.7	-12.8	-0.4		0.0	0.1	0.0	0.0	40.0
Motor & Pump P 313	Leq,D	101.5	2	128.34	-53.2	4.7	-13.1	-0.4		0.0	0.1	0.0	0.0	39.7
Motor & Pump P 315	Leq,D	102.9	2	134.70	-53.6	4.6	-13.3	-0.4		0.0	0.0	0.0	0.0	40.2
Motor & Pump P 316	Leq,D	102.9	2	136.64	-53.7	4.6	-13.4	-0.4		0.0	0.0	0.0	0.0	40.0
Motor & Pump P 317	Leq,D	102.9	2	138.55	-53.8	4.5	-13.2	-0.4		0.0	0.0	0.0	0.0	39.9
Motor & Pump P 318	Leq,D	100.2	1	132.64	-53.4	4.9	-13.7	-0.4		0.0	0.0	0.0	0.0	37.5
Motor & Pump P 319	Leq,D	100.2	1	131.19	-53.3	4.9	-13.6	-0.4		0.0	0.2	0.0	0.0	37.9
Motor & Pump P 327	Leq,D	111.2	3	79.08	-49.0	3.4	-17.4	-0.5		0.0	3.5	0.0	0.0	51.4
Motor & Pump P 328	Leq,D	109.9	5	91.54	-50.2	3.3	-11.5	-0.3		0.0	2.4	0.0	0.0	53.6
Motor & Pump P 329	Leq,D	110.2	5	88.84	-50.0	3.3	-13.8	-0.3		0.0	3.2	0.0	0.0	52.5
Motor & Pump P 451	Leq,D	93.7		163.51	-55.3	4.6	-14.3	-0.8		0.0	0.0	0.0	0.0	27.9
Motor & Pump P 453	Leq,D	93.7		175.22	-55.9	4.7	-15.6	-0.9		0.0	0.1	0.0	0.0	26.1
Motor & Pump P 454	Leq,D	93.7		163.08	-55.2	4.6	-9.0	-0.8		0.0	0.6	0.0	0.0	33.8
Motor & Pump P 457	Leq,D	93.7		176.75	-55.9	4.7	-15.3	-0.9		0.0	0.3	0.0	0.0	26.5
Motor & Pump P 458	Leq,D	93.7		163.52	-55.3	4.6	-15.7	-0.8		0.0	0.0	0.0	0.0	26.5
Motor & Pump P 459	Leq,D	93.7		162.08	-55.2	4.6	-9.1	-0.8		0.0	0.6	0.0	0.0	33.8
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		135.53	-53.6	4.4	0.0	-1.3		0.0	0.1	0.0	0.0	45.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		133.85	-53.5	4.3	0.0	-1.3		0.0	0.1	0.0	0.0	45.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		102.49	-51.2	3.9	-9.7	-0.5	-0.08	0.0	1.2	0.0	0.0	39.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		101.36	-51.1	3.9	-10.1	-0.5	-0.05	0.0	0.8	0.0	0.0	38.3
Motor & Pump P 1601 A	Leq,D	96.3	2	141.00	-54.0	3.9	-9.2	-0.8	-0.07	0.0	1.4	0.0	0.0	37.7
Motor & Pump P 1601 B	Leq,D	96.3	2	141.50	-54.0	3.9	-17.1	-0.7		0.0	6.8	0.0	0.0	35.1
Motor & Pump P 1602 A	Leq,D	96.3	2	142.07	-54.0	3.9	-19.2	-0.8		0.0	5.5	0.0	0.0	31.6
Motor & Pump P 1602 B	Leq,D	96.5	2	142.57	-54.1	3.9	-9.3	-0.8		0.0	2.0	0.0	0.0	38.3
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	136.33	-53.7	4.4	0.0	-1.3	-0.65	0.0	1.2	0.0	0.0	46.6
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	131.53	-53.4	4.3	0.0	-1.3	-0.62	0.0	0.3	0.0	0.0	46.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	129.13	-53.2	4.3	0.0	-1.3	-0.61	0.0	0.1	0.0	0.0	45.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	132.46	-53.4	4.3	-0.1	-1.3		0.0	0.1	0.0	0.0	46.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	130.68	-53.3	4.3	-0.3	-1.3		0.0	0.1	0.0	0.0	46.2
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	125.61	-53.0	4.3	-14.2	-0.7	-0.20	0.0	0.0	0.0	0.0	32.6
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	125.05	-52.9	4.3	-7.3	-0.7	-0.57	0.0	4.4	0.0	0.0	43.5
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	124.24	-52.9	4.2	0.0	-1.3	-0.54	0.0	0.1	0.0	0.0	45.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	124.62	-52.9	4.3	-10.8	-0.6	-0.59	0.0	7.1	0.0	0.0	42.7
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	82.38	-49.3	3.0	0.0	-0.7		0.0	1.3	0.0	0.0	58.4
P-2 A/B	Leq,D	98.5		463.75	-64.3	5.3	-24.1	-1.9		0.0	0.7	0.0	0.0	14.2
P-50 A/B	Leq,D	98.1		420.89	-63.5	5.3	-24.4	-1.8	-0.83	0.0	7.6	0.0	0.0	20.5
P-51 A/B	Leq,D	98.1		423.74	-63.5	5.3	-24.5	-1.9	-0.23	0.0	0.0	0.0	0.0	13.3
P-060 A/B	Leq,D	98.1		413.77	-63.3	5.3	-22.5	-1.4	-0.49	0.0	6.0	0.0	0.0	21.7
P-63	Leq,D	98.5		447.40	-64.0	5.4	-21.3	-1.4	-1.59	0.0	0.0	0.0	0.0	15.5
P-70 A/B	Leq,D	98.1		416.91	-63.4	5.3	-24.5	-1.8	-0.68	0.0	0.3	0.0	0.0	13.4
P-73 A/B	Leq,D	98.5		460.40	-64.3	5.3	-24.3	-2.0		0.0	0.7	0.0	0.0	14.1
P-251 A/B	Leq,D	98.2		315.53	-61.0	5.3	-20.2	-1.0	-0.53	0.0	0.0	0.0	0.0	20.8
P-252 A/B	Leq,D	98.2		308.49	-60.8	5.3	-19.9	-1.0	-0.24	0.0	0.0	0.0	0.0	21.6
P-253	Leq,D	98.2		312.96	-60.9	5.3	-19.4	-1.0	-0.25	0.0	0.0	0.0	0.0	22.0
P-254 A/B	Leq,D	98.2		321.83	-61.1	5.3	-19.1	-1.0	-0.53	0.0	0.0	0.0	0.0	21.7
P-255 A/B	Leq,D	98.2		319.87	-61.1	5.3	-19.0	-1.0	-0.53	0.0	0.0	0.0	0.0	21.9
P-255 A/B	Leq,D	98.2		311.50	-60.9	5.3	-19.8	-1.0	-0.52	0.0	0.0	0.0	0.0	21.3
P-256 A/B	Leq,D	98.2		317.37	-61.0	5.3	-19.4	-1.0	-0.53	0.0	0.0	0.0	0.0	21.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-259 A/B	Leq,D	98.2		313.56	-60.9	5.3	-20.1	-1.0	-0.52	0.0	0.0	0.0	0.0	21.0
P-260	Leq,D	99.1		297.62	-60.5	5.3	-20.4	-1.0	-0.24	0.0	0.0	0.0	0.0	22.3
P-261 A/B	Leq,D	98.0		285.94	-60.1	5.3	-15.6	-0.9	-0.23	0.0	0.0	0.0	0.0	26.4
P-262 A/B	Leq,D	99.1		293.17	-60.3	5.3	-14.4	-0.9	-0.23	0.0	0.0	0.0	0.0	28.5
P-263 A/B	Leq,D	99.4		295.12	-60.4	5.3	-14.4	-0.9	-0.23	0.0	0.0	0.0	0.0	28.7
P-270 A/B	Leq,D	98.5		346.60	-61.8	5.3	-24.3	-1.5	-0.15	0.0	0.1	0.0	0.0	16.1
P-271 A/B	Leq,D	98.2		327.57	-61.3	5.3	-19.1	-1.0	-0.54	0.0	0.0	0.0	0.0	21.5
P-272 A/B	Leq,D	98.2		324.76	-61.2	5.3	-19.1	-1.0	-0.54	0.0	0.0	0.0	0.0	21.7
P-273 A/B	Leq,D	98.5		344.34	-61.7	5.3	-24.3	-1.5	-0.03	0.0	0.1	0.0	0.0	16.3
P-275 A/B/C	Leq,D	98.2		319.56	-61.1	5.3	-19.5	-1.0	-0.24	0.0	0.0	0.0	0.0	21.7
P-305	Leq,D	99.3		400.63	-63.0	5.4	-19.0	-1.2	-0.89	0.0	0.0	0.0	0.0	20.5
P-306	Leq,D	100.8		406.75	-63.2	5.4	-21.6	-1.3	-1.11	0.0	0.0	0.0	0.0	19.0
P-309	Leq,D	99.3		402.03	-63.1	5.4	-21.5	-1.3	-0.91	0.0	0.0	0.0	0.0	17.9
P-328	Leq,D	100.8		410.46	-63.3	5.4	-21.6	-1.3	-1.34	0.0	0.0	0.0	0.0	18.7
P-329	Leq,D	100.8		408.54	-63.2	5.4	-21.6	-1.3	-1.23	0.0	0.0	0.0	0.0	18.8
P-353	Leq,D	98.5		390.79	-62.8	5.1	-20.0	-1.2	-0.84	0.0	0.0	0.0	0.0	18.7
P-358 A/B	Leq,D	99.4		385.19	-62.7	5.3	-23.7	-1.6	-0.87	0.0	0.0	0.0	0.0	15.8
P-359 A/B	Leq,D	99.4		388.77	-62.8	5.3	-22.1	-1.5	-1.01	0.0	0.0	0.0	0.0	17.4
P-360 A/B	Leq,D	99.4		395.74	-62.9	5.3	-23.6	-1.6	-1.26	0.0	0.0	0.0	0.0	15.3
P-361A	Leq,D	98.1		399.50	-63.0	5.1	-19.5	-1.3	-0.27	0.0	3.4	0.0	0.0	22.5
P-371 A/B	Leq,D	98.0		187.45	-56.5	4.6	-16.9	-0.6		0.0	1.5	0.0	0.0	30.2
P-373 A/B	Leq,D	98.0		193.86	-56.7	4.7	-7.3	-0.7		0.0	0.0	0.0	0.0	37.9
P-374 A/B	Leq,D	98.0		192.23	-56.7	4.7	-7.2	-0.7		0.0	0.1	0.0	0.0	38.1
P-375 A/B	Leq,D	98.0		188.68	-56.5	4.6	-8.0	-0.7		0.0	0.1	0.0	0.0	37.6
P-376	Leq,D	98.0		191.28	-56.6	4.7	-7.8	-0.7		0.0	0.1	0.0	0.0	37.7
P-376 A/B	Leq,D	98.0		195.56	-56.8	4.7	-6.1	-0.7		0.0	0.0	0.0	0.0	39.0
P-377	Leq,D	98.0		190.30	-56.6	4.6	-7.9	-0.7		0.0	0.1	0.0	0.0	37.5
P-1101 A	Leq,D	98.9		443.97	-63.9	5.1	-21.8	-1.6		0.0	0.2	0.0	0.0	16.9
P-1103	Leq,D	98.9		442.82	-63.9	5.1	-21.6	-1.6		0.0	0.2	0.0	0.0	17.1
P-1105 A/B/C	Leq,D	98.9		448.11	-64.0	5.1	-21.8	-1.6	-0.40	0.0	0.3	0.0	0.0	16.5
P-1800	Leq,D	98.9		495.68	-64.9	5.4	-23.4	-1.8		0.0	3.0	0.0	0.0	17.2
P-1801	Leq,D	98.9		530.91	-65.5	5.3	-25.0	-2.4		0.0	2.5	0.0	0.0	13.9
P-1802	Leq,D	98.9		529.28	-65.5	5.3	-25.0	-2.4		0.0	0.7	0.0	0.0	12.1
P-1803	Leq,D	99.1		400.81	-63.1	5.3	-24.7	-1.8		0.0	0.4	0.0	0.0	15.1
P-1804	Leq,D	99.1		420.78	-63.5	5.3	-24.4	-1.8		0.0	6.8	0.0	0.0	21.5
P-1805	Leq,D	99.1		423.23	-63.5	5.3	-24.4	-1.8		0.0	6.4	0.0	0.0	21.1
P-1806	Leq,D	99.1		382.03	-62.6	5.3	-18.7	-1.2		0.0	3.9	0.0	0.0	25.7
P-1809 A	Leq,D	98.9		501.35	-65.0	5.4	-22.2	-1.6		0.0	5.1	0.0	0.0	20.5
P-1810 A/B/C	Leq,D	99.0		418.02	-63.4	5.3	-24.8	-1.9		0.0	0.0	0.0	0.0	14.1
P-1811 A/B	Leq,D	99.1		387.38	-62.8	5.3	-19.0	-1.2		0.0	2.2	0.0	0.0	23.6
P-1811 A/B	Leq,D	99.1		426.33	-63.6	5.3	-24.3	-1.8		0.0	0.5	0.0	0.0	15.2
P-1847 A/B	Leq,D	99.4		355.61	-62.0	5.1	-23.0	-1.3		0.0	0.0	0.0	0.0	18.2
P-1849 A/B	Leq,D	99.4		361.35	-62.2	5.1	-22.9	-1.3		0.0	0.0	0.0	0.0	18.1
P-1853	Leq,D	99.1		362.15	-62.2	5.4	-18.0	-1.1	-0.90	0.0	0.0	0.0	0.0	22.4
Piping Furnace Tanks	Leq,D	87.1	72	199.67	-57.0	2.8	-22.0	-4.2		0.0	4.3	0.0	0.0	11.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	202.71	-57.1	2.9	-23.4	-4.6		0.0	6.1	0.0	0.0	22.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	163.97	-55.3	3.1	-24.8	-1.6		0.0	2.0	0.0	0.0	38.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	166.72	-55.4	3.2	-24.8	-5.2		0.0	2.6	0.0	0.0	35.5
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	445.91	-64.0	3.8	-24.0	-1.9		0.0	0.1	0.0	0.0	24.5
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	415.51	-63.4	3.6	-17.9	-1.3		0.0	0.0	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	395.14	-62.9	3.6	-19.1	-1.2		0.0	0.1	0.0	0.0	24.5
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	434.78	-63.8	3.7	-23.3	-1.8		0.0	0.2	0.0	0.0	26.3
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	403.61	-63.1	3.7	-22.4	-1.6		0.0	0.1	0.0	0.0	20.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	397.12	-63.0	3.6	-20.2	-1.3		0.0	0.8	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	395.41	-62.9	3.6	-18.8	-1.2		0.0	0.0	0.0	0.0	27.3
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	411.35	-63.3	3.7	-21.6	-1.5		0.0	0.3	0.0	0.0	23.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	422.94	-63.5	2.4	-18.4	-1.3		0.0	0.0	0.0	0.0	32.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	175.95	-55.9	2.8	-19.9	-1.1		0.0	0.1	0.0	0.0	6.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	162.29	-55.2	3.1	-24.8	-1.6		0.0	2.3	0.0	0.0	40.5
Reformer-Burner Reformer East	Leq,D	97.3	269	198.63	-57.0	2.6	-8.9	-1.0		0.0	0.0	0.0	0.0	36.1
Reformer-Burner Reformer North	Leq,D	95.9	192	195.97	-56.8	2.6	-7.5	-1.1		0.0	0.1	0.0	0.0	33.1
Reformer-Burner Reformer South	Leq,D	95.8	191	210.38	-57.5	2.6	-23.0	-1.3		0.0	2.3	0.0	0.0	21.9
Reformer-Burner Reformer West	Leq,D	97.3	268	207.40	-57.3	2.6	-22.8	-1.3		0.0	1.7	0.0	0.0	23.1
RFG A from battery to process	Leq,D	99.4	87	205.73	-57.3	2.9	-23.5	-4.8		0.0	4.3	0.0	0.0	21.0
RFG A from battery to process w NC	Leq,D	115.2	42	164.48	-55.3	3.2	-24.9	-5.3		0.0	1.7	0.0	0.0	34.6
Stack Noise	Leq,D	108.4		235.10	-58.4	2.5	-6.8	-0.5		-5.2	0.0	0.0	0.0	40.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Steam Turbine-Facade 01	Leq,D	99.6	29	175.40	-55.9	4.2	-23.6	-3.1		0.0	0.3	0.0	0.0	21.6	
Steam Turbine-Facade 02	Leq,D	96.2	13	175.92	-55.9	4.2	-24.3	-3.6		0.0	0.4	0.0	0.0	17.1	
Steam Turbine-Facade 03	Leq,D	99.6	29	172.22	-55.7	4.2	-23.3	-3.0		0.0	0.4	0.0	0.0	22.2	
Steam Turbine-Facade 04	Leq,D	96.2	13	171.74	-55.7	4.1	-21.4	-2.3		0.0	0.5	0.0	0.0	21.6	
Steam Turbine-Roof 01	Leq,D	99.7	30	173.81	-55.8	3.2	-23.8	-3.1		0.0	3.1	0.0	0.0	23.4	
Tank Farm Pump 1	Leq,D	99.0	3	334.07	-61.5	4.9	-22.9	-1.9		0.0	1.8	0.0	0.0	19.5	
Tank Farm Pump 2	Leq,D	99.0	3	352.98	-61.9	5.0	-22.8	-1.9		0.0	0.0	0.0	0.0	17.3	
Tank Farm Pump 3	Leq,D	99.0	3	358.41	-62.1	5.0	-22.2	-1.9		0.0	1.2	0.0	0.0	19.0	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	253.28	-59.1	4.1	-6.1	-2.4	-0.12	0.0	0.1	-11.8	0.0	37.1	
XF-1502 Splitter Area 1	Leq,D	104.5		128.29	-53.2	2.8	-0.1	-1.0	-0.61	-4.4	0.2	0.0	0.0	48.4	
XF-1502 Splitter Area 2	Leq,D	104.5		131.95	-53.4	2.8	0.0	-1.0	-0.68	-4.2	0.2	0.0	0.0	48.2	
XF-1504 Splitter Area 1	Leq,D	104.5		129.30	-53.2	2.8	-0.2	-1.0	-0.61	-4.5	0.0	0.0	0.0	47.8	
XF-1504 Splitter Area 2	Leq,D	104.5		132.93	-53.5	2.8	-0.2	-1.1	-0.69	-4.5	0.2	0.0	0.0	47.6	
XF 251, 250, 271, 270	Leq,D	101.1	128	323.45	-61.2	3.0	-13.4	-0.5		-1.4	0.0	0.0	0.0	27.7	
XF 260, 261A, 261 B	Leq,D	99.9	97	295.73	-60.4	2.8	-2.3	-1.0	-0.01	-2.7	0.0	0.0	0.0	36.2	
XF 304, XF 321	Leq,D	110.5	56	104.14	-51.3	3.0	-8.2	-0.2	-0.15	-2.1	0.1	0.0	0.0	51.6	
XF 313, XF 314	Leq,D	113.0	18	76.61	-48.7	3.0	-10.7	-0.2		-2.9	1.5	0.0	0.0	55.1	
XF 335-1, XF 335-2	Leq,D	113.4	54	92.80	-50.3	3.0	-9.0	-0.3	-0.15	-2.2	0.4	0.0	0.0	54.8	
XF 353A/B	Leq,D	95.4	35	396.19	-63.0	3.4	-13.4	-0.6	0.00	-1.5	0.0	0.0	0.0	20.4	
XF 353A/B	Leq,D	95.4	35	372.04	-62.4	3.2	-12.7	-0.6		-1.5	0.0	0.0	0.0	21.5	
XF 354A/B	Leq,D	95.4	35	395.05	-62.9	3.4	-12.9	-0.6	0.00	-1.4	0.0	0.0	0.0	21.2	
XF 503	Leq,D	113.0	21	148.82	-54.4	3.0	-2.3	-1.9	-0.24	-3.8	0.0	0.0	0.0	53.4	
XF - 1601	Leq,D	96.6		143.50	-54.1	2.7	-4.2	-0.3		-1.7	0.0	0.0	0.0	38.9	
XF - 1602	Leq,D	96.6		145.49	-54.2	2.7	-0.2	-0.5		-2.7	0.0	0.0	0.0	41.5	
XF Module 1510	Leq,D	108.3		134.55	-53.6	2.9	0.0	-1.0	-0.26	-4.2	0.2	0.0	0.0	52.3	
XF Module 1519	Leq,D	109.0		129.27	-53.2	2.9	0.0	-1.0	-0.25	-4.2	0.2	0.0	0.0	53.3	
xxxx xxxx xxxx xxxx	Leq,D		228								8.1			9.1	
xxxx xxxx xxxx xxxx	Leq,D		520								7.3			36.1	
xxxx xxxx xxxx xxxx	Leq,D		1341								7.9			37.4	
xxxx xxxx xxxx xxxx	Leq,D		450								9.8			12.1	
Receiver N-4 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 61.3 dB(A)		Ld 7-19	dB(A)	Leq,N 61.3 dB(A)		Le 19-22	dB(A)	CNEL 68.0 dB(A)		Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	160.20	-55.1	3.9	-24.0	-1.3		0.0	2.5	0.0	0.0	30.4	
18-1855 A/B	Leq,D	98.8		234.15	-58.4	4.9	-22.2	-0.9		0.0	1.4	0.0	0.0	23.6	
18-1856 A/B	Leq,D	98.8		237.03	-58.5	4.9	-22.4	-0.9		0.0	1.4	0.0	0.0	23.3	
18-1857 A/B	Leq,D	98.8		231.51	-58.3	4.9	-21.3	-0.8		0.0	1.3	0.0	0.0	24.5	
18-1858 A/B	Leq,D	98.8		229.89	-58.2	4.6	-5.1	-1.1		0.0	2.2	0.0	0.0	41.1	
18-PK 1802 Air Compressor Package	Leq,D	103.1		251.40	-59.0	5.0	-19.9	-0.5		0.0	1.2	0.0	0.0	30.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	267.80	-59.5	4.9	-14.1	-2.2	-0.16	0.0	1.4	-2.7	0.0	36.6	
Air Compressor C 1	Leq,D	110.0	5	139.45	-53.9	4.2	-15.7	-0.4		0.0	1.7	0.0	0.0	46.0	
Air Compressor Pump	Leq,D	100.3		226.41	-58.1	4.8	-23.8	-2.5		0.0	4.1	0.0	0.0	24.8	
Blower F 401	Leq,D	113.0		218.78	-57.8	4.1	-14.4	-0.3	-0.42	0.0	0.3	0.0	0.0	44.6	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	382.34	-62.6	4.9	-22.0	-1.0	-1.36	0.0	2.0	0.0	0.0	18.5	
Boiler Feed Water Pump A	Leq,D	97.1	3	215.07	-57.6	4.7	-23.1	-1.1		0.0	0.3	0.0	0.0	20.3	
Boiler Feed Water Pump B	Leq,D	97.1	3	218.14	-57.8	4.7	-23.0	-1.1		0.0	1.0	0.0	0.0	21.0	
C370 A Motor	Leq,D	103.6	3	182.26	-56.2	3.4	-15.0	-0.5		0.0	2.1	0.0	0.0	37.4	
C370 B Motor	Leq,D	108.6	3	183.91	-56.3	3.4	-8.2	-0.9		0.0	2.3	0.0	0.0	48.9	
C370A	Leq,D	103.8	5	177.89	-56.0	3.5	-16.2	-0.6		0.0	2.1	0.0	0.0	36.5	
C370B	Leq,D	103.8	5	179.59	-56.1	3.5	-10.6	-0.8		0.0	2.0	0.0	0.0	41.7	
C-270 A	Leq,D	106.3	6	316.02	-61.0	4.5	-20.9	-1.0	-0.31	0.0	1.4	0.0	0.0	29.1	
C-270 B	Leq,D	106.3	6	314.02	-60.9	4.5	-20.8	-1.0	-0.10	0.0	1.5	0.0	0.0	29.5	
C-270 C	Leq,D	106.3	6	312.06	-60.9	4.5	-20.8	-1.0	0.00	0.0	5.6	0.0	0.0	33.8	
C-301 Compressor	Leq,D	106.8	3	301.57	-60.6	4.5	-22.0	-1.1	-0.13	0.0	0.1	0.0	0.0	27.6	
C-301 Motor	Leq,D	106.8	4	299.65	-60.5	4.5	-23.4	-2.1	-0.15	0.0	0.0	0.0	0.0	25.1	
C-351 Compressor	Leq,D	106.8	4	318.82	-61.1	4.5	-21.4	-1.2	-0.53	0.0	0.0	0.0	0.0	27.1	
C-351 Motor	Leq,D	106.8	5	323.03	-61.2	4.3	-23.2	-2.2	-0.73	0.0	0.1	0.0	0.0	23.8	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	265.70	-59.5	4.9	-12.8	-0.5	-0.27	0.0	1.2	-33.5	0.0	34.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	201.07	-57.1	3.7	-19.4	-0.5	-0.52	2.8	0.8	0.0	0.0	34.4	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	194.52	-56.8	3.6	-15.2	-0.6	-0.51	0.0	1.1	0.0	0.0	32.1	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	200.40	-57.0	3.5	-15.3	-0.4	-0.39	2.4	2.9	0.0	0.0	42.1	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	209.41	-57.4	3.7	-21.3	-0.6	-0.34	-7.8	1.0	0.0	0.0	27.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	197.85	-56.9	3.6	-20.5	-0.6	-0.51	-7.8	0.9	0.0	0.0	22.0	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	212.46	-57.5	3.7	-21.5	-0.9	-0.51	-7.7	1.1	0.0	0.0	17.1	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	159.82	-55.1	3.5	-19.2	-0.5		4.1	1.1	0.0	0.0	31.7	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	164.84	-55.3	3.5	-21.4	-0.7	-0.22	-6.1	1.0	0.0	0.0	18.5	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	153.82	-54.7	3.1	-15.3	-0.4		4.5	0.7	0.0	0.0	38.5
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	158.60	-55.0	3.3	-22.9	-0.8		-5.1	1.5	0.0	0.0	21.7
Cooling Tower M 512	Leq,D	95.7		168.25	-55.5	4.4	-23.3	-0.8		0.0	1.7	0.0	0.0	22.1
Cooling Tower M 513	Leq,D	95.7		168.92	-55.5	4.3	-22.1	-0.8		0.0	1.3	0.0	0.0	22.9
Cooling Tower M 514	Leq,D	95.7		167.80	-55.5	4.4	-23.3	-0.8		0.0	1.6	0.0	0.0	22.1
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	187.52	-56.5	2.5	-21.6	-0.5		-1.6	0.1	0.0	0.0	18.3
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	146.89	-54.3	3.5	-16.7	0.0		0.0	0.0	0.0	0.0	27.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	144.39	-54.2	3.5	-15.5	0.0		0.0	0.0	0.0	0.0	26.9
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	146.23	-54.3	2.8	-13.3	0.0		0.0	0.0	0.0	0.0	28.6
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	147.98	-54.4	3.4	-16.5	0.0		0.0	0.1	0.0	0.0	25.7
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	145.46	-54.2	3.4	-13.7	0.0		0.0	0.0	0.0	0.0	30.8
FD Motor	Leq,D	103.3	2	147.53	-54.4	3.7	-24.6	-1.6		0.0	2.0	0.0	0.0	28.4
Feed Compressor -B Motor	Leq,D	103.8	5	201.82	-57.1	3.6	-4.8	-2.2		0.0	2.3	0.0	0.0	45.7
Feed Compressor-A Compressor	Leq,D	104.0	5	192.49	-56.7	3.8	-7.5	-1.0		0.0	2.5	0.0	0.0	45.1
Feed Compressor-A Motor	Leq,D	103.8	6	197.63	-56.9	3.6	-7.1	-1.6		0.0	2.5	0.0	0.0	44.3
Feed Compressor-B Compressor	Leq,D	104.0	7	196.18	-56.8	3.8	-4.7	-1.4		0.0	2.2	0.0	0.0	47.0
H2S Compressor 18-C-271	Leq,D	105.3	6	162.09	-55.2	3.9	-18.8	-0.6	-0.27	0.0	2.1	0.0	0.0	36.5
Heater # 5-Heater	Leq,D	91.1	13	378.20	-62.5	4.9	-23.0	-1.2	-1.37	0.0	2.4	0.0	0.0	13.4
Heater # 5-Heater	Leq,D	91.1	13	376.00	-62.5	4.9	-23.0	-1.2	-0.94	0.0	1.4	0.0	0.0	12.8
Heater # 5-Heater	Leq,D	91.1	13	380.41	-62.6	4.9	-23.0	-1.2	-1.23	0.0	3.5	0.0	0.0	14.5
Hydro Heater H-402	Leq,D	98.1		180.44	-56.1	4.2	-17.1	-0.4	-0.51	0.0	0.5	0.0	0.0	28.8
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	162.39	-55.2	4.0	-16.2	0.0		0.0	0.0	0.0	0.0	19.6
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	164.32	-55.3	4.1	-16.1	0.0		0.0	0.0	0.0	0.0	19.9
ID Fan-ID Fan - North	Leq,D	92.2	8	161.20	-55.1	4.0	-13.1	0.0		0.0	0.0	0.0	0.0	28.0
ID Fan-ID Fan - North 2	Leq,D	91.4	7	163.41	-55.3	4.0	-14.7	0.0		0.0	0.0	0.0	0.0	25.5
ID Fan-ID Fan - South	Leq,D	92.3	9	163.86	-55.3	4.1	-16.7	0.0		0.0	0.0	0.0	0.0	24.4
ID Fan-ID Fan - South 2	Leq,D	91.4	7	164.65	-55.3	4.1	-16.1	0.0		0.0	0.0	0.0	0.0	24.0
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	162.96	-55.2	3.2	-13.4	0.0		0.0	0.0	0.0	0.0	28.5
Motor & Pump P 56A/B	Leq,D	93.7		171.55	-55.7	4.4	-19.1	-1.0	-0.23	0.0	0.9	0.0	0.0	23.1
Motor & Pump P 120/121	Leq,D	96.2	2	147.05	-54.3	4.2	-14.2	-0.5	-0.01	0.0	3.4	0.0	0.0	34.8
Motor & Pump P 211/212	Leq,D	93.7		203.26	-57.2	4.7	-18.7	-1.1	-0.94	0.0	2.0	0.0	0.0	22.6
Motor & Pump P 215/214	Leq,D	94.6		199.36	-57.0	4.8	-21.1	-1.2	-0.90	0.0	2.9	0.0	0.0	22.1
Motor & Pump P 216	Leq,D	98.3		206.90	-57.3	4.6	-20.8	-1.2	-1.03	0.0	1.5	0.0	0.0	24.2
Motor & Pump P 217/218	Leq,D	93.7		201.87	-57.1	5.1	-21.4	-1.2	-0.93	0.0	3.2	0.0	0.0	21.3
Motor & Pump P 300	Leq,D	97.1	2	155.00	-54.8	4.3	-13.8	-0.5		0.0	2.6	0.0	0.0	35.0
Motor & Pump P 301	Leq,D	102.1	2	156.02	-54.9	4.3	-14.3	-0.5		0.0	3.7	0.0	0.0	40.4
Motor & Pump P 302	Leq,D	97.1	2	153.93	-54.7	4.3	-10.7	-0.5		0.0	0.9	0.0	0.0	36.3
Motor & Pump P 303	Leq,D	97.1	2	153.13	-54.7	4.2	-10.7	-0.5		0.0	1.5	0.0	0.0	36.9
Motor & Pump P 305	Leq,D	97.5	2	152.26	-54.6	4.2	-15.5	-0.5		0.0	4.4	0.0	0.0	35.4
Motor & Pump P 306	Leq,D	112.6	4	147.06	-54.3	3.8	-18.6	-0.6		0.0	0.3	0.0	0.0	43.2
Motor & Pump P 307	Leq,D	102.1	2	159.04	-55.0	4.3	-7.0	-0.6		0.0	2.6	0.0	0.0	46.3
Motor & Pump P 309	Leq,D	97.5	2	151.39	-54.6	4.2	-17.9	-0.5		0.0	6.7	0.0	0.0	35.4
Motor & Pump P 312	Leq,D	101.5	2	173.67	-55.8	4.7	-21.7	-0.7	-0.30	0.0	4.2	0.0	0.0	31.8
Motor & Pump P 313	Leq,D	101.5	2	174.93	-55.8	4.7	-21.7	-0.7	-0.30	0.0	4.7	0.0	0.0	32.4
Motor & Pump P 315	Leq,D	102.9	2	179.74	-56.1	4.6	-18.5	-0.6	-0.31	0.0	1.2	0.0	0.0	33.1
Motor & Pump P 316	Leq,D	102.9	2	181.19	-56.2	4.6	-17.3	-0.6	-0.32	0.0	1.0	0.0	0.0	34.1
Motor & Pump P 317	Leq,D	102.9	2	182.58	-56.2	4.5	-16.9	-0.6	-0.32	0.0	1.1	0.0	0.0	34.4
Motor & Pump P 318	Leq,D	100.2	1	177.96	-56.0	4.8	-20.6	-0.7	-0.31	0.0	2.1	0.0	0.0	29.5
Motor & Pump P 319	Leq,D	100.2	1	176.89	-55.9	4.8	-20.6	-0.7	-0.31	0.0	7.5	0.0	0.0	34.9
Motor & Pump P 327	Leq,D	111.2	3	143.52	-54.1	4.2	-16.8	-0.9		0.0	2.7	0.0	0.0	46.4
Motor & Pump P 328	Leq,D	109.9	5	150.23	-54.5	3.9	-14.1	-0.5		0.0	3.3	0.0	0.0	48.0
Motor & Pump P 329	Leq,D	110.2	5	148.61	-54.4	3.9	-14.6	-0.5		0.0	1.3	0.0	0.0	45.8
Motor & Pump P 451	Leq,D	93.7		185.86	-56.4	4.5	-21.0	-1.0	-0.50	0.0	1.3	0.0	0.0	20.5
Motor & Pump P 453	Leq,D	93.7		194.85	-56.8	4.6	-18.3	-1.0	-0.46	0.0	0.6	0.0	0.0	22.3
Motor & Pump P 454	Leq,D	93.7		186.21	-56.4	4.5	-21.6	-1.2		0.0	1.2	0.0	0.0	20.2
Motor & Pump P 457	Leq,D	93.7		196.22	-56.8	4.6	-18.3	-1.0	-0.43	0.0	0.6	0.0	0.0	22.3
Motor & Pump P 458	Leq,D	93.7		185.30	-56.3	4.5	-20.9	-1.0	-0.58	0.0	1.0	0.0	0.0	20.3
Motor & Pump P 459	Leq,D	93.7		185.34	-56.4	4.5	-22.1	-1.3		0.0	1.2	0.0	0.0	19.6
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		153.69	-54.7	4.4	-22.8	-1.1	-0.57	0.0	7.0	0.0	0.0	28.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		152.22	-54.6	4.4	-22.8	-1.1	-0.57	0.0	3.7	0.0	0.0	25.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		119.03	-52.5	4.1	-23.2	-1.0	-0.09	0.0	1.6	0.0	0.0	24.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		118.08	-52.4	4.1	-23.1	-1.0	-0.06	0.0	1.5	0.0	0.0	24.4
Motor & Pump P 1601 A	Leq,D	96.3	2	141.28	-54.0	3.9	-22.6	-1.0		0.0	4.8	0.0	0.0	27.3
Motor & Pump P 1601 B	Leq,D	96.3	2	140.76	-54.0	3.9	-22.2	-0.9		0.0	4.2	0.0	0.0	27.3
Motor & Pump P 1602 A	Leq,D	96.3	2	140.58	-54.0	3.9	-22.2	-0.9		0.0	3.2	0.0	0.0	26.3
Motor & Pump P 1602 B	Leq,D	96.5	2	140.11	-53.9	3.9	-22.1	-0.9		0.0	2.7	0.0	0.0	26.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	148.78	-54.4	4.5	-21.4	-1.0	-0.37	0.0	2.4	0.0	0.0	26.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	144.47	-54.2	4.4	-22.5	-1.0	-0.24	0.0	5.8	0.0	0.0	28.8	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	142.30	-54.1	4.4	-22.9	-1.1	-0.32	0.0	7.9	0.0	0.0	30.5	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	150.67	-54.6	4.4	-22.8	-1.1	-0.57	0.0	2.1	0.0	0.0	24.2	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	149.11	-54.5	4.4	-22.8	-1.1	-0.56	0.0	3.9	0.0	0.0	26.1	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	134.61	-53.6	4.4	-23.0	-1.0	-0.05	0.0	6.7	0.0	0.0	29.7	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	135.64	-53.6	4.4	-23.3	-1.0	-0.18	0.0	9.0	0.0	0.0	31.6	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	137.60	-53.8	4.3	-23.3	-1.1	-0.33	0.0	8.4	0.0	0.0	30.6	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	136.75	-53.7	4.4	-23.2	-1.1	-0.25	0.0	8.7	0.0	0.0	31.1	
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	119.17	-52.5	3.2	-19.1	-0.4		0.0	5.8	0.0	0.0	41.2	
P-2 A/B	Leq,D	98.5		400.80	-63.1	5.3	-22.3	-1.4	-0.48	0.0	1.5	0.0	0.0	18.2	
P-50 A/B	Leq,D	98.1		359.92	-62.1	5.3	-24.4	-1.6	-0.61	0.0	1.9	0.0	0.0	16.6	
P-51 A/B	Leq,D	98.1		363.26	-62.2	5.3	-20.7	-1.1	-0.70	0.0	0.8	0.0	0.0	19.6	
P-060 A/B	Leq,D	98.1		351.59	-61.9	5.3	-24.5	-1.6	-0.35	0.0	3.8	0.0	0.0	18.9	
P-63	Leq,D	98.5		389.14	-62.8	5.4	-20.1	-1.2	-1.34	0.0	1.5	0.0	0.0	19.9	
P-70 A/B	Leq,D	98.1		355.28	-62.0	5.3	-24.7	-1.7	-0.41	0.0	2.0	0.0	0.0	16.6	
P-73 A/B	Leq,D	98.5		397.95	-63.0	5.3	-24.6	-1.8		0.0	2.0	0.0	0.0	16.3	
P-251 A/B	Leq,D	98.2		277.44	-59.9	5.3	-10.2	-1.0	-0.46	0.0	2.2	0.0	0.0	34.2	
P-252 A/B	Leq,D	98.2		268.17	-59.6	5.3	-11.1	-0.9	-0.21	0.0	2.1	0.0	0.0	33.8	
P-253	Leq,D	98.2		270.63	-59.6	5.3	-5.3	-1.2	-0.21	0.0	2.2	0.0	0.0	39.2	
P-254 A/B	Leq,D	98.2		280.80	-60.0	5.3	-9.7	-1.0	-0.46	0.0	4.4	0.0	0.0	36.7	
P-255 A/B	Leq,D	98.2		279.71	-59.9	5.3	-10.2	-1.0	-0.46	0.0	2.2	0.0	0.0	34.2	
P-255 A/B	Leq,D	98.2		275.33	-59.8	5.3	-10.2	-1.0	-0.45	0.0	2.2	0.0	0.0	34.3	
P-256 A/B	Leq,D	98.2		278.36	-59.9	5.3	-10.2	-1.0	-0.46	0.0	2.1	0.0	0.0	34.2	
P-259 A/B	Leq,D	98.2		276.39	-59.8	5.3	-10.2	-1.0	-0.46	0.0	2.2	0.0	0.0	34.2	
P-260	Leq,D	99.1		262.66	-59.4	5.3	-10.7	-0.9	-0.20	0.0	2.3	0.0	0.0	35.5	
P-261 A/B	Leq,D	98.0		258.18	-59.2	5.3	-15.8	-0.8	-0.21	0.0	2.1	0.0	0.0	29.4	
P-262 A/B	Leq,D	99.1		260.72	-59.3	5.3	-23.9	-1.1	-0.20	0.0	2.4	0.0	0.0	22.2	
P-263 A/B	Leq,D	99.4		261.43	-59.3	5.3	-22.8	-1.0	-0.20	0.0	10.7	0.0	0.0	32.1	
P-270 A/B	Leq,D	98.5		295.66	-60.4	5.3	-23.9	-1.2	-0.22	0.0	2.0	0.0	0.0	20.1	
P-271 A/B	Leq,D	98.2		284.13	-60.1	5.3	-5.2	-1.3	-0.45	0.0	2.2	0.0	0.0	38.6	
P-272 A/B	Leq,D	98.2		282.47	-60.0	5.3	-5.2	-1.3	-0.45	0.0	2.2	0.0	0.0	38.7	
P-273 A/B	Leq,D	98.5		294.14	-60.4	5.3	-23.3	-1.1	-0.04	0.0	1.8	0.0	0.0	20.8	
P-275 A/B/C	Leq,D	98.2		274.37	-59.8	5.3	-21.7	-0.9	-0.21	0.0	1.6	0.0	0.0	22.4	
P-305	Leq,D	99.3		353.91	-62.0	5.4	-23.6	-1.4	-0.45	0.0	2.0	0.0	0.0	19.2	
P-306	Leq,D	100.8		358.30	-62.1	5.4	-22.2	-1.2	-1.42	0.0	1.7	0.0	0.0	21.0	
P-309	Leq,D	99.3		354.88	-62.0	5.4	-23.6	-1.4	-0.70	0.0	2.0	0.0	0.0	18.9	
P-328	Leq,D	100.8		361.04	-62.1	5.4	-23.2	-1.3	-1.49	0.0	2.7	0.0	0.0	20.7	
P-329	Leq,D	100.8		359.58	-62.1	5.4	-22.1	-1.2	-1.48	0.0	1.7	0.0	0.0	20.9	
P-353	Leq,D	98.5		342.14	-61.7	5.1	-23.2	-1.3	-0.98	0.0	1.8	0.0	0.0	18.2	
P-358 A/B	Leq,D	99.4		330.24	-61.4	5.3	-21.5	-1.1	-0.76	0.0	0.0	0.0	0.0	20.0	
P-359 A/B	Leq,D	99.4		334.39	-61.5	5.3	-23.3	-1.3	-0.88	0.0	0.0	0.0	0.0	17.8	
P-360 A/B	Leq,D	99.4		342.44	-61.7	5.3	-22.7	-1.2	-1.03	0.0	0.0	0.0	0.0	18.1	
P-361A	Leq,D	98.1		334.86	-61.5	5.0	-20.7	-1.1	-0.29	0.0	1.8	0.0	0.0	21.4	
P-371 A/B	Leq,D	98.0		177.49	-56.0	4.6	-18.5	-0.6		0.0	0.6	0.0	0.0	28.1	
P-373 A/B	Leq,D	98.0		174.40	-55.8	4.5	-22.6	-0.7		0.0	2.0	0.0	0.0	25.4	
P-374 A/B	Leq,D	98.0		174.61	-55.8	4.5	-22.1	-0.7		0.0	1.5	0.0	0.0	25.4	
P-375 A/B	Leq,D	98.0		175.32	-55.9	4.5	-19.9	-0.6		0.0	0.8	0.0	0.0	27.0	
P-376	Leq,D	98.0		174.87	-55.8	4.5	-21.8	-0.7		0.0	1.4	0.0	0.0	25.5	
P-376 A/B	Leq,D	98.0		174.12	-55.8	4.5	-22.9	-0.8		0.0	2.2	0.0	0.0	25.2	
P-377	Leq,D	98.0		174.99	-55.9	4.5	-21.6	-0.7		0.0	1.2	0.0	0.0	25.6	
P-1101 A	Leq,D	98.9		379.96	-62.6	5.1	-23.5	-1.5	-0.43	0.0	2.7	0.0	0.0	18.7	
P-1103	Leq,D	98.9		378.96	-62.6	5.1	-23.6	-1.5	-0.46	0.0	2.8	0.0	0.0	18.6	
P-1105 A/B/C	Leq,D	98.9		383.45	-62.7	5.1	-23.1	-1.4	-0.26	0.0	3.1	0.0	0.0	19.6	
P-1800	Leq,D	98.9		432.67	-63.7	5.4	-22.2	-1.4	-0.48	0.0	4.7	0.0	0.0	21.2	
P-1801	Leq,D	98.9		462.93	-64.3	5.3	-24.9	-2.1		0.0	5.4	0.0	0.0	18.3	
P-1802	Leq,D	98.9		461.08	-64.3	5.3	-25.0	-2.1		0.0	4.9	0.0	0.0	17.8	
P-1803	Leq,D	99.1		333.44	-61.5	5.3	-24.7	-1.6		0.0	5.9	0.0	0.0	22.5	
P-1804	Leq,D	99.1		353.79	-62.0	5.3	-24.2	-1.5		0.0	3.3	0.0	0.0	20.0	
P-1805	Leq,D	99.1		355.88	-62.0	5.3	-24.1	-1.5		0.0	3.4	0.0	0.0	20.2	
P-1806	Leq,D	99.1		317.66	-61.0	5.3	-21.1	-1.0		0.0	1.8	0.0	0.0	23.0	
P-1809 A	Leq,D	98.9		436.63	-63.8	5.4	-22.0	-1.4		0.0	3.8	0.0	0.0	20.8	
P-1810 A/B/C	Leq,D	99.0		349.04	-61.8	5.3	-24.9	-1.7		0.0	2.0	0.0	0.0	17.9	
P-1811 A/B	Leq,D	99.1		322.14	-61.2	5.3	-21.1	-1.0		0.0	1.8	0.0	0.0	22.9	
P-1811 A/B	Leq,D	99.1		358.56	-62.1	5.3	-24.7	-1.6		0.0	1.9	0.0	0.0	18.0	
P-1847 A/B	Leq,D	99.4		280.37	-59.9	5.1	-23.1	-1.1		0.0	1.8	0.0	0.0	22.2	
P-1849 A/B	Leq,D	99.4		285.49	-60.1	5.1	-23.0	-1.1		0.0	1.8	0.0	0.0	22.2	
P-1853	Leq,D	99.1		323.20	-61.2	5.3	-7.7	-1.2	-0.78	0.0	2.2	0.0	0.0	35.8	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Furnace Tanks	Leq,D	87.1	72	151.41	-54.6	2.8	-8.1	-5.7		0.0	3.5	0.0	0.0	25.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	160.91	-55.1	2.9	-5.6	-5.7		0.0	3.3	0.0	0.0	38.0
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	131.59	-53.4	2.8	-17.8	-1.1		0.0	2.4	0.0	0.0	47.6
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	133.36	-53.5	2.9	-19.1	-3.4		0.0	2.8	0.0	0.0	44.8
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	366.25	-62.3	3.6	-23.4	-1.5		0.0	2.0	0.0	0.0	28.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	335.22	-61.5	3.4	-9.7	-1.4		0.0	2.8	0.0	0.0	44.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	317.62	-61.0	3.4	-17.8	-1.0		0.0	4.7	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	358.75	-62.1	3.6	-24.3	-1.6		0.0	2.1	0.0	0.0	28.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	328.05	-61.3	3.5	-24.3	-1.5		0.0	2.1	0.0	0.0	22.5
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	318.77	-61.1	3.4	-16.7	-1.1		0.0	7.7	0.0	0.0	35.9
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	319.20	-61.1	3.4	-18.3	-1.0		0.0	1.4	0.0	0.0	31.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	336.26	-61.5	3.5	-23.3	-1.4		0.0	4.4	0.0	0.0	27.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	344.79	-61.7	2.5	-13.7	-1.4		0.0	5.6	0.0	0.0	44.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	133.92	-53.5	2.8	-14.9	-0.9		0.0	0.5	0.0	0.0	14.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	131.39	-53.4	2.8	-22.0	-1.2		0.0	2.3	0.0	0.0	45.2
Reformer-Burner Reformer East	Leq,D	97.3	269	140.04	-53.9	2.7	-4.2	-1.3		0.0	1.4	0.0	0.0	45.0
Reformer-Burner Reformer North	Leq,D	95.9	192	142.13	-54.0	2.7	-1.6	-1.5		0.0	2.1	0.0	0.0	43.6
Reformer-Burner Reformer South	Leq,D	95.8	191	150.30	-54.5	2.7	-24.3	-1.2		0.0	3.9	0.0	0.0	25.4
Reformer-Burner Reformer West	Leq,D	97.3	268	152.25	-54.6	2.7	-20.7	-0.9		0.0	1.0	0.0	0.0	27.7
RFG A from battery to process	Leq,D	99.4	87	161.99	-55.2	2.8	-5.0	-5.8		0.0	3.1	0.0	0.0	39.4
RFG A from battery to process w NC	Leq,D	115.2	42	130.59	-53.3	2.9	-19.8	-3.3		0.0	2.7	0.0	0.0	44.3
Stack Noise	Leq,D	108.4		168.35	-55.5	2.6	-4.5	-1.0		-6.3	0.4	0.0	0.0	44.0
Steam Turbine-Facade 01	Leq,D	99.6	29	149.40	-54.5	3.9	-24.5	-3.4		0.0	1.9	0.0	0.0	23.1
Steam Turbine-Facade 02	Leq,D	96.2	13	147.53	-54.4	3.9	-24.6	-3.4		0.0	2.0	0.0	0.0	19.8
Steam Turbine-Facade 03	Leq,D	99.6	29	145.68	-54.3	3.8	-24.5	-3.3		0.0	1.9	0.0	0.0	23.3
Steam Turbine-Facade 04	Leq,D	96.2	13	147.58	-54.4	3.9	-24.4	-3.3		0.0	1.8	0.0	0.0	19.9
Steam Turbine-Roof 01	Leq,D	99.7	30	147.54	-54.4	2.8	-24.5	-3.3		0.0	1.9	0.0	0.0	22.4
Tank Farm Pump 1	Leq,D	99.0	3	257.05	-59.2	4.9	-23.5	-1.5		0.0	4.8	0.0	0.0	24.4
Tank Farm Pump 2	Leq,D	99.0	3	274.12	-59.8	4.9	-22.5	-1.4		0.0	5.1	0.0	0.0	25.3
Tank Farm Pump 3	Leq,D	99.0	3	279.11	-59.9	4.9	-22.3	-1.4		0.0	6.3	0.0	0.0	26.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	307.49	-60.7	4.0	-7.3	-3.4	-0.07	0.0	0.9	-11.8	0.0	34.0
XF-1502 Splitter Area 1	Leq,D	104.5		140.06	-53.9	2.7	-18.9	-0.6	0.00	-2.9	0.4	0.0	0.0	31.3
XF-1502 Splitter Area 2	Leq,D	104.5		143.40	-54.1	2.7	-17.8	-0.5	-0.04	-2.6	0.5	0.0	0.0	32.6
XF-1504 Splitter Area 1	Leq,D	104.5		138.09	-53.8	2.7	-17.9	-0.5	-0.04	-2.6	0.5	0.0	0.0	32.9
XF-1504 Splitter Area 2	Leq,D	104.5		141.48	-54.0	2.7	-17.8	-0.5	-0.04	-2.6	0.7	0.0	0.0	33.0
XF 251, 250, 271, 270	Leq,D	101.1	128	279.36	-59.9	2.6	-6.8	-1.0		-2.6	1.0	0.0	0.0	34.4
XF 260, 261A, 261 B	Leq,D	99.9	97	265.51	-59.5	2.6	-10.7	-0.9	-0.21	-2.6	0.9	0.0	0.0	29.5
XF 304, XF 321	Leq,D	110.5	56	161.66	-55.2	2.3	-6.5	-0.4	-0.08	-2.4	0.2	0.0	0.0	48.5
XF 313, XF 314	Leq,D	113.0	18	145.65	-54.3	2.3	-9.1	-0.4		-3.1	1.0	0.0	0.0	49.4
XF 335-1, XF 335-2	Leq,D	113.4	54	154.60	-54.8	2.4	-7.7	-0.6	-0.08	-2.6	0.1	0.0	0.0	50.3
XF 353A/B	Leq,D	95.4	35	341.11	-61.7	3.1	-17.8	-0.5	0.00	-1.4	0.0	0.0	0.0	17.1
XF 353A/B	Leq,D	95.4	35	316.26	-61.0	2.9	-18.0	-0.5		-1.4	0.0	0.0	0.0	17.5
XF 354A/B	Leq,D	95.4	35	347.56	-61.8	3.2	-15.4	-0.5	0.00	-1.2	0.4	0.0	0.0	20.2
XF 503	Leq,D	113.0	21	184.33	-56.3	2.6	-15.7	-0.8	-0.53	-2.9	0.5	0.0	0.0	40.0
XF - 1601	Leq,D	96.6		142.34	-54.1	2.6	-16.6	-0.2		-0.8	1.1	0.0	0.0	28.6
XF - 1602	Leq,D	96.6		140.54	-53.9	2.6	-9.8	-0.3		-1.3	0.2	0.0	0.0	34.0
XF Module 1510	Leq,D	108.3		149.38	-54.5	2.7	-20.3	-0.6	-0.22	-2.6	0.8	0.0	0.0	33.6
XF Module 1519	Leq,D	109.0		144.67	-54.2	2.7	-20.7	-0.6	-0.19	-2.6	2.5	0.0	0.0	35.9
xxxx xxxx xxxx xxxx	Leq,D		228								6.9			13.0
xxxx xxxx xxxx xxxx	Leq,D		520								5.0			36.3
xxxx xxxx xxxx xxxx	Leq,D		1341								6.0			41.3
xxxx xxxx xxxx xxxx	Leq,D		450								12.2			14.6
Receiver N-5 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 59.1	dB(A)	Ld 7-19	dB(A)	Leq,N 59.1	dB(A)	Le 19-22	dB(A)	CNEL 65.8	dB(A)	Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	128.37	-53.2	3.5	-20.9	-0.7		0.0	6.5	0.0	0.0	39.6	
18-1855 A/B	Leq,D	98.8		215.21	-57.6	4.8	-19.4	-0.7		0.0	1.5	0.0	0.0	27.4	
18-1856 A/B	Leq,D	98.8		215.38	-57.7	4.8	-19.1	-0.7		0.0	1.6	0.0	0.0	27.8	
18-1857 A/B	Leq,D	98.8		215.24	-57.7	4.8	-21.3	-0.8		0.0	1.6	0.0	0.0	25.5	
18-1858 A/B	Leq,D	98.8		215.51	-57.7	4.6	-16.6	-0.7		0.0	0.4	0.0	0.0	28.8	
18-PK 1802 Air Compressor Package	Leq,D	103.1		228.14	-58.2	5.0	-16.3	-0.4		0.0	0.6	0.0	0.0	33.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	300.43	-60.5	5.0	-16.5	-2.0	-0.12	0.0	1.2	-2.7	0.0	33.3	
Air Compressor C 1	Leq,D	110.0	5	219.73	-57.8	4.4	-22.5	-0.7		0.0	3.7	0.0	0.0	37.0	
Air Compressor Pump	Leq,D	100.3		237.66	-58.5	4.8	-24.0	-2.6		0.0	1.9	0.0	0.0	22.0	
Blower F 401	Leq,D	113.0		272.84	-59.7	4.3	-19.5	-0.4	-0.26	0.0	0.0	0.0	0.0	37.4	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	352.31	-61.9	4.9	-14.6	-0.7	-1.63	0.0	2.5	0.0	0.0	27.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Boiler Feed Water Pump A	Leq,D	97.1	3	191.05	-56.6	4.6	-12.0	-0.7		0.0	2.2	0.0	0.0	34.5
Boiler Feed Water Pump B	Leq,D	97.1	3	194.43	-56.8	4.6	-11.8	-0.7		0.0	2.1	0.0	0.0	34.5
C370 A Motor	Leq,D	103.6	3	195.76	-56.8	3.6	-22.5	-0.9		0.0	0.4	0.0	0.0	27.3
C370 B Motor	Leq,D	108.6	3	192.35	-56.7	3.5	-22.5	-0.9		0.0	1.7	0.0	0.0	33.8
C370A	Leq,D	103.8	5	191.59	-56.6	3.6	-22.6	-0.9		0.0	0.2	0.0	0.0	27.4
C370B	Leq,D	103.8	5	188.11	-56.5	3.6	-22.6	-0.9		0.0	1.4	0.0	0.0	28.9
C-270 A	Leq,D	106.3	6	288.70	-60.2	4.4	-4.2	-1.7	-0.64	0.0	1.9	0.0	0.0	45.9
C-270 B	Leq,D	106.3	6	288.09	-60.2	4.4	-4.4	-1.7	-0.34	0.0	2.0	0.0	0.0	46.1
C-270 C	Leq,D	106.3	6	287.49	-60.2	4.4	-4.6	-1.7		0.0	2.1	0.0	0.0	46.3
C-301 Compressor	Leq,D	106.8	3	267.47	-59.5	4.3	-2.5	-1.7	-0.12	0.0	1.8	0.0	0.0	49.1
C-301 Motor	Leq,D	106.8	4	266.61	-59.5	4.3	-3.2	-2.4	-0.13	0.0	1.8	0.0	0.0	47.8
C-351 Compressor	Leq,D	106.8	4	285.76	-60.1	4.4	-9.4	-1.2	-0.50	0.0	3.6	0.0	0.0	43.6
C-351 Motor	Leq,D	106.8	5	290.46	-60.3	4.1	-5.6	-2.5	-0.64	0.0	2.4	0.0	0.0	44.4
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	306.12	-60.7	5.0	-14.1	-0.6	-0.19	0.0	1.6	-33.5	0.0	32.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	269.24	-59.6	4.0	-21.4	-0.7	-0.55	1.8	1.2	0.0	0.0	29.5
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	263.00	-59.4	3.9	-19.1	-0.8	-0.62	0.0	1.2	0.0	0.0	25.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	271.31	-59.7	3.9	-18.0	-0.5	-0.30	3.1	1.0	0.0	0.0	36.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	278.68	-59.9	4.0	-22.9	-0.9	-0.54	-7.1	1.4	0.0	0.0	24.7
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	266.14	-59.5	3.9	-23.3	-1.0	-0.67	-7.1	1.6	0.0	0.0	17.8
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	284.22	-60.1	4.0	-22.4	-1.1	-0.44	-7.8	1.3	0.0	0.0	13.9
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	210.32	-57.4	3.9	-21.2	-0.7		2.4	0.0	0.0	0.0	24.8
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	219.39	-57.8	3.9	-23.5	-1.1	0.00	-7.8	0.0	0.0	0.0	11.6
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	194.39	-56.8	3.3	-20.4	-0.7		2.7	0.0	0.0	0.0	28.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	206.41	-57.3	3.6	-23.0	-1.0		-7.7	3.3	0.0	0.0	18.6
Cooling Tower M 512	Leq,D	95.7		219.38	-57.8	4.6	-24.4	-1.1		0.0	0.1	0.0	0.0	17.1
Cooling Tower M 513	Leq,D	95.7		220.49	-57.9	4.6	-24.4	-1.1		0.0	0.0	0.0	0.0	17.0
Cooling Tower M 514	Leq,D	95.7		218.40	-57.8	4.6	-24.4	-1.1		0.0	0.0	0.0	0.0	17.0
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	164.64	-55.3	2.6	-5.7	-0.5		-2.6	1.5	0.0	0.0	35.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	120.93	-52.6	3.2	-8.6	-0.1		0.0	0.5	0.0	0.0	37.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	118.90	-52.5	3.3	-9.9	-0.1		0.0	0.5	0.0	0.0	34.5
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	121.16	-52.7	2.8	-4.8	-0.1		0.0	1.0	0.0	0.0	39.7
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	123.19	-52.8	3.2	-12.5	0.0		0.0	0.5	0.0	0.0	31.5
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	121.13	-52.7	3.2	-12.4	0.0		0.0	0.4	0.0	0.0	33.8
FD Motor	Leq,D	103.3	2	120.80	-52.6	3.3	-21.7	-0.9		0.0	6.8	0.0	0.0	38.2
Feed Compressor -B Motor	Leq,D	103.8	5	195.16	-56.8	3.6	-24.1	-1.9		0.0	1.8	0.0	0.0	26.4
Feed Compressor-A Compressor	Leq,D	104.0	5	192.36	-56.7	3.8	-23.8	-1.1		0.0	1.6	0.0	0.0	27.8
Feed Compressor-A Motor	Leq,D	103.8	6	197.47	-56.9	3.6	-24.3	-2.0		0.0	1.9	0.0	0.0	26.0
Feed Compressor-B Compressor	Leq,D	104.0	7	189.32	-56.5	3.7	-23.4	-1.1		0.0	1.5	0.0	0.0	28.2
H2S Compressor 18-C-271	Leq,D	105.3	6	234.29	-58.4	4.3	-21.0	-0.9	-0.23	0.0	1.7	0.0	0.0	30.8
Heater # 5-Heater	Leq,D	91.1	13	348.28	-61.8	4.9	-20.1	-0.8	-1.59	0.0	4.9	0.0	0.0	19.6
Heater # 5-Heater	Leq,D	91.1	13	347.24	-61.8	4.9	-20.8	-0.9	-1.59	0.0	1.4	0.0	0.0	15.3
Heater # 5-Heater	Leq,D	91.1	13	349.37	-61.9	4.9	-19.8	-0.8	-1.59	0.0	5.2	0.0	0.0	20.1
Hydro Heater H-402	Leq,D	98.1		239.41	-58.6	4.4	-18.7	-0.5	-0.31	0.0	0.0	0.0	0.0	24.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	130.32	-53.3	3.6	-8.6	0.0		0.0	0.1	0.0	0.0	28.7
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	132.67	-53.4	3.7	-11.0	0.0		0.0	0.1	0.0	0.0	26.5
ID Fan-ID Fan - North	Leq,D	92.2	8	129.84	-53.3	3.7	-8.8	0.0		0.0	0.1	0.0	0.0	33.9
ID Fan-ID Fan - North 2	Leq,D	91.4	7	130.79	-53.3	3.7	-7.2	0.0		0.0	0.1	0.0	0.0	34.6
ID Fan-ID Fan - South	Leq,D	92.3	9	133.09	-53.5	3.7	-11.8	0.0		0.0	0.1	0.0	0.0	30.8
ID Fan-ID Fan - South 2	Leq,D	91.4	7	132.29	-53.4	3.7	-11.9	0.0		0.0	0.1	0.0	0.0	29.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	131.49	-53.4	2.9	-5.3	0.0		0.0	0.2	0.0	0.0	38.3
Motor & Pump P 56A/B	Leq,D	93.7		236.03	-58.5	4.7	-22.0	-1.4	-0.52	0.0	1.3	0.0	0.0	17.3
Motor & Pump P 120/121	Leq,D	96.2	2	224.40	-58.0	4.5	-22.2	-0.9	-0.20	0.0	1.7	0.0	0.0	21.1
Motor & Pump P 211/212	Leq,D	93.7		266.60	-59.5	4.9	-24.3	-2.0	-0.43	0.0	0.0	0.0	0.0	12.3
Motor & Pump P 215/214	Leq,D	94.6		263.79	-59.4	4.9	-9.1	-1.6	-1.05	0.0	0.5	0.0	0.0	28.9
Motor & Pump P 216	Leq,D	98.3		271.63	-59.7	4.8	-7.3	-1.8	-1.21	0.0	0.1	0.0	0.0	33.3
Motor & Pump P 217/218	Leq,D	93.7		265.63	-59.5	5.1	-19.0	-1.0	-1.09	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 300	Leq,D	97.1	2	234.39	-58.4	4.5	-21.9	-0.9		0.0	2.4	0.0	0.0	22.8
Motor & Pump P 301	Leq,D	102.1	2	235.06	-58.4	4.5	-21.4	-0.9		0.0	2.7	0.0	0.0	28.6
Motor & Pump P 302	Leq,D	97.1	2	233.69	-58.4	4.5	-21.0	-0.8		0.0	1.3	0.0	0.0	22.6
Motor & Pump P 303	Leq,D	97.1	2	233.20	-58.3	4.4	-21.4	-0.9		0.0	2.4	0.0	0.0	23.3
Motor & Pump P 305	Leq,D	97.5	2	232.64	-58.3	4.4	-22.6	-0.9		0.0	1.8	0.0	0.0	21.9
Motor & Pump P 306	Leq,D	112.6	4	229.25	-58.2	4.1	-22.7	-1.3		0.0	1.2	0.0	0.0	35.7
Motor & Pump P 307	Leq,D	102.1	2	237.05	-58.5	4.5	-21.7	-0.9	-0.15	0.0	3.7	0.0	0.0	29.1
Motor & Pump P 309	Leq,D	97.5	2	232.08	-58.3	4.4	-23.6	-1.0		0.0	2.0	0.0	0.0	21.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 312	Leq,D	101.5	2	247.01	-58.8	4.8	-21.9	-0.9	-0.25	0.0	2.4	0.0	0.0	26.8
Motor & Pump P 313	Leq,D	101.5	2	247.90	-58.9	4.8	-21.9	-0.9	-0.25	0.0	2.7	0.0	0.0	27.1
Motor & Pump P 315	Leq,D	102.9	2	251.38	-59.0	4.7	-21.4	-0.9	-0.32	0.0	3.0	0.0	0.0	29.0
Motor & Pump P 316	Leq,D	102.9	2	252.42	-59.0	4.7	-21.4	-0.9	-0.41	0.0	2.2	0.0	0.0	28.1
Motor & Pump P 317	Leq,D	102.9	2	253.37	-59.1	4.7	-21.3	-0.9	-0.40	0.0	2.3	0.0	0.0	28.2
Motor & Pump P 318	Leq,D	100.2	1	249.94	-58.9	4.9	-21.6	-0.9	-0.34	0.0	3.5	0.0	0.0	26.8
Motor & Pump P 319	Leq,D	100.2	1	249.18	-58.9	4.9	-21.6	-0.9	-0.30	0.0	2.8	0.0	0.0	26.1
Motor & Pump P 327	Leq,D	111.2	3	227.30	-58.1	4.5	-23.6	-1.6		0.0	3.6	0.0	0.0	36.0
Motor & Pump P 328	Leq,D	109.9	5	231.27	-58.3	4.2	-23.4	-1.0		0.0	1.8	0.0	0.0	33.3
Motor & Pump P 329	Leq,D	110.2	5	230.24	-58.2	4.3	-23.6	-1.0		0.0	1.9	0.0	0.0	33.5
Motor & Pump P 451	Leq,D	93.7		243.05	-58.7	4.8	-21.4	-1.2	-0.06	0.0	0.0	0.0	0.0	17.0
Motor & Pump P 453	Leq,D	93.7		248.90	-58.9	4.8	-23.6	-1.7		0.0	1.1	0.0	0.0	15.3
Motor & Pump P 454	Leq,D	93.7		243.88	-58.7	4.8	-23.4	-1.8		0.0	0.0	0.0	0.0	14.5
Motor & Pump P 457	Leq,D	93.7		249.97	-58.9	4.8	-23.6	-1.7		0.0	0.0	0.0	0.0	14.2
Motor & Pump P 458	Leq,D	93.7		242.19	-58.7	4.8	-22.3	-1.4	-0.03	0.0	0.1	0.0	0.0	16.1
Motor & Pump P 459	Leq,D	93.7		243.22	-58.7	4.8	-23.4	-1.8		0.0	0.0	0.0	0.0	14.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		213.53	-57.6	4.7	-22.5	-1.2	-0.36	0.0	1.5	0.0	0.0	20.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		212.48	-57.5	4.7	-22.4	-1.2	-0.36	0.0	1.4	0.0	0.0	20.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		185.89	-56.4	4.5	-24.1	-1.5	-0.15	0.0	2.6	0.0	0.0	20.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		185.29	-56.3	4.5	-24.1	-1.5	-0.10	0.0	2.6	0.0	0.0	20.4
Motor & Pump P 1601 A	Leq,D	96.3	2	191.73	-56.6	4.3	-23.3	-1.4		0.0	2.0	0.0	0.0	21.2
Motor & Pump P 1601 B	Leq,D	96.3	2	190.61	-56.6	4.3	-23.4	-1.4		0.0	2.0	0.0	0.0	21.2
Motor & Pump P 1602 A	Leq,D	96.3	2	189.91	-56.6	4.3	-23.4	-1.4		0.0	1.9	0.0	0.0	21.1
Motor & Pump P 1602 B	Leq,D	96.5	2	188.84	-56.5	4.3	-23.4	-1.4		0.0	0.0	0.0	0.0	19.4
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	205.92	-57.3	4.7	-23.2	-1.3	-0.22	0.0	0.0	0.0	0.0	19.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	202.89	-57.1	4.7	-23.1	-1.3	-0.21	0.0	1.3	0.0	0.0	20.9
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	201.35	-57.1	4.7	-22.9	-1.2	-0.21	0.0	1.9	0.0	0.0	21.8
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	211.13	-57.5	4.7	-22.1	-1.1	-0.37	0.0	1.2	0.0	0.0	21.6
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	210.03	-57.4	4.7	-13.0	-1.6	-0.34	0.0	0.0	0.0	0.0	29.0
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	192.83	-56.7	4.7	-23.2	-1.3	-0.03	0.0	1.7	0.0	0.0	21.4
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	194.63	-56.8	4.7	-22.8	-1.2	-0.09	0.0	1.4	0.0	0.0	21.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	197.88	-56.9	4.7	-13.3	-1.6	-0.19	0.0	0.2	0.0	0.0	29.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	196.46	-56.9	4.7	-14.7	-1.5	-0.15	0.0	0.3	0.0	0.0	28.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	195.81	-56.8	4.0	-22.7	-1.0		0.0	1.9	0.0	0.0	29.5
P-2 A/B	Leq,D	98.5		350.63	-61.9	5.4	-15.2	-1.0		0.0	0.4	0.0	0.0	26.2
P-50 A/B	Leq,D	98.1		314.09	-60.9	5.3	-23.6	-1.3	-0.59	0.0	1.9	0.0	0.0	18.9
P-51 A/B	Leq,D	98.1		317.93	-61.0	5.3	-23.4	-1.3	-0.59	0.0	1.8	0.0	0.0	19.0
P-060 A/B	Leq,D	98.1		304.54	-60.7	5.3	-18.0	-0.9	-0.54	0.0	1.9	0.0	0.0	25.2
P-63	Leq,D	98.5		345.58	-61.8	5.4	-15.5	-1.1	-0.45	0.0	0.4	0.0	0.0	25.5
P-70 A/B	Leq,D	98.1		308.79	-60.8	5.3	-17.9	-0.9	-0.55	0.0	2.2	0.0	0.0	25.4
P-73 A/B	Leq,D	98.5		348.55	-61.8	5.4	-19.4	-1.1	-0.14	0.0	1.0	0.0	0.0	22.3
P-251 A/B	Leq,D	98.2		266.65	-59.5	5.3	-16.4	-0.8	-0.46	0.0	6.0	0.0	0.0	32.3
P-252 A/B	Leq,D	98.2		255.69	-59.1	5.3	-14.2	-0.8	-0.20	0.0	3.6	0.0	0.0	32.7
P-253	Leq,D	98.2		255.46	-59.1	5.3	-7.6	-1.0	-0.20	0.0	1.1	0.0	0.0	36.6
P-254 A/B	Leq,D	98.2		266.16	-59.5	5.3	-7.4	-1.0	-0.43	0.0	1.2	0.0	0.0	36.3
P-255 A/B	Leq,D	98.2		266.23	-59.5	5.3	-13.9	-0.9	-0.44	0.0	2.3	0.0	0.0	31.1
P-255 A/B	Leq,D	98.2		267.02	-59.5	5.3	-11.0	-0.9	-0.45	0.0	2.3	0.0	0.0	33.9
P-256 A/B	Leq,D	98.2		266.39	-59.5	5.3	-13.8	-0.9	-0.44	0.0	3.7	0.0	0.0	32.5
P-259 A/B	Leq,D	98.2		266.80	-59.5	5.3	-11.0	-0.9	-0.45	0.0	2.3	0.0	0.0	33.9
P-260	Leq,D	99.1		257.15	-59.2	5.3	-7.1	-1.0	-0.20	0.0	2.4	0.0	0.0	39.3
P-261 A/B	Leq,D	98.0		261.28	-59.3	5.3	-23.6	-1.1	-0.20	0.0	1.7	0.0	0.0	20.8
P-262 A/B	Leq,D	99.1		258.30	-59.2	5.3	-23.2	-1.1	-0.20	0.0	1.8	0.0	0.0	22.5
P-263 A/B	Leq,D	99.4		257.53	-59.2	5.3	-7.1	-1.0	-0.19	0.0	0.1	0.0	0.0	37.2
P-270 A/B	Leq,D	98.5		267.24	-59.5	5.3	-5.7	-1.2	-0.21	0.0	2.4	0.0	0.0	39.5
P-271 A/B	Leq,D	98.2		266.22	-59.5	5.3	-11.5	-0.9	-0.44	0.0	2.1	0.0	0.0	33.3
P-272 A/B	Leq,D	98.2		266.14	-59.5	5.3	-11.6	-0.9	-0.44	0.0	1.7	0.0	0.0	32.7
P-273 A/B	Leq,D	98.5		266.80	-59.5	5.3	-5.8	-1.2	-0.13	0.0	2.4	0.0	0.0	39.5
P-275 A/B/C	Leq,D	98.2		255.26	-59.1	5.3	-12.8	-0.8	-0.19	0.0	2.2	0.0	0.0	32.7
P-305	Leq,D	99.3		326.69	-61.3	5.4	-5.2	-1.5	-1.40	0.0	2.3	0.0	0.0	37.6
P-306	Leq,D	100.8		328.69	-61.3	5.4	-14.3	-1.0	-1.55	0.0	3.7	0.0	0.0	31.6
P-309	Leq,D	99.3		327.07	-61.3	5.4	-5.1	-1.5	-1.48	0.0	2.3	0.0	0.0	37.5
P-328	Leq,D	100.8		330.06	-61.4	5.4	-14.2	-1.0	-1.55	0.0	7.0	0.0	0.0	34.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-329	Leq,D	100.8		329.26	-61.3	5.4	-14.4	-1.0	-1.55	0.0	9.7	0.0	0.0	37.6
P-353	Leq,D	98.5		313.25	-60.9	5.1	-3.8	-1.4	-1.18	0.0	1.8	0.0	0.0	38.0
P-358 A/B	Leq,D	99.4		294.05	-60.4	5.3	-4.8	-1.5	-0.64	0.0	0.2	0.0	0.0	37.6
P-359 A/B	Leq,D	99.4		298.67	-60.5	5.3	-4.8	-1.5	-0.75	0.0	0.3	0.0	0.0	37.6
P-360 A/B	Leq,D	99.4		307.65	-60.8	5.3	-1.9	-1.5	-0.95	0.0	1.3	0.0	0.0	41.0
P-361A	Leq,D	98.1		285.29	-60.1	5.0	-17.0	-0.9	-0.28	0.0	0.5	0.0	0.0	25.3
P-371 A/B	Leq,D	98.0		211.15	-57.5	4.7	-23.6	-0.9		0.0	0.0	0.0	0.0	20.7
P-373 A/B	Leq,D	98.0		199.93	-57.0	4.6	-23.8	-0.9		0.0	1.9	0.0	0.0	22.9
P-374 A/B	Leq,D	98.0		201.86	-57.1	4.7	-23.8	-0.9		0.0	2.1	0.0	0.0	23.0
P-375 A/B	Leq,D	98.0		206.39	-57.3	4.7	-23.5	-0.9		0.0	1.8	0.0	0.0	22.8
P-376	Leq,D	98.0		203.20	-57.2	4.7	-23.7	-0.9		0.0	1.5	0.0	0.0	22.4
P-376 A/B	Leq,D	98.0		197.78	-56.9	4.6	-24.5	-1.0		0.0	1.0	0.0	0.0	21.2
P-377	Leq,D	98.0		204.32	-57.2	4.7	-23.6	-0.9		0.0	1.8	0.0	0.0	22.8
P-1101 A	Leq,D	98.9		329.16	-61.3	5.1	-17.2	-0.9		0.0	0.5	0.0	0.0	25.0
P-1103	Leq,D	98.9		328.42	-61.3	5.1	-14.2	-1.0		0.0	0.3	0.0	0.0	27.8
P-1105 A/B/C	Leq,D	98.9		331.64	-61.4	5.1	-16.8	-1.0		0.0	0.5	0.0	0.0	25.3
P-1800	Leq,D	98.9		381.35	-62.6	5.4	-12.2	-1.2		0.0	0.7	0.0	0.0	29.0
P-1801	Leq,D	98.9		404.30	-63.1	5.4	-24.8	-1.9		0.0	5.1	0.0	0.0	19.5
P-1802	Leq,D	98.9		402.20	-63.1	5.4	-24.9	-1.9		0.0	4.4	0.0	0.0	18.9
P-1803	Leq,D	99.1		280.06	-59.9	5.3	-12.2	-0.9		0.0	0.6	0.0	0.0	31.8
P-1804	Leq,D	99.1		299.99	-60.5	5.3	-24.6	-1.4		0.0	1.9	0.0	0.0	19.8
P-1805	Leq,D	99.1		301.50	-60.6	5.3	-24.7	-1.4		0.0	2.0	0.0	0.0	19.6
P-1806	Leq,D	99.1		269.44	-59.6	5.3	-10.1	-0.9		0.0	0.4	0.0	0.0	34.1
P-1809 A	Leq,D	98.9		382.95	-62.7	5.4	-23.1	-1.4		0.0	1.7	0.0	0.0	18.8
P-1810 A/B/C	Leq,D	99.0		292.63	-60.3	5.3	-24.9	-1.4		0.0	2.0	0.0	0.0	19.7
P-1811 A/B	Leq,D	99.1		272.41	-59.7	5.3	-17.4	-0.8		0.0	0.4	0.0	0.0	26.8
P-1811 A/B	Leq,D	99.1		303.48	-60.6	5.3	-24.6	-1.4		0.0	3.3	0.0	0.0	21.0
P-1847 A/B	Leq,D	99.4		217.89	-57.8	5.1	-22.0	-0.8		0.0	1.8	0.0	0.0	25.8
P-1849 A/B	Leq,D	99.4		221.71	-57.9	5.1	-21.9	-0.8		0.0	1.8	0.0	0.0	25.7
P-1853	Leq,D	99.1		307.39	-60.7	5.3	-9.0	-1.1	-0.74	0.0	2.4	0.0	0.0	35.2
Piping Furnace Tanks	Leq,D	87.1	72	149.09	-54.5	2.8	-21.9	-3.6		0.0	1.6	0.0	0.0	11.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	166.97	-55.4	2.8	-24.5	-4.9		0.0	2.0	0.0	0.0	18.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	155.54	-54.8	3.0	-24.9	-1.5		0.0	0.9	0.0	0.0	37.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	155.36	-54.8	3.0	-24.9	-5.1		0.0	2.9	0.0	0.0	36.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	293.48	-60.3	3.4	-23.6	-1.3		0.0	0.3	0.0	0.0	29.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	262.46	-59.4	3.3	-18.4	-0.8		0.0	0.3	0.0	0.0	36.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	249.70	-58.9	3.3	-15.1	-0.8		0.0	0.9	0.0	0.0	33.4
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	291.81	-60.3	3.4	-23.3	-1.2		0.0	1.0	0.0	0.0	30.7
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	262.78	-59.4	3.3	-22.2	-1.0		0.0	1.9	0.0	0.0	26.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	249.49	-58.9	3.3	-18.4	-0.8		0.0	0.1	0.0	0.0	28.9
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	253.27	-59.1	3.3	-15.1	-0.8		0.0	1.0	0.0	0.0	36.1
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	271.38	-59.7	3.3	-21.1	-1.0		0.0	1.0	0.0	0.0	28.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	275.09	-59.8	2.6	-18.5	-0.9		0.0	0.8	0.0	0.0	37.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	147.11	-54.3	2.8	-22.8	-1.3		0.0	1.7	0.0	0.0	6.6
PSA Skid Additional Piping w NC	Leq,D	116.6	57	157.23	-54.9	3.0	-24.9	-1.5		0.0	1.0	0.0	0.0	39.2
Reformer-Burner Reformer East	Leq,D	97.3	269	128.35	-53.2	2.7	-11.7	-0.7		0.0	0.3	0.0	0.0	37.8
Reformer-Burner Reformer North	Leq,D	95.9	192	137.04	-53.7	2.7	-24.3	-1.2		0.0	2.6	0.0	0.0	22.0
Reformer-Burner Reformer South	Leq,D	95.8	191	132.68	-53.4	2.7	-2.9	-1.4		0.0	1.2	0.0	0.0	45.0
Reformer-Burner Reformer West	Leq,D	97.3	268	141.57	-54.0	2.7	-21.1	-0.8		0.0	0.8	0.0	0.0	27.9
RFG A from battery to process	Leq,D	99.4	87	165.33	-55.4	2.8	-24.5	-4.9		0.0	2.2	0.0	0.0	19.7
RFG A from battery to process w NC	Leq,D	115.2	42	152.99	-54.7	3.0	-24.9	-5.1		0.0	2.6	0.0	0.0	36.1
Stack Noise	Leq,D	108.4		134.74	-53.6	2.7	-1.3	-1.4		-8.2	1.4	0.0	0.0	48.0
Steam Turbine-Facade 01	Leq,D	99.6	29	174.90	-55.8	4.2	-24.7	-3.8		0.0	1.9	0.0	0.0	21.3
Steam Turbine-Facade 02	Leq,D	96.2	13	171.22	-55.7	4.2	-24.7	-3.8		0.0	2.1	0.0	0.0	18.4
Steam Turbine-Facade 03	Leq,D	99.6	29	171.75	-55.7	4.1	-24.6	-3.7		0.0	1.4	0.0	0.0	21.1
Steam Turbine-Facade 04	Leq,D	96.2	13	175.49	-55.9	4.2	-24.7	-3.9		0.0	0.5	0.0	0.0	16.4
Steam Turbine-Roof 01	Leq,D	99.7	30	173.33	-55.8	3.2	-24.4	-3.5		0.0	1.7	0.0	0.0	20.9
Tank Farm Pump 1	Leq,D	99.0	3	193.04	-56.7	4.7	-20.0	-1.0		0.0	2.2	0.0	0.0	28.2
Tank Farm Pump 2	Leq,D	99.0	3	205.93	-57.3	4.7	-18.8	-1.0		0.0	1.0	0.0	0.0	27.7
Tank Farm Pump 3	Leq,D	99.0	3	209.93	-57.4	4.7	-15.1	-1.0		0.0	0.4	0.0	0.0	30.7
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	372.38	-62.4	4.2	-10.2	-4.2	-0.03	0.0	0.3	-11.8	0.0	28.3
XF-1502 Splitter Area 1	Leq,D	104.5		198.75	-57.0	2.7	-7.3	-1.0	-0.05	-3.8	0.0	0.0	0.0	38.1
XF-1502 Splitter Area 2	Leq,D	104.5		201.10	-57.1	2.7	-10.4	-0.9	-0.04	-3.4	0.0	0.0	0.0	35.4
XF-1504 Splitter Area 1	Leq,D	104.5		195.32	-56.8	2.7	-10.5	-0.8	-0.03	-3.4	0.0	0.0	0.0	35.6
XF-1504 Splitter Area 2	Leq,D	104.5		197.71	-56.9	2.7	-12.6	-0.8	-0.03	-3.2	0.0	0.0	0.0	33.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 251, 250, 271, 270	Leq,D	101.1	128	261.06	-59.3	2.6	-5.1	-0.9		-2.7	1.3	0.0	0.0	37.0	
XF 260, 261A, 261 B	Leq,D	99.9	97	264.99	-59.5	2.6	-18.8	-0.4	0.00	-1.4	0.6	0.0	0.0	23.0	
XF 304, XF 321	Leq,D	110.5	56	241.15	-58.6	2.0	-17.0	-0.4	-0.04	-1.4	0.2	0.0	0.0	35.2	
XF 313, XF 314	Leq,D	113.0	18	230.75	-58.3	1.9	-18.7	-0.6		-2.5	0.3	0.0	0.0	35.2	
XF 335-1, XF 335-2	Leq,D	113.4	54	236.44	-58.5	2.1	-17.8	-0.5	-0.04	-1.5	0.2	0.0	0.0	37.4	
XF 353A/B	Leq,D	95.4	35	304.14	-60.7	2.9	-4.3	-0.7	-0.01	-2.2	0.3	0.0	0.0	30.6	
XF 353A/B	Leq,D	95.4	35	280.12	-59.9	2.6	-3.0	-1.5		-3.1	1.4	0.0	0.0	31.9	
XF 354A/B	Leq,D	95.4	35	319.85	-61.1	3.0	-2.9	-1.0	-0.02	-2.6	1.0	0.0	0.0	31.7	
XF 503	Leq,D	113.0	21	250.26	-59.0	2.5	-17.2	-0.8	-0.48	-2.6	0.8	0.0	0.0	36.3	
XF - 1601	Leq,D	96.6		191.48	-56.6	2.5	-15.1	-0.3		-1.0	0.0	0.0	0.0	26.1	
XF - 1602	Leq,D	96.6		187.27	-56.4	2.5	-15.7	-0.3		-1.0	0.0	0.0	0.0	25.7	
XF Module 1510	Leq,D	108.3		207.97	-57.4	2.7	-9.7	-0.9	-0.27	-3.5	0.0	0.0	0.0	39.2	
XF Module 1519	Leq,D	109.0		204.63	-57.2	2.6	-5.0	-1.3	-0.29	-4.1	0.0	0.0	0.0	43.7	
xxxx xxxx xxxx xxxx	Leq,D		228								7.8			12.9	
xxxx xxxx xxxx xxxx	Leq,D		520								4.8			38.9	
xxxx xxxx xxxx xxxx	Leq,D		1341								5.9			43.3	
xxxx xxxx xxxx xxxx	Leq,D		450								7.1			16.0	
Receiver N-6 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 55.8	dB(A)	Ld 7-19	dB(A)	Leq,N 56.0	dB(A)	Le 19-22	dB(A)	CNEL 62.6	dB(A)	Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	169.36	-55.6	4.0	-22.0	-1.1		0.0	2.6	0.0	0.0	32.2	
18-1855 A/B	Leq,D	98.8		243.65	-58.7	4.9	-19.1	-0.8		0.0	0.0	0.0	0.0	25.1	
18-1856 A/B	Leq,D	98.8		240.45	-58.6	4.9	-18.6	-0.8		0.0	0.2	0.0	0.0	25.9	
18-1857 A/B	Leq,D	98.8		246.87	-58.8	4.9	-19.6	-0.9		0.0	0.1	0.0	0.0	24.4	
18-1858 A/B	Leq,D	98.8		249.29	-58.9	4.7	-11.6	-0.8		0.0	0.0	0.0	0.0	32.2	
18-PK 1802 Air Compressor Package	Leq,D	103.1		248.54	-58.9	5.0	-16.1	-0.4		0.0	0.1	0.0	0.0	32.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	365.20	-62.2	5.1	-16.6	-1.0	-0.15	0.0	0.2	-2.7	0.0	31.5	
Air Compressor C 1	Leq,D	110.0	5	329.14	-61.3	4.2	-22.2	-1.0		0.0	3.5	0.0	0.0	33.1	
Air Compressor Pump	Leq,D	100.3		294.65	-60.4	5.0	-22.0	-2.2		0.0	0.0	0.0	0.0	20.7	
Blower F 401	Leq,D	113.0		362.83	-62.2	4.3	-16.2	-0.4	-0.20	0.0	0.0	0.0	0.0	38.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	346.58	-61.8	4.9	-7.9	-0.9	-1.62	0.0	0.6	0.0	0.0	31.8	
Boiler Feed Water Pump A	Leq,D	97.1	3	219.06	-57.8	4.7	-13.6	-0.7		0.0	0.0	0.0	0.0	29.7	
Boiler Feed Water Pump B	Leq,D	97.1	3	221.93	-57.9	4.7	-14.5	-0.7		0.0	0.1	0.0	0.0	28.7	
C370 A Motor	Leq,D	103.6	3	261.74	-59.3	4.0	-21.0	-1.1		0.0	0.3	0.0	0.0	26.4	
C370 B Motor	Leq,D	108.6	3	254.47	-59.1	4.0	-18.0	-1.0		0.0	0.0	0.0	0.0	34.6	
C370A	Leq,D	103.8	5	258.53	-59.2	4.1	-21.9	-1.2		0.0	0.0	0.0	0.0	25.6	
C370B	Leq,D	103.8	5	251.18	-59.0	4.1	-19.3	-1.0		0.0	0.1	0.0	0.0	28.6	
C-270 A	Leq,D	106.3	6	293.85	-60.4	4.5	-8.8	-1.1	-0.64	0.0	0.2	0.0	0.0	40.1	
C-270 B	Leq,D	106.3	6	295.17	-60.4	4.5	-9.6	-1.1	-0.65	0.0	0.3	0.0	0.0	39.3	
C-270 C	Leq,D	106.3	6	296.47	-60.4	4.5	-9.8	-1.1	-0.45	0.0	0.3	0.0	0.0	39.3	
C-301 Compressor	Leq,D	106.8	3	266.24	-59.5	4.3	-6.9	-1.1	-0.12	0.0	0.0	0.0	0.0	43.5	
C-301 Motor	Leq,D	106.8	4	267.02	-59.5	4.3	-9.5	-1.4	-0.14	0.0	0.0	0.0	0.0	40.6	
C-351 Compressor	Leq,D	106.8	4	283.34	-60.0	4.4	-4.1	-1.8	-0.50	0.0	0.0	0.0	0.0	44.8	
C-351 Motor	Leq,D	106.8	5	288.08	-60.2	4.1	-1.0	-3.5	-0.60	0.0	0.0	0.0	0.0	45.7	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	375.47	-62.5	5.0	-13.9	-0.5	-0.30	0.0	0.0	-33.5	0.0	29.1	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	369.57	-62.3	4.2	-20.4	-0.9	-1.00	0.9	0.1	0.0	0.0	25.4	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	363.80	-62.2	4.2	-19.7	-1.1	-0.69	0.0	0.0	0.0	0.0	21.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	373.48	-62.4	4.1	-17.7	-0.7	-0.37	4.0	0.0	0.0	0.0	33.4	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	379.46	-62.6	4.2	-22.7	-1.2	-0.77	-5.8	0.1	0.0	0.0	21.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	366.69	-62.3	4.1	-22.1	-1.1	-1.01	-5.8	0.2	0.0	0.0	15.7	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	386.50	-62.7	4.2	-22.5	-1.5	-0.45	-7.8	0.0	0.0	0.0	9.6	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	302.50	-60.6	4.2	-20.4	-0.9		1.1	0.0	0.0	0.0	21.3	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	313.47	-60.9	4.2	-22.7	-1.3		-7.8	0.1	0.0	0.0	9.5	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	281.73	-60.0	3.8	-16.6	-0.7		1.3	0.1	0.0	0.0	28.4	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	297.23	-60.5	4.0	-22.9	-1.3		-7.8	6.0	0.0	0.0	18.3	
Cooling Tower M 512	Leq,D	95.7		311.17	-60.9	4.8	-23.9	-1.4		0.0	0.0	0.0	0.0	14.4	
Cooling Tower M 513	Leq,D	95.7		312.49	-60.9	4.8	-23.8	-1.4		0.0	0.0	0.0	0.0	14.4	
Cooling Tower M 514	Leq,D	95.7		309.92	-60.8	4.8	-23.5	-1.4		0.0	0.0	0.0	0.0	14.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	201.80	-57.1	2.5	-13.0	-0.3		-1.4	0.1	0.0	0.0	26.6	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	172.13	-55.7	3.7	-12.4	0.0		0.0	0.1	0.0	0.0	31.0	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	171.61	-55.7	3.8	-13.7	0.0		0.0	0.0	0.0	0.0	27.4	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	173.10	-55.8	2.7	-11.2	0.0		0.0	0.1	0.0	0.0	29.3	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	174.56	-55.8	3.7	-12.6	0.0		0.0	0.1	0.0	0.0	28.5	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	174.02	-55.8	3.7	-13.8	0.0		0.0	0.1	0.0	0.0	29.4	
FD Motor	Leq,D	103.3	2	171.26	-55.7	4.0	-22.5	-1.4		0.0	4.0	0.0	0.0	31.6	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor -B Motor	Leq,D	103.8	5	241.94	-58.7	3.9	-17.6	-1.4		0.0	0.3	0.0	0.0	30.4
Feed Compressor-A Compressor	Leq,D	104.0	5	246.38	-58.8	4.1	-18.1	-0.8		0.0	0.0	0.0	0.0	30.4
Feed Compressor-A Motor	Leq,D	103.8	6	250.38	-59.0	4.0	-19.4	-1.4		0.0	0.0	0.0	0.0	28.0
Feed Compressor-B Compressor	Leq,D	104.0	7	237.25	-58.5	4.1	-13.6	-0.9		0.0	0.1	0.0	0.0	35.2
H2S Compressor 18-C-271	Leq,D	105.3	6	338.61	-61.6	4.5	-19.6	-1.1	-0.43	0.0	0.0	0.0	0.0	27.1
Heater # 5-Heater	Leq,D	91.1	13	343.09	-61.7	4.9	-14.0	-0.6	-1.45	0.0	3.7	0.0	0.0	24.9
Heater # 5-Heater	Leq,D	91.1	13	343.74	-61.7	4.9	-14.2	-0.6	-1.44	0.0	0.0	0.0	0.0	21.0
Heater # 5-Heater	Leq,D	91.1	13	342.52	-61.7	4.9	-17.9	-0.7	-1.55	0.0	0.2	0.0	0.0	17.4
Hydro Heater H-402	Leq,D	98.1		335.00	-61.5	4.5	-22.6	-1.1		0.0	0.0	0.0	0.0	17.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	170.10	-55.6	4.1	-10.2	0.0		0.0	0.2	0.0	0.0	25.4
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	171.85	-55.7	4.1	-13.1	0.0		0.0	0.0	0.0	0.0	22.5
ID Fan-ID Fan - North	Leq,D	92.2	8	170.68	-55.6	4.1	-11.0	0.0		0.0	0.0	0.0	0.0	29.7
ID Fan-ID Fan - North 2	Leq,D	91.4	7	169.67	-55.6	4.1	-8.3	0.0		0.0	0.0	0.0	0.0	31.6
ID Fan-ID Fan - South	Leq,D	92.3	9	173.13	-55.8	4.1	-13.3	0.0		0.0	0.0	0.0	0.0	27.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	170.80	-55.6	4.1	-14.9	0.0		0.0	0.0	0.0	0.0	24.9
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	171.45	-55.7	3.3	-11.8	0.0		0.0	0.2	0.0	0.0	29.9
Motor & Pump P 56A/B	Leq,D	93.7		335.47	-61.5	4.9	-22.7	-1.9	-0.46	0.0	0.3	0.0	0.0	12.2
Motor & Pump P 120/121	Leq,D	96.2	2	332.07	-61.4	4.5	-21.6	-1.2	-0.23	0.0	0.0	0.0	0.0	16.3
Motor & Pump P 211/212	Leq,D	93.7		363.70	-62.2	5.0	-23.1	-2.2	-0.63	0.0	0.0	0.0	0.0	10.5
Motor & Pump P 215/214	Leq,D	94.6		361.79	-62.2	5.0	-21.2	-1.7	-0.92	0.0	1.0	0.0	0.0	14.7
Motor & Pump P 216	Leq,D	98.3		369.48	-62.3	4.9	-21.0	-1.7	-1.00	0.0	0.0	0.0	0.0	17.2
Motor & Pump P 217/218	Leq,D	93.7		363.09	-62.2	5.2	-23.7	-2.4	-0.39	0.0	0.2	0.0	0.0	10.3
Motor & Pump P 300	Leq,D	97.1	2	342.92	-61.7	4.5	-21.1	-1.2		0.0	0.0	0.0	0.0	17.7
Motor & Pump P 301	Leq,D	102.1	2	343.37	-61.7	4.5	-21.0	-1.2	-0.12	0.0	0.0	0.0	0.0	22.6
Motor & Pump P 302	Leq,D	97.1	2	342.45	-61.7	4.5	-22.4	-1.3		0.0	0.1	0.0	0.0	16.3
Motor & Pump P 303	Leq,D	97.1	2	342.15	-61.7	4.4	-21.0	-1.2		0.0	0.0	0.0	0.0	17.7
Motor & Pump P 305	Leq,D	97.5	2	341.77	-61.7	4.4	-21.9	-1.2		0.0	0.3	0.0	0.0	17.3
Motor & Pump P 306	Leq,D	112.6	4	339.47	-61.6	4.0	-22.1	-1.6		0.0	0.2	0.0	0.0	31.5
Motor & Pump P 307	Leq,D	102.1	2	344.73	-61.7	4.5	-21.0	-1.2	-0.23	0.0	1.2	0.0	0.0	23.7
Motor & Pump P 309	Leq,D	97.5	2	341.40	-61.7	4.4	-23.3	-1.4		0.0	0.2	0.0	0.0	15.7
Motor & Pump P 312	Leq,D	101.5	2	351.57	-61.9	4.8	-19.9	-1.1	-0.55	0.0	0.0	0.0	0.0	22.8
Motor & Pump P 313	Leq,D	101.5	2	352.19	-61.9	4.8	-21.6	-1.2	-0.55	0.0	0.0	0.0	0.0	21.0
Motor & Pump P 315	Leq,D	102.9	2	354.71	-62.0	4.7	-22.6	-1.3	-0.24	0.0	0.9	0.0	0.0	22.5
Motor & Pump P 316	Leq,D	102.9	2	355.43	-62.0	4.8	-21.5	-1.2	-0.56	0.0	1.3	0.0	0.0	23.7
Motor & Pump P 317	Leq,D	102.9	2	356.08	-62.0	4.7	-21.5	-1.2	-0.56	0.0	0.0	0.0	0.0	22.3
Motor & Pump P 318	Leq,D	100.2	1	353.53	-62.0	4.9	-22.2	-1.2	-0.56	0.0	0.2	0.0	0.0	19.3
Motor & Pump P 319	Leq,D	100.2	1	353.00	-61.9	4.9	-22.4	-1.3	-0.55	0.0	0.0	0.0	0.0	18.9
Motor & Pump P 327	Leq,D	111.2	3	338.41	-61.6	4.5	-23.6	-2.2		0.0	1.2	0.0	0.0	29.6
Motor & Pump P 328	Leq,D	109.9	5	340.80	-61.6	4.3	-23.0	-1.4		0.0	0.1	0.0	0.0	28.3
Motor & Pump P 329	Leq,D	110.2	5	340.11	-61.6	4.3	-23.2	-1.3		0.0	0.1	0.0	0.0	28.4
Motor & Pump P 451	Leq,D	93.7		337.19	-61.5	4.9	-22.7	-1.9		0.0	0.0	0.0	0.0	12.4
Motor & Pump P 453	Leq,D	93.7		340.43	-61.6	4.9	-22.6	-1.9		0.0	0.4	0.0	0.0	12.9
Motor & Pump P 454	Leq,D	93.7		338.30	-61.6	4.9	-22.7	-1.9		0.0	0.9	0.0	0.0	13.3
Motor & Pump P 457	Leq,D	93.7		341.21	-61.7	4.9	-22.5	-1.8		0.0	0.4	0.0	0.0	13.0
Motor & Pump P 458	Leq,D	93.7		336.18	-61.5	4.9	-22.8	-1.9		0.0	0.0	0.0	0.0	12.4
Motor & Pump P 459	Leq,D	93.7		337.83	-61.6	4.9	-22.7	-1.9		0.0	0.0	0.0	0.0	12.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		311.46	-60.9	4.9	-22.0	-1.6	-0.32	0.0	0.0	0.0	0.0	16.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		310.75	-60.8	4.9	-22.0	-1.6	-0.32	0.0	2.4	0.0	0.0	18.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		289.77	-60.2	4.7	-24.1	-2.2	-0.20	0.0	0.1	0.0	0.0	13.5
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		289.39	-60.2	4.7	-21.5	-1.4	-0.15	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 1601 A	Leq,D	96.3	2	285.76	-60.1	4.6	-22.2	-1.6		0.0	0.0	0.0	0.0	17.0
Motor & Pump P 1601 B	Leq,D	96.3	2	284.38	-60.1	4.6	-22.2	-1.6		0.0	0.0	0.0	0.0	17.1
Motor & Pump P 1602 A	Leq,D	96.3	2	283.44	-60.0	4.6	-22.2	-1.6		0.0	0.0	0.0	0.0	17.1
Motor & Pump P 1602 B	Leq,D	96.5	2	282.11	-60.0	4.6	-22.3	-1.5		0.0	0.0	0.0	0.0	17.3
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	302.77	-60.6	4.9	-22.2	-1.6	-0.19	0.0	0.5	0.0	0.0	17.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	300.76	-60.6	4.9	-22.2	-1.6	-0.18	0.0	2.0	0.0	0.0	18.9
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	299.74	-60.5	4.9	-22.2	-1.6	-0.18	0.0	1.3	0.0	0.0	18.3
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	309.62	-60.8	4.9	-22.1	-1.6	-0.32	0.0	2.4	0.0	0.0	19.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	308.87	-60.8	4.9	-22.1	-1.6	-0.31	0.0	1.6	0.0	0.0	18.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	291.43	-60.3	4.9	-23.5	-1.9	-0.02	0.0	0.3	0.0	0.0	15.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	293.53	-60.3	4.9	-23.6	-1.9	-0.08	0.0	0.4	0.0	0.0	15.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	297.25	-60.5	4.8	-23.7	-2.0	-0.17	0.0	0.7	0.0	0.0	15.5
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	295.61	-60.4	4.9	-23.7	-2.0	-0.13	0.0	0.4	0.0	0.0	15.4

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	304.08	-60.7	4.3	-22.6	-1.3		0.0	0.1	0.0	0.0	24.0
P-2 A/B	Leq,D	98.5		315.06	-61.0	5.4	-22.1	-1.2		0.0	1.9	0.0	0.0	21.5
P-50 A/B	Leq,D	98.1		289.04	-60.2	5.3	-24.4	-1.3	-0.79	0.0	5.6	0.0	0.0	22.3
P-51 A/B	Leq,D	98.1		293.23	-60.3	5.3	-24.3	-1.3	-0.86	0.0	0.2	0.0	0.0	16.8
P-060 A/B	Leq,D	98.1		278.68	-59.9	5.3	-24.5	-1.3	-0.63	0.0	1.4	0.0	0.0	18.5
P-63	Leq,D	98.5		320.79	-61.1	5.4	-22.6	-1.2	-0.37	0.0	0.2	0.0	0.0	18.8
P-70 A/B	Leq,D	98.1		283.31	-60.0	5.3	-24.4	-1.3	-0.71	0.0	0.0	0.0	0.0	16.9
P-73 A/B	Leq,D	98.5		314.39	-60.9	5.4	-21.8	-1.2		0.0	0.4	0.0	0.0	20.4
P-251 A/B	Leq,D	98.2		295.76	-60.4	5.3	-18.2	-0.9	-0.50	0.0	0.0	0.0	0.0	23.4
P-252 A/B	Leq,D	98.2		284.46	-60.1	5.3	-18.9	-0.9	-0.23	0.0	0.1	0.0	0.0	23.5
P-253	Leq,D	98.2		281.03	-60.0	5.3	-20.6	-0.9	-0.22	0.0	0.0	0.0	0.0	21.8
P-254 A/B	Leq,D	98.2		290.74	-60.3	5.3	-18.9	-0.9	-0.48	0.0	0.0	0.0	0.0	23.0
P-255 A/B	Leq,D	98.2		292.20	-60.3	5.3	-20.3	-0.9	-0.49	0.0	0.0	0.0	0.0	21.5
P-255 A/B	Leq,D	98.2		298.99	-60.5	5.3	-19.8	-1.0	-0.50	0.0	0.2	0.0	0.0	21.9
P-256 A/B	Leq,D	98.2		294.15	-60.4	5.3	-18.0	-0.9	-0.49	0.0	0.0	0.0	0.0	23.7
P-259 A/B	Leq,D	98.2		297.30	-60.5	5.3	-18.4	-0.9	-0.50	0.0	0.0	0.0	0.0	23.2
P-260	Leq,D	99.1		293.73	-60.4	5.3	-18.9	-0.9	-0.23	0.0	0.4	0.0	0.0	24.4
P-261 A/B	Leq,D	98.0		306.69	-60.7	5.3	-21.1	-1.0	-0.24	0.0	0.0	0.0	0.0	20.2
P-262 A/B	Leq,D	99.1		298.17	-60.5	5.3	-19.8	-0.9	-0.23	0.0	0.7	0.0	0.0	23.6
P-263 A/B	Leq,D	99.4		295.86	-60.4	5.3	-20.0	-0.9	-0.23	0.0	0.5	0.0	0.0	23.7
P-270 A/B	Leq,D	98.5		273.95	-59.7	5.3	-13.9	-0.9	-0.22	0.0	0.2	0.0	0.0	29.3
P-271 A/B	Leq,D	98.2		286.77	-60.1	5.3	-18.6	-0.8	-0.47	0.0	0.3	0.0	0.0	23.7
P-272 A/B	Leq,D	98.2		288.66	-60.2	5.3	-18.9	-0.9	-0.48	0.0	0.0	0.0	0.0	23.1
P-273 A/B	Leq,D	98.5		275.04	-59.8	5.3	-13.8	-0.9	-0.23	0.0	0.2	0.0	0.0	29.3
P-275 A/B/C	Leq,D	98.2		276.02	-59.8	5.3	-19.4	-0.8	-0.21	0.0	0.0	0.0	0.0	23.2
P-305	Leq,D	99.3		327.38	-61.3	5.4	-15.0	-1.0	-1.53	0.0	0.0	0.0	0.0	25.8
P-306	Leq,D	100.8		325.89	-61.3	5.4	-4.8	-1.6	-1.47	0.0	2.0	0.0	0.0	39.1
P-309	Leq,D	99.3		326.91	-61.3	5.4	-8.2	-1.2	-1.51	0.0	0.0	0.0	0.0	32.5
P-328	Leq,D	100.8		325.21	-61.2	5.4	-4.8	-1.6	-1.46	0.0	2.0	0.0	0.0	39.1
P-329	Leq,D	100.8		325.40	-61.2	5.4	-4.7	-1.6	-1.46	0.0	0.0	0.0	0.0	37.1
P-353	Leq,D	98.5		313.14	-60.9	5.1	-13.2	-1.0	-1.21	0.0	0.0	0.0	0.0	27.2
P-358 A/B	Leq,D	99.4		286.00	-60.1	5.3	-4.8	-1.4	-0.62	0.0	0.0	0.0	0.0	37.8
P-359 A/B	Leq,D	99.4		290.72	-60.3	5.3	-0.8	-1.4	-0.73	0.0	0.0	0.0	0.0	41.6
P-360 A/B	Leq,D	99.4		299.92	-60.5	5.3	-0.8	-1.4	-0.93	0.0	0.0	0.0	0.0	41.1
P-361A	Leq,D	98.1		257.81	-59.2	4.9	-22.3	-1.0	-0.25	0.0	0.9	0.0	0.0	21.1
P-371 A/B	Leq,D	98.0		291.22	-60.3	4.8	-23.0	-1.2		0.0	0.4	0.0	0.0	18.8
P-373 A/B	Leq,D	98.0		275.24	-59.8	4.8	-23.3	-1.2		0.0	0.1	0.0	0.0	18.6
P-374 A/B	Leq,D	98.0		278.24	-59.9	4.8	-21.4	-1.0		0.0	0.0	0.0	0.0	20.5
P-375 A/B	Leq,D	98.0		285.09	-60.1	4.8	-21.4	-1.0		0.0	0.1	0.0	0.0	20.6
P-376	Leq,D	98.0		280.24	-59.9	4.8	-21.4	-1.0		0.0	0.0	0.0	0.0	20.5
P-376 A/B	Leq,D	98.0		271.93	-59.7	4.8	-23.3	-1.2		0.0	0.2	0.0	0.0	18.9
P-377	Leq,D	98.0		281.97	-60.0	4.8	-21.4	-1.0		0.0	0.0	0.0	0.0	20.5
P-1101 A	Leq,D	98.9		294.58	-60.4	5.0	-22.1	-1.2		0.0	0.5	0.0	0.0	20.9
P-1103	Leq,D	98.9		294.34	-60.4	5.0	-21.7	-1.1		0.0	0.6	0.0	0.0	21.3
P-1105 A/B/C	Leq,D	98.9		295.18	-60.4	5.0	-22.4	-1.2		0.0	0.5	0.0	0.0	20.5
P-1800	Leq,D	98.9		341.50	-61.7	5.4	-24.5	-1.5		0.0	1.6	0.0	0.0	18.2
P-1801	Leq,D	98.9		351.06	-61.9	5.4	-24.8	-1.7		0.0	2.4	0.0	0.0	18.3
P-1802	Leq,D	98.9		348.67	-61.8	5.4	-24.9	-1.7		0.0	2.4	0.0	0.0	18.3
P-1803	Leq,D	99.1		246.95	-58.8	5.3	-22.2	-1.0		0.0	0.3	0.0	0.0	22.6
P-1804	Leq,D	99.1		263.63	-59.4	5.3	-24.2	-1.2		0.0	0.2	0.0	0.0	19.8
P-1805	Leq,D	99.1		263.96	-59.4	5.3	-24.2	-1.2		0.0	0.3	0.0	0.0	19.8
P-1806	Leq,D	99.1		246.45	-58.8	5.3	-19.5	-0.9		0.0	0.5	0.0	0.0	25.7
P-1809 A	Leq,D	98.9		339.20	-61.6	5.4	-24.5	-1.5		0.0	5.7	0.0	0.0	22.5
P-1810 A/B/C	Leq,D	99.0		252.68	-59.0	5.3	-24.8	-1.3		0.0	1.0	0.0	0.0	20.2
P-1811 A/B	Leq,D	99.1		246.49	-58.8	5.3	-23.2	-1.1		0.0	0.0	0.0	0.0	21.2
P-1811 A/B	Leq,D	99.1		264.53	-59.4	5.3	-24.8	-1.3		0.0	0.2	0.0	0.0	19.1
P-1847 A/B	Leq,D	99.4		179.07	-56.1	5.1	-23.9	-0.8		0.0	0.2	0.0	0.0	23.9
P-1849 A/B	Leq,D	99.4		179.48	-56.1	5.1	-24.0	-0.8		0.0	0.9	0.0	0.0	24.4
P-1853	Leq,D	99.1		325.12	-61.2	5.4	-14.1	-1.0	-0.06	0.0	0.4	0.0	0.0	28.4
Piping Furnace Tanks	Leq,D	87.1	72	210.72	-57.5	2.8	-19.8	-4.5		0.0	1.4	0.0	0.0	9.5
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	232.67	-58.3	3.1	-18.9	-4.5		0.0	1.1	0.0	0.0	20.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	237.88	-58.5	3.9	-24.7	-2.1		0.0	1.0	0.0	0.0	34.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	236.32	-58.5	3.9	-24.7	-6.2		0.0	1.3	0.0	0.0	31.0
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	222.25	-57.9	3.1	-23.2	-1.0		0.0	0.8	0.0	0.0	32.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	194.98	-56.8	3.1	-22.6	-0.8		0.0	3.2	0.0	0.0	37.2
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	193.98	-56.7	3.1	-23.2	-0.8		0.0	4.0	0.0	0.0	30.4
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	232.74	-58.3	3.2	-24.2	-1.1		0.0	1.0	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	210.46	-57.5	3.2	-24.0	-1.0		0.0	0.6	0.0	0.0	25.3

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	190.93	-56.6	3.1	-22.9	-0.8		0.0	6.2	0.0	0.0	32.7	
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	200.93	-57.1	3.2	-22.7	-0.8		0.0	0.5	0.0	0.0	29.7	
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	218.61	-57.8	3.2	-23.9	-1.0		0.0	1.1	0.0	0.0	27.7	
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	212.38	-57.5	2.7	-23.6	-0.9		0.0	4.9	0.0	0.0	38.7	
PSA Pipe 3" Lagging	Leq,D	80.6	11	223.74	-58.0	2.7	-5.1	-2.0		0.0	0.1	0.0	0.0	18.3	
PSA Skid Additional Piping w NC	Leq,D	116.6	57	240.56	-58.6	3.9	-24.7	-2.2		0.0	1.1	0.0	0.0	36.1	
Reformer-Burner Reformer East	Leq,D	97.3	269	190.24	-56.6	2.6	-14.5	-0.8		0.0	0.0	0.0	0.0	31.0	
Reformer-Burner Reformer North	Leq,D	95.9	192	202.04	-57.1	2.6	-21.8	-1.2		0.0	0.0	0.0	0.0	18.4	
Reformer-Burner Reformer South	Leq,D	95.8	191	188.09	-56.5	2.6	-19.1	-0.9		0.0	0.7	0.0	0.0	25.3	
Reformer-Burner Reformer West	Leq,D	97.3	268	199.44	-57.0	2.6	-23.1	-1.3		0.0	0.5	0.0	0.0	21.9	
RFG A from battery to process	Leq,D	99.4	87	228.43	-58.2	3.0	-17.9	-4.6		0.0	1.0	0.0	0.0	22.7	
RFG A from battery to process w NC	Leq,D	115.2	42	234.79	-58.4	3.9	-24.8	-6.5		0.0	1.4	0.0	0.0	30.8	
Stack Noise	Leq,D	108.4		170.52	-55.6	2.6	-6.3	-0.4		-5.4	0.0	0.0	0.0	43.4	
Steam Turbine-Facade 01	Leq,D	99.6	29	254.47	-59.1	4.6	-24.1	-4.3		0.0	0.3	0.0	0.0	17.0	
Steam Turbine-Facade 02	Leq,D	96.2	13	250.14	-59.0	4.6	-24.0	-4.1		0.0	0.3	0.0	0.0	14.1	
Steam Turbine-Facade 03	Leq,D	99.6	29	252.33	-59.0	4.6	-24.2	-4.3		0.0	0.3	0.0	0.0	17.0	
Steam Turbine-Facade 04	Leq,D	96.2	13	256.70	-59.2	4.6	-24.4	-4.6		0.0	0.4	0.0	0.0	13.0	
Steam Turbine-Roof 01	Leq,D	99.7	30	253.40	-59.1	3.9	-24.0	-4.0		0.0	0.3	0.0	0.0	17.0	
Tank Farm Pump 1	Leq,D	99.0	3	157.41	-54.9	4.5	-13.7	-0.8		0.0	1.4	0.0	0.0	35.4	
Tank Farm Pump 2	Leq,D	99.0	3	158.04	-55.0	4.5	-23.2	-1.1		0.0	1.1	0.0	0.0	25.4	
Tank Farm Pump 3	Leq,D	99.0	3	158.94	-55.0	4.5	-23.6	-1.1		0.0	4.5	0.0	0.0	28.3	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	468.68	-64.4	4.4	-10.7	-3.8	-0.02	0.0	0.1	-11.8	0.0	26.1	
XF-1502 Splitter Area 1	Leq,D	104.5		297.12	-60.5	2.5	-18.5	-1.1	-0.08	-2.7	0.0	0.0	0.0	24.2	
XF-1502 Splitter Area 2	Leq,D	104.5		298.68	-60.5	2.5	-18.4	-1.1	-0.06	-2.7	0.0	0.0	0.0	24.2	
XF-1504 Splitter Area 1	Leq,D	104.5		293.11	-60.3	2.5	-18.6	-1.0	-0.02	-2.7	0.0	0.0	0.0	24.3	
XF-1504 Splitter Area 2	Leq,D	104.5		294.69	-60.4	2.5	-18.4	-1.1	-0.02	-2.7	0.0	0.0	0.0	24.4	
XF 251, 250, 271, 270	Leq,D	101.1	128	281.82	-60.0	2.6	-9.9	-0.4	0.00	-1.5	0.0	0.0	0.0	31.9	
XF 260, 261A, 261 B	Leq,D	99.9	97	305.95	-60.7	2.8	-12.4	-0.4	0.00	-1.4	0.2	0.0	0.0	27.9	
XF 304, XF 321	Leq,D	110.5	56	349.57	-61.9	1.8	-15.5	-0.5	-0.04	-1.4	0.0	0.0	0.0	33.0	
XF 313, XF 314	Leq,D	113.0	18	342.56	-61.7	2.1	-15.2	-0.8		-2.5	0.0	0.0	0.0	34.9	
XF 335-1, XF 335-2	Leq,D	113.4	54	346.32	-61.8	2.0	-15.2	-0.8	-0.04	-1.6	0.0	0.0	0.0	36.0	
XF 353A/B	Leq,D	95.4	35	293.52	-60.3	2.8	-4.8	-1.0	-0.01	-2.7	0.0	0.0	0.0	29.4	
XF 353A/B	Leq,D	95.4	35	273.85	-59.7	2.6	-0.9	-1.2	0.00	-3.5	0.0	0.0	0.0	32.6	
XF 354A/B	Leq,D	95.4	35	320.48	-61.1	3.0	-1.8	-1.1	0.00	-2.9	0.0	0.0	0.0	31.5	
XF 503	Leq,D	113.0	21	349.69	-61.9	3.2	-17.9	-1.1	-0.59	-2.6	0.0	0.0	0.0	32.1	
XF - 1601	Leq,D	96.6		284.70	-60.1	2.2	-13.0	-0.5		-1.1	0.0	0.0	0.0	24.2	
XF - 1602	Leq,D	96.6		279.45	-59.9	2.3	-12.7	-0.4		-1.1	0.0	0.0	0.0	24.7	
XF Module 1510	Leq,D	108.3		305.53	-60.7	2.6	-18.5	-1.1	-0.22	-2.7	0.0	0.0	0.0	27.6	
XF Module 1519	Leq,D	109.0		303.29	-60.6	2.5	-18.7	-1.1	-0.22	-2.7	0.2	0.0	0.0	28.5	
xxxx xxxx xxxx xxxx	Leq,D		228								25.3			24.8	
xxxx xxxx xxxx xxxx	Leq,D		520								6.2			47.0	
xxxx xxxx xxxx xxxx	Leq,D		1341								6.6			37.4	
xxxx xxxx xxxx xxxx	Leq,D		450								13.1			13.2	
Receiver N-7 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 57.8 dB(A)		Ld 7-19 dB(A)		Leq,N 58.1 dB(A)		Le 19-22 dB(A)		CNEL 64.6 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	239.56	-58.6	4.8	-22.9	-1.6		0.0	6.6	0.0	0.0	32.7	
18-1855 A/B	Leq,D	98.8		298.05	-60.5	5.4	-21.0	-1.0		0.0	1.3	0.0	0.0	23.0	
18-1856 A/B	Leq,D	98.8		293.25	-60.3	5.4	-17.9	-0.9		0.0	0.7	0.0	0.0	25.8	
18-1857 A/B	Leq,D	98.8		302.74	-60.6	5.4	-20.1	-1.0		0.0	1.3	0.0	0.0	23.8	
18-1858 A/B	Leq,D	98.8		306.13	-60.7	5.2	-19.5	-1.0		0.0	1.1	0.0	0.0	23.8	
18-PK 1802 Air Compressor Package	Leq,D	103.1		297.66	-60.5	5.6	-18.1	-0.5		0.0	2.6	0.0	0.0	32.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	431.07	-63.7	5.4	-13.8	-2.1	-0.30	0.0	0.6	-2.7	0.0	32.4	
Air Compressor C 1	Leq,D	110.0	5	418.35	-63.4	5.6	-21.9	-1.0		0.0	4.2	0.0	0.0	33.3	
Air Compressor Pump	Leq,D	100.3		360.59	-62.1	5.4	-21.5	-2.2		0.0	2.3	0.0	0.0	22.1	
Blower F 401	Leq,D	113.0		442.91	-63.9	5.4	-20.8	-0.6	-0.18	0.0	6.1	0.0	0.0	39.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	368.99	-62.3	5.3	-14.4	-0.7	-1.38	0.0	2.0	0.0	0.0	27.0	
Boiler Feed Water Pump A	Leq,D	97.1	3	276.01	-59.8	5.2	-18.5	-0.9		0.0	1.1	0.0	0.0	24.1	
Boiler Feed Water Pump B	Leq,D	97.1	3	278.26	-59.9	5.2	-18.0	-0.9		0.0	1.3	0.0	0.0	24.8	
C370 A Motor	Leq,D	103.6	3	333.99	-61.5	4.7	-19.4	-1.0		0.0	0.6	0.0	0.0	27.0	
C370 B Motor	Leq,D	108.6	3	325.37	-61.2	4.7	-21.3	-1.3		0.0	2.6	0.0	0.0	32.1	
C370A	Leq,D	103.8	5	331.42	-61.4	4.8	-19.6	-1.0		0.0	0.6	0.0	0.0	27.2	
C370B	Leq,D	103.8	5	322.74	-61.2	4.7	-20.8	-1.2		0.0	0.9	0.0	0.0	26.3	
C-270 A	Leq,D	106.3	6	328.45	-61.3	4.8	-14.1	-1.0	-0.70	0.0	3.1	0.0	0.0	37.0	
C-270 B	Leq,D	106.3	6	331.01	-61.4	4.8	-13.2	-1.0	-0.70	0.0	2.6	0.0	0.0	37.3	
C-270 C	Leq,D	106.3	6	333.50	-61.5	4.8	-12.8	-1.0	-0.61	0.0	2.6	0.0	0.0	37.9	
C-301 Compressor	Leq,D	106.8	3	299.17	-60.5	4.7	-13.1	-0.9	-0.13	0.0	2.1	0.0	0.0	38.9	
C-301 Motor	Leq,D	106.8	4	301.00	-60.6	4.7	-14.9	-1.4	-0.15	0.0	2.9	0.0	0.0	37.4	
C-351 Compressor	Leq,D	106.8	4	313.59	-60.9	4.8	-11.1	-1.0	-0.53	0.0	2.1	0.0	0.0	40.1	
C-351 Motor	Leq,D	106.8	5	317.88	-61.0	4.5	-11.5	-1.5	-0.73	0.0	3.1	0.0	0.0	39.6	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	442.99	-63.9	5.5	-11.5	-0.8	-0.44	0.0	0.9	-33.5	0.0	30.9	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	454.48	-64.1	5.1	-20.1	-0.9	-1.05	0.6	1.8	0.0	0.0	26.0
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	448.99	-64.0	5.1	-14.2	-1.0	-1.04	0.0	0.6	0.0	0.0	26.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	459.21	-64.2	5.1	-14.3	-0.8	-0.52	4.3	1.3	0.0	0.0	37.4
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	464.48	-64.3	5.1	-21.7	-1.1	-0.97	-5.1	0.8	0.0	0.0	23.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	451.72	-64.1	5.1	-20.7	-1.0	-1.02	-5.1	0.7	0.0	0.0	17.7
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	472.15	-64.5	5.1	-21.9	-1.5	-0.46	-7.8	1.1	0.0	0.0	10.5
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	384.84	-62.7	5.1	-20.2	-1.0		0.7	2.8	0.0	0.0	22.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	396.39	-63.0	5.0	-21.7	-1.3		-7.8	1.3	0.0	0.0	10.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	362.55	-62.2	4.7	-21.1	-1.1		0.7	3.3	0.0	0.0	25.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	379.09	-62.6	4.8	-22.3	-1.3		-7.8	8.5	0.0	0.0	20.1
Cooling Tower M 512	Leq,D	95.7		393.15	-62.9	5.4	-23.8	-1.7		0.0	3.9	0.0	0.0	16.6
Cooling Tower M 513	Leq,D	95.7		394.52	-62.9	5.4	-23.7	-1.7		0.0	3.7	0.0	0.0	16.5
Cooling Tower M 514	Leq,D	95.7		391.81	-62.9	5.4	-23.9	-1.7		0.0	6.2	0.0	0.0	18.9
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	265.60	-59.5	3.2	-16.1	-0.4		-1.3	1.2	0.0	0.0	22.9
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	246.08	-58.8	4.6	-13.3	-0.1		0.0	1.0	0.0	0.0	28.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	246.20	-58.8	4.6	-13.7	-0.1		0.0	0.2	0.0	0.0	25.3
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	247.25	-58.9	3.8	-11.5	-0.1		0.0	2.0	0.0	0.0	28.8
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	248.26	-58.9	4.5	-14.7	-0.1		0.0	0.3	0.0	0.0	24.5
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	248.37	-58.9	4.6	-13.9	-0.1		0.0	0.2	0.0	0.0	27.3
FD Motor	Leq,D	103.3	2	245.03	-58.8	4.8	-23.4	-1.9		0.0	6.5	0.0	0.0	30.5
Feed Compressor -B Motor	Leq,D	103.8	5	306.34	-60.7	4.6	-23.2	-2.1		0.0	2.7	0.0	0.0	25.1
Feed Compressor-A Compressor	Leq,D	104.0	5	314.01	-60.9	4.8	-18.7	-0.9		0.0	1.3	0.0	0.0	29.6
Feed Compressor-A Motor	Leq,D	103.8	6	317.14	-61.0	4.6	-20.4	-1.5		0.0	1.9	0.0	0.0	27.4
Feed Compressor-B Compressor	Leq,D	104.0	7	302.64	-60.6	4.7	-19.0	-0.9		0.0	1.4	0.0	0.0	29.6
H2S Compressor 18-C-271	Leq,D	105.3	6	425.61	-63.6	5.3	-19.5	-1.3	-0.41	0.0	0.9	0.0	0.0	26.8
Heater # 5-Heater	Leq,D	91.1	13	366.15	-62.3	5.3	-18.7	-0.8	-1.54	0.0	5.6	0.0	0.0	21.7
Heater # 5-Heater	Leq,D	91.1	13	368.04	-62.3	5.3	-17.3	-0.7	-1.61	0.0	1.0	0.0	0.0	18.4
Heater # 5-Heater	Leq,D	91.1	13	364.38	-62.2	5.3	-17.0	-0.8	-1.31	0.0	1.2	0.0	0.0	19.3
Hydro Heater H-402	Leq,D	98.1		418.21	-63.4	5.4	-22.9	-1.2		0.0	1.2	0.0	0.0	17.2
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	239.66	-58.6	4.8	-12.4	0.0		0.0	0.1	0.0	0.0	20.8
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	240.88	-58.6	4.8	-18.2	-0.1		0.0	0.1	0.0	0.0	15.3
ID Fan-ID Fan - North	Leq,D	92.2	8	240.61	-58.6	4.8	-13.5	-0.1		0.0	0.1	0.0	0.0	25.0
ID Fan-ID Fan - North 2	Leq,D	91.4	7	238.92	-58.6	4.8	-13.0	-0.1		0.0	0.1	0.0	0.0	24.7
ID Fan-ID Fan - South	Leq,D	92.3	9	242.34	-58.7	4.8	-17.3	-0.1		0.0	0.4	0.0	0.0	21.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	239.70	-58.6	4.8	-18.4	-0.1		0.0	0.1	0.0	0.0	19.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	240.88	-58.6	4.2	-13.4	-0.1		0.0	0.5	0.0	0.0	26.5
Motor & Pump P 56A/B	Leq,D	93.7		420.39	-63.5	5.5	-20.9	-1.8	-0.46	0.0	1.8	0.0	0.0	14.4
Motor & Pump P 120/121	Leq,D	96.2	2	420.55	-63.5	5.5	-20.9	-1.3	-0.23	0.0	0.0	0.0	0.0	15.9
Motor & Pump P 211/212	Leq,D	93.7		447.18	-64.0	5.5	-24.0	-2.9	-0.24	0.0	6.6	0.0	0.0	14.7
Motor & Pump P 215/214	Leq,D	94.6		445.70	-64.0	5.6	-20.0	-1.8	-0.62	0.0	3.8	0.0	0.0	17.7
Motor & Pump P 216	Leq,D	98.3		453.23	-64.1	5.5	-19.8	-1.8	-0.77	0.0	0.7	0.0	0.0	18.0
Motor & Pump P 217/218	Leq,D	93.7		446.73	-64.0	5.7	-20.1	-1.8	-0.62	0.0	0.7	0.0	0.0	13.6
Motor & Pump P 300	Leq,D	97.1	2	431.70	-63.7	5.6	-19.4	-1.3	-0.12	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 301	Leq,D	102.1	2	432.06	-63.7	5.6	-19.6	-1.3	-0.23	0.0	0.0	0.0	0.0	22.9
Motor & Pump P 302	Leq,D	97.1	2	431.32	-63.7	5.6	-21.7	-1.4		0.0	0.0	0.0	0.0	15.9
Motor & Pump P 303	Leq,D	97.1	2	431.11	-63.7	5.5	-20.1	-1.3		0.0	0.0	0.0	0.0	17.6
Motor & Pump P 305	Leq,D	97.5	2	430.81	-63.7	5.5	-20.1	-1.3		0.0	0.0	0.0	0.0	18.0
Motor & Pump P 306	Leq,D	112.6	4	428.98	-63.6	5.4	-21.9	-1.5		0.0	0.2	0.0	0.0	31.3
Motor & Pump P 307	Leq,D	102.1	2	433.13	-63.7	5.6	-20.1	-1.3	-0.23	0.0	0.2	0.0	0.0	22.5
Motor & Pump P 309	Leq,D	97.5	2	430.52	-63.7	5.5	-22.9	-1.5		0.0	0.1	0.0	0.0	15.0
Motor & Pump P 312	Leq,D	101.5	2	438.57	-63.8	5.6	-19.7	-1.3	-0.55	0.0	0.0	0.0	0.0	21.7
Motor & Pump P 313	Leq,D	101.5	2	439.06	-63.8	5.6	-19.7	-1.3	-0.55	0.0	3.0	0.0	0.0	24.7
Motor & Pump P 315	Leq,D	102.9	2	441.13	-63.9	5.6	-18.3	-1.3	-0.55	0.0	1.8	0.0	0.0	26.3
Motor & Pump P 316	Leq,D	102.9	2	441.72	-63.9	5.6	-18.2	-1.3	-0.55	0.0	2.6	0.0	0.0	27.2
Motor & Pump P 317	Leq,D	102.9	2	442.21	-63.9	5.5	-16.3	-1.3	-0.55	0.0	1.4	0.0	0.0	27.7
Motor & Pump P 318	Leq,D	100.2	1	440.08	-63.9	5.7	-19.3	-1.3	-0.55	0.0	1.9	0.0	0.0	22.8
Motor & Pump P 319	Leq,D	100.2	1	439.66	-63.9	5.7	-19.1	-1.3	-0.55	0.0	1.7	0.0	0.0	22.8
Motor & Pump P 327	Leq,D	111.2	3	428.28	-63.6	5.5	-23.6	-2.4		0.0	1.2	0.0	0.0	28.3
Motor & Pump P 328	Leq,D	109.9	5	430.01	-63.7	5.4	-22.7	-1.5		0.0	0.1	0.0	0.0	27.6
Motor & Pump P 329	Leq,D	110.2	5	429.47	-63.7	5.4	-23.0	-1.5		0.0	0.1	0.0	0.0	27.5
Motor & Pump P 451	Leq,D	93.7		419.71	-63.5	5.5	-22.7	-2.1		0.0	3.6	0.0	0.0	14.4
Motor & Pump P 453	Leq,D	93.7		421.68	-63.5	5.5	-23.8	-2.6		0.0	4.9	0.0	0.0	14.1
Motor & Pump P 454	Leq,D	93.7		420.92	-63.5	5.5	-22.7	-2.1		0.0	4.3	0.0	0.0	15.2
Motor & Pump P 457	Leq,D	93.7		422.31	-63.5	5.5	-23.8	-2.6		0.0	5.0	0.0	0.0	14.2
Motor & Pump P 458	Leq,D	93.7		418.64	-63.4	5.5	-22.8	-2.1		0.0	3.8	0.0	0.0	14.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		420.54	-63.5	5.5	-22.8	-2.1		0.0	4.6	0.0	0.0	15.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		396.08	-62.9	5.5	-21.6	-1.8	-0.31	0.0	4.0	0.0	0.0	19.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		395.52	-62.9	5.5	-21.5	-1.7	-0.31	0.0	5.5	0.0	0.0	20.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		377.12	-62.5	5.5	-24.0	-2.4	-0.21	0.0	0.4	0.0	0.0	12.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		376.82	-62.5	5.5	-23.0	-2.0	-0.18	0.0	0.3	0.0	0.0	13.4
Motor & Pump P 1601 A	Leq,D	96.3	2	369.26	-62.3	5.3	-21.9	-1.7		0.0	3.3	0.0	0.0	19.0
Motor & Pump P 1601 B	Leq,D	96.3	2	367.81	-62.3	5.3	-22.4	-1.8		0.0	3.6	0.0	0.0	18.7
Motor & Pump P 1602 A	Leq,D	96.3	2	366.79	-62.3	5.3	-22.4	-1.8		0.0	3.6	0.0	0.0	18.7
Motor & Pump P 1602 B	Leq,D	96.5	2	365.39	-62.2	5.3	-22.5	-1.8		0.0	3.7	0.0	0.0	18.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	387.09	-62.7	5.5	-21.8	-1.8	-0.18	0.0	2.9	0.0	0.0	18.5
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	385.54	-62.7	5.5	-18.8	-1.6	-0.18	0.0	2.6	0.0	0.0	21.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	384.74	-62.7	5.5	-19.0	-1.6	-0.18	0.0	1.8	0.0	0.0	20.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	394.50	-62.9	5.5	-18.5	-1.6	-0.31	0.0	3.5	0.0	0.0	22.3
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	393.92	-62.9	5.5	-18.7	-1.6	-0.31	0.0	1.9	0.0	0.0	20.6
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	376.66	-62.5	5.5	-19.5	-1.6	-0.02	0.0	1.2	0.0	0.0	19.4
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	378.85	-62.6	5.5	-19.4	-1.6	-0.08	0.0	0.9	0.0	0.0	19.1
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	382.70	-62.6	5.5	-19.3	-1.6	-0.17	0.0	0.9	0.0	0.0	19.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	381.00	-62.6	5.5	-19.4	-1.6	-0.13	0.0	0.9	0.0	0.0	19.0
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	392.99	-62.9	5.2	-22.0	-1.4		0.0	0.1	0.0	0.0	23.3
P-2 A/B	Leq,D	98.5		315.64	-61.0	5.6	-22.3	-1.2		0.0	2.9	0.0	0.0	22.6
P-50 A/B	Leq,D	98.1		301.17	-60.6	5.6	-20.5	-0.9	-0.31	0.0	2.7	0.0	0.0	24.1
P-51 A/B	Leq,D	98.1		305.22	-60.7	5.6	-19.1	-0.9	-0.32	0.0	2.2	0.0	0.0	24.9
P-060 A/B	Leq,D	98.1		291.26	-60.3	5.6	-20.5	-0.8	-0.31	0.0	11.0	0.0	0.0	32.8
P-63	Leq,D	98.5		330.11	-61.4	5.6	-19.3	-1.0		0.0	1.4	0.0	0.0	23.9
P-70 A/B	Leq,D	98.1		295.69	-60.4	5.6	-20.8	-0.9	-0.31	0.0	2.7	0.0	0.0	24.0
P-73 A/B	Leq,D	98.5		316.28	-61.0	5.6	-21.3	-1.2		0.0	2.4	0.0	0.0	23.1
P-251 A/B	Leq,D	98.2		345.88	-61.8	5.7	-5.2	-1.5	-0.56	0.0	0.1	0.0	0.0	35.0
P-252 A/B	Leq,D	98.2		335.26	-61.5	5.6	-19.5	-1.0	-0.27	0.0	2.5	0.0	0.0	24.1
P-253	Leq,D	98.2		330.17	-61.4	5.6	-4.7	-1.6	-0.25	0.0	0.1	0.0	0.0	36.1
P-254 A/B	Leq,D	98.2		338.45	-61.6	5.7	-12.3	-1.0	-0.56	0.0	2.4	0.0	0.0	30.8
P-255 A/B	Leq,D	98.2		340.66	-61.6	5.7	-7.0	-1.2	-0.56	0.0	0.2	0.0	0.0	33.6
P-255 A/B	Leq,D	98.2		350.59	-61.9	5.7	-11.2	-1.1	-0.58	0.0	0.4	0.0	0.0	29.6
P-256 A/B	Leq,D	98.2		343.56	-61.7	5.7	-4.7	-1.6	-0.55	0.0	0.1	0.0	0.0	35.4
P-259 A/B	Leq,D	98.2		348.15	-61.8	5.7	-8.4	-1.2	-0.58	0.0	0.2	0.0	0.0	32.1
P-260	Leq,D	99.1		348.46	-61.8	5.7	-20.1	-1.0	-0.27	0.0	2.6	0.0	0.0	24.0
P-261 A/B	Leq,D	98.0		365.63	-62.3	5.7	-18.5	-1.1	-0.29	0.0	1.6	0.0	0.0	23.0
P-262 A/B	Leq,D	99.1		354.49	-62.0	5.7	-19.1	-1.1	-0.28	0.0	2.2	0.0	0.0	24.5
P-263 A/B	Leq,D	99.4		351.46	-61.9	5.7	-20.2	-1.1	-0.27	0.0	2.6	0.0	0.0	24.3
P-270 A/B	Leq,D	98.5		311.57	-60.9	5.6	-16.0	-0.9	-0.25	0.0	3.4	0.0	0.0	29.5
P-271 A/B	Leq,D	98.2		332.28	-61.4	5.6	-14.5	-1.0	-0.40	0.0	2.6	0.0	0.0	29.2
P-272 A/B	Leq,D	98.2		335.25	-61.5	5.6	-14.3	-1.0	-0.56	0.0	2.7	0.0	0.0	29.1
P-273 A/B	Leq,D	98.5		313.58	-60.9	5.6	-16.0	-0.9	-0.26	0.0	3.5	0.0	0.0	29.5
P-275 A/B/C	Leq,D	98.2		322.62	-61.2	5.6	-15.2	-1.0	-0.24	0.0	2.9	0.0	0.0	29.2
P-305	Leq,D	99.3		356.00	-62.0	5.7	-6.5	-1.3	-1.64	0.0	1.3	0.0	0.0	34.8
P-306	Leq,D	100.8		352.06	-61.9	5.7	-4.8	-1.7	-1.58	0.0	3.2	0.0	0.0	39.7
P-309	Leq,D	99.3		354.94	-62.0	5.7	-5.5	-1.4	-1.62	0.0	1.1	0.0	0.0	35.5
P-328	Leq,D	100.8		349.91	-61.9	5.7	-4.8	-1.7	-1.57	0.0	2.9	0.0	0.0	39.5
P-329	Leq,D	100.8		350.82	-61.9	5.7	-1.0	-1.5	-1.59	0.0	1.2	0.0	0.0	41.7
P-353	Leq,D	98.5		342.33	-61.7	5.4	-11.8	-1.1	-1.32	0.0	4.7	0.0	0.0	32.7
P-358 A/B	Leq,D	99.4		311.85	-60.9	5.6	-4.8	-1.4	-0.68	0.0	0.7	0.0	0.0	37.9
P-359 A/B	Leq,D	99.4		316.16	-61.0	5.6	-4.8	-1.5	-0.79	0.0	0.7	0.0	0.0	37.7
P-360 A/B	Leq,D	99.4		324.63	-61.2	5.6	-4.8	-1.6	-1.00	0.0	2.8	0.0	0.0	39.3
P-361A	Leq,D	98.1		271.55	-59.7	5.2	-4.6	-1.4	-0.22	0.0	4.1	0.0	0.0	41.6
P-371 A/B	Leq,D	98.0		368.55	-62.3	5.4	-20.3	-1.2		0.0	3.7	0.0	0.0	23.3
P-373 A/B	Leq,D	98.0		351.07	-61.9	5.4	-21.4	-1.3		0.0	1.1	0.0	0.0	20.0
P-374 A/B	Leq,D	98.0		354.42	-62.0	5.4	-21.1	-1.2		0.0	1.1	0.0	0.0	20.2
P-375 A/B	Leq,D	98.0		362.04	-62.2	5.4	-20.6	-1.2		0.0	1.0	0.0	0.0	20.4
P-376	Leq,D	98.0		356.63	-62.0	5.4	-20.9	-1.2		0.0	1.0	0.0	0.0	20.3
P-376 A/B	Leq,D	98.0		347.39	-61.8	5.4	-21.6	-1.3		0.0	1.2	0.0	0.0	19.9
P-377	Leq,D	98.0		358.57	-62.1	5.4	-20.8	-1.2		0.0	1.0	0.0	0.0	20.4
P-1101 A	Leq,D	98.9		298.01	-60.5	5.3	-22.3	-1.1		0.0	1.5	0.0	0.0	21.8
P-1103	Leq,D	98.9		298.21	-60.5	5.3	-21.6	-1.1		0.0	1.3	0.0	0.0	22.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1105 A/B/C	Leq,D	98.9		296.87	-60.4	5.3	-20.9	-1.1		0.0	0.9	0.0	0.0	22.7
P-1800	Leq,D	98.9		336.07	-61.5	5.6	-24.4	-1.4		0.0	3.0	0.0	0.0	20.3
P-1801	Leq,D	98.9		332.40	-61.4	5.6	-24.7	-1.5		0.0	4.4	0.0	0.0	21.2
P-1802	Leq,D	98.9		329.90	-61.4	5.6	-24.7	-1.5		0.0	4.3	0.0	0.0	21.3
P-1803	Leq,D	99.1		257.38	-59.2	5.5	-23.9	-1.1		0.0	3.2	0.0	0.0	23.6
P-1804	Leq,D	99.1		268.99	-59.6	5.6	-24.4	-1.2		0.0	3.5	0.0	0.0	23.0
P-1805	Leq,D	99.1		268.23	-59.6	5.6	-24.4	-1.2		0.0	4.1	0.0	0.0	23.6
P-1806	Leq,D	99.1		265.39	-59.5	5.6	-12.7	-0.9		0.0	0.4	0.0	0.0	32.0
P-1809 A	Leq,D	98.9		330.39	-61.4	5.6	-24.9	-1.5		0.0	5.7	0.0	0.0	22.5
P-1810 A/B/C	Leq,D	99.0		256.24	-59.2	5.5	-24.2	-1.1		0.0	3.7	0.0	0.0	23.8
P-1811 A/B	Leq,D	99.1		263.05	-59.4	5.6	-17.3	-0.8		0.0	1.1	0.0	0.0	28.3
P-1811 A/B	Leq,D	99.1		267.46	-59.5	5.6	-24.5	-1.2		0.0	2.3	0.0	0.0	21.7
P-1847 A/B	Leq,D	99.4		197.18	-56.9	5.4	-21.0	-0.6		0.0	3.4	0.0	0.0	29.7
P-1849 A/B	Leq,D	99.4		194.44	-56.8	5.4	-4.8	-1.0		0.0	2.7	0.0	0.0	44.9
P-1853	Leq,D	99.1		365.79	-62.3	5.7	-13.8	-1.1	-0.23	0.0	3.3	0.0	0.0	30.7
Piping Furnace Tanks	Leq,D	87.1	72	285.12	-60.1	3.6	-23.8	-6.1		0.0	6.0	0.0	0.0	6.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	306.26	-60.7	3.9	-23.4	-5.6		0.0	2.5	0.0	0.0	15.1
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	318.47	-61.1	4.6	-24.8	-2.7		0.0	2.6	0.0	0.0	33.3
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	316.49	-61.0	4.6	-24.8	-7.5		0.0	2.9	0.0	0.0	29.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	198.24	-56.9	3.4	-23.0	-0.9		0.0	1.5	0.0	0.0	34.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	180.11	-56.1	3.3	-19.2	-0.6		0.0	0.9	0.0	0.0	39.5
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	192.45	-56.7	3.4	-12.5	-0.7		0.0	2.3	0.0	0.0	39.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	220.30	-57.9	3.5	-24.1	-1.0		0.0	2.1	0.0	0.0	33.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	209.02	-57.4	3.4	-22.7	-0.9		0.0	1.9	0.0	0.0	28.4
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	187.12	-56.4	3.3	-18.3	-0.7		0.0	0.6	0.0	0.0	32.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	201.58	-57.1	3.4	-14.3	-0.7		0.0	0.5	0.0	0.0	38.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	215.17	-57.6	3.5	-23.6	-1.0		0.0	7.6	0.0	0.0	35.0
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	199.59	-57.0	3.0	-23.2	-0.8		0.0	4.9	0.0	0.0	39.9
PSA Pipe 3" Lagging	Leq,D	80.6	11	302.74	-60.6	3.1	-19.4	-1.9		0.0	8.0	0.0	0.0	9.8
PSA Skid Additional Piping w NC	Leq,D	116.6	57	321.36	-61.1	4.6	-24.9	-2.8		0.0	2.7	0.0	0.0	35.2
Reformer-Burner Reformer East	Leq,D	97.3	269	266.23	-59.5	3.2	-16.4	-0.9		0.0	2.4	0.0	0.0	29.0
Reformer-Burner Reformer North	Leq,D	95.9	192	278.03	-59.9	3.1	-22.8	-1.5		0.0	1.4	0.0	0.0	16.2
Reformer-Burner Reformer South	Leq,D	95.8	191	261.41	-59.3	3.2	-20.7	-1.2		0.0	7.7	0.0	0.0	28.1
Reformer-Burner Reformer West	Leq,D	97.3	268	272.93	-59.7	3.0	-23.8	-1.7		0.0	2.2	0.0	0.0	20.4
RFG A from battery to process	Leq,D	99.4	87	301.02	-60.6	3.9	-23.2	-5.4		0.0	2.3	0.0	0.0	16.4
RFG A from battery to process w NC	Leq,D	115.2	42	315.36	-61.0	4.6	-24.9	-7.8		0.0	2.5	0.0	0.0	28.6
Stack Noise	Leq,D	108.4		238.22	-58.5	3.0	-7.0	-0.6		-5.5	1.4	0.0	0.0	41.2
Steam Turbine-Facade 01	Leq,D	99.6	29	333.07	-61.4	5.1	-24.5	-5.2		0.0	2.0	0.0	0.0	15.5
Steam Turbine-Facade 02	Leq,D	96.2	13	328.67	-61.3	5.1	-24.5	-5.2		0.0	2.0	0.0	0.0	12.4
Steam Turbine-Facade 03	Leq,D	99.6	29	331.44	-61.4	5.1	-24.4	-4.9		0.0	2.1	0.0	0.0	16.1
Steam Turbine-Facade 04	Leq,D	96.2	13	335.88	-61.5	5.1	-24.5	-5.1		0.0	2.0	0.0	0.0	12.2
Steam Turbine-Roof 01	Leq,D	99.7	30	332.25	-61.4	4.6	-24.4	-5.0		0.0	2.7	0.0	0.0	16.2
Tank Farm Pump 1	Leq,D	99.0	3	184.09	-56.3	4.9	-20.7	-1.0		0.0	2.7	0.0	0.0	28.6
Tank Farm Pump 2	Leq,D	99.0	3	173.66	-55.8	4.8	-10.2	-0.9		0.0	0.3	0.0	0.0	37.1
Tank Farm Pump 3	Leq,D	99.0	3	171.31	-55.7	4.8	-4.7	-1.4		0.0	3.1	0.0	0.0	45.2
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	553.33	-65.9	4.9	-10.0	-4.0	-0.02	0.0	0.8	-11.8	0.0	26.5
XF-1502 Splitter Area 1	Leq,D	104.5		382.15	-62.6	3.4	-13.2	-1.4	-0.09	-3.0	1.7	0.0	0.0	29.3
XF-1502 Splitter Area 2	Leq,D	104.5		383.37	-62.7	3.4	-18.6	-1.3	-0.07	-2.7	4.1	0.0	0.0	26.7
XF-1504 Splitter Area 1	Leq,D	104.5		377.98	-62.5	3.4	-13.2	-1.3	-0.02	-3.0	1.7	0.0	0.0	29.4
XF-1504 Splitter Area 2	Leq,D	104.5		379.20	-62.6	3.4	-18.9	-1.3	-0.02	-2.7	4.2	0.0	0.0	26.6
XF 251, 250, 271, 270	Leq,D	101.1	128	327.98	-61.3	3.4	-5.1	-0.7	0.00	-2.2	0.6	0.0	0.0	35.8
XF 260, 261A, 261 B	Leq,D	99.9	97	362.43	-62.2	3.7	-13.0	-0.5	0.00	-1.5	1.2	0.0	0.0	27.5
XF 304, XF 321	Leq,D	110.5	56	438.24	-63.8	3.7	-14.7	-0.6	-0.04	-1.5	0.0	0.0	0.0	33.5
XF 313, XF 314	Leq,D	113.0	18	432.65	-63.7	4.1	-9.8	-1.1		-2.9	0.0	0.0	0.0	39.6
XF 335-1, XF 335-2	Leq,D	113.4	54	435.64	-63.8	3.7	-15.7	-0.8	-0.05	-1.6	0.0	0.0	0.0	35.2
XF 353A/B	Leq,D	95.4	35	316.91	-61.0	3.4	-2.0	-1.4	-0.04	-3.2	2.0	0.0	0.0	33.2
XF 353A/B	Leq,D	95.4	35	302.77	-60.6	3.2	-6.6	-0.5	0.00	-2.0	1.3	0.0	0.0	30.3
XF 354A/B	Leq,D	95.4	35	349.56	-61.9	3.6	-5.0	-0.7	0.00	-2.2	1.2	0.0	0.0	30.5
XF 503	Leq,D	113.0	21	434.59	-63.8	4.3	-17.8	-1.2	-0.68	-2.7	3.5	0.0	0.0	34.7
XF - 1601	Leq,D	96.6		367.88	-62.3	3.0	-11.0	-0.5		-1.0	3.4	0.0	0.0	28.2
XF - 1602	Leq,D	96.6		362.34	-62.2	3.0	-11.3	-0.5		-1.0	3.6	0.0	0.0	28.1
XF Module 1510	Leq,D	108.3		390.09	-62.8	3.6	-19.0	-1.3	-0.23	-2.7	3.9	0.0	0.0	29.9
XF Module 1519	Leq,D	109.0		388.35	-62.8	3.6	-13.6	-1.4	-0.24	-2.9	1.6	0.0	0.0	33.3
xxxx xxxx xxxx xxxx	Leq,D		228								5.4			32.0
xxxx xxxx xxxx xxxx	Leq,D		520								6.5			53.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	Leq,D		1341								5.9			40.7	
xxxx xxxx xxxx xxxx	Leq,D		450								21.2			22.4	
Receiver N-8 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 62.1 dB(A)		Ld 7-19 dB(A)			Leq,N 63.0 dB(A)		Le 19-22 dB(A)		CNEL 69.3 dB(A)		Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	320.65	-61.1	5.1	-22.1	-1.8		0.0	0.1	0.0	0.0	24.5	
18-1855 A/B	Leq,D	98.8		367.44	-62.3	5.5	-19.8	-1.2		0.0	0.0	0.0	0.0	20.9	
18-1856 A/B	Leq,D	98.8		361.79	-62.2	5.5	-19.6	-1.2		0.0	0.0	0.0	0.0	21.4	
18-1857 A/B	Leq,D	98.8		372.93	-62.4	5.5	-19.5	-1.2		0.0	0.0	0.0	0.0	21.1	
18-1858 A/B	Leq,D	98.8		376.83	-62.5	5.3	-19.8	-1.2		0.0	0.0	0.0	0.0	20.6	
18-PK 1802 Air Compressor Package	Leq,D	103.1		363.53	-62.2	5.7	-20.4	-0.6		0.0	0.1	0.0	0.0	25.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	505.07	-65.1	5.5	-17.4	-1.2	-0.11	0.0	0.1	-2.7	0.0	28.1	
Air Compressor C 1	Leq,D	110.0	5	508.35	-65.1	5.7	-21.6	-1.2		0.0	5.0	0.0	0.0	32.7	
Air Compressor Pump	Leq,D	100.3		435.84	-63.8	5.5	-20.9	-2.5		0.0	0.0	0.0	0.0	18.6	
Blower F 401	Leq,D	113.0		526.71	-65.4	5.5	-16.2	-0.6	-0.16	0.0	0.0	0.0	0.0	36.1	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	410.99	-63.3	5.4	-20.1	-0.9	-1.09	0.0	0.9	0.0	0.0	19.4	
Boiler Feed Water Pump A	Leq,D	97.1	3	347.99	-61.8	5.4	-18.7	-1.2		0.0	2.1	0.0	0.0	22.9	
Boiler Feed Water Pump B	Leq,D	97.1	3	349.74	-61.9	5.4	-19.4	-1.2		0.0	0.0	0.0	0.0	20.0	
C370 A Motor	Leq,D	103.6	3	413.91	-63.3	5.0	-13.1	-1.2		0.0	0.0	0.0	0.0	30.9	
C370 B Motor	Leq,D	108.6	3	404.61	-63.1	4.9	-13.5	-1.2		0.0	0.0	0.0	0.0	35.7	
C370A	Leq,D	103.8	5	411.78	-63.3	5.0	-15.8	-1.1		0.0	0.0	0.0	0.0	28.6	
C370B	Leq,D	103.8	5	402.43	-63.1	5.0	-13.0	-1.2		0.0	0.0	0.0	0.0	31.4	
C-270 A	Leq,D	106.3	6	382.28	-62.6	5.0	-20.4	-1.3	-0.78	0.0	0.3	0.0	0.0	26.5	
C-270 B	Leq,D	106.3	6	385.65	-62.7	5.0	-19.9	-1.2	-0.79	0.0	0.2	0.0	0.0	26.9	
C-270 C	Leq,D	106.3	6	388.93	-62.8	5.0	-19.7	-1.2	-0.73	0.0	0.2	0.0	0.0	27.1	
C-301 Compressor	Leq,D	106.8	3	353.32	-62.0	4.9	-19.0	-1.1	-0.15	0.0	0.0	0.0	0.0	29.4	
C-301 Motor	Leq,D	106.8	4	355.86	-62.0	4.9	-20.5	-1.9	-0.18	0.0	0.0	0.0	0.0	27.1	
C-351 Compressor	Leq,D	106.8	4	364.86	-62.2	4.9	-17.2	-1.1	-0.60	0.0	0.0	0.0	0.0	30.7	
C-351 Motor	Leq,D	106.8	5	368.57	-62.3	4.7	-18.7	-1.7	-0.84	0.0	0.0	0.0	0.0	27.9	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	518.03	-65.3	5.6	-15.0	-0.7	-0.22	0.0	0.0	-33.5	0.0	25.7	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	541.52	-65.7	5.3	-21.2	-1.2	-0.79	0.4	0.0	0.0	0.0	21.6	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	536.24	-65.6	5.3	-15.2	-1.1	-1.06	0.0	0.0	0.0	0.0	22.8	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	546.80	-65.7	5.3	-13.6	-1.0	-0.56	4.5	0.0	0.0	0.0	35.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	551.56	-65.8	5.3	-22.9	-1.5	-1.03	-4.4	0.0	0.0	0.0	20.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	538.86	-65.6	5.3	-21.1	-1.2	-1.03	-4.4	0.0	0.0	0.0	15.6	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	559.64	-66.0	5.3	-21.7	-1.6	-0.78	-7.8	0.0	0.0	0.0	7.9	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	470.55	-64.4	5.2	-20.3	-1.2		0.4	0.5	0.0	0.0	18.1	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	482.40	-64.7	5.2	-21.9	-1.5		-7.8	0.0	0.0	0.0	7.3	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	447.48	-64.0	4.9	-19.5	-1.1		0.4	0.0	0.0	0.0	21.3	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	464.54	-64.3	5.0	-22.5	-1.6		-7.8	5.9	0.0	0.0	15.4	
Cooling Tower M 512	Leq,D	95.7		478.56	-64.6	5.5	-23.0	-2.0		0.0	0.0	0.0	0.0	11.6	
Cooling Tower M 513	Leq,D	95.7		479.97	-64.6	5.5	-23.0	-2.0		0.0	0.0	0.0	0.0	11.5	
Cooling Tower M 514	Leq,D	95.7		477.17	-64.6	5.5	-23.0	-2.0		0.0	0.0	0.0	0.0	11.7	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	342.34	-61.7	3.8	-14.1	-0.5		-1.5	0.0	0.0	0.0	21.8	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	328.95	-61.3	4.9	-12.7	-0.1		0.0	0.0	0.0	0.0	26.1	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	329.40	-61.3	5.0	-13.1	-0.1		0.0	0.0	0.0	0.0	23.5	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	330.17	-61.4	4.4	-12.1	-0.1		0.0	0.0	0.0	0.0	24.2	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	330.93	-61.4	4.9	-13.6	-0.1		0.0	0.0	0.0	0.0	23.0	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	331.38	-61.4	4.9	-14.5	-0.1		0.0	0.0	0.0	0.0	24.3	
FD Motor	Leq,D	103.3	2	327.83	-61.3	5.1	-22.7	-2.2		0.0	1.8	0.0	0.0	23.9	
Feed Compressor -B Motor	Leq,D	103.8	5	381.94	-62.6	4.9	-22.6	-2.3		0.0	0.0	0.0	0.0	21.1	
Feed Compressor-A Compressor	Leq,D	104.0	5	391.43	-62.8	5.0	-16.5	-1.2		0.0	0.1	0.0	0.0	28.6	
Feed Compressor-A Motor	Leq,D	103.8	6	393.95	-62.9	4.9	-16.4	-1.8		0.0	0.0	0.0	0.0	27.6	
Feed Compressor-B Compressor	Leq,D	104.0	7	378.96	-62.6	5.0	-14.5	-1.2		0.0	0.0	0.0	0.0	30.7	
H2S Compressor 18-C-271	Leq,D	105.3	6	514.16	-65.2	5.4	-20.0	-1.5	-0.38	0.0	0.0	0.0	0.0	23.6	
Heater # 5-Heater	Leq,D	91.1	13	408.83	-63.2	5.4	-21.7	-1.1	-1.40	0.0	2.6	0.0	0.0	14.7	
Heater # 5-Heater	Leq,D	91.1	13	411.66	-63.3	5.4	-22.3	-1.1	-1.34	0.0	0.2	0.0	0.0	11.6	
Heater # 5-Heater	Leq,D	91.1	13	406.13	-63.2	5.4	-21.8	-1.1	-1.17	0.0	0.6	0.0	0.0	12.8	
Hydro Heater H-402	Leq,D	98.1		504.28	-65.0	5.5	-21.7	-1.2		0.0	0.4	0.0	0.0	16.0	
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	320.42	-61.1	5.1	-11.5	-0.1		0.0	0.0	0.0	0.0	19.4	
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	321.31	-61.1	5.1	-14.4	-0.1		0.0	0.0	0.0	0.0	16.7	
ID Fan-ID Fan - North	Leq,D	92.2	8	321.53	-61.1	5.1	-11.9	-0.1		0.0	0.0	0.0	0.0	24.2	
ID Fan-ID Fan - North 2	Leq,D	91.4	7	319.53	-61.1	5.1	-16.8	-0.1		0.0	0.0	0.0	0.0	18.5	
ID Fan-ID Fan - South	Leq,D	92.3	9	322.81	-61.2	5.1	-14.2	-0.1		0.0	0.1	0.0	0.0	22.1	
ID Fan-ID Fan - South 2	Leq,D	91.4	7	320.10	-61.1	5.1	-15.0	-0.1		0.0	0.0	0.0	0.0	20.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	321.53	-61.1	4.7	-13.3	-0.1		0.0	0.3	0.0	0.0	24.4
Motor & Pump P 56A/B	Leq,D	93.7		507.57	-65.1	5.5	-21.7	-2.2	-0.45	0.0	0.3	0.0	0.0	10.0
Motor & Pump P 120/121	Leq,D	96.2	2	510.07	-65.1	5.6	-20.5	-1.5	-0.23	0.0	0.0	0.0	0.0	14.4
Motor & Pump P 211/212	Leq,D	93.7		533.27	-65.5	5.6	-21.8	-2.3	-0.60	0.0	0.0	0.0	0.0	9.0
Motor & Pump P 215/214	Leq,D	94.6		532.10	-65.5	5.6	-20.6	-2.1	-0.61	0.0	0.0	0.0	0.0	11.4
Motor & Pump P 216	Leq,D	98.3		539.48	-65.6	5.6	-23.2	-3.0	-0.25	0.0	0.0	0.0	0.0	11.8
Motor & Pump P 217/218	Leq,D	93.7		532.94	-65.5	5.7	-23.7	-3.1	-0.26	0.0	0.0	0.0	0.0	6.7
Motor & Pump P 300	Leq,D	97.1	2	521.39	-65.3	5.6	-20.0	-1.5	-0.23	0.0	1.2	0.0	0.0	16.9
Motor & Pump P 301	Leq,D	102.1	2	521.69	-65.3	5.6	-19.9	-1.5	-0.23	0.0	1.2	0.0	0.0	21.9
Motor & Pump P 302	Leq,D	97.1	2	521.08	-65.3	5.6	-20.0	-1.5	-0.03	0.0	1.0	0.0	0.0	16.9
Motor & Pump P 303	Leq,D	97.1	2	520.93	-65.3	5.6	-21.4	-1.6		0.0	1.6	0.0	0.0	16.0
Motor & Pump P 305	Leq,D	97.5	2	520.68	-65.3	5.6	-20.1	-1.5		0.0	1.2	0.0	0.0	17.4
Motor & Pump P 306	Leq,D	112.6	4	519.15	-65.3	5.5	-21.5	-1.7		0.0	0.8	0.0	0.0	30.4
Motor & Pump P 307	Leq,D	102.1	2	522.58	-65.4	5.6	-19.4	-1.5	-0.23	0.0	0.0	0.0	0.0	21.2
Motor & Pump P 309	Leq,D	97.5	2	520.44	-65.3	5.6	-23.0	-1.8		0.0	1.7	0.0	0.0	14.7
Motor & Pump P 312	Leq,D	101.5	2	527.07	-65.4	5.7	-21.0	-1.6	-0.24	0.0	0.0	0.0	0.0	18.9
Motor & Pump P 313	Leq,D	101.5	2	527.48	-65.4	5.7	-20.3	-1.5	-0.55	0.0	0.0	0.0	0.0	19.4
Motor & Pump P 315	Leq,D	102.9	2	529.24	-65.5	5.6	-16.5	-1.5	-0.55	0.0	0.0	0.0	0.0	24.5
Motor & Pump P 316	Leq,D	102.9	2	529.73	-65.5	5.6	-18.5	-1.5	-0.55	0.0	0.1	0.0	0.0	22.7
Motor & Pump P 317	Leq,D	102.9	2	530.12	-65.5	5.6	-22.6	-1.9	-0.06	0.0	0.3	0.0	0.0	18.7
Motor & Pump P 318	Leq,D	100.2	1	528.28	-65.4	5.7	-16.8	-1.5	-0.55	0.0	0.0	0.0	0.0	21.6
Motor & Pump P 319	Leq,D	100.2	1	527.93	-65.4	5.7	-16.8	-1.5	-0.54	0.0	0.0	0.0	0.0	21.6
Motor & Pump P 327	Leq,D	111.2	3	518.70	-65.3	5.6	-23.6	-2.8		0.0	2.9	0.0	0.0	28.1
Motor & Pump P 328	Leq,D	109.9	5	519.99	-65.3	5.5	-22.7	-1.7		0.0	1.7	0.0	0.0	27.4
Motor & Pump P 329	Leq,D	110.2	5	519.54	-65.3	5.5	-22.7	-1.7		0.0	1.6	0.0	0.0	27.5
Motor & Pump P 451	Leq,D	93.7		505.30	-65.1	5.5	-22.8	-2.7		0.0	1.4	0.0	0.0	10.0
Motor & Pump P 453	Leq,D	93.7		506.42	-65.1	5.5	-21.9	-2.5		0.0	0.0	0.0	0.0	9.7
Motor & Pump P 454	Leq,D	93.7		506.58	-65.1	5.5	-22.8	-2.7		0.0	0.0	0.0	0.0	8.6
Motor & Pump P 457	Leq,D	93.7		506.94	-65.1	5.5	-21.8	-2.5		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 458	Leq,D	93.7		504.21	-65.0	5.5	-22.8	-2.7		0.0	0.0	0.0	0.0	8.7
Motor & Pump P 459	Leq,D	93.7		506.27	-65.1	5.5	-21.7	-2.2		0.0	0.0	0.0	0.0	10.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		483.18	-64.7	5.6	-19.6	-1.9	-0.31	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		482.73	-64.7	5.6	-19.5	-1.9	-0.30	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		466.03	-64.4	5.6	-23.9	-2.8	-0.21	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		465.80	-64.4	5.6	-22.9	-2.3	-0.18	0.0	0.0	0.0	0.0	11.2
Motor & Pump P 1601 A	Leq,D	96.3	2	455.82	-64.2	5.4	-21.9	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P 1601 B	Leq,D	96.3	2	454.33	-64.1	5.4	-22.0	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P 1602 A	Leq,D	96.3	2	453.27	-64.1	5.4	-22.0	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P 1602 B	Leq,D	96.5	2	451.83	-64.1	5.4	-22.2	-2.0		0.0	0.0	0.0	0.0	13.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	474.05	-64.5	5.6	-23.4	-2.8	-0.25	0.0	0.0	0.0	0.0	11.3
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	472.80	-64.5	5.6	-16.7	-1.8	-0.18	0.0	0.0	0.0	0.0	19.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	472.16	-64.5	5.6	-16.8	-1.8	-0.18	0.0	0.0	0.0	0.0	18.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	481.79	-64.6	5.6	-16.5	-1.9	-0.31	0.0	0.0	0.0	0.0	19.0
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	481.31	-64.6	5.6	-16.5	-1.9	-0.31	0.0	0.0	0.0	0.0	19.0
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	464.27	-64.3	5.6	-17.0	-1.8	-0.02	0.0	0.0	0.0	0.0	18.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	466.49	-64.4	5.6	-17.0	-1.8	-0.07	0.0	0.0	0.0	0.0	18.7
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	470.41	-64.4	5.6	-17.3	-1.8	-0.17	0.0	0.0	0.0	0.0	18.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	468.68	-64.4	5.6	-16.9	-1.8	-0.13	0.0	0.0	0.0	0.0	18.6
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	482.85	-64.7	5.4	-21.8	-1.6		0.0	1.1	0.0	0.0	22.5
P-2 A/B	Leq,D	98.5		341.64	-61.7	5.7	-24.4	-1.5		0.0	2.4	0.0	0.0	19.0
P-50 A/B	Leq,D	98.1		338.50	-61.6	5.7	-24.0	-1.4	-0.16	0.0	0.3	0.0	0.0	17.0
P-51 A/B	Leq,D	98.1		342.13	-61.7	5.7	-23.4	-1.3	-0.16	0.0	0.0	0.0	0.0	17.2
P-060 A/B	Leq,D	98.1		329.73	-61.4	5.6	-24.3	-1.4	-0.16	0.0	0.0	0.0	0.0	16.5
P-63	Leq,D	98.5		362.99	-62.2	5.7	-24.5	-1.6		0.0	0.0	0.0	0.0	15.9
P-70 A/B	Leq,D	98.1		333.65	-61.5	5.6	-24.2	-1.4	-0.16	0.0	0.1	0.0	0.0	16.6
P-73 A/B	Leq,D	98.5		343.43	-61.7	5.7	-24.4	-1.5		0.0	2.4	0.0	0.0	18.9
P-251 A/B	Leq,D	98.2		410.49	-63.3	5.7	-22.6	-1.4	-0.69	0.0	0.2	0.0	0.0	16.2
P-252 A/B	Leq,D	98.2		400.75	-63.0	5.7	-22.7	-1.4	-0.32	0.0	0.2	0.0	0.0	16.7
P-253	Leq,D	98.2		394.67	-62.9	5.7	-22.8	-1.4	-0.31	0.0	0.2	0.0	0.0	16.7
P-254 A/B	Leq,D	98.2		401.60	-63.1	5.7	-22.5	-1.3	-0.62	0.0	0.2	0.0	0.0	16.6
P-255 A/B	Leq,D	98.2		404.27	-63.1	5.7	-22.4	-1.3	-0.67	0.0	0.2	0.0	0.0	16.5
P-255 A/B	Leq,D	98.2		416.12	-63.4	5.7	-22.6	-1.4	-0.69	0.0	0.2	0.0	0.0	16.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		407.75	-63.2	5.7	-22.7	-1.4	-0.68	0.0	0.2	0.0	0.0	16.2
P-259 A/B	Leq,D	98.2		413.21	-63.3	5.7	-22.6	-1.4	-0.69	0.0	0.2	0.0	0.0	16.2
P-260	Leq,D	99.1		416.28	-63.4	5.7	-22.7	-1.4	-0.33	0.0	0.0	0.0	0.0	17.0
P-261 A/B	Leq,D	98.0		435.93	-63.8	5.7	-20.1	-1.4	-0.35	0.0	0.0	0.0	0.0	18.2
P-262 A/B	Leq,D	99.1		423.25	-63.5	5.7	-22.4	-1.4	-0.33	0.0	0.0	0.0	0.0	17.1
P-263 A/B	Leq,D	99.4		419.80	-63.5	5.7	-22.5	-1.4	-0.32	0.0	0.0	0.0	0.0	17.4
P-270 A/B	Leq,D	98.5		368.54	-62.3	5.7	-22.3	-1.3	-0.29	0.0	0.0	0.0	0.0	18.0
P-271 A/B	Leq,D	98.2		394.08	-62.9	5.7	-22.7	-1.4	-0.33	0.0	0.7	0.0	0.0	17.3
P-272 A/B	Leq,D	98.2		397.71	-63.0	5.7	-22.6	-1.3	-0.47	0.0	0.4	0.0	0.0	16.9
P-273 A/B	Leq,D	98.5		371.13	-62.4	5.7	-22.5	-1.3	-0.30	0.0	0.0	0.0	0.0	17.7
P-275 A/B/C	Leq,D	98.2		385.62	-62.7	5.7	-22.7	-1.3	-0.27	0.0	0.4	0.0	0.0	17.2
P-305	Leq,D	99.3		403.74	-63.1	5.7	-22.0	-1.3	-1.65	0.0	1.8	0.0	0.0	18.8
P-306	Leq,D	100.8		398.00	-63.0	5.7	-22.7	-1.4	-1.49	0.0	2.4	0.0	0.0	20.4
P-309	Leq,D	99.3		402.26	-63.1	5.7	-22.0	-1.3	-1.64	0.0	2.4	0.0	0.0	19.4
P-328	Leq,D	100.8		394.75	-62.9	5.7	-23.0	-1.4	-1.29	0.0	1.2	0.0	0.0	19.1
P-329	Leq,D	100.8		396.22	-63.0	5.7	-22.8	-1.4	-1.39	0.0	1.2	0.0	0.0	19.2
P-353	Leq,D	98.5		391.20	-62.8	5.5	-18.7	-1.2	-1.39	0.0	0.9	0.0	0.0	20.8
P-358 A/B	Leq,D	99.4		359.75	-62.1	5.7	-21.8	-1.2	-0.82	0.0	1.4	0.0	0.0	20.5
P-359 A/B	Leq,D	99.4		363.47	-62.2	5.7	-22.8	-1.3	-0.94	0.0	1.7	0.0	0.0	19.5
P-360 A/B	Leq,D	99.4		370.87	-62.4	5.7	-22.6	-1.3	-1.00	0.0	1.8	0.0	0.0	19.6
P-361A	Leq,D	98.1		312.62	-60.9	5.3	-22.8	-1.2	-0.20	0.0	0.0	0.0	0.0	18.4
P-371 A/B	Leq,D	98.0		451.19	-64.1	5.5	-17.2	-1.4		0.0	0.0	0.0	0.0	20.9
P-373 A/B	Leq,D	98.0		432.97	-63.7	5.5	-19.7	-1.3		0.0	0.0	0.0	0.0	18.8
P-374 A/B	Leq,D	98.0		436.49	-63.8	5.5	-20.4	-1.5		0.0	0.0	0.0	0.0	17.8
P-375 A/B	Leq,D	98.0		444.50	-63.9	5.5	-20.7	-1.5		0.0	0.0	0.0	0.0	17.4
P-376	Leq,D	98.0		438.81	-63.8	5.5	-20.5	-1.5		0.0	0.0	0.0	0.0	17.7
P-376 A/B	Leq,D	98.0		429.11	-63.6	5.5	-18.2	-1.3		0.0	0.0	0.0	0.0	20.4
P-377	Leq,D	98.0		440.86	-63.9	5.5	-20.6	-1.5		0.0	0.0	0.0	0.0	17.6
P-1101 A	Leq,D	98.9		327.96	-61.3	5.4	-23.3	-1.3		0.0	0.0	0.0	0.0	18.3
P-1103	Leq,D	98.9		328.56	-61.3	5.4	-23.4	-1.3		0.0	0.0	0.0	0.0	18.2
P-1105 A/B/C	Leq,D	98.9		325.35	-61.2	5.4	-23.4	-1.3		0.0	1.9	0.0	0.0	20.2
P-1800	Leq,D	98.9		354.94	-62.0	5.7	-4.9	-1.6		0.0	0.3	0.0	0.0	36.3
P-1801	Leq,D	98.9		338.32	-61.6	5.7	-24.9	-1.6		0.0	6.1	0.0	0.0	22.6
P-1802	Leq,D	98.9		335.88	-61.5	5.6	-24.9	-1.6		0.0	7.6	0.0	0.0	24.1
P-1803	Leq,D	99.1		297.02	-60.4	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.3
P-1804	Leq,D	99.1		303.19	-60.6	5.6	-24.0	-1.3		0.0	0.0	0.0	0.0	18.8
P-1805	Leq,D	99.1		301.56	-60.6	5.6	-24.3	-1.3		0.0	0.0	0.0	0.0	18.5
P-1806	Leq,D	99.1		311.20	-60.9	5.6	-24.3	-1.4		0.0	2.0	0.0	0.0	20.2
P-1809 A	Leq,D	98.9		346.37	-61.8	5.7	-24.8	-1.6		0.0	2.6	0.0	0.0	18.9
P-1810 A/B/C	Leq,D	99.0		290.16	-60.2	5.6	-24.2	-1.3		0.0	0.0	0.0	0.0	18.9
P-1811 A/B	Leq,D	99.1		307.17	-60.7	5.6	-24.3	-1.4		0.0	2.0	0.0	0.0	20.3
P-1811 A/B	Leq,D	99.1		299.68	-60.5	5.6	-24.4	-1.3		0.0	0.0	0.0	0.0	18.5
P-1847 A/B	Leq,D	99.4		249.82	-58.9	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.8
P-1849 A/B	Leq,D	99.4		245.20	-58.8	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.9
P-1853	Leq,D	99.1		422.63	-63.5	5.7	-22.5	-1.4	-0.68	0.0	0.8	0.0	0.0	17.6
Piping Furnace Tanks	Leq,D	87.1	72	367.51	-62.3	4.1	-23.6	-6.8		0.0	0.2	0.0	0.0	-1.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	387.43	-62.8	4.3	-21.4	-5.3		0.0	0.1	0.0	0.0	13.4
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	403.75	-63.1	4.9	-24.7	-3.2		0.0	0.0	0.0	0.0	28.4
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	401.56	-63.1	4.9	-24.8	-8.2		0.0	0.2	0.0	0.0	24.2
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	214.88	-57.6	3.6	-11.4	-0.8		0.0	1.2	0.0	0.0	45.4
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	208.09	-57.4	3.5	-18.4	-0.7		0.0	0.3	0.0	0.0	38.5
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	230.57	-58.2	3.5	-23.0	-1.0		0.0	0.4	0.0	0.0	25.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	243.75	-58.7	3.6	-23.1	-1.0		0.0	4.1	0.0	0.0	36.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	244.55	-58.8	3.6	-23.8	-1.1		0.0	0.2	0.0	0.0	24.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	224.38	-58.0	3.5	-23.6	-1.0		0.0	0.2	0.0	0.0	24.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	240.06	-58.6	3.6	-23.4	-1.0		0.0	0.3	0.0	0.0	27.6
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	248.32	-58.9	3.6	-24.0	-1.1		0.0	0.1	0.0	0.0	25.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	226.27	-58.1	3.0	-20.4	-0.7		0.0	1.4	0.0	0.0	38.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	387.27	-62.8	3.3	-19.2	-2.3		0.0	0.0	0.0	0.0	-0.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	406.72	-63.2	4.9	-24.9	-3.4		0.0	0.0	0.0	0.0	30.1
Reformer-Burner Reformer East	Leq,D	97.3	269	349.75	-61.9	3.5	-17.9	-1.2		0.0	0.0	0.0	0.0	22.8
Reformer-Burner Reformer North	Leq,D	95.9	192	361.27	-62.1	3.4	-23.5	-1.9		0.0	0.2	0.0	0.0	11.9
Reformer-Burner Reformer South	Leq,D	95.8	191	343.56	-61.7	3.4	-20.7	-1.5		0.0	0.6	0.0	0.0	18.6
Reformer-Burner Reformer West	Leq,D	97.3	268	354.90	-62.0	3.0	-21.8	-1.7		0.0	0.0	0.0	0.0	17.8
RFG A from battery to process	Leq,D	99.4	87	381.75	-62.6	4.3	-21.1	-5.1		0.0	0.1	0.0	0.0	14.9
RFG A from battery to process w NC	Leq,D	115.2	42	400.68	-63.0	4.9	-24.9	-8.7		0.0	0.1	0.0	0.0	23.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Stack Noise	Leq,D	108.4		318.11	-61.0	3.0	-5.9	-0.7		-5.4	0.0	0.0	0.0	38.3	
Steam Turbine-Facade 01	Leq,D	99.6	29	416.94	-63.4	5.3	-23.7	-4.8		0.0	0.0	0.0	0.0	13.0	
Steam Turbine-Facade 02	Leq,D	96.2	13	412.55	-63.3	5.3	-23.8	-4.8		0.0	0.0	0.0	0.0	9.6	
Steam Turbine-Facade 03	Leq,D	99.6	29	415.64	-63.4	5.3	-23.9	-5.0		0.0	0.0	0.0	0.0	12.7	
Steam Turbine-Facade 04	Leq,D	96.2	13	420.07	-63.5	5.3	-24.2	-5.3		0.0	0.0	0.0	0.0	8.6	
Steam Turbine-Roof 01	Leq,D	99.7	30	416.30	-63.4	4.9	-23.9	-5.0		0.0	0.0	0.0	0.0	12.4	
Tank Farm Pump 1	Leq,D	99.0	3	244.38	-58.8	5.2	-20.1	-1.3		0.0	0.0	0.0	0.0	24.0	
Tank Farm Pump 2	Leq,D	99.0	3	228.17	-58.2	5.1	-22.4	-1.3		0.0	0.3	0.0	0.0	22.5	
Tank Farm Pump 3	Leq,D	99.0	3	223.95	-58.0	5.1	-22.2	-1.3		0.0	0.0	0.0	0.0	22.6	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	641.72	-67.1	5.0	-10.3	-4.3	-0.02	0.0	0.1	-11.8	0.0	24.0	
XF-1502 Splitter Area 1	Leq,D	104.5		469.62	-64.4	3.9	-11.7	-1.7	-0.10	-3.1	0.0	0.0	0.0	27.4	
XF-1502 Splitter Area 2	Leq,D	104.5		470.60	-64.4	3.9	-15.8	-1.6	-0.07	-2.8	0.0	0.0	0.0	23.8	
XF-1504 Splitter Area 1	Leq,D	104.5		465.36	-64.3	3.9	-11.8	-1.7	-0.02	-3.1	0.0	0.0	0.0	27.4	
XF-1504 Splitter Area 2	Leq,D	104.5		466.35	-64.4	3.9	-16.2	-1.5	-0.02	-2.7	0.0	0.0	0.0	23.5	
XF 251, 250, 271, 270	Leq,D	101.1	128	390.45	-62.8	3.8	-14.6	-0.6	0.00	-1.4	0.1	0.0	0.0	25.6	
XF 260, 261A, 261 B	Leq,D	99.9	97	431.07	-63.7	4.1	-15.6	-0.6	0.00	-1.4	0.0	0.0	0.0	22.6	
XF 304, XF 321	Leq,D	110.5	56	527.88	-65.4	4.1	-15.5	-0.8	-0.04	-1.4	0.3	0.0	0.0	31.7	
XF 313, XF 314	Leq,D	113.0	18	523.22	-65.4	4.4	-15.5	-1.2		-2.5	0.5	0.0	0.0	33.4	
XF 335-1, XF 335-2	Leq,D	113.4	54	525.69	-65.4	4.1	-15.0	-1.0	-0.05	-1.6	0.5	0.0	0.0	34.9	
XF 353A/B	Leq,D	95.4	35	362.21	-62.2	3.7	-16.2	-0.5	-0.01	-1.5	0.2	0.0	0.0	18.9	
XF 353A/B	Leq,D	95.4	35	352.86	-61.9	3.6	-13.8	-0.5	0.00	-1.5	0.0	0.0	0.0	21.3	
XF 354A/B	Leq,D	95.4	35	398.04	-63.0	3.9	-14.3	-0.6		-1.5	0.2	0.0	0.0	20.2	
XF 503	Leq,D	113.0	21	521.69	-65.3	4.5	-18.1	-1.5	-0.47	-2.7	0.0	0.0	0.0	29.6	
XF - 1601	Leq,D	96.6		454.27	-64.1	3.0	-11.0	-0.7		-0.9	0.0	0.0	0.0	22.8	
XF - 1602	Leq,D	96.6		448.59	-64.0	3.0	-11.2	-0.6		-1.0	0.0	0.0	0.0	22.8	
XF Module 1510	Leq,D	108.3		477.21	-64.6	4.1	-16.3	-1.6	-0.23	-2.7	0.0	0.0	0.0	27.0	
XF Module 1519	Leq,D	109.0		475.79	-64.5	4.1	-12.0	-1.7	-0.23	-3.0	0.0	0.0	0.0	31.6	
xxxx xxxx xxxx xxxx	Leq,D		228								9.1			32.5	
xxxx xxxx xxxx xxxx	Leq,D		520								4.3			61.7	
xxxx xxxx xxxx xxxx	Leq,D		1341								5.9			45.8	
xxxx xxxx xxxx xxxx	Leq,D		450								5.6			31.7	
Receiver E-1 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 60.0 dB(A)		Ld 7-19 dB(A)		Leq,N 60.9 dB(A)		Le 19-22 dB(A)		CNEL 67.2 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	411.43	-63.3	5.3	-20.9	-1.7		0.0	0.0	0.0	0.0	23.7	
18-1855 A/B	Leq,D	98.8		449.75	-64.1	5.6	-22.5	-1.5		0.0	0.0	0.0	0.0	16.4	
18-1856 A/B	Leq,D	98.8		443.61	-63.9	5.6	-21.8	-1.4		0.0	0.0	0.0	0.0	17.3	
18-1857 A/B	Leq,D	98.8		455.70	-64.2	5.6	-22.5	-1.5		0.0	0.0	0.0	0.0	16.3	
18-1858 A/B	Leq,D	98.8		459.89	-64.2	5.5	-22.7	-1.5		0.0	0.0	0.0	0.0	15.8	
18-PK 1802 Air Compressor Package	Leq,D	103.1		443.43	-63.9	5.7	-18.5	-0.7		0.0	0.0	0.0	0.0	25.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	589.30	-66.4	5.6	-19.9	-1.4	-0.12	0.0	0.0	-2.7	0.0	24.0	
Air Compressor C 1	Leq,D	110.0	5	604.29	-66.6	5.7	-22.8	-1.5		0.0	4.6	0.0	0.0	29.4	
Air Compressor Pump	Leq,D	100.3		521.34	-65.3	5.6	-22.6	-2.8		0.0	0.0	0.0	0.0	15.1	
Blower F 401	Leq,D	113.0		617.97	-66.8	5.5	-19.6	-0.8	-0.14	0.0	0.0	0.0	0.0	31.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	471.10	-64.5	5.4	-19.9	-0.9	-0.89	0.0	1.2	0.0	0.0	19.1	
Boiler Feed Water Pump A	Leq,D	97.1	3	432.45	-63.7	5.5	-21.9	-1.5		0.0	0.0	0.0	0.0	15.5	
Boiler Feed Water Pump B	Leq,D	97.1	3	433.84	-63.7	5.5	-21.9	-1.5		0.0	0.0	0.0	0.0	15.5	
C370 A Motor	Leq,D	103.6	3	502.98	-65.0	5.1	-20.4	-1.5		0.0	0.0	0.0	0.0	21.9	
C370 B Motor	Leq,D	108.6	3	493.28	-64.9	5.1	-20.7	-1.5		0.0	0.0	0.0	0.0	26.8	
C370A	Leq,D	103.8	5	501.18	-65.0	5.2	-20.3	-1.5		0.0	0.0	0.0	0.0	22.2	
C370B	Leq,D	103.8	5	491.46	-64.8	5.2	-20.7	-1.5		0.0	0.0	0.0	0.0	22.0	
C-270 A	Leq,D	106.3	6	452.76	-64.1	5.1	-20.4	-1.4	-0.92	0.0	0.2	0.0	0.0	24.9	
C-270 B	Leq,D	106.3	6	456.66	-64.2	5.2	-20.3	-1.4	-0.94	0.0	0.3	0.0	0.0	25.0	
C-270 C	Leq,D	106.3	6	460.45	-64.3	5.2	-20.0	-1.4	-0.88	0.0	0.4	0.0	0.0	25.4	
C-301 Compressor	Leq,D	106.8	3	424.96	-63.6	5.1	-19.8	-1.3	-0.18	0.0	0.0	0.0	0.0	27.1	
C-301 Motor	Leq,D	106.8	4	427.93	-63.6	5.1	-21.2	-2.0	-0.22	0.0	0.0	0.0	0.0	24.8	
C-351 Compressor	Leq,D	106.8	4	433.92	-63.7	5.1	-21.0	-1.4	-0.71	0.0	0.0	0.0	0.0	25.1	
C-351 Motor	Leq,D	106.8	5	437.05	-63.8	4.9	-21.5	-2.1	-0.87	0.0	0.0	0.0	0.0	23.5	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	603.04	-66.6	5.7	-17.7	-0.8	-0.23	0.0	0.0	-33.5	0.0	21.6	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	635.20	-67.1	5.4	-22.1	-1.5	-0.50	0.3	0.0	0.0	0.0	19.2	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	630.08	-67.0	5.4	-21.5	-1.7	-0.80	0.0	0.0	0.0	0.0	14.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	640.88	-67.1	5.4	-18.9	-1.1	-0.62	4.6	0.0	0.0	0.0	28.6	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	645.24	-67.2	5.4	-23.7	-1.8	-0.42	-4.0	0.0	0.0	0.0	18.9	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	632.61	-67.0	5.4	-24.6	-2.2	-0.12	-3.9	0.0	0.0	0.0	11.3	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	653.61	-67.3	5.4	-23.0	-2.0	-0.35	-7.8	0.0	0.0	0.0	5.3	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	563.43	-66.0	5.4	-23.7	-2.1		0.3	0.1	0.0	0.0	11.8	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	575.46	-66.2	5.3	-23.5	-2.0		-7.8	0.0	0.0	0.0	3.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	539.89	-65.6	5.1	-22.1	-1.6		0.2	0.0	0.0	0.0	16.6
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	557.25	-65.9	5.2	-23.5	-2.0		-7.8	3.5	0.0	0.0	10.1
Cooling Tower M 512	Leq,D	95.7		571.20	-66.1	5.6	-24.3	-2.4		0.0	0.0	0.0	0.0	8.5
Cooling Tower M 513	Leq,D	95.7		572.63	-66.1	5.6	-24.1	-2.4		0.0	0.0	0.0	0.0	8.6
Cooling Tower M 514	Leq,D	95.7		569.78	-66.1	5.6	-24.3	-2.4		0.0	0.0	0.0	0.0	8.4
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	429.94	-63.7	4.3	-16.8	-0.6		-1.5	0.0	0.0	0.0	17.5
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	420.74	-63.5	5.2	-14.9	-0.1		0.0	0.0	0.0	0.0	22.0
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	421.39	-63.5	5.2	-15.3	-0.1		0.0	0.0	0.0	0.0	19.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	421.99	-63.5	4.7	-13.5	-0.1		0.0	0.0	0.0	0.0	21.0
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	422.58	-63.5	5.1	-16.6	-0.1		0.0	0.0	0.0	0.0	18.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	423.24	-63.5	5.2	-16.5	-0.1		0.0	0.0	0.0	0.0	20.3
FD Motor	Leq,D	103.3	2	419.59	-63.4	5.3	-24.3	-3.0		0.0	2.6	0.0	0.0	20.4
Feed Compressor -B Motor	Leq,D	103.8	5	468.34	-64.4	5.1	-22.5	-2.4		0.0	0.0	0.0	0.0	19.6
Feed Compressor-A Compressor	Leq,D	104.0	5	478.98	-64.6	5.2	-20.4	-1.4		0.0	0.0	0.0	0.0	22.7
Feed Compressor-A Motor	Leq,D	103.8	6	481.03	-64.6	5.1	-22.1	-2.3		0.0	0.1	0.0	0.0	19.9
Feed Compressor-B Compressor	Leq,D	104.0	7	465.91	-64.4	5.2	-21.0	-1.4		0.0	0.0	0.0	0.0	22.4
H2S Compressor 18-C-271	Leq,D	105.3	6	609.01	-66.7	5.5	-22.4	-2.0	-0.42	0.0	0.0	0.0	0.0	19.4
Heater # 5-Heater	Leq,D	91.1	13	469.58	-64.4	5.5	-23.1	-1.3	-0.97	0.0	3.7	0.0	0.0	13.4
Heater # 5-Heater	Leq,D	91.1	13	473.09	-64.5	5.5	-23.7	-1.4	-1.14	0.0	1.5	0.0	0.0	10.3
Heater # 5-Heater	Leq,D	91.1	13	466.19	-64.4	5.5	-22.9	-1.2	-0.89	0.0	1.2	0.0	0.0	11.4
Hydro Heater H-402	Leq,D	98.1		597.32	-66.5	5.6	-24.6	-1.9		0.0	0.0	0.0	0.0	10.7
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	410.99	-63.3	5.3	-8.0	-0.1		0.0	0.0	0.0	0.0	20.9
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	411.67	-63.3	5.3	-22.8	-0.1		0.0	0.5	0.0	0.0	6.8
ID Fan-ID Fan - North	Leq,D	92.2	8	412.19	-63.3	5.3	-10.4	-0.1		0.0	0.0	0.0	0.0	23.7
ID Fan-ID Fan - North 2	Leq,D	91.4	7	410.02	-63.2	5.3	-22.7	-0.1		0.0	0.0	0.0	0.0	10.7
ID Fan-ID Fan - South	Leq,D	92.3	9	413.18	-63.3	5.3	-22.9	-0.1		0.0	0.4	0.0	0.0	11.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	410.46	-63.3	5.3	-23.1	-0.1		0.0	0.6	0.0	0.0	10.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	412.04	-63.3	4.9	-12.1	-0.1		0.0	0.8	0.0	0.0	24.3
Motor & Pump P 56A/B	Leq,D	93.7		601.43	-66.6	5.6	-24.6	-3.7	-0.15	0.0	0.0	0.0	0.0	4.3
Motor & Pump P 120/121	Leq,D	96.2	2	605.65	-66.6	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	10.8
Motor & Pump P 211/212	Leq,D	93.7		626.24	-66.9	5.7	-24.5	-3.7	-0.58	0.0	0.0	0.0	0.0	3.6
Motor & Pump P 215/214	Leq,D	94.6		625.31	-66.9	5.7	-22.5	-2.6	-0.60	0.0	0.0	0.0	0.0	7.8
Motor & Pump P 216	Leq,D	98.3		632.56	-67.0	5.6	-24.7	-4.0	-0.25	0.0	0.0	0.0	0.0	8.0
Motor & Pump P 217/218	Leq,D	93.7		626.01	-66.9	5.8	-24.8	-4.0	-0.26	0.0	0.0	0.0	0.0	3.4
Motor & Pump P 300	Leq,D	97.1	2	617.09	-66.8	5.7	-22.7	-1.9	-0.23	0.0	0.0	0.0	0.0	11.1
Motor & Pump P 301	Leq,D	102.1	2	617.34	-66.8	5.7	-22.7	-1.9	-0.23	0.0	0.0	0.0	0.0	16.2
Motor & Pump P 302	Leq,D	97.1	2	616.83	-66.8	5.7	-22.8	-2.0	-0.12	0.0	0.0	0.0	0.0	11.1
Motor & Pump P 303	Leq,D	97.1	2	616.72	-66.8	5.7	-23.1	-2.0		0.0	0.0	0.0	0.0	10.8
Motor & Pump P 305	Leq,D	97.5	2	616.51	-66.8	5.7	-22.8	-2.0		0.0	0.0	0.0	0.0	11.7
Motor & Pump P 306	Leq,D	112.6	4	615.21	-66.8	5.6	-22.5	-2.1		0.0	0.1	0.0	0.0	27.0
Motor & Pump P 307	Leq,D	102.1	2	618.09	-66.8	5.7	-22.2	-1.9	-0.23	0.0	0.0	0.0	0.0	16.6
Motor & Pump P 309	Leq,D	97.5	2	616.31	-66.8	5.7	-23.7	-2.2		0.0	0.0	0.0	0.0	10.5
Motor & Pump P 312	Leq,D	101.5	2	621.87	-66.9	5.7	-22.3	-1.9	-0.54	0.0	0.0	0.0	0.0	15.7
Motor & Pump P 313	Leq,D	101.5	2	622.22	-66.9	5.7	-22.2	-1.9	-0.54	0.0	0.0	0.0	0.0	15.7
Motor & Pump P 315	Leq,D	102.9	2	623.75	-66.9	5.7	-24.5	-2.5	-0.06	0.0	0.0	0.0	0.0	14.7
Motor & Pump P 316	Leq,D	102.9	2	624.16	-66.9	5.7	-20.9	-1.8	-0.54	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 317	Leq,D	102.9	2	624.48	-66.9	5.7	-20.9	-1.8	-0.54	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 318	Leq,D	100.2	1	622.86	-66.9	5.8	-21.1	-1.8	-0.54	0.0	0.0	0.0	0.0	15.6
Motor & Pump P 319	Leq,D	100.2	1	622.56	-66.9	5.8	-21.1	-1.8	-0.54	0.0	0.0	0.0	0.0	15.6
Motor & Pump P 327	Leq,D	111.2	3	614.93	-66.8	5.7	-24.5	-3.5		0.0	1.2	0.0	0.0	23.4
Motor & Pump P 328	Leq,D	109.9	5	615.91	-66.8	5.6	-23.5	-2.1		0.0	0.0	0.0	0.0	23.2
Motor & Pump P 329	Leq,D	110.2	5	615.53	-66.8	5.6	-23.7	-2.1		0.0	0.0	0.0	0.0	23.2
Motor & Pump P 451	Leq,D	93.7		597.98	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 453	Leq,D	93.7		598.46	-66.5	5.6	-24.0	-3.2		0.0	0.0	0.0	0.0	5.5
Motor & Pump P 454	Leq,D	93.7		599.31	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 457	Leq,D	93.7		598.89	-66.5	5.6	-24.0	-3.2		0.0	0.0	0.0	0.0	5.5
Motor & Pump P 458	Leq,D	93.7		596.87	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 459	Leq,D	93.7		599.04	-66.5	5.6	-22.9	-2.7		0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		577.05	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.0
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		576.67	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		561.23	-66.0	5.6	-24.6	-3.5	-0.21	0.0	0.0	0.0	0.0	6.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		561.04	-66.0	5.6	-24.1	-3.1	-0.18	0.0	0.0	0.0	0.0	7.7
Motor & Pump P 1601 A	Leq,D	96.3	2	549.36	-65.8	5.5	-23.1	-2.6		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 1601 B	Leq,D	96.3	2	547.85	-65.8	5.5	-23.4	-2.7		0.0	0.0	0.0	0.0	10.0
Motor & Pump P 1602 A	Leq,D	96.3	2	546.76	-65.7	5.5	-23.6	-2.8		0.0	0.0	0.0	0.0	9.6
Motor & Pump P 1602 B	Leq,D	96.5	2	545.31	-65.7	5.5	-23.7	-2.8		0.0	0.0	0.0	0.0	9.8
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	567.83	-66.1	5.7	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.4

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	566.81	-66.1	5.6	-22.0	-2.3	-0.18	0.0	0.0	0.0	0.0	11.7	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	566.27	-66.1	5.7	-22.0	-2.3	-0.18	0.0	0.0	0.0	0.0	11.7	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	575.79	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.5	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	575.39	-66.2	5.6	-22.0	-2.3	-0.30	0.0	0.0	0.0	0.0	11.5	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	558.53	-65.9	5.7	-22.2	-2.3	-0.02	0.0	0.0	0.0	0.0	11.5	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	560.78	-66.0	5.7	-22.2	-2.3	-0.07	0.0	0.0	0.0	0.0	11.4	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	564.74	-66.0	5.6	-22.2	-2.3	-0.16	0.0	0.0	0.0	0.0	11.2	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	562.99	-66.0	5.7	-22.2	-2.3	-0.12	0.0	0.0	0.0	0.0	11.3	
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	578.70	-66.2	5.5	-23.4	-2.2		0.0	0.1	0.0	0.0	17.9	
P-2 A/B	Leq,D	98.5		391.31	-62.8	5.7	-9.1	-1.3		0.0	2.7	0.0	0.0	33.6	
P-50 A/B	Leq,D	98.1		397.73	-63.0	5.7	-23.1	-1.4	-0.12	0.0	0.0	0.0	0.0	16.2	
P-51 A/B	Leq,D	98.1		400.84	-63.1	5.7	-23.6	-1.5	-0.13	0.0	0.0	0.0	0.0	15.6	
P-060 A/B	Leq,D	98.1		390.31	-62.8	5.7	-22.7	-1.3	-0.12	0.0	0.0	0.0	0.0	16.8	
P-63	Leq,D	98.5		417.39	-63.4	5.7	-24.2	-1.7		0.0	0.9	0.0	0.0	15.9	
P-70 A/B	Leq,D	98.1		393.62	-62.9	5.7	-23.2	-1.4	-0.12	0.0	0.0	0.0	0.0	16.2	
P-73 A/B	Leq,D	98.5		393.98	-62.9	5.7	-9.1	-1.3		0.0	2.1	0.0	0.0	33.0	
P-251 A/B	Leq,D	98.2		488.49	-64.8	5.8	-20.5	-1.4	-0.82	0.0	0.0	0.0	0.0	16.4	
P-252 A/B	Leq,D	98.2		479.59	-64.6	5.8	-21.7	-1.5	-0.38	0.0	0.0	0.0	0.0	15.8	
P-253	Leq,D	98.2		472.90	-64.5	5.8	-20.7	-1.4	-0.37	0.0	0.0	0.0	0.0	17.0	
P-254 A/B	Leq,D	98.2		478.68	-64.6	5.8	-20.6	-1.4	-0.57	0.0	0.0	0.0	0.0	16.7	
P-255 A/B	Leq,D	98.2		481.64	-64.6	5.8	-20.6	-1.4	-0.66	0.0	0.0	0.0	0.0	16.6	
P-255 A/B	Leq,D	98.2		494.69	-64.9	5.8	-21.5	-1.5	-0.83	0.0	0.0	0.0	0.0	15.2	
P-256 A/B	Leq,D	98.2		485.48	-64.7	5.8	-20.6	-1.4	-0.78	0.0	0.0	0.0	0.0	16.5	
P-259 A/B	Leq,D	98.2		491.49	-64.8	5.8	-20.4	-1.4	-0.82	0.0	0.0	0.0	0.0	16.4	
P-260	Leq,D	99.1		496.57	-64.9	5.8	-21.3	-1.5	-0.39	0.0	0.0	0.0	0.0	16.8	
P-261 A/B	Leq,D	98.0		517.76	-65.3	5.8	-21.4	-1.6	-0.41	0.0	0.0	0.0	0.0	15.1	
P-262 A/B	Leq,D	99.1		504.13	-65.0	5.8	-21.5	-1.5	-0.40	0.0	0.0	0.0	0.0	16.4	
P-263 A/B	Leq,D	99.4		500.41	-65.0	5.8	-21.5	-1.5	-0.39	0.0	0.0	0.0	0.0	16.8	
P-270 A/B	Leq,D	98.5		441.81	-63.9	5.7	-21.0	-1.3	-0.35	0.0	0.0	0.0	0.0	17.7	
P-271 A/B	Leq,D	98.2		470.31	-64.4	5.7	-20.7	-1.4	-0.30	0.0	0.0	0.0	0.0	17.1	
P-272 A/B	Leq,D	98.2		474.36	-64.5	5.8	-20.7	-1.4	-0.43	0.0	0.0	0.0	0.0	16.9	
P-273 A/B	Leq,D	98.5		444.77	-64.0	5.7	-20.9	-1.3	-0.36	0.0	0.0	0.0	0.0	17.6	
P-275 A/B/C	Leq,D	98.2		462.93	-64.3	5.7	-20.9	-1.4	-0.25	0.0	0.0	0.0	0.0	17.2	
P-305	Leq,D	99.3		468.79	-64.4	5.7	-21.3	-1.4	-1.52	0.0	0.5	0.0	0.0	16.9	
P-306	Leq,D	100.8		461.77	-64.3	5.7	-21.5	-1.4	-1.66	0.0	0.4	0.0	0.0	18.1	
P-309	Leq,D	99.3		467.01	-64.4	5.7	-21.2	-1.4	-1.45	0.0	0.5	0.0	0.0	17.1	
P-328	Leq,D	100.8		457.74	-64.2	5.7	-21.9	-1.4	-1.49	0.0	0.0	0.0	0.0	17.5	
P-329	Leq,D	100.8		459.60	-64.2	5.7	-21.7	-1.4	-1.57	0.0	0.4	0.0	0.0	18.1	
P-353	Leq,D	98.5		457.54	-64.2	5.5	-20.9	-1.4	-1.43	0.0	0.0	0.0	0.0	16.1	
P-358 A/B	Leq,D	99.4		426.40	-63.6	5.7	-22.6	-1.4	-0.93	0.0	0.0	0.0	0.0	16.6	
P-359 A/B	Leq,D	99.4		429.54	-63.7	5.7	-22.1	-1.4	-0.88	0.0	0.0	0.0	0.0	17.1	
P-360 A/B	Leq,D	99.4		435.81	-63.8	5.7	-22.8	-1.5	-0.83	0.0	0.0	0.0	0.0	16.2	
P-361A	Leq,D	98.1		376.11	-62.5	5.4	-24.3	-1.6	-0.16	0.0	0.0	0.0	0.0	15.0	
P-371 A/B	Leq,D	98.0		541.94	-65.7	5.6	-24.5	-2.2		0.0	0.0	0.0	0.0	11.2	
P-373 A/B	Leq,D	98.0		523.30	-65.4	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.2	
P-374 A/B	Leq,D	98.0		526.93	-65.4	5.6	-19.5	-1.5		0.0	0.0	0.0	0.0	17.1	
P-375 A/B	Leq,D	98.0		535.17	-65.6	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	11.3	
P-376	Leq,D	98.0		529.31	-65.5	5.6	-19.5	-1.5		0.0	0.0	0.0	0.0	17.1	
P-376 A/B	Leq,D	98.0		519.34	-65.3	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.2	
P-377	Leq,D	98.0		531.42	-65.5	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	11.4	
P-1101 A	Leq,D	98.9		381.74	-62.6	5.5	-24.6	-1.7		0.0	1.1	0.0	0.0	16.5	
P-1103	Leq,D	98.9		382.62	-62.6	5.5	-24.6	-1.7		0.0	1.0	0.0	0.0	16.5	
P-1105 A/B/C	Leq,D	98.9		378.06	-62.5	5.5	-24.6	-1.7		0.0	1.0	0.0	0.0	16.5	
P-1800	Leq,D	98.9		397.60	-63.0	5.7	-24.7	-1.8		0.0	3.5	0.0	0.0	18.6	
P-1801	Leq,D	98.9		370.06	-62.4	5.7	-24.6	-1.6		0.0	1.4	0.0	0.0	17.4	
P-1802	Leq,D	98.9		367.85	-62.3	5.7	-24.7	-1.6		0.0	3.5	0.0	0.0	19.5	
P-1803	Leq,D	99.1		360.30	-62.1	5.7	-24.8	-1.6		0.0	0.0	0.0	0.0	16.2	
P-1804	Leq,D	99.1		361.89	-62.2	5.7	-24.5	-1.6		0.0	0.0	0.0	0.0	16.5	
P-1805	Leq,D	99.1		359.67	-62.1	5.7	-24.6	-1.6		0.0	0.0	0.0	0.0	16.5	
P-1806	Leq,D	99.1		378.34	-62.5	5.7	-24.7	-1.7		0.0	0.0	0.0	0.0	15.9	
P-1809 A	Leq,D	98.9		386.95	-62.7	5.7	-24.9	-1.8		0.0	1.1	0.0	0.0	16.3	
P-1810 A/B/C	Leq,D	99.0		349.47	-61.9	5.7	-24.8	-1.6		0.0	0.0	0.0	0.0	16.4	
P-1811 A/B	Leq,D	99.1		373.25	-62.4	5.7	-23.2	-1.3		0.0	0.0	0.0	0.0	17.9	
P-1811 A/B	Leq,D	99.1		357.03	-62.0	5.7	-24.6	-1.6		0.0	0.0	0.0	0.0	16.5	
P-1847 A/B	Leq,D	99.4		325.03	-61.2	5.6	-23.8	-1.3		0.0	0.0	0.0	0.0	18.8	
P-1849 A/B	Leq,D	99.4		319.48	-61.1	5.6	-23.9	-1.3		0.0	0.0	0.0	0.0	18.7	
P-1853	Leq,D	99.1		494.40	-64.9	5.8	-21.3	-1.5	-1.05	0.0	0.0	0.0	0.0	16.1	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Furnace Tanks	Leq,D	87.1	72	458.72	-64.2	4.4	-24.7	-8.9		0.0	0.2	0.0	0.0	-6.1
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	477.61	-64.6	4.6	-24.1	-6.9		0.0	0.1	0.0	0.0	7.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	496.61	-64.9	5.1	-24.7	-3.8		0.0	0.0	0.0	0.0	26.3
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	494.31	-64.9	5.1	-24.8	-9.0		0.0	0.1	0.0	0.0	21.7
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	267.75	-59.5	3.7	-7.2	-1.1		0.0	0.7	0.0	0.0	47.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	270.29	-59.6	3.7	-9.1	-1.0		0.0	0.0	0.0	0.0	45.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	297.56	-60.5	3.8	-23.0	-1.2		0.0	0.1	0.0	0.0	23.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	298.49	-60.5	3.8	-23.6	-1.2		0.0	0.8	0.0	0.0	30.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	308.49	-60.8	3.9	-23.7	-1.3		0.0	0.1	0.0	0.0	22.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	291.29	-60.3	3.8	-23.9	-1.2		0.0	0.2	0.0	0.0	22.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	306.44	-60.7	3.9	-23.8	-1.3		0.0	0.1	0.0	0.0	24.8
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	310.10	-60.8	3.9	-23.4	-1.2		0.0	0.2	0.0	0.0	24.7
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	284.99	-60.1	3.0	-10.4	-1.0		0.0	0.1	0.0	0.0	44.8
PSA Pipe 3" Lagging	Leq,D	80.6	11	479.68	-64.6	3.7	-21.9	-2.8		0.0	0.0	0.0	0.0	-5.1
PSA Skid Additional Piping w NC	Leq,D	116.6	57	499.62	-65.0	5.1	-24.9	-3.9		0.0	0.0	0.0	0.0	28.0
Reformer-Burner Reformer East	Leq,D	97.3	269	441.76	-63.9	3.8	-20.2	-1.5		0.0	0.0	0.0	0.0	18.5
Reformer-Burner Reformer North	Leq,D	95.9	192	453.00	-64.1	3.7	-24.4	-2.5		0.0	0.2	0.0	0.0	8.8
Reformer-Burner Reformer South	Leq,D	95.8	191	434.74	-63.8	3.6	-23.0	-2.0		0.0	0.5	0.0	0.0	14.0
Reformer-Burner Reformer West	Leq,D	97.3	268	445.87	-64.0	3.6	-24.6	-2.5		0.0	0.0	0.0	0.0	12.8
RFG A from battery to process	Leq,D	99.4	87	471.66	-64.5	4.6	-24.1	-6.8		0.0	0.1	0.0	0.0	8.8
RFG A from battery to process w NC	Leq,D	115.2	42	493.60	-64.9	5.1	-24.9	-9.5		0.0	0.1	0.0	0.0	21.2
Stack Noise	Leq,D	108.4		408.11	-63.2	3.0	-6.1	-1.3		-5.8	0.0	0.0	0.0	35.0
Steam Turbine-Facade 01	Leq,D	99.6	29	508.76	-65.1	5.4	-24.8	-6.5		0.0	0.0	0.0	0.0	8.6
Steam Turbine-Facade 02	Leq,D	96.2	13	504.40	-65.0	5.4	-24.8	-6.4		0.0	0.0	0.0	0.0	5.5
Steam Turbine-Facade 03	Leq,D	99.6	29	507.70	-65.1	5.4	-24.9	-6.6		0.0	0.0	0.0	0.0	8.4
Steam Turbine-Facade 04	Leq,D	96.2	13	512.09	-65.2	5.4	-24.9	-6.6		0.0	0.0	0.0	0.0	5.1
Steam Turbine-Roof 01	Leq,D	99.7	30	508.25	-65.1	5.1	-24.7	-6.2		0.0	0.0	0.0	0.0	8.7
Tank Farm Pump 1	Leq,D	99.0	3	324.65	-61.2	5.4	-23.9	-1.9		0.0	0.8	0.0	0.0	18.2
Tank Farm Pump 2	Leq,D	99.0	3	305.89	-60.7	5.3	-23.4	-1.7		0.0	0.0	0.0	0.0	18.6
Tank Farm Pump 3	Leq,D	99.0	3	300.83	-60.6	5.3	-23.9	-1.8		0.0	0.0	0.0	0.0	18.0
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	737.60	-68.3	5.1	-16.3	-2.4	-0.02	0.0	0.0	-11.8	0.0	18.6
XF-1502 Splitter Area 1	Leq,D	104.5		563.75	-66.0	4.2	-19.7	-1.8	-0.08	-2.6	0.0	0.0	0.0	18.6
XF-1502 Splitter Area 2	Leq,D	104.5		564.57	-66.0	4.2	-19.7	-1.8	-0.06	-2.6	0.0	0.0	0.0	18.6
XF-1504 Splitter Area 1	Leq,D	104.5		559.45	-65.9	4.2	-19.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	18.7
XF-1504 Splitter Area 2	Leq,D	104.5		560.27	-66.0	4.2	-19.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	18.7
XF 251, 250, 271, 270	Leq,D	101.1	128	467.14	-64.4	4.2	-15.2	-0.7	0.00	-1.5	0.0	0.0	0.0	23.5
XF 260, 261A, 261 B	Leq,D	99.9	97	511.57	-65.2	4.4	-16.8	-0.7	0.00	-1.4	0.0	0.0	0.0	20.1
XF 304, XF 321	Leq,D	110.5	56	623.50	-66.9	4.4	-16.4	-0.9	-0.04	-1.4	0.0	0.0	0.0	29.3
XF 313, XF 314	Leq,D	113.0	18	619.53	-66.8	4.7	-17.9	-1.3		-2.3	0.0	0.0	0.0	29.3
XF 335-1, XF 335-2	Leq,D	113.4	54	621.65	-66.9	4.4	-17.1	-1.1	-0.04	-1.5	0.0	0.0	0.0	31.3
XF 353A/B	Leq,D	95.4	35	426.88	-63.6	4.0	-15.3	-0.6	-0.01	-1.5	0.0	0.0	0.0	18.4
XF 353A/B	Leq,D	95.4	35	421.85	-63.5	4.0	-15.8	-0.6	0.00	-1.5	0.0	0.0	0.0	18.0
XF 354A/B	Leq,D	95.4	35	463.89	-64.3	4.2	-14.9	-0.7	0.00	-1.5	0.0	0.0	0.0	18.2
XF 503	Leq,D	113.0	21	615.39	-66.8	4.8	-22.6	-2.5	-0.25	-2.8	0.0	0.0	0.0	22.9
XF - 1601	Leq,D	96.6		547.68	-65.8	3.3	-15.7	-0.8		-1.0	0.0	0.0	0.0	16.7
XF - 1602	Leq,D	96.6		541.91	-65.7	3.3	-15.7	-0.8		-1.0	0.0	0.0	0.0	16.7
XF Module 1510	Leq,D	108.3		571.08	-66.1	4.4	-19.9	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.1
XF Module 1519	Leq,D	109.0		569.90	-66.1	4.4	-19.8	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.9
xxxx xxxx xxxx xxxx	Leq,D		228								10.8			31.7
xxxx xxxx xxxx xxxx	Leq,D		520								7.6			59.1
xxxx xxxx xxxx xxxx	Leq,D		1341								9.9			46.4
xxxx xxxx xxxx xxxx	Leq,D		450								5.2			28.4
Receiver E-2 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 60.4	dB(A)	Ld 7-19	dB(A)	Leq,N 61.1	dB(A)	Le 19-22	dB(A)	CNEL 67.5	dB(A)	Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	395.12	-62.9	5.2	-23.1	-2.1		0.0	2.9	0.0	0.0	24.4
18-1855 A/B	Leq,D	98.8		416.24	-63.4	5.5	-21.7	-1.3		0.0	2.2	0.0	0.0	20.2
18-1856 A/B	Leq,D	98.8		409.54	-63.2	5.5	-20.8	-1.2		0.0	1.9	0.0	0.0	20.9
18-1857 A/B	Leq,D	98.8		422.71	-63.5	5.6	-21.7	-1.3		0.0	0.2	0.0	0.0	18.0
18-1858 A/B	Leq,D	98.8		427.25	-63.6	5.4	-21.0	-1.3		0.0	0.3	0.0	0.0	18.6
18-PK 1802 Air Compressor Package	Leq,D	103.1		406.52	-63.2	5.7	-5.7	-0.9		0.0	0.0	0.0	0.0	39.0
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	554.77	-65.9	5.5	-14.0	-2.8	-0.37	0.0	0.0	-2.7	0.0	28.8
Air Compressor C 1	Leq,D	110.0	5	601.19	-66.6	5.7	-22.5	-1.4		0.0	5.1	0.0	0.0	30.4
Air Compressor Pump	Leq,D	100.3		491.19	-64.8	5.5	-21.7	-2.5		0.0	0.1	0.0	0.0	16.8
Blower F 401	Leq,D	113.0		598.06	-66.5	5.5	-18.6	-0.7	-0.06	0.0	0.0	0.0	0.0	32.6
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	410.98	-63.3	5.4	-20.2	-0.9	-0.58	0.0	0.9	0.0	0.0	20.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Boiler Feed Water Pump A	Leq,D	97.1	3	402.98	-63.1	5.4	-20.8	-1.3		0.0	0.0	0.0	0.0	17.4
Boiler Feed Water Pump B	Leq,D	97.1	3	403.70	-63.1	5.4	-20.8	-1.3		0.0	0.0	0.0	0.0	17.4
C370 A Motor	Leq,D	103.6	3	480.17	-64.6	5.1	-19.3	-1.4		0.0	0.1	0.0	0.0	23.4
C370 B Motor	Leq,D	108.6	3	469.88	-64.4	5.1	-19.9	-1.4		0.0	0.0	0.0	0.0	27.9
C370A	Leq,D	103.8	5	479.14	-64.6	5.1	-19.3	-1.4		0.0	0.0	0.0	0.0	23.7
C370B	Leq,D	103.8	5	468.82	-64.4	5.1	-19.3	-1.4		0.0	0.0	0.0	0.0	23.9
C-270 A	Leq,D	106.3	6	403.63	-63.1	5.0	-20.4	-1.2	-1.14	0.0	0.1	0.0	0.0	25.6
C-270 B	Leq,D	106.3	6	408.01	-63.2	5.1	-20.3	-1.2	-1.10	0.0	0.1	0.0	0.0	25.6
C-270 C	Leq,D	106.3	6	412.28	-63.3	5.1	-20.5	-1.3	-1.04	0.0	0.4	0.0	0.0	25.6
C-301 Compressor	Leq,D	106.8	3	378.08	-62.5	5.0	-21.2	-1.2	-0.25	0.0	0.1	0.0	0.0	26.6
C-301 Motor	Leq,D	106.8	4	381.44	-62.6	5.0	-22.4	-2.0	-0.29	0.0	0.0	0.0	0.0	24.5
C-351 Compressor	Leq,D	106.8	4	383.82	-62.7	5.0	-20.7	-1.2	-0.88	0.0	0.0	0.0	0.0	26.4
C-351 Motor	Leq,D	106.8	5	386.22	-62.7	4.8	-21.5	-1.9	-0.94	0.0	0.0	0.0	0.0	24.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	569.81	-66.1	5.6	-13.6	-1.1	-0.41	0.0	0.0	-33.5	0.0	25.6
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	622.04	-66.9	5.4	-23.1	-1.6	-0.58	-0.2	0.0	0.0	0.0	17.8
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	617.57	-66.8	5.4	-22.5	-1.8	-0.68	0.0	0.0	0.0	0.0	14.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	628.97	-67.0	5.4	-20.5	-1.2	-0.63	2.1	0.0	0.0	0.0	24.8
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	631.95	-67.0	5.4	-24.0	-1.9	-0.38	-1.6	0.0	0.0	0.0	21.1
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	619.77	-66.8	5.4	-23.9	-1.8	-0.56	-1.5	0.0	0.0	0.0	14.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	641.27	-67.1	5.4	-23.9	-2.3	-0.17	-7.8	0.0	0.0	0.0	4.5
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	548.89	-65.8	5.3	-23.9	-2.0		-0.3	0.1	0.0	0.0	11.2
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	561.25	-66.0	5.3	-24.3	-2.2		-7.8	0.0	0.0	0.0	2.8
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	524.42	-65.4	5.1	-20.0	-1.2		-0.4	0.0	0.0	0.0	18.7
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	542.33	-65.7	5.2	-23.9	-2.0		-7.8	3.9	0.0	0.0	10.3
Cooling Tower M 512	Leq,D	95.7		555.81	-65.9	5.6	-24.1	-2.3		0.0	0.0	0.0	0.0	9.0
Cooling Tower M 513	Leq,D	95.7		557.25	-65.9	5.6	-24.0	-2.2		0.0	0.0	0.0	0.0	9.2
Cooling Tower M 514	Leq,D	95.7		554.32	-65.9	5.6	-24.3	-2.3		0.0	0.0	0.0	0.0	8.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	406.33	-63.2	4.2	-15.8	-0.6		-1.5	0.0	0.0	0.0	18.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	406.60	-63.2	5.1	-13.1	-0.1		0.0	0.0	0.0	0.0	24.1
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	407.77	-63.2	5.2	-13.3	-0.1		0.0	0.0	0.0	0.0	21.6
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	407.90	-63.2	4.7	-11.7	-0.1		0.0	0.0	0.0	0.0	23.1
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	408.03	-63.2	5.1	-15.9	-0.1		0.0	0.0	0.0	0.0	19.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	409.20	-63.2	5.1	-16.1	-0.1		0.0	0.0	0.0	0.0	21.0
FD Motor	Leq,D	103.3	2	405.42	-63.2	5.3	-24.0	-2.7		0.0	2.9	0.0	0.0	21.6
Feed Compressor -B Motor	Leq,D	103.8	5	441.16	-63.9	5.0	-21.7	-2.1		0.0	0.0	0.0	0.0	21.2
Feed Compressor-A Compressor	Leq,D	104.0	5	453.69	-64.1	5.1	-19.6	-1.3		0.0	0.3	0.0	0.0	24.4
Feed Compressor-A Motor	Leq,D	103.8	6	454.79	-64.1	5.0	-21.1	-2.1		0.0	0.1	0.0	0.0	21.7
Feed Compressor-B Compressor	Leq,D	104.0	7	439.80	-63.9	5.1	-20.0	-1.3		0.0	0.1	0.0	0.0	24.1
H2S Compressor 18-C-271	Leq,D	105.3	6	600.60	-66.6	5.5	-20.8	-1.8	-0.44	0.0	0.0	0.0	0.0	21.3
Heater # 5-Heater	Leq,D	91.1	13	410.09	-63.2	5.4	-23.1	-1.1	-0.78	0.0	2.7	0.0	0.0	13.9
Heater # 5-Heater	Leq,D	91.1	13	414.14	-63.3	5.4	-23.7	-1.3	-0.91	0.0	2.0	0.0	0.0	12.3
Heater # 5-Heater	Leq,D	91.1	13	406.16	-63.2	5.4	-23.2	-1.1	-0.66	0.0	1.4	0.0	0.0	12.7
Hydro Heater H-402	Leq,D	98.1		582.67	-66.3	5.6	-23.9	-1.6		0.0	0.0	0.0	0.0	11.9
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	394.21	-62.9	5.2	-23.6	-0.1		0.0	0.6	0.0	0.0	6.3
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	394.38	-62.9	5.2	-23.5	-0.1		0.0	0.3	0.0	0.0	6.3
ID Fan-ID Fan - North	Leq,D	92.2	8	395.57	-62.9	5.2	-23.4	-0.1		0.0	0.6	0.0	0.0	11.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	393.10	-62.9	5.2	-23.7	-0.1		0.0	0.8	0.0	0.0	10.7
ID Fan-ID Fan - South	Leq,D	92.3	9	395.85	-62.9	5.2	-23.4	-0.1		0.0	0.3	0.0	0.0	11.4
ID Fan-ID Fan - South 2	Leq,D	91.4	7	393.20	-62.9	5.2	-23.7	-0.1		0.0	0.3	0.0	0.0	10.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	395.04	-62.9	4.9	-23.3	-0.1		0.0	0.7	0.0	0.0	13.2
Motor & Pump P 56A/B	Leq,D	93.7		589.38	-66.4	5.6	-23.8	-3.0	-0.14	0.0	0.0	0.0	0.0	5.9
Motor & Pump P 120/121	Leq,D	96.2	2	600.61	-66.6	5.7	-22.6	-1.9	-0.23	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 211/212	Leq,D	93.7		610.98	-66.7	5.7	-20.8	-2.3	-0.58	0.0	0.0	0.0	0.0	9.0
Motor & Pump P 215/214	Leq,D	94.6		610.79	-66.7	5.7	-22.1	-2.4	-0.59	0.0	0.0	0.0	0.0	8.4
Motor & Pump P 216	Leq,D	98.3		617.53	-66.8	5.6	-21.1	-2.3	-0.73	0.0	0.0	0.0	0.0	12.9
Motor & Pump P 217/218	Leq,D	93.7		611.02	-66.7	5.8	-21.7	-2.4	-0.58	0.0	0.0	0.0	0.0	8.0
Motor & Pump P 300	Leq,D	97.1	2	612.51	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.6
Motor & Pump P 301	Leq,D	102.1	2	612.51	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	16.6
Motor & Pump P 302	Leq,D	97.1	2	612.52	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.6
Motor & Pump P 303	Leq,D	97.1	2	612.63	-66.7	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	11.6
Motor & Pump P 305	Leq,D	97.5	2	612.64	-66.7	5.7	-23.1	-2.0	-0.22	0.0	0.0	0.0	0.0	11.2
Motor & Pump P 306	Leq,D	112.6	4	612.70	-66.7	5.6	-22.3	-2.0		0.0	0.2	0.0	0.0	27.4
Motor & Pump P 307	Leq,D	102.1	2	612.53	-66.7	5.7	-20.3	-1.7	-0.53	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 309	Leq,D	97.5	2	612.66	-66.7	5.7	-23.7	-2.1		0.0	0.0	0.0	0.0	10.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 312	Leq,D	101.5	2	613.06	-66.7	5.7	-20.9	-1.8	-0.53	0.0	0.0	0.0	0.0	17.3
Motor & Pump P 313	Leq,D	101.5	2	613.14	-66.7	5.7	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	18.1
Motor & Pump P 315	Leq,D	102.9	2	613.73	-66.8	5.7	-20.0	-1.7	-0.53	0.0	0.0	0.0	0.0	19.6
Motor & Pump P 316	Leq,D	102.9	2	613.85	-66.8	5.7	-20.6	-1.8	-0.53	0.0	0.0	0.0	0.0	18.9
Motor & Pump P 317	Leq,D	102.9	2	613.88	-66.8	5.7	-24.5	-2.4	-0.23	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 318	Leq,D	100.2	1	613.12	-66.7	5.8	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 319	Leq,D	100.2	1	613.04	-66.7	5.8	-20.1	-1.7	-0.53	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 327	Leq,D	111.2	3	613.61	-66.7	5.7	-24.3	-3.3		0.0	0.7	0.0	0.0	23.3
Motor & Pump P 328	Leq,D	109.9	5	612.54	-66.7	5.6	-22.9	-1.9		0.0	0.0	0.0	0.0	24.0
Motor & Pump P 329	Leq,D	110.2	5	612.59	-66.7	5.6	-23.3	-2.0		0.0	0.0	0.0	0.0	23.7
Motor & Pump P 451	Leq,D	93.7		582.27	-66.3	5.6	-20.9	-2.2		0.0	0.0	0.0	0.0	9.9
Motor & Pump P 453	Leq,D	93.7		580.91	-66.3	5.6	-21.0	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 454	Leq,D	93.7		583.70	-66.3	5.6	-20.9	-2.2		0.0	0.0	0.0	0.0	9.9
Motor & Pump P 457	Leq,D	93.7		581.12	-66.3	5.6	-21.0	-2.2		0.0	0.0	0.0	0.0	9.8
Motor & Pump P 458	Leq,D	93.7		581.13	-66.3	5.6	-20.9	-2.2		0.0	0.0	0.0	0.0	9.9
Motor & Pump P 459	Leq,D	93.7		583.58	-66.3	5.6	-20.9	-2.2		0.0	0.1	0.0	0.0	10.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		565.39	-66.0	5.6	-24.7	-3.6	-0.30	0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		565.27	-66.0	5.6	-24.7	-3.6	-0.30	0.0	0.0	0.0	0.0	7.2
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		555.03	-65.9	5.6	-24.3	-3.2	-0.21	0.0	0.0	0.0	0.0	7.5
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		555.02	-65.9	5.6	-24.2	-3.1	-0.20	0.0	0.0	0.0	0.0	7.6
Motor & Pump P 1601 A	Leq,D	96.3	2	537.11	-65.6	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	7.9
Motor & Pump P 1601 B	Leq,D	96.3	2	535.56	-65.6	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	7.9
Motor & Pump P 1602 A	Leq,D	96.3	2	534.41	-65.5	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	7.9
Motor & Pump P 1602 B	Leq,D	96.5	2	532.91	-65.5	5.5	-24.8	-3.5		0.0	0.0	0.0	0.0	8.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	556.05	-65.9	5.7	-24.8	-3.6	-0.17	0.0	0.0	0.0	0.0	7.8
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	555.80	-65.9	5.6	-22.7	-2.5	-0.17	0.0	0.0	0.0	0.0	11.0
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	555.65	-65.9	5.6	-21.8	-2.2	-0.17	0.0	0.0	0.0	0.0	12.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	564.61	-66.0	5.6	-24.9	-3.7	-0.25	0.0	0.0	0.0	0.0	7.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	564.50	-66.0	5.6	-22.5	-2.4	-0.30	0.0	0.0	0.0	0.0	11.1
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	548.60	-65.8	5.7	-21.7	-2.2	-0.02	0.0	0.0	0.0	0.0	12.3
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	550.90	-65.8	5.7	-21.6	-2.2	-0.07	0.0	0.0	0.0	0.0	12.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	554.93	-65.9	5.6	-21.6	-2.2	-0.16	0.0	0.0	0.0	0.0	12.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	553.14	-65.8	5.6	-21.6	-2.2	-0.12	0.0	0.0	0.0	0.0	12.2
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	575.47	-66.2	5.5	-22.5	-1.9		0.0	0.2	0.0	0.0	19.2
P-2 A/B	Leq,D	98.5		324.88	-61.2	5.6	-24.0	-1.3		0.0	0.0	0.0	0.0	17.6
P-50 A/B	Leq,D	98.1		339.12	-61.6	5.7	-24.0	-1.4	-0.11	0.0	0.0	0.0	0.0	16.7
P-51 A/B	Leq,D	98.1		341.64	-61.7	5.7	-24.0	-1.4	-0.11	0.0	0.0	0.0	0.0	16.7
P-060 A/B	Leq,D	98.1		333.24	-61.4	5.6	-23.6	-1.3	-0.11	0.0	0.1	0.0	0.0	17.4
P-63	Leq,D	98.5		353.87	-62.0	5.7	-24.0	-1.4		0.0	0.0	0.0	0.0	16.8
P-70 A/B	Leq,D	98.1		335.86	-61.5	5.6	-23.4	-1.2	-0.11	0.0	0.1	0.0	0.0	17.5
P-73 A/B	Leq,D	98.5		328.14	-61.3	5.6	-23.9	-1.3		0.0	0.0	0.0	0.0	17.7
P-251 A/B	Leq,D	98.2		447.60	-64.0	5.7	-20.3	-1.3	-0.80	0.0	0.1	0.0	0.0	17.5
P-252 A/B	Leq,D	98.2		440.09	-63.9	5.7	-20.7	-1.3	-0.54	0.0	0.1	0.0	0.0	17.6
P-253	Leq,D	98.2		432.75	-63.7	5.7	-20.8	-1.3	-0.51	0.0	0.1	0.0	0.0	17.7
P-254 A/B	Leq,D	98.2		436.83	-63.8	5.7	-20.5	-1.3	-0.52	0.0	0.0	0.0	0.0	17.8
P-255 A/B	Leq,D	98.2		440.08	-63.9	5.7	-20.5	-1.3	-0.60	0.0	0.0	0.0	0.0	17.7
P-255 A/B	Leq,D	98.2		454.43	-64.1	5.7	-20.3	-1.3	-0.98	0.0	0.1	0.0	0.0	17.3
P-256 A/B	Leq,D	98.2		444.31	-63.9	5.7	-20.4	-1.3	-0.72	0.0	0.0	0.0	0.0	17.6
P-259 A/B	Leq,D	98.2		450.91	-64.1	5.7	-20.3	-1.3	-0.89	0.0	0.1	0.0	0.0	17.4
P-260	Leq,D	99.1		458.69	-64.2	5.7	-9.8	-1.5	-0.55	0.0	0.0	0.0	0.0	28.8
P-261 A/B	Leq,D	98.0		481.67	-64.6	5.8	-6.2	-1.9	-0.58	0.0	0.0	0.0	0.0	30.5
P-262 A/B	Leq,D	99.1		466.92	-64.4	5.7	-9.1	-1.6	-0.56	0.0	0.0	0.0	0.0	29.2
P-263 A/B	Leq,D	99.4		462.91	-64.3	5.7	-9.7	-1.5	-0.55	0.0	0.0	0.0	0.0	29.1
P-270 A/B	Leq,D	98.5		396.27	-63.0	5.7	-21.3	-1.2	-0.48	0.0	0.0	0.0	0.0	18.3
P-271 A/B	Leq,D	98.2		427.58	-63.6	5.7	-20.7	-1.3	-0.27	0.0	0.0	0.0	0.0	18.1
P-272 A/B	Leq,D	98.2		432.06	-63.7	5.7	-20.6	-1.3	-0.39	0.0	0.0	0.0	0.0	17.9
P-273 A/B	Leq,D	98.5		399.57	-63.0	5.7	-21.3	-1.2	-0.49	0.0	0.0	0.0	0.0	18.2
P-275 A/B/C	Leq,D	98.2		421.83	-63.5	5.7	-20.8	-1.3	-0.23	0.0	0.1	0.0	0.0	18.2
P-305	Leq,D	99.3		413.42	-63.3	5.7	-21.8	-1.3	-1.33	0.0	0.1	0.0	0.0	17.3
P-306	Leq,D	100.8		405.35	-63.1	5.7	-23.0	-1.4	-0.93	0.0	0.0	0.0	0.0	18.0
P-309	Leq,D	99.3		411.40	-63.3	5.7	-21.9	-1.3	-1.28	0.0	0.1	0.0	0.0	17.3
P-328	Leq,D	100.8		400.67	-63.0	5.7	-23.4	-1.4	-0.78	0.0	0.0	0.0	0.0	17.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-329	Leq,D	100.8		402.87	-63.1	5.7	-23.3	-1.4	-0.83	0.0	0.0	0.0	0.0	17.9
P-353	Leq,D	98.5		403.81	-63.1	5.5	-20.8	-1.2	-1.61	0.0	0.0	0.0	0.0	17.2
P-358 A/B	Leq,D	99.4		373.99	-62.4	5.7	-23.1	-1.3	-1.05	0.0	0.0	0.0	0.0	17.1
P-359 A/B	Leq,D	99.4		376.40	-62.5	5.7	-22.1	-1.2	-0.89	0.0	1.6	0.0	0.0	20.0
P-360 A/B	Leq,D	99.4		381.33	-62.6	5.7	-23.0	-1.3	-1.07	0.0	0.0	0.0	0.0	17.1
P-361A	Leq,D	98.1		322.46	-61.2	5.4	-24.4	-1.4	-0.13	0.0	0.0	0.0	0.0	16.4
P-371 A/B	Leq,D	98.0		522.09	-65.3	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.1
P-373 A/B	Leq,D	98.0		502.85	-65.0	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-374 A/B	Leq,D	98.0		506.65	-65.1	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-375 A/B	Leq,D	98.0		515.27	-65.2	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-376	Leq,D	98.0		509.11	-65.1	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.2
P-376 A/B	Leq,D	98.0		498.74	-64.9	5.6	-19.9	-1.4		0.0	0.0	0.0	0.0	17.3
P-377	Leq,D	98.0		511.33	-65.2	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-1101 A	Leq,D	98.9		318.98	-61.1	5.4	-24.6	-1.4		0.0	0.0	0.0	0.0	17.1
P-1103	Leq,D	98.9		320.08	-61.1	5.4	-24.6	-1.4		0.0	0.0	0.0	0.0	17.1
P-1105 A/B/C	Leq,D	98.9		314.56	-60.9	5.3	-24.6	-1.4		0.0	0.0	0.0	0.0	17.3
P-1800	Leq,D	98.9		325.87	-61.3	5.6	-24.8	-1.5		0.0	2.4	0.0	0.0	19.4
P-1801	Leq,D	98.9		292.34	-60.3	5.6	-24.6	-1.3		0.0	0.8	0.0	0.0	19.0
P-1802	Leq,D	98.9		290.33	-60.3	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	18.3
P-1803	Leq,D	99.1		307.19	-60.7	5.6	-24.8	-1.4		0.0	0.0	0.0	0.0	17.7
P-1804	Leq,D	99.1		304.32	-60.7	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.1
P-1805	Leq,D	99.1		301.67	-60.6	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.1
P-1806	Leq,D	99.1		328.35	-61.3	5.6	-24.7	-1.5		0.0	0.0	0.0	0.0	17.2
P-1809 A	Leq,D	98.9		314.14	-60.9	5.6	-24.9	-1.5		0.0	2.2	0.0	0.0	19.5
P-1810 A/B/C	Leq,D	99.0		293.10	-60.3	5.6	-24.8	-1.4		0.0	0.0	0.0	0.0	18.1
P-1811 A/B	Leq,D	99.1		322.37	-61.2	5.6	-24.4	-1.4		0.0	0.0	0.0	0.0	17.7
P-1811 A/B	Leq,D	99.1		298.48	-60.5	5.6	-24.6	-1.4		0.0	0.0	0.0	0.0	18.2
P-1847 A/B	Leq,D	99.4		287.36	-60.2	5.6	-23.1	-1.1		0.0	4.8	0.0	0.0	25.4
P-1849 A/B	Leq,D	99.4		281.02	-60.0	5.6	-23.2	-1.1		0.0	4.9	0.0	0.0	25.6
P-1853	Leq,D	99.1		445.57	-64.0	5.7	-20.9	-1.3	-1.25	0.0	0.0	0.0	0.0	17.4
Piping Furnace Tanks	Leq,D	87.1	72	441.38	-63.9	4.4	-24.1	-6.6		0.0	0.1	0.0	0.0	-3.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	457.86	-64.2	4.6	-23.8	-6.0		0.0	0.1	0.0	0.0	9.1
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	483.15	-64.7	5.1	-24.9	-3.9		0.0	0.0	0.0	0.0	26.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	480.48	-64.6	5.1	-24.9	-9.8		0.0	0.1	0.0	0.0	20.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	211.48	-57.5	3.5	-8.2	-0.9		0.0	0.2	0.0	0.0	47.7
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	222.26	-57.9	3.3	-7.1	-0.9		0.0	0.4	0.0	0.0	48.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	252.31	-59.0	3.7	-18.6	-0.8		0.0	0.0	0.0	0.0	29.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	241.16	-58.6	3.6	-23.7	-1.0		0.0	0.5	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	259.23	-59.3	3.7	-23.8	-1.1		0.0	0.1	0.0	0.0	23.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	246.55	-58.8	3.6	-23.5	-1.0		0.0	0.3	0.0	0.0	24.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	259.88	-59.3	3.7	-23.6	-1.1		0.0	0.1	0.0	0.0	26.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	258.55	-59.2	3.7	-23.7	-1.1		0.0	0.3	0.0	0.0	26.1
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	233.03	-58.3	3.0	-10.5	-0.8		0.0	0.2	0.0	0.0	46.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	465.64	-64.4	3.6	-24.7	-3.6		0.0	0.0	0.0	0.0	-8.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	485.82	-64.7	5.1	-24.9	-3.9		0.0	0.0	0.0	0.0	28.1
Reformer-Burner Reformer East	Leq,D	97.3	269	427.56	-63.6	3.7	-18.4	-1.4		0.0	5.7	0.0	0.0	26.3
Reformer-Burner Reformer North	Leq,D	95.9	192	437.82	-63.8	3.7	-24.9	-2.5		0.0	0.1	0.0	0.0	8.4
Reformer-Burner Reformer South	Leq,D	95.8	191	418.76	-63.4	3.6	-22.0	-1.8		0.0	0.2	0.0	0.0	15.2
Reformer-Burner Reformer West	Leq,D	97.3	268	428.93	-63.6	3.5	-24.9	-2.5		0.0	0.0	0.0	0.0	12.8
RFG A from battery to process	Leq,D	99.4	87	451.54	-64.1	4.6	-23.8	-6.0		0.0	0.1	0.0	0.0	10.3
RFG A from battery to process w NC	Leq,D	115.2	42	480.30	-64.6	5.1	-25.0	-10.0		0.0	0.1	0.0	0.0	20.7
Stack Noise	Leq,D	108.4		390.96	-62.8	3.0	-5.6	-1.5		-5.9	0.3	0.0	0.0	36.0
Steam Turbine-Facade 01	Leq,D	99.6	29	492.30	-64.8	5.4	-24.3	-5.2		0.0	0.0	0.0	0.0	10.7
Steam Turbine-Facade 02	Leq,D	96.2	13	488.13	-64.8	5.4	-23.1	-3.8		0.0	0.0	0.0	0.0	10.0
Steam Turbine-Facade 03	Leq,D	99.6	29	491.89	-64.8	5.4	-24.7	-6.0		0.0	0.0	0.0	0.0	9.4
Steam Turbine-Facade 04	Leq,D	96.2	13	496.10	-64.9	5.4	-24.5	-5.6		0.0	0.6	0.0	0.0	7.2
Steam Turbine-Roof 01	Leq,D	99.7	30	492.06	-64.8	5.1	-22.9	-3.7		0.0	0.0	0.0	0.0	13.4
Tank Farm Pump 1	Leq,D	99.0	3	293.80	-60.4	5.3	-23.8	-1.7		0.0	0.1	0.0	0.0	18.5
Tank Farm Pump 2	Leq,D	99.0	3	272.84	-59.7	5.2	-24.5	-1.8		0.0	1.0	0.0	0.0	19.2
Tank Farm Pump 3	Leq,D	99.0	3	267.05	-59.5	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.3
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	718.93	-68.1	5.2	-15.7	-2.5	-0.24	0.0	0.0	-11.8	0.0	19.2
XF-1502 Splitter Area 1	Leq,D	104.5		553.34	-65.9	4.2	-18.7	-1.8	-0.08	-2.6	0.0	0.0	0.0	19.7
XF-1502 Splitter Area 2	Leq,D	104.5		553.56	-65.9	4.2	-18.5	-1.8	-0.06	-2.6	0.0	0.0	0.0	19.9
XF-1504 Splitter Area 1	Leq,D	104.5		548.94	-65.8	4.2	-18.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	19.8
XF-1504 Splitter Area 2	Leq,D	104.5		549.16	-65.8	4.2	-18.5	-1.8	-0.02	-2.6	0.0	0.0	0.0	20.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 251, 250, 271, 270	Leq,D	101.1	128	425.38	-63.6	4.0	-14.6	-0.6		-1.5	0.0	0.0	0.0	24.8	
XF 260, 261A, 261 B	Leq,D	99.9	97	474.18	-64.5	4.2	-7.5	-1.2	0.00	-2.4	0.0	0.0	0.0	28.5	
XF 304, XF 321	Leq,D	110.5	56	618.60	-66.8	4.4	-16.5	-0.9	-0.04	-1.4	0.0	0.0	0.0	29.2	
XF 313, XF 314	Leq,D	113.0	18	619.23	-66.8	4.7	-17.7	-1.3		-2.4	0.0	0.0	0.0	29.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	618.53	-66.8	4.4	-15.8	-1.1	-0.05	-1.5	0.0	0.0	0.0	32.4	
XF 353A/B	Leq,D	95.4	35	372.42	-62.4	3.8	-14.9	-0.6	-0.01	-1.6	0.0	0.0	0.0	19.7	
XF 353A/B	Leq,D	95.4	35	372.16	-62.4	3.8	-15.4	-0.6	0.00	-1.5	0.0	0.0	0.0	19.3	
XF 354A/B	Leq,D	95.4	35	409.45	-63.2	4.0	-15.2	-0.6	0.00	-1.5	0.0	0.0	0.0	18.8	
XF 503	Leq,D	113.0	21	602.67	-66.6	4.7	-23.6	-2.8	-0.32	-2.6	0.0	0.0	0.0	21.8	
XF - 1601	Leq,D	96.6		535.16	-65.6	3.3	-17.0	-0.8		-1.0	0.0	0.0	0.0	15.5	
XF - 1602	Leq,D	96.6		529.25	-65.5	3.2	-17.1	-0.8		-1.0	0.0	0.0	0.0	15.4	
XF Module 1510	Leq,D	108.3		559.60	-65.9	4.4	-24.1	-2.6	-0.09	-2.8	0.0	0.0	0.0	17.1	
XF Module 1519	Leq,D	109.0		559.27	-65.9	4.4	-18.7	-1.8	-0.22	-2.6	0.0	0.0	0.0	24.1	
xxxx xxxx xxxx xxxx	Leq,D		228								8.6			31.5	
xxxx xxxx xxxx xxxx	Leq,D		520								5.6			59.0	
xxxx xxxx xxxx xxxx	Leq,D		1341								9.8			48.3	
xxxx xxxx xxxx xxxx	Leq,D		450								18.1			28.0	
Receiver E-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 56.8 dB(A)	Ld 7-19 dB(A)	Leq,N 57.5 dB(A)	Le 19-22 dB(A)	CNEL 63.9 dB(A)	Lmax day hr dB(A)	Ld 7-19							
ID Fan Motor	Leq,D	104.4	2	395.74	-62.9	5.2	-24.3	-2.6		0.0	1.9	0.0	0.0	21.6	
18-1855 A/B	Leq,D	98.8		404.04	-63.1	5.5	-21.3	-1.2		0.0	0.0	0.0	0.0	18.7	
18-1856 A/B	Leq,D	98.8		397.10	-63.0	5.5	-21.4	-1.2		0.0	0.0	0.0	0.0	18.7	
18-1857 A/B	Leq,D	98.8		410.74	-63.3	5.5	-21.2	-1.3		0.0	0.0	0.0	0.0	18.6	
18-1858 A/B	Leq,D	98.8		415.41	-63.4	5.4	-21.7	-1.3		0.0	0.0	0.0	0.0	17.8	
18-PK 1802 Air Compressor Package	Leq,D	103.1		392.03	-62.9	5.7	-19.0	-0.6		0.0	0.0	0.0	0.0	26.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	539.24	-65.6	5.5	-19.6	-1.3	-0.14	0.0	0.0	-2.7	0.0	25.1	
Air Compressor C 1	Leq,D	110.0	5	606.76	-66.7	5.7	-22.2	-1.4		0.0	7.3	0.0	0.0	32.9	
Air Compressor Pump	Leq,D	100.3		479.86	-64.6	5.5	-23.2	-3.0		0.0	0.0	0.0	0.0	15.0	
Blower F 401	Leq,D	113.0		592.32	-66.4	5.5	-18.9	-0.7		0.0	0.0	0.0	0.0	32.4	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	378.16	-62.5	5.3	-20.9	-0.8	-0.40	0.0	0.2	0.0	0.0	19.3	
Boiler Feed Water Pump A	Leq,D	97.1	3	394.08	-62.9	5.4	-17.2	-1.2		0.0	0.1	0.0	0.0	21.3	
Boiler Feed Water Pump B	Leq,D	97.1	3	394.30	-62.9	5.4	-17.2	-1.2		0.0	0.1	0.0	0.0	21.4	
C370 A Motor	Leq,D	103.6	3	474.26	-64.5	5.1	-18.0	-1.3		0.0	0.1	0.0	0.0	25.0	
C370 B Motor	Leq,D	108.6	3	463.75	-64.3	5.1	-19.4	-1.3		0.0	0.0	0.0	0.0	28.6	
C370A	Leq,D	103.8	5	473.77	-64.5	5.1	-16.3	-1.3		0.0	0.0	0.0	0.0	26.9	
C370B	Leq,D	103.8	5	463.25	-64.3	5.1	-16.3	-1.2		0.0	0.0	0.0	0.0	27.0	
C-270 A	Leq,D	106.3	6	379.83	-62.6	5.0	-21.8	-1.3	-1.06	0.0	0.1	0.0	0.0	24.6	
C-270 B	Leq,D	106.3	6	384.49	-62.7	5.0	-21.4	-1.3	-1.10	0.0	0.1	0.0	0.0	24.9	
C-270 C	Leq,D	106.3	6	389.03	-62.8	5.0	-21.3	-1.3	-1.08	0.0	0.3	0.0	0.0	25.1	
C-301 Compressor	Leq,D	106.8	3	356.68	-62.0	4.9	-22.3	-1.3	-0.35	0.0	0.0	0.0	0.0	25.7	
C-301 Motor	Leq,D	106.8	4	360.27	-62.1	4.9	-23.3	-2.3	-0.42	0.0	0.0	0.0	0.0	23.6	
C-351 Compressor	Leq,D	106.8	4	359.73	-62.1	4.9	-21.7	-1.3	-0.85	0.0	0.0	0.0	0.0	25.8	
C-351 Motor	Leq,D	106.8	5	361.48	-62.2	4.7	-22.5	-2.0	-1.00	0.0	0.0	0.0	0.0	23.8	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	554.62	-65.9	5.6	-17.1	-0.7	-0.25	0.0	0.0	-33.5	0.0	22.8	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	620.63	-66.8	5.4	-22.1	-1.5	-0.58	-0.7	0.0	0.0	0.0	18.4	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	616.66	-66.8	5.4	-19.9	-1.4	-0.72	0.0	0.0	0.0	0.0	17.1	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	628.26	-67.0	5.4	-23.4	-1.7	-0.34	-0.2	0.0	0.0	0.0	19.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	630.42	-67.0	5.4	-19.5	-1.1	-0.72	0.3	0.0	0.0	0.0	28.1	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	618.60	-66.8	5.4	-18.5	-1.1	-0.71	0.5	0.0	0.0	0.0	22.6	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	640.19	-67.1	5.4	-23.6	-2.1	-0.53	-7.8	0.0	0.0	0.0	4.6	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	547.51	-65.8	5.3	-22.5	-1.6		-0.8	0.3	0.0	0.0	12.8	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	559.92	-66.0	5.3	-23.2	-1.8		-7.8	0.0	0.0	0.0	4.4	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	522.78	-65.4	5.1	-18.4	-1.1		-0.7	0.0	0.0	0.0	20.1	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	540.79	-65.7	5.2	-23.5	-1.9		-7.8	3.7	0.0	0.0	10.7	
Cooling Tower M 512	Leq,D	95.7		553.75	-65.9	5.6	-20.5	-1.9		0.0	0.0	0.0	0.0	13.0	
Cooling Tower M 513	Leq,D	95.7		555.19	-65.9	5.6	-20.4	-1.9		0.0	0.0	0.0	0.0	13.0	
Cooling Tower M 514	Leq,D	95.7		552.24	-65.8	5.6	-20.5	-1.9		0.0	0.0	0.0	0.0	13.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	401.54	-63.1	4.1	-15.8	-0.6		-1.5	0.0	0.0	0.0	19.0	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	408.38	-63.2	5.1	-9.3	-0.1		0.0	0.0	0.0	0.0	27.9	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	409.87	-63.2	5.2	-15.1	-0.1		0.0	0.0	0.0	0.0	19.8	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	409.68	-63.2	4.7	-6.5	-0.2		0.0	0.0	0.0	0.0	28.3	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	409.49	-63.2	5.1	-7.5	-0.1		0.0	0.0	0.0	0.0	27.4	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	410.97	-63.3	5.1	-15.3	-0.1		0.0	0.0	0.0	0.0	21.8	
FD Motor	Leq,D	103.3	2	407.21	-63.2	5.3	-23.4	-2.5		0.0	3.2	0.0	0.0	22.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor -B Motor	Leq,D	103.8	5	432.97	-63.7	5.0	-21.1	-2.0		0.0	0.0	0.0	0.0	21.9
Feed Compressor-A Compressor	Leq,D	104.0	5	446.56	-64.0	5.1	-16.6	-1.2		0.0	0.1	0.0	0.0	27.4
Feed Compressor-A Motor	Leq,D	103.8	6	446.96	-64.0	5.0	-20.7	-2.0		0.0	0.1	0.0	0.0	22.2
Feed Compressor-B Compressor	Leq,D	104.0	7	432.41	-63.7	5.1	-17.5	-1.2		0.0	0.0	0.0	0.0	26.7
H2S Compressor 18-C-271	Leq,D	105.3	6	602.64	-66.6	5.5	-23.8	-2.5	-0.22	0.0	0.0	0.0	0.0	17.7
Heater # 5-Heater	Leq,D	91.1	13	377.80	-62.5	5.3	-23.3	-1.1	-0.60	0.0	2.1	0.0	0.0	13.9
Heater # 5-Heater	Leq,D	91.1	13	382.22	-62.6	5.3	-23.6	-1.2	-0.71	0.0	1.8	0.0	0.0	13.1
Heater # 5-Heater	Leq,D	91.1	13	373.51	-62.4	5.3	-23.3	-1.1	-0.41	0.0	1.4	0.0	0.0	13.6
Hydro Heater H-402	Leq,D	98.1		580.75	-66.3	5.6	-23.5	-1.5		0.0	0.0	0.0	0.0	12.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	394.53	-62.9	5.3	-23.2	-0.1		0.0	0.3	0.0	0.0	6.3
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	394.34	-62.9	5.2	-22.9	-0.1		0.0	0.4	0.0	0.0	7.1
ID Fan-ID Fan - North	Leq,D	92.2	8	395.96	-62.9	5.2	-23.1	-0.1		0.0	0.3	0.0	0.0	11.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	393.35	-62.9	5.2	-23.3	-0.1		0.0	0.3	0.0	0.0	10.6
ID Fan-ID Fan - South	Leq,D	92.3	9	395.75	-62.9	5.2	-22.7	-0.1		0.0	0.5	0.0	0.0	12.3
ID Fan-ID Fan - South 2	Leq,D	91.4	7	393.23	-62.9	5.2	-23.0	-0.1		0.0	0.5	0.0	0.0	11.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	395.15	-62.9	4.9	-22.6	-0.1		0.0	0.5	0.0	0.0	13.7
Motor & Pump P 56A/B	Leq,D	93.7		589.13	-66.4	5.6	-22.4	-2.5	-0.14	0.0	0.0	0.0	0.0	7.8
Motor & Pump P 120/121	Leq,D	96.2	2	604.90	-66.6	5.7	-9.7	-1.9	-0.53	0.0	0.0	0.0	0.0	23.1
Motor & Pump P 211/212	Leq,D	93.7		608.27	-66.7	5.7	-20.2	-2.2	-0.57	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 215/214	Leq,D	94.6		608.59	-66.7	5.7	-20.2	-2.2	-0.58	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 216	Leq,D	98.3		614.91	-66.8	5.6	-20.1	-2.3	-0.72	0.0	0.0	0.0	0.0	14.1
Motor & Pump P 217/218	Leq,D	93.7		608.51	-66.7	5.8	-20.3	-2.3	-0.58	0.0	0.0	0.0	0.0	9.6
Motor & Pump P 300	Leq,D	97.1	2	616.96	-66.8	5.7	-15.5	-1.8	-0.53	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 301	Leq,D	102.1	2	616.79	-66.8	5.7	-9.5	-2.0	-0.53	0.0	0.0	0.0	0.0	29.0
Motor & Pump P 302	Leq,D	97.1	2	617.14	-66.8	5.7	-9.1	-2.0	-0.53	0.0	0.0	0.0	0.0	24.4
Motor & Pump P 303	Leq,D	97.1	2	617.40	-66.8	5.7	-9.1	-2.0	-0.50	0.0	0.0	0.0	0.0	24.4
Motor & Pump P 305	Leq,D	97.5	2	617.56	-66.8	5.7	-9.2	-2.0	-0.22	0.0	0.0	0.0	0.0	25.0
Motor & Pump P 306	Leq,D	112.6	4	618.51	-66.8	5.6	-22.0	-1.9		0.0	0.2	0.0	0.0	27.7
Motor & Pump P 307	Leq,D	102.1	2	616.33	-66.8	5.7	-21.0	-1.8	-0.53	0.0	0.0	0.0	0.0	17.7
Motor & Pump P 309	Leq,D	97.5	2	617.72	-66.8	5.7	-22.3	-1.9	-0.23	0.0	0.0	0.0	0.0	12.0
Motor & Pump P 312	Leq,D	101.5	2	614.69	-66.8	5.7	-24.0	-2.2	-0.37	0.0	0.0	0.0	0.0	13.9
Motor & Pump P 313	Leq,D	101.5	2	614.59	-66.8	5.7	-23.1	-2.0	-0.37	0.0	0.0	0.0	0.0	15.0
Motor & Pump P 315	Leq,D	102.9	2	614.54	-66.8	5.7	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	15.0
Motor & Pump P 316	Leq,D	102.9	2	614.46	-66.8	5.7	-24.7	-2.5		0.0	0.0	0.0	0.0	14.6
Motor & Pump P 317	Leq,D	102.9	2	614.29	-66.8	5.7	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	15.0
Motor & Pump P 318	Leq,D	100.2	1	614.13	-66.8	5.8	-24.3	-2.3	-0.23	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 319	Leq,D	100.2	1	614.20	-66.8	5.8	-23.2	-2.0	-0.39	0.0	0.0	0.0	0.0	13.7
Motor & Pump P 327	Leq,D	111.2	3	620.19	-66.8	5.7	-23.9	-3.2		0.0	0.4	0.0	0.0	23.4
Motor & Pump P 328	Leq,D	109.9	5	617.77	-66.8	5.6	-21.8	-1.8	-0.18	0.0	0.0	0.0	0.0	24.9
Motor & Pump P 329	Leq,D	110.2	5	618.10	-66.8	5.6	-23.2	-2.0		0.0	0.0	0.0	0.0	23.7
Motor & Pump P 451	Leq,D	93.7		579.62	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4
Motor & Pump P 453	Leq,D	93.7		577.03	-66.2	5.6	-18.2	-2.1		0.0	0.0	0.0	0.0	12.7
Motor & Pump P 454	Leq,D	93.7		581.10	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4
Motor & Pump P 457	Leq,D	93.7		577.08	-66.2	5.6	-18.2	-2.1		0.0	0.0	0.0	0.0	12.7
Motor & Pump P 458	Leq,D	93.7		578.47	-66.2	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.5
Motor & Pump P 459	Leq,D	93.7		581.09	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		565.72	-66.0	5.6	-24.8	-3.7		0.0	0.0	0.0	0.0	7.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		565.79	-66.0	5.6	-24.6	-3.5	-0.30	0.0	0.0	0.0	0.0	7.3
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		559.16	-65.9	5.6	-23.2	-2.6	-0.20	0.0	9.0	0.0	0.0	18.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		559.28	-65.9	5.6	-24.1	-3.1	-0.21	0.0	10.2	0.0	0.0	17.9
Motor & Pump P 1601 A	Leq,D	96.3	2	537.47	-65.6	5.5	-24.7	-3.5		0.0	0.0	0.0	0.0	8.0
Motor & Pump P 1601 B	Leq,D	96.3	2	535.92	-65.6	5.5	-24.7	-3.5		0.0	0.0	0.0	0.0	8.0
Motor & Pump P 1602 A	Leq,D	96.3	2	534.74	-65.6	5.5	-24.7	-3.5		0.0	0.0	0.0	0.0	8.0
Motor & Pump P 1602 B	Leq,D	96.5	2	533.24	-65.5	5.5	-24.7	-3.5		0.0	0.3	0.0	0.0	8.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	556.43	-65.9	5.7	-24.7	-3.5	-0.17	0.0	0.0	0.0	0.0	8.0
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	556.72	-65.9	5.6	-24.8	-3.7	-0.24	0.0	0.7	0.0	0.0	8.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	556.84	-65.9	5.6	-24.6	-3.4	-0.17	0.0	0.0	0.0	0.0	8.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	565.28	-66.0	5.6	-24.6	-3.5	-0.30	0.0	0.0	0.0	0.0	7.8
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	565.36	-66.0	5.6	-24.0	-3.1	-0.29	0.0	0.0	0.0	0.0	8.9
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	550.35	-65.8	5.7	-24.7	-3.5	-0.02	0.0	0.0	0.0	0.0	7.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	552.65	-65.8	5.7	-24.7	-3.5	-0.07	0.0	0.0	0.0	0.0	7.8
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	556.66	-65.9	5.6	-24.7	-3.6	-0.16	0.0	0.0	0.0	0.0	7.6
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	554.88	-65.9	5.6	-24.7	-3.5	-0.12	0.0	0.0	0.0	0.0	7.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	581.29	-66.3	5.5	-20.0	-1.6		0.0	0.1	0.0	0.0	21.8
P-2 A/B	Leq,D	98.5		288.55	-60.2	5.6	-24.0	-1.2		0.0	0.0	0.0	0.0	18.7
P-50 A/B	Leq,D	98.1		309.22	-60.8	5.6	-24.4	-1.3	-0.10	0.0	0.0	0.0	0.0	17.1
P-51 A/B	Leq,D	98.1		311.17	-60.9	5.6	-24.4	-1.3	-0.10	0.0	0.0	0.0	0.0	17.1
P-060 A/B	Leq,D	98.1		304.82	-60.7	5.6	-22.1	-1.0	-0.09	0.0	0.1	0.0	0.0	19.8
P-63	Leq,D	98.5		319.38	-61.1	5.6	-24.3	-1.4		0.0	0.0	0.0	0.0	17.4
P-70 A/B	Leq,D	98.1		306.77	-60.7	5.6	-22.8	-1.1	-0.09	0.0	0.1	0.0	0.0	19.1
P-73 A/B	Leq,D	98.5		292.26	-60.3	5.6	-24.0	-1.2		0.0	0.1	0.0	0.0	18.7
P-251 A/B	Leq,D	98.2		429.20	-63.6	5.7	-22.2	-1.4	-0.76	0.0	0.0	0.0	0.0	16.0
P-252 A/B	Leq,D	98.2		422.89	-63.5	5.7	-21.8	-1.3	-0.67	0.0	0.0	0.0	0.0	16.6
P-253	Leq,D	98.2		415.21	-63.4	5.7	-21.8	-1.3	-0.49	0.0	0.0	0.0	0.0	17.0
P-254 A/B	Leq,D	98.2		417.92	-63.4	5.7	-22.2	-1.3	-0.53	0.0	0.0	0.0	0.0	16.5
P-255 A/B	Leq,D	98.2		421.33	-63.5	5.7	-22.1	-1.4	-0.57	0.0	0.0	0.0	0.0	16.4
P-255 A/B	Leq,D	98.2		436.36	-63.8	5.7	-21.9	-1.4	-0.94	0.0	0.0	0.0	0.0	15.9
P-256 A/B	Leq,D	98.2		425.76	-63.6	5.7	-22.2	-1.4	-0.68	0.0	0.0	0.0	0.0	16.0
P-259 A/B	Leq,D	98.2		432.67	-63.7	5.7	-22.1	-1.4	-0.85	0.0	0.0	0.0	0.0	15.9
P-260	Leq,D	99.1		442.31	-63.9	5.7	-21.6	-1.4	-0.85	0.0	0.0	0.0	0.0	17.1
P-261 A/B	Leq,D	98.0		466.18	-64.4	5.7	-20.8	-1.4	-0.91	0.0	0.0	0.0	0.0	16.3
P-262 A/B	Leq,D	99.1		450.88	-64.1	5.7	-21.4	-1.4	-0.86	0.0	0.0	0.0	0.0	17.1
P-263 A/B	Leq,D	99.4		446.74	-64.0	5.7	-21.5	-1.4	-0.84	0.0	0.0	0.0	0.0	17.4
P-270 A/B	Leq,D	98.5		375.46	-62.5	5.7	-22.9	-1.3	-0.68	0.0	0.0	0.0	0.0	16.8
P-271 A/B	Leq,D	98.2		408.21	-63.2	5.7	-22.0	-1.3	-0.49	0.0	0.0	0.0	0.0	16.9
P-272 A/B	Leq,D	98.2		412.92	-63.3	5.7	-21.9	-1.3	-0.51	0.0	0.0	0.0	0.0	16.8
P-273 A/B	Leq,D	98.5		378.94	-62.6	5.7	-22.8	-1.3	-0.70	0.0	0.0	0.0	0.0	16.8
P-275 A/B/C	Leq,D	98.2		403.83	-63.1	5.7	-22.3	-1.3	-0.22	0.0	0.0	0.0	0.0	16.9
P-305	Leq,D	99.3		384.44	-62.7	5.7	-23.3	-1.4	-0.97	0.0	0.0	0.0	0.0	16.6
P-306	Leq,D	100.8		375.67	-62.5	5.7	-22.5	-1.3	-1.32	0.0	0.0	0.0	0.0	18.9
P-309	Leq,D	99.3		382.26	-62.6	5.7	-23.4	-1.4	-0.93	0.0	0.0	0.0	0.0	16.6
P-328	Leq,D	100.8		370.56	-62.4	5.7	-22.9	-1.3	-1.18	0.0	0.0	0.0	0.0	18.8
P-329	Leq,D	100.8		372.98	-62.4	5.7	-22.6	-1.3	-1.25	0.0	0.0	0.0	0.0	19.0
P-353	Leq,D	98.5		376.34	-62.5	5.4	-21.9	-1.2	-1.49	0.0	0.0	0.0	0.0	16.9
P-358 A/B	Leq,D	99.4		348.28	-61.8	5.7	-22.3	-1.2	-0.97	0.0	0.0	0.0	0.0	18.8
P-359 A/B	Leq,D	99.4		350.05	-61.9	5.7	-23.2	-1.3	-0.97	0.0	2.1	0.0	0.0	19.8
P-360 A/B	Leq,D	99.4		353.76	-62.0	5.7	-23.6	-1.4	-0.99	0.0	0.2	0.0	0.0	17.4
P-361A	Leq,D	98.1		297.28	-60.5	5.3	-24.2	-1.3	-0.11	0.0	0.0	0.0	0.0	17.4
P-371 A/B	Leq,D	98.0		517.50	-65.3	5.6	-17.5	-1.5		0.0	0.0	0.0	0.0	19.4
P-373 A/B	Leq,D	98.0		498.17	-64.9	5.6	-17.6	-1.4		0.0	0.0	0.0	0.0	19.6
P-374 A/B	Leq,D	98.0		502.01	-65.0	5.6	-17.6	-1.4		0.0	0.0	0.0	0.0	19.5
P-375 A/B	Leq,D	98.0		510.74	-65.2	5.6	-17.5	-1.5		0.0	0.0	0.0	0.0	19.4
P-376	Leq,D	98.0		504.50	-65.0	5.6	-17.6	-1.5		0.0	0.0	0.0	0.0	19.5
P-376 A/B	Leq,D	98.0		494.02	-64.9	5.6	-17.7	-1.4		0.0	0.0	0.0	0.0	19.6
P-377	Leq,D	98.0		506.75	-65.1	5.6	-17.6	-1.5		0.0	0.0	0.0	0.0	19.5
P-1101 A	Leq,D	98.9		286.08	-60.1	5.3	-24.3	-1.3		0.0	0.0	0.0	0.0	18.5
P-1103	Leq,D	98.9		287.33	-60.2	5.3	-24.4	-1.3		0.0	0.0	0.0	0.0	18.3
P-1105 A/B/C	Leq,D	98.9		281.15	-60.0	5.3	-24.4	-1.3		0.0	0.2	0.0	0.0	18.7
P-1800	Leq,D	98.9		284.68	-60.1	5.6	-24.8	-1.3		0.0	2.4	0.0	0.0	20.7
P-1801	Leq,D	98.9		246.16	-58.8	5.5	-24.6	-1.1		0.0	1.6	0.0	0.0	21.5
P-1802	Leq,D	98.9		244.39	-58.8	5.5	-24.6	-1.1		0.0	2.1	0.0	0.0	22.0
P-1803	Leq,D	99.1		283.02	-60.0	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	18.7
P-1804	Leq,D	99.1		276.46	-59.8	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	19.0
P-1805	Leq,D	99.1		273.53	-59.7	5.6	-24.6	-1.3		0.0	0.3	0.0	0.0	19.3
P-1806	Leq,D	99.1		305.98	-60.7	5.6	-24.3	-1.3		0.0	0.0	0.0	0.0	18.4
P-1809 A	Leq,D	98.9		272.21	-59.7	5.6	-24.8	-1.3		0.0	1.9	0.0	0.0	20.5
P-1810 A/B/C	Leq,D	99.0		266.70	-59.5	5.6	-24.6	-1.3		0.0	0.0	0.0	0.0	19.1
P-1811 A/B	Leq,D	99.1		299.50	-60.5	5.6	-24.4	-1.3		0.0	0.0	0.0	0.0	18.4
P-1811 A/B	Leq,D	99.1		269.97	-59.6	5.6	-22.6	-0.9		0.0	0.0	0.0	0.0	21.5
P-1847 A/B	Leq,D	99.4		276.59	-59.8	5.6	-18.1	-0.8		0.0	0.0	0.0	0.0	26.2
P-1849 A/B	Leq,D	99.4		269.97	-59.6	5.6	-18.2	-0.8		0.0	0.0	0.0	0.0	26.4
P-1853	Leq,D	99.1		421.14	-63.5	5.7	-21.7	-1.3	-1.34	0.0	0.2	0.0	0.0	17.2
Piping Furnace Tanks	Leq,D	87.1	72	439.82	-63.9	4.4	-23.9	-6.0		0.0	0.6	0.0	0.0	-1.8
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	454.43	-64.1	4.6	-23.4	-5.6		0.0	0.1	0.0	0.0	9.9
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	483.78	-64.7	5.1	-25.0	-3.9		0.0	0.0	0.0	0.0	26.1
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	480.83	-64.6	5.1	-25.0	-9.9		0.0	0.0	0.0	0.0	20.8
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	189.91	-56.6	3.5	-20.7	-0.7		0.0	0.0	0.0	0.0	36.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	207.35	-57.3	3.5	-15.2	-0.7		0.0	0.1	0.0	0.0	41.6
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	237.50	-58.5	3.6	-23.3	-1.0		0.0	0.0	0.0	0.0	24.9
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	216.50	-57.7	3.5	-24.3	-1.0		0.0	0.4	0.0	0.0	32.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	240.57	-58.6	3.6	-24.3	-1.1		0.0	0.0	0.0	0.0	23.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	232.47	-58.3	3.6	-24.2	-1.0		0.0	0.3	0.0	0.0	24.1	
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	243.48	-58.7	3.6	-24.3	-1.1		0.0	0.0	0.0	0.0	26.2	
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	238.00	-58.5	3.5	-24.3	-1.1		0.0	0.4	0.0	0.0	26.2	
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	213.41	-57.6	3.0	-18.6	-0.7		0.0	0.1	0.0	0.0	39.4	
PSA Pipe 3" Lagging	Leq,D	80.6	11	466.08	-64.4	3.6	-24.8	-3.7		0.0	0.0	0.0	0.0	-8.7	
PSA Skid Additional Piping w NC	Leq,D	116.6	57	485.96	-64.7	5.1	-25.0	-3.9		0.0	0.0	0.0	0.0	28.1	
Reformer-Burner Reformer East	Leq,D	97.3	269	428.77	-63.6	3.5	-24.8	-2.5		0.0	9.0	0.0	0.0	21.9	
Reformer-Burner Reformer North	Leq,D	95.9	192	438.09	-63.8	3.7	-24.8	-2.5		0.0	0.1	0.0	0.0	8.5	
Reformer-Burner Reformer South	Leq,D	95.8	191	418.96	-63.4	3.6	-22.5	-1.8		0.0	0.3	0.0	0.0	14.9	
Reformer-Burner Reformer West	Leq,D	97.3	268	428.14	-63.6	3.7	-20.1	-1.5		0.0	0.0	0.0	0.0	18.8	
RFG A from battery to process	Leq,D	99.4	87	447.12	-64.0	4.5	-23.5	-5.7		0.0	0.1	0.0	0.0	10.8	
RFG A from battery to process w NC	Leq,D	115.2	42	480.92	-64.6	5.1	-25.0	-10.0		0.0	0.1	0.0	0.0	20.8	
Stack Noise	Leq,D	108.4		391.13	-62.8	3.0	-9.0	-0.7		-5.2	0.0	0.0	0.0	33.7	
Steam Turbine-Facade 01	Leq,D	99.6	29	490.55	-64.8	5.4	-22.6	-3.4		0.0	1.5	0.0	0.0	15.7	
Steam Turbine-Facade 02	Leq,D	96.2	13	486.60	-64.7	5.4	-22.6	-3.4		0.0	0.6	0.0	0.0	11.5	
Steam Turbine-Facade 03	Leq,D	99.6	29	490.61	-64.8	5.4	-24.3	-5.2		0.0	1.9	0.0	0.0	12.6	
Steam Turbine-Facade 04	Leq,D	96.2	13	494.62	-64.9	5.4	-24.4	-5.4		0.0	3.5	0.0	0.0	10.4	
Steam Turbine-Roof 01	Leq,D	99.7	30	490.61	-64.8	5.1	-22.4	-3.3		0.0	1.5	0.0	0.0	15.9	
Tank Farm Pump 1	Leq,D	99.0	3	287.91	-60.2	5.3	-24.0	-1.7		0.0	0.0	0.0	0.0	18.3	
Tank Farm Pump 2	Leq,D	99.0	3	266.42	-59.5	5.2	-24.4	-1.8		0.0	1.2	0.0	0.0	19.8	
Tank Farm Pump 3	Leq,D	99.0	3	260.42	-59.3	5.2	-24.5	-1.8		0.0	2.6	0.0	0.0	21.3	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	712.94	-68.1	5.2	-14.0	-3.3	-0.03	0.0	0.0	-11.8	0.0	20.3	
XF-1502 Splitter Area 1	Leq,D	104.5		554.70	-65.9	4.2	-23.9	-2.4	-0.02	-2.7	0.0	0.0	0.0	13.8	
XF-1502 Splitter Area 2	Leq,D	104.5		554.50	-65.9	4.2	-24.5	-2.8	-0.01	-3.3	0.3	0.0	0.0	12.5	
XF-1504 Splitter Area 1	Leq,D	104.5		550.29	-65.8	4.2	-24.2	-2.6	-0.02	-2.9	0.0	0.0	0.0	13.2	
XF-1504 Splitter Area 2	Leq,D	104.5		550.10	-65.8	4.2	-24.6	-2.9	0.00	-3.4	0.0	0.0	0.0	12.0	
XF 251, 250, 271, 270	Leq,D	101.1	128	406.59	-63.2	3.9	-17.4	-0.6	0.00	-1.5	0.0	0.0	0.0	22.4	
XF 260, 261A, 261 B	Leq,D	99.9	97	457.41	-64.2	4.2	-16.7	-0.7	0.00	-1.4	0.0	0.0	0.0	21.0	
XF 304, XF 321	Leq,D	110.5	56	622.73	-66.9	4.4	-12.3	-1.1	-0.05	-1.8	0.0	0.0	0.0	32.7	
XF 313, XF 314	Leq,D	113.0	18	626.21	-66.9	4.7	-15.9	-1.4		-2.5	0.0	0.0	0.0	31.0	
XF 335-1, XF 335-2	Leq,D	113.4	54	623.88	-66.9	4.4	-14.5	-1.4	-0.05	-1.8	0.0	0.0	0.0	33.2	
XF 353A/B	Leq,D	95.4	35	345.11	-61.8	3.6	-17.2	-0.5	0.00	-1.5	0.0	0.0	0.0	18.0	
XF 353A/B	Leq,D	95.4	35	348.46	-61.8	3.6	-18.0	-0.5	0.00	-1.5	0.0	0.0	0.0	17.2	
XF 354A/B	Leq,D	95.4	35	381.29	-62.6	3.8	-16.9	-0.6	0.00	-1.4	0.0	0.0	0.0	17.7	
XF 503	Leq,D	113.0	21	601.74	-66.6	4.7	-19.4	-1.6	-0.39	-2.6	0.0	0.0	0.0	27.1	
XF - 1601	Leq,D	96.6		535.37	-65.6	3.3	-21.3	-0.9		-1.0	0.0	0.0	0.0	11.1	
XF - 1602	Leq,D	96.6		529.45	-65.5	3.2	-21.5	-0.9		-1.0	0.0	0.0	0.0	11.0	
XF Module 1510	Leq,D	108.3		560.14	-66.0	4.4	-24.1	-2.6	-0.09	-2.8	0.5	0.0	0.0	17.6	
XF Module 1519	Leq,D	109.0		560.38	-66.0	4.4	-24.5	-2.8	-0.05	-3.2	0.0	0.0	0.0	16.9	
xxxx xxxx xxxx xxxx	Leq,D		228								14.1			23.1	
xxxx xxxx xxxx xxxx	Leq,D		520								5.9			55.3	
xxxx xxxx xxxx xxxx	Leq,D		1341								12.9			48.6	
xxxx xxxx xxxx xxxx	Leq,D		450								18.4			21.4	
Receiver E-4 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 58.0 dB(A) Ld 7-19 dB(A) Leq,N 58.4 dB(A) Le 19-22 dB(A) CNEL 64.9 dB(A) Lmax day hr dB(A) Ld 7-19															
ID Fan Motor	Leq,D	104.4	2	404.84	-63.1	5.3	-24.6	-2.8		0.0	2.2	0.0	0.0	21.2	
18-1855 A/B	Leq,D	98.8		400.92	-63.1	5.5	-18.6	-1.2		0.0	0.0	0.0	0.0	21.5	
18-1856 A/B	Leq,D	98.8		393.89	-62.9	5.5	-19.1	-1.2		0.0	0.0	0.0	0.0	21.1	
18-1857 A/B	Leq,D	98.8		407.72	-63.2	5.5	-18.4	-1.2		0.0	0.0	0.0	0.0	21.5	
18-1858 A/B	Leq,D	98.8		412.44	-63.3	5.4	-18.1	-1.2		0.0	0.0	0.0	0.0	21.6	
18-PK 1802 Air Compressor Package	Leq,D	103.1		386.94	-62.7	5.7	-16.6	-0.6		0.0	0.0	0.0	0.0	28.9	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	530.68	-65.5	5.5	-16.5	-1.2	-0.12	0.0	0.1	-2.7	0.0	28.6	
Air Compressor C 1	Leq,D	110.0	5	617.56	-66.8	5.7	-22.8	-1.5		0.0	4.4	0.0	0.0	29.0	
Air Compressor Pump	Leq,D	100.3		476.31	-64.5	5.5	-22.4	-2.7		0.0	0.0	0.0	0.0	16.2	
Blower F 401	Leq,D	113.0		592.81	-66.5	5.5	-18.1	-0.7		0.0	0.0	0.0	0.0	33.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	354.45	-62.0	5.3	-20.6	-0.8	-0.22	0.0	0.0	0.0	0.0	20.3	
Boiler Feed Water Pump A	Leq,D	97.1	3	394.35	-62.9	5.4	-20.5	-1.3		0.0	0.2	0.0	0.0	18.0	
Boiler Feed Water Pump B	Leq,D	97.1	3	394.08	-62.9	5.4	-20.2	-1.2		0.0	0.2	0.0	0.0	18.4	
C370 A Motor	Leq,D	103.6	3	475.95	-64.5	5.1	-19.6	-1.4		0.0	0.1	0.0	0.0	23.3	
C370 B Motor	Leq,D	108.6	3	465.40	-64.3	5.1	-21.4	-1.5		0.0	0.0	0.0	0.0	26.4	
C370A	Leq,D	103.8	5	475.99	-64.5	5.1	-19.9	-1.4		0.0	0.0	0.0	0.0	23.1	
C370B	Leq,D	103.8	5	465.44	-64.3	5.1	-20.0	-1.4		0.0	0.0	0.0	0.0	23.2	
C-270 A	Leq,D	106.3	6	365.63	-62.3	4.9	-20.0	-1.2	-1.03	0.0	0.0	0.0	0.0	26.8	
C-270 B	Leq,D	106.3	6	370.47	-62.4	5.0	-19.5	-1.1	-1.08	0.0	0.0	0.0	0.0	27.2	
C-270 C	Leq,D	106.3	6	375.21	-62.5	5.0	-18.9	-1.1	-1.06	0.0	0.1	0.0	0.0	27.9	
C-301 Compressor	Leq,D	106.8	3	345.48	-61.8	4.9	-20.2	-1.1	-0.66	0.0	0.0	0.0	0.0	28.0	
C-301 Motor	Leq,D	106.8	4	349.21	-61.9	4.9	-21.5	-1.8	-0.79	0.0	0.0	0.0	0.0	25.7	
C-351 Compressor	Leq,D	106.8	4	345.67	-61.8	4.9	-19.5	-1.1	-0.81	0.0	0.0	0.0	0.0	28.6	
C-351 Motor	Leq,D	106.8	5	346.71	-61.8	4.6	-20.8	-1.7	-0.95	0.0	0.0	0.0	0.0	26.2	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	546.33	-65.7	5.6	-14.2	-0.7	-0.17	0.0	0.1	-33.5	0.0	26.1	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	624.91	-66.9	5.4	-20.9	-1.3	-0.67	-0.5	0.0	0.0	0.0	19.8
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	621.42	-66.9	5.4	-20.0	-1.5	-0.70	0.0	0.0	0.0	0.0	16.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	633.29	-67.0	5.4	-22.9	-1.6	-0.71	-2.0	0.0	0.0	0.0	17.6
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	634.34	-67.0	5.4	-21.2	-1.3	-0.72	2.6	0.0	0.0	0.0	28.4
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	623.10	-66.9	5.4	-24.6	-2.1	-0.11	2.9	1.7	0.0	0.0	19.9
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	644.61	-67.2	5.4	-23.6	-2.2	-0.57	-7.8	0.0	0.0	0.0	4.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	552.51	-65.8	5.3	-22.8	-1.7		-0.3	0.0	0.0	0.0	12.7
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	564.83	-66.0	5.3	-23.4	-1.9		-7.8	0.0	0.0	0.0	4.1
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	527.84	-65.4	5.1	-18.9	-1.1		-0.2	0.0	0.0	0.0	20.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	545.72	-65.7	5.2	-23.6	-1.9		-7.8	3.3	0.0	0.0	10.0
Cooling Tower M 512	Leq,D	95.7		558.05	-65.9	5.6	-20.9	-2.0		0.0	0.0	0.0	0.0	12.5
Cooling Tower M 513	Leq,D	95.7		559.47	-65.9	5.6	-20.8	-2.0		0.0	0.0	0.0	0.0	12.5
Cooling Tower M 514	Leq,D	95.7		556.54	-65.9	5.6	-20.9	-1.9		0.0	0.0	0.0	0.0	12.5
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	405.47	-63.2	4.2	-17.9	-0.6		-1.4	0.0	0.0	0.0	16.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	418.29	-63.4	5.2	-15.2	-0.1		0.0	0.1	0.0	0.0	21.8
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	420.04	-63.5	5.2	-17.3	-0.1		0.0	0.0	0.0	0.0	17.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	419.57	-63.4	4.7	-14.2	-0.1		0.0	0.0	0.0	0.0	20.4
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	419.09	-63.4	5.1	-14.9	-0.1		0.0	0.3	0.0	0.0	20.2
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	420.83	-63.5	5.2	-17.3	-0.1		0.0	0.1	0.0	0.0	19.6
FD Motor	Leq,D	103.3	2	417.15	-63.4	5.3	-24.5	-3.1		0.0	2.8	0.0	0.0	20.3
Feed Compressor -B Motor	Leq,D	103.8	5	433.16	-63.7	5.0	-22.1	-2.1		0.0	0.0	0.0	0.0	20.9
Feed Compressor-A Compressor	Leq,D	104.0	5	447.53	-64.0	5.1	-20.3	-1.3		0.0	0.1	0.0	0.0	23.6
Feed Compressor-A Motor	Leq,D	103.8	6	447.27	-64.0	5.0	-19.7	-1.9		0.0	0.1	0.0	0.0	23.2
Feed Compressor-B Compressor	Leq,D	104.0	7	433.37	-63.7	5.1	-20.6	-1.3		0.0	0.0	0.0	0.0	23.5
H2S Compressor 18-C-271	Leq,D	105.3	6	610.26	-66.7	5.5	-23.8	-2.5	-0.24	0.0	0.0	0.0	0.0	17.6
Heater # 5-Heater	Leq,D	91.1	13	354.68	-62.0	5.3	-22.9	-1.0	-0.36	0.0	2.0	0.0	0.0	15.0
Heater # 5-Heater	Leq,D	91.1	13	359.41	-62.1	5.3	-23.2	-1.1	-0.47	0.0	0.9	0.0	0.0	13.4
Heater # 5-Heater	Leq,D	91.1	13	350.07	-61.9	5.3	-22.9	-1.0	-0.33	0.0	1.4	0.0	0.0	14.6
Hydro Heater H-402	Leq,D	98.1		584.91	-66.3	5.6	-23.6	-1.5		0.0	0.0	0.0	0.0	12.2
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	403.39	-63.1	5.3	-23.2	-0.1		0.0	0.5	0.0	0.0	6.3
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	402.87	-63.1	5.3	-17.8	-0.1		0.0	0.0	0.0	0.0	11.6
ID Fan-ID Fan - North	Leq,D	92.2	8	404.85	-63.1	5.3	-23.2	-0.1		0.0	0.4	0.0	0.0	11.5
ID Fan-ID Fan - North 2	Leq,D	91.4	7	402.17	-63.1	5.3	-23.4	-0.1		0.0	0.5	0.0	0.0	10.6
ID Fan-ID Fan - South	Leq,D	92.3	9	404.19	-63.1	5.3	-15.2	-0.1		0.0	0.0	0.0	0.0	19.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	401.84	-63.1	5.3	-23.1	-0.1		0.0	0.0	0.0	0.0	10.3
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	403.83	-63.1	4.9	-20.0	-0.1		0.0	0.9	0.0	0.0	16.6
Motor & Pump P 56A/B	Leq,D	93.7		594.75	-66.5	5.6	-22.9	-2.7	-0.14	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 120/121	Leq,D	96.2	2	614.55	-66.8	5.7	-23.4	-2.1	-0.54	0.0	0.0	0.0	0.0	9.1
Motor & Pump P 211/212	Leq,D	93.7		611.45	-66.7	5.7	-21.9	-2.4	-0.58	0.0	0.0	0.0	0.0	7.7
Motor & Pump P 215/214	Leq,D	94.6		612.24	-66.7	5.7	-20.2	-2.3	-0.58	0.0	0.0	0.0	0.0	10.5
Motor & Pump P 216	Leq,D	98.3		618.10	-66.8	5.6	-21.8	-2.4	-0.72	0.0	0.0	0.0	0.0	12.2
Motor & Pump P 217/218	Leq,D	93.7		611.86	-66.7	5.8	-20.2	-2.3	-0.58	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 300	Leq,D	97.1	2	626.65	-66.9	5.7	-23.3	-2.1	-0.34	0.0	0.0	0.0	0.0	10.1
Motor & Pump P 301	Leq,D	102.1	2	626.33	-66.9	5.7	-23.3	-2.1	-0.33	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 302	Leq,D	97.1	2	626.99	-66.9	5.7	-23.3	-2.1	-0.34	0.0	0.0	0.0	0.0	10.1
Motor & Pump P 303	Leq,D	97.1	2	627.38	-66.9	5.7	-23.7	-2.2	-0.32	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 305	Leq,D	97.5	2	627.67	-66.9	5.7	-24.0	-2.3	-0.32	0.0	0.0	0.0	0.0	9.7
Motor & Pump P 306	Leq,D	112.6	4	629.43	-67.0	5.6	-22.7	-2.2		0.0	0.3	0.0	0.0	26.7
Motor & Pump P 307	Leq,D	102.1	2	625.44	-66.9	5.7	-24.6	-2.5	-0.20	0.0	0.0	0.0	0.0	13.6
Motor & Pump P 309	Leq,D	97.5	2	627.97	-67.0	5.7	-24.4	-2.4	-0.53	0.0	0.0	0.0	0.0	8.9
Motor & Pump P 312	Leq,D	101.5	2	621.82	-66.9	5.7	-21.8	-1.8	-0.54	0.0	0.0	0.0	0.0	16.2
Motor & Pump P 313	Leq,D	101.5	2	621.56	-66.9	5.7	-21.3	-1.8	-0.54	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 315	Leq,D	102.9	2	620.92	-66.9	5.7	-21.9	-1.9	-0.23	0.0	0.0	0.0	0.0	17.7
Motor & Pump P 316	Leq,D	102.9	2	620.66	-66.8	5.7	-21.7	-1.8	-0.23	0.0	0.0	0.0	0.0	18.0
Motor & Pump P 317	Leq,D	102.9	2	620.31	-66.8	5.7	-22.4	-1.9	-0.23	0.0	0.0	0.0	0.0	17.2
Motor & Pump P 318	Leq,D	100.2	1	620.69	-66.8	5.8	-20.1	-1.8	-0.52	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 319	Leq,D	100.2	1	620.90	-66.9	5.8	-24.8	-2.6		0.0	0.0	0.0	0.0	11.8
Motor & Pump P 327	Leq,D	111.2	3	631.80	-67.0	5.7	-24.3	-3.4		0.0	0.3	0.0	0.0	22.5
Motor & Pump P 328	Leq,D	109.9	5	628.18	-67.0	5.6	-24.5	-2.4	-0.52	0.0	0.0	0.0	0.0	21.1
Motor & Pump P 329	Leq,D	110.2	5	628.77	-67.0	5.6	-23.8	-2.2	-0.13	0.0	0.0	0.0	0.0	22.6
Motor & Pump P 451	Leq,D	93.7		583.12	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 453	Leq,D	93.7		579.39	-66.3	5.6	-23.7	-2.9		0.0	0.0	0.0	0.0	6.5
Motor & Pump P 454	Leq,D	93.7		584.64	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 457	Leq,D	93.7		579.30	-66.3	5.6	-23.8	-2.9		0.0	0.0	0.0	0.0	6.3
Motor & Pump P 458	Leq,D	93.7		581.97	-66.3	5.6	-20.4	-2.2		0.0	0.0	0.0	0.0	10.3

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Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		584.72	-66.3	5.6	-20.5	-2.2		0.0	0.0	0.0	0.0	10.3
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		572.12	-66.1	5.6	-24.8	-3.8		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		572.35	-66.1	5.6	-24.8	-3.8		0.0	0.0	0.0	0.0	7.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		569.11	-66.1	5.6	-24.6	-3.5	-0.18	0.0	1.1	0.0	0.0	7.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		569.34	-66.1	5.6	-24.8	-3.7	-0.21	0.0	0.0	0.0	0.0	6.3
Motor & Pump P 1601 A	Leq,D	96.3	2	544.19	-65.7	5.5	-23.7	-2.8		0.0	0.0	0.0	0.0	9.5
Motor & Pump P 1601 B	Leq,D	96.3	2	542.65	-65.7	5.5	-23.8	-2.8		0.0	0.0	0.0	0.0	9.5
Motor & Pump P 1602 A	Leq,D	96.3	2	541.47	-65.7	5.5	-23.8	-2.8		0.0	0.0	0.0	0.0	9.5
Motor & Pump P 1602 B	Leq,D	96.5	2	539.98	-65.6	5.5	-23.8	-2.9		0.0	0.0	0.0	0.0	9.7
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	562.97	-66.0	5.7	-22.7	-2.5	-0.17	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	563.74	-66.0	5.6	-23.4	-2.7	-0.18	0.0	0.0	0.0	0.0	9.9
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	564.11	-66.0	5.7	-24.8	-3.7	-0.24	0.0	0.0	0.0	0.0	7.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	572.00	-66.1	5.6	-22.6	-2.5	-0.30	0.0	0.0	0.0	0.0	10.8
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	572.25	-66.1	5.6	-23.2	-2.7	-0.30	0.0	0.0	0.0	0.0	10.0
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	558.21	-65.9	5.7	-24.7	-3.6	-0.02	0.0	0.0	0.0	0.0	7.7
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	560.48	-66.0	5.7	-24.7	-3.6	-0.07	0.0	0.0	0.0	0.0	7.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	564.44	-66.0	5.6	-24.7	-3.6	-0.17	0.0	0.0	0.0	0.0	7.5
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	562.67	-66.0	5.7	-24.7	-3.6	-0.12	0.0	0.0	0.0	0.0	7.5
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	592.55	-66.4	5.5	-20.6	-1.7		0.0	0.1	0.0	0.0	21.0
P-2 A/B	Leq,D	98.5		263.08	-59.4	5.6	-24.1	-1.2		0.0	0.0	0.0	0.0	19.4
P-50 A/B	Leq,D	98.1		290.34	-60.3	5.6	-24.4	-1.3	-0.10	0.0	0.0	0.0	0.0	17.7
P-51 A/B	Leq,D	98.1		291.61	-60.3	5.6	-23.2	-1.1	-0.09	0.0	0.0	0.0	0.0	19.0
P-060 A/B	Leq,D	98.1		287.69	-60.2	5.6	-22.6	-1.0	-0.09	0.0	0.0	0.0	0.0	19.8
P-63	Leq,D	98.5		295.12	-60.4	5.6	-23.6	-1.2		0.0	0.0	0.0	0.0	19.0
P-70 A/B	Leq,D	98.1		288.85	-60.2	5.6	-24.3	-1.2	-0.10	0.0	0.0	0.0	0.0	17.9
P-73 A/B	Leq,D	98.5		267.19	-59.5	5.6	-24.1	-1.2		0.0	0.0	0.0	0.0	19.3
P-251 A/B	Leq,D	98.2		419.52	-63.4	5.7	-18.9	-1.2	-1.41	0.0	2.0	0.0	0.0	20.9
P-252 A/B	Leq,D	98.2		414.52	-63.3	5.7	-19.4	-1.2	-0.66	0.0	1.4	0.0	0.0	20.6
P-253	Leq,D	98.2		406.66	-63.2	5.7	-20.0	-1.2	-0.48	0.0	1.5	0.0	0.0	20.5
P-254 A/B	Leq,D	98.2		407.94	-63.2	5.7	-18.6	-1.2	-1.32	0.0	1.8	0.0	0.0	21.3
P-255 A/B	Leq,D	98.2		411.45	-63.3	5.7	-18.5	-1.2	-1.34	0.0	1.8	0.0	0.0	21.3
P-255 A/B	Leq,D	98.2		426.90	-63.6	5.7	-18.8	-1.2	-1.44	0.0	2.0	0.0	0.0	20.8
P-256 A/B	Leq,D	98.2		416.00	-63.4	5.7	-19.2	-1.2	-1.38	0.0	2.1	0.0	0.0	20.8
P-259 A/B	Leq,D	98.2		423.10	-63.5	5.7	-18.7	-1.2	-1.43	0.0	1.9	0.0	0.0	20.9
P-260	Leq,D	99.1		434.43	-63.8	5.7	-19.1	-1.3	-1.11	0.0	1.1	0.0	0.0	20.7
P-261 A/B	Leq,D	98.0		458.79	-64.2	5.7	-17.5	-1.3	-1.67	0.0	0.6	0.0	0.0	19.7
P-262 A/B	Leq,D	99.1		443.19	-63.9	5.7	-18.9	-1.3	-1.32	0.0	1.1	0.0	0.0	20.6
P-263 A/B	Leq,D	99.4		438.98	-63.8	5.7	-19.0	-1.3	-1.22	0.0	1.1	0.0	0.0	20.9
P-270 A/B	Leq,D	98.5		364.41	-62.2	5.7	-21.7	-1.2	-1.25	0.0	0.0	0.0	0.0	17.8
P-271 A/B	Leq,D	98.2		397.94	-63.0	5.7	-19.5	-1.2	-1.25	0.0	2.0	0.0	0.0	21.0
P-272 A/B	Leq,D	98.2		402.79	-63.1	5.7	-19.4	-1.2	-1.28	0.0	2.0	0.0	0.0	20.9
P-273 A/B	Leq,D	98.5		368.01	-62.3	5.7	-20.3	-1.1	-1.28	0.0	0.0	0.0	0.0	19.1
P-275 A/B/C	Leq,D	98.2		395.01	-62.9	5.7	-20.3	-1.2	-0.21	0.0	1.4	0.0	0.0	20.7
P-305	Leq,D	99.3		364.73	-62.2	5.7	-21.9	-1.2	-1.48	0.0	3.1	0.0	0.0	21.2
P-306	Leq,D	100.8		355.38	-62.0	5.7	-22.1	-1.2	-1.24	0.0	0.0	0.0	0.0	19.9
P-309	Leq,D	99.3		362.42	-62.2	5.7	-22.0	-1.2	-1.42	0.0	0.0	0.0	0.0	18.2
P-328	Leq,D	100.8		349.92	-61.9	5.7	-22.1	-1.2	-1.11	0.0	0.0	0.0	0.0	20.2
P-329	Leq,D	100.8		352.53	-61.9	5.7	-22.1	-1.2	-1.17	0.0	0.0	0.0	0.0	20.1
P-353	Leq,D	98.5		358.38	-62.1	5.4	-20.9	-1.1	-0.83	0.0	0.0	0.0	0.0	18.9
P-358 A/B	Leq,D	99.4		332.82	-61.4	5.6	-20.7	-1.0	-0.93	0.0	0.0	0.0	0.0	20.9
P-359 A/B	Leq,D	99.4		333.86	-61.5	5.6	-20.7	-1.1	-0.93	0.0	0.0	0.0	0.0	20.8
P-360 A/B	Leq,D	99.4		336.20	-61.5	5.6	-22.1	-1.2	-0.94	0.0	0.0	0.0	0.0	19.3
P-361A	Leq,D	98.1		283.87	-60.1	5.3	-22.3	-1.0	-0.10	0.0	0.0	0.0	0.0	19.9
P-371 A/B	Leq,D	98.0		519.85	-65.3	5.6	-19.6	-1.5		0.0	0.0	0.0	0.0	17.2
P-373 A/B	Leq,D	98.0		500.68	-65.0	5.6	-20.0	-1.5		0.0	0.0	0.0	0.0	17.2
P-374 A/B	Leq,D	98.0		504.52	-65.0	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-375 A/B	Leq,D	98.0		513.25	-65.2	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-376	Leq,D	98.0		506.99	-65.1	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	17.2
P-376 A/B	Leq,D	98.0		496.56	-64.9	5.6	-20.2	-1.4		0.0	0.0	0.0	0.0	17.1
P-377	Leq,D	98.0		509.26	-65.1	5.6	-19.8	-1.5		0.0	0.0	0.0	0.0	17.1
P-1101 A	Leq,D	98.9		264.62	-59.4	5.2	-23.6	-1.1		0.0	0.0	0.0	0.0	20.0
P-1103	Leq,D	98.9		265.99	-59.5	5.2	-23.5	-1.1		0.0	0.0	0.0	0.0	20.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1105 A/B/C	Leq,D	98.9		259.26	-59.3	5.2	-23.2	-1.0		0.0	0.0	0.0	0.0	20.6
P-1800	Leq,D	98.9		253.60	-59.1	5.5	-24.6	-1.2		0.0	4.2	0.0	0.0	23.8
P-1801	Leq,D	98.9		209.98	-57.4	5.4	-17.0	-0.6		0.0	1.8	0.0	0.0	31.1
P-1802	Leq,D	98.9		208.59	-57.4	5.4	-17.0	-0.6		0.0	2.9	0.0	0.0	32.4
P-1803	Leq,D	99.1		271.20	-59.7	5.6	-24.1	-1.2		0.0	2.0	0.0	0.0	21.7
P-1804	Leq,D	99.1		260.93	-59.3	5.5	-23.0	-1.0		0.0	0.0	0.0	0.0	21.4
P-1805	Leq,D	99.1		257.81	-59.2	5.5	-23.9	-1.1		0.0	0.2	0.0	0.0	20.7
P-1806	Leq,D	99.1		295.24	-60.4	5.6	-22.4	-1.1		0.0	1.5	0.0	0.0	22.2
P-1809 A	Leq,D	98.9		240.60	-58.6	5.5	-24.8	-1.2		0.0	3.2	0.0	0.0	23.0
P-1810 A/B/C	Leq,D	99.0		253.17	-59.1	5.5	-23.6	-1.1		0.0	0.0	0.0	0.0	20.7
P-1811 A/B	Leq,D	99.1		288.44	-60.2	5.6	-22.9	-1.1		0.0	1.6	0.0	0.0	22.0
P-1811 A/B	Leq,D	99.1		253.99	-59.1	5.5	-23.5	-1.0		0.0	0.0	0.0	0.0	21.1
P-1847 A/B	Leq,D	99.4		278.57	-59.9	5.6	-24.4	-1.2		0.0	0.0	0.0	0.0	19.4
P-1849 A/B	Leq,D	99.4		271.96	-59.7	5.6	-24.5	-1.2		0.0	0.0	0.0	0.0	19.6
P-1853	Leq,D	99.1		405.51	-63.2	5.7	-18.1	-1.2	-0.97	0.0	0.0	0.0	0.0	21.5
Piping Furnace Tanks	Leq,D	87.1	72	447.02	-64.0	4.4	-24.0	-6.3		0.0	0.3	0.0	0.0	-2.6
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	458.89	-64.2	4.6	-24.1	-6.4		0.0	0.1	0.0	0.0	8.4
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	491.22	-64.8	5.1	-25.0	-4.0		0.0	0.0	0.0	0.0	25.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	488.20	-64.8	5.1	-25.0	-10.2		0.0	0.1	0.0	0.0	20.4
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	186.00	-56.4	3.4	-14.3	-0.8		0.0	0.5	0.0	0.0	43.0
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	209.56	-57.4	3.4	-24.4	-1.0		0.0	0.8	0.0	0.0	32.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	237.44	-58.5	3.6	-24.3	-1.1		0.0	0.0	0.0	0.0	23.7
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	207.47	-57.3	3.4	-23.6	-0.9		0.0	4.6	0.0	0.0	37.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	236.55	-58.5	3.0	-24.3	-1.1		0.0	0.0	0.0	0.0	23.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	233.43	-58.4	3.5	-24.4	-1.1		0.0	0.5	0.0	0.0	23.9
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	241.48	-58.6	3.6	-24.0	-1.1		0.0	0.0	0.0	0.0	26.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	232.05	-58.3	3.4	-23.8	-1.0		0.0	0.5	0.0	0.0	26.9
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	210.07	-57.4	3.0	-14.1	-0.7		0.0	0.2	0.0	0.0	44.0
PSA Pipe 3" Lagging	Leq,D	80.6	11	473.80	-64.5	3.6	-24.5	-3.6		0.0	0.0	0.0	0.0	-8.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	494.27	-64.9	5.1	-25.0	-4.0		0.0	0.0	0.0	0.0	27.9
Reformer-Burner Reformer East	Leq,D	97.3	269	437.82	-63.8	3.6	-24.8	-2.5		0.0	0.2	0.0	0.0	12.9
Reformer-Burner Reformer North	Leq,D	95.9	192	446.10	-64.0	3.7	-24.8	-2.6		0.0	0.2	0.0	0.0	8.4
Reformer-Burner Reformer South	Leq,D	95.8	191	427.26	-63.6	3.7	-22.9	-1.9		0.0	0.3	0.0	0.0	14.3
Reformer-Burner Reformer West	Leq,D	97.3	268	435.42	-63.8	3.7	-20.1	-1.5		0.0	0.0	0.0	0.0	18.7
RFG A from battery to process	Leq,D	99.4	87	452.28	-64.1	4.6	-24.1	-6.5		0.0	0.0	0.0	0.0	9.3
RFG A from battery to process w NC	Leq,D	115.2	42	488.66	-64.8	5.1	-25.0	-10.0		0.0	0.1	0.0	0.0	20.7
Stack Noise	Leq,D	108.4		399.91	-63.0	3.0	-12.2	-0.5		-4.7	0.0	0.0	0.0	31.0
Steam Turbine-Facade 01	Leq,D	99.6	29	495.92	-64.9	5.4	-23.0	-3.7		0.0	1.6	0.0	0.0	15.0
Steam Turbine-Facade 02	Leq,D	96.2	13	492.21	-64.8	5.4	-23.0	-3.7		0.0	0.7	0.0	0.0	10.8
Steam Turbine-Facade 03	Leq,D	99.6	29	496.40	-64.9	5.4	-24.4	-5.5		0.0	2.9	0.0	0.0	13.1
Steam Turbine-Facade 04	Leq,D	96.2	13	500.17	-65.0	5.4	-24.5	-5.6		0.0	3.5	0.0	0.0	10.1
Steam Turbine-Roof 01	Leq,D	99.7	30	496.43	-64.9	5.1	-22.8	-3.6		0.0	1.6	0.0	0.0	15.1
Tank Farm Pump 1	Leq,D	99.0	3	294.03	-60.4	5.3	-23.2	-1.6		0.0	0.0	0.0	0.0	19.2
Tank Farm Pump 2	Leq,D	99.0	3	272.95	-59.7	5.2	-23.3	-1.5		0.0	0.0	0.0	0.0	19.7
Tank Farm Pump 3	Leq,D	99.0	3	267.04	-59.5	5.2	-23.4	-1.5		0.0	1.6	0.0	0.0	21.4
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	712.77	-68.1	5.2	-17.1	-1.4	-0.04	0.0	0.1	-11.8	0.0	19.4
XF-1502 Splitter Area 1	Leq,D	104.5		562.15	-66.0	4.2	-24.2	-2.6	-0.02	-2.9	0.0	0.0	0.0	13.1
XF-1502 Splitter Area 2	Leq,D	104.5		561.58	-66.0	4.2	-19.7	-1.8	-0.05	-2.6	0.0	0.0	0.0	18.6
XF-1504 Splitter Area 1	Leq,D	104.5		557.79	-65.9	4.2	-24.2	-2.6	-0.02	-2.9	0.0	0.0	0.0	13.1
XF-1504 Splitter Area 2	Leq,D	104.5		557.22	-65.9	4.2	-19.7	-1.8	-0.02	-2.6	0.0	0.0	0.0	18.7
XF 251, 250, 271, 270	Leq,D	101.1	128	397.05	-63.0	3.9	-13.8	-0.6	0.00	-1.5	0.5	0.0	0.0	26.5
XF 260, 261A, 261 B	Leq,D	99.9	97	449.28	-64.0	4.1	-13.0	-0.7	0.00	-1.5	0.2	0.0	0.0	24.9
XF 304, XF 321	Leq,D	110.5	56	632.10	-67.0	4.4	-21.2	-1.0	-0.02	-1.3	0.0	0.0	0.0	24.3
XF 313, XF 314	Leq,D	113.0	18	638.41	-67.1	4.7	-20.6	-1.4		-2.3	0.0	0.0	0.0	26.3
XF 335-1, XF 335-2	Leq,D	113.4	54	634.33	-67.0	4.4	-21.1	-1.4	-0.03	-1.4	0.0	0.0	0.0	26.9
XF 353A/B	Leq,D	95.4	35	328.01	-61.3	3.5	-14.5	-0.5	0.00	-1.5	0.0	0.0	0.0	21.1
XF 353A/B	Leq,D	95.4	35	335.32	-61.5	3.5	-15.2	-0.5	0.00	-1.5	0.0	0.0	0.0	20.2
XF 354A/B	Leq,D	95.4	35	362.49	-62.2	3.7	-14.3	-0.5	0.00	-1.5	0.0	0.0	0.0	20.6
XF 503	Leq,D	113.0	21	606.69	-66.7	4.8	-19.0	-1.6	-0.42	-2.6	0.0	0.0	0.0	27.5
XF - 1601	Leq,D	96.6		541.99	-65.7	3.3	-16.1	-0.8		-1.0	0.0	0.0	0.0	16.3
XF - 1602	Leq,D	96.6		536.12	-65.6	3.3	-16.1	-0.8		-1.0	0.0	0.0	0.0	16.4
XF Module 1510	Leq,D	108.3		566.78	-66.1	4.4	-19.8	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.2
XF Module 1519	Leq,D	109.0		567.56	-66.1	4.4	-19.8	-1.8	-0.22	-2.6	0.0	0.0	0.0	22.9
xxxx xxxx xxxx xxxx	Leq,D		228								8.2			20.8
xxxx xxxx xxxx xxxx	Leq,D		520								10.1			53.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	Leq,D		1341								11.8			55.0	
xxxx xxxx xxxx xxxx	Leq,D		450								8.6			24.9	
Receiver E-5 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 64.9 dB(A)		Ld 7-19	dB(A)	Leq,N 64.9 dB(A)		Le 19-22	dB(A)	CNEL 71.5 dB(A)		Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	426.36	-63.6	5.3	-24.6	-3.0		0.0	2.4	0.0	0.0	20.9	
18-1855 A/B	Leq,D	98.8		406.89	-63.2	5.5	-17.8	-1.1		0.0	0.3	0.0	0.0	22.6	
18-1856 A/B	Leq,D	98.8		399.95	-63.0	5.5	-18.8	-1.2		0.0	0.0	0.0	0.0	21.3	
18-1857 A/B	Leq,D	98.8		413.61	-63.3	5.5	-17.6	-1.1		0.0	0.6	0.0	0.0	22.9	
18-1858 A/B	Leq,D	98.8		418.25	-63.4	5.4	-17.3	-1.1		0.0	0.2	0.0	0.0	22.5	
18-PK 1802 Air Compressor Package	Leq,D	103.1		390.72	-62.8	5.7	-17.4	-0.6		0.0	0.0	0.0	0.0	28.0	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	526.64	-65.4	5.5	-9.3	-2.8	-0.50	0.0	0.0	-2.7	0.0	33.8	
Air Compressor C 1	Leq,D	110.0	5	637.42	-67.1	5.7	-22.7	-1.6	-0.35	0.0	5.7	0.0	0.0	29.7	
Air Compressor Pump	Leq,D	100.3		479.78	-64.6	5.5	-23.0	-2.9		0.0	0.0	0.0	0.0	15.4	
Blower F 401	Leq,D	113.0		599.60	-66.5	5.5	-18.2	-0.7		0.0	0.0	0.0	0.0	33.1	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	333.12	-61.4	5.2	-11.7	-0.7		0.0	0.1	0.0	0.0	30.1	
Boiler Feed Water Pump A	Leq,D	97.1	3	404.95	-63.1	5.4	-19.8	-1.2		0.0	0.0	0.0	0.0	18.4	
Boiler Feed Water Pump B	Leq,D	97.1	3	404.06	-63.1	5.4	-19.7	-1.2		0.0	0.0	0.0	0.0	18.5	
C370 A Motor	Leq,D	103.6	3	486.34	-64.7	5.1	-19.5	-1.4		0.0	0.3	0.0	0.0	23.4	
C370 B Motor	Leq,D	108.6	3	475.95	-64.5	5.1	-21.6	-1.5		0.0	0.0	0.0	0.0	26.1	
C370A	Leq,D	103.8	5	487.06	-64.7	5.2	-21.1	-1.5		0.0	0.0	0.0	0.0	21.6	
C370B	Leq,D	103.8	5	476.69	-64.6	5.1	-18.0	-1.3		0.0	0.0	0.0	0.0	25.1	
C-270 A	Leq,D	106.3	6	357.66	-62.1	4.9	-16.7	-1.1	-1.06	0.0	0.0	0.0	0.0	30.3	
C-270 B	Leq,D	106.3	6	362.60	-62.2	4.9	-16.2	-1.1	-1.11	0.0	0.0	0.0	0.0	30.6	
C-270 C	Leq,D	106.3	6	367.44	-62.3	4.9	-15.4	-1.1	-1.08	0.0	0.1	0.0	0.0	31.5	
C-301 Compressor	Leq,D	106.8	3	342.48	-61.7	4.9	-11.5	-1.1	-0.90	0.0	0.0	0.0	0.0	36.4	
C-301 Motor	Leq,D	106.8	4	346.25	-61.8	4.9	-12.6	-1.7	-1.09	0.0	0.0	0.0	0.0	34.6	
C-351 Compressor	Leq,D	106.8	4	338.68	-61.6	4.9	-11.8	-1.1	-0.83	0.0	0.0	0.0	0.0	36.3	
C-351 Motor	Leq,D	106.8	5	338.68	-61.6	4.6	-16.7	-1.6	-0.93	0.0	0.0	0.0	0.0	30.6	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	542.28	-65.7	5.6	-8.7	-1.0	-0.55	0.0	0.0	-33.5	0.0	30.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	636.26	-67.1	5.4	-18.4	-1.2	-0.74	0.0	0.0	0.0	0.0	22.8	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	633.45	-67.0	5.4	-17.3	-1.3	-0.73	0.0	0.0	0.0	0.0	19.6	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	645.43	-67.2	5.4	-22.8	-1.6	-0.73	-3.9	0.0	0.0	0.0	15.7	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	645.24	-67.2	5.4	-18.1	-1.2	-0.74	4.6	0.0	0.0	0.0	33.4	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	634.78	-67.0	5.4	-21.0	-1.3	-0.73	4.6	2.7	0.0	0.0	26.3	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	655.90	-67.3	5.4	-22.2	-1.8	-0.72	-7.8	0.0	0.0	0.0	5.9	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	565.80	-66.0	5.4	-21.1	-1.5		0.2	0.0	0.0	0.0	14.8	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	577.82	-66.2	5.3	-21.9	-1.6		-7.8	0.0	0.0	0.0	5.7	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	541.59	-65.7	5.1	-16.3	-1.1		0.3	0.0	0.0	0.0	23.0	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	559.01	-65.9	5.2	-22.3	-1.7		-7.8	2.2	0.0	0.0	10.3	
Cooling Tower M 512	Leq,D	95.7		570.35	-66.1	5.6	-18.2	-1.9		0.0	0.0	0.0	0.0	15.1	
Cooling Tower M 513	Leq,D	95.7		571.72	-66.1	5.6	-18.1	-1.9		0.0	0.0	0.0	0.0	15.1	
Cooling Tower M 514	Leq,D	95.7		568.85	-66.1	5.6	-18.2	-1.9		0.0	0.0	0.0	0.0	15.1	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	420.59	-63.5	4.2	-16.1	-0.6		-1.4	0.0	0.0	0.0	18.5	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	440.48	-63.9	5.2	-13.7	-0.1		0.0	0.0	0.0	0.0	22.9	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	442.50	-63.9	5.2	-15.6	-0.1		0.0	0.1	0.0	0.0	18.8	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	441.68	-63.9	4.8	-13.7	-0.1		0.0	0.1	0.0	0.0	20.6	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	440.87	-63.9	5.2	-18.8	-0.1		0.0	0.1	0.0	0.0	15.7	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	442.89	-63.9	5.2	-16.3	-0.1		0.0	0.2	0.0	0.0	20.3	
FD Motor	Leq,D	103.3	2	439.40	-63.8	5.3	-22.5	-2.5		0.0	2.8	0.0	0.0	22.6	
Feed Compressor -B Motor	Leq,D	103.8	5	442.58	-63.9	5.0	-22.8	-2.4		0.0	0.0	0.0	0.0	19.7	
Feed Compressor-A Compressor	Leq,D	104.0	5	457.61	-64.2	5.2	-21.2	-1.4		0.0	0.2	0.0	0.0	22.6	
Feed Compressor-A Motor	Leq,D	103.8	6	456.49	-64.2	5.1	-18.9	-1.9		0.0	0.1	0.0	0.0	23.9	
Feed Compressor-B Compressor	Leq,D	104.0	7	443.78	-63.9	5.1	-20.0	-1.3		0.0	0.0	0.0	0.0	23.9	
H2S Compressor 18-C-271	Leq,D	105.3	6	626.12	-66.9	5.5	-17.7	-1.6	-0.46	0.0	0.0	0.0	0.0	24.1	
Heater # 5-Heater	Leq,D	91.1	13	334.20	-61.5	5.2	-19.4	-0.8		0.0	1.6	0.0	0.0	19.2	
Heater # 5-Heater	Leq,D	91.1	13	339.23	-61.6	5.2	-19.8	-0.8		0.0	0.4	0.0	0.0	17.5	
Heater # 5-Heater	Leq,D	91.1	13	329.30	-61.3	5.2	-19.2	-0.8		0.0	1.3	0.0	0.0	19.3	
Hydro Heater H-402	Leq,D	98.1		596.62	-66.5	5.6	-20.4	-1.2		0.0	0.0	0.0	0.0	15.7	
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	424.65	-63.6	5.3	-21.7	-0.1		0.0	0.1	0.0	0.0	7.0	
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	423.74	-63.5	5.3	-10.0	-0.1		0.0	0.0	0.0	0.0	19.0	
ID Fan-ID Fan - North	Leq,D	92.2	8	426.12	-63.6	5.3	-21.5	-0.1		0.0	0.2	0.0	0.0	12.5	
ID Fan-ID Fan - North 2	Leq,D	91.4	7	423.42	-63.5	5.3	-21.9	-0.1		0.0	0.1	0.0	0.0	11.3	
ID Fan-ID Fan - South	Leq,D	92.3	9	424.92	-63.6	5.3	-9.9	-0.1		0.0	0.0	0.0	0.0	24.1	
ID Fan-ID Fan - South 2	Leq,D	91.4	7	422.84	-63.5	5.3	-16.3	-0.1		0.0	0.0	0.0	0.0	16.8	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	424.87	-63.6	5.0	-13.0	-0.1		0.0	0.5	0.0	0.0	22.8
Motor & Pump P 56A/B	Leq,D	93.7		608.24	-66.7	5.6	-21.7	-2.5	-0.14	0.0	1.0	0.0	0.0	9.3
Motor & Pump P 120/121	Leq,D	96.2	2	632.96	-67.0	5.7	-23.3	-2.3	-0.24	0.0	0.0	0.0	0.0	9.0
Motor & Pump P 211/212	Leq,D	93.7		621.52	-66.9	5.7	-21.2	-2.5	-0.60	0.0	0.0	0.0	0.0	8.1
Motor & Pump P 215/214	Leq,D	94.6		622.91	-66.9	5.7	-15.1	-2.3	-0.60	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 216	Leq,D	98.3		628.11	-67.0	5.6	-21.4	-2.5	-0.75	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 217/218	Leq,D	93.7		622.16	-66.9	5.8	-15.0	-2.2	-0.60	0.0	0.0	0.0	0.0	14.7
Motor & Pump P 300	Leq,D	97.1	2	644.97	-67.2	5.7	-19.7	-1.8	-0.56	0.0	0.0	0.0	0.0	13.5
Motor & Pump P 301	Leq,D	102.1	2	644.47	-67.2	5.7	-19.7	-1.8	-0.56	0.0	0.0	0.0	0.0	18.5
Motor & Pump P 302	Leq,D	97.1	2	645.52	-67.2	5.7	-23.0	-2.2	-0.24	0.0	0.0	0.0	0.0	10.2
Motor & Pump P 303	Leq,D	97.1	2	646.07	-67.2	5.7	-22.8	-2.2	-0.24	0.0	0.0	0.0	0.0	10.3
Motor & Pump P 305	Leq,D	97.5	2	646.53	-67.2	5.7	-22.9	-2.2	-0.24	0.0	0.0	0.0	0.0	10.7
Motor & Pump P 306	Leq,D	112.6	4	649.30	-67.2	5.6	-23.5	-2.6	-0.47	0.0	0.3	0.0	0.0	24.8
Motor & Pump P 307	Leq,D	102.1	2	643.02	-67.2	5.7	-23.5	-2.3	-0.54	0.0	0.0	0.0	0.0	14.3
Motor & Pump P 309	Leq,D	97.5	2	646.99	-67.2	5.7	-22.9	-2.2	-0.24	0.0	0.0	0.0	0.0	10.7
Motor & Pump P 312	Leq,D	101.5	2	636.90	-67.1	5.7	-19.8	-1.8	-0.33	0.0	0.0	0.0	0.0	18.2
Motor & Pump P 313	Leq,D	101.5	2	636.43	-67.1	5.7	-20.4	-1.8	-0.24	0.0	0.0	0.0	0.0	17.7
Motor & Pump P 315	Leq,D	102.9	2	635.04	-67.0	5.7	-20.0	-1.8	-0.24	0.0	0.0	0.0	0.0	19.5
Motor & Pump P 316	Leq,D	102.9	2	634.55	-67.0	5.7	-20.9	-1.9	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 317	Leq,D	102.9	2	633.97	-67.0	5.7	-20.9	-1.9	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 318	Leq,D	100.2	1	635.05	-67.0	5.8	-20.1	-1.8	-0.24	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 319	Leq,D	100.2	1	635.43	-67.1	5.8	-20.1	-1.8	-0.24	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 327	Leq,D	111.2	3	652.51	-67.3	5.7	-24.1	-3.5		0.0	1.1	0.0	0.0	23.1
Motor & Pump P 328	Leq,D	109.9	5	647.40	-67.2	5.6	-22.9	-2.1	-0.48	0.0	0.0	0.0	0.0	22.8
Motor & Pump P 329	Leq,D	110.2	5	648.31	-67.2	5.6	-22.9	-2.2	-0.54	0.0	0.0	0.0	0.0	22.9
Motor & Pump P 451	Leq,D	93.7		593.99	-66.5	5.6	-15.4	-2.1		0.0	0.0	0.0	0.0	15.3
Motor & Pump P 453	Leq,D	93.7		588.85	-66.4	5.6	-22.7	-2.7		0.0	0.0	0.0	0.0	7.4
Motor & Pump P 454	Leq,D	93.7		595.53	-66.5	5.6	-15.4	-2.1		0.0	0.0	0.0	0.0	15.3
Motor & Pump P 457	Leq,D	93.7		588.56	-66.4	5.6	-22.6	-2.7		0.0	0.0	0.0	0.0	7.5
Motor & Pump P 458	Leq,D	93.7		592.86	-66.5	5.6	-15.4	-2.1		0.0	0.0	0.0	0.0	15.3
Motor & Pump P 459	Leq,D	93.7		595.74	-66.5	5.6	-15.4	-2.2		0.0	0.0	0.0	0.0	15.2
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		586.92	-66.4	5.6	-19.3	-2.1	-0.15	0.0	0.5	0.0	0.0	14.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		587.36	-66.4	5.6	-19.0	-2.1	-0.29	0.0	0.0	0.0	0.0	14.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		588.49	-66.4	5.7	-23.5	-3.0	-0.18	0.0	0.0	0.0	0.0	8.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		588.87	-66.4	5.7	-24.2	-3.5	-0.22	0.0	0.0	0.0	0.0	6.7
Motor & Pump P 1601 A	Leq,D	96.3	2	559.82	-66.0	5.5	-21.4	-2.2		0.0	0.0	0.0	0.0	12.3
Motor & Pump P 1601 B	Leq,D	96.3	2	558.33	-65.9	5.5	-21.6	-2.3		0.0	0.9	0.0	0.0	12.9
Motor & Pump P 1602 A	Leq,D	96.3	2	557.15	-65.9	5.5	-21.6	-2.3		0.0	0.9	0.0	0.0	12.9
Motor & Pump P 1602 B	Leq,D	96.5	2	555.71	-65.9	5.5	-21.7	-2.3		0.0	0.9	0.0	0.0	13.0
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	578.08	-66.2	5.7	-23.4	-3.2	-0.20	0.0	0.0	0.0	0.0	9.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	579.46	-66.3	5.7	-21.0	-2.2	-0.18	0.0	0.0	0.0	0.0	12.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	580.14	-66.3	5.7	-21.4	-2.3	-0.18	0.0	0.0	0.0	0.0	12.1
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	587.20	-66.4	5.6	-23.4	-3.2		0.0	0.0	0.0	0.0	9.4
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	587.68	-66.4	5.6	-19.1	-2.1	-0.31	0.0	0.0	0.0	0.0	14.5
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	575.08	-66.2	5.7	-22.3	-2.5	-0.02	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	577.28	-66.2	5.7	-22.3	-2.5	-0.08	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	581.12	-66.3	5.7	-22.5	-2.6	-0.18	0.0	0.0	0.0	0.0	10.4
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	579.40	-66.3	5.7	-22.2	-2.5	-0.13	0.0	0.0	0.0	0.0	10.8
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	613.29	-66.7	5.5	-21.6	-1.9		0.0	0.0	0.0	0.0	19.4
P-2 A/B	Leq,D	98.5		243.58	-58.7	5.5	-24.5	-1.1		0.0	7.8	0.0	0.0	27.4
P-50 A/B	Leq,D	98.1		279.10	-59.9	5.6	-23.2	-1.0	-0.08	0.0	0.6	0.0	0.0	20.0
P-51 A/B	Leq,D	98.1		279.29	-59.9	5.6	-23.3	-1.1	-0.09	0.0	0.6	0.0	0.0	19.9
P-060 A/B	Leq,D	98.1		279.15	-59.9	5.6	-24.2	-1.2	-0.09	0.0	0.0	0.0	0.0	18.3
P-63	Leq,D	98.5		275.58	-59.8	5.6	-23.6	-1.1		0.0	1.5	0.0	0.0	21.1
P-70 A/B	Leq,D	98.1		279.11	-59.9	5.6	-24.3	-1.2	-0.10	0.0	0.0	0.0	0.0	18.2
P-73 A/B	Leq,D	98.5		248.04	-58.9	5.5	-24.4	-1.1		0.0	12.8	0.0	0.0	32.4
P-251 A/B	Leq,D	98.2		416.11	-63.4	5.7	-6.5	-1.6	-2.49	0.0	0.0	0.0	0.0	30.0
P-252 A/B	Leq,D	98.2		413.04	-63.3	5.7	-17.9	-1.1	-1.72	0.0	0.0	0.0	0.0	19.8
P-253	Leq,D	98.2		405.14	-63.1	5.7	-18.2	-1.1	-1.68	0.0	0.0	0.0	0.0	19.8
P-254 A/B	Leq,D	98.2		404.44	-63.1	5.7	-6.9	-1.5	-2.24	0.0	0.0	0.0	0.0	30.2
P-255 A/B	Leq,D	98.2		407.98	-63.2	5.7	-6.8	-1.5	-2.32	0.0	0.0	0.0	0.0	30.1
P-255 A/B	Leq,D	98.2		423.58	-63.5	5.7	-6.3	-1.6	-2.65	0.0	0.0	0.0	0.0	29.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		412.58	-63.3	5.7	-6.6	-1.6	-2.42	0.0	0.0	0.0	0.0	30.0
P-259 A/B	Leq,D	98.2		419.73	-63.5	5.7	-6.4	-1.6	-2.57	0.0	0.0	0.0	0.0	29.9
P-260	Leq,D	99.1		433.06	-63.7	5.7	-17.2	-1.2	-1.82	0.0	0.0	0.0	0.0	20.9
P-261 A/B	Leq,D	98.0		457.50	-64.2	5.7	-15.8	-1.2	-1.90	0.0	0.0	0.0	0.0	20.6
P-262 A/B	Leq,D	99.1		441.86	-63.9	5.7	-16.8	-1.2	-1.85	0.0	0.0	0.0	0.0	21.1
P-263 A/B	Leq,D	99.4		437.66	-63.8	5.7	-17.0	-1.2	-1.84	0.0	0.0	0.0	0.0	21.2
P-270 A/B	Leq,D	98.5		360.89	-62.1	5.7	-17.8	-1.1	-1.73	0.0	0.0	0.0	0.0	21.4
P-271 A/B	Leq,D	98.2		394.35	-62.9	5.7	-7.2	-1.4	-2.02	0.0	0.0	0.0	0.0	30.3
P-272 A/B	Leq,D	98.2		399.25	-63.0	5.7	-7.1	-1.5	-2.13	0.0	0.0	0.0	0.0	30.2
P-273 A/B	Leq,D	98.5		364.50	-62.2	5.7	-16.6	-1.1	-1.80	0.0	0.0	0.0	0.0	22.5
P-275 A/B/C	Leq,D	98.2		393.51	-62.9	5.7	-18.6	-1.1	-1.59	0.0	0.0	0.0	0.0	19.7
P-305	Leq,D	99.3		348.91	-61.8	5.7	-20.5	-1.1	-1.17	0.0	2.5	0.0	0.0	22.9
P-306	Leq,D	100.8		339.07	-61.6	5.7	-21.0	-1.1	-1.10	0.0	2.3	0.0	0.0	24.0
P-309	Leq,D	99.3		346.50	-61.8	5.7	-20.5	-1.1	-1.16	0.0	2.5	0.0	0.0	22.9
P-328	Leq,D	100.8		333.30	-61.4	5.6	-21.5	-1.1	-1.04	0.0	2.3	0.0	0.0	23.7
P-329	Leq,D	100.8		336.09	-61.5	5.6	-21.1	-1.0	-1.06	0.0	2.3	0.0	0.0	24.0
P-353	Leq,D	98.5		345.34	-61.8	5.4	-18.9	-1.0	-1.05	0.0	0.0	0.0	0.0	21.2
P-358 A/B	Leq,D	99.4		324.38	-61.2	5.6	-23.0	-1.2	-0.61	0.0	2.4	0.0	0.0	21.5
P-359 A/B	Leq,D	99.4		324.35	-61.2	5.6	-23.6	-1.3	-0.90	0.0	0.3	0.0	0.0	18.4
P-360 A/B	Leq,D	99.4		324.61	-61.2	5.6	-23.5	-1.3	-0.60	0.0	0.0	0.0	0.0	18.5
P-361A	Leq,D	98.1		280.86	-60.0	5.3	-18.3	-0.8	-0.10	0.0	0.0	0.0	0.0	24.2
P-371 A/B	Leq,D	98.0		530.24	-65.5	5.6	-19.2	-1.5		0.0	0.0	0.0	0.0	17.4
P-373 A/B	Leq,D	98.0		511.63	-65.2	5.6	-20.3	-1.5		0.0	0.0	0.0	0.0	16.6
P-374 A/B	Leq,D	98.0		515.39	-65.2	5.6	-20.1	-1.5		0.0	0.0	0.0	0.0	16.7
P-375 A/B	Leq,D	98.0		523.95	-65.4	5.6	-20.1	-1.5		0.0	0.0	0.0	0.0	16.6
P-376	Leq,D	98.0		517.80	-65.3	5.6	-20.0	-1.5		0.0	0.0	0.0	0.0	16.8
P-376 A/B	Leq,D	98.0		507.62	-65.1	5.6	-20.5	-1.5		0.0	0.0	0.0	0.0	16.5
P-377	Leq,D	98.0		520.03	-65.3	5.6	-19.9	-1.5		0.0	0.0	0.0	0.0	16.8
P-1101 A	Leq,D	98.9		251.16	-59.0	5.2	-22.6	-1.0		0.0	0.0	0.0	0.0	21.5
P-1103	Leq,D	98.9		252.62	-59.0	5.2	-22.5	-1.0		0.0	0.0	0.0	0.0	21.5
P-1105 A/B/C	Leq,D	98.9		245.54	-58.8	5.2	-22.8	-1.0		0.0	0.0	0.0	0.0	21.5
P-1800	Leq,D	98.9		225.73	-58.1	5.5	-4.8	-1.1		0.0	1.2	0.0	0.0	41.6
P-1801	Leq,D	98.9		176.81	-55.9	5.3	-5.6	-0.8		0.0	1.9	0.0	0.0	43.8
P-1802	Leq,D	98.9		176.22	-55.9	5.3	-5.5	-0.8		0.0	1.9	0.0	0.0	43.9
P-1803	Leq,D	99.1		271.21	-59.7	5.6	-24.7	-1.3		0.0	2.9	0.0	0.0	21.9
P-1804	Leq,D	99.1		256.41	-59.2	5.5	-23.6	-1.0		0.0	0.7	0.0	0.0	21.5
P-1805	Leq,D	99.1		253.25	-59.1	5.5	-24.0	-1.1		0.0	0.3	0.0	0.0	20.9
P-1806	Leq,D	99.1		295.27	-60.4	5.6	-22.1	-1.0	-0.13	0.0	0.0	0.0	0.0	21.1
P-1809 A	Leq,D	98.9		212.79	-57.6	5.4	-24.7	-1.0		0.0	3.6	0.0	0.0	24.7
P-1810 A/B/C	Leq,D	99.0		252.05	-59.0	5.5	-24.7	-1.2		0.0	2.4	0.0	0.0	22.0
P-1811 A/B	Leq,D	99.1		288.42	-60.2	5.6	-23.3	-1.1	0.00	0.0	0.0	0.0	0.0	20.1
P-1811 A/B	Leq,D	99.1		249.35	-58.9	5.5	-24.0	-1.1		0.0	1.0	0.0	0.0	21.6
P-1847 A/B	Leq,D	99.4		296.25	-60.4	5.6	-17.8	-0.9		0.0	0.0	0.0	0.0	25.9
P-1849 A/B	Leq,D	99.4		290.04	-60.2	5.6	-18.0	-0.9		0.0	0.0	0.0	0.0	25.9
P-1853	Leq,D	99.1		394.21	-62.9	5.7	-19.5	-1.2	-0.82	0.0	0.0	0.0	0.0	20.4
Piping Furnace Tanks	Leq,D	87.1	72	464.46	-64.3	4.4	-23.1	-5.4		0.0	0.9	0.0	0.0	-0.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	473.08	-64.5	4.6	-23.2	-5.3		0.0	0.3	0.0	0.0	10.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	508.84	-65.1	5.1	-24.6	-3.8		0.0	0.0	0.0	0.0	26.2
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	505.73	-65.1	5.1	-24.8	-9.3		0.0	0.0	0.0	0.0	21.1
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	203.97	-57.2	3.5	-15.9	-0.7		0.0	0.0	0.0	0.0	40.3
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	232.78	-58.3	3.6	-24.3	-1.1		0.0	0.6	0.0	0.0	31.6
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	255.44	-59.1	3.7	-23.8	-1.1		0.0	0.1	0.0	0.0	23.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	217.30	-57.7	3.5	-19.2	-0.7		0.0	0.0	0.0	0.0	37.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	249.49	-58.9	3.6	-23.2	-1.0		0.0	0.0	0.0	0.0	24.5
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	252.95	-59.1	3.6	-24.0	-1.1		0.0	0.4	0.0	0.0	23.5
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	256.63	-59.2	3.6	-23.5	-1.1		0.0	0.0	0.0	0.0	26.6
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	242.95	-58.7	3.6	-23.9	-1.1		0.0	0.4	0.0	0.0	26.4
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	226.47	-58.1	3.0	-16.6	-0.7		0.0	0.1	0.0	0.0	40.8
PSA Pipe 3" Lagging	Leq,D	80.6	11	491.98	-64.8	3.7	-19.8	-2.8		0.0	0.1	0.0	0.0	-3.1
PSA Skid Additional Piping w NC	Leq,D	116.6	57	511.77	-65.2	5.1	-24.8	-3.9		0.0	0.0	0.0	0.0	27.8
Reformer-Burner Reformer East	Leq,D	97.3	269	458.44	-64.2	3.7	-24.5	-2.5		0.0	0.0	0.0	0.0	12.7
Reformer-Burner Reformer North	Leq,D	95.9	192	465.24	-64.3	3.8	-23.7	-2.3		0.0	0.3	0.0	0.0	9.5
Reformer-Burner Reformer South	Leq,D	95.8	191	447.17	-64.0	3.7	-19.4	-1.6		0.0	0.5	0.0	0.0	17.9
Reformer-Burner Reformer West	Leq,D	97.3	268	454.01	-64.1	3.8	-16.6	-1.5		0.0	0.0	0.0	0.0	21.9
RFG A from battery to process	Leq,D	99.4	87	466.82	-64.4	4.6	-23.2	-5.4		0.0	0.2	0.0	0.0	11.2
RFG A from battery to process w NC	Leq,D	115.2	42	506.60	-65.1	5.1	-24.8	-9.0		0.0	0.1	0.0	0.0	21.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Stack Noise	Leq,D	108.4		421.23	-63.5	3.0	-6.8	-1.1		-5.5	0.0	0.0	0.0	34.6	
Steam Turbine-Facade 01	Leq,D	99.6	29	510.65	-65.2	5.4	-21.4	-2.9		0.0	0.4	0.0	0.0	16.0	
Steam Turbine-Facade 02	Leq,D	96.2	13	507.32	-65.1	5.4	-21.5	-3.0		0.0	1.3	0.0	0.0	13.4	
Steam Turbine-Facade 03	Leq,D	99.6	29	511.67	-65.2	5.4	-24.2	-5.3		0.0	5.4	0.0	0.0	15.7	
Steam Turbine-Facade 04	Leq,D	96.2	13	515.04	-65.2	5.4	-23.9	-5.0		0.0	2.1	0.0	0.0	9.6	
Steam Turbine-Roof 01	Leq,D	99.7	30	511.61	-65.2	5.1	-21.5	-3.0		0.0	1.5	0.0	0.0	16.7	
Tank Farm Pump 1	Leq,D	99.0	3	316.00	-61.0	5.3	-20.2	-1.4		0.0	0.1	0.0	0.0	21.9	
Tank Farm Pump 2	Leq,D	99.0	3	296.55	-60.4	5.3	-23.6	-1.8		0.0	0.0	0.0	0.0	18.5	
Tank Farm Pump 3	Leq,D	99.0	3	291.08	-60.3	5.3	-23.7	-1.7		0.0	0.0	0.0	0.0	18.6	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	718.36	-68.1	5.2	-10.6	-2.7	-0.18	0.0	0.0	-11.8	0.0	24.2	
XF-1502 Splitter Area 1	Leq,D	104.5		578.45	-66.2	4.3	-22.8	-2.3	-0.01	-2.5	0.0	0.0	0.0	14.9	
XF-1502 Splitter Area 2	Leq,D	104.5		577.41	-66.2	4.3	-17.0	-1.8	-0.05	-2.6	0.0	0.0	0.0	21.1	
XF-1504 Splitter Area 1	Leq,D	104.5		574.22	-66.2	4.3	-23.3	-2.6	-0.01	-3.0	0.0	0.0	0.0	13.7	
XF-1504 Splitter Area 2	Leq,D	104.5		573.17	-66.2	4.3	-17.1	-1.8	-0.02	-2.6	0.0	0.0	0.0	21.1	
XF 251, 250, 271, 270	Leq,D	101.1	128	394.48	-62.9	3.9	-3.8	-1.0	0.00	-2.4	0.0	0.0	0.0	34.8	
XF 260, 261A, 261 B	Leq,D	99.9	97	447.02	-64.0	4.1	-2.2	-1.2	0.00	-2.5	0.0	0.0	0.0	34.0	
XF 304, XF 321	Leq,D	110.5	56	649.99	-67.3	4.5	-17.0	-0.9	-0.04	-1.4	0.0	0.0	0.0	28.4	
XF 313, XF 314	Leq,D	113.0	18	659.56	-67.4	4.8	-17.9	-1.4	-0.01	-2.3	0.0	0.0	0.0	28.9	
XF 335-1, XF 335-2	Leq,D	113.4	54	653.53	-67.3	4.5	-19.4	-1.2	-0.03	-1.4	0.0	0.0	0.0	28.5	
XF 353A/B	Leq,D	95.4	35	317.49	-61.0	3.4	-13.4	-0.5	0.00	-1.5	0.0	0.0	0.0	22.4	
XF 353A/B	Leq,D	95.4	35	329.96	-61.4	3.5	-2.3	-1.1		-2.8	0.0	0.0	0.0	31.4	
XF 354A/B	Leq,D	95.4	35	348.16	-61.8	3.6	-13.5	-0.5	0.00	-1.4	0.0	0.0	0.0	21.8	
XF 503	Leq,D	113.0	21	619.17	-66.8	4.8	-17.4	-1.5	-0.37	-2.6	0.0	0.0	0.0	29.2	
XF - 1601	Leq,D	96.6		557.53	-65.9	3.4	-13.0	-0.8		-1.0	0.0	0.0	0.0	19.1	
XF - 1602	Leq,D	96.6		551.84	-65.8	3.3	-13.1	-0.8		-1.0	0.0	0.0	0.0	19.1	
XF Module 1510	Leq,D	108.3		581.98	-66.3	4.4	-23.1	-2.6	-0.02	-3.2	0.0	0.0	0.0	17.4	
XF Module 1519	Leq,D	109.0		583.43	-66.3	4.4	-17.2	-1.8	-0.22	-2.6	0.0	0.0	0.0	25.4	
xxxx xxxx xxxx xxxx	Leq,D		228								9.9			16.2	
xxxx xxxx xxxx xxxx	Leq,D		520								15.7			46.8	
xxxx xxxx xxxx xxxx	Leq,D		1341								2.7			64.6	
xxxx xxxx xxxx xxxx	Leq,D		450								4.0			26.2	
Receiver E-6 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 66.6 dB(A)		Ld 7-19 dB(A)		Leq,N 66.6 dB(A)		Le 19-22 dB(A)		CNEL 73.3 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	388.83	-62.8	5.2	-24.7	-2.8		0.0	2.3	0.0	0.0	21.6	
18-1855 A/B	Leq,D	98.8		366.99	-62.3	5.5	-17.3	-1.0		0.0	0.2	0.0	0.0	23.9	
18-1856 A/B	Leq,D	98.8		360.07	-62.1	5.5	-20.2	-1.1		0.0	0.0	0.0	0.0	20.9	
18-1857 A/B	Leq,D	98.8		373.68	-62.4	5.5	-17.1	-1.0		0.0	0.3	0.0	0.0	24.1	
18-1858 A/B	Leq,D	98.8		378.31	-62.5	5.3	-16.9	-1.0		0.0	0.3	0.0	0.0	24.0	
18-PK 1802 Air Compressor Package	Leq,D	103.1		350.65	-61.9	5.7	-18.8	-0.5		0.0	0.0	0.0	0.0	27.6	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	484.89	-64.7	5.5	-9.5	-2.7	-0.83	0.0	0.0	-2.7	0.0	34.0	
Air Compressor C 1	Leq,D	110.0	5	599.04	-66.5	5.7	-20.9	-1.3	-0.43	0.0	4.2	0.0	0.0	30.8	
Air Compressor Pump	Leq,D	100.3		439.58	-63.9	5.5	-22.9	-2.8		0.0	0.0	0.0	0.0	16.1	
Blower F 401	Leq,D	113.0		559.55	-65.9	5.5	-18.3	-0.7		0.0	0.0	0.0	0.0	33.6	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	293.45	-60.3	5.1	-17.7	-0.6		0.0	0.0	0.0	0.0	25.1	
Boiler Feed Water Pump A	Leq,D	97.1	3	365.58	-62.3	5.4	-18.7	-1.1		0.0	0.0	0.0	0.0	20.4	
Boiler Feed Water Pump B	Leq,D	97.1	3	364.61	-62.2	5.4	-18.7	-1.1		0.0	0.0	0.0	0.0	20.4	
C370 A Motor	Leq,D	103.6	3	446.77	-64.0	5.0	-19.0	-1.3		0.0	0.1	0.0	0.0	24.5	
C370 B Motor	Leq,D	108.6	3	436.42	-63.8	5.0	-21.2	-1.4		0.0	0.0	0.0	0.0	27.2	
C370A	Leq,D	103.8	5	447.58	-64.0	5.1	-19.7	-1.3		0.0	0.0	0.0	0.0	23.9	
C370B	Leq,D	103.8	5	437.25	-63.8	5.1	-17.1	-1.1		0.0	0.0	0.0	0.0	26.8	
C-270 A	Leq,D	106.3	6	317.17	-61.0	4.8	-17.4	-1.0	-1.08	0.0	0.0	0.0	0.0	30.6	
C-270 B	Leq,D	106.3	6	322.11	-61.2	4.8	-16.9	-1.0	-1.13	0.0	0.0	0.0	0.0	30.8	
C-270 C	Leq,D	106.3	6	326.95	-61.3	4.8	-16.3	-1.0	-1.10	0.0	0.1	0.0	0.0	31.5	
C-301 Compressor	Leq,D	106.8	3	302.07	-60.6	4.7	-6.5	-1.2	-1.18	0.0	0.0	0.0	0.0	42.0	
C-301 Motor	Leq,D	106.8	4	305.84	-60.7	4.7	-7.2	-1.7	-1.38	0.0	0.0	0.0	0.0	40.6	
C-351 Compressor	Leq,D	106.8	4	298.19	-60.5	4.7	-12.6	-1.0	-0.83	0.0	0.0	0.0	0.0	36.6	
C-351 Motor	Leq,D	106.8	5	298.19	-60.5	4.4	-17.6	-1.5	-0.93	0.0	0.0	0.0	0.0	30.8	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	500.18	-65.0	5.6	-8.9	-1.0	-0.93	0.0	0.0	-33.5	0.0	30.9	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	596.63	-66.5	5.3	-19.3	-1.1	-0.73	0.1	0.0	0.0	0.0	22.5	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	593.90	-66.5	5.3	-15.9	-1.2	-0.75	0.0	0.0	0.0	0.0	21.5	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	605.87	-66.6	5.3	-20.7	-1.3	-0.73	-4.1	0.0	0.0	0.0	18.4	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	605.55	-66.6	5.3	-19.7	-1.2	-0.70	4.6	0.0	0.0	0.0	32.4	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	595.19	-66.5	5.3	-20.0	-1.2	-0.73	4.5	1.9	0.0	0.0	27.2	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	616.25	-66.8	5.3	-21.7	-1.7	-0.73	-7.8	0.0	0.0	0.0	7.1	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	526.49	-65.4	5.3	-19.9	-1.3		0.3	0.0	0.0	0.0	16.7	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	538.45	-65.6	5.3	-21.0	-1.5		-7.8	0.0	0.0	0.0	7.3	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	502.38	-65.0	5.0	-15.2	-1.0		0.3	0.0	0.0	0.0	24.8
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	519.72	-65.3	5.1	-21.3	-1.5		-7.8	1.6	0.0	0.0	11.5
Cooling Tower M 512	Leq,D	95.7		530.90	-65.5	5.6	-17.3	-1.8		0.0	0.0	0.0	0.0	16.7
Cooling Tower M 513	Leq,D	95.7		532.27	-65.5	5.5	-17.6	-1.8		0.0	0.0	0.0	0.0	16.3
Cooling Tower M 514	Leq,D	95.7		529.41	-65.5	5.6	-17.3	-1.8		0.0	0.0	0.0	0.0	16.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	381.86	-62.6	4.0	-14.2	-0.5		-1.3	0.0	0.0	0.0	21.2
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	403.03	-63.1	5.1	-15.9	-0.1		0.0	0.0	0.0	0.0	21.4
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	405.11	-63.1	5.2	-16.8	-0.1		0.0	0.2	0.0	0.0	18.4
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	404.23	-63.1	4.7	-16.3	-0.1		0.0	0.2	0.0	0.0	18.7
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	403.33	-63.1	5.1	-20.0	-0.1		0.0	0.1	0.0	0.0	15.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	405.40	-63.1	5.1	-18.6	-0.1		0.0	0.4	0.0	0.0	19.0
FD Motor	Leq,D	103.3	2	401.97	-63.1	5.3	-23.7	-2.7		0.0	2.9	0.0	0.0	22.1
Feed Compressor -B Motor	Leq,D	103.8	5	402.98	-63.1	4.9	-22.9	-2.4		0.0	0.0	0.0	0.0	20.3
Feed Compressor-A Compressor	Leq,D	104.0	5	418.07	-63.4	5.1	-20.9	-1.4		0.0	0.1	0.0	0.0	23.6
Feed Compressor-A Motor	Leq,D	103.8	6	416.84	-63.4	5.0	-20.8	-1.9		0.0	0.1	0.0	0.0	22.7
Feed Compressor-B Compressor	Leq,D	104.0	7	404.30	-63.1	5.0	-19.2	-1.2		0.0	0.0	0.0	0.0	25.6
H2S Compressor 18-C-271	Leq,D	105.3	6	587.09	-66.4	5.5	-16.5	-1.5	-0.42	0.0	0.0	0.0	0.0	26.0
Heater # 5-Heater	Leq,D	91.1	13	294.43	-60.4	5.1	-20.9	-0.8		0.0	1.3	0.0	0.0	18.5
Heater # 5-Heater	Leq,D	91.1	13	299.44	-60.5	5.1	-21.1	-0.8	-0.06	0.0	0.0	0.0	0.0	16.7
Heater # 5-Heater	Leq,D	91.1	13	289.55	-60.2	5.1	-20.8	-0.8		0.0	1.0	0.0	0.0	18.4
Hydro Heater H-402	Leq,D	98.1		557.07	-65.9	5.6	-18.4	-1.0		0.0	0.0	0.0	0.0	18.4
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	387.04	-62.7	5.3	-22.4	-0.1		0.0	0.1	0.0	0.0	7.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	386.08	-62.7	5.2	-11.9	-0.1		0.0	0.0	0.0	0.0	17.8
ID Fan-ID Fan - North	Leq,D	92.2	8	388.53	-62.8	5.2	-22.2	-0.1		0.0	0.4	0.0	0.0	12.8
ID Fan-ID Fan - North 2	Leq,D	91.4	7	385.83	-62.7	5.2	-22.5	-0.1		0.0	0.1	0.0	0.0	11.3
ID Fan-ID Fan - South	Leq,D	92.3	9	387.22	-62.8	5.2	-11.8	-0.1		0.0	0.0	0.0	0.0	22.9
ID Fan-ID Fan - South 2	Leq,D	91.4	7	385.20	-62.7	5.2	-17.7	-0.1		0.0	0.0	0.0	0.0	16.1
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	387.24	-62.8	4.9	-15.2	-0.1		0.0	0.3	0.0	0.0	21.2
Motor & Pump P 56A/B	Leq,D	93.7		568.90	-66.1	5.6	-20.8	-2.4	-0.15	0.0	0.8	0.0	0.0	10.7
Motor & Pump P 120/121	Leq,D	96.2	2	594.34	-66.5	5.7	-19.5	-1.7	-0.56	0.0	0.0	0.0	0.0	13.6
Motor & Pump P 211/212	Leq,D	93.7		581.77	-66.3	5.7	-20.8	-2.3	-0.60	0.0	0.0	0.0	0.0	9.3
Motor & Pump P 215/214	Leq,D	94.6		583.22	-66.3	5.7	-19.7	-2.3	-0.60	0.0	0.0	0.0	0.0	11.4
Motor & Pump P 216	Leq,D	98.3		588.34	-66.4	5.6	-20.2	-2.2	-0.74	0.0	0.0	0.0	0.0	14.4
Motor & Pump P 217/218	Leq,D	93.7		582.42	-66.3	5.8	-20.9	-2.2	-0.60	0.0	0.0	0.0	0.0	9.4
Motor & Pump P 300	Leq,D	97.1	2	606.32	-66.6	5.7	-18.5	-1.7	-0.56	0.0	0.0	0.0	0.0	15.3
Motor & Pump P 301	Leq,D	102.1	2	605.78	-66.6	5.7	-20.5	-1.8	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 302	Leq,D	97.1	2	606.90	-66.7	5.7	-19.3	-1.7	-0.56	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 303	Leq,D	97.1	2	607.48	-66.7	5.7	-21.6	-1.9	-0.24	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 305	Leq,D	97.5	2	607.96	-66.7	5.7	-19.6	-1.7	-0.56	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 306	Leq,D	112.6	4	610.91	-66.7	5.6	-22.0	-2.0	-0.52	0.0	0.2	0.0	0.0	27.2
Motor & Pump P 307	Leq,D	102.1	2	604.25	-66.6	5.7	-21.9	-2.0	-0.55	0.0	0.0	0.0	0.0	16.7
Motor & Pump P 309	Leq,D	97.5	2	608.45	-66.7	5.7	-21.3	-1.9	-0.24	0.0	0.0	0.0	0.0	13.0
Motor & Pump P 312	Leq,D	101.5	2	597.75	-66.5	5.7	-19.1	-1.7	-0.25	0.0	0.0	0.0	0.0	19.7
Motor & Pump P 313	Leq,D	101.5	2	597.26	-66.5	5.7	-18.8	-1.7	-0.24	0.0	0.0	0.0	0.0	20.0
Motor & Pump P 315	Leq,D	102.9	2	595.76	-66.5	5.7	-19.0	-1.7	-0.24	0.0	0.0	0.0	0.0	21.2
Motor & Pump P 316	Leq,D	102.9	2	595.24	-66.5	5.7	-19.8	-1.8	-0.24	0.0	0.0	0.0	0.0	20.3
Motor & Pump P 317	Leq,D	102.9	2	594.62	-66.5	5.7	-19.9	-1.8	-0.24	0.0	0.0	0.0	0.0	20.2
Motor & Pump P 318	Leq,D	100.2	1	595.81	-66.5	5.8	-19.1	-1.7	-0.24	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 319	Leq,D	100.2	1	596.21	-66.5	5.8	-18.9	-1.7	-0.24	0.0	0.0	0.0	0.0	18.6
Motor & Pump P 327	Leq,D	111.2	3	614.27	-66.8	5.7	-24.4	-3.5		0.0	1.3	0.0	0.0	23.6
Motor & Pump P 328	Leq,D	109.9	5	608.90	-66.7	5.6	-23.1	-2.2	-0.55	0.0	0.0	0.0	0.0	23.0
Motor & Pump P 329	Leq,D	110.2	5	609.87	-66.7	5.6	-23.4	-2.3	-0.53	0.0	0.0	0.0	0.0	22.8
Motor & Pump P 451	Leq,D	93.7		554.34	-65.9	5.6	-17.6	-2.0		0.0	0.0	0.0	0.0	13.8
Motor & Pump P 453	Leq,D	93.7		549.05	-65.8	5.6	-22.0	-2.6		0.0	0.0	0.0	0.0	8.9
Motor & Pump P 454	Leq,D	93.7		555.89	-65.9	5.6	-17.6	-2.0		0.0	0.0	0.0	0.0	13.7
Motor & Pump P 457	Leq,D	93.7		548.74	-65.8	5.6	-21.9	-2.6		0.0	0.0	0.0	0.0	9.0
Motor & Pump P 458	Leq,D	93.7		553.22	-65.9	5.6	-17.6	-2.0		0.0	0.0	0.0	0.0	13.8
Motor & Pump P 459	Leq,D	93.7		556.11	-65.9	5.6	-17.6	-2.0		0.0	0.2	0.0	0.0	13.9
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		547.79	-65.8	5.6	-20.7	-2.3	-0.14	0.0	0.7	0.0	0.0	13.6
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		548.26	-65.8	5.6	-18.0	-2.0	-0.27	0.0	0.0	0.0	0.0	15.8
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		550.11	-65.8	5.6	-21.1	-2.2	-0.19	0.0	0.0	0.0	0.0	11.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		550.51	-65.8	5.6	-23.4	-3.0	-0.22	0.0	0.0	0.0	0.0	8.6
Motor & Pump P 1601 A	Leq,D	96.3	2	520.86	-65.3	5.5	-19.7	-2.1		0.0	0.0	0.0	0.0	14.6
Motor & Pump P 1601 B	Leq,D	96.3	2	519.37	-65.3	5.5	-20.5	-2.1		0.0	0.0	0.0	0.0	13.8
Motor & Pump P 1602 A	Leq,D	96.3	2	518.20	-65.3	5.5	-20.3	-2.1		0.0	0.4	0.0	0.0	14.5
Motor & Pump P 1602 B	Leq,D	96.5	2	516.76	-65.3	5.5	-20.8	-2.2		0.0	0.8	0.0	0.0	14.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	539.01	-65.6	5.6	-21.1	-2.6	-0.20	0.0	0.0	0.0	0.0	12.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	540.48	-65.6	5.6	-17.7	-1.9	-0.18	0.0	0.0	0.0	0.0	16.8	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	541.20	-65.7	5.6	-21.1	-2.2	-0.18	0.0	0.0	0.0	0.0	13.1	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	548.13	-65.8	5.6	-21.0	-2.6		0.0	0.0	0.0	0.0	12.9	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	548.64	-65.8	5.6	-17.6	-2.0	-0.31	0.0	0.0	0.0	0.0	16.7	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	536.29	-65.6	5.6	-21.6	-2.4	-0.02	0.0	0.3	0.0	0.0	12.7	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	538.48	-65.6	5.6	-21.6	-2.3	-0.08	0.0	0.2	0.0	0.0	12.6	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	542.29	-65.7	5.6	-21.7	-2.4	-0.18	0.0	0.1	0.0	0.0	12.0	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	540.58	-65.6	5.6	-21.5	-2.3	-0.13	0.0	0.1	0.0	0.0	12.4	
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	575.12	-66.2	5.5	-21.0	-1.8		0.0	0.0	0.0	0.0	20.6	
P-2 A/B	Leq,D	98.5		203.47	-57.2	5.4	-24.6	-1.0		0.0	11.3	0.0	0.0	32.5	
P-50 A/B	Leq,D	98.1		238.62	-58.5	5.5	-23.7	-1.0	-0.08	0.0	0.7	0.0	0.0	20.9	
P-51 A/B	Leq,D	98.1		238.84	-58.6	5.5	-23.8	-1.0	-0.08	0.0	0.7	0.0	0.0	20.9	
P-060 A/B	Leq,D	98.1		238.66	-58.5	5.5	-24.4	-1.1	-0.09	0.0	0.0	0.0	0.0	19.5	
P-63	Leq,D	98.5		235.57	-58.4	5.5	-24.0	-1.0		0.0	0.0	0.0	0.0	20.6	
P-70 A/B	Leq,D	98.1		238.61	-58.5	5.5	-24.5	-1.1	-0.10	0.0	0.0	0.0	0.0	19.4	
P-73 A/B	Leq,D	98.5		207.91	-57.3	5.4	-24.5	-1.0		0.0	12.0	0.0	0.0	33.1	
P-251 A/B	Leq,D	98.2		375.65	-62.5	5.7	-14.6	-1.1	-2.15	0.0	0.0	0.0	0.0	23.6	
P-252 A/B	Leq,D	98.2		372.63	-62.4	5.7	-8.0	-1.3	-2.43	0.0	0.0	0.0	0.0	29.7	
P-253	Leq,D	98.2		364.73	-62.2	5.7	-8.4	-1.3	-2.26	0.0	0.0	0.0	0.0	29.7	
P-254 A/B	Leq,D	98.2		363.98	-62.2	5.7	-7.4	-1.3	-2.26	0.0	0.0	0.0	0.0	30.8	
P-255 A/B	Leq,D	98.2		367.52	-62.3	5.7	-7.3	-1.3	-2.33	0.0	0.0	0.0	0.0	30.6	
P-255 A/B	Leq,D	98.2		383.11	-62.7	5.7	-14.7	-1.1	-2.20	0.0	0.0	0.0	0.0	23.3	
P-256 A/B	Leq,D	98.2		372.11	-62.4	5.7	-14.4	-1.1	-2.12	0.0	0.0	0.0	0.0	23.8	
P-259 A/B	Leq,D	98.2		379.26	-62.6	5.7	-14.6	-1.1	-2.17	0.0	0.0	0.0	0.0	23.4	
P-260	Leq,D	99.1		392.64	-62.9	5.7	-7.4	-1.4	-2.87	0.0	0.0	0.0	0.0	30.3	
P-261 A/B	Leq,D	98.0		417.07	-63.4	5.7	-8.5	-1.4	-3.42	0.0	0.0	0.0	0.0	27.0	
P-262 A/B	Leq,D	99.1		401.44	-63.1	5.7	-7.1	-1.5	-3.06	0.0	0.0	0.0	0.0	30.1	
P-263 A/B	Leq,D	99.4		397.24	-63.0	5.7	-7.2	-1.5	-2.97	0.0	0.0	0.0	0.0	30.5	
P-270 A/B	Leq,D	98.5		320.45	-61.1	5.6	-18.2	-1.0	-1.72	0.0	0.0	0.0	0.0	22.2	
P-271 A/B	Leq,D	98.2		353.89	-62.0	5.7	-8.1	-1.2	-2.03	0.0	0.0	0.0	0.0	30.5	
P-272 A/B	Leq,D	98.2		358.78	-62.1	5.7	-7.9	-1.2	-2.14	0.0	0.0	0.0	0.0	30.5	
P-273 A/B	Leq,D	98.5		324.06	-61.2	5.6	-17.0	-1.0	-1.80	0.0	0.0	0.0	0.0	23.1	
P-275 A/B/C	Leq,D	98.2		353.11	-62.0	5.7	-19.0	-0.9	-1.64	0.0	0.0	0.0	0.0	20.3	
P-305	Leq,D	99.3		308.72	-60.8	5.6	-21.6	-1.0	-1.17	0.0	2.2	0.0	0.0	22.5	
P-306	Leq,D	100.8		298.91	-60.5	5.6	-21.9	-1.0	-1.09	0.0	1.8	0.0	0.0	23.7	
P-309	Leq,D	99.3		306.32	-60.7	5.6	-21.7	-1.0	-1.15	0.0	2.1	0.0	0.0	22.5	
P-328	Leq,D	100.8		293.15	-60.3	5.6	-22.0	-1.0	-1.04	0.0	1.7	0.0	0.0	23.7	
P-329	Leq,D	100.8		295.93	-60.4	5.6	-21.9	-1.0	-1.07	0.0	1.8	0.0	0.0	23.8	
P-353	Leq,D	98.5		304.98	-60.7	5.3	-21.0	-1.0	-1.05	0.0	0.0	0.0	0.0	20.1	
P-358 A/B	Leq,D	99.4		283.89	-60.1	5.6	-23.4	-1.1	-0.61	0.0	2.2	0.0	0.0	22.0	
P-359 A/B	Leq,D	99.4		283.86	-60.1	5.6	-23.8	-1.2	-0.90	0.0	0.6	0.0	0.0	19.6	
P-360 A/B	Leq,D	99.4		284.17	-60.1	5.6	-23.8	-1.2	-0.60	0.0	0.0	0.0	0.0	19.4	
P-361A	Leq,D	98.1		240.53	-58.6	5.1	-18.4	-0.7	-0.10	0.0	0.3	0.0	0.0	25.7	
P-371 A/B	Leq,D	98.0		490.61	-64.8	5.6	-19.1	-1.5		0.0	0.0	0.0	0.0	18.2	
P-373 A/B	Leq,D	98.0		472.10	-64.5	5.6	-19.6	-1.4		0.0	0.0	0.0	0.0	18.1	
P-374 A/B	Leq,D	98.0		475.84	-64.5	5.6	-19.4	-1.4		0.0	0.0	0.0	0.0	18.2	
P-375 A/B	Leq,D	98.0		484.37	-64.7	5.6	-19.4	-1.4		0.0	0.0	0.0	0.0	18.1	
P-376	Leq,D	98.0		478.24	-64.6	5.6	-19.3	-1.4		0.0	0.0	0.0	0.0	18.2	
P-376 A/B	Leq,D	98.0		468.10	-64.4	5.6	-19.8	-1.4		0.0	0.0	0.0	0.0	18.0	
P-377	Leq,D	98.0		480.46	-64.6	5.6	-19.5	-1.4		0.0	0.0	0.0	0.0	18.0	
P-1101 A	Leq,D	98.9		210.70	-57.5	5.0	-22.9	-0.9		0.0	9.9	0.0	0.0	32.6	
P-1103	Leq,D	98.9		212.17	-57.5	5.0	-22.8	-0.9		0.0	0.4	0.0	0.0	23.1	
P-1105 A/B/C	Leq,D	98.9		205.09	-57.2	5.0	-23.0	-0.9		0.0	0.0	0.0	0.0	22.8	
P-1800	Leq,D	98.9		186.63	-56.4	5.4	-24.4	-0.9		0.0	19.8	0.0	0.0	42.3	
P-1801	Leq,D	98.9		138.38	-53.8	5.1	-5.6	-0.7		0.0	3.5	0.0	0.0	47.4	
P-1802	Leq,D	98.9		137.60	-53.8	5.1	-5.6	-0.7		0.0	3.4	0.0	0.0	47.5	
P-1803	Leq,D	99.1		231.12	-58.3	5.5	-24.5	-1.1		0.0	1.1	0.0	0.0	21.8	
P-1804	Leq,D	99.1		216.06	-57.7	5.5	-23.9	-0.9		0.0	0.0	0.0	0.0	22.0	
P-1805	Leq,D	99.1		212.90	-57.6	5.4	-24.1	-0.9		0.0	0.4	0.0	0.0	22.4	
P-1806	Leq,D	99.1		255.10	-59.1	5.5	-22.3	-0.9	-0.17	0.0	0.1	0.0	0.0	22.2	
P-1809 A	Leq,D	98.9		173.59	-55.8	5.3	-24.7	-0.9		0.0	1.1	0.0	0.0	24.0	
P-1810 A/B/C	Leq,D	99.0		211.93	-57.5	5.4	-24.4	-1.0		0.0	2.0	0.0	0.0	23.6	
P-1811 A/B	Leq,D	99.1		248.27	-58.9	5.5	-22.5	-0.9	-0.04	0.0	0.1	0.0	0.0	22.5	
P-1811 A/B	Leq,D	99.1		209.00	-57.4	5.4	-24.2	-0.9		0.0	1.1	0.0	0.0	23.1	
P-1847 A/B	Leq,D	99.4		258.63	-59.2	5.5	-23.9	-1.1		0.0	0.0	0.0	0.0	20.7	
P-1849 A/B	Leq,D	99.4		252.57	-59.0	5.5	-24.1	-1.1		0.0	0.4	0.0	0.0	21.1	
P-1853	Leq,D	99.1		353.81	-62.0	5.7	-21.3	-1.1	-0.82	0.0	0.0	0.0	0.0	19.6	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Piping Furnace Tanks	Leq,D	87.1	72	425.93	-63.6	4.3	-22.7	-5.0		0.0	1.9	0.0	0.0	2.0
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	434.04	-63.7	4.5	-22.2	-4.9		0.0	0.3	0.0	0.0	12.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	470.27	-64.4	5.1	-24.7	-3.6		0.0	0.1	0.0	0.0	26.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	467.14	-64.4	5.1	-24.9	-9.2		0.0	0.1	0.0	0.0	21.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	167.83	-55.5	3.4	-11.3	-0.6		0.0	0.0	0.0	0.0	46.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	197.16	-56.9	3.4	-24.3	-0.9		0.0	0.5	0.0	0.0	32.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	218.29	-57.8	3.5	-24.0	-1.0		0.0	0.1	0.0	0.0	25.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	178.76	-56.0	3.4	-19.3	-0.6		0.0	0.0	0.0	0.0	38.6
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	211.36	-57.5	3.4	-23.5	-0.9		0.0	0.1	0.0	0.0	25.6
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	216.43	-57.7	3.5	-24.0	-1.0		0.0	0.2	0.0	0.0	24.8
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	218.90	-57.8	3.5	-23.9	-1.0		0.0	0.1	0.0	0.0	27.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	204.51	-57.2	3.3	-23.9	-0.9		0.0	0.3	0.0	0.0	27.8
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	189.35	-56.5	3.0	-18.4	-0.6		0.0	0.1	0.0	0.0	40.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	453.59	-64.1	3.6	-19.0	-2.6		0.0	0.1	0.0	0.0	-1.5
PSA Skid Additional Piping w NC	Leq,D	116.6	57	473.19	-64.5	5.1	-24.8	-3.7		0.0	0.1	0.0	0.0	28.7
Reformer-Burner Reformer East	Leq,D	97.3	269	420.61	-63.5	3.5	-24.3	-2.3		0.0	0.0	0.0	0.0	13.6
Reformer-Burner Reformer North	Leq,D	95.9	192	427.09	-63.6	3.6	-23.8	-2.2		0.0	0.3	0.0	0.0	10.2
Reformer-Burner Reformer South	Leq,D	95.8	191	409.25	-63.2	3.6	-20.9	-1.6		0.0	0.6	0.0	0.0	17.1
Reformer-Burner Reformer West	Leq,D	97.3	268	415.77	-63.4	3.7	-17.6	-1.3		0.0	0.0	0.0	0.0	21.7
RFG A from battery to process	Leq,D	99.4	87	427.77	-63.6	4.5	-22.3	-4.9		0.0	0.8	0.0	0.0	13.8
RFG A from battery to process w NC	Leq,D	115.2	42	468.08	-64.4	5.1	-24.8	-8.9		0.0	0.1	0.0	0.0	22.3
Stack Noise	Leq,D	108.4		383.79	-62.7	3.0	-12.0	-0.5		-4.8	0.0	0.0	0.0	31.4
Steam Turbine-Facade 01	Leq,D	99.6	29	471.63	-64.5	5.4	-20.1	-2.6		0.0	0.4	0.0	0.0	18.2
Steam Turbine-Facade 02	Leq,D	96.2	13	468.37	-64.4	5.4	-20.0	-2.6		0.0	1.4	0.0	0.0	16.0
Steam Turbine-Facade 03	Leq,D	99.6	29	472.72	-64.5	5.4	-22.4	-4.1		0.0	3.9	0.0	0.0	17.9
Steam Turbine-Facade 04	Leq,D	96.2	13	476.04	-64.5	5.4	-23.0	-4.4		0.0	1.1	0.0	0.0	10.8
Steam Turbine-Roof 01	Leq,D	99.7	30	472.14	-64.5	5.0	-20.7	-2.7		0.0	1.8	0.0	0.0	18.7
Tank Farm Pump 1	Leq,D	99.0	3	279.20	-59.9	5.3	-22.8	-1.6		0.0	0.9	0.0	0.0	20.9
Tank Farm Pump 2	Leq,D	99.0	3	260.34	-59.3	5.2	-21.3	-1.2		0.0	0.3	0.0	0.0	22.7
Tank Farm Pump 3	Leq,D	99.0	3	255.04	-59.1	5.2	-21.4	-1.2		0.0	0.0	0.0	0.0	22.5
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	674.34	-67.6	5.1	-10.6	-2.6	-0.32	0.0	0.0	-11.8	0.0	24.7
XF-1502 Splitter Area 1	Leq,D	104.5		539.57	-65.6	4.1	-15.8	-1.7	-0.06	-2.5	0.0	0.0	0.0	23.0
XF-1502 Splitter Area 2	Leq,D	104.5		538.46	-65.6	4.1	-15.8	-1.7	-0.05	-2.5	0.0	0.0	0.0	23.0
XF-1504 Splitter Area 1	Leq,D	104.5		535.36	-65.6	4.1	-20.2	-2.0	-0.01	-2.7	0.0	0.0	0.0	18.1
XF-1504 Splitter Area 2	Leq,D	104.5		534.24	-65.5	4.1	-15.9	-1.7	-0.02	-2.5	0.0	0.0	0.0	23.0
XF 251, 250, 271, 270	Leq,D	101.1	128	353.96	-62.0	3.6	-2.5	-1.0	-0.02	-2.5	0.0	0.0	0.0	36.6
XF 260, 261A, 261 B	Leq,D	99.9	97	406.47	-63.2	3.9	-2.2	-1.2	0.00	-2.6	0.0	0.0	0.0	34.7
XF 304, XF 321	Leq,D	110.5	56	611.25	-66.7	4.4	-16.6	-0.9	-0.04	-1.3	0.0	0.0	0.0	29.3
XF 313, XF 314	Leq,D	113.0	18	621.41	-66.9	4.7	-19.8	-1.3	-0.01	-2.2	0.0	0.0	0.0	27.6
XF 335-1, XF 335-2	Leq,D	113.4	54	615.03	-66.8	4.4	-19.4	-1.2	-0.03	-1.4	0.0	0.0	0.0	29.0
XF 353A/B	Leq,D	95.4	35	277.02	-59.8	3.0	-13.8	-0.4	0.00	-1.6	0.0	0.0	0.0	22.8
XF 353A/B	Leq,D	95.4	35	289.48	-60.2	3.1	-3.6	-0.9		-2.6	0.0	0.0	0.0	31.2
XF 354A/B	Leq,D	95.4	35	307.87	-60.8	3.3	-14.9	-0.4	0.00	-1.4	0.0	0.0	0.0	21.3
XF 503	Leq,D	113.0	21	579.68	-66.3	4.7	-17.2	-1.5	-0.34	-2.7	0.0	0.0	0.0	29.8
XF - 1601	Leq,D	96.6		518.57	-65.3	3.2	-12.1	-0.8		-1.0	0.0	0.0	0.0	20.7
XF - 1602	Leq,D	96.6		512.91	-65.2	3.1	-12.1	-0.8		-1.0	0.0	0.0	0.0	20.7
XF Module 1510	Leq,D	108.3		542.92	-65.7	4.3	-20.6	-2.1	-0.02	-2.9	0.0	0.0	0.0	21.3
XF Module 1519	Leq,D	109.0		544.47	-65.7	4.3	-15.9	-1.7	-0.22	-2.5	0.0	0.0	0.0	27.3
xxxx xxxx xxxx xxxx	Leq,D		228								11.3			18.8
xxxx xxxx xxxx xxxx	Leq,D		520								13.0			44.0
xxxx xxxx xxxx xxxx	Leq,D		1341								2.2			66.3
xxxx xxxx xxxx xxxx	Leq,D		450								7.6			30.4

Receiver S-1 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 61.0 dB(A)	Ld 7-19 dB(A)	Leq,N 61.0 dB(A)	Le 19-22 dB(A)	CNEL 67.6 dB(A)	Lmax day hr dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	442.72	-63.9	5.3	-24.4	-3.0		0.0	1.3	0.0	0.0	19.8
18-1855 A/B	Leq,D	98.8		401.27	-63.1	5.5	-18.9	-1.2		0.0	0.0	0.0	0.0	21.3
18-1856 A/B	Leq,D	98.8		394.92	-62.9	5.5	-19.0	-1.2		0.0	0.0	0.0	0.0	21.2
18-1857 A/B	Leq,D	98.8		407.44	-63.2	5.5	-18.6	-1.2		0.0	0.0	0.0	0.0	21.3
18-1858 A/B	Leq,D	98.8		411.68	-63.3	5.4	-18.2	-1.2		0.0	0.0	0.0	0.0	21.5
18-PK 1802 Air Compressor Package	Leq,D	103.1		382.91	-62.7	5.7	-16.3	-0.6	-0.41	0.0	0.0	0.0	0.0	28.9
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	499.82	-65.0	5.5	-17.3	-1.2	-0.01	0.0	0.0	-2.7	0.0	28.3
Air Compressor C 1	Leq,D	110.0	5	643.24	-67.2	5.7	-19.0	-1.2	-0.58	0.0	4.5	0.0	0.0	32.3
Air Compressor Pump	Leq,D	100.3		466.37	-64.4	5.5	-24.0	-3.5		0.0	0.0	0.0	0.0	13.9
Blower F 401	Leq,D	113.0		586.71	-66.4	5.5	-19.2	-0.7		0.0	0.0	0.0	0.0	32.2
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	291.28	-60.3	5.1	-23.6	-1.0		0.0	0.0	0.0	0.0	18.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Boiler Feed Water Pump A	Leq,D	97.1	3	406.38	-63.2	5.4	-19.0	-1.2		0.0	0.0	0.0	0.0	19.2
Boiler Feed Water Pump B	Leq,D	97.1	3	404.62	-63.1	5.4	-19.0	-1.2		0.0	0.0	0.0	0.0	19.2
C370 A Motor	Leq,D	103.6	3	483.03	-64.7	5.1	-21.0	-1.5		0.0	0.1	0.0	0.0	21.7
C370 B Motor	Leq,D	108.6	3	473.37	-64.5	5.1	-21.2	-1.5		0.0	0.0	0.0	0.0	26.5
C370A	Leq,D	103.8	5	484.75	-64.7	5.1	-17.5	-1.4		0.0	0.0	0.0	0.0	25.3
C370B	Leq,D	103.8	5	475.13	-64.5	5.1	-18.1	-1.4		0.0	0.0	0.0	0.0	24.9
C-270 A	Leq,D	106.3	6	334.57	-61.5	4.8	-21.4	-1.2	-0.93	0.0	0.0	0.0	0.0	26.2
C-270 B	Leq,D	106.3	6	339.24	-61.6	4.9	-22.1	-1.3	-0.97	0.0	0.0	0.0	0.0	25.2
C-270 C	Leq,D	106.3	6	343.84	-61.7	4.9	-20.7	-1.1	-0.92	0.0	0.2	0.0	0.0	26.9
C-301 Compressor	Leq,D	106.8	3	328.34	-61.3	4.8	-17.9	-0.9	-0.90	0.0	1.7	0.0	0.0	32.3
C-301 Motor	Leq,D	106.8	4	331.83	-61.4	4.8	-19.4	-1.5	-1.16	0.0	0.9	0.0	0.0	29.1
C-351 Compressor	Leq,D	106.8	4	318.79	-61.1	4.8	-20.3	-1.0	-0.83	0.0	0.0	0.0	0.0	28.4
C-351 Motor	Leq,D	106.8	5	317.18	-61.0	4.5	-21.5	-1.6	-0.93	0.0	0.2	0.0	0.0	26.5
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	514.58	-65.2	5.6	-14.5	-0.7	-0.03	0.0	0.0	-33.5	0.0	26.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	629.21	-67.0	5.4	-18.7	-1.2	-0.75	0.5	0.4	0.0	0.0	23.4
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	627.50	-66.9	5.4	-12.8	-1.4	-0.83	0.0	0.0	0.0	0.0	23.9
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	639.30	-67.1	5.4	-21.6	-1.4	-0.75	-5.8	0.0	0.0	0.0	15.3
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	637.26	-67.1	5.4	-21.0	-1.3	-0.84	4.0	0.0	0.0	0.0	29.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	628.26	-67.0	5.4	-15.0	-1.3	-0.77	3.9	1.7	0.0	0.0	30.7
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	648.27	-67.2	5.4	-22.8	-1.9	-0.82	-7.8	0.0	0.0	0.0	5.2
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	563.78	-66.0	5.4	-19.1	-1.3		0.9	0.0	0.0	0.0	17.6
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	574.95	-66.2	5.3	-22.5	-1.7		-7.8	0.0	0.0	0.0	5.0
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	541.11	-65.7	5.1	-13.4	-1.1		1.0	0.0	0.0	0.0	26.5
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	557.24	-65.9	5.2	-22.4	-1.7		-7.8	7.5	0.0	0.0	15.6
Cooling Tower M 512	Leq,D	95.7		566.68	-66.1	5.6	-15.4	-2.0		0.0	0.0	0.0	0.0	17.8
Cooling Tower M 513	Leq,D	95.7		567.93	-66.1	5.6	-15.4	-2.0		0.0	2.4	0.0	0.0	20.2
Cooling Tower M 514	Leq,D	95.7		565.25	-66.0	5.6	-15.5	-2.0		0.0	0.0	0.0	0.0	17.8
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	427.68	-63.6	4.3	-12.7	-0.6		-1.5	0.0	0.0	0.0	21.6
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	457.05	-64.2	5.2	-13.4	-0.1		0.0	0.0	0.0	0.0	22.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	459.38	-64.2	5.3	-19.6	-0.2		0.0	1.1	0.0	0.0	15.5
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	458.10	-64.2	4.8	-11.1	-0.1		0.0	0.0	0.0	0.0	22.8
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	456.82	-64.2	5.2	-13.6	-0.1		0.0	3.7	0.0	0.0	24.1
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	459.14	-64.2	5.2	-16.1	-0.1		0.0	5.1	0.0	0.0	25.2
FD Motor	Leq,D	103.3	2	456.13	-64.2	5.3	-24.5	-3.4		0.0	4.2	0.0	0.0	20.8
Feed Compressor -B Motor	Leq,D	103.8	5	440.01	-63.9	5.0	-22.7	-2.4		0.0	0.0	0.0	0.0	19.8
Feed Compressor-A Compressor	Leq,D	104.0	5	455.24	-64.2	5.1	-17.6	-1.3		0.0	0.1	0.0	0.0	26.2
Feed Compressor-A Motor	Leq,D	103.8	6	452.88	-64.1	5.0	-20.4	-2.1		0.0	0.0	0.0	0.0	22.3
Feed Compressor-B Compressor	Leq,D	104.0	7	442.63	-63.9	5.1	-19.5	-1.3		0.0	0.0	0.0	0.0	24.4
H2S Compressor 18-C-271	Leq,D	105.3	6	626.17	-66.9	5.5	-19.5	-1.7	-0.24	0.0	0.0	0.0	0.0	22.5
Heater # 5-Heater	Leq,D	91.1	13	293.63	-60.3	5.1	-21.1	-0.7		0.0	0.0	0.0	0.0	17.1
Heater # 5-Heater	Leq,D	91.1	13	298.66	-60.5	5.1	-20.9	-0.7		0.0	0.0	0.0	0.0	17.2
Heater # 5-Heater	Leq,D	91.1	13	288.71	-60.2	5.1	-21.3	-0.7		0.0	0.0	0.0	0.0	17.1
Hydro Heater H-402	Leq,D	98.1		591.24	-66.4	5.6	-22.9	-1.4		0.0	0.0	0.0	0.0	12.9
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	440.71	-63.9	5.3	-20.5	-0.1		0.0	0.1	0.0	0.0	7.9
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	439.28	-63.8	5.3	-8.2	-0.1		0.0	0.0	0.0	0.0	20.4
ID Fan-ID Fan - North	Leq,D	92.2	8	442.10	-63.9	5.3	-16.7	-0.1		0.0	0.4	0.0	0.0	17.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	439.53	-63.9	5.3	-20.6	-0.1		0.0	0.0	0.0	0.0	12.2
ID Fan-ID Fan - South	Leq,D	92.3	9	440.17	-63.9	5.3	-7.5	-0.1		0.0	0.0	0.0	0.0	26.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	438.61	-63.8	5.3	-9.6	-0.1		0.0	0.0	0.0	0.0	23.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	440.57	-63.9	5.0	-8.4	-0.1		0.0	0.3	0.0	0.0	26.9
Motor & Pump P 56A/B	Leq,D	93.7		605.19	-66.6	5.6	-21.8	-2.4	-0.15	0.0	0.0	0.0	0.0	8.3
Motor & Pump P 120/121	Leq,D	96.2	2	636.72	-67.1	5.7	-23.4	-2.2	-0.26	0.0	0.1	0.0	0.0	9.1
Motor & Pump P 211/212	Leq,D	93.7		612.95	-66.7	5.7	-23.3	-2.9	-0.64	0.0	0.0	0.0	0.0	5.7
Motor & Pump P 215/214	Leq,D	94.6		615.21	-66.8	5.7	-21.9	-2.4	-0.64	0.0	0.0	0.0	0.0	8.6
Motor & Pump P 216	Leq,D	98.3		619.26	-66.8	5.6	-21.3	-2.4	-0.78	0.0	0.0	0.0	0.0	12.6
Motor & Pump P 217/218	Leq,D	93.7		613.90	-66.8	5.8	-23.5	-3.0	-0.65	0.0	0.0	0.0	0.0	5.5
Motor & Pump P 300	Leq,D	97.1	2	648.28	-67.2	5.7	-22.4	-2.0	-0.60	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 301	Leq,D	102.1	2	647.50	-67.2	5.7	-22.8	-2.0	-0.60	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 302	Leq,D	97.1	2	649.11	-67.2	5.7	-19.5	-1.8	-0.60	0.0	0.0	0.0	0.0	13.7
Motor & Pump P 303	Leq,D	97.1	2	649.90	-67.2	5.7	-13.7	-1.9	-0.60	0.0	0.2	0.0	0.0	19.5
Motor & Pump P 305	Leq,D	97.5	2	650.60	-67.3	5.7	-23.0	-2.1	-0.26	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 306	Leq,D	112.6	4	654.84	-67.3	5.6	-22.5	-2.1	-0.64	0.0	0.2	0.0	0.0	25.9
Motor & Pump P 307	Leq,D	102.1	2	645.26	-67.2	5.7	-24.3	-2.4	-0.58	0.0	0.6	0.0	0.0	13.9
Motor & Pump P 309	Leq,D	97.5	2	651.30	-67.3	5.7	-23.0	-2.1	-0.26	0.0	0.0	0.0	0.0	10.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 312	Leq,D	101.5	2	635.49	-67.1	5.7	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	18.8
Motor & Pump P 313	Leq,D	101.5	2	634.72	-67.0	5.7	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	18.8
Motor & Pump P 315	Leq,D	102.9	2	632.22	-67.0	5.7	-21.1	-1.8	-0.26	0.0	0.0	0.0	0.0	18.4
Motor & Pump P 316	Leq,D	102.9	2	631.39	-67.0	5.7	-24.0	-2.3	-0.03	0.0	2.1	0.0	0.0	17.4
Motor & Pump P 317	Leq,D	102.9	2	630.48	-67.0	5.7	-24.5	-2.5		0.0	1.3	0.0	0.0	15.8
Motor & Pump P 318	Leq,D	100.2	1	632.60	-67.0	5.8	-20.9	-1.8	-0.25	0.0	0.0	0.0	0.0	15.9
Motor & Pump P 319	Leq,D	100.2	1	633.23	-67.0	5.8	-19.4	-1.8	-0.25	0.0	0.0	0.0	0.0	17.5
Motor & Pump P 327	Leq,D	111.2	3	659.27	-67.4	5.7	-23.8	-3.3	-0.38	0.0	2.6	0.0	0.0	24.6
Motor & Pump P 328	Leq,D	109.9	5	652.02	-67.3	5.6	-23.4	-2.2	-0.60	0.0	0.0	0.0	0.0	22.1
Motor & Pump P 329	Leq,D	110.2	5	653.39	-67.3	5.6	-23.9	-2.4	-0.57	0.0	0.0	0.0	0.0	21.7
Motor & Pump P 451	Leq,D	93.7		587.42	-66.4	5.6	-22.1	-2.4		0.0	3.8	0.0	0.0	12.3
Motor & Pump P 453	Leq,D	93.7		580.30	-66.3	5.6	-23.5	-2.9		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 454	Leq,D	93.7		588.96	-66.4	5.6	-22.0	-2.4		0.0	0.0	0.0	0.0	8.6
Motor & Pump P 457	Leq,D	93.7		579.72	-66.3	5.6	-23.4	-2.8		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 458	Leq,D	93.7		586.36	-66.4	5.6	-22.1	-2.4		0.0	3.9	0.0	0.0	12.2
Motor & Pump P 459	Leq,D	93.7		589.35	-66.4	5.6	-21.9	-2.4		0.0	0.0	0.0	0.0	8.6
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		586.49	-66.4	5.6	-22.8	-2.6	-0.05	0.0	0.0	0.0	0.0	10.0
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		587.24	-66.4	5.6	-22.5	-2.5	-0.13	0.0	1.1	0.0	0.0	11.4
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		594.98	-66.5	5.7	-21.1	-2.3	-0.20	0.0	0.0	0.0	0.0	11.0
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		595.55	-66.5	5.7	-24.0	-3.3	-0.23	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 1601 A	Leq,D	96.3	2	561.54	-66.0	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3
Motor & Pump P 1601 B	Leq,D	96.3	2	560.16	-66.0	5.5	-16.4	-2.1		0.0	0.0	0.0	0.0	17.3
Motor & Pump P 1602 A	Leq,D	96.3	2	559.03	-65.9	5.5	-16.5	-2.1		0.0	0.0	0.0	0.0	17.3
Motor & Pump P 1602 B	Leq,D	96.5	2	557.71	-65.9	5.5	-16.5	-2.1		0.0	0.0	0.0	0.0	17.5
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	578.42	-66.2	5.7	-24.7	-3.7	-0.20	0.0	0.0	0.0	0.0	7.4
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	580.68	-66.3	5.7	-16.2	-2.2	-0.19	0.0	0.0	0.0	0.0	17.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	581.80	-66.3	5.7	-16.2	-2.2	-0.19	0.0	0.0	0.0	0.0	17.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	587.39	-66.4	5.6	-22.3	-2.5	-0.22	0.0	1.2	0.0	0.0	12.2
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	588.19	-66.4	5.6	-24.6	-3.7		0.0	0.0	0.0	0.0	7.7
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	578.17	-66.2	5.7	-23.0	-2.8	-0.03	0.0	0.0	0.0	0.0	9.9
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	580.21	-66.3	5.7	-24.6	-3.6	-0.12	0.0	0.0	0.0	0.0	7.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	583.73	-66.3	5.7	-16.2	-2.2	-0.18	0.0	0.0	0.0	0.0	17.1
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	582.15	-66.3	5.7	-17.9	-2.3	-0.14	0.0	0.0	0.0	0.0	15.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	621.12	-66.9	5.5	-19.2	-1.7	-0.10	0.0	0.0	0.0	0.0	21.8
P-2 A/B	Leq,D	98.5		216.40	-57.7	5.5	-23.9	-0.9		0.0	4.2	0.0	0.0	25.6
P-50 A/B	Leq,D	98.1		259.45	-59.3	5.5	-21.7	-0.8	-0.09	0.0	1.5	0.0	0.0	23.4
P-51 A/B	Leq,D	98.1		257.93	-59.2	5.5	-23.9	-1.1	-0.09	0.0	0.1	0.0	0.0	19.5
P-060 A/B	Leq,D	98.1		263.69	-59.4	5.6	-24.3	-1.2	-0.10	0.0	0.6	0.0	0.0	19.2
P-63	Leq,D	98.5		243.20	-58.7	5.5	-24.7	-1.2		0.0	0.0	0.0	0.0	19.5
P-70 A/B	Leq,D	98.1		261.78	-59.4	5.5	-23.1	-1.0	-0.09	0.0	0.0	0.0	0.0	20.1
P-73 A/B	Leq,D	98.5		220.63	-57.9	5.5	-23.9	-0.9		0.0	4.2	0.0	0.0	25.5
P-251 A/B	Leq,D	98.2		395.75	-62.9	5.7	-19.7	-1.2	-1.62	0.0	0.0	0.0	0.0	18.5
P-252 A/B	Leq,D	98.2		395.79	-62.9	5.7	-19.5	-1.1	-1.64	0.0	0.0	0.0	0.0	18.7
P-253	Leq,D	98.2		388.36	-62.8	5.7	-19.6	-1.1	-1.60	0.0	0.0	0.0	0.0	18.8
P-254 A/B	Leq,D	98.2		384.70	-62.7	5.7	-19.9	-1.1	-1.55	0.0	0.1	0.0	0.0	18.8
P-255 A/B	Leq,D	98.2		388.05	-62.8	5.7	-19.8	-1.1	-1.57	0.0	0.2	0.0	0.0	18.8
P-255 A/B	Leq,D	98.2		402.89	-63.1	5.7	-19.5	-1.2	-1.66	0.0	0.0	0.0	0.0	18.5
P-256 A/B	Leq,D	98.2		392.41	-62.9	5.7	-19.7	-1.1	-1.60	0.0	0.2	0.0	0.0	18.7
P-259 A/B	Leq,D	98.2		399.21	-63.0	5.7	-19.6	-1.2	-1.63	0.0	0.0	0.0	0.0	18.5
P-260	Leq,D	99.1		414.77	-63.3	5.7	-19.2	-1.2	-1.74	0.0	0.3	0.0	0.0	19.6
P-261 A/B	Leq,D	98.0		438.01	-63.8	5.7	-18.7	-1.3	-1.82	0.0	0.0	0.0	0.0	18.1
P-262 A/B	Leq,D	99.1		423.14	-63.5	5.7	-19.0	-1.2	-1.78	0.0	0.4	0.0	0.0	19.6
P-263 A/B	Leq,D	99.4		419.19	-63.4	5.7	-19.1	-1.2	-1.77	0.0	0.3	0.0	0.0	19.9
P-270 A/B	Leq,D	98.5		344.33	-61.7	5.7	-22.2	-1.1	-1.15	0.0	0.0	0.0	0.0	18.0
P-271 A/B	Leq,D	98.2		375.15	-62.5	5.7	-20.1	-1.1	-1.47	0.0	0.2	0.0	0.0	19.0
P-272 A/B	Leq,D	98.2		379.78	-62.6	5.7	-20.0	-1.1	-1.51	0.0	0.1	0.0	0.0	18.9
P-273 A/B	Leq,D	98.5		347.67	-61.8	5.7	-22.0	-1.1	-1.21	0.0	0.0	0.0	0.0	17.9
P-275 A/B/C	Leq,D	98.2		377.53	-62.5	5.7	-21.2	-1.2	-1.23	0.0	0.0	0.0	0.0	17.8
P-305	Leq,D	99.3		314.37	-60.9	5.6	-22.7	-1.1	-0.72	0.0	2.7	0.0	0.0	22.2
P-306	Leq,D	100.8		304.64	-60.7	5.6	-22.9	-1.1	-0.67	0.0	0.0	0.0	0.0	21.1
P-309	Leq,D	99.3		312.02	-60.9	5.6	-22.7	-1.1	-0.71	0.0	2.7	0.0	0.0	22.2
P-328	Leq,D	100.8		298.91	-60.5	5.6	-23.1	-1.1	-0.63	0.0	0.0	0.0	0.0	21.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-329	Leq,D	100.8		301.73	-60.6	5.6	-23.0	-1.1	-0.66	0.0	0.0	0.0	0.0	21.1
P-353	Leq,D	98.5		315.46	-61.0	5.3	-22.0	-1.0	-1.09	0.0	2.6	0.0	0.0	21.3
P-358 A/B	Leq,D	99.4		303.67	-60.6	5.6	-23.7	-1.2	-0.96	0.0	0.1	0.0	0.0	18.6
P-359 A/B	Leq,D	99.4		301.97	-60.6	5.6	-23.8	-1.2	-0.95	0.0	0.1	0.0	0.0	18.5
P-360 A/B	Leq,D	99.4		298.98	-60.5	5.6	-23.8	-1.2	-0.95	0.0	0.0	0.0	0.0	18.6
P-361A	Leq,D	98.1		273.62	-59.7	5.2	-23.4	-1.1	-0.12	0.0	0.0	0.0	0.0	19.0
P-371 A/B	Leq,D	98.0		525.11	-65.4	5.6	-15.6	-1.5		0.0	0.0	0.0	0.0	21.1
P-373 A/B	Leq,D	98.0		508.09	-65.1	5.6	-21.1	-1.5		0.0	0.0	0.0	0.0	15.8
P-374 A/B	Leq,D	98.0		511.57	-65.2	5.6	-20.9	-1.5		0.0	0.0	0.0	0.0	16.1
P-375 A/B	Leq,D	98.0		519.53	-65.3	5.6	-15.9	-1.5		0.0	0.0	0.0	0.0	20.9
P-376	Leq,D	98.0		513.79	-65.2	5.6	-16.1	-1.5		0.0	0.0	0.0	0.0	20.8
P-376 A/B	Leq,D	98.0		504.41	-65.0	5.6	-21.5	-1.5		0.0	0.0	0.0	0.0	15.5
P-377	Leq,D	98.0		515.87	-65.2	5.6	-16.0	-1.5		0.0	0.0	0.0	0.0	20.9
P-1101 A	Leq,D	98.9		232.33	-58.3	5.1	-24.0	-1.0		0.0	0.0	0.0	0.0	20.7
P-1103	Leq,D	98.9		233.70	-58.4	5.1	-23.9	-1.0		0.0	0.0	0.0	0.0	20.8
P-1105 A/B/C	Leq,D	98.9		227.29	-58.1	5.1	-24.2	-1.0		0.0	0.0	0.0	0.0	20.7
P-1800	Leq,D	98.9		187.94	-56.5	5.4	-24.7	-0.9		0.0	0.0	0.0	0.0	22.1
P-1801	Leq,D	98.9		142.61	-54.1	5.2	-9.3	-0.5		0.0	5.0	0.0	0.0	45.2
P-1802	Leq,D	98.9		143.72	-54.1	5.2	-9.5	-0.5		0.0	4.3	0.0	0.0	44.2
P-1803	Leq,D	99.1		269.88	-59.6	5.6	-23.2	-1.0		0.0	0.0	0.0	0.0	20.8
P-1804	Leq,D	99.1		250.56	-59.0	5.5	-24.4	-1.1		0.0	1.1	0.0	0.0	21.2
P-1805	Leq,D	99.1		247.86	-58.9	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.6
P-1806	Leq,D	99.1		290.74	-60.3	5.6	-23.0	-1.1	-0.35	0.0	1.0	0.0	0.0	21.0
P-1809 A	Leq,D	98.9		177.96	-56.0	5.3	-24.7	-0.9		0.0	2.2	0.0	0.0	24.8
P-1810 A/B/C	Leq,D	99.0		252.01	-59.0	5.5	-24.2	-1.1		0.0	2.4	0.0	0.0	22.7
P-1811 A/B	Leq,D	99.1		284.70	-60.1	5.6	-23.1	-1.1	-0.22	0.0	0.0	0.0	0.0	20.3
P-1811 A/B	Leq,D	99.1		244.49	-58.8	5.5	-24.1	-1.1		0.0	0.3	0.0	0.0	21.0
P-1847 A/B	Leq,D	99.4		317.29	-61.0	5.6	-23.7	-1.2		0.0	0.0	0.0	0.0	19.1
P-1849 A/B	Leq,D	99.4		312.37	-60.9	5.6	-24.1	-1.3		0.0	0.0	0.0	0.0	18.8
P-1853	Leq,D	99.1		363.22	-62.2	5.7	-21.4	-1.1	-0.56	0.0	0.0	0.0	0.0	19.5
Piping Furnace Tanks	Leq,D	87.1	72	472.87	-64.5	4.5	-20.2	-4.8		0.0	0.9	0.0	0.0	2.9
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	476.10	-64.5	4.6	-20.7	-4.8		0.0	0.5	0.0	0.0	13.5
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	515.44	-65.2	5.1	-24.5	-3.8		0.0	0.5	0.0	0.0	26.7
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	512.29	-65.2	5.1	-24.8	-9.1		0.0	0.4	0.0	0.0	21.6
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	239.39	-58.6	3.7	-16.6	-0.8		0.0	0.0	0.0	0.0	38.2
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	269.92	-59.6	3.7	-22.8	-1.1		0.0	0.7	0.0	0.0	32.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	282.08	-60.0	3.8	-23.7	-1.2		0.0	0.2	0.0	0.0	23.1
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	239.46	-58.6	3.6	-19.6	-0.8		0.0	0.2	0.0	0.0	36.0
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	270.12	-59.6	3.7	-21.8	-1.0		0.0	0.1	0.0	0.0	25.4
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	282.08	-60.0	3.7	-23.9	-1.2		0.0	0.2	0.0	0.0	22.5
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	279.23	-59.9	3.7	-22.6	-1.1		0.0	0.0	0.0	0.0	26.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	261.72	-59.3	3.7	-22.4	-1.0		0.0	0.2	0.0	0.0	27.2
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	255.82	-59.2	3.0	-17.0	-0.8		0.0	0.0	0.0	0.0	39.2
PSA Pipe 3" Lagging	Leq,D	80.6	11	500.14	-65.0	3.7	-15.6	-2.9		0.0	0.0	0.0	0.0	0.8
PSA Skid Additional Piping w NC	Leq,D	116.6	57	518.07	-65.3	5.1	-24.6	-3.8		0.0	0.6	0.0	0.0	28.6
Reformer-Burner Reformer East	Leq,D	97.3	269	471.80	-64.5	3.8	-22.5	-2.1		0.0	0.3	0.0	0.0	15.3
Reformer-Burner Reformer North	Leq,D	95.9	192	476.04	-64.5	3.8	-23.4	-2.3		0.0	0.0	0.0	0.0	9.4
Reformer-Burner Reformer South	Leq,D	95.8	191	460.06	-64.2	3.8	-17.8	-1.6		0.0	1.2	0.0	0.0	20.0
Reformer-Burner Reformer West	Leq,D	97.3	268	464.39	-64.3	3.8	-14.4	-1.5		0.0	0.0	0.0	0.0	23.9
RFG A from battery to process	Leq,D	99.4	87	470.42	-64.4	4.6	-20.8	-4.8		0.0	0.4	0.0	0.0	14.4
RFG A from battery to process w NC	Leq,D	115.2	42	513.73	-65.2	5.1	-24.7	-8.6		0.0	0.5	0.0	0.0	22.4
Stack Noise	Leq,D	108.4		437.67	-63.8	3.0	-2.7	-1.6		-5.8	0.0	0.0	0.0	37.5
Steam Turbine-Facade 01	Leq,D	99.6	29	512.84	-65.2	5.4	-19.4	-2.6		0.0	0.5	0.0	0.0	18.2
Steam Turbine-Facade 02	Leq,D	96.2	13	510.21	-65.1	5.4	-19.4	-2.6		0.0	2.1	0.0	0.0	16.6
Steam Turbine-Facade 03	Leq,D	99.6	29	514.61	-65.2	5.4	-24.3	-5.4		0.0	8.3	0.0	0.0	18.3
Steam Turbine-Facade 04	Leq,D	96.2	13	517.26	-65.3	5.4	-24.3	-5.4		0.0	5.3	0.0	0.0	12.0
Steam Turbine-Roof 01	Leq,D	99.7	30	513.79	-65.2	5.1	-18.9	-2.7		0.0	3.0	0.0	0.0	21.0
Tank Farm Pump 1	Leq,D	99.0	3	341.07	-61.6	5.4	-23.4	-1.8		0.0	0.6	0.0	0.0	18.2
Tank Farm Pump 2	Leq,D	99.0	3	325.86	-61.3	5.4	-23.9	-1.9		0.0	0.0	0.0	0.0	17.3
Tank Farm Pump 3	Leq,D	99.0	3	321.59	-61.1	5.4	-24.1	-2.0		0.0	0.0	0.0	0.0	17.1
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	700.13	-67.9	5.1	-14.6	-1.9	0.00	0.0	0.0	-11.8	0.0	21.4
XF-1502 Splitter Area 1	Leq,D	104.5		580.58	-66.3	4.3	-13.0	-2.0	-0.06	-2.9	0.0	0.0	0.0	24.6
XF-1502 Splitter Area 2	Leq,D	104.5		578.86	-66.2	4.3	-13.0	-2.0	-0.05	-2.9	0.0	0.0	0.0	24.6
XF-1504 Splitter Area 1	Leq,D	104.5		576.67	-66.2	4.3	-13.1	-2.0	-0.02	-2.9	0.0	0.0	0.0	24.6
XF-1504 Splitter Area 2	Leq,D	104.5		574.94	-66.2	4.3	-13.1	-1.9	-0.02	-2.9	0.0	0.0	0.0	24.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 251, 250, 271, 270	Leq,D	101.1	128	376.75	-62.5	3.8	-13.2	-0.5	0.00	-1.3	0.0	0.0	0.0	27.3	
XF 260, 261A, 261 B	Leq,D	99.9	97	426.50	-63.6	4.0	-12.7	-0.6	0.00	-1.3	0.0	0.0	0.0	25.7	
XF 304, XF 321	Leq,D	110.5	56	652.47	-67.3	4.5	-14.9	-1.0	-0.04	-1.5	0.0	0.0	0.0	30.3	
XF 313, XF 314	Leq,D	113.0	18	666.89	-67.5	4.8	-12.7	-1.5	-0.02	-2.6	0.0	0.0	0.0	33.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	657.96	-67.4	4.5	-14.8	-1.3	-0.04	-1.7	0.0	0.0	0.0	32.8	
XF 353A/B	Leq,D	95.4	35	294.25	-60.4	3.2	-13.2	-0.4	-0.01	-1.4	0.1	0.0	0.0	23.3	
XF 353A/B	Leq,D	95.4	35	313.41	-60.9	3.3	-7.5	-0.7	0.00	-2.2	0.0	0.0	0.0	27.4	
XF 354A/B	Leq,D	95.4	35	315.72	-61.0	3.3	-15.9	-0.4	0.00	-1.4	0.0	0.0	0.0	20.1	
XF 503	Leq,D	113.0	21	614.23	-66.8	4.8	-11.4	-1.5	-0.47	-2.8	0.0	0.0	0.0	34.9	
XF - 1601	Leq,D	96.6		559.20	-65.9	3.4	-9.1	-1.0		-1.2	0.0	0.0	0.0	22.7	
XF - 1602	Leq,D	96.6		553.97	-65.9	3.3	-9.3	-0.9		-1.2	0.0	0.0	0.0	22.6	
XF Module 1510	Leq,D	108.3		582.32	-66.3	4.4	-21.2	-2.3	-0.02	-2.9	0.0	0.0	0.0	20.1	
XF Module 1519	Leq,D	109.0		584.74	-66.3	4.4	-13.2	-2.0	-0.25	-2.9	0.0	0.0	0.0	28.9	
xxxx xxxx xxxx xxxx	Leq,D		228								6.6			26.7	
xxxx xxxx xxxx xxxx	Leq,D		520								3.5			45.3	
xxxx xxxx xxxx xxxx	Leq,D		1341								2.2			60.3	
xxxx xxxx xxxx xxxx	Leq,D		450								4.4			28.5	
Receiver S-2 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)	Leq,D 57.0 dB(A)		Ld 7-19 dB(A)		Leq,N 57.0 dB(A)		Le 19-22 dB(A)		CNEL 63.7 dB(A)		Lmax day hr dB(A)		Ld 7-19	
ID Fan Motor	Leq,D	104.4	2	379.94	-62.6	5.2	-24.8	-2.8		0.0	1.3	0.0	0.0	20.7	
18-1855 A/B	Leq,D	98.8		329.47	-61.3	5.4	-23.7	-1.3	-0.20	0.0	0.0	0.0	0.0	17.7	
18-1856 A/B	Leq,D	98.8		323.51	-61.2	5.4	-23.4	-1.2	-0.25	0.0	0.1	0.0	0.0	18.2	
18-1857 A/B	Leq,D	98.8		335.28	-61.5	5.4	-23.7	-1.3	-0.20	0.0	0.0	0.0	0.0	17.6	
18-1858 A/B	Leq,D	98.8		339.28	-61.6	5.3	-23.6	-1.3	-0.13	0.0	0.0	0.0	0.0	17.4	
18-PK 1802 Air Compressor Package	Leq,D	103.1		310.65	-60.8	5.6	-21.6	-0.6	-0.58	0.0	0.0	0.0	0.0	25.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	416.02	-63.4	5.4	-19.6	-1.1	0.00	0.0	0.0	-2.7	0.0	27.6	
Air Compressor C 1	Leq,D	110.0	5	572.66	-66.2	5.7	-23.7	-1.7	-0.37	0.0	4.3	0.0	0.0	28.1	
Air Compressor Pump	Leq,D	100.3		390.67	-62.8	5.4	-24.6	-3.8	-0.09	0.0	0.0	0.0	0.0	14.3	
Blower F 401	Leq,D	113.0		510.08	-65.1	5.4	-21.6	-0.7	-0.35	0.0	0.0	0.0	0.0	30.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	210.40	-57.5	4.7	-24.3	-0.8		0.0	0.0	0.0	0.0	20.8	
Boiler Feed Water Pump A	Leq,D	97.1	3	337.42	-61.6	5.3	-23.4	-1.4		0.0	0.0	0.0	0.0	16.2	
Boiler Feed Water Pump B	Leq,D	97.1	3	335.33	-61.5	5.3	-23.4	-1.4		0.0	0.0	0.0	0.0	16.2	
C370 A Motor	Leq,D	103.6	3	410.68	-63.3	4.9	-23.6	-1.8	-0.76	0.0	0.0	0.0	0.0	19.2	
C370 B Motor	Leq,D	108.6	3	401.45	-63.1	4.9	-23.7	-1.8	-1.35	0.0	0.0	0.0	0.0	23.6	
C370A	Leq,D	103.8	5	412.76	-63.3	5.0	-23.5	-1.8		0.0	0.0	0.0	0.0	20.2	
C370B	Leq,D	103.8	5	403.58	-63.1	5.0	-23.3	-1.7	-0.83	0.0	0.0	0.0	0.0	19.8	
C-270 A	Leq,D	106.3	6	257.88	-59.2	4.5	-23.6	-1.3	-0.79	0.0	0.0	0.0	0.0	25.8	
C-270 B	Leq,D	106.3	6	262.36	-59.4	4.5	-23.7	-1.3	-0.82	0.0	0.0	0.0	0.0	25.6	
C-270 C	Leq,D	106.3	6	266.80	-59.5	4.5	-23.4	-1.3	-0.73	0.0	0.1	0.0	0.0	26.0	
C-301 Compressor	Leq,D	106.8	3	255.04	-59.1	4.5	-23.5	-1.3	-0.67	0.0	0.0	0.0	0.0	26.8	
C-301 Motor	Leq,D	106.8	4	258.32	-59.2	4.5	-24.3	-2.2	-0.86	0.0	0.0	0.0	0.0	24.6	
C-351 Compressor	Leq,D	106.8	4	243.59	-58.7	4.4	-23.1	-1.2	-0.80	0.0	0.0	0.0	0.0	27.5	
C-351 Motor	Leq,D	106.8	5	241.46	-58.6	4.0	-24.1	-2.0	-0.75	0.0	0.0	0.0	0.0	25.3	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	429.80	-63.7	5.5	-17.4	-0.5	0.00	0.0	0.0	-33.5	0.0	25.1	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	554.08	-65.9	5.3	-22.9	-1.4	-0.79	0.8	0.5	0.0	0.0	20.4	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	552.74	-65.8	5.3	-22.2	-1.6	-0.81	0.0	0.0	0.0	0.0	15.3	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	564.40	-66.0	5.3	-23.7	-1.7	-0.77	-6.3	0.0	0.0	0.0	13.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	561.78	-66.0	5.3	-23.5	-1.6	-0.76	3.7	0.0	0.0	0.0	27.8	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	553.32	-65.9	5.3	-23.2	-1.5	-0.79	3.6	2.9	0.0	0.0	24.2	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	572.84	-66.2	5.3	-23.8	-2.1	-0.82	-7.8	0.0	0.0	0.0	5.0	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	490.94	-64.8	5.3	-22.5	-1.5		1.2	0.0	0.0	0.0	15.5	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	501.69	-65.0	5.2	-23.7	-1.9		-7.8	0.0	0.0	0.0	4.6	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	469.10	-64.4	5.0	-20.3	-1.1		1.4	0.0	0.0	0.0	21.1	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	484.56	-64.7	5.1	-23.4	-1.8		-7.8	4.7	0.0	0.0	12.8	
Cooling Tower M 512	Leq,D	95.7		493.21	-64.9	5.5	-23.0	-1.8		0.0	2.3	0.0	0.0	13.9	
Cooling Tower M 513	Leq,D	95.7		494.41	-64.9	5.5	-23.0	-1.8		0.0	2.4	0.0	0.0	13.9	
Cooling Tower M 514	Leq,D	95.7		491.83	-64.8	5.5	-23.0	-1.8		0.0	0.0	0.0	0.0	11.5	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	360.82	-62.1	3.9	-20.2	-0.6		-1.4	0.0	0.0	0.0	15.3	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	394.03	-62.9	5.1	-16.6	-0.1		0.0	0.1	0.0	0.0	20.9	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	396.46	-63.0	5.1	-18.1	-0.1		0.0	2.4	0.0	0.0	19.5	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	394.98	-62.9	4.6	-15.6	-0.1	0.00	0.0	0.0	0.0	0.0	19.5	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	393.49	-62.9	5.1	-16.8	-0.1	0.00	0.0	1.0	0.0	0.0	19.5	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	395.91	-62.9	5.1	-18.1	-0.1	0.00	0.0	1.1	0.0	0.0	20.4	
FD Motor	Leq,D	103.3	2	393.21	-62.9	5.2	-24.5	-3.0		0.0	2.3	0.0	0.0	20.4	

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Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor -B Motor	Leq,D	103.8	5	368.65	-62.3	4.8	-24.5	-2.9	-1.31	0.0	0.0	0.0	0.0	17.6
Feed Compressor-A Compressor	Leq,D	104.0	5	383.69	-62.7	5.0	-23.3	-1.6		0.0	0.1	0.0	0.0	21.4
Feed Compressor-A Motor	Leq,D	103.8	6	380.88	-62.6	4.9	-24.2	-2.8	-0.48	0.0	0.0	0.0	0.0	18.6
Feed Compressor-B Compressor	Leq,D	104.0	7	371.80	-62.4	5.0	-23.4	-1.6	-0.63	0.0	0.0	0.0	0.0	20.9
H2S Compressor 18-C-271	Leq,D	105.3	6	553.52	-65.9	5.5	-23.3	-2.1	-0.22	0.0	0.0	0.0	0.0	19.3
Heater # 5-Heater	Leq,D	91.1	13	212.98	-57.6	4.8	-22.0	-0.6		0.0	0.0	0.0	0.0	18.8
Heater # 5-Heater	Leq,D	91.1	13	217.95	-57.8	4.8	-21.8	-0.6		0.0	0.0	0.0	0.0	18.8
Heater # 5-Heater	Leq,D	91.1	13	208.13	-57.4	4.8	-22.1	-0.6		0.0	0.0	0.0	0.0	18.8
Hydro Heater H-402	Leq,D	98.1		516.95	-65.3	5.6	-23.8	-1.5		0.0	0.0	0.0	0.0	13.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	377.83	-62.5	5.2	-17.1	-0.1		0.0	0.0	0.0	0.0	12.5
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	376.17	-62.5	5.2	-15.6	-0.1		0.0	0.4	0.0	0.0	14.7
ID Fan-ID Fan - North	Leq,D	92.2	8	379.15	-62.6	5.2	-17.8	-0.1		0.0	0.2	0.0	0.0	17.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	376.70	-62.5	5.2	-20.9	-0.1		0.0	0.0	0.0	0.0	13.1
ID Fan-ID Fan - South	Leq,D	92.3	9	376.89	-62.5	5.2	-15.7	-0.1		0.0	0.0	0.0	0.0	19.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	375.63	-62.5	5.2	-15.7	-0.1		0.0	0.0	0.0	0.0	18.3
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	377.54	-62.5	4.9	-15.5	-0.1		0.0	0.1	0.0	0.0	20.8
Motor & Pump P 56A/B	Leq,D	93.7		531.61	-65.5	5.6	-24.1	-3.0	-0.16	0.0	1.4	0.0	0.0	7.8
Motor & Pump P 120/121	Leq,D	96.2	2	565.39	-66.0	5.6	-23.8	-2.0	-0.62	0.0	1.2	0.0	0.0	10.5
Motor & Pump P 211/212	Leq,D	93.7		537.45	-65.6	5.6	-23.9	-3.0	-0.63	0.0	0.0	0.0	0.0	6.2
Motor & Pump P 215/214	Leq,D	94.6		539.98	-65.6	5.6	-24.0	-3.0	-0.64	0.0	0.0	0.0	0.0	7.1
Motor & Pump P 216	Leq,D	98.3		543.63	-65.7	5.6	-23.8	-2.9	-0.79	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 217/218	Leq,D	93.7		538.50	-65.6	5.7	-24.3	-3.2	-0.65	0.0	0.0	0.0	0.0	5.5
Motor & Pump P 300	Leq,D	97.1	2	576.68	-66.2	5.7	-24.3	-2.2	-0.60	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 301	Leq,D	102.1	2	575.79	-66.2	5.7	-24.4	-2.2	-0.60	0.0	0.0	0.0	0.0	14.4
Motor & Pump P 302	Leq,D	97.1	2	577.62	-66.2	5.7	-24.2	-2.2	-0.61	0.0	0.0	0.0	0.0	9.5
Motor & Pump P 303	Leq,D	97.1	2	578.49	-66.2	5.6	-23.7	-2.0	-0.62	0.0	0.0	0.0	0.0	10.1
Motor & Pump P 305	Leq,D	97.5	2	579.27	-66.2	5.6	-23.7	-2.0	-0.62	0.0	0.0	0.0	0.0	10.5
Motor & Pump P 306	Leq,D	112.6	4	584.05	-66.3	5.6	-24.4	-2.8	-0.27	0.0	0.3	0.0	0.0	24.7
Motor & Pump P 307	Leq,D	102.1	2	573.27	-66.2	5.7	-24.6	-2.3	-0.52	0.0	1.0	0.0	0.0	15.2
Motor & Pump P 309	Leq,D	97.5	2	580.06	-66.3	5.6	-23.6	-2.0	-0.62	0.0	0.0	0.0	0.0	10.6
Motor & Pump P 312	Leq,D	101.5	2	562.24	-66.0	5.7	-23.6	-2.0	-0.26	0.0	0.0	0.0	0.0	15.4
Motor & Pump P 313	Leq,D	101.5	2	561.37	-66.0	5.7	-21.8	-1.7	-0.26	0.0	0.0	0.0	0.0	17.5
Motor & Pump P 315	Leq,D	102.9	2	558.50	-65.9	5.7	-24.5	-2.3		0.0	0.0	0.0	0.0	15.9
Motor & Pump P 316	Leq,D	102.9	2	557.56	-65.9	5.7	-24.6	-2.3		0.0	0.1	0.0	0.0	15.8
Motor & Pump P 317	Leq,D	102.9	2	556.54	-65.9	5.6	-24.6	-2.3		0.0	0.9	0.0	0.0	16.6
Motor & Pump P 318	Leq,D	100.2	1	559.01	-65.9	5.7	-24.0	-2.1	-0.26	0.0	0.0	0.0	0.0	13.7
Motor & Pump P 319	Leq,D	100.2	1	559.72	-66.0	5.7	-23.9	-2.0	-0.26	0.0	0.0	0.0	0.0	13.8
Motor & Pump P 327	Leq,D	111.2	3	588.93	-66.4	5.7	-24.7	-3.5	-0.50	0.0	2.9	0.0	0.0	24.7
Motor & Pump P 328	Leq,D	109.9	5	580.89	-66.3	5.6	-23.2	-2.0	-0.62	0.0	0.0	0.0	0.0	23.4
Motor & Pump P 329	Leq,D	110.2	5	582.43	-66.3	5.6	-24.4	-2.3	-0.52	0.0	0.1	0.0	0.0	22.3
Motor & Pump P 451	Leq,D	93.7		512.77	-65.2	5.6	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 453	Leq,D	93.7		505.05	-65.1	5.5	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 454	Leq,D	93.7		514.29	-65.2	5.6	-24.2	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 457	Leq,D	93.7		504.39	-65.0	5.5	-24.3	-3.0		0.0	0.0	0.0	0.0	6.8
Motor & Pump P 458	Leq,D	93.7		511.74	-65.2	5.6	-24.3	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 459	Leq,D	93.7		514.74	-65.2	5.6	-24.2	-3.1		0.0	0.0	0.0	0.0	6.7
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		514.03	-65.2	5.6	-24.3	-3.1	-0.03	0.0	1.0	0.0	0.0	10.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		514.88	-65.2	5.6	-24.3	-3.1	-0.10	0.0	1.4	0.0	0.0	10.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		525.13	-65.4	5.6	-24.1	-3.0	-0.21	0.0	0.0	0.0	0.0	8.3
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		525.78	-65.4	5.6	-24.1	-3.0	-0.21	0.0	0.0	0.0	0.0	8.3
Motor & Pump P 1601 A	Leq,D	96.3	2	490.14	-64.8	5.5	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6
Motor & Pump P 1601 B	Leq,D	96.3	2	488.83	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6
Motor & Pump P 1602 A	Leq,D	96.3	2	487.73	-64.8	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.6
Motor & Pump P 1602 B	Leq,D	96.5	2	486.46	-64.7	5.4	-23.0	-2.3		0.0	0.0	0.0	0.0	11.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	506.31	-65.1	5.6	-24.8	-3.4	-0.20	0.0	0.0	0.0	0.0	8.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	508.89	-65.1	5.6	-24.3	-3.0	-0.20	0.0	0.0	0.0	0.0	9.6
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	510.17	-65.1	5.6	-24.0	-2.9	-0.20	0.0	0.0	0.0	0.0	9.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	515.14	-65.2	5.6	-24.3	-3.1	-0.18	0.0	1.4	0.0	0.0	10.9
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	516.06	-65.2	5.6	-24.3	-3.1	-0.25	0.0	0.6	0.0	0.0	10.1
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	507.14	-65.1	5.6	-24.8	-3.4	-0.04	0.0	0.0	0.0	0.0	8.6
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	509.08	-65.1	5.6	-23.5	-2.6	-0.09	0.0	0.0	0.0	0.0	10.6
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	512.44	-65.2	5.6	-22.9	-2.4	-0.19	0.0	0.0	0.0	0.0	11.2
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	510.93	-65.2	5.6	-22.9	-2.4	-0.14	0.0	0.0	0.0	0.0	11.3

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	551.56	-65.8	5.5	-23.4	-2.1	-0.19	0.0	0.0	0.0	0.0	18.1
P-2 A/B	Leq,D	98.5		142.96	-54.1	5.2	-24.6	-0.7		0.0	0.9	0.0	0.0	25.2
P-50 A/B	Leq,D	98.1		186.65	-56.4	5.4	-24.5	-0.9	-0.10	0.0	0.0	0.0	0.0	21.5
P-51 A/B	Leq,D	98.1		184.48	-56.3	5.4	-24.6	-0.9	-0.10	0.0	1.3	0.0	0.0	22.8
P-060 A/B	Leq,D	98.1		192.52	-56.7	5.4	-24.3	-0.9	-0.10	0.0	0.0	0.0	0.0	21.5
P-63	Leq,D	98.5		166.13	-55.4	5.3	-24.8	-0.9		0.0	0.8	0.0	0.0	23.6
P-70 A/B	Leq,D	98.1		189.87	-56.6	5.4	-24.3	-0.9	-0.10	0.0	0.0	0.0	0.0	21.7
P-73 A/B	Leq,D	98.5		146.78	-54.3	5.2	-24.6	-0.7		0.0	0.8	0.0	0.0	24.8
P-251 A/B	Leq,D	98.2		318.81	-61.1	5.6	-23.6	-1.2	-1.21	0.0	0.0	0.0	0.0	16.8
P-252 A/B	Leq,D	98.2		319.84	-61.1	5.6	-23.8	-1.2	-1.38	0.0	0.0	0.0	0.0	16.3
P-253	Leq,D	98.2		312.69	-60.9	5.6	-23.7	-1.2	-1.34	0.0	0.0	0.0	0.0	16.7
P-254 A/B	Leq,D	98.2		308.13	-60.8	5.6	-23.7	-1.2	-1.28	0.0	0.0	0.0	0.0	16.9
P-255 A/B	Leq,D	98.2		311.37	-60.9	5.6	-23.6	-1.2	-1.30	0.0	0.0	0.0	0.0	16.8
P-255 A/B	Leq,D	98.2		325.75	-61.2	5.6	-23.5	-1.2	-0.97	0.0	0.0	0.0	0.0	16.9
P-256 A/B	Leq,D	98.2		315.59	-61.0	5.6	-23.6	-1.2	-1.28	0.0	0.0	0.0	0.0	16.7
P-259 A/B	Leq,D	98.2		322.18	-61.2	5.6	-23.5	-1.2	-1.09	0.0	0.0	0.0	0.0	16.8
P-260	Leq,D	99.1		338.20	-61.6	5.7	-23.4	-1.3	-1.49	0.0	0.0	0.0	0.0	17.0
P-261 A/B	Leq,D	98.0		360.77	-62.1	5.7	-23.1	-1.3	-1.30	0.0	0.0	0.0	0.0	15.8
P-262 A/B	Leq,D	99.1		346.32	-61.8	5.7	-23.3	-1.3	-1.55	0.0	0.0	0.0	0.0	16.9
P-263 A/B	Leq,D	99.4		342.50	-61.7	5.7	-23.4	-1.3	-1.52	0.0	0.0	0.0	0.0	17.2
P-270 A/B	Leq,D	98.5		269.67	-59.6	5.6	-23.8	-1.1	-1.51	0.0	0.0	0.0	0.0	18.0
P-271 A/B	Leq,D	98.2		298.92	-60.5	5.6	-23.8	-1.2	-1.21	0.0	0.0	0.0	0.0	17.1
P-272 A/B	Leq,D	98.2		303.38	-60.6	5.6	-23.8	-1.2	-1.24	0.0	0.0	0.0	0.0	17.0
P-273 A/B	Leq,D	98.5		272.84	-59.7	5.6	-23.9	-1.1	-1.52	0.0	0.0	0.0	0.0	17.8
P-275 A/B/C	Leq,D	98.2		302.34	-60.6	5.6	-23.8	-1.2	-1.27	0.0	0.0	0.0	0.0	16.9
P-305	Leq,D	99.3		234.78	-58.4	5.5	-23.7	-0.9	-0.53	0.0	0.0	0.0	0.0	21.3
P-306	Leq,D	100.8		225.25	-58.0	5.5	-23.8	-0.9	-0.49	0.0	0.0	0.0	0.0	23.0
P-309	Leq,D	99.3		232.48	-58.3	5.5	-23.7	-0.9	-0.53	0.0	0.0	0.0	0.0	21.3
P-328	Leq,D	100.8		219.64	-57.8	5.5	-23.9	-0.9	-0.46	0.0	0.0	0.0	0.0	23.1
P-329	Leq,D	100.8		222.40	-57.9	5.5	-23.9	-0.9	-0.48	0.0	0.0	0.0	0.0	23.1
P-353	Leq,D	98.5		237.10	-58.5	5.1	-23.3	-0.9	-1.03	0.0	2.2	0.0	0.0	22.0
P-358 A/B	Leq,D	99.4		228.63	-58.2	5.5	-24.5	-1.1	-1.00	0.0	0.0	0.0	0.0	20.2
P-359 A/B	Leq,D	99.4		226.38	-58.1	5.5	-24.5	-1.1	-0.99	0.0	0.0	0.0	0.0	20.3
P-360 A/B	Leq,D	99.4		222.34	-57.9	5.5	-24.2	-1.0	-0.79	0.0	0.0	0.0	0.0	20.9
P-361A	Leq,D	98.1		205.77	-57.3	5.0	-24.4	-1.0	-0.13	0.0	0.0	0.0	0.0	20.4
P-371 A/B	Leq,D	98.0		451.56	-64.1	5.5	-22.5	-1.5		0.0	0.0	0.0	0.0	15.5
P-373 A/B	Leq,D	98.0		435.31	-63.8	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.6
P-374 A/B	Leq,D	98.0		438.65	-63.8	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.6
P-375 A/B	Leq,D	98.0		446.30	-64.0	5.5	-22.6	-1.5		0.0	0.0	0.0	0.0	15.5
P-376	Leq,D	98.0		440.77	-63.9	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.5
P-376 A/B	Leq,D	98.0		431.80	-63.7	5.5	-24.0	-1.7	-1.83	0.0	0.0	0.0	0.0	12.3
P-377	Leq,D	98.0		442.78	-63.9	5.5	-22.7	-1.4		0.0	0.0	0.0	0.0	15.5
P-1101 A	Leq,D	98.9		161.62	-55.2	4.7	-24.5	-0.8		0.0	0.0	0.0	0.0	23.1
P-1103	Leq,D	98.9		162.84	-55.2	4.7	-24.5	-0.8		0.0	0.0	0.0	0.0	23.1
P-1105 A/B/C	Leq,D	98.9		157.26	-54.9	4.7	-24.6	-0.8		0.0	0.1	0.0	0.0	23.4
P-1800	Leq,D	98.9		112.01	-52.0	4.9	-24.8	-0.6		0.0	0.0	0.0	0.0	26.5
P-1801	Leq,D	98.9		75.81	-48.6	4.4	-11.5	-0.3		0.0	3.1	0.0	0.0	46.1
P-1802	Leq,D	98.9		77.82	-48.8	4.5	-11.5	-0.3		0.0	2.2	0.0	0.0	45.0
P-1803	Leq,D	99.1		205.28	-57.2	5.4	-24.5	-1.0		0.0	0.0	0.0	0.0	21.8
P-1804	Leq,D	99.1		185.01	-56.3	5.4	-24.7	-0.9		0.0	2.3	0.0	0.0	24.8
P-1805	Leq,D	99.1		182.78	-56.2	5.4	-24.7	-0.9		0.0	3.0	0.0	0.0	25.6
P-1806	Leq,D	99.1		223.24	-58.0	5.5	-24.4	-1.0	-0.38	0.0	2.1	0.0	0.0	23.0
P-1809 A	Leq,D	98.9		104.42	-51.4	4.9	-24.8	-0.6		0.0	0.1	0.0	0.0	27.1
P-1810 A/B/C	Leq,D	99.0		189.51	-56.5	5.4	-24.6	-0.9		0.0	1.9	0.0	0.0	24.2
P-1811 A/B	Leq,D	99.1		217.93	-57.8	5.5	-24.5	-1.0	-0.27	0.0	0.0	0.0	0.0	21.0
P-1811 A/B	Leq,D	99.1		179.98	-56.1	5.3	-24.7	-0.9		0.0	1.4	0.0	0.0	24.2
P-1847 A/B	Leq,D	99.4		262.08	-59.4	5.6	-24.1	-1.1		0.0	0.0	0.0	0.0	20.3
P-1849 A/B	Leq,D	99.4		258.23	-59.2	5.5	-24.1	-1.1		0.0	0.0	0.0	0.0	20.5
P-1853	Leq,D	99.1		283.81	-60.1	5.6	-23.0	-1.0	-0.51	0.0	0.0	0.0	0.0	20.1
Piping Furnace Tanks	Leq,D	87.1	72	405.52	-63.2	4.2	-24.2	-7.4		0.0	1.0	0.0	0.0	-2.5
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	406.32	-63.2	4.4	-24.0	-7.0	0.00	0.0	0.4	0.0	0.0	9.1
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	446.62	-64.0	5.0	-24.9	-3.6	-0.07	0.0	0.5	0.0	0.0	27.5
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	443.50	-63.9	5.0	-24.9	-9.4	-0.10	0.0	0.4	0.0	0.0	22.2
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	200.64	-57.0	3.5	-23.2	-0.8		0.0	0.8	0.0	0.0	33.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	228.72	-58.2	3.5	-24.3	-1.0		0.0	0.6	0.0	0.0	31.8
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	232.90	-58.3	3.6	-24.3	-1.1		0.0	0.3	0.0	0.0	24.2
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	191.80	-56.6	3.4	-14.7	-0.8		0.0	0.0	0.0	0.0	42.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	218.24	-57.8	3.5	-23.9	-1.0		0.0	0.1	0.0	0.0	25.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	234.55	-58.4	3.6	-24.3	-1.1		0.0	0.1	0.0	0.0	23.6	
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	227.73	-58.1	3.5	-24.1	-1.0		0.0	0.0	0.0	0.0	26.9	
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	209.39	-57.4	3.3	-24.0	-1.0		0.0	0.4	0.0	0.0	27.5	
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	210.81	-57.5	3.0	-17.4	-0.7		0.0	0.1	0.0	0.0	40.6	
PSA Pipe 3" Lagging	Leq,D	80.6	11	432.28	-63.7	3.5	-23.7	-3.2		0.0	0.0	0.0	0.0	-6.5	
PSA Skid Additional Piping w NC	Leq,D	116.6	57	449.10	-64.0	5.0	-24.9	-3.7	-0.05	0.0	0.6	0.0	0.0	29.6	
Reformer-Burner Reformer East	Leq,D	97.3	269	406.87	-63.2	3.4	-24.6	-2.3		0.0	0.9	0.0	0.0	14.5	
Reformer-Burner Reformer North	Leq,D	95.9	192	409.81	-63.2	3.5	-23.9	-2.2		0.0	0.0	0.0	0.0	10.1	
Reformer-Burner Reformer South	Leq,D	95.8	191	395.15	-62.9	3.6	-23.6	-2.0	-0.04	0.0	0.8	0.0	0.0	14.4	
Reformer-Burner Reformer West	Leq,D	97.3	268	398.19	-63.0	3.6	-23.0	-1.9		0.0	0.1	0.0	0.0	16.1	
RFG A from battery to process	Leq,D	99.4	87	400.93	-63.1	4.4	-24.0	-7.0		0.0	0.3	0.0	0.0	10.0	
RFG A from battery to process w NC	Leq,D	115.2	42	445.16	-64.0	5.0	-24.9	-9.3	-0.13	0.0	0.7	0.0	0.0	22.5	
Stack Noise	Leq,D	108.4		375.24	-62.5	3.0	-17.6	-0.5		-4.5	0.0	0.0	0.0	26.3	
Steam Turbine-Facade 01	Leq,D	99.6	29	442.23	-63.9	5.3	-23.8	-4.3		0.0	1.4	0.0	0.0	14.3	
Steam Turbine-Facade 02	Leq,D	96.2	13	439.93	-63.9	5.3	-23.8	-4.3		0.0	2.1	0.0	0.0	11.7	
Steam Turbine-Facade 03	Leq,D	99.6	29	444.29	-63.9	5.3	-24.7	-5.9	-1.05	0.0	4.4	0.0	0.0	13.7	
Steam Turbine-Facade 04	Leq,D	96.2	13	446.61	-64.0	5.3	-24.7	-5.9	-1.14	0.0	3.4	0.0	0.0	9.3	
Steam Turbine-Roof 01	Leq,D	99.7	30	443.27	-63.9	5.0	-23.7	-4.2		0.0	2.3	0.0	0.0	15.1	
Tank Farm Pump 1	Leq,D	99.0	3	286.88	-60.1	5.3	-24.3	-1.8		0.0	0.1	0.0	0.0	18.1	
Tank Farm Pump 2	Leq,D	99.0	3	275.14	-59.8	5.2	-24.6	-1.9		0.0	0.0	0.0	0.0	18.0	
Tank Farm Pump 3	Leq,D	99.0	3	271.89	-59.7	5.2	-24.6	-1.9		0.0	0.1	0.0	0.0	18.2	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	612.40	-66.7	5.1	-19.0	-1.2		0.0	0.0	-11.8	0.0	18.8	
XF-1502 Splitter Area 1	Leq,D	104.5		509.14	-65.1	4.0	-20.4	-1.7	-0.06	-2.4	0.0	0.0	0.0	19.0	
XF-1502 Splitter Area 2	Leq,D	104.5		507.18	-65.1	4.0	-20.3	-1.7	-0.04	-2.4	0.0	0.0	0.0	19.0	
XF-1504 Splitter Area 1	Leq,D	104.5		505.40	-65.1	4.0	-20.4	-1.7	-0.02	-2.4	0.0	0.0	0.0	19.0	
XF-1504 Splitter Area 2	Leq,D	104.5		503.42	-65.0	4.0	-20.4	-1.7	-0.02	-2.4	0.0	0.0	0.0	19.1	
XF 251, 250, 271, 270	Leq,D	101.1	128	300.99	-60.6	3.2	-19.3	-0.5		-1.4	0.0	0.0	0.0	22.5	
XF 260, 261A, 261 B	Leq,D	99.9	97	349.23	-61.9	3.6	-18.1	-0.5	0.00	-1.4	0.0	0.0	0.0	21.6	
XF 304, XF 321	Leq,D	110.5	56	580.52	-66.3	4.3	-18.7	-0.9	-0.03	-1.3	0.0	0.0	0.0	27.6	
XF 313, XF 314	Leq,D	113.0	18	596.71	-66.5	4.6	-19.3	-1.3	-0.02	-2.2	0.0	0.0	0.0	28.3	
XF 335-1, XF 335-2	Leq,D	113.4	54	586.74	-66.4	4.3	-19.6	-1.2	-0.04	-1.4	0.0	0.0	0.0	29.1	
XF 353A/B	Leq,D	95.4	35	218.61	-57.8	3.0	-20.3	-0.4	0.00	-1.5	0.0	0.0	0.0	18.4	
XF 353A/B	Leq,D	95.4	35	239.68	-58.6	3.0	-18.2	-0.4	0.00	-1.4	0.0	0.0	0.0	19.8	
XF 354A/B	Leq,D	95.4	35	236.59	-58.5	3.0	-17.3	-0.4	0.00	-1.4	0.0	0.0	0.0	20.8	
XF 503	Leq,D	113.0	21	539.90	-65.6	4.6	-21.6	-2.0	-0.46	-2.6	0.0	0.0	0.0	25.4	
XF - 1601	Leq,D	96.6		487.83	-64.8	3.0	-16.8	-0.7		-0.9	0.0	0.0	0.0	16.4	
XF - 1602	Leq,D	96.6		482.83	-64.7	3.0	-16.9	-0.7		-0.9	0.0	0.0	0.0	16.4	
XF Module 1510	Leq,D	108.3		510.18	-65.1	4.2	-20.2	-1.7	-0.17	-2.4	0.0	0.0	0.0	22.9	
XF Module 1519	Leq,D	109.0		512.94	-65.2	4.2	-20.3	-1.7	-0.24	-2.4	0.0	0.0	0.0	23.4	
xxxx xxxx xxxx xxxx	Leq,D		228								8.4			22.3	
xxxx xxxx xxxx xxxx	Leq,D		520								5.8			42.3	
xxxx xxxx xxxx xxxx	Leq,D		1341								4.1			55.4	
xxxx xxxx xxxx xxxx	Leq,D		450								9.8			32.4	
Receiver S-3 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 52.2 dB(A)		Ld 7-19 dB(A)		Leq,N 52.2 dB(A)		Le 19-22 dB(A)		CNEL 58.9 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	347.22	-61.8	5.1	-23.3	-2.0	-0.30	0.0	1.1	0.0	0.0	23.2	
18-1855 A/B	Leq,D	98.8		290.57	-60.3	5.3	-23.9	-1.2	-0.26	0.0	0.1	0.0	0.0	18.7	
18-1856 A/B	Leq,D	98.8		284.96	-60.1	5.3	-23.6	-1.2	-0.27	0.0	0.1	0.0	0.0	19.1	
18-1857 A/B	Leq,D	98.8		296.07	-60.4	5.4	-23.9	-1.2	-0.26	0.0	0.0	0.0	0.0	18.3	
18-1858 A/B	Leq,D	98.8		299.85	-60.5	5.2	-23.9	-1.2	-0.14	0.0	0.0	0.0	0.0	18.1	
18-PK 1802 Air Compressor Package	Leq,D	103.1		271.57	-59.7	5.6	-21.9	-0.5	-0.80	0.0	0.0	0.0	0.0	25.8	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	368.45	-62.3	5.3	-17.6	-1.1	0.00	0.0	0.1	-2.7	0.0	30.6	
Air Compressor C 1	Leq,D	110.0	5	533.47	-65.5	5.7	-23.8	-1.6	-0.27	0.0	4.6	0.0	0.0	29.1	
Air Compressor Pump	Leq,D	100.3		348.49	-61.8	5.3	-24.7	-3.7	-2.87	0.0	0.0	0.0	0.0	12.5	
Blower F 401	Leq,D	113.0		466.93	-64.4	5.4	-22.4	-0.6	-1.31	0.0	0.0	0.0	0.0	29.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	164.77	-55.3	4.4	-23.4	-0.6		0.0	0.1	0.0	0.0	23.8	
Boiler Feed Water Pump A	Leq,D	97.1	3	300.62	-60.6	5.3	-24.0	-1.4		0.0	1.0	0.0	0.0	17.4	
Boiler Feed Water Pump B	Leq,D	97.1	3	298.29	-60.5	5.2	-24.0	-1.4		0.0	0.7	0.0	0.0	17.1	
C370 A Motor	Leq,D	103.6	3	370.85	-62.4	4.8	-24.0	-1.8	-1.00	0.0	0.0	0.0	0.0	19.3	
C370 B Motor	Leq,D	108.6	3	361.98	-62.2	4.8	-24.1	-1.8	-1.82	0.0	0.0	0.0	0.0	23.6	
C370A	Leq,D	103.8	5	373.18	-62.4	4.9	-24.0	-1.8		0.0	0.0	0.0	0.0	20.5	
C370B	Leq,D	103.8	5	364.37	-62.2	4.9	-24.0	-1.8	-1.37	0.0	0.0	0.0	0.0	19.2	
C-270 A	Leq,D	106.3	6	215.67	-57.7	4.2	-24.0	-1.2	-1.43	0.0	0.0	0.0	0.0	26.1	
C-270 B	Leq,D	106.3	6	219.95	-57.8	4.2	-24.1	-1.3	-1.31	0.0	0.0	0.0	0.0	26.0	
C-270 C	Leq,D	106.3	6	224.21	-58.0	4.3	-24.1	-1.3	-1.03	0.0	0.1	0.0	0.0	26.3	
C-301 Compressor	Leq,D	106.8	3	215.72	-57.7	4.2	-23.4	-1.1	-0.83	0.0	0.0	0.0	0.0	28.0	
C-301 Motor	Leq,D	106.8	4	218.79	-57.8	4.2	-24.7	-2.1	-0.97	0.0	0.0	0.0	0.0	25.5	
C-351 Compressor	Leq,D	106.8	4	202.81	-57.1	4.1	-23.7	-1.1	-0.94	0.0	0.0	0.0	0.0	28.0	
C-351 Motor	Leq,D	106.8	5	200.24	-57.0	3.6	-24.5	-1.9	-0.70	0.0	0.2	0.0	0.0	26.5	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	380.84	-62.6	5.4	-14.4	-0.5		0.0	0.0	-33.5	0.0	29.2	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	511.88	-65.2	5.2	-23.4	-1.5	-0.93	0.9	0.7	0.0	0.0	20.7
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	510.80	-65.2	5.2	-22.9	-1.8	-0.91	0.0	0.2	0.0	0.0	15.2
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	522.33	-65.4	5.2	-24.0	-1.7	-0.95	-6.6	0.0	0.0	0.0	13.2
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	519.32	-65.3	5.2	-23.8	-1.6	-0.77	3.5	0.0	0.0	0.0	27.8
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	511.24	-65.2	5.2	-23.6	-1.5	-0.98	3.3	2.9	0.0	0.0	23.9
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	530.39	-65.5	5.2	-24.1	-2.1	-0.80	-7.8	0.0	0.0	0.0	5.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	450.46	-64.1	5.2	-23.1	-1.6	-0.30	1.5	0.0	0.0	0.0	15.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	460.88	-64.3	5.2	-24.1	-1.9	-1.13	-7.8	0.0	0.0	0.0	3.9
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	429.26	-63.6	4.9	-21.8	-1.2		1.7	0.0	0.0	0.0	20.6
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	444.20	-63.9	5.0	-24.2	-1.9	-0.47	-7.8	5.3	0.0	0.0	12.7
Cooling Tower M 512	Leq,D	95.7		452.29	-64.1	5.5	-23.9	-1.9	-0.63	0.0	2.6	0.0	0.0	13.3
Cooling Tower M 513	Leq,D	95.7		453.45	-64.1	5.5	-23.9	-1.9	-0.63	0.0	2.6	0.0	0.0	13.2
Cooling Tower M 514	Leq,D	95.7		450.93	-64.1	5.5	-23.9	-1.9		0.0	0.0	0.0	0.0	11.3
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	325.31	-61.2	3.7	-21.5	-0.6		-1.4	0.1	0.0	0.0	14.8
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	361.00	-62.1	5.0	-17.1	-0.1	-0.11	0.0	1.4	0.0	0.0	22.3
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	363.48	-62.2	5.1	-18.5	-0.1	-0.11	0.0	2.8	0.0	0.0	20.0
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	361.86	-62.2	4.5	-16.6	-0.1	-0.11	0.0	0.0	0.0	0.0	19.0
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	360.24	-62.1	5.0	-17.0	-0.1	-0.10	0.0	1.1	0.0	0.0	19.9
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	362.71	-62.2	5.0	-18.6	-0.1	-0.10	0.0	1.1	0.0	0.0	20.5
FD Motor	Leq,D	103.3	2	360.26	-62.1	5.2	-24.8	-3.0	-0.44	0.0	2.3	0.0	0.0	20.4
Feed Compressor -B Motor	Leq,D	103.8	5	329.79	-61.4	4.7	-24.8	-2.9	-1.78	0.0	0.0	0.0	0.0	17.7
Feed Compressor-A Compressor	Leq,D	104.0	5	344.59	-61.7	4.9	-23.8	-1.6	-0.09	0.0	0.1	0.0	0.0	21.7
Feed Compressor-A Motor	Leq,D	103.8	6	341.47	-61.7	4.7	-24.6	-2.8	-0.80	0.0	0.0	0.0	0.0	18.7
Feed Compressor-B Compressor	Leq,D	104.0	7	333.31	-61.4	4.8	-23.9	-1.6	-1.03	0.0	0.0	0.0	0.0	20.9
H2S Compressor 18-C-271	Leq,D	105.3	6	513.00	-65.2	5.4	-23.7	-2.2	-0.35	0.0	0.0	0.0	0.0	19.4
Heater # 5-Heater	Leq,D	91.1	13	167.54	-55.5	4.5	-21.9	-0.5		0.0	0.0	0.0	0.0	20.7
Heater # 5-Heater	Leq,D	91.1	13	172.43	-55.7	4.5	-20.7	-0.4		0.0	0.0	0.0	0.0	21.8
Heater # 5-Heater	Leq,D	91.1	13	162.79	-55.2	4.4	-22.5	-0.5		0.0	0.2	0.0	0.0	20.6
Hydro Heater H-402	Leq,D	98.1		475.40	-64.5	5.5	-22.5	-1.2	-0.35	0.0	0.0	0.0	0.0	15.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	345.06	-61.8	5.1	-12.4	-0.1	-0.08	0.0	0.0	0.0	0.0	17.8
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	343.25	-61.7	5.1	-14.5	-0.1		0.0	0.7	0.0	0.0	16.8
ID Fan-ID Fan - North	Leq,D	92.2	8	346.32	-61.8	5.1	-14.3	-0.1	-0.07	0.0	0.0	0.0	0.0	21.2
ID Fan-ID Fan - North 2	Leq,D	91.4	7	343.99	-61.7	5.1	-17.1	-0.1	-0.07	0.0	0.0	0.0	0.0	17.6
ID Fan-ID Fan - South	Leq,D	92.3	9	343.86	-61.7	5.1	-14.6	-0.1		0.0	0.0	0.0	0.0	21.1
ID Fan-ID Fan - South 2	Leq,D	91.4	7	342.82	-61.7	5.1	-8.4	-0.1	-0.09	0.0	0.0	0.0	0.0	26.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	344.65	-61.7	4.7	-11.1	-0.1	-0.07	0.0	0.0	0.0	0.0	25.7
Motor & Pump P 56A/B	Leq,D	93.7		490.50	-64.8	5.5	-24.3	-3.0	-0.16	0.0	0.8	0.0	0.0	7.7
Motor & Pump P 120/121	Leq,D	96.2	2	525.71	-65.4	5.6	-24.2	-2.0	-1.30	0.0	1.6	0.0	0.0	10.5
Motor & Pump P 211/212	Leq,D	93.7		495.03	-64.9	5.6	-23.5	-2.6	-0.64	0.0	0.0	0.0	0.0	7.6
Motor & Pump P 215/214	Leq,D	94.6		497.73	-64.9	5.6	-24.4	-3.1	-0.74	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 216	Leq,D	98.3		501.11	-65.0	5.5	-23.5	-2.6	-0.80	0.0	0.0	0.0	0.0	12.0
Motor & Pump P 217/218	Leq,D	93.7		496.14	-64.9	5.7	-24.2	-3.0	-0.69	0.0	0.0	0.0	0.0	6.6
Motor & Pump P 300	Leq,D	97.1	2	536.79	-65.6	5.6	-24.7	-2.3		0.0	0.0	0.0	0.0	10.2
Motor & Pump P 301	Leq,D	102.1	2	535.85	-65.6	5.6	-24.5	-2.2	-0.93	0.0	0.0	0.0	0.0	14.6
Motor & Pump P 302	Leq,D	97.1	2	537.80	-65.6	5.6	-24.4	-2.1	-1.00	0.0	0.8	0.0	0.0	10.4
Motor & Pump P 303	Leq,D	97.1	2	538.72	-65.6	5.6	-24.4	-2.1	-1.00	0.0	0.0	0.0	0.0	9.6
Motor & Pump P 305	Leq,D	97.5	2	539.57	-65.6	5.6	-24.1	-2.1	-1.35	0.0	0.0	0.0	0.0	9.9
Motor & Pump P 306	Leq,D	112.6	4	544.70	-65.7	5.6	-24.1	-2.5	-1.18	0.0	0.4	0.0	0.0	25.0
Motor & Pump P 307	Leq,D	102.1	2	533.14	-65.5	5.6	-24.6	-2.2	-0.75	0.0	0.6	0.0	0.0	15.2
Motor & Pump P 309	Leq,D	97.5	2	540.42	-65.6	5.6	-24.1	-2.0	-1.40	0.0	0.0	0.0	0.0	9.9
Motor & Pump P 312	Leq,D	101.5	2	521.29	-65.3	5.7	-23.1	-1.7	-0.27	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 313	Leq,D	101.5	2	520.35	-65.3	5.7	-23.1	-1.7	-0.27	0.0	0.0	0.0	0.0	16.8
Motor & Pump P 315	Leq,D	102.9	2	517.24	-65.3	5.6	-24.2	-2.0	-1.90	0.0	0.0	0.0	0.0	15.1
Motor & Pump P 316	Leq,D	102.9	2	516.23	-65.2	5.6	-24.6	-2.2		0.0	0.0	0.0	0.0	16.5
Motor & Pump P 317	Leq,D	102.9	2	515.13	-65.2	5.6	-23.5	-1.8	-0.95	0.0	0.0	0.0	0.0	17.0
Motor & Pump P 318	Leq,D	100.2	1	517.83	-65.3	5.7	-24.5	-2.1		0.0	0.2	0.0	0.0	14.2
Motor & Pump P 319	Leq,D	100.2	1	518.60	-65.3	5.7	-24.2	-2.0	-2.00	0.0	0.0	0.0	0.0	12.4
Motor & Pump P 327	Leq,D	111.2	3	549.86	-65.8	5.6	-24.8	-3.4	-0.09	0.0	2.7	0.0	0.0	25.5
Motor & Pump P 328	Leq,D	109.9	5	541.31	-65.7	5.6	-24.3	-2.1	-1.30	0.0	0.0	0.0	0.0	22.1
Motor & Pump P 329	Leq,D	110.2	5	542.96	-65.7	5.6	-24.5	-2.2	-1.01	0.0	0.1	0.0	0.0	22.4
Motor & Pump P 451	Leq,D	93.7		470.98	-64.5	5.5	-24.4	-3.0	-0.36	0.0	0.0	0.0	0.0	6.9
Motor & Pump P 453	Leq,D	93.7		462.87	-64.3	5.5	-24.4	-3.0	-0.12	0.0	0.0	0.0	0.0	7.4
Motor & Pump P 454	Leq,D	93.7		472.48	-64.5	5.5	-24.4	-3.0	-0.24	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 457	Leq,D	93.7		462.15	-64.3	5.5	-24.4	-3.0	-0.10	0.0	0.0	0.0	0.0	7.4
Motor & Pump P 458	Leq,D	93.7		469.97	-64.4	5.5	-24.4	-3.0	-0.37	0.0	0.0	0.0	0.0	6.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		472.97	-64.5	5.5	-24.4	-3.0	-0.25	0.0	0.0	0.0	0.0	7.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		473.72	-64.5	5.6	-24.5	-3.0	-0.51	0.0	0.0	0.0	0.0	9.2
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		474.65	-64.5	5.6	-24.5	-3.1	-0.57	0.0	2.4	0.0	0.0	11.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		486.59	-64.7	5.6	-24.3	-2.9	-0.21	0.0	0.0	0.0	0.0	8.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		487.29	-64.7	5.6	-24.3	-2.9	-0.21	0.0	0.0	0.0	0.0	8.8
Motor & Pump P 1601 A	Leq,D	96.3	2	450.66	-64.1	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.3
Motor & Pump P 1601 B	Leq,D	96.3	2	449.39	-64.0	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.3
Motor & Pump P 1602 A	Leq,D	96.3	2	448.32	-64.0	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.4
Motor & Pump P 1602 B	Leq,D	96.5	2	447.10	-64.0	5.4	-23.8	-2.5		0.0	0.0	0.0	0.0	11.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	466.28	-64.4	5.6	-24.6	-3.1	-0.57	0.0	0.0	0.0	0.0	9.6
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	469.07	-64.4	5.6	-24.5	-3.0	-0.75	0.0	0.0	0.0	0.0	9.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	470.45	-64.4	5.6	-24.5	-3.0	-0.77	0.0	0.0	0.0	0.0	9.5
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	474.98	-64.5	5.6	-24.5	-3.1	-0.63	0.0	2.0	0.0	0.0	11.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	475.98	-64.5	5.6	-24.5	-3.1	-0.70	0.0	1.2	0.0	0.0	10.7
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	467.84	-64.4	5.6	-24.3	-2.9	-0.03	0.0	0.0	0.0	0.0	10.3
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	469.72	-64.4	5.6	-23.8	-2.6	-0.09	0.0	0.1	0.0	0.0	11.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	472.96	-64.5	5.6	-23.8	-2.6	-0.19	0.0	0.0	0.0	0.0	10.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	471.50	-64.5	5.6	-23.8	-2.6	-0.15	0.0	0.0	0.0	0.0	10.9
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	513.12	-65.2	5.4	-23.2	-1.9	-0.50	0.0	0.0	0.0	0.0	18.7
P-2 A/B	Leq,D	98.5		106.52	-51.5	4.9	-24.7	-0.6		0.0	0.4	0.0	0.0	27.0
P-50 A/B	Leq,D	98.1		149.14	-54.5	5.2	-24.7	-0.8	-0.12	0.0	0.3	0.0	0.0	23.6
P-51 A/B	Leq,D	98.1		146.39	-54.3	5.2	-24.7	-0.8	-0.12	0.0	0.0	0.0	0.0	23.4
P-060 A/B	Leq,D	98.1		156.38	-54.9	5.2	-24.6	-0.8	-0.12	0.0	0.0	0.0	0.0	23.0
P-63	Leq,D	98.5		124.85	-52.9	5.1	-24.8	-0.7		0.0	0.0	0.0	0.0	25.2
P-70 A/B	Leq,D	98.1		153.12	-54.7	5.2	-24.6	-0.8	-0.12	0.0	0.0	0.0	0.0	23.1
P-73 A/B	Leq,D	98.5		109.69	-51.8	4.9	-24.7	-0.6		0.0	0.4	0.0	0.0	26.7
P-251 A/B	Leq,D	98.2		276.01	-59.8	5.6	-24.1	-1.2	-0.85	0.0	0.0	0.0	0.0	17.8
P-252 A/B	Leq,D	98.2		277.80	-59.9	5.6	-24.3	-1.2	-1.30	0.0	0.0	0.0	0.0	17.1
P-253	Leq,D	98.2		270.91	-59.6	5.6	-24.2	-1.2	-1.25	0.0	0.0	0.0	0.0	17.5
P-254 A/B	Leq,D	98.2		265.67	-59.5	5.6	-24.3	-1.1	-1.10	0.0	0.0	0.0	0.0	17.8
P-255 A/B	Leq,D	98.2		268.80	-59.6	5.6	-24.4	-1.2	-1.10	0.0	0.0	0.0	0.0	17.5
P-255 A/B	Leq,D	98.2		282.75	-60.0	5.6	-24.1	-1.2	-0.76	0.0	0.0	0.0	0.0	17.8
P-256 A/B	Leq,D	98.2		272.88	-59.7	5.6	-24.2	-1.2	-0.94	0.0	0.0	0.0	0.0	17.8
P-259 A/B	Leq,D	98.2		279.27	-59.9	5.6	-24.1	-1.2	-0.81	0.0	0.0	0.0	0.0	17.8
P-260	Leq,D	99.1		295.58	-60.4	5.6	-24.0	-1.2	-1.25	0.0	0.0	0.0	0.0	17.9
P-261 A/B	Leq,D	98.0		317.55	-61.0	5.6	-23.8	-1.3	-1.03	0.0	0.0	0.0	0.0	16.6
P-262 A/B	Leq,D	99.1		303.48	-60.6	5.6	-23.9	-1.2	-1.23	0.0	0.0	0.0	0.0	17.7
P-263 A/B	Leq,D	99.4		299.78	-60.5	5.6	-23.9	-1.2	-1.21	0.0	0.0	0.0	0.0	18.1
P-270 A/B	Leq,D	98.5		229.05	-58.2	5.5	-24.2	-1.0	-1.38	0.0	0.0	0.0	0.0	19.2
P-271 A/B	Leq,D	98.2		256.79	-59.2	5.5	-24.3	-1.1	-1.14	0.0	0.0	0.0	0.0	18.0
P-272 A/B	Leq,D	98.2		261.08	-59.3	5.5	-24.2	-1.1	-1.16	0.0	0.0	0.0	0.0	17.9
P-273 A/B	Leq,D	98.5		232.04	-58.3	5.5	-24.2	-1.0	-1.40	0.0	0.0	0.0	0.0	19.0
P-275 A/B/C	Leq,D	98.2		261.01	-59.3	5.5	-24.3	-1.1	-1.17	0.0	0.0	0.0	0.0	17.9
P-305	Leq,D	99.3		190.20	-56.6	5.4	-24.3	-0.9	-0.43	0.0	0.0	0.0	0.0	22.5
P-306	Leq,D	100.8		180.90	-56.1	5.3	-24.4	-0.9	-0.39	0.0	0.0	0.0	0.0	24.3
P-309	Leq,D	99.3		187.96	-56.5	5.4	-24.4	-0.9	-0.42	0.0	0.0	0.0	0.0	22.6
P-328	Leq,D	100.8		175.44	-55.9	5.3	-24.5	-0.8	-0.36	0.0	1.4	0.0	0.0	26.0
P-329	Leq,D	100.8		178.14	-56.0	5.3	-24.5	-0.8	-0.38	0.0	1.4	0.0	0.0	25.9
P-353	Leq,D	98.5		193.59	-56.7	4.9	-24.4	-0.9	-1.02	0.0	3.1	0.0	0.0	23.4
P-358 A/B	Leq,D	99.4		188.17	-56.5	5.4	-24.6	-0.9	-1.07	0.0	0.3	0.0	0.0	22.0
P-359 A/B	Leq,D	99.4		185.45	-56.4	5.4	-24.6	-0.9	-1.06	0.0	0.3	0.0	0.0	22.1
P-360 A/B	Leq,D	99.4		180.52	-56.1	5.3	-24.4	-0.9	-0.74	0.0	0.0	0.0	0.0	22.6
P-361A	Leq,D	98.1		172.22	-55.7	4.8	-20.8	-0.6	-0.16	0.0	0.0	0.0	0.0	25.7
P-371 A/B	Leq,D	98.0		410.70	-63.3	5.5	-23.5	-1.5		0.0	0.0	0.0	0.0	15.2
P-373 A/B	Leq,D	98.0		395.07	-62.9	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.4
P-374 A/B	Leq,D	98.0		398.29	-63.0	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.4
P-375 A/B	Leq,D	98.0		405.69	-63.2	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.3
P-376	Leq,D	98.0		400.34	-63.0	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.3
P-376 A/B	Leq,D	98.0		391.70	-62.9	5.5	-24.3	-1.6	-2.19	0.0	0.0	0.0	0.0	12.5
P-377	Leq,D	98.0		402.28	-63.1	5.5	-23.6	-1.5		0.0	0.0	0.0	0.0	15.3
P-1101 A	Leq,D	98.9		127.13	-53.1	4.4	-14.0	-0.4		0.0	0.2	0.0	0.0	36.1
P-1103	Leq,D	98.9		128.14	-53.1	4.4	-13.9	-0.4		0.0	0.2	0.0	0.0	36.0

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1105 A/B/C	Leq,D	98.9		123.69	-52.8	4.3	-24.5	-0.6		0.0	2.0	0.0	0.0	27.3
P-1800	Leq,D	98.9		74.54	-48.4	4.4	-24.8	-0.4		0.0	1.7	0.0	0.0	31.4
P-1801	Leq,D	98.9		58.45	-46.3	4.0	-24.8	-0.3		0.0	1.5	0.0	0.0	32.9
P-1802	Leq,D	98.9		60.96	-46.7	4.1	-25.0	-0.4		0.0	1.6	0.0	0.0	32.6
P-1803	Leq,D	99.1		174.61	-55.8	5.3	-24.5	-0.9		0.0	0.2	0.0	0.0	23.4
P-1804	Leq,D	99.1		154.36	-54.8	5.2	-24.8	-0.8		0.0	0.0	0.0	0.0	24.0
P-1805	Leq,D	99.1		152.65	-54.7	5.2	-24.8	-0.8		0.0	0.0	0.0	0.0	24.1
P-1806	Leq,D	99.1		189.49	-56.5	5.4	-20.3	-0.6	-0.47	0.0	0.0	0.0	0.0	26.6
P-1809 A	Leq,D	98.9		71.07	-48.0	4.3	-24.8	-0.4		0.0	1.9	0.0	0.0	31.9
P-1810 A/B/C	Leq,D	99.0		161.36	-55.1	5.3	-24.8	-0.8		0.0	0.0	0.0	0.0	23.5
P-1811 A/B	Leq,D	99.1		184.95	-56.3	5.4	-24.0	-0.8	-0.34	0.0	2.4	0.0	0.0	25.4
P-1811 A/B	Leq,D	99.1		150.52	-54.5	5.2	-24.8	-0.8		0.0	2.8	0.0	0.0	27.0
P-1847 A/B	Leq,D	99.4		237.04	-58.5	5.5	-24.4	-1.1		0.0	1.3	0.0	0.0	22.2
P-1849 A/B	Leq,D	99.4		234.12	-58.4	5.5	-24.5	-1.1		0.0	0.0	0.0	0.0	20.9
P-1853	Leq,D	99.1		239.17	-58.6	5.5	-24.8	-1.2		0.0	1.8	0.0	0.0	21.9
Piping Furnace Tanks	Leq,D	87.1	72	369.35	-62.3	4.1	-24.7	-7.9		0.0	1.9	0.0	0.0	-1.8
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	368.36	-62.3	4.2	-24.6	-7.7	0.00	0.0	1.0	0.0	0.0	9.0
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	409.13	-63.2	4.9	-24.9	-3.4	-0.39	0.0	1.1	0.0	0.0	28.6
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	406.04	-63.2	4.9	-24.9	-9.1	-0.43	0.0	1.0	0.0	0.0	23.4
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	190.43	-56.6	3.2	-24.5	-0.9		0.0	0.3	0.0	0.0	32.0
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	215.17	-57.6	3.0	-24.8	-1.1		0.0	0.5	0.0	0.0	31.1
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	213.41	-57.6	3.0	-24.8	-1.1		0.0	0.4	0.0	0.0	24.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	175.63	-55.9	3.0	-24.4	-0.9		0.0	0.2	0.0	0.0	33.2
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	197.35	-56.9	3.0	-24.7	-1.0		0.0	0.3	0.0	0.0	24.7
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	216.12	-57.7	3.5	-24.8	-1.1		0.0	0.1	0.0	0.0	23.7
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	206.73	-57.3	3.3	-24.7	-1.0		0.0	0.0	0.0	0.0	26.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	188.70	-56.5	3.2	-24.6	-0.9		0.0	0.1	0.0	0.0	27.5
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	195.69	-56.8	3.0	-24.6	-0.9		0.0	0.2	0.0	0.0	33.9
PSA Pipe 3" Lagging	Leq,D	80.6	11	395.54	-62.9	3.4	-24.3	-3.1		0.0	0.7	0.0	0.0	-5.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	411.47	-63.3	4.9	-24.9	-3.4	-0.40	0.0	1.1	0.0	0.0	30.6
Reformer-Burner Reformer East	Leq,D	97.3	269	372.38	-62.4	3.2	-24.7	-2.3		0.0	4.2	0.0	0.0	18.3
Reformer-Burner Reformer North	Leq,D	95.9	192	374.38	-62.5	3.4	-24.5	-2.2		0.0	0.0	0.0	0.0	10.0
Reformer-Burner Reformer South	Leq,D	95.8	191	360.80	-62.1	3.5	-24.3	-2.0	-0.06	0.0	1.0	0.0	0.0	14.6
Reformer-Burner Reformer West	Leq,D	97.3	268	362.88	-62.2	3.5	-23.7	-1.9		0.0	0.2	0.0	0.0	16.2
RFG A from battery to process	Leq,D	99.4	87	363.22	-62.2	4.2	-24.6	-7.6	0.00	0.0	1.0	0.0	0.0	10.1
RFG A from battery to process w NC	Leq,D	115.2	42	407.85	-63.2	4.9	-24.9	-9.1	-0.49	0.0	1.6	0.0	0.0	24.0
Stack Noise	Leq,D	108.4		342.83	-61.7	3.0	-7.1	-0.9		-5.5	0.0	0.0	0.0	36.3
Steam Turbine-Facade 01	Leq,D	99.6	29	403.50	-63.1	5.3	-24.2	-4.7		0.0	1.3	0.0	0.0	14.1
Steam Turbine-Facade 02	Leq,D	96.2	13	401.44	-63.1	5.3	-24.2	-4.7		0.0	2.3	0.0	0.0	11.9
Steam Turbine-Facade 03	Leq,D	99.6	29	405.75	-63.2	5.3	-24.8	-5.8	-1.65	0.0	4.3	0.0	0.0	13.7
Steam Turbine-Facade 04	Leq,D	96.2	13	407.83	-63.2	5.3	-24.8	-5.8	-1.73	0.0	2.6	0.0	0.0	8.6
Steam Turbine-Roof 01	Leq,D	99.7	30	404.63	-63.1	4.9	-24.2	-4.7		0.0	2.4	0.0	0.0	14.9
Tank Farm Pump 1	Leq,D	99.0	3	261.92	-59.4	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.5
Tank Farm Pump 2	Leq,D	99.0	3	253.03	-59.1	5.2	-24.6	-1.8		0.0	1.1	0.0	0.0	19.8
Tank Farm Pump 3	Leq,D	99.0	3	250.62	-59.0	5.2	-24.6	-1.8		0.0	0.0	0.0	0.0	18.8
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	561.46	-66.0	5.0	-20.2	-1.3		0.0	0.1	-11.8	0.0	18.3
XF-1502 Splitter Area 1	Leq,D	104.5		469.57	-64.4	3.9	-22.0	-1.8	-0.06	-2.5	0.0	0.0	0.0	17.6
XF-1502 Splitter Area 2	Leq,D	104.5		467.44	-64.4	3.9	-22.0	-1.8	-0.04	-2.5	0.0	0.0	0.0	17.7
XF-1504 Splitter Area 1	Leq,D	104.5		465.95	-64.4	3.9	-22.1	-1.8	-0.02	-2.5	0.0	0.0	0.0	17.7
XF-1504 Splitter Area 2	Leq,D	104.5		463.81	-64.3	3.8	-22.0	-1.8	-0.02	-2.5	0.0	0.0	0.0	17.7
XF 251, 250, 271, 270	Leq,D	101.1	128	259.00	-59.3	3.0	-18.5	-0.4		-1.4	0.0	0.0	0.0	24.5
XF 260, 261A, 261 B	Leq,D	99.9	97	306.32	-60.7	3.3	-18.4	-0.5	0.00	-1.4	0.0	0.0	0.0	22.1
XF 304, XF 321	Leq,D	110.5	56	540.38	-65.6	4.1	-20.6	-0.9	-0.04	-1.4	0.0	0.0	0.0	26.1
XF 313, XF 314	Leq,D	113.0	18	557.73	-65.9	4.5	-22.3	-1.4	-0.02	-2.3	0.0	0.0	0.0	25.6
XF 335-1, XF 335-2	Leq,D	113.4	54	547.07	-65.8	4.2	-21.9	-1.4	-0.04	-1.5	0.0	0.0	0.0	27.0
XF 353A/B	Leq,D	95.4	35	177.76	-56.0	3.0	-20.3	-0.4	0.00	-1.4	0.0	0.0	0.0	20.3
XF 353A/B	Leq,D	95.4	35	200.20	-57.0	3.0	-20.4	-0.4		-1.4	0.0	0.0	0.0	19.2
XF 354A/B	Leq,D	95.4	35	193.02	-56.7	3.0	-16.1	-0.3	0.00	-1.5	0.1	0.0	0.0	23.9
XF 503	Leq,D	113.0	21	498.27	-64.9	4.5	-23.3	-2.4	-0.48	-2.7	0.0	0.0	0.0	23.7
XF - 1601	Leq,D	96.6		448.38	-64.0	3.0	-18.2	-0.7		-0.9	0.0	0.0	0.0	15.8
XF - 1602	Leq,D	96.6		443.56	-63.9	3.0	-18.3	-0.7		-0.9	0.0	0.0	0.0	15.8
XF Module 1510	Leq,D	108.3		470.12	-64.4	4.0	-22.0	-1.8	-0.15	-2.5	0.0	0.0	0.0	21.5
XF Module 1519	Leq,D	109.0		473.11	-64.5	4.1	-22.0	-1.8	-0.24	-2.5	0.0	0.0	0.0	22.1
xxxx xxxx xxxx xxxx	Leq,D		228								15.2			11.3
xxxx xxxx xxxx xxxx	Leq,D		520								3.3			40.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	Leq,D		1341								5.5			49.8	
xxxx xxxx xxxx xxxx	Leq,D		450								7.6			32.5	
Receiver S-4 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 55.6 dB(A)		Ld 7-19 dB(A)		Leq,N 55.5 dB(A)		Le 19-22 dB(A)		CNEL 62.2 dB(A)		Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	306.18	-60.7	5.0	-20.7	-1.4	-1.50	0.0	1.2	0.0	0.0	26.3	
18-1855 A/B	Leq,D	98.8		238.73	-58.6	5.2	-14.4	-0.8	-2.21	0.0	0.0	0.0	0.0	28.1	
18-1856 A/B	Leq,D	98.8		233.97	-58.4	5.2	-15.1	-0.7	-2.08	0.0	0.3	0.0	0.0	28.0	
18-1857 A/B	Leq,D	98.8		243.45	-58.7	5.2	-14.3	-0.8	-2.14	0.0	0.0	0.0	0.0	28.1	
18-1858 A/B	Leq,D	98.8		246.69	-58.8	5.0	-13.9	-0.8	-2.06	0.0	0.0	0.0	0.0	28.2	
18-PK 1802 Air Compressor Package	Leq,D	103.1		219.81	-57.8	5.5	-12.7	-0.3	-2.33	0.0	0.0	0.0	0.0	35.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	296.82	-60.4	5.1	-12.3	-1.3	0.00	0.0	0.5	-2.7	0.0	37.9	
Air Compressor C 1	Leq,D	110.0	5	478.26	-64.6	5.6	-16.8	-0.9	-2.00	0.0	3.8	0.0	0.0	35.1	
Air Compressor Pump	Leq,D	100.3		288.93	-60.2	5.2	-23.5	-2.5	-1.81	0.0	1.1	0.0	0.0	18.6	
Blower F 401	Leq,D	113.0		404.66	-63.1	5.3	-17.8	-0.5	-0.04	0.0	0.0	0.0	0.0	36.8	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	99.58	-51.0	3.5	-23.3	-0.4		0.0	2.4	0.0	0.0	29.9	
Boiler Feed Water Pump A	Leq,D	97.1	3	252.81	-59.0	5.1	-16.0	-0.8	-1.76	0.0	0.3	0.0	0.0	24.9	
Boiler Feed Water Pump B	Leq,D	97.1	3	250.07	-59.0	5.1	-16.2	-0.8	-1.78	0.0	0.3	0.0	0.0	24.8	
C370 A Motor	Leq,D	103.6	3	315.77	-61.0	4.6	-14.4	-1.0	-1.99	0.0	0.0	0.0	0.0	29.8	
C370 B Motor	Leq,D	108.6	3	307.70	-60.8	4.6	-14.6	-1.0	-1.91	0.0	0.0	0.0	0.0	34.9	
C370A	Leq,D	103.8	5	318.55	-61.1	4.7	-14.4	-1.1	-1.95	0.0	0.0	0.0	0.0	30.1	
C370B	Leq,D	103.8	5	310.57	-60.8	4.7	-14.8	-1.0	-1.88	0.0	0.0	0.0	0.0	29.9	
C-270 A	Leq,D	106.3	6	158.42	-55.0	3.6	-16.4	-0.5	-1.29	0.0	1.6	0.0	0.0	38.3	
C-270 B	Leq,D	106.3	6	162.09	-55.2	3.6	-15.7	-0.6	-1.22	0.0	1.8	0.0	0.0	39.0	
C-270 C	Leq,D	106.3	6	165.80	-55.4	3.7	-15.6	-0.6	-1.07	0.0	0.9	0.0	0.0	38.2	
C-301 Compressor	Leq,D	106.8	3	165.45	-55.4	3.7	-16.7	-0.6	-1.45	0.0	0.0	0.0	0.0	36.4	
C-301 Motor	Leq,D	106.8	4	167.85	-55.5	3.7	-17.7	-0.9	-1.70	0.0	0.0	0.0	0.0	34.7	
C-351 Compressor	Leq,D	106.8	4	149.60	-54.5	3.4	-15.3	-0.5	-1.22	0.0	0.3	0.0	0.0	39.0	
C-351 Motor	Leq,D	106.8	5	146.07	-54.3	3.0	-14.8	-0.8	-1.34	0.0	0.0	0.0	0.0	38.5	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	306.65	-60.7	5.2	-9.0	-0.5		0.0	0.0	-33.5	0.0	36.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	451.23	-64.1	5.1	-16.3	-0.9	-1.19	1.2	0.8	0.0	0.0	29.4	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	450.62	-64.1	5.1	-16.4	-1.0	-1.33	0.0	0.3	0.0	0.0	23.1	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	461.88	-64.3	5.1	-21.2	-1.1	-1.21	-7.0	0.3	0.0	0.0	17.2	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	458.16	-64.2	5.1	-17.5	-1.0	-1.19	3.1	0.1	0.0	0.0	35.1	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	450.82	-64.1	5.1	-17.9	-0.9	-1.23	3.1	2.9	0.0	0.0	30.8	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	469.22	-64.4	5.1	-21.6	-1.4	-1.17	-7.8	0.4	0.0	0.0	9.5	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	393.37	-62.9	5.1	-14.5	-1.0	-1.90	2.0	0.1	0.0	0.0	24.7	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	403.11	-63.1	5.1	-21.1	-1.2	-2.00	-7.8	0.2	0.0	0.0	8.0	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	373.55	-62.4	4.7	-11.2	-0.9	-2.10	2.3	0.0	0.0	0.0	30.9	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	387.40	-62.8	4.9	-22.0	-1.3	-0.95	-7.8	8.4	0.0	0.0	19.2	
Cooling Tower M 512	Leq,D	95.7		394.35	-62.9	5.4	-14.5	-1.5	-2.00	0.0	3.0	0.0	0.0	23.2	
Cooling Tower M 513	Leq,D	95.7		395.42	-62.9	5.4	-14.3	-1.5	-1.99	0.0	2.9	0.0	0.0	23.3	
Cooling Tower M 514	Leq,D	95.7		393.06	-62.9	5.4	-13.9	-1.5	-2.01	0.0	2.6	0.0	0.0	23.4	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	279.50	-59.9	3.3	-11.1	-0.5	-1.45	-1.8	0.0	0.0	0.0	24.3	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	319.07	-61.1	4.9	-8.8	-0.1	-0.48	0.0	0.5	0.0	0.0	30.3	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	321.59	-61.1	4.9	-14.8	-0.1	-0.38	0.0	3.1	0.0	0.0	24.7	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	319.77	-61.1	4.3	-9.7	-0.1	-0.42	0.0	0.3	0.0	0.0	26.8	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	317.94	-61.0	4.9	-9.9	-0.1	-0.23	0.0	0.7	0.0	0.0	27.6	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	320.44	-61.1	4.9	-15.4	-0.1	-0.25	0.0	1.6	0.0	0.0	25.0	
FD Motor	Leq,D	103.3	2	318.49	-61.1	5.1	-15.9	-1.5	-1.60	0.0	1.2	0.0	0.0	29.5	
Feed Compressor -B Motor	Leq,D	103.8	5	277.22	-59.8	4.4	-15.9	-1.3	-2.11	0.0	0.0	0.0	0.0	29.0	
Feed Compressor-A Compressor	Leq,D	104.0	5	291.30	-60.3	4.7	-14.7	-1.0	-1.83	0.0	0.1	0.0	0.0	31.0	
Feed Compressor-A Motor	Leq,D	103.8	6	287.60	-60.2	4.5	-15.6	-1.4	-2.13	0.0	0.0	0.0	0.0	29.0	
Feed Compressor-B Compressor	Leq,D	104.0	7	281.42	-60.0	4.6	-15.8	-0.9	-1.92	0.0	0.2	0.0	0.0	30.2	
H2S Compressor 18-C-271	Leq,D	105.3	6	455.44	-64.2	5.3	-15.7	-1.4	-2.08	0.0	0.2	0.0	0.0	27.5	
Heater # 5-Heater	Leq,D	91.1	13	102.93	-51.2	3.7	-12.2	-0.2		0.0	0.1	0.0	0.0	34.1	
Heater # 5-Heater	Leq,D	91.1	13	107.43	-51.6	3.7	-18.4	-0.2		0.0	0.3	0.0	0.0	27.8	
Heater # 5-Heater	Leq,D	91.1	13	98.58	-50.9	3.6	-12.1	-0.2		0.0	0.1	0.0	0.0	34.6	
Hydro Heater H-402	Leq,D	98.1		416.14	-63.4	5.4	-18.3	-0.7	-0.64	0.0	0.1	0.0	0.0	20.6	
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	303.98	-60.6	5.0	-11.9	-0.1	-0.25	0.0	0.0	0.0	0.0	19.1	
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	301.94	-60.6	5.0	-5.5	-0.1	-0.35	0.0	0.8	0.0	0.0	26.5	
ID Fan-ID Fan - North	Leq,D	92.2	8	305.08	-60.7	5.0	-12.9	-0.1	-0.24	0.0	0.0	0.0	0.0	23.3	
ID Fan-ID Fan - North 2	Leq,D	91.4	7	303.02	-60.6	5.0	-14.8	-0.1	-0.24	0.0	0.0	0.0	0.0	20.7	
ID Fan-ID Fan - South	Leq,D	92.3	9	302.29	-60.6	5.0	-5.6	-0.1	-0.33	0.0	0.0	0.0	0.0	30.7	
ID Fan-ID Fan - South 2	Leq,D	91.4	7	301.71	-60.6	5.0	-5.6	-0.1	-0.33	0.0	0.0	0.0	0.0	29.7	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	303.38	-60.6	4.6	-6.4	-0.1	-0.36	0.0	0.0	0.0	0.0	31.1
Motor & Pump P 56A/B	Leq,D	93.7		431.98	-63.7	5.5	-15.5	-1.8	-2.14	0.0	0.3	0.0	0.0	16.3
Motor & Pump P 120/121	Leq,D	96.2	2	469.65	-64.4	5.6	-20.0	-1.4	-1.87	0.0	0.0	0.0	0.0	14.0
Motor & Pump P 211/212	Leq,D	93.7		434.03	-63.7	5.5	-13.7	-1.8	-1.44	0.0	0.6	0.0	0.0	19.0
Motor & Pump P 215/214	Leq,D	94.6		437.04	-63.8	5.5	-22.2	-2.0	-1.04	0.0	0.9	0.0	0.0	12.0
Motor & Pump P 216	Leq,D	98.3		439.89	-63.9	5.5	-24.3	-2.9	-0.20	0.0	4.2	0.0	0.0	16.7
Motor & Pump P 217/218	Leq,D	93.7		435.25	-63.8	5.7	-13.0	-1.9	-1.55	0.0	0.5	0.0	0.0	19.6
Motor & Pump P 300	Leq,D	97.1	2	480.29	-64.6	5.6	-22.1	-1.5	-1.34	0.0	3.5	0.0	0.0	16.6
Motor & Pump P 301	Leq,D	102.1	2	479.23	-64.6	5.6	-22.6	-1.6	-1.27	0.0	2.9	0.0	0.0	20.5
Motor & Pump P 302	Leq,D	97.1	2	481.42	-64.6	5.6	-21.6	-1.5	-1.42	0.0	2.7	0.0	0.0	16.3
Motor & Pump P 303	Leq,D	97.1	2	482.44	-64.7	5.6	-21.0	-1.4	-1.49	0.0	2.0	0.0	0.0	16.0
Motor & Pump P 305	Leq,D	97.5	2	483.38	-64.7	5.6	-20.7	-1.4	-1.57	0.0	0.3	0.0	0.0	15.0
Motor & Pump P 306	Leq,D	112.6	4	489.11	-64.8	5.5	-19.9	-1.3	-2.45	0.0	0.6	0.0	0.0	30.2
Motor & Pump P 307	Leq,D	102.1	2	476.20	-64.5	5.6	-24.1	-1.9	-1.17	0.0	0.3	0.0	0.0	16.2
Motor & Pump P 309	Leq,D	97.5	2	484.32	-64.7	5.6	-19.3	-1.4	-1.85	0.0	0.0	0.0	0.0	15.8
Motor & Pump P 312	Leq,D	101.5	2	462.91	-64.3	5.6	-14.0	-1.4	-2.30	0.0	0.3	0.0	0.0	25.4
Motor & Pump P 313	Leq,D	101.5	2	461.85	-64.3	5.6	-20.9	-1.4	-1.70	0.0	1.2	0.0	0.0	19.9
Motor & Pump P 315	Leq,D	102.9	2	458.30	-64.2	5.6	-23.7	-1.8	-0.48	0.0	0.6	0.0	0.0	19.0
Motor & Pump P 316	Leq,D	102.9	2	457.16	-64.2	5.6	-19.3	-1.3	-1.83	0.0	0.4	0.0	0.0	22.1
Motor & Pump P 317	Leq,D	102.9	2	455.94	-64.2	5.6	-19.1	-1.3	-1.23	0.0	0.3	0.0	0.0	22.9
Motor & Pump P 318	Leq,D	100.2	1	459.04	-64.2	5.7	-24.3	-1.9		0.0	2.1	0.0	0.0	17.5
Motor & Pump P 319	Leq,D	100.2	1	459.91	-64.2	5.7	-24.3	-1.9		0.0	2.2	0.0	0.0	17.5
Motor & Pump P 327	Leq,D	111.2	3	494.76	-64.9	5.6	-23.2	-2.5	-1.84	0.0	3.0	0.0	0.0	27.4
Motor & Pump P 328	Leq,D	109.9	5	485.34	-64.7	5.5	-20.4	-1.5	-1.52	0.0	1.4	0.0	0.0	28.7
Motor & Pump P 329	Leq,D	110.2	5	487.19	-64.7	5.5	-22.9	-1.7	-1.44	0.0	3.0	0.0	0.0	27.8
Motor & Pump P 451	Leq,D	93.7		411.28	-63.3	5.4	-22.9	-2.1	-0.51	0.0	1.1	0.0	0.0	11.4
Motor & Pump P 453	Leq,D	93.7		402.47	-63.1	5.4	-22.4	-1.9	-0.40	0.0	4.1	0.0	0.0	15.5
Motor & Pump P 454	Leq,D	93.7		412.75	-63.3	5.4	-22.3	-1.9	-0.51	0.0	0.9	0.0	0.0	12.0
Motor & Pump P 457	Leq,D	93.7		401.64	-63.1	5.4	-22.3	-1.9	-0.38	0.0	4.0	0.0	0.0	15.5
Motor & Pump P 458	Leq,D	93.7		410.33	-63.3	5.4	-23.0	-2.1	-0.52	0.0	1.1	0.0	0.0	11.3
Motor & Pump P 459	Leq,D	93.7		413.31	-63.3	5.4	-22.8	-2.1	-0.52	0.0	1.1	0.0	0.0	11.5
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		416.82	-63.4	5.5	-21.8	-1.8	-0.93	0.0	0.3	0.0	0.0	14.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		417.87	-63.4	5.5	-21.8	-1.8	-1.00	0.0	0.3	0.0	0.0	14.0
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		432.84	-63.7	5.5	-14.9	-1.8	-2.37	0.0	0.3	0.0	0.0	18.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		433.63	-63.7	5.5	-14.9	-1.8	-2.36	0.0	0.3	0.0	0.0	18.4
Motor & Pump P 1601 A	Leq,D	96.3	2	395.45	-62.9	5.3	-14.8	-1.6	-2.14	0.0	0.0	0.0	0.0	20.1
Motor & Pump P 1601 B	Leq,D	96.3	2	394.28	-62.9	5.3	-14.9	-1.6	-2.15	0.0	0.0	0.0	0.0	20.0
Motor & Pump P 1602 A	Leq,D	96.3	2	393.27	-62.9	5.3	-15.0	-1.6	-2.16	0.0	0.0	0.0	0.0	20.0
Motor & Pump P 1602 B	Leq,D	96.5	2	392.14	-62.9	5.3	-15.0	-1.6	-2.16	0.0	0.0	0.0	0.0	20.2
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	409.94	-63.2	5.5	-22.8	-2.1	-1.19	0.0	0.4	0.0	0.0	13.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	413.09	-63.3	5.5	-22.1	-1.9	-1.41	0.0	0.0	0.0	0.0	13.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	414.66	-63.3	5.5	-21.8	-1.8	-1.47	0.0	0.0	0.0	0.0	13.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	418.35	-63.4	5.5	-21.8	-1.8	-1.09	0.0	1.0	0.0	0.0	15.1
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	419.48	-63.4	5.5	-21.8	-1.8	-1.19	0.0	2.2	0.0	0.0	16.2
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	412.85	-63.3	5.5	-15.1	-1.7	-2.18	0.0	0.4	0.0	0.0	20.0
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	414.59	-63.3	5.5	-16.4	-1.7	-2.15	0.0	0.0	0.0	0.0	18.2
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	417.58	-63.4	5.5	-21.1	-1.8	-1.58	0.0	0.0	0.0	0.0	14.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	416.23	-63.4	5.5	-21.1	-1.7	-1.56	0.0	0.0	0.0	0.0	14.0
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	459.38	-64.2	5.4	-14.7	-1.4	-2.19	0.0	0.2	0.0	0.0	27.2
P-2 A/B	Leq,D	98.5		78.28	-48.9	4.5	-14.4	-0.3		0.0	0.3	0.0	0.0	39.8
P-50 A/B	Leq,D	98.1		108.79	-51.7	4.9	-19.1	-0.4	-0.22	0.0	0.4	0.0	0.0	32.0
P-51 A/B	Leq,D	98.1		104.93	-51.4	4.9	-19.4	-0.3	-0.22	0.0	0.5	0.0	0.0	32.1
P-060 A/B	Leq,D	98.1		118.52	-52.5	5.0	-22.6	-0.5	-0.26	0.0	1.0	0.0	0.0	28.4
P-63	Leq,D	98.5		77.45	-48.8	4.5	-23.4	-0.4		0.0	2.5	0.0	0.0	33.0
P-70 A/B	Leq,D	98.1		114.17	-52.1	5.0	-22.8	-0.5	-0.25	0.0	1.1	0.0	0.0	28.5
P-73 A/B	Leq,D	98.5		78.63	-48.9	4.5	-14.3	-0.3		0.0	0.4	0.0	0.0	39.9
P-251 A/B	Leq,D	98.2		215.99	-57.7	5.5	-12.8	-0.7	-1.21	0.0	0.7	0.0	0.0	32.0
P-252 A/B	Leq,D	98.2		219.47	-57.8	5.5	-16.1	-0.7	-1.78	0.0	0.4	0.0	0.0	27.7
P-253	Leq,D	98.2		213.30	-57.6	5.4	-16.1	-0.7	-1.80	0.0	0.4	0.0	0.0	27.9
P-254 A/B	Leq,D	98.2		206.60	-57.3	5.4	-12.9	-0.7	-1.36	0.0	0.3	0.0	0.0	31.7
P-255 A/B	Leq,D	98.2		209.44	-57.4	5.4	-12.8	-0.7	-1.32	0.0	0.3	0.0	0.0	31.7
P-255 A/B	Leq,D	98.2		222.21	-57.9	5.5	-14.1	-0.7	-1.13	0.0	1.1	0.0	0.0	30.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		213.15	-57.6	5.4	-12.8	-0.7	-1.26	0.0	0.7	0.0	0.0	32.0
P-259 A/B	Leq,D	98.2		219.00	-57.8	5.5	-12.6	-0.7	-1.17	0.0	0.6	0.0	0.0	31.9
P-260	Leq,D	99.1		235.70	-58.4	5.5	-12.5	-0.8	-1.63	0.0	0.6	0.0	0.0	31.9
P-261 A/B	Leq,D	98.0		256.12	-59.2	5.5	-13.5	-0.8	-0.98	0.0	0.1	0.0	0.0	29.2
P-262 A/B	Leq,D	99.1		243.01	-58.7	5.5	-13.7	-0.8	-1.53	0.0	0.8	0.0	0.0	30.7
P-263 A/B	Leq,D	99.4		239.60	-58.6	5.5	-12.4	-0.8	-1.60	0.0	0.6	0.0	0.0	32.2
P-270 A/B	Leq,D	98.5		175.19	-55.9	5.3	-17.4	-0.5	-2.01	0.0	0.0	0.0	0.0	28.0
P-271 A/B	Leq,D	98.2		198.65	-57.0	5.4	-17.5	-0.6	-1.39	0.0	0.5	0.0	0.0	27.6
P-272 A/B	Leq,D	98.2		202.48	-57.1	5.4	-17.0	-0.6	-1.39	0.0	0.7	0.0	0.0	28.2
P-273 A/B	Leq,D	98.5		177.65	-56.0	5.3	-17.6	-0.6	-2.04	0.0	0.0	0.0	0.0	27.7
P-275 A/B/C	Leq,D	98.2		204.61	-57.2	5.4	-16.4	-0.6	-1.94	0.0	0.3	0.0	0.0	27.8
P-305	Leq,D	99.3		127.54	-53.1	5.1	-17.8	-0.4	-0.30	0.0	0.8	0.0	0.0	33.5
P-306	Leq,D	100.8		119.17	-52.5	5.0	-14.1	-0.4	-0.26	0.0	0.0	0.0	0.0	38.6
P-309	Leq,D	99.3		125.53	-53.0	5.1	-17.9	-0.4	-0.30	0.0	0.1	0.0	0.0	32.9
P-328	Leq,D	100.8		114.33	-52.2	5.0	-14.0	-0.4	-0.24	0.0	0.0	0.0	0.0	39.0
P-329	Leq,D	100.8		116.75	-52.3	5.0	-14.2	-0.4	-0.26	0.0	0.0	0.0	0.0	38.6
P-353	Leq,D	98.5		133.78	-53.5	4.5	-9.0	-0.5	-0.75	0.0	0.9	0.0	0.0	40.0
P-358 A/B	Leq,D	99.4		136.59	-53.7	5.1	-21.1	-0.5	-1.00	0.0	0.0	0.0	0.0	28.3
P-359 A/B	Leq,D	99.4		132.85	-53.5	5.1	-15.0	-0.4	-0.92	0.0	1.0	0.0	0.0	35.7
P-360 A/B	Leq,D	99.4		125.86	-53.0	5.1	-14.9	-0.4	-0.87	0.0	0.9	0.0	0.0	36.2
P-361A	Leq,D	98.1		138.50	-53.8	4.5	-20.3	-0.5	-0.34	0.0	0.0	0.0	0.0	27.7
P-371 A/B	Leq,D	98.0		353.21	-62.0	5.4	-14.8	-1.1	-2.14	0.0	0.5	0.0	0.0	23.9
P-373 A/B	Leq,D	98.0		338.91	-61.6	5.4	-13.1	-1.1	-2.14	0.0	0.5	0.0	0.0	26.0
P-374 A/B	Leq,D	98.0		341.88	-61.7	5.4	-15.0	-1.0	-2.12	0.0	0.2	0.0	0.0	23.7
P-375 A/B	Leq,D	98.0		348.72	-61.8	5.4	-14.9	-1.1	-0.99	0.0	0.2	0.0	0.0	24.8
P-376	Leq,D	98.0		343.75	-61.7	5.4	-15.0	-1.0	-2.11	0.0	0.3	0.0	0.0	23.8
P-376 A/B	Leq,D	98.0		335.84	-61.5	5.4	-13.2	-1.0	-2.17	0.0	0.4	0.0	0.0	25.9
P-377	Leq,D	98.0		345.56	-61.8	5.4	-15.0	-1.1	-2.10	0.0	0.3	0.0	0.0	23.8
P-1101 A	Leq,D	98.9		98.39	-50.9	3.9	-13.3	-0.3		0.0	0.8	0.0	0.0	39.1
P-1103	Leq,D	98.9		98.65	-50.9	3.9	-23.8	-0.5		0.0	2.7	0.0	0.0	30.3
P-1105 A/B/C	Leq,D	98.9		98.00	-50.8	3.9	-13.3	-0.3		0.0	0.0	0.0	0.0	38.4
P-1800	Leq,D	98.9		58.52	-46.3	4.0	-24.8	-0.3		0.0	3.0	0.0	0.0	34.4
P-1801	Leq,D	98.9		90.73	-50.1	4.7	-24.8	-0.5		0.0	0.1	0.0	0.0	28.3
P-1802	Leq,D	98.9		92.31	-50.3	4.7	-24.7	-0.5		0.0	3.5	0.0	0.0	31.6
P-1803	Leq,D	99.1		146.83	-54.3	5.2	-21.6	-0.5		0.0	1.3	0.0	0.0	29.2
P-1804	Leq,D	99.1		129.36	-53.2	5.1	-21.8	-0.5		0.0	3.0	0.0	0.0	31.7
P-1805	Leq,D	99.1		129.05	-53.2	5.1	-20.2	-0.4		0.0	1.1	0.0	0.0	31.5
P-1806	Leq,D	99.1		153.56	-54.7	5.2	-20.4	-0.5	-0.86	0.0	0.1	0.0	0.0	28.0
P-1809 A	Leq,D	98.9		67.99	-47.6	4.3	-24.8	-0.4		0.0	2.4	0.0	0.0	32.7
P-1810 A/B/C	Leq,D	99.0		140.51	-53.9	5.2	-14.3	-0.5		0.0	1.4	0.0	0.0	36.8
P-1811 A/B	Leq,D	99.1		151.15	-54.6	5.2	-20.6	-0.5	-0.75	0.0	2.5	0.0	0.0	30.4
P-1811 A/B	Leq,D	99.1		128.67	-53.2	5.1	-14.0	-0.4		0.0	0.3	0.0	0.0	36.9
P-1847 A/B	Leq,D	99.4		214.73	-57.6	5.5	-22.9	-0.8		0.0	0.4	0.0	0.0	23.9
P-1849 A/B	Leq,D	99.4		213.69	-57.6	5.4	-23.1	-0.8		0.0	1.9	0.0	0.0	25.3
P-1853	Leq,D	99.1		175.38	-55.9	5.3	-23.9	-0.8		0.0	8.0	0.0	0.0	31.9
Piping Furnace Tanks	Leq,D	87.1	72	321.42	-61.1	3.8	-17.6	-4.5	-1.44	0.0	1.1	0.0	0.0	7.2
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	316.95	-61.0	4.0	-17.4	-4.4	-1.85	0.0	0.9	0.0	0.0	18.6
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	358.09	-62.1	4.8	-21.7	-2.5	-1.62	0.0	1.5	0.0	0.0	33.0
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	355.12	-62.0	4.8	-23.5	-5.9	-1.58	0.0	1.1	0.0	0.0	28.0
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	197.28	-56.9	3.3	-24.7	-1.0		0.0	0.6	0.0	0.0	31.9
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	213.98	-57.6	3.1	-24.8	-1.1		0.0	0.7	0.0	0.0	31.5
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	202.82	-57.1	3.4	-24.2	-0.9		0.0	0.8	0.0	0.0	26.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	174.19	-55.8	3.0	-24.1	-0.8		0.0	0.9	0.0	0.0	34.4
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	185.86	-56.4	3.4	-21.1	-0.7		0.0	0.1	0.0	0.0	29.2
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	207.16	-57.3	3.4	-22.3	-0.8		0.0	1.0	0.0	0.0	27.6
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	194.24	-56.8	3.0	-20.3	-0.6		0.0	0.2	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	178.38	-56.0	3.4	-18.8	-0.6		0.0	0.0	0.0	0.0	34.1
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	193.71	-56.7	3.0	-21.7	-0.7		0.0	0.2	0.0	0.0	37.2
PSA Pipe 3" Lagging	Leq,D	80.6	11	346.06	-61.8	3.2	-12.4	-2.3	-0.69	0.0	0.1	0.0	0.0	6.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	360.16	-62.1	4.8	-21.4	-2.4	-1.75	0.0	1.6	0.0	0.0	35.2
Reformer-Burner Reformer East	Leq,D	97.3	269	327.50	-61.3	3.0	-24.7	-2.1	0.00	0.0	9.6	0.0	0.0	24.7
Reformer-Burner Reformer North	Leq,D	95.9	192	327.69	-61.3	3.2	-24.6	-2.0	-0.02	0.0	0.0	0.0	0.0	11.2
Reformer-Burner Reformer South	Leq,D	95.8	191	316.32	-61.0	3.3	-14.1	-1.2	-0.57	0.0	1.7	0.0	0.0	26.7
Reformer-Burner Reformer West	Leq,D	97.3	268	316.62	-61.0	3.4	-11.0	-1.2	-0.66	0.0	0.0	0.0	0.0	29.8
RFG A from battery to process	Leq,D	99.4	87	312.42	-60.9	3.9	-17.5	-4.4	-1.84	0.0	0.8	0.0	0.0	19.5
RFG A from battery to process w NC	Leq,D	115.2	42	357.18	-62.0	4.8	-23.1	-5.6	-1.62	0.0	1.5	0.0	0.0	29.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Stack Noise	Leq,D	108.4		302.43	-60.6	3.0	-7.4	-0.7		-5.5	0.0	0.0	0.0	37.1	
Steam Turbine-Facade 01	Leq,D	99.6	29	350.15	-61.9	5.2	-17.7	-2.3	-2.03	0.0	0.6	0.0	0.0	21.4	
Steam Turbine-Facade 02	Leq,D	96.2	13	348.58	-61.8	5.2	-17.3	-2.3	-1.99	0.0	2.7	0.0	0.0	20.7	
Steam Turbine-Facade 03	Leq,D	99.6	29	352.74	-61.9	5.2	-23.3	-3.7	-1.95	0.0	7.9	0.0	0.0	21.8	
Steam Turbine-Facade 04	Leq,D	96.2	13	354.34	-62.0	5.2	-23.3	-3.7	-1.99	0.0	2.5	0.0	0.0	13.1	
Steam Turbine-Roof 01	Leq,D	99.7	30	351.45	-61.9	4.7	-16.3	-2.4	-2.02	0.0	2.6	0.0	0.0	24.4	
Tank Farm Pump 1	Leq,D	99.0	3	238.27	-58.5	5.1	-19.7	-1.1		0.0	0.3	0.0	0.0	25.1	
Tank Farm Pump 2	Leq,D	99.0	3	234.95	-58.4	5.1	-23.0	-1.3		0.0	2.1	0.0	0.0	23.6	
Tank Farm Pump 3	Leq,D	99.0	3	234.15	-58.4	5.1	-23.0	-1.3		0.0	0.9	0.0	0.0	22.3	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	484.60	-64.7	4.8	-14.7	-1.2		0.0	0.2	-11.8	0.0	25.1	
XF-1502 Splitter Area 1	Leq,D	104.5		414.04	-63.3	3.6	-8.5	-1.8	-0.89	-3.6	0.0	0.0	0.0	30.0	
XF-1502 Splitter Area 2	Leq,D	104.5		411.62	-63.3	3.6	-8.5	-1.8	-0.86	-3.6	0.0	0.0	0.0	30.1	
XF-1504 Splitter Area 1	Leq,D	104.5		410.69	-63.3	3.6	-8.5	-1.8	-0.81	-3.6	0.0	0.0	0.0	30.1	
XF-1504 Splitter Area 2	Leq,D	104.5		408.25	-63.2	3.5	-8.5	-1.8	-0.79	-3.6	0.0	0.0	0.0	30.2	
XF 251, 250, 271, 270	Leq,D	101.1	128	201.95	-57.1	3.0	-7.3	-0.5	-1.46	-2.3	0.1	0.0	0.0	35.5	
XF 260, 261A, 261 B	Leq,D	99.9	97	244.35	-58.8	3.0	-7.1	-0.5	-0.61	-2.3	0.1	0.0	0.0	33.6	
XF 304, XF 321	Leq,D	110.5	56	483.42	-64.7	3.9	-9.7	-0.9	-0.39	-2.0	0.1	0.0	0.0	36.9	
XF 313, XF 314	Leq,D	113.0	18	502.75	-65.0	4.4	-13.6	-1.2	-0.90	-2.7	0.6	0.0	0.0	34.6	
XF 335-1, XF 335-2	Leq,D	113.4	54	490.91	-64.8	4.0	-11.5	-1.3	-0.42	-2.1	0.1	0.0	0.0	37.4	
XF 353A/B	Leq,D	95.4	35	125.80	-53.0	3.0	-7.6	-0.3	-0.67	-2.2	0.2	0.0	0.0	34.9	
XF 353A/B	Leq,D	95.4	35	150.32	-54.5	3.0	-7.7	-0.3	-1.16	-2.2	0.0	0.0	0.0	32.5	
XF 354A/B	Leq,D	95.4	35	131.48	-53.4	3.0	-7.0	-0.3	-0.49	-2.4	0.8	0.0	0.0	35.7	
XF 503	Leq,D	113.0	21	438.74	-63.8	4.3	-16.0	-1.2	-0.84	-2.9	0.1	0.0	0.0	32.8	
XF - 1601	Leq,D	96.6		393.22	-62.9	3.0	-7.0	-0.9	-0.06	-1.8	0.0	0.0	0.0	27.0	
XF - 1602	Leq,D	96.6		388.79	-62.8	3.0	-7.0	-0.9	-0.08	-1.8	0.0	0.0	0.0	27.1	
XF Module 1510	Leq,D	108.3		413.68	-63.3	3.8	-8.5	-1.8	-1.05	-3.6	0.3	0.0	0.0	34.1	
XF Module 1519	Leq,D	109.0		417.08	-63.4	3.8	-8.5	-1.8	-1.21	-3.6	0.0	0.0	0.0	34.3	
xxxx xxxx xxxx xxxx	Leq,D		228								12.7			17.8	
xxxx xxxx xxxx xxxx	Leq,D		520								14.0			27.2	
xxxx xxxx xxxx xxxx	Leq,D		1341								7.8			46.3	
xxxx xxxx xxxx xxxx	Leq,D		450								3.0			40.0	
Receiver S-5 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 59.2 dB(A)		Ld 7-19 dB(A)		Leq,N 58.8 dB(A)		Le 19-22 dB(A)		CNEL 65.5 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	278.48	-59.9	4.9	-21.0	-1.3	-1.72	0.0	1.3	0.0	0.0	26.7	
18-1855 A/B	Leq,D	98.8		200.93	-57.1	5.1	-15.1	-0.6	-0.96	0.0	2.3	0.0	0.0	32.4	
18-1856 A/B	Leq,D	98.8		197.52	-56.9	5.0	-15.0	-0.6	-1.34	0.0	1.7	0.0	0.0	31.6	
18-1857 A/B	Leq,D	98.8		204.43	-57.2	5.1	-15.1	-0.6	-0.89	0.0	2.3	0.0	0.0	32.3	
18-1858 A/B	Leq,D	98.8		206.85	-57.3	4.8	-14.8	-0.7	-0.85	0.0	2.7	0.0	0.0	32.7	
18-PK 1802 Air Compressor Package	Leq,D	103.1		183.11	-56.2	5.4	-13.1	-0.3	-1.50	0.0	0.9	0.0	0.0	38.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	231.71	-58.3	4.7	-7.0	-1.5		0.0	2.3	-2.7	0.0	46.4	
Air Compressor C 1	Leq,D	110.0	5	431.62	-63.7	5.6	-22.4	-1.2	-0.64	0.0	8.0	0.0	0.0	35.6	
Air Compressor Pump	Leq,D	100.3		239.57	-58.6	5.0	-24.0	-2.5	-0.74	0.0	2.8	0.0	0.0	22.3	
Blower F 401	Leq,D	113.0		350.60	-61.9	5.2	-17.1	-0.4		0.0	2.9	0.0	0.0	41.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	52.13	-45.3	3.0	-23.2	-0.2		0.0	8.3	0.0	0.0	41.1	
Boiler Feed Water Pump A	Leq,D	97.1	3	219.42	-57.8	5.0	-13.0	-0.8	-1.80	0.0	0.7	0.0	0.0	29.4	
Boiler Feed Water Pump B	Leq,D	97.1	3	216.30	-57.7	5.0	-13.0	-0.7	-1.76	0.0	2.0	0.0	0.0	30.8	
C370 A Motor	Leq,D	103.6	3	271.45	-59.7	4.4	-12.5	-1.0	-0.89	0.0	2.5	0.0	0.0	36.5	
C370 B Motor	Leq,D	108.6	3	264.56	-59.4	4.4	-14.0	-0.9	-0.90	0.0	2.1	0.0	0.0	39.8	
C370A	Leq,D	103.8	5	274.73	-59.8	4.5	-12.4	-1.0	-0.88	0.0	2.5	0.0	0.0	36.7	
C370B	Leq,D	103.8	5	267.93	-59.6	4.5	-15.1	-0.9	-0.92	0.0	2.4	0.0	0.0	34.2	
C-270 A	Leq,D	106.3	6	118.43	-52.5	3.0	-16.7	-0.4	-0.86	0.0	1.7	0.0	0.0	40.6	
C-270 B	Leq,D	106.3	6	120.73	-52.6	3.0	-16.6	-0.4	-0.68	0.0	1.6	0.0	0.0	40.6	
C-270 C	Leq,D	106.3	6	123.23	-52.8	3.0	-16.8	-0.4	-0.46	0.0	2.0	0.0	0.0	40.8	
C-301 Compressor	Leq,D	106.8	3	135.24	-53.6	3.1	-14.6	-0.5	-1.43	0.0	0.3	0.0	0.0	40.1	
C-301 Motor	Leq,D	106.8	4	136.43	-53.7	3.2	-15.9	-0.8	-1.62	0.0	1.4	0.0	0.0	39.4	
C-351 Compressor	Leq,D	106.8	4	117.04	-52.4	3.0	-14.1	-0.4	-1.07	0.0	3.3	0.0	0.0	45.2	
C-351 Motor	Leq,D	106.8	5	112.49	-52.0	3.0	-12.5	-0.7	-1.07	0.0	3.5	0.0	0.0	47.0	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	237.64	-58.5	4.9	-5.3	-0.5		0.0	2.3	-33.5	0.0	44.1	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	398.72	-63.0	5.0	-13.3	-1.1	-0.92	1.7	3.5	0.0	0.0	36.7	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	398.66	-63.0	5.0	-10.0	-1.4	-0.96	0.0	1.8	0.0	0.0	32.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	409.54	-63.2	5.0	-20.5	-0.9	-0.92	-7.4	9.5	0.0	0.0	28.0	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	405.05	-63.1	5.0	-15.2	-1.1	-1.00	2.9	0.9	0.0	0.0	39.0	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	398.58	-63.0	5.0	-14.1	-1.0	-0.92	2.8	3.8	0.0	0.0	36.3	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	416.01	-63.4	5.0	-20.4	-1.2	-0.99	-7.8	2.0	0.0	0.0	13.8	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	345.44	-61.8	4.9	-16.3	-0.8	-0.25	2.4	2.6	0.0	0.0	28.7	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	354.30	-62.0	4.9	-20.9	-1.1	-0.64	-7.7	2.0	0.0	0.0	12.4	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	327.51	-61.3	4.5	-9.1	-1.1	-0.43	2.6	2.2	0.0	0.0	38.0
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	339.88	-61.6	4.7	-21.8	-1.1	-0.57	-7.7	5.3	0.0	0.0	17.9
Cooling Tower M 512	Leq,D	95.7		345.44	-61.8	5.3	-17.9	-1.3	-0.60	0.0	5.9	0.0	0.0	25.5
Cooling Tower M 513	Leq,D	95.7		346.40	-61.8	5.3	-17.8	-1.3	-0.60	0.0	5.9	0.0	0.0	25.5
Cooling Tower M 514	Leq,D	95.7		344.25	-61.7	5.3	-17.9	-1.2	-0.60	0.0	5.5	0.0	0.0	25.0
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	247.34	-58.9	3.0	-8.8	-0.5	-1.60	-2.1	0.1	0.0	0.0	27.0
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	289.95	-60.2	4.8	-8.4	-0.1	-0.55	0.0	0.4	0.0	0.0	31.4
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	292.44	-60.3	4.8	-14.6	-0.1	-0.40	0.0	2.8	0.0	0.0	25.3
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	290.50	-60.3	4.2	-10.1	-0.1	-0.35	0.0	0.1	0.0	0.0	26.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	288.43	-60.2	4.7	-8.6	-0.1	-0.09	0.0	0.0	0.0	0.0	29.0
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	290.90	-60.3	4.8	-15.8	-0.1		0.0	0.6	0.0	0.0	24.6
FD Motor	Leq,D	103.3	2	289.57	-60.2	5.0	-15.5	-1.4	-1.82	0.0	0.5	0.0	0.0	29.8
Feed Compressor -B Motor	Leq,D	103.8	5	237.00	-58.5	4.2	-16.4	-1.2	-0.94	0.0	3.2	0.0	0.0	34.2
Feed Compressor-A Compressor	Leq,D	104.0	5	249.77	-58.9	4.5	-15.3	-0.8	-0.93	0.0	2.4	0.0	0.0	34.9
Feed Compressor-A Motor	Leq,D	103.8	6	245.48	-58.8	4.2	-16.2	-1.2	-1.09	0.0	3.2	0.0	0.0	33.9
Feed Compressor-B Compressor	Leq,D	104.0	7	241.91	-58.7	4.4	-15.9	-0.8	-0.78	0.0	2.1	0.0	0.0	34.4
H2S Compressor 18-C-271	Leq,D	105.3	6	406.40	-63.2	5.3	-17.6	-1.2	-0.27	0.0	6.0	0.0	0.0	34.4
Heater # 5-Heater	Leq,D	91.1	13	56.27	-46.0	3.1	-20.2	-0.1		0.0	4.0	0.0	0.0	34.8
Heater # 5-Heater	Leq,D	91.1	13	58.90	-46.4	3.1	-18.6	-0.1		0.0	1.3	0.0	0.0	33.3
Heater # 5-Heater	Leq,D	91.1	13	54.02	-45.6	3.1	-12.3	-0.1		0.0	1.7	0.0	0.0	40.7
Hydro Heater H-402	Leq,D	98.1		365.49	-62.2	5.4	-17.6	-0.6		0.0	3.9	0.0	0.0	26.9
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	276.31	-59.8	4.9	-11.7	-0.1	-0.29	0.0	0.0	0.0	0.0	20.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	274.09	-59.7	4.9	-6.3	-0.1	-0.37	0.0	0.7	0.0	0.0	26.5
ID Fan-ID Fan - North	Leq,D	92.2	8	277.20	-59.8	4.9	-12.7	-0.1	-0.27	0.0	0.1	0.0	0.0	24.4
ID Fan-ID Fan - North 2	Leq,D	91.4	7	275.53	-59.8	4.9	-13.6	-0.1	-0.28	0.0	0.0	0.0	0.0	22.6
ID Fan-ID Fan - South	Leq,D	92.3	9	274.14	-59.8	4.9	-6.3	-0.1	-0.37	0.0	0.0	0.0	0.0	30.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	274.10	-59.8	4.9	-6.3	-0.1	-0.37	0.0	0.0	0.0	0.0	29.8
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	275.44	-59.8	4.4	-6.2	-0.1	-0.39	0.0	0.0	0.0	0.0	31.8
Motor & Pump P 56A/B	Leq,D	93.7		382.04	-62.6	5.4	-20.9	-1.6	-0.19	0.0	10.0	0.0	0.0	23.7
Motor & Pump P 120/121	Leq,D	96.2	2	422.15	-63.5	5.5	-21.1	-1.3	-1.11	0.0	4.2	0.0	0.0	18.8
Motor & Pump P 211/212	Leq,D	93.7		381.24	-62.6	5.5	-13.7	-1.6	-0.72	0.0	2.6	0.0	0.0	23.1
Motor & Pump P 215/214	Leq,D	94.6		384.59	-62.7	5.5	-12.4	-1.7	-0.73	0.0	2.7	0.0	0.0	25.3
Motor & Pump P 216	Leq,D	98.3		386.83	-62.7	5.4	-20.9	-2.0	-0.20	0.0	10.3	0.0	0.0	28.1
Motor & Pump P 217/218	Leq,D	93.7		382.59	-62.6	5.6	-14.5	-1.6	-0.73	0.0	2.6	0.0	0.0	22.4
Motor & Pump P 300	Leq,D	97.1	2	432.22	-63.7	5.6	-22.0	-1.4	-0.51	0.0	5.4	0.0	0.0	20.4
Motor & Pump P 301	Leq,D	102.1	2	431.05	-63.7	5.5	-22.4	-1.5	-0.49	0.0	6.4	0.0	0.0	26.0
Motor & Pump P 302	Leq,D	97.1	2	433.47	-63.7	5.6	-21.8	-1.4	-0.53	0.0	5.3	0.0	0.0	20.6
Motor & Pump P 303	Leq,D	97.1	2	434.58	-63.8	5.5	-21.4	-1.4	-0.55	0.0	4.8	0.0	0.0	20.4
Motor & Pump P 305	Leq,D	97.5	2	435.63	-63.8	5.5	-21.1	-1.3	-0.57	0.0	4.2	0.0	0.0	20.4
Motor & Pump P 306	Leq,D	112.6	4	441.98	-63.9	5.5	-19.9	-1.3	-1.55	0.0	4.0	0.0	0.0	35.5
Motor & Pump P 307	Leq,D	102.1	2	427.69	-63.6	5.5	-23.0	-1.6	-0.41	0.0	3.1	0.0	0.0	22.1
Motor & Pump P 309	Leq,D	97.5	2	436.67	-63.8	5.5	-20.9	-1.3	-0.60	0.0	3.9	0.0	0.0	20.3
Motor & Pump P 312	Leq,D	101.5	2	412.88	-63.3	5.6	-22.6	-1.6		0.0	7.8	0.0	0.0	27.4
Motor & Pump P 313	Leq,D	101.5	2	411.71	-63.3	5.6	-20.7	-1.3	-0.50	0.0	6.5	0.0	0.0	27.9
Motor & Pump P 315	Leq,D	102.9	2	407.69	-63.2	5.5	-19.5	-1.2	-0.53	0.0	2.2	0.0	0.0	26.2
Motor & Pump P 316	Leq,D	102.9	2	406.41	-63.2	5.5	-18.7	-1.2	-0.66	0.0	2.4	0.0	0.0	27.1
Motor & Pump P 317	Leq,D	102.9	2	405.06	-63.1	5.5	-18.6	-1.2	-0.72	0.0	2.3	0.0	0.0	27.0
Motor & Pump P 318	Leq,D	100.2	1	408.60	-63.2	5.6	-19.8	-1.2	-0.79	0.0	2.3	0.0	0.0	23.2
Motor & Pump P 319	Leq,D	100.2	1	409.57	-63.2	5.6	-19.7	-1.2	-0.76	0.0	2.3	0.0	0.0	23.2
Motor & Pump P 327	Leq,D	111.2	3	448.12	-64.0	5.5	-24.2	-2.7		0.0	6.5	0.0	0.0	32.4
Motor & Pump P 328	Leq,D	109.9	5	437.82	-63.8	5.4	-20.9	-1.3	-0.76	0.0	4.5	0.0	0.0	33.0
Motor & Pump P 329	Leq,D	110.2	5	439.86	-63.9	5.5	-21.0	-1.4	-1.19	0.0	5.0	0.0	0.0	33.1
Motor & Pump P 451	Leq,D	93.7		360.17	-62.1	5.4	-21.1	-1.7		0.0	9.2	0.0	0.0	23.3
Motor & Pump P 453	Leq,D	93.7		350.61	-61.9	5.3	-17.3	-1.4		0.0	6.2	0.0	0.0	24.5
Motor & Pump P 454	Leq,D	93.7		361.59	-62.2	5.4	-21.0	-1.7		0.0	3.3	0.0	0.0	17.5
Motor & Pump P 457	Leq,D	93.7		349.67	-61.9	5.3	-6.9	-2.1		0.0	1.3	0.0	0.0	29.4
Motor & Pump P 458	Leq,D	93.7		359.28	-62.1	5.4	-21.2	-1.7		0.0	9.4	0.0	0.0	23.4
Motor & Pump P 459	Leq,D	93.7		362.22	-62.2	5.4	-21.0	-1.7		0.0	2.2	0.0	0.0	16.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		368.86	-62.3	5.4	-21.6	-1.7	-0.87	0.0	3.1	0.0	0.0	18.3
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		370.05	-62.4	5.4	-21.3	-1.6	-0.91	0.0	3.1	0.0	0.0	18.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		388.26	-62.8	5.5	-22.6	-2.0	-1.27	0.0	3.8	0.0	0.0	16.1
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		389.14	-62.8	5.5	-13.1	-1.7	-1.25	0.0	2.9	0.0	0.0	25.0
Motor & Pump P 1601 A	Leq,D	96.3	2	349.67	-61.9	5.2	-22.4	-1.7	-1.00	0.0	4.1	0.0	0.0	18.6
Motor & Pump P 1601 B	Leq,D	96.3	2	348.62	-61.8	5.2	-22.4	-1.7	-1.00	0.0	4.1	0.0	0.0	18.6
Motor & Pump P 1602 A	Leq,D	96.3	2	347.69	-61.8	5.2	-16.1	-1.6	-1.00	0.0	3.0	0.0	0.0	24.0
Motor & Pump P 1602 B	Leq,D	96.5	2	346.69	-61.8	5.2	-13.2	-1.6	-1.00	0.0	3.2	0.0	0.0	27.4
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	362.69	-62.2	5.5	-22.5	-1.9	-0.82	0.0	3.1	0.0	0.0	17.7

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	366.22	-62.3	5.5	-22.9	-2.0	-0.80	0.0	3.3	0.0	0.0	17.4	
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	367.99	-62.3	5.5	-22.1	-1.8	-1.05	0.0	3.3	0.0	0.0	18.1	
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	370.68	-62.4	5.4	-21.5	-1.7	-0.83	0.0	4.1	0.0	0.0	19.8	
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	371.94	-62.4	5.4	-21.7	-1.7	-0.75	0.0	3.8	0.0	0.0	19.4	
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	367.11	-62.3	5.5	-21.1	-1.6	-1.04	0.0	3.7	0.0	0.0	19.5	
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	368.67	-62.3	5.5	-21.0	-1.6	-1.11	0.0	3.7	0.0	0.0	19.4	
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	371.35	-62.4	5.5	-21.1	-1.6	-1.15	0.0	3.7	0.0	0.0	19.1	
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	370.13	-62.4	5.5	-21.0	-1.6	-1.13	0.0	3.6	0.0	0.0	19.3	
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	414.53	-63.3	5.3	-14.9	-1.5	-1.21	0.0	3.0	0.0	0.0	31.5	
P-2 A/B	Leq,D	98.5		98.43	-50.9	4.8	-16.4	-0.3		0.0	0.1	0.0	0.0	35.8	
P-50 A/B	Leq,D	98.1		103.38	-51.3	4.9	-13.3	-0.3	-0.92	0.0	0.4	0.0	0.0	37.5	
P-51 A/B	Leq,D	98.1		99.28	-50.9	4.8	-13.5	-0.3	-0.83	0.0	0.1	0.0	0.0	37.4	
P-060 A/B	Leq,D	98.1		113.49	-52.1	5.0	-12.9	-0.4	-1.10	0.0	0.0	0.0	0.0	36.6	
P-63	Leq,D	98.5		75.09	-48.5	4.4	-15.1	-0.2	-0.13	0.0	0.2	0.0	0.0	39.1	
P-70 A/B	Leq,D	98.1		108.96	-51.7	4.9	-13.1	-0.4	-1.05	0.0	0.4	0.0	0.0	37.2	
P-73 A/B	Leq,D	98.5		95.80	-50.6	4.8	-21.7	-0.4		0.0	0.0	0.0	0.0	30.6	
P-251 A/B	Leq,D	98.2		168.04	-55.5	5.3	-7.6	-0.7	-0.42	0.0	2.9	0.0	0.0	42.2	
P-252 A/B	Leq,D	98.2		173.80	-55.8	5.3	-7.6	-0.7	-0.70	0.0	2.7	0.0	0.0	41.4	
P-253	Leq,D	98.2		168.92	-55.5	5.3	-15.5	-0.5	-0.79	0.0	4.4	0.0	0.0	35.5	
P-254 A/B	Leq,D	98.2		160.45	-55.1	5.3	-7.7	-0.6	-0.39	0.0	3.1	0.0	0.0	42.7	
P-255 A/B	Leq,D	98.2		162.72	-55.2	5.3	-7.7	-0.6	-0.40	0.0	3.3	0.0	0.0	42.9	
P-255 A/B	Leq,D	98.2		173.27	-55.8	5.3	-20.5	-0.6	-0.45	0.0	2.7	0.0	0.0	28.9	
P-256 A/B	Leq,D	98.2		165.73	-55.4	5.3	-7.6	-0.7	-0.41	0.0	3.4	0.0	0.0	42.8	
P-259 A/B	Leq,D	98.2		170.56	-55.6	5.3	-10.7	-0.6	-0.43	0.0	2.8	0.0	0.0	39.0	
P-260	Leq,D	99.1		187.26	-56.4	5.4	-19.7	-0.6	-0.78	0.0	2.6	0.0	0.0	29.5	
P-261 A/B	Leq,D	98.0		204.98	-57.2	5.4	-18.9	-0.6	-0.33	0.0	2.5	0.0	0.0	28.8	
P-262 A/B	Leq,D	99.1		193.52	-56.7	5.4	-19.6	-0.6	-0.63	0.0	2.6	0.0	0.0	29.5	
P-263 A/B	Leq,D	99.4		190.63	-56.6	5.4	-19.7	-0.6	-0.75	0.0	2.6	0.0	0.0	29.8	
P-270 A/B	Leq,D	98.5		138.79	-53.8	5.2	-14.6	-0.5	-1.60	0.0	1.6	0.0	0.0	34.8	
P-271 A/B	Leq,D	98.2		154.26	-54.8	5.2	-15.7	-0.5	-0.53	0.0	2.5	0.0	0.0	34.4	
P-272 A/B	Leq,D	98.2		157.21	-54.9	5.3	-7.8	-0.6	-0.43	0.0	1.1	0.0	0.0	40.8	
P-273 A/B	Leq,D	98.5		140.26	-53.9	5.2	-14.6	-0.5	-1.62	0.0	3.6	0.0	0.0	36.7	
P-275 A/B/C	Leq,D	98.2		162.41	-55.2	5.3	-17.4	-0.5	-0.71	0.0	5.4	0.0	0.0	35.1	
P-305	Leq,D	99.3		81.29	-49.2	4.5	-20.3	-0.3	-0.20	0.0	3.0	0.0	0.0	36.9	
P-306	Leq,D	100.8		76.12	-48.6	4.5	-20.2	-0.3	-0.18	0.0	2.5	0.0	0.0	38.4	
P-309	Leq,D	99.3		80.02	-49.1	4.5	-21.0	-0.3	-0.20	0.0	3.1	0.0	0.0	36.3	
P-328	Leq,D	100.8		73.48	-48.3	4.4	-19.9	-0.3	-0.17	0.0	0.7	0.0	0.0	37.3	
P-329	Leq,D	100.8		74.84	-48.5	4.4	-19.8	-0.3	-0.18	0.0	1.1	0.0	0.0	37.6	
P-353	Leq,D	98.5		92.27	-50.3	3.8	-16.8	-0.3	-0.53	0.0	3.5	0.0	0.0	37.8	
P-358 A/B	Leq,D	99.4		108.56	-51.7	4.9	-12.9	-0.4	-1.03	0.0	2.1	0.0	0.0	40.4	
P-359 A/B	Leq,D	99.4		103.88	-51.3	4.9	-13.0	-0.4	-0.92	0.0	0.1	0.0	0.0	38.7	
P-360 A/B	Leq,D	99.4		94.83	-50.5	4.8	-13.3	-0.3	-0.71	0.0	2.1	0.0	0.0	41.5	
P-361A	Leq,D	98.1		133.86	-53.5	4.5	-23.9	-0.6	-0.44	0.0	5.5	0.0	0.0	29.6	
P-371 A/B	Leq,D	98.0		305.33	-60.7	5.3	-18.0	-0.9	-0.98	0.0	4.4	0.0	0.0	27.1	
P-373 A/B	Leq,D	98.0		292.86	-60.3	5.3	-14.3	-0.9	-0.18	0.0	3.6	0.0	0.0	31.1	
P-374 A/B	Leq,D	98.0		295.46	-60.4	5.3	-14.2	-0.9	-0.15	0.0	3.0	0.0	0.0	30.7	
P-375 A/B	Leq,D	98.0		301.53	-60.6	5.3	-17.8	-0.9	-1.07	0.0	6.0	0.0	0.0	29.0	
P-376	Leq,D	98.0		297.10	-60.5	5.3	-14.0	-0.9	-1.05	0.0	3.1	0.0	0.0	29.9	
P-376 A/B	Leq,D	98.0		290.20	-60.2	5.3	-14.4	-0.9	-1.02	0.0	3.6	0.0	0.0	30.4	
P-377	Leq,D	98.0		298.71	-60.5	5.3	-17.8	-0.9	-1.06	0.0	5.5	0.0	0.0	28.6	
P-1101 A	Leq,D	98.9		109.88	-51.8	4.1	-23.8	-0.5		0.0	5.8	0.0	0.0	32.6	
P-1103	Leq,D	98.9		109.27	-51.8	4.1	-23.7	-0.5		0.0	5.6	0.0	0.0	32.6	
P-1105 A/B/C	Leq,D	98.9		112.72	-52.0	4.2	-23.6	-0.5		0.0	6.2	0.0	0.0	33.2	
P-1800	Leq,D	98.9		99.02	-50.9	4.8	-16.0	-0.3		0.0	3.6	0.0	0.0	40.1	
P-1801	Leq,D	98.9		144.45	-54.2	5.2	-24.8	-0.8		0.0	2.2	0.0	0.0	26.5	
P-1802	Leq,D	98.9		145.41	-54.2	5.2	-24.8	-0.8		0.0	3.5	0.0	0.0	27.7	
P-1803	Leq,D	99.1		147.22	-54.4	5.2	-12.6	-0.5	-1.25	0.0	1.5	0.0	0.0	37.0	
P-1804	Leq,D	99.1		136.10	-53.7	5.1	-23.0	-0.5	-0.34	0.0	0.0	0.0	0.0	26.7	
P-1805	Leq,D	99.1		137.28	-53.7	5.1	-22.9	-0.5	-0.24	0.0	0.0	0.0	0.0	26.8	
P-1806	Leq,D	99.1		143.65	-54.1	5.2	-12.3	-0.5	-0.08	0.0	1.1	0.0	0.0	38.4	
P-1809 A	Leq,D	98.9		111.93	-52.0	4.9	-24.9	-0.6		0.0	11.4	0.0	0.0	37.7	
P-1810 A/B/C	Leq,D	99.0		149.12	-54.5	5.2	-21.5	-0.5	-0.30	0.0	1.6	0.0	0.0	29.0	
P-1811 A/B	Leq,D	99.1		144.11	-54.2	5.2	-12.3	-0.5	-0.51	0.0	3.7	0.0	0.0	40.5	
P-1811 A/B	Leq,D	99.1		138.71	-53.8	5.1	-21.5	-0.5	-0.13	0.0	0.9	0.0	0.0	29.2	
P-1847 A/B	Leq,D	99.4		212.31	-57.5	5.4	-22.7	-0.8		0.0	0.0	0.0	0.0	23.9	
P-1849 A/B	Leq,D	99.4		213.23	-57.6	5.4	-23.0	-0.8		0.0	1.7	0.0	0.0	25.2	
P-1853	Leq,D	99.1		123.26	-52.8	5.0	-24.1	-0.6		0.0	2.8	0.0	0.0	29.4	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Piping Furnace Tanks	Leq,D	87.1	72	285.48	-60.1	3.6	-16.7	-4.3	-1.03	0.0	3.5	0.0	0.0	12.0	
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	276.99	-59.8	3.7	-17.8	-4.1	-0.82	0.0	3.4	0.0	0.0	22.9	
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	317.70	-61.0	4.6	-22.0	-2.2	-0.73	0.0	3.1	0.0	0.0	36.3	
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	314.92	-61.0	4.6	-23.6	-5.6	-0.69	0.0	2.7	0.0	0.0	31.6	
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	223.13	-58.0	3.5	-23.9	-1.0		0.0	0.5	0.0	0.0	31.8	
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	230.82	-58.3	3.6	-24.1	-1.0	-0.13	0.0	5.2	0.0	0.0	36.4	
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	212.62	-57.5	3.5	-24.0	-0.9	-0.50	0.0	3.0	0.0	0.0	27.5	
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	194.58	-56.8	3.4	-18.7	-0.6	-0.02	0.0	0.2	0.0	0.0	38.6	
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	196.58	-56.9	3.4	-20.0	-0.7	-0.41	0.0	6.9	0.0	0.0	36.3	
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	218.14	-57.8	3.5	-22.2	-0.8	-0.46	0.0	2.3	0.0	0.0	28.2	
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	202.98	-57.1	3.5	-17.9	-0.7	-0.45	0.0	3.5	0.0	0.0	37.5	
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	191.12	-56.6	3.4	-17.8	-0.6	-0.21	0.0	1.4	0.0	0.0	35.7	
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	211.58	-57.5	3.0	-14.6	-0.7	-0.11	0.0	2.0	0.0	0.0	45.2	
PSA Pipe 3" Lagging	Leq,D	80.6	11	307.69	-60.8	3.1	-13.9	-2.0	-0.45	0.0	2.8	0.0	0.0	9.3	
PSA Skid Additional Piping w NC	Leq,D	116.6	57	319.41	-61.1	4.6	-21.5	-2.2	-0.81	0.0	3.1	0.0	0.0	38.7	
Reformer-Burner Reformer East	Leq,D	97.3	269	294.83	-60.4	3.0	-24.7	-1.9	-0.01	0.0	2.4	0.0	0.0	18.7	
Reformer-Burner Reformer North	Leq,D	95.9	192	292.94	-60.3	3.1	-24.5	-1.9	-0.01	0.0	1.6	0.0	0.0	13.9	
Reformer-Burner Reformer South	Leq,D	95.8	191	284.48	-60.1	3.3	-12.1	-1.1	-1.05	0.0	1.9	0.0	0.0	29.5	
Reformer-Burner Reformer West	Leq,D	97.3	268	282.69	-60.0	3.3	-10.8	-1.1	-1.05	0.0	1.0	0.0	0.0	31.7	
RFG A from battery to process	Leq,D	99.4	87	273.39	-59.7	3.6	-17.8	-4.1	-0.79	0.0	3.2	0.0	0.0	23.8	
RFG A from battery to process w NC	Leq,D	115.2	42	317.23	-61.0	4.6	-23.3	-5.4	-0.71	0.0	3.1	0.0	0.0	32.5	
Stack Noise	Leq,D	108.4		275.61	-59.8	3.0	-6.0	-1.1		-6.0	0.0	0.0	0.0	38.6	
Steam Turbine-Facade 01	Leq,D	99.6	29	307.22	-60.7	5.1	-16.0	-2.3	-0.95	0.0	2.5	0.0	0.0	27.2	
Steam Turbine-Facade 02	Leq,D	96.2	13	306.25	-60.7	5.1	-18.1	-2.1	-0.99	0.0	5.3	0.0	0.0	24.6	
Steam Turbine-Facade 03	Leq,D	99.6	29	310.16	-60.8	5.1	-23.1	-3.4	-0.95	0.0	9.1	0.0	0.0	25.5	
Steam Turbine-Facade 04	Leq,D	96.2	13	311.16	-60.9	5.1	-22.6	-3.3	-0.92	0.0	4.2	0.0	0.0	17.8	
Steam Turbine-Roof 01	Leq,D	99.7	30	308.68	-60.8	4.5	-14.4	-2.5	-0.96	0.0	4.0	0.0	0.0	29.5	
Tank Farm Pump 1	Leq,D	99.0	3	232.65	-58.3	5.1	-12.5	-1.1	-0.30	0.0	0.0	0.0	0.0	31.9	
Tank Farm Pump 2	Leq,D	99.0	3	235.08	-58.4	5.1	-23.0	-1.3		0.0	2.8	0.0	0.0	24.3	
Tank Farm Pump 3	Leq,D	99.0	3	235.90	-58.4	5.1	-22.4	-1.2		0.0	3.4	0.0	0.0	25.5	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	413.32	-63.3	4.6	-5.8	-2.4		0.0	2.4	-11.8	0.0	36.2	
XF-1502 Splitter Area 1	Leq,D	104.5		367.67	-62.3	3.3	-14.1	-1.3	-0.14	-3.0	6.5	0.0	0.0	33.4	
XF-1502 Splitter Area 2	Leq,D	104.5		364.95	-62.2	3.3	-14.2	-1.3	-0.11	-3.0	3.1	0.0	0.0	30.1	
XF-1504 Splitter Area 1	Leq,D	104.5		364.66	-62.2	3.3	-6.6	-1.8	-0.03	-3.9	2.7	0.0	0.0	35.8	
XF-1504 Splitter Area 2	Leq,D	104.5		361.92	-62.2	3.2	-14.1	-1.3	-0.03	-3.0	6.6	0.0	0.0	33.7	
XF 251, 250, 271, 270	Leq,D	101.1	128	158.46	-55.0	3.0	-9.1	-0.3	-0.52	-2.1	1.3	0.0	0.0	38.4	
XF 260, 261A, 261 B	Leq,D	99.9	97	193.57	-56.7	3.0	-12.0	-0.3	0.00	-1.8	1.7	0.0	0.0	33.8	
XF 304, XF 321	Leq,D	110.5	56	434.82	-63.8	3.7	-12.6	-0.7	-0.07	-1.6	2.8	0.0	0.0	38.3	
XF 313, XF 314	Leq,D	113.0	18	456.17	-64.2	4.2	-18.0	-1.1	-0.16	-2.5	2.2	0.0	0.0	33.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	443.13	-63.9	3.7	-13.8	-0.9	-0.08	-1.7	3.7	0.0	0.0	40.4	
XF 353A/B	Leq,D	95.4	35	99.30	-50.9	3.0	-6.6	-0.3	-0.76	-2.5	0.2	0.0	0.0	37.6	
XF 353A/B	Leq,D	95.4	35	122.70	-52.8	3.0	-6.6	-0.3	-1.22	-2.5	1.4	0.0	0.0	36.4	
XF 354A/B	Leq,D	95.4	35	87.38	-49.8	3.0	-6.7	-0.2	-0.34	-2.5	0.9	0.0	0.0	39.7	
XF 503	Leq,D	113.0	21	387.62	-62.8	4.0	-16.0	-1.1	-0.53	-2.8	2.5	0.0	0.0	36.5	
XF - 1601	Leq,D	96.6		347.54	-61.8	3.0	-5.7	-0.9		-2.1	2.5	0.0	0.0	31.6	
XF - 1602	Leq,D	96.6		343.61	-61.7	3.0	-5.7	-0.9		-2.1	2.5	0.0	0.0	31.7	
XF Module 1510	Leq,D	108.3		366.28	-62.3	3.5	-14.6	-1.3	-0.13	-3.0	3.3	0.0	0.0	33.8	
XF Module 1519	Leq,D	109.0		370.10	-62.4	3.5	-23.4	-1.9	-0.02	-3.5	7.4	0.0	0.0	28.7	
xxxx xxxx xxxx xxxx	Leq,D		228								13.0			23.2	
xxxx xxxx xxxx xxxx	Leq,D		520								8.6			30.6	
xxxx xxxx xxxx xxxx	Leq,D		1341								6.4			37.7	
xxxx xxxx xxxx xxxx	Leq,D		450								2.3			39.4	
Receiver S-6 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 71.2	dB(A)	Ld 7-19	dB(A)	Leq,N 70.9	dB(A)	Le 19-22	dB(A)	CNEL 77.6	dB(A)	Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	214.16	-57.6	4.6	-23.2	-1.5	-0.71	0.0	0.4	0.0	0.0	26.5	
18-1855 A/B	Leq,D	98.8		128.34	-53.2	4.5	0.0	-0.7	-0.73	0.0	0.0	0.0	0.0	48.7	
18-1856 A/B	Leq,D	98.8		127.32	-53.1	4.5	-5.1	-0.6	-0.72	0.0	0.0	0.0	0.0	43.8	
18-1857 A/B	Leq,D	98.8		129.72	-53.3	4.5	0.0	-0.7	-0.73	0.0	0.0	0.0	0.0	48.7	
18-1858 A/B	Leq,D	98.8		130.76	-53.3	4.1	-1.6	-0.9	-0.72	0.0	0.0	0.0	0.0	46.4	
18-PK 1802 Air Compressor Package	Leq,D	103.1		114.31	-52.2	5.0	-9.6	-0.2	-0.81	0.0	0.0	0.0	0.0	45.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	104.10	-51.3	3.5	0.0	-1.7		0.0	0.3	-2.7	0.0	57.0	
Air Compressor C 1	Leq,D	110.0	5	343.40	-61.7	5.5	-11.9	-0.7	-1.04	0.0	4.7	0.0	0.0	44.8	
Air Compressor Pump	Leq,D	100.3		151.07	-54.6	4.5	-18.3	-1.7	-0.50	0.0	5.4	0.0	0.0	35.1	
Blower F 401	Leq,D	113.0		259.25	-59.3	4.9	-11.2	-0.3		0.0	0.5	0.0	0.0	47.7	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	52.31	-45.4	3.0	0.0	-0.3		0.0	0.0	0.0	0.0	55.9	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Boiler Feed Water Pump A	Leq,D	97.1	3	151.54	-54.6	4.5	-15.1	-0.6	-0.74	0.0	0.0	0.0	0.0	30.7
Boiler Feed Water Pump B	Leq,D	97.1	3	148.16	-54.4	4.5	-15.2	-0.5	-0.74	0.0	0.0	0.0	0.0	30.7
C370 A Motor	Leq,D	103.6	3	186.95	-56.4	3.7	-10.5	-0.8	-0.80	0.0	2.4	0.0	0.0	41.2
C370 B Motor	Leq,D	108.6	3	181.46	-56.2	3.6	-7.8	-0.9	-0.79	0.0	0.1	0.0	0.0	46.6
C370A	Leq,D	103.8	5	190.66	-56.6	3.8	-9.9	-0.8	-0.81	0.0	3.3	0.0	0.0	42.8
C370B	Leq,D	103.8	5	185.29	-56.3	3.8	-6.2	-1.0	-0.79	0.0	0.3	0.0	0.0	43.5
C-270 A	Leq,D	106.3	6	60.51	-46.6	3.0	-15.1	-0.2	-0.13	0.0	0.0	0.0	0.0	47.2
C-270 B	Leq,D	106.3	6	58.79	-46.4	3.0	-21.9	-0.3	-0.11	0.0	1.0	0.0	0.0	41.6
C-270 C	Leq,D	106.3	6	57.47	-46.2	3.0	-21.9	-0.3		0.0	0.9	0.0	0.0	41.8
C-301 Compressor	Leq,D	106.8	3	89.52	-50.0	3.0	-10.8	-0.4	-0.69	0.0	0.2	0.0	0.0	48.1
C-301 Motor	Leq,D	106.8	4	88.01	-49.9	3.0	-14.7	-0.5	-0.74	0.0	0.2	0.0	0.0	44.1
C-351 Compressor	Leq,D	106.8	4	75.19	-48.5	3.0	-7.9	-0.4	-0.47	0.0	3.1	0.0	0.0	55.6
C-351 Motor	Leq,D	106.8	5	71.19	-48.0	3.0	-4.9	-0.9	-0.45	0.0	0.7	0.0	0.0	56.2
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	103.58	-51.3	3.5	-0.1	-0.3		0.0	0.2	-33.5	0.0	53.2
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	307.66	-60.8	4.7	-9.6	-1.0	-0.93	1.8	1.2	0.0	0.0	40.3
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	307.77	-60.8	4.7	-4.6	-1.1	-0.99	0.0	0.2	0.0	0.0	38.0
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	318.50	-61.1	4.8	-16.0	-0.6	-0.93	-7.5	3.9	0.0	0.0	29.1
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	313.82	-60.9	4.7	-12.0	-1.1	-0.95	2.9	0.1	0.0	0.0	43.5
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	307.61	-60.8	4.7	-9.6	-0.9	-0.94	2.7	2.1	0.0	0.0	41.1
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	324.76	-61.2	4.8	-18.6	-0.8	-0.91	-7.8	0.5	0.0	0.0	16.4
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	256.93	-59.2	4.6	-5.9	-1.2	-0.47	2.6	0.1	0.0	0.0	38.4
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	265.08	-59.5	4.6	-18.3	-0.7	-0.28	-7.7	0.3	0.0	0.0	16.4
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	240.48	-58.6	4.0	-4.8	-1.3	-0.52	2.9	0.7	0.0	0.0	43.1
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	251.63	-59.0	4.3	-17.5	-0.7	-0.52	-7.6	0.3	0.0	0.0	20.0
Cooling Tower M 512	Leq,D	95.7		256.21	-59.2	5.1	-5.0	-1.2	-0.28	0.0	1.7	0.0	0.0	36.8
Cooling Tower M 513	Leq,D	95.7		257.10	-59.2	5.1	-4.9	-1.2	-0.26	0.0	1.7	0.0	0.0	36.9
Cooling Tower M 514	Leq,D	95.7		255.08	-59.1	5.1	-6.9	-1.1	-0.30	0.0	2.3	0.0	0.0	35.7
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	178.86	-56.0	3.0	-2.9	-0.7	-0.31	-3.1	0.0	0.0	0.0	35.7
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	223.07	-58.0	4.4	-5.6	-0.1		0.0	0.1	0.0	0.0	36.2
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	225.38	-58.1	4.5	-8.3	-0.1	-0.02	0.0	0.7	0.0	0.0	31.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	223.28	-58.0	3.6	-4.8	-0.1		0.0	0.1	0.0	0.0	34.2
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	221.11	-57.9	4.4	-3.0	-0.1		0.0	0.0	0.0	0.0	36.6
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	223.40	-58.0	4.4	-4.4	-0.1	-0.01	0.0	0.0	0.0	0.0	37.3
FD Motor	Leq,D	103.3	2	222.98	-58.0	4.7	-14.3	-1.2	-0.76	0.0	0.0	0.0	0.0	33.8
Feed Compressor -B Motor	Leq,D	103.8	5	158.44	-55.0	3.3	-7.1	-1.3	-0.77	0.0	0.0	0.0	0.0	42.9
Feed Compressor-A Compressor	Leq,D	104.0	5	169.02	-55.6	3.7	-7.1	-0.9	-0.76	0.0	0.0	0.0	0.0	43.5
Feed Compressor-A Motor	Leq,D	103.8	6	164.17	-55.3	3.4	-6.8	-1.4	-0.80	0.0	0.0	0.0	0.0	42.9
Feed Compressor-B Compressor	Leq,D	104.0	7	163.98	-55.3	3.6	-7.0	-0.8	-0.73	0.0	1.3	0.0	0.0	45.1
H2S Compressor 18-C-271	Leq,D	105.3	6	316.81	-61.0	5.1	-13.0	-0.9	-0.42	0.0	0.0	0.0	0.0	35.0
Heater # 5-Heater	Leq,D	91.1	13	50.50	-45.1	3.0	0.0	-0.3		0.0	1.6	0.0	0.0	53.3
Heater # 5-Heater	Leq,D	91.1	13	45.38	-44.1	3.0	0.0	-0.3		0.0	1.1	0.0	0.0	53.8
Heater # 5-Heater	Leq,D	91.1	13	55.48	-45.9	3.0	0.0	-0.3		0.0	0.0	0.0	0.0	50.9
Hydro Heater H-402	Leq,D	98.1		275.22	-59.8	5.2	-11.3	-0.4		0.0	1.4	0.0	0.0	33.1
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	212.18	-57.5	4.6	-14.4	0.0	-0.11	0.0	0.1	0.0	0.0	19.6
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	209.84	-57.4	4.6	-3.3	-0.1	-0.14	0.0	0.5	0.0	0.0	31.5
ID Fan-ID Fan - North	Leq,D	92.2	8	212.73	-57.5	4.6	-13.5	0.0	-0.11	0.0	0.0	0.0	0.0	25.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	211.68	-57.5	4.6	-14.8	0.0	-0.11	0.0	0.0	0.0	0.0	23.6
ID Fan-ID Fan - South	Leq,D	92.3	9	209.49	-57.4	4.6	-4.9	0.0	-0.11	0.0	0.0	0.0	0.0	34.5
ID Fan-ID Fan - South 2	Leq,D	91.4	7	210.18	-57.4	4.6	-3.3	-0.1	-0.14	0.0	0.0	0.0	0.0	35.0
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	211.06	-57.5	3.9	-9.2	0.0	-0.01	0.0	0.0	0.0	0.0	31.1
Motor & Pump P 56A/B	Leq,D	93.7		292.07	-60.3	5.2	-16.9	-1.2	-0.22	0.0	7.2	0.0	0.0	27.5
Motor & Pump P 120/121	Leq,D	96.2	2	333.42	-61.5	5.4	-18.5	-1.1	-0.73	0.0	2.5	0.0	0.0	22.3
Motor & Pump P 211/212	Leq,D	93.7		290.12	-60.2	5.3	-7.6	-1.5	-0.72	0.0	0.0	0.0	0.0	28.9
Motor & Pump P 215/214	Leq,D	94.6		293.57	-60.3	5.3	-2.8	-1.9	-0.72	0.0	0.0	0.0	0.0	34.1
Motor & Pump P 216	Leq,D	98.3		295.63	-60.4	5.2	-8.8	-1.5	-0.20	0.0	0.0	0.0	0.0	32.6
Motor & Pump P 217/218	Leq,D	93.7		291.50	-60.3	5.5	-8.1	-1.4	-0.74	0.0	0.0	0.0	0.0	28.6
Motor & Pump P 300	Leq,D	97.1	2	343.10	-61.7	5.4	-19.8	-1.1	-0.61	0.0	6.6	0.0	0.0	26.0
Motor & Pump P 301	Leq,D	102.1	2	341.86	-61.7	5.4	-20.4	-1.1	-0.59	0.0	7.9	0.0	0.0	31.6
Motor & Pump P 302	Leq,D	97.1	2	344.41	-61.7	5.4	-19.3	-1.0	-0.63	0.0	5.1	0.0	0.0	24.9
Motor & Pump P 303	Leq,D	97.1	2	345.58	-61.8	5.4	-18.7	-1.0	-0.65	0.0	4.2	0.0	0.0	24.5
Motor & Pump P 305	Leq,D	97.5	2	346.68	-61.8	5.4	-18.3	-1.0	-0.67	0.0	2.9	0.0	0.0	24.0
Motor & Pump P 306	Leq,D	112.6	4	353.39	-62.0	5.3	-17.0	-1.0	-0.81	0.0	1.2	0.0	0.0	38.5
Motor & Pump P 307	Leq,D	102.1	2	338.32	-61.6	5.4	-21.5	-1.2	-0.53	0.0	1.3	0.0	0.0	24.0
Motor & Pump P 309	Leq,D	97.5	2	347.78	-61.8	5.4	-17.9	-1.0	-0.68	0.0	1.7	0.0	0.0	23.2

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 312	Leq,D	101.5	2	322.76	-61.2	5.5	-15.2	-0.9	-0.38	0.0	4.5	0.0	0.0	33.8
Motor & Pump P 313	Leq,D	101.5	2	321.53	-61.1	5.5	-15.0	-0.9	-0.43	0.0	4.3	0.0	0.0	33.8
Motor & Pump P 315	Leq,D	102.9	2	317.32	-61.0	5.4	-7.4	-1.1	-0.63	0.0	1.1	0.0	0.0	39.2
Motor & Pump P 316	Leq,D	102.9	2	315.98	-61.0	5.4	-6.1	-1.2	-0.69	0.0	0.8	0.0	0.0	40.1
Motor & Pump P 317	Leq,D	102.9	2	314.57	-60.9	5.4	-4.9	-1.3	-0.74	0.0	0.2	0.0	0.0	40.6
Motor & Pump P 318	Leq,D	100.2	1	318.30	-61.0	5.5	-13.5	-1.0		0.0	3.2	0.0	0.0	33.4
Motor & Pump P 319	Leq,D	100.2	1	319.31	-61.1	5.5	-14.2	-1.0	-0.51	0.0	1.8	0.0	0.0	30.8
Motor & Pump P 327	Leq,D	111.2	3	359.82	-62.1	5.4	-21.6	-1.8	-0.79	0.0	4.4	0.0	0.0	34.8
Motor & Pump P 328	Leq,D	109.9	5	349.01	-61.8	5.3	-17.6	-1.0	-0.70	0.0	1.9	0.0	0.0	35.9
Motor & Pump P 329	Leq,D	110.2	5	351.16	-61.9	5.3	-19.0	-1.1	-0.71	0.0	2.9	0.0	0.0	35.6
Motor & Pump P 451	Leq,D	93.7		269.70	-59.6	5.1	-8.2	-1.5		0.0	0.0	0.0	0.0	29.4
Motor & Pump P 453	Leq,D	93.7		259.86	-59.3	5.1	-2.6	-1.9		0.0	0.9	0.0	0.0	35.9
Motor & Pump P 454	Leq,D	93.7		271.09	-59.7	5.2	-7.0	-1.7		0.0	0.0	0.0	0.0	30.5
Motor & Pump P 457	Leq,D	93.7		258.87	-59.3	5.1	-3.6	-1.6		0.0	0.8	0.0	0.0	35.1
Motor & Pump P 458	Leq,D	93.7		268.85	-59.6	5.1	-10.9	-1.1		0.0	3.0	0.0	0.0	30.2
Motor & Pump P 459	Leq,D	93.7		271.76	-59.7	5.2	-8.2	-1.5		0.0	0.0	0.0	0.0	29.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		280.11	-59.9	5.3	-18.6	-1.2	-0.41	0.0	0.3	0.0	0.0	21.5
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		281.37	-60.0	5.3	-18.2	-1.2	-0.43	0.0	0.4	0.0	0.0	22.1
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		301.85	-60.6	5.3	-4.5	-2.2	-0.78	0.0	0.2	0.0	0.0	32.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		302.79	-60.6	5.3	-16.2	-1.3	-0.83	0.0	1.7	0.0	0.0	23.4
Motor & Pump P 1601 A	Leq,D	96.3	2	262.64	-59.4	5.0	-18.5	-1.1	-0.52	0.0	0.7	0.0	0.0	22.6
Motor & Pump P 1601 B	Leq,D	96.3	2	261.71	-59.3	5.0	-17.8	-1.1	-0.52	0.0	7.2	0.0	0.0	29.7
Motor & Pump P 1602 A	Leq,D	96.3	2	260.85	-59.3	5.0	-16.8	-1.1	-0.52	0.0	7.3	0.0	0.0	30.9
Motor & Pump P 1602 B	Leq,D	96.5	2	259.96	-59.3	5.0	-13.9	-1.1	-0.52	0.0	3.5	0.0	0.0	30.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	274.46	-59.8	5.3	-17.5	-1.1	-0.64	0.0	0.3	0.0	0.0	23.3
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	278.24	-59.9	5.3	-20.7	-1.8	-0.23	0.0	0.9	0.0	0.0	20.2
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	280.13	-59.9	5.3	-18.8	-1.1	-0.81	0.0	0.6	0.0	0.0	21.7
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	282.10	-60.0	5.3	-17.1	-1.2	-0.52	0.0	0.4	0.0	0.0	23.6
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	283.46	-60.0	5.3	-16.9	-1.2	-0.59	0.0	0.5	0.0	0.0	23.7
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	279.95	-59.9	5.3	-17.3	-1.1	-0.56	0.0	0.4	0.0	0.0	23.1
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	281.36	-60.0	5.3	-17.5	-1.1	-0.64	0.0	0.7	0.0	0.0	23.1
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	283.79	-60.1	5.3	-17.8	-1.1	-0.79	0.0	0.0	0.0	0.0	21.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	282.67	-60.0	5.3	-17.7	-1.1	-0.72	0.0	0.7	0.0	0.0	22.8
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	327.70	-61.3	5.1	-11.1	-1.1	-0.74	0.0	1.2	0.0	0.0	36.2
P-2 A/B	Leq,D	98.5		141.07	-54.0	5.2	0.0	-0.8	-0.79	0.0	0.4	0.0	0.0	48.6
P-50 A/B	Leq,D	98.1		113.61	-52.1	5.0	-15.0	-0.4	-1.01	0.0	0.0	0.0	0.0	34.6
P-51 A/B	Leq,D	98.1		111.67	-52.0	4.9	0.0	-0.6	-1.48	0.0	0.0	0.0	0.0	49.0
P-060 A/B	Leq,D	98.1		118.68	-52.5	5.0	-18.7	-0.4	-1.69	0.0	0.0	0.0	0.0	29.9
P-63	Leq,D	98.5		108.83	-51.7	4.9	0.0	-0.6	-0.66	0.0	0.1	0.0	0.0	50.6
P-70 A/B	Leq,D	98.1		116.31	-52.3	5.0	-20.8	-0.4	-0.93	0.0	0.0	0.0	0.0	28.6
P-73 A/B	Leq,D	98.5		136.69	-53.7	5.1	0.0	-0.7	-0.84	0.0	0.0	0.0	0.0	48.4
P-251 A/B	Leq,D	98.2		83.65	-49.4	4.6	-4.7	-0.5	-0.33	0.0	0.0	0.0	0.0	47.8
P-252 A/B	Leq,D	98.2		92.16	-50.3	4.7	-4.6	-0.5	-0.56	0.0	0.0	0.0	0.0	46.9
P-253	Leq,D	98.2		89.71	-50.0	4.7	-4.7	-0.5	-0.55	0.0	0.0	0.0	0.0	47.1
P-254 A/B	Leq,D	98.2		79.43	-49.0	4.5	-4.7	-0.5	-0.31	0.0	0.0	0.0	0.0	48.2
P-255 A/B	Leq,D	98.2		80.58	-49.1	4.5	-4.7	-0.5	-0.32	0.0	0.0	0.0	0.0	48.1
P-255 A/B	Leq,D	98.2		87.24	-49.8	4.6	0.0	-0.5	-0.35	0.0	0.0	0.0	0.0	52.2
P-256 A/B	Leq,D	98.2		82.27	-49.3	4.6	-4.7	-0.5	-0.33	0.0	0.0	0.0	0.0	47.9
P-259 A/B	Leq,D	98.2		85.33	-49.6	4.6	-4.6	-0.5	-0.34	0.0	0.0	0.0	0.0	47.7
P-260	Leq,D	99.1		101.10	-51.1	4.8	0.0	-0.6	-0.58	0.0	0.0	0.0	0.0	51.7
P-261 A/B	Leq,D	98.0		115.65	-52.3	5.0	0.0	-0.6	-0.28	0.0	0.0	0.0	0.0	49.8
P-262 A/B	Leq,D	99.1		105.98	-51.5	4.9	0.0	-0.6	-0.30	0.0	0.0	0.0	0.0	51.6
P-263 A/B	Leq,D	99.4		103.73	-51.3	4.9	0.0	-0.6	-0.43	0.0	0.0	0.0	0.0	51.9
P-270 A/B	Leq,D	98.5		80.08	-49.1	4.5	-19.9	-0.3	-0.41	0.0	0.0	0.0	0.0	33.3
P-271 A/B	Leq,D	98.2		76.97	-48.7	4.5	0.0	-0.4	-0.30	0.0	0.0	0.0	0.0	53.2
P-272 A/B	Leq,D	98.2		78.01	-48.8	4.5	-4.7	-0.5	-0.31	0.0	0.0	0.0	0.0	48.4
P-273 A/B	Leq,D	98.5		79.19	-49.0	4.5	-19.4	-0.3	-0.09	0.0	0.0	0.0	0.0	34.3
P-275 A/B/C	Leq,D	98.2		87.59	-49.8	4.7	-4.5	-0.5	-0.53	0.0	0.0	0.0	0.0	47.4
P-305	Leq,D	99.3		38.50	-42.7	3.0	0.0	-0.2	-0.10	0.0	0.0	0.0	0.0	59.3
P-306	Leq,D	100.8		47.21	-44.5	3.5	0.0	-0.3	-0.33	0.0	0.3	0.0	0.0	59.6
P-309	Leq,D	99.3		40.61	-43.2	3.1	0.0	-0.2	-0.16	0.0	0.3	0.0	0.0	59.2
P-328	Leq,D	100.8		52.51	-45.4	3.8	0.0	-0.3	-0.40	0.0	0.1	0.0	0.0	58.5

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-329	Leq,D	100.8		49.97	-45.0	3.6	0.0	-0.3	-0.39	0.0	0.4	0.0	0.0	59.1
P-353	Leq,D	98.5		48.85	-44.8	3.0	0.0	-0.3	-0.19	0.0	0.0	0.0	0.0	56.2
P-358 A/B	Leq,D	99.4		80.20	-49.1	4.5	0.0	-0.5	-0.82	0.0	0.0	0.0	0.0	53.6
P-359 A/B	Leq,D	99.4		76.88	-48.7	4.5	0.0	-0.4	-0.79	0.0	0.9	0.0	0.0	54.9
P-360 A/B	Leq,D	99.4		70.80	-48.0	4.3	0.0	-0.4	-0.73	0.0	2.1	0.0	0.0	56.7
P-361A	Leq,D	98.1		130.45	-53.3	4.4	-4.7	-0.5	-1.79	0.0	0.0	0.0	0.0	42.3
P-371 A/B	Leq,D	98.0		217.13	-57.7	5.0	-10.7	-0.7	-0.54	0.0	3.3	0.0	0.0	36.6
P-373 A/B	Leq,D	98.0		206.30	-57.3	5.0	-8.2	-0.7	-0.54	0.0	2.3	0.0	0.0	38.6
P-374 A/B	Leq,D	98.0		208.55	-57.4	5.0	-8.8	-0.7	-0.52	0.0	1.9	0.0	0.0	37.5
P-375 A/B	Leq,D	98.0		213.90	-57.6	5.0	-10.6	-0.7	-0.54	0.0	1.6	0.0	0.0	35.2
P-376	Leq,D	98.0		209.97	-57.4	5.0	-9.1	-0.7	-0.53	0.0	1.7	0.0	0.0	36.9
P-376 A/B	Leq,D	98.0		204.05	-57.2	5.0	-6.2	-0.7	-0.60	0.0	1.8	0.0	0.0	40.0
P-377	Leq,D	98.0		211.40	-57.5	5.0	-10.4	-0.7	-0.53	0.0	2.1	0.0	0.0	36.1
P-1101 A	Leq,D	98.9		137.81	-53.8	4.5	0.0	-0.7	-1.43	0.0	0.0	0.0	0.0	47.5
P-1103	Leq,D	98.9		136.46	-53.7	4.5	0.0	-0.7	-1.44	0.0	0.0	0.0	0.0	47.5
P-1105 A/B/C	Leq,D	98.9		143.12	-54.1	4.6	0.0	-0.8	-1.39	0.0	0.0	0.0	0.0	47.2
P-1800	Leq,D	98.9		160.28	-55.1	5.3	-14.6	-0.5		0.0	2.3	0.0	0.0	36.3
P-1801	Leq,D	98.9		210.00	-57.4	5.4	-10.6	-0.7		0.0	0.0	0.0	0.0	35.7
P-1802	Leq,D	98.9		210.05	-57.4	5.4	-10.6	-0.7		0.0	0.0	0.0	0.0	35.7
P-1803	Leq,D	99.1		146.21	-54.3	5.2	-13.5	-0.4	-1.99	0.0	2.1	0.0	0.0	36.2
P-1804	Leq,D	99.1		147.56	-54.4	5.2	-18.6	-0.5	-1.76	0.0	0.5	0.0	0.0	29.6
P-1805	Leq,D	99.1		150.28	-54.5	5.2	-18.2	-0.5	-1.75	0.0	5.0	0.0	0.0	34.3
P-1806	Leq,D	99.1		128.73	-53.2	5.1	0.0	-0.7	-1.58	0.0	0.9	0.0	0.0	49.6
P-1809 A	Leq,D	98.9		172.67	-55.7	5.3	-14.4	-0.6		0.0	3.7	0.0	0.0	37.2
P-1810 A/B/C	Leq,D	99.0		158.82	-55.0	5.3	-13.4	-0.5	-1.85	0.0	0.1	0.0	0.0	33.7
P-1811 A/B	Leq,D	99.1		133.37	-53.5	5.1	0.0	-0.7	-1.65	0.0	0.0	0.0	0.0	48.3
P-1811 A/B	Leq,D	99.1		153.58	-54.7	5.2	-12.6	-0.5	-1.74	0.0	1.1	0.0	0.0	35.9
P-1847 A/B	Leq,D	99.4		192.14	-56.7	5.4	-3.7	-0.8	-1.07	0.0	0.2	0.0	0.0	42.7
P-1849 A/B	Leq,D	99.4		195.81	-56.8	5.4	-4.8	-0.8	-1.16	0.0	0.2	0.0	0.0	41.4
P-1853	Leq,D	99.1		37.11	-42.4	3.0	0.0	-0.2		0.0	0.0	0.0	0.0	59.5
Piping Furnace Tanks	Leq,D	87.1	72	210.09	-57.4	3.0	-0.4	-6.9	-0.59	0.0	1.5	0.0	0.0	26.3
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	196.67	-56.9	3.0	-0.4	-6.6	-0.62	0.0	0.6	0.0	0.0	37.6
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	236.21	-58.5	4.1	-14.0	-1.8	-0.76	0.0	1.2	0.0	0.0	44.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	233.70	-58.4	4.1	-16.6	-4.6	-0.70	0.0	1.3	0.0	0.0	40.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	240.87	-58.6	3.6	-21.8	-0.9	-1.27	0.0	0.6	0.0	0.0	32.1
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	235.49	-58.4	3.6	-22.2	-0.9	-1.14	0.0	2.8	0.0	0.0	34.8
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	210.14	-57.4	3.4	-20.5	-0.8	-1.08	0.0	0.1	0.0	0.0	27.8
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	209.60	-57.4	3.5	-7.9	-0.9	-1.33	0.0	0.0	0.0	0.0	47.2
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	198.12	-56.9	3.4	-1.9	-1.0	-1.60	0.0	0.2	0.0	0.0	46.1
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	216.43	-57.7	3.5	-19.4	-0.8	-1.04	0.0	0.1	0.0	0.0	28.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	200.82	-57.0	3.5	-4.4	-0.9	-1.34	0.0	0.0	0.0	0.0	46.5
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	196.48	-56.9	3.4	-13.3	-0.7	-1.08	0.0	3.0	0.0	0.0	40.6
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	220.61	-57.9	3.0	-7.1	-0.9	-1.10	0.0	0.2	0.0	0.0	49.3
PSA Pipe 3" Lagging	Leq,D	80.6	11	228.68	-58.2	3.0	-8.4	-1.8		0.0	0.0	0.0	0.0	15.3
PSA Skid Additional Piping w NC	Leq,D	116.6	57	237.49	-58.5	4.1	-13.6	-1.8	-0.77	0.0	1.0	0.0	0.0	47.1
Reformer-Burner Reformer East	Leq,D	97.3	269	223.12	-58.0	3.0	-20.3	-1.1		0.0	0.0	0.0	0.0	24.0
Reformer-Burner Reformer North	Leq,D	95.9	192	218.63	-57.8	3.0	-12.0	-0.9	-0.03	0.0	0.0	0.0	0.0	28.2
Reformer-Burner Reformer South	Leq,D	95.8	191	214.03	-57.6	3.1	-0.8	-1.7	-0.66	0.0	0.0	0.0	0.0	40.7
Reformer-Burner Reformer West	Leq,D	97.3	268	209.94	-57.4	3.0	-0.2	-1.6	-0.67	0.0	0.0	0.0	0.0	43.4
RFG A from battery to process	Leq,D	99.4	87	194.45	-56.8	3.0	-0.4	-6.5	-0.61	0.0	0.7	0.0	0.0	38.9
RFG A from battery to process w NC	Leq,D	115.2	42	236.23	-58.5	4.1	-15.4	-4.8	-0.70	0.0	1.9	0.0	0.0	41.8
Stack Noise	Leq,D	108.4		213.09	-57.6	3.0	-5.9	-0.6		-5.5	0.0	0.0	0.0	41.9
Steam Turbine-Facade 01	Leq,D	99.6	29	223.32	-58.0	4.7	-10.7	-2.7	-0.83	0.0	1.7	0.0	0.0	33.8
Steam Turbine-Facade 02	Leq,D	96.2	13	222.96	-58.0	4.7	-10.6	-2.7	-0.83	0.0	5.6	0.0	0.0	34.5
Steam Turbine-Facade 03	Leq,D	99.6	29	226.55	-58.1	4.7	-21.6	-2.5	-0.82	0.0	11.2	0.0	0.0	32.5
Steam Turbine-Facade 04	Leq,D	96.2	13	226.95	-58.1	4.7	-19.9	-2.3	-0.81	0.0	1.5	0.0	0.0	21.4
Steam Turbine-Roof 01	Leq,D	99.7	30	224.94	-58.0	4.0	-6.3	-4.0	-0.81	0.0	4.1	0.0	0.0	38.7
Tank Farm Pump 1	Leq,D	99.0	3	204.77	-57.2	5.0	-5.2	-1.3	-0.85	0.0	2.8	0.0	0.0	42.2
Tank Farm Pump 2	Leq,D	99.0	3	215.34	-57.7	5.0	-2.5	-1.6	-0.96	0.0	0.0	0.0	0.0	41.4
Tank Farm Pump 3	Leq,D	99.0	3	218.40	-57.8	5.1	-3.9	-1.4	-1.05	0.0	0.3	0.0	0.0	40.2
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	284.17	-60.1	3.9	-0.1	-3.2		0.0	0.7	-11.8	0.0	41.9
XF-1502 Splitter Area 1	Leq,D	104.5		280.06	-59.9	3.0	-2.9	-2.4	-0.67	-4.3	0.0	0.0	0.0	37.2
XF-1502 Splitter Area 2	Leq,D	104.5		277.15	-59.8	3.0	-2.1	-2.4	-0.67	-4.4	0.0	0.0	0.0	38.0
XF-1504 Splitter Area 1	Leq,D	104.5		277.33	-59.9	3.0	-2.9	-2.4	-0.52	-4.3	0.9	0.0	0.0	38.4
XF-1504 Splitter Area 2	Leq,D	104.5		274.38	-59.8	3.0	-2.1	-2.4	-0.52	-4.4	0.8	0.0	0.0	39.1

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
XF 251, 250, 271, 270	Leq,D	101.1	128	82.54	-49.3	3.0	-1.2	-0.4	-0.34	-2.8	0.0	0.0	0.0	50.1	
XF 260, 261A, 261 B	Leq,D	99.9	97	104.82	-51.4	3.0	0.0	-0.5	-0.09	-2.9	0.0	0.0	0.0	48.0	
XF 304, XF 321	Leq,D	110.5	56	345.39	-61.8	3.1	-6.5	-0.8	-0.24	-2.3	0.2	0.0	0.0	42.2	
XF 313, XF 314	Leq,D	113.0	18	367.89	-62.3	3.8	-7.4	-1.2	-0.82	-3.3	0.8	0.0	0.0	42.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	354.16	-62.0	3.2	-4.5	-1.5	-0.38	-2.8	0.2	0.0	0.0	45.6	
XF 353A/B	Leq,D	95.4	35	80.07	-49.1	3.0	0.0	-0.4	-0.90	-2.8	0.0	0.0	0.0	45.3	
XF 353A/B	Leq,D	95.4	35	87.44	-49.8	3.0	-0.1	-0.4	-0.81	-3.0	0.0	0.0	0.0	44.2	
XF 354A/B	Leq,D	95.4	35	43.07	-43.7	3.0	0.0	-0.2	-0.12	-2.6	0.0	0.0	0.0	51.8	
XF 503	Leq,D	113.0	21	297.09	-60.4	3.4	-2.0	-2.5	-0.57	-3.7	0.0	0.0	0.0	47.3	
XF - 1601	Leq,D	96.6		260.69	-59.3	3.0	-0.2	-0.9		-2.6	0.4	0.0	0.0	37.0	
XF - 1602	Leq,D	96.6		257.21	-59.2	3.0	-0.2	-0.9		-2.6	0.4	0.0	0.0	37.1	
XF Module 1510	Leq,D	108.3		277.95	-59.9	3.0	-4.7	-1.9	-0.61	-4.2	1.3	0.0	0.0	41.4	
XF Module 1519	Leq,D	109.0		282.03	-60.0	3.0	-11.4	-1.2	-0.02	-3.4	3.0	0.0	0.0	39.1	
xxxx xxxx xxxx xxxx	Leq,D		228								4.7			22.8	
xxxx xxxx xxxx xxxx	Leq,D		520								8.2			29.7	
xxxx xxxx xxxx xxxx	Leq,D		1341								5.2			41.3	
xxxx xxxx xxxx xxxx	Leq,D		450								6.9			40.2	
Receiver S-7 Fl G 59 dB(A) 59 dB(A)	Lr,lim dB(A)		Leq,D 73.3 dB(A)		Ld 7-19 dB(A)		Leq,N 71.4 dB(A)		Le 19-22 dB(A)		CNEL 78.4 dB(A)		Lmax day hr dB(A)		Ld 7-19
ID Fan Motor	Leq,D	104.4	2	175.80	-55.9	4.3	-18.8	-0.7	-0.44	0.0	2.4	0.0	0.0	35.2	
18-1855 A/B	Leq,D	98.8		96.39	-50.7	4.0	0.0	-0.5	-0.49	0.0	0.1	0.0	0.0	51.3	
18-1856 A/B	Leq,D	98.8		100.63	-51.0	4.1	0.0	-0.6	-0.51	0.0	0.1	0.0	0.0	50.9	
18-1857 A/B	Leq,D	98.8		92.65	-50.3	4.0	0.0	-0.5	-0.47	0.0	0.1	0.0	0.0	51.6	
18-1858 A/B	Leq,D	98.8		90.16	-50.1	3.2	0.0	-0.5	-0.46	0.0	0.4	0.0	0.0	51.3	
18-PK 1802 Air Compressor Package	Leq,D	103.1		96.59	-50.7	4.8	0.0	-0.4	-0.65	0.0	0.1	0.0	0.0	56.2	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	31.88	-41.1	3.0	0.0	-0.6		0.0	0.0	-2.7	0.0	67.7	
Air Compressor C 1	Leq,D	110.0	5	257.44	-59.2	5.3	-13.1	-0.5	-0.39	0.0	1.8	0.0	0.0	43.9	
Air Compressor Pump	Leq,D	100.3		70.51	-48.0	3.0	-18.9	-1.2		0.0	4.4	0.0	0.0	39.7	
Blower F 401	Leq,D	113.0		167.98	-55.5	4.3	-11.5	-0.2		0.0	0.4	0.0	0.0	50.5	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	139.62	-53.9	4.1	-6.2	-0.5		0.0	0.0	0.0	0.0	42.2	
Boiler Feed Water Pump A	Leq,D	97.1	3	120.43	-52.6	4.1	-6.5	-0.5	-0.48	0.0	0.2	0.0	0.0	41.3	
Boiler Feed Water Pump B	Leq,D	97.1	3	117.64	-52.4	4.1	-3.5	-0.7	-0.48	0.0	0.2	0.0	0.0	44.3	
C370 A Motor	Leq,D	103.6	3	113.74	-52.1	3.0	-12.1	-0.5		0.0	4.0	0.0	0.0	46.0	
C370 B Motor	Leq,D	108.6	3	112.19	-52.0	3.0	-12.6	-0.4	-0.38	0.0	4.8	0.0	0.0	51.0	
C370A	Leq,D	103.8	5	118.11	-52.4	3.0	-11.8	-0.5		0.0	4.6	0.0	0.0	46.6	
C370B	Leq,D	103.8	5	116.62	-52.3	3.0	-11.9	-0.5	-0.38	0.0	5.1	0.0	0.0	46.8	
C-270 A	Leq,D	106.3	6	100.13	-51.0	3.0	-6.4	-0.5	-0.15	0.0	0.8	0.0	0.0	52.0	
C-270 B	Leq,D	106.3	6	95.21	-50.6	3.0	-6.1	-0.6	-0.04	0.0	0.3	0.0	0.0	52.4	
C-270 C	Leq,D	106.3	6	90.39	-50.1	3.0	-5.8	-0.6		0.0	0.2	0.0	0.0	52.9	
C-301 Compressor	Leq,D	106.8	3	120.23	-52.6	3.0	-4.7	-0.6	-1.09	0.0	0.0	0.0	0.0	50.8	
C-301 Motor	Leq,D	106.8	4	116.59	-52.3	3.0	-0.4	-1.4	-1.05	0.0	0.1	0.0	0.0	54.8	
C-351 Compressor	Leq,D	106.8	4	119.71	-52.6	3.0	-0.5	-1.0	-0.54	0.0	0.2	0.0	0.0	55.4	
C-351 Motor	Leq,D	106.8	5	119.22	-52.5	3.0	-4.5	-1.3	-0.55	0.0	0.6	0.0	0.0	51.5	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	36.02	-42.1	3.1	0.0	-0.1		0.0	0.1	-33.5	0.0	62.1	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	216.92	-57.7	4.2	-11.3	-0.8	-0.96	2.1	2.6	0.0	0.0	42.9	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	217.36	-57.7	4.2	-4.2	-1.0	-1.02	0.0	0.2	0.0	0.0	41.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	227.79	-58.1	4.3	-16.9	-0.5	-0.92	-7.6	3.0	0.0	0.0	29.7	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	222.75	-57.9	4.2	-12.7	-0.8	-0.95	2.8	0.2	0.0	0.0	45.5	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	217.02	-57.7	4.2	-10.5	-0.7	-0.97	2.6	1.2	0.0	0.0	41.9	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	233.66	-58.4	4.3	-18.5	-0.7	-0.93	-7.8	6.9	0.0	0.0	25.4	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	171.30	-55.7	4.0	-3.9	-0.8		3.1	0.0	0.0	0.0	44.6	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	178.14	-56.0	4.0	-20.1	-0.6		-7.2	0.7	0.0	0.0	18.5	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	158.85	-55.0	3.5	-6.6	-0.8		3.8	0.8	0.0	0.0	46.3	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	166.84	-55.4	3.7	-16.4	-0.5		-6.9	0.3	0.0	0.0	25.6	
Cooling Tower M 512	Leq,D	95.7		169.36	-55.6	4.6	-11.8	-0.7		0.0	0.6	0.0	0.0	32.9	
Cooling Tower M 513	Leq,D	95.7		170.09	-55.6	4.6	-13.1	-0.7		0.0	0.7	0.0	0.0	31.6	
Cooling Tower M 514	Leq,D	95.7		168.39	-55.5	4.6	-10.2	-0.7		0.0	4.1	0.0	0.0	37.9	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	139.91	-53.9	3.0	0.0	-0.6	-0.42	-2.9	0.4	0.0	0.0	41.3	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	179.37	-56.1	4.1	-4.7	-0.1	-0.12	0.0	0.0	0.0	0.0	38.5	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	181.10	-56.2	4.1	-8.7	-0.1	-0.07	0.0	1.4	0.0	0.0	33.7	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	179.05	-56.1	3.0	-4.3	-0.1	-0.06	0.0	0.0	0.0	0.0	35.9	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	176.96	-55.9	4.0	-1.7	-0.1	-0.06	0.0	0.0	0.0	0.0	39.4	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	178.66	-56.0	4.1	-1.8	-0.1	-0.06	0.0	0.3	0.0	0.0	41.6	
FD Motor	Leq,D	103.3	2	179.74	-56.1	4.3	-0.6	-2.0	-0.12	0.0	0.2	0.0	0.0	49.0	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Feed Compressor -B Motor	Leq,D	103.8	5	103.74	-51.3	3.0	-7.8	-0.9	-0.41	0.0	0.4	0.0	0.0	46.9
Feed Compressor-A Compressor	Leq,D	104.0	5	107.11	-51.6	3.0	-12.9	-0.4	-0.38	0.0	0.5	0.0	0.0	42.2
Feed Compressor-A Motor	Leq,D	103.8	6	101.85	-51.2	3.0	-13.4	-0.6	-0.42	0.0	0.7	0.0	0.0	41.9
Feed Compressor-B Compressor	Leq,D	104.0	7	109.44	-51.8	3.0	-7.8	-0.6	-0.39	0.0	1.4	0.0	0.0	47.9
H2S Compressor 18-C-271	Leq,D	105.3	6	228.69	-58.2	4.7	-12.4	-0.6	-0.32	0.0	0.0	0.0	0.0	38.5
Heater # 5-Heater	Leq,D	91.1	13	136.64	-53.7	4.2	-17.3	-0.3		0.0	0.0	0.0	0.0	26.9
Heater # 5-Heater	Leq,D	91.1	13	131.85	-53.4	4.1	-16.1	-0.3		0.0	0.0	0.0	0.0	28.4
Heater # 5-Heater	Leq,D	91.1	13	141.33	-54.0	4.2	-18.0	-0.3		0.0	0.0	0.0	0.0	26.0
Hydro Heater H-402	Leq,D	98.1		186.09	-56.4	4.8	-5.0	-0.7		0.0	0.1	0.0	0.0	40.9
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	174.40	-55.8	4.3	-8.2	0.0	-0.08	0.0	0.0	0.0	0.0	27.1
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	172.24	-55.7	4.3	-3.7	-0.1	-0.12	0.0	0.0	0.0	0.0	32.0
ID Fan-ID Fan - North	Leq,D	92.2	8	174.32	-55.8	4.3	-8.8	0.0	-0.08	0.0	0.2	0.0	0.0	31.9
ID Fan-ID Fan - North 2	Leq,D	91.4	7	174.42	-55.8	4.3	-8.3	0.0	-0.08	0.0	0.1	0.0	0.0	31.6
ID Fan-ID Fan - South	Leq,D	92.3	9	171.29	-55.7	4.3	-3.5	-0.1	-0.19	0.0	0.0	0.0	0.0	37.2
ID Fan-ID Fan - South 2	Leq,D	91.4	7	173.04	-55.8	4.3	-3.5	-0.1	-0.18	0.0	0.0	0.0	0.0	36.2
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	173.15	-55.8	3.5	-4.0	-0.1	-0.12	0.0	0.0	0.0	0.0	37.5
Motor & Pump P 56A/B	Leq,D	93.7		203.40	-57.2	4.9	-11.8	-1.0	-0.21	0.0	0.0	0.0	0.0	28.3
Motor & Pump P 120/121	Leq,D	96.2	2	246.67	-58.8	5.2	-17.3	-0.8	-0.38	0.0	2.0	0.0	0.0	26.1
Motor & Pump P 211/212	Leq,D	93.7		199.30	-57.0	5.0	-7.3	-1.1	-0.75	0.0	0.3	0.0	0.0	32.8
Motor & Pump P 215/214	Leq,D	94.6		202.92	-57.1	5.0	-8.4	-1.1	-0.77	0.0	1.9	0.0	0.0	34.2
Motor & Pump P 216	Leq,D	98.3		204.65	-57.2	4.9	-10.5	-1.0	-0.20	0.0	2.8	0.0	0.0	37.0
Motor & Pump P 217/218	Leq,D	93.7		200.74	-57.0	5.3	-9.2	-1.0	-0.76	0.0	0.9	0.0	0.0	31.9
Motor & Pump P 300	Leq,D	97.1	2	255.62	-59.1	5.2	-19.7	-0.8	-0.37	0.0	0.8	0.0	0.0	23.1
Motor & Pump P 301	Leq,D	102.1	2	254.28	-59.1	5.2	-20.0	-0.9	-0.37	0.0	0.8	0.0	0.0	27.8
Motor & Pump P 302	Leq,D	97.1	2	257.04	-59.2	5.2	-19.3	-0.8	-0.37	0.0	0.7	0.0	0.0	23.4
Motor & Pump P 303	Leq,D	97.1	2	258.28	-59.2	5.2	-18.8	-0.8	-0.37	0.0	0.6	0.0	0.0	23.7
Motor & Pump P 305	Leq,D	97.5	2	259.47	-59.3	5.2	-18.3	-0.8	-0.38	0.0	0.4	0.0	0.0	24.4
Motor & Pump P 306	Leq,D	112.6	4	266.73	-59.5	5.1	-19.5	-0.9	-0.41	0.0	1.3	0.0	0.0	38.7
Motor & Pump P 307	Leq,D	102.1	2	250.46	-59.0	5.2	-19.6	-0.9	-0.36	0.0	1.6	0.0	0.0	29.1
Motor & Pump P 309	Leq,D	97.5	2	260.66	-59.3	5.2	-17.8	-0.8	-0.38	0.0	0.1	0.0	0.0	24.5
Motor & Pump P 312	Leq,D	101.5	2	233.68	-58.4	5.3	-8.0	-0.7	-0.50	0.0	1.7	0.0	0.0	40.9
Motor & Pump P 313	Leq,D	101.5	2	232.35	-58.3	5.3	-10.9	-0.7	-0.54	0.0	2.8	0.0	0.0	39.2
Motor & Pump P 315	Leq,D	102.9	2	227.79	-58.1	5.2	-5.1	-0.8	-0.69	0.0	0.7	0.0	0.0	44.0
Motor & Pump P 316	Leq,D	102.9	2	226.35	-58.1	5.2	-4.2	-0.8	-0.77	0.0	0.4	0.0	0.0	44.6
Motor & Pump P 317	Leq,D	102.9	2	224.85	-58.0	5.1	-5.6	-0.8	-0.83	0.0	0.6	0.0	0.0	43.4
Motor & Pump P 318	Leq,D	100.2	1	228.90	-58.2	5.4	-10.3	-0.7	-0.65	0.0	2.5	0.0	0.0	38.2
Motor & Pump P 319	Leq,D	100.2	1	229.99	-58.2	5.4	-13.6	-0.7		0.0	3.9	0.0	0.0	36.9
Motor & Pump P 327	Leq,D	111.2	3	273.59	-59.7	5.3	-22.1	-1.5	-0.38	0.0	3.6	0.0	0.0	36.4
Motor & Pump P 328	Leq,D	109.9	5	262.01	-59.4	5.1	-18.0	-0.8	-0.38	0.0	0.4	0.0	0.0	36.9
Motor & Pump P 329	Leq,D	110.2	5	264.33	-59.4	5.1	-19.6	-0.9	-0.37	0.0	1.2	0.0	0.0	36.2
Motor & Pump P 451	Leq,D	93.7		180.21	-56.1	4.7	-4.1	-1.2		0.0	0.0	0.0	0.0	37.0
Motor & Pump P 453	Leq,D	93.7		169.84	-55.6	4.6	-5.1	-1.0		0.0	0.0	0.0	0.0	36.6
Motor & Pump P 454	Leq,D	93.7		181.54	-56.2	4.7	-4.6	-1.1		0.0	0.2	0.0	0.0	36.8
Motor & Pump P 457	Leq,D	93.7		168.77	-55.5	4.6	-4.3	-1.1		0.0	0.0	0.0	0.0	37.4
Motor & Pump P 458	Leq,D	93.7		179.42	-56.1	4.7	-3.5	-1.3		0.0	0.0	0.0	0.0	37.5
Motor & Pump P 459	Leq,D	93.7		182.27	-56.2	4.7	-4.1	-1.2		0.0	0.2	0.0	0.0	37.1
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		193.87	-56.7	4.9	-17.9	-0.9		0.0	0.1	0.0	0.0	25.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		195.26	-56.8	4.9	-21.1	-1.0		0.0	0.4	0.0	0.0	22.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		219.54	-57.8	5.1	-17.7	-1.0	-0.38	0.0	2.6	0.0	0.0	26.2
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		220.58	-57.9	5.1	-17.6	-1.0	-0.38	0.0	3.0	0.0	0.0	26.6
Motor & Pump P 1601 A	Leq,D	96.3	2	180.05	-56.1	4.5	-21.9	-1.0		0.0	8.9	0.0	0.0	30.7
Motor & Pump P 1601 B	Leq,D	96.3	2	179.36	-56.1	4.5	-22.0	-1.0		0.0	4.9	0.0	0.0	26.6
Motor & Pump P 1602 A	Leq,D	96.3	2	178.66	-56.0	4.5	-22.1	-1.1		0.0	0.7	0.0	0.0	22.4
Motor & Pump P 1602 B	Leq,D	96.5	2	178.01	-56.0	4.5	-22.1	-1.0		0.0	1.1	0.0	0.0	22.9
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	189.29	-56.5	5.0	-14.8	-1.1	-0.09	0.0	0.2	0.0	0.0	29.2
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	193.48	-56.7	5.0	-12.1	-1.2	-0.21	0.0	0.1	0.0	0.0	31.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	195.59	-56.8	5.0	-17.3	-1.0	-0.22	0.0	0.3	0.0	0.0	26.6
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	196.17	-56.8	4.9	-19.0	-0.9	-0.04	0.0	3.5	0.0	0.0	28.4
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	197.67	-56.9	5.0	-17.0	-0.9	-0.08	0.0	2.6	0.0	0.0	29.4
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	196.73	-56.9	5.0	-20.0	-0.9	-0.04	0.0	1.0	0.0	0.0	24.5
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	197.83	-56.9	5.0	-19.5	-0.9	-0.15	0.0	0.6	0.0	0.0	24.4
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	199.73	-57.0	5.0	-17.6	-0.9	-0.33	0.0	0.4	0.0	0.0	25.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	198.84	-57.0	5.0	-18.4	-0.9	-0.25	0.0	0.0	0.0	0.0	24.9

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	244.25	-58.7	4.8	-12.1	-0.8	-0.55	0.0	3.4	0.0	0.0	40.1
P-2 A/B	Leq,D	98.5		216.42	-57.7	5.5	-8.7	-0.8	-1.49	0.0	3.0	0.0	0.0	38.3
P-50 A/B	Leq,D	98.1		178.47	-56.0	5.3	-22.1	-0.7	-0.22	0.0	0.4	0.0	0.0	24.8
P-51 A/B	Leq,D	98.1		178.35	-56.0	5.3	-15.7	-0.6	-0.23	0.0	4.2	0.0	0.0	35.1
P-060 A/B	Leq,D	98.1		178.93	-56.0	5.3	-22.3	-0.7	-1.76	0.0	1.7	0.0	0.0	24.3
P-63	Leq,D	98.5		186.47	-56.4	5.4	0.0	-1.0	-1.47	0.0	1.0	0.0	0.0	46.0
P-70 A/B	Leq,D	98.1		178.62	-56.0	5.3	-21.5	-0.7	-1.74	0.0	0.3	0.0	0.0	23.8
P-73 A/B	Leq,D	98.5		211.93	-57.5	5.4	-8.3	-0.8	-1.48	0.0	3.0	0.0	0.0	38.8
P-251 A/B	Leq,D	98.2		49.80	-44.9	3.6	0.0	-0.3	-0.23	0.0	0.1	0.0	0.0	56.5
P-252 A/B	Leq,D	98.2		59.18	-46.4	4.0	0.0	-0.3	-0.36	0.0	0.1	0.0	0.0	55.2
P-253	Leq,D	98.2		65.46	-47.3	4.2	0.0	-0.4	-0.54	0.0	0.1	0.0	0.0	54.3
P-254 A/B	Leq,D	98.2		59.97	-46.6	4.0	0.0	-0.4	-0.49	0.0	0.1	0.0	0.0	55.0
P-255 A/B	Leq,D	98.2		56.83	-46.1	3.9	0.0	-0.3	-0.41	0.0	0.1	0.0	0.0	55.4
P-255 A/B	Leq,D	98.2		43.83	-43.8	3.3	0.0	-0.3	-0.05	0.0	0.1	0.0	0.0	57.5
P-256 A/B	Leq,D	98.2		52.84	-45.5	3.8	0.0	-0.3	-0.31	0.0	0.1	0.0	0.0	56.0
P-259 A/B	Leq,D	98.2		46.85	-44.4	3.5	0.0	-0.3	-0.14	0.0	0.1	0.0	0.0	56.9
P-260	Leq,D	99.1		45.82	-44.2	3.4	0.0	-0.3	-0.25	0.0	0.1	0.0	0.0	57.9
P-261 A/B	Leq,D	98.0		38.15	-42.6	3.0	0.0	-0.2	-0.20	0.0	0.6	0.0	0.0	58.5
P-262 A/B	Leq,D	99.1		41.66	-43.4	3.2	0.0	-0.3	-0.23	0.0	0.7	0.0	0.0	59.1
P-263 A/B	Leq,D	99.4		43.64	-43.8	3.3	0.0	-0.3	-0.24	0.0	0.1	0.0	0.0	58.5
P-270 A/B	Leq,D	98.5		101.42	-51.1	4.8	0.0	-0.6	-0.79	0.0	0.9	0.0	0.0	51.8
P-271 A/B	Leq,D	98.2		69.12	-47.8	4.3	0.0	-0.4	-0.70	0.0	0.1	0.0	0.0	53.7
P-272 A/B	Leq,D	98.2		64.65	-47.2	4.2	0.0	-0.4	-0.60	0.0	0.1	0.0	0.0	54.3
P-273 A/B	Leq,D	98.5		97.94	-50.8	4.8	0.0	-0.6	-0.75	0.0	0.2	0.0	0.0	51.4
P-275 A/B/C	Leq,D	98.2		75.44	-48.5	4.4	0.0	-0.4	-0.79	0.0	0.2	0.0	0.0	53.1
P-305	Leq,D	99.3		114.36	-52.2	5.0	-20.7	-0.4	-0.10	0.0	8.1	0.0	0.0	39.0
P-306	Leq,D	100.8		124.04	-52.9	5.0	0.0	-0.7	-0.31	0.0	0.0	0.0	0.0	52.0
P-309	Leq,D	99.3		116.69	-52.3	5.0	-19.9	-0.4	-0.16	0.0	7.4	0.0	0.0	39.0
P-328	Leq,D	100.8		129.76	-53.3	5.1	0.0	-0.7	-0.44	0.0	0.0	0.0	0.0	51.5
P-329	Leq,D	100.8		126.95	-53.1	5.1	0.0	-0.7	-0.38	0.0	0.0	0.0	0.0	51.7
P-353	Leq,D	98.5		113.93	-52.1	4.2	0.0	-0.6	-0.14	0.0	0.0	0.0	0.0	49.8
P-358 A/B	Leq,D	99.4		133.42	-53.5	5.1	-12.7	-0.4	-0.92	0.0	0.2	0.0	0.0	37.2
P-359 A/B	Leq,D	99.4		133.24	-53.5	5.1	0.0	-0.7	-0.87	0.0	0.0	0.0	0.0	49.4
P-360 A/B	Leq,D	99.4		133.24	-53.5	5.1	0.0	-0.7	-0.58	0.0	0.1	0.0	0.0	49.9
P-361A	Leq,D	98.1		181.21	-56.2	4.9	0.0	-0.9	-1.79	0.0	0.0	0.0	0.0	44.1
P-371 A/B	Leq,D	98.0		133.36	-53.5	4.4	-12.4	-0.4		0.0	4.0	0.0	0.0	40.2
P-373 A/B	Leq,D	98.0		126.79	-53.1	4.4	-13.9	-0.4		0.0	4.8	0.0	0.0	39.8
P-374 A/B	Leq,D	98.0		128.11	-53.1	4.4	-13.7	-0.4		0.0	5.0	0.0	0.0	40.2
P-375 A/B	Leq,D	98.0		131.57	-53.4	4.4	-13.2	-0.4		0.0	4.4	0.0	0.0	39.9
P-376	Leq,D	98.0		128.96	-53.2	4.4	-13.7	-0.4		0.0	5.2	0.0	0.0	40.2
P-376 A/B	Leq,D	98.0		125.62	-53.0	4.4	-13.9	-0.4		0.0	4.1	0.0	0.0	39.1
P-377	Leq,D	98.0		129.89	-53.3	4.4	-13.7	-0.4		0.0	4.8	0.0	0.0	39.9
P-1101 A	Leq,D	98.9		206.47	-57.3	5.0	-7.9	-0.7		0.0	1.5	0.0	0.0	39.4
P-1103	Leq,D	98.9		205.00	-57.2	5.0	-8.1	-0.7		0.0	1.5	0.0	0.0	39.3
P-1105 A/B/C	Leq,D	98.9		212.09	-57.5	5.0	-7.7	-0.7		0.0	1.1	0.0	0.0	39.1
P-1800	Leq,D	98.9		241.45	-58.6	5.5	-11.3	-0.7	-1.56	0.0	5.9	0.0	0.0	38.1
P-1801	Leq,D	98.9		289.92	-60.2	5.6	-4.7	-1.4	-1.47	0.0	0.0	0.0	0.0	36.7
P-1802	Leq,D	98.9		289.51	-60.2	5.6	-4.6	-1.4	-1.47	0.0	0.0	0.0	0.0	36.8
P-1803	Leq,D	99.1		194.43	-56.8	5.4	-6.8	-0.8	-2.12	0.0	3.4	0.0	0.0	41.4
P-1804	Leq,D	99.1		204.32	-57.2	5.4	-4.8	-1.0	-1.74	0.0	0.2	0.0	0.0	39.9
P-1805	Leq,D	99.1		207.47	-57.3	5.4	-4.8	-1.1	-1.74	0.0	0.1	0.0	0.0	39.8
P-1806	Leq,D	99.1		170.97	-55.7	5.3	-3.1	-0.8	-1.57	0.0	0.3	0.0	0.0	43.6
P-1809 A	Leq,D	98.9		252.63	-59.0	5.5	-13.1	-0.8	-1.53	0.0	7.4	0.0	0.0	37.4
P-1810 A/B/C	Leq,D	99.0		211.98	-57.5	5.4	-4.8	-1.1	-1.96	0.0	0.1	0.0	0.0	39.2
P-1811 A/B	Leq,D	99.1		177.56	-56.0	5.3	-4.0	-0.7	-1.66	0.0	0.4	0.0	0.0	42.6
P-1811 A/B	Leq,D	99.1		211.33	-57.5	5.4	-4.7	-1.1	-1.74	0.0	0.1	0.0	0.0	39.6
P-1847 A/B	Leq,D	99.4		213.27	-57.6	5.4	-4.7	-1.1	-1.05	0.0	2.2	0.0	0.0	42.6
P-1849 A/B	Leq,D	99.4		218.94	-57.8	5.5	-4.7	-1.1	-1.04	0.0	2.4	0.0	0.0	42.5
P-1853	Leq,D	99.1		65.46	-47.3	4.2	0.0	-0.4		0.0	0.1	0.0	0.0	55.7
Piping Furnace Tanks	Leq,D	87.1	72	153.15	-54.7	3.0	-3.1	-5.4	-0.32	0.0	2.2	0.0	0.0	28.7
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	132.68	-53.4	3.0	-4.6	-4.3	-0.32	0.0	0.5	0.0	0.0	39.3
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	165.51	-55.4	3.3	-18.8	-1.2	-0.09	0.0	2.5	0.0	0.0	44.9
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	163.71	-55.3	3.3	-21.5	-3.4	-0.12	0.0	2.1	0.0	0.0	40.3
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	287.91	-60.2	3.8	-22.2	-1.1	-0.93	0.0	0.7	0.0	0.0	30.6
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	272.60	-59.7	3.7	-16.1	-0.9	-1.02	0.0	6.6	0.0	0.0	43.7
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	244.60	-58.8	3.6	-11.8	-0.8	-1.02	0.0	0.3	0.0	0.0	35.6
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	258.51	-59.2	3.7	-9.1	-1.0	-0.94	0.0	0.4	0.0	0.0	44.9
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	237.84	-58.5	3.6	-0.2	-1.2	-1.05	0.0	0.1	0.0	0.0	46.7

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	250.66	-59.0	3.6	-8.5	-1.0	-1.01	0.0	0.0	0.0	0.0	37.8	
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	236.94	-58.5	3.6	-0.6	-1.3	-0.96	0.0	0.0	0.0	0.0	48.9	
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	239.57	-58.6	3.6	-9.2	-0.9	-1.04	0.0	3.7	0.0	0.0	43.6	
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	263.31	-59.4	3.0	-5.8	-1.2	-0.92	0.0	1.3	0.0	0.0	50.1	
PSA Pipe 3" Lagging	Leq,D	80.6	11	163.18	-55.2	3.0	-17.2	-1.0	-0.14	0.0	0.7	0.0	0.0	10.7	
PSA Skid Additional Piping w NC	Leq,D	116.6	57	165.87	-55.4	3.3	-19.0	-1.2	-0.02	0.0	1.9	0.0	0.0	46.2	
Reformer-Burner Reformer East	Leq,D	97.3	269	171.35	-55.7	3.0	-20.8	-0.9	-0.42	0.0	0.1	0.0	0.0	25.6	
Reformer-Burner Reformer North	Leq,D	95.9	192	162.94	-55.2	3.0	-2.9	-1.5	-0.41	0.0	0.6	0.0	0.0	39.5	
Reformer-Burner Reformer South	Leq,D	95.8	191	165.52	-55.4	3.0	-10.3	-0.7	-0.40	0.0	0.5	0.0	0.0	35.5	
Reformer-Burner Reformer West	Leq,D	97.3	268	157.98	-55.0	3.0	-1.8	-1.4	-0.41	0.0	0.5	0.0	0.0	45.2	
RFG A from battery to process	Leq,D	99.4	87	133.56	-53.5	3.0	-3.0	-4.4	-0.32	0.0	0.6	0.0	0.0	41.8	
RFG A from battery to process w NC	Leq,D	115.2	42	166.46	-55.4	3.3	-20.7	-3.4	-0.12	0.0	2.4	0.0	0.0	41.3	
Stack Noise	Leq,D	108.4		177.70	-56.0	3.0	-1.2	-1.6	-0.09	-7.9	0.2	0.0	0.0	44.9	
Steam Turbine-Facade 01	Leq,D	99.6	29	148.63	-54.4	4.1	-10.3	-2.1		0.0	1.5	0.0	0.0	38.3	
Steam Turbine-Facade 02	Leq,D	96.2	13	149.55	-54.5	4.1	-13.7	-1.7		0.0	3.5	0.0	0.0	33.9	
Steam Turbine-Facade 03	Leq,D	99.6	29	152.25	-54.6	4.1	-22.4	-2.2		0.0	9.0	0.0	0.0	33.4	
Steam Turbine-Facade 04	Leq,D	96.2	13	151.39	-54.6	4.1	-22.1	-2.1		0.0	10.0	0.0	0.0	31.5	
Steam Turbine-Roof 01	Leq,D	99.7	30	150.46	-54.5	3.0	-8.0	-2.7		0.0	3.9	0.0	0.0	41.5	
Tank Farm Pump 1	Leq,D	99.0	3	215.55	-57.7	5.0	-3.7	-1.9	-0.68	0.0	1.0	0.0	0.0	41.1	
Tank Farm Pump 2	Leq,D	99.0	3	232.82	-58.3	5.1	-4.0	-1.9	-0.83	0.0	0.8	0.0	0.0	39.8	
Tank Farm Pump 3	Leq,D	99.0	3	237.64	-58.5	5.1	-3.8	-2.0	-0.87	0.0	0.8	0.0	0.0	39.7	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	96.24	-50.7	3.1	0.0	-1.1		0.0	0.1	-11.8	0.0	52.1	
XF-1502 Splitter Area 1	Leq,D	104.5		195.99	-56.8	3.0	-4.7	-1.4	-0.23	-4.2	0.8	0.0	0.0	40.9	
XF-1502 Splitter Area 2	Leq,D	104.5		192.76	-56.7	3.0	-2.0	-1.2	-0.06	-4.0	0.4	0.0	0.0	44.0	
XF-1504 Splitter Area 1	Leq,D	104.5		193.83	-56.7	3.0	-4.7	-1.4	-0.05	-4.2	0.7	0.0	0.0	41.1	
XF-1504 Splitter Area 2	Leq,D	104.5		190.56	-56.6	3.0	-4.6	-1.4	-0.05	-4.2	0.7	0.0	0.0	41.3	
XF 251, 250, 271, 270	Leq,D	101.1	128	71.53	-48.1	3.0	0.0	-0.3	-0.70	-2.8	0.1	0.0	0.0	52.3	
XF 260, 261A, 261 B	Leq,D	99.9	97	34.84	-41.8	3.0	0.0	-0.2	-0.08	-2.5	0.0	0.0	0.0	58.3	
XF 304, XF 321	Leq,D	110.5	56	257.40	-59.2	3.0	-7.8	-0.5	-0.10	-2.0	0.6	0.0	0.0	44.6	
XF 313, XF 314	Leq,D	113.0	18	281.63	-60.0	3.1	-11.7	-0.7	-0.40	-2.8	0.0	0.0	0.0	40.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	266.88	-59.5	3.0	-9.8	-0.7	-0.10	-2.1	0.2	0.0	0.0	44.4	
XF 353A/B	Leq,D	95.4	35	140.32	-53.9	3.0	0.0	-0.6	-0.75	-2.9	0.1	0.0	0.0	40.3	
XF 353A/B	Leq,D	95.4	35	129.97	-53.3	3.0	-0.1	-0.6	-0.76	-3.0	0.2	0.0	0.0	41.0	
XF 354A/B	Leq,D	95.4	35	113.10	-52.1	3.0	0.0	-0.5	-0.09	-2.9	0.1	0.0	0.0	43.0	
XF 503	Leq,D	113.0	21	207.35	-57.3	3.0	-3.3	-2.4	-0.60	-3.8	0.3	0.0	0.0	49.0	
XF - 1601	Leq,D	96.6		178.49	-56.0	3.0	-0.7	-0.7		-3.3	0.5	0.0	0.0	39.4	
XF - 1602	Leq,D	96.6		175.98	-55.9	3.0	-0.7	-0.7		-3.3	0.9	0.0	0.0	39.9	
XF Module 1510	Leq,D	108.3		192.53	-56.7	3.0	-3.0	-1.2	-0.12	-4.1	0.5	0.0	0.0	46.8	
XF Module 1519	Leq,D	109.0		197.06	-56.9	3.0	-3.6	-1.3	-0.24	-4.0	0.6	0.0	0.0	46.6	
xxxx xxxx xxxx xxxx	Leq,D		228								2.2			28.8	
xxxx xxxx xxxx xxxx	Leq,D		520								1.6			29.1	
xxxx xxxx xxxx xxxx	Leq,D		1341								2.7			44.8	
xxxx xxxx xxxx xxxx	Leq,D		450								5.5			32.8	
Receiver S-8 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 74.2 dB(A) Ld 7-19 dB(A) Leq,N 69.6 dB(A) Le 19-22 dB(A) CNEL 77.5 dB(A) Lmax day hr dB(A) Ld 7-19															
ID Fan Motor	Leq,D	104.4	2	180.75	-56.1	4.4	-19.0	-0.9		0.0	0.2	0.0	0.0	32.9	
18-1855 A/B	Leq,D	98.8		137.24	-53.7	4.6	-7.3	-0.5		0.0	0.0	0.0	0.0	41.9	
18-1856 A/B	Leq,D	98.8		144.10	-54.2	4.7	-5.6	-0.6		0.0	0.7	0.0	0.0	43.9	
18-1857 A/B	Leq,D	98.8		130.63	-53.3	4.6	-9.7	-0.4		0.0	1.5	0.0	0.0	41.4	
18-1858 A/B	Leq,D	98.8		126.03	-53.0	4.0	-10.4	-0.4		0.0	1.3	0.0	0.0	40.3	
18-PK 1802 Air Compressor Package	Leq,D	103.1		149.38	-54.5	5.2	0.0	-0.5		0.0	0.1	0.0	0.0	53.4	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	20.51	-37.2	3.0	0.0	-0.4		0.0	0.0	-2.7	0.0	71.7	
Air Compressor C 1	Leq,D	110.0	5	177.05	-56.0	5.0	-8.8	-0.4	-0.59	0.0	1.6	0.0	0.0	50.9	
Air Compressor Pump	Leq,D	100.3		61.99	-46.8	3.0	-15.7	-0.7		0.0	12.8	0.0	0.0	52.9	
Blower F 401	Leq,D	113.0		77.11	-48.7	3.0	-12.1	-0.1		0.0	0.2	0.0	0.0	55.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	230.15	-58.2	4.9	-12.0	-0.5		0.0	0.1	0.0	0.0	32.9	
Boiler Feed Water Pump A	Leq,D	97.1	3	150.88	-54.6	4.5	-7.1	-0.6		0.0	0.2	0.0	0.0	39.5	
Boiler Feed Water Pump B	Leq,D	97.1	3	149.82	-54.5	4.5	-7.2	-0.6		0.0	0.0	0.0	0.0	39.3	
C370 A Motor	Leq,D	103.6	3	87.47	-49.8	3.0	-18.1	-0.3		0.0	10.9	0.0	0.0	49.2	
C370 B Motor	Leq,D	108.6	3	94.73	-50.5	3.0	-12.7	-0.4		0.0	5.1	0.0	0.0	53.1	
C370A	Leq,D	103.8	5	90.89	-50.2	3.0	-6.9	-0.5		0.0	3.2	0.0	0.0	52.5	
C370B	Leq,D	103.8	5	97.90	-50.8	3.0	-10.6	-0.4		0.0	5.7	0.0	0.0	50.8	
C-270 A	Leq,D	106.3	6	181.96	-56.2	3.9	-0.5	-1.3	-1.31	0.0	0.9	0.0	0.0	51.8	
C-270 B	Leq,D	106.3	6	177.17	-56.0	3.8	-1.6	-1.2	-1.15	0.0	0.9	0.0	0.0	51.2	
C-270 C	Leq,D	106.3	6	172.46	-55.7	3.8	-3.4	-1.2	-1.04	0.0	0.9	0.0	0.0	49.7	
C-301 Compressor	Leq,D	106.8	3	193.97	-56.7	4.0	-0.2	-1.4	-2.10	0.0	0.6	0.0	0.0	50.9	
C-301 Motor	Leq,D	106.8	4	190.18	-56.6	4.0	0.0	-2.1	-2.07	0.0	0.9	0.0	0.0	50.9	
C-351 Compressor	Leq,D	106.8	4	199.31	-57.0	4.1	-0.1	-1.5	-2.19	0.0	0.6	0.0	0.0	50.7	
C-351 Motor	Leq,D	106.8	5	200.17	-57.0	3.6	-1.7	-2.1	-2.12	0.0	1.0	0.0	0.0	48.5	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	35.46	-42.0	3.1	-0.3	-0.1		0.0	0.1	-33.5	0.0	62.0	

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	127.20	-53.1	3.5	-12.1	-0.4	-1.05	2.4	2.0	0.0	0.0	46.1
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	128.37	-53.2	3.5	-5.8	-0.5	-1.17	0.0	1.3	0.0	0.0	44.8
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	138.08	-53.8	3.6	-18.1	-0.3	-1.04	-7.7	8.4	0.0	0.0	37.5
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	132.19	-53.4	3.5	-13.3	-0.6	-0.86	2.5	0.1	0.0	0.0	48.7
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	127.65	-53.1	3.5	-11.5	-0.3	-1.10	2.3	0.9	0.0	0.0	44.4
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	142.94	-54.1	3.5	-19.0	-0.5	-0.80	-7.8	7.3	0.0	0.0	29.2
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	97.13	-50.7	3.3	-13.7	-0.2		3.9	0.0	0.0	0.0	40.5
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	99.58	-51.0	3.3	-17.7	-0.3		-4.4	0.0	0.0	0.0	27.8
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	95.66	-50.6	3.0	-8.7	-0.4		-2.4	0.0	0.0	0.0	41.6
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	95.22	-50.6	3.1	-18.2	-0.3		-1.3	4.4	0.0	0.0	37.8
Cooling Tower M 512	Leq,D	95.7		91.90	-50.3	3.5	-20.1	-0.4		0.0	1.3	0.0	0.0	29.8
Cooling Tower M 513	Leq,D	95.7		92.10	-50.3	3.4	-20.8	-0.4		0.0	1.5	0.0	0.0	29.1
Cooling Tower M 514	Leq,D	95.7		91.45	-50.2	3.4	-20.5	-0.4		0.0	1.5	0.0	0.0	29.6
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	154.55	-54.8	3.0	-3.1	-0.5		-2.6	1.2	0.0	0.0	39.0
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	176.96	-55.9	4.0	-16.2	0.0		0.0	0.0	0.0	0.0	27.2
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	177.54	-56.0	4.1	-15.1	0.0		0.0	0.8	0.0	0.0	26.8
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	176.12	-55.9	3.0	-16.0	0.0		0.0	0.1	0.0	0.0	24.5
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	174.53	-55.8	3.9	-13.7	-0.1		0.0	0.1	0.0	0.0	27.6
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	175.10	-55.9	4.0	-13.9	0.0		0.0	0.1	0.0	0.0	29.6
FD Motor	Leq,D	103.3	2	177.82	-56.0	4.3	-23.6	-1.6		0.0	2.5	0.0	0.0	28.9
Feed Compressor -B Motor	Leq,D	103.8	5	114.70	-52.2	3.0	-12.5	-0.8		0.0	5.8	0.0	0.0	47.2
Feed Compressor-A Compressor	Leq,D	104.0	5	105.41	-51.4	3.0	-14.3	-0.4		0.0	8.3	0.0	0.0	49.2
Feed Compressor-A Motor	Leq,D	103.8	6	102.63	-51.2	3.0	-13.4	-0.6		0.0	5.9	0.0	0.0	47.4
Feed Compressor-B Compressor	Leq,D	104.0	7	117.55	-52.4	3.0	-11.5	-0.5		0.0	6.2	0.0	0.0	48.8
H2S Compressor 18-C-271	Leq,D	105.3	6	144.75	-54.2	4.0	-6.2	-0.6	-0.45	0.0	1.6	0.0	0.0	49.5
Heater # 5-Heater	Leq,D	91.1	13	226.95	-58.1	4.9	-18.4	-0.5		0.0	8.0	0.0	0.0	29.9
Heater # 5-Heater	Leq,D	91.1	13	222.33	-57.9	4.9	-18.1	-0.5		0.0	7.6	0.0	0.0	30.0
Heater # 5-Heater	Leq,D	91.1	13	231.49	-58.3	4.9	-18.8	-0.5	-0.03	0.0	8.0	0.0	0.0	29.4
Hydro Heater H-402	Leq,D	98.1		101.16	-51.1	3.7	-4.8	-0.2		0.0	0.1	0.0	0.0	45.8
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	180.37	-56.1	4.4	-13.5	0.0		0.0	0.0	0.0	0.0	21.7
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	178.94	-56.0	4.4	-11.3	0.0		0.0	0.0	0.0	0.0	24.3
ID Fan-ID Fan - North	Leq,D	92.2	8	179.56	-56.1	4.4	-13.9	0.0		0.0	0.0	0.0	0.0	26.6
ID Fan-ID Fan - North 2	Leq,D	91.4	7	180.99	-56.1	4.4	-11.6	0.0		0.0	0.0	0.0	0.0	28.0
ID Fan-ID Fan - South	Leq,D	92.3	9	177.52	-56.0	4.3	-3.9	0.0		0.0	0.0	0.0	0.0	36.7
ID Fan-ID Fan - South 2	Leq,D	91.4	7	180.09	-56.1	4.4	-5.7	0.0		0.0	0.0	0.0	0.0	33.9
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	179.09	-56.1	3.6	-6.8	-0.1		0.0	0.0	0.0	0.0	34.7
Motor & Pump P 56A/B	Leq,D	93.7		119.00	-52.5	4.1	-7.4	-0.6	-0.30	0.0	0.6	0.0	0.0	37.5
Motor & Pump P 120/121	Leq,D	96.2	2	165.07	-55.3	4.8	-16.9	-0.6	-0.27	0.0	1.3	0.0	0.0	29.2
Motor & Pump P 211/212	Leq,D	93.7		109.51	-51.8	4.2	-6.3	-0.7	-0.81	0.0	0.2	0.0	0.0	38.3
Motor & Pump P 215/214	Leq,D	94.6		113.55	-52.1	4.3	-8.2	-0.6	-0.88	0.0	0.1	0.0	0.0	37.1
Motor & Pump P 216	Leq,D	98.3		114.41	-52.2	4.0	-11.5	-0.6	-0.87	0.0	3.2	0.0	0.0	40.4
Motor & Pump P 217/218	Leq,D	93.7		111.10	-51.9	4.7	-7.4	-0.7	-0.85	0.0	0.1	0.0	0.0	37.7
Motor & Pump P 300	Leq,D	97.1	2	172.29	-55.7	4.9	-18.1	-0.6	-0.49	0.0	7.3	0.0	0.0	34.4
Motor & Pump P 301	Leq,D	102.1	2	170.79	-55.6	4.9	-18.1	-0.6	-0.49	0.0	7.6	0.0	0.0	39.8
Motor & Pump P 302	Leq,D	97.1	2	173.89	-55.8	4.9	-17.9	-0.6	-0.50	0.0	7.1	0.0	0.0	34.4
Motor & Pump P 303	Leq,D	97.1	2	175.27	-55.9	4.8	-17.5	-0.6	-0.50	0.0	6.8	0.0	0.0	34.3
Motor & Pump P 305	Leq,D	97.5	2	176.60	-55.9	4.8	-17.5	-0.6	-0.51	0.0	6.7	0.0	0.0	34.5
Motor & Pump P 306	Leq,D	112.6	4	184.75	-56.3	4.7	-18.3	-0.7	-0.43	0.0	4.8	0.0	0.0	46.4
Motor & Pump P 307	Leq,D	102.1	2	166.48	-55.4	4.8	-16.7	-0.6	-0.48	0.0	5.6	0.0	0.0	39.4
Motor & Pump P 309	Leq,D	97.5	2	177.94	-56.0	4.9	-17.6	-0.6	-0.51	0.0	6.6	0.0	0.0	34.3
Motor & Pump P 312	Leq,D	101.5	2	147.50	-54.4	4.9	-9.3	-0.5	-0.72	0.0	2.8	0.0	0.0	44.2
Motor & Pump P 313	Leq,D	101.5	2	145.99	-54.3	4.9	-5.7	-0.6	-0.83	0.0	1.1	0.0	0.0	46.1
Motor & Pump P 315	Leq,D	102.9	2	140.75	-54.0	4.6	-3.6	-0.6	-0.96	0.0	0.7	0.0	0.0	49.1
Motor & Pump P 316	Leq,D	102.9	2	139.11	-53.9	4.6	-4.0	-0.6	-1.00	0.0	1.0	0.0	0.0	49.1
Motor & Pump P 317	Leq,D	102.9	2	137.43	-53.8	4.5	-3.9	-0.6	-1.04	0.0	0.9	0.0	0.0	49.0
Motor & Pump P 318	Leq,D	100.2	1	142.11	-54.0	5.0	0.0	-0.8	-0.89	0.0	0.1	0.0	0.0	49.5
Motor & Pump P 319	Leq,D	100.2	1	143.36	-54.1	5.0	0.0	-0.8	-0.86	0.0	0.0	0.0	0.0	49.5
Motor & Pump P 327	Leq,D	111.2	3	192.24	-56.7	4.9	-22.4	-1.2	-0.08	0.0	3.1	0.0	0.0	38.9
Motor & Pump P 328	Leq,D	109.9	5	179.48	-56.1	4.7	-17.3	-0.6	-0.30	0.0	5.3	0.0	0.0	45.6
Motor & Pump P 329	Leq,D	110.2	5	182.08	-56.2	4.7	-18.1	-0.6	-0.31	0.0	6.1	0.0	0.0	45.7
Motor & Pump P 451	Leq,D	93.7		94.53	-50.5	3.6	-11.4	-0.5		0.0	0.7	0.0	0.0	35.5
Motor & Pump P 453	Leq,D	93.7		83.00	-49.4	3.2	-8.4	-0.4		0.0	1.0	0.0	0.0	39.7
Motor & Pump P 454	Leq,D	93.7		95.63	-50.6	3.6	-12.4	-0.4		0.0	0.7	0.0	0.0	34.6
Motor & Pump P 457	Leq,D	93.7		81.70	-49.2	3.2	-7.6	-0.4		0.0	0.8	0.0	0.0	40.4
Motor & Pump P 458	Leq,D	93.7		93.97	-50.5	3.6	-8.6	-0.5		0.0	0.0	0.0	0.0	37.8

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P 459	Leq,D	93.7		96.50	-50.7	3.6	-11.8	-0.5		0.0	0.7	0.0	0.0	35.0
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		115.89	-52.3	4.2	-17.2	-0.6		0.0	0.1	0.0	0.0	30.4
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		117.51	-52.4	4.2	-17.7	-0.6		0.0	0.1	0.0	0.0	29.9
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		148.35	-54.4	4.6	-20.2	-0.8	-0.27	0.0	4.1	0.0	0.0	28.4
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		149.50	-54.5	4.7	-20.2	-0.8	-0.27	0.0	7.4	0.0	0.0	31.7
Motor & Pump P 1601 A	Leq,D	96.3	2	112.15	-52.0	3.6	-21.7	-0.8		0.0	1.0	0.0	0.0	26.5
Motor & Pump P 1601 B	Leq,D	96.3	2	112.11	-52.0	3.6	-21.8	-0.8		0.0	0.4	0.0	0.0	25.7
Motor & Pump P 1602 A	Leq,D	96.3	2	111.89	-52.0	3.6	-21.9	-0.8		0.0	0.4	0.0	0.0	25.6
Motor & Pump P 1602 B	Leq,D	96.5	2	111.89	-52.0	3.6	-21.9	-0.8		0.0	0.3	0.0	0.0	25.8
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	114.28	-52.2	4.3	-20.8	-0.7	-0.08	0.0	0.5	0.0	0.0	27.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	119.07	-52.5	4.3	-20.2	-0.6	-0.19	0.0	0.4	0.0	0.0	27.8
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	121.48	-52.7	4.4	-19.9	-0.6	-0.24	0.0	0.4	0.0	0.0	27.9
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	118.78	-52.5	4.3	-17.9	-0.6		0.0	1.7	0.0	0.0	31.7
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	120.51	-52.6	4.3	-17.8	-0.6		0.0	2.7	0.0	0.0	32.6
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	125.51	-53.0	4.5	-16.5	-0.5	-0.17	0.0	0.5	0.0	0.0	31.1
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	125.82	-53.0	4.5	-20.4	-0.7	-0.35	0.0	1.7	0.0	0.0	28.1
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	126.37	-53.0	4.4	-19.8	-0.6	-0.35	0.0	0.0	0.0	0.0	26.9
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	126.08	-53.0	4.4	-21.0	-0.8	-0.21	0.0	2.1	0.0	0.0	27.9
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	169.28	-55.6	4.2	-13.6	-0.5		0.0	0.6	0.0	0.0	39.3
P-2 A/B	Leq,D	98.5		300.82	-60.6	5.6	-18.4	-1.0	-2.57	0.0	10.5	0.0	0.0	32.1
P-50 A/B	Leq,D	98.1		259.84	-59.3	5.5	-22.8	-1.0	-1.26	0.0	1.4	0.0	0.0	20.7
P-51 A/B	Leq,D	98.1		260.51	-59.3	5.5	-18.6	-0.9	-1.15	0.0	0.4	0.0	0.0	24.1
P-060 A/B	Leq,D	98.1		258.20	-59.2	5.5	-21.1	-0.8	-3.55	0.0	10.5	0.0	0.0	29.4
P-63	Leq,D	98.5		272.81	-59.7	5.6	-4.7	-1.4	-1.76	0.0	0.1	0.0	0.0	36.6
P-70 A/B	Leq,D	98.1		258.86	-59.3	5.5	-21.4	-0.8	-3.57	0.0	1.2	0.0	0.0	19.8
P-73 A/B	Leq,D	98.5		296.42	-60.4	5.6	-18.1	-1.0	-2.49	0.0	11.0	0.0	0.0	33.1
P-251 A/B	Leq,D	98.2		121.18	-52.7	5.0	0.0	-0.7	-0.99	0.0	0.3	0.0	0.0	49.2
P-252 A/B	Leq,D	98.2		123.43	-52.8	5.0	0.0	-0.7	-1.06	0.0	0.3	0.0	0.0	49.0
P-253	Leq,D	98.2		131.32	-53.4	5.1	0.0	-0.7	-1.23	0.0	0.3	0.0	0.0	48.3
P-254 A/B	Leq,D	98.2		132.68	-53.4	5.1	0.0	-0.7	-1.25	0.0	0.4	0.0	0.0	48.3
P-255 A/B	Leq,D	98.2		129.19	-53.2	5.1	0.0	-0.7	-1.17	0.0	0.4	0.0	0.0	48.6
P-255 A/B	Leq,D	98.2		113.82	-52.1	5.0	0.0	-0.6	-0.77	0.0	0.3	0.0	0.0	49.9
P-256 A/B	Leq,D	98.2		124.66	-52.9	5.1	0.0	-0.7	-1.07	0.0	0.3	0.0	0.0	48.9
P-259 A/B	Leq,D	98.2		117.61	-52.4	5.0	0.0	-0.6	-0.92	0.0	0.3	0.0	0.0	49.6
P-260	Leq,D	99.1		103.45	-51.3	4.9	0.0	-0.6	-0.63	0.0	0.2	0.0	0.0	51.7
P-261 A/B	Leq,D	98.0		79.11	-49.0	4.5	0.0	-0.5	-0.11	0.0	0.0	0.0	0.0	53.0
P-262 A/B	Leq,D	99.1		94.67	-50.5	4.8	0.0	-0.5	-0.44	0.0	0.2	0.0	0.0	52.6
P-263 A/B	Leq,D	99.4		98.85	-50.9	4.8	0.0	-0.6	-0.53	0.0	0.2	0.0	0.0	52.4
P-270 A/B	Leq,D	98.5		175.74	-55.9	5.3	-4.8	-0.9	-1.79	0.0	3.4	0.0	0.0	43.8
P-271 A/B	Leq,D	98.2		142.66	-54.1	5.2	0.0	-0.8	-1.46	0.0	0.4	0.0	0.0	47.5
P-272 A/B	Leq,D	98.2		137.82	-53.8	5.1	0.0	-0.7	-1.36	0.0	0.4	0.0	0.0	47.9
P-273 A/B	Leq,D	98.5		172.14	-55.7	5.3	-4.5	-0.9	-1.71	0.0	2.9	0.0	0.0	43.9
P-275 A/B/C	Leq,D	98.2		142.94	-54.1	5.2	0.0	-0.8	-1.48	0.0	0.3	0.0	0.0	47.4
P-305	Leq,D	99.3		203.46	-57.2	5.4	0.0	-1.0	-0.10	0.0	0.1	0.0	0.0	46.5
P-306	Leq,D	100.8		212.76	-57.5	5.4	0.0	-1.1	-0.33	0.0	0.1	0.0	0.0	47.3
P-309	Leq,D	99.3		205.69	-57.3	5.4	0.0	-1.1	-0.16	0.0	0.1	0.0	0.0	46.3
P-328	Leq,D	100.8		218.26	-57.8	5.5	0.0	-1.1	-0.46	0.0	0.1	0.0	0.0	47.0
P-329	Leq,D	100.8		215.54	-57.7	5.5	0.0	-1.1	-0.40	0.0	0.1	0.0	0.0	47.2
P-353	Leq,D	98.5		200.74	-57.0	5.0	-3.1	-1.4	-0.15	0.0	0.3	0.0	0.0	42.1
P-358 A/B	Leq,D	99.4		214.23	-57.6	5.4	-4.7	-1.1	-2.59	0.0	0.7	0.0	0.0	39.6
P-359 A/B	Leq,D	99.4		215.21	-57.6	5.5	-8.5	-0.7	-2.41	0.0	3.2	0.0	0.0	38.8
P-360 A/B	Leq,D	99.4		217.30	-57.7	5.5	-6.5	-0.7	-1.72	0.0	0.7	0.0	0.0	38.9
P-361A	Leq,D	98.1		255.69	-59.1	5.2	-4.2	-1.4	-2.82	0.0	1.7	0.0	0.0	37.4
P-371 A/B	Leq,D	98.0		71.74	-48.1	3.1	0.0	-0.4		0.0	0.1	0.0	0.0	52.7
P-373 A/B	Leq,D	98.0		79.45	-49.0	3.4	0.0	-0.5		0.0	0.3	0.0	0.0	52.2
P-374 A/B	Leq,D	98.0		77.82	-48.8	3.3	0.0	-0.4		0.0	0.2	0.0	0.0	52.3
P-375 A/B	Leq,D	98.0		74.76	-48.5	3.2	0.0	-0.4		0.0	0.1	0.0	0.0	52.4
P-376	Leq,D	98.0		76.77	-48.7	3.3	0.0	-0.4		0.0	0.2	0.0	0.0	52.4
P-376 A/B	Leq,D	98.0		81.52	-49.2	3.5	0.0	-0.5		0.0	1.2	0.0	0.0	53.0
P-377	Leq,D	98.0		76.01	-48.6	3.3	0.0	-0.4		0.0	0.2	0.0	0.0	52.4
P-1101 A	Leq,D	98.9		288.09	-60.2	5.3	-3.0	-1.1	-3.54	0.0	0.0	0.0	0.0	36.4
P-1103	Leq,D	98.9		286.62	-60.1	5.3	-3.0	-1.1	-3.54	0.0	0.0	0.0	0.0	36.4

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-1105 A/B/C	Leq,D	98.9		293.60	-60.3	5.3	-2.8	-1.1	-3.54	0.0	0.0	0.0	0.0	36.4
P-1800	Leq,D	98.9		328.07	-61.3	5.6	-12.6	-1.0	-1.86	0.0	5.6	0.0	0.0	33.4
P-1801	Leq,D	98.9		375.14	-62.5	5.7	-12.0	-1.2	-2.47	0.0	5.0	0.0	0.0	31.5
P-1802	Leq,D	98.9		374.49	-62.5	5.7	-24.6	-1.7	-0.28	0.0	17.1	0.0	0.0	32.6
P-1803	Leq,D	99.1		266.37	-59.5	5.6	-4.8	-1.3		0.0	1.2	0.0	0.0	40.3
P-1804	Leq,D	99.1		280.07	-59.9	5.6	-4.8	-1.4	-3.42	0.0	1.4	0.0	0.0	36.6
P-1805	Leq,D	99.1		283.24	-60.0	5.6	-4.8	-1.4	-3.42	0.0	1.5	0.0	0.0	36.6
P-1806	Leq,D	99.1		242.11	-58.7	5.5	-4.7	-1.2		0.0	1.0	0.0	0.0	41.0
P-1809 A	Leq,D	98.9		338.45	-61.6	5.7	-12.0	-1.1	-2.31	0.0	7.0	0.0	0.0	34.5
P-1810 A/B/C	Leq,D	99.0		285.25	-60.1	5.6	-4.8	-1.4	-1.98	0.0	1.9	0.0	0.0	38.3
P-1811 A/B	Leq,D	99.1		248.98	-58.9	5.5	-4.7	-1.2		0.0	2.2	0.0	0.0	41.9
P-1811 A/B	Leq,D	99.1		287.14	-60.2	5.6	-4.7	-1.4	-3.42	0.0	1.7	0.0	0.0	36.7
P-1847 A/B	Leq,D	99.4		266.03	-59.5	5.6	-7.8	-0.9		0.0	2.1	0.0	0.0	38.9
P-1849 A/B	Leq,D	99.4		272.49	-59.7	5.6	-6.1	-1.0		0.0	1.6	0.0	0.0	39.8
P-1853	Leq,D	99.1		154.65	-54.8	5.2	0.0	-0.8		0.0	0.7	0.0	0.0	49.4
Piping Furnace Tanks	Leq,D	87.1	72	137.11	-53.7	3.0	-1.8	-4.6		0.0	0.8	0.0	0.0	30.7
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	116.96	-52.4	3.0	-2.5	-4.3		0.0	1.5	0.0	0.0	43.7
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	124.84	-52.9	3.0	-14.6	-1.0		0.0	1.4	0.0	0.0	50.5
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	124.60	-52.9	3.0	-18.1	-3.0		0.0	1.7	0.0	0.0	45.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	352.72	-61.9	4.1	-21.2	-1.2		0.0	2.0	0.0	0.0	32.2
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	331.95	-61.4	4.0	-17.6	-1.1		0.0	3.9	0.0	0.0	38.9
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	303.68	-60.6	3.8	-7.6	-1.1		0.0	0.4	0.0	0.0	39.0
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	326.31	-61.3	3.6	-0.1	-1.6		0.0	0.1	0.0	0.0	51.9
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	301.02	-60.6	3.4	0.0	-1.5		0.0	3.3	0.0	0.0	48.7
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	309.06	-60.8	3.9	-6.4	-1.3		0.0	0.3	0.0	0.0	39.4
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	297.82	-60.5	3.8	-0.3	-1.5		0.0	0.8	0.0	0.0	49.1
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	304.78	-60.7	3.8	-3.9	-1.4		0.0	1.1	0.0	0.0	45.0
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	326.74	-61.3	3.0	-5.2	-1.5		0.0	1.8	0.0	0.0	49.9
PSA Pipe 3" Lagging	Leq,D	80.6	11	133.09	-53.5	3.0	-5.3	-1.3		0.0	1.2	0.0	0.0	24.7
PSA Skid Additional Piping w NC	Leq,D	116.6	57	123.59	-52.8	3.0	-15.2	-1.0		0.0	1.2	0.0	0.0	51.8
Reformer-Burner Reformer East	Leq,D	97.3	269	160.02	-55.1	3.0	-19.1	-0.8		0.0	1.3	0.0	0.0	29.7
Reformer-Burner Reformer North	Leq,D	95.9	192	148.62	-54.4	3.0	-0.5	-1.3		0.0	0.4	0.0	0.0	43.0
Reformer-Burner Reformer South	Leq,D	95.8	191	161.73	-55.2	3.0	-20.6	-0.9		0.0	1.4	0.0	0.0	26.6
Reformer-Burner Reformer West	Leq,D	97.3	268	150.01	-54.5	3.0	-2.8	-1.3		0.0	0.8	0.0	0.0	45.5
RFG A from battery to process	Leq,D	99.4	87	121.78	-52.7	3.0	-2.9	-4.3		0.0	0.9	0.0	0.0	43.3
RFG A from battery to process w NC	Leq,D	115.2	42	127.13	-53.1	3.0	-17.0	-3.1		0.0	2.2	0.0	0.0	47.2
Stack Noise	Leq,D	108.4		185.67	-56.4	3.0	-1.1	-1.7		-7.8	0.2	0.0	0.0	44.8
Steam Turbine-Facade 01	Leq,D	99.6	29	104.97	-51.4	3.2	0.0	-2.9		0.0	0.4	0.0	0.0	48.9
Steam Turbine-Facade 02	Leq,D	96.2	13	108.35	-51.7	3.6	-12.7	-1.4		0.0	0.3	0.0	0.0	34.4
Steam Turbine-Facade 03	Leq,D	99.6	29	108.40	-51.7	3.6	-18.2	-1.2		0.0	14.3	0.0	0.0	46.3
Steam Turbine-Facade 04	Leq,D	96.2	13	105.12	-51.4	3.5	0.0	-2.9		0.0	2.6	0.0	0.0	48.1
Steam Turbine-Roof 01	Leq,D	99.7	30	106.71	-51.6	3.0	-4.8	-2.9		0.0	3.4	0.0	0.0	46.9
Tank Farm Pump 1	Leq,D	99.0	3	260.22	-59.3	5.2	-6.0	-1.5		0.0	0.9	0.0	0.0	38.3
Tank Farm Pump 2	Leq,D	99.0	3	280.64	-60.0	5.3	-5.6	-1.7		0.0	0.9	0.0	0.0	37.9
Tank Farm Pump 3	Leq,D	99.0	3	286.31	-60.1	5.3	-5.5	-1.7		0.0	0.8	0.0	0.0	37.8
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	49.90	-45.0	3.0	0.0	-0.7		0.0	0.1	-11.8	0.0	58.0
XF-1502 Splitter Area 1	Leq,D	104.5		122.94	-52.8	3.0	-14.2	-0.4	0.00	-2.9	0.0	0.0	0.0	37.1
XF-1502 Splitter Area 2	Leq,D	104.5		119.25	-52.5	3.0	-10.9	-0.5	-0.18	-3.1	0.0	0.0	0.0	40.3
XF-1504 Splitter Area 1	Leq,D	104.5		122.29	-52.7	3.0	-12.0	-0.5	-0.17	-3.0	0.0	0.0	0.0	39.0
XF-1504 Splitter Area 2	Leq,D	104.5		118.58	-52.5	3.0	-12.0	-0.5	-0.17	-3.1	0.0	0.0	0.0	39.4
XF 251, 250, 271, 270	Leq,D	101.1	128	142.16	-54.0	3.0	0.0	-0.6	-1.39	-2.9	0.5	0.0	0.0	45.6
XF 260, 261A, 261 B	Leq,D	99.9	97	90.26	-50.1	3.0	0.0	-0.4	-0.31	-2.9	0.2	0.0	0.0	49.4
XF 304, XF 321	Leq,D	110.5	56	173.00	-55.8	3.0	-4.4	-0.5	-0.64	-2.4	0.7	0.0	0.0	50.5
XF 313, XF 314	Leq,D	113.0	18	200.03	-57.0	3.0	-10.5	-0.6	-0.49	-3.3	1.7	0.0	0.0	45.8
XF 335-1, XF 335-2	Leq,D	113.4	54	183.61	-56.3	3.0	-6.6	-0.7	-0.56	-2.5	0.4	0.0	0.0	50.2
XF 353A/B	Leq,D	95.4	35	222.92	-58.0	3.0	-0.2	-0.9	-2.36	-3.1	0.1	0.0	0.0	34.0
XF 353A/B	Leq,D	95.4	35	207.07	-57.3	3.0	0.0	-0.8	-2.36	-2.9	0.5	0.0	0.0	35.6
XF 354A/B	Leq,D	95.4	35	201.12	-57.1	3.0	0.0	-0.8	-0.10	-2.9	0.1	0.0	0.0	37.6
XF 503	Leq,D	113.0	21	120.19	-52.6	3.0	-2.0	-1.5	-0.74	-3.7	0.5	0.0	0.0	56.1
XF - 1601	Leq,D	96.6		111.70	-52.0	3.0	-7.0	-0.2		-1.6	0.7	0.0	0.0	39.5
XF - 1602	Leq,D	96.6		111.82	-52.0	3.0	-6.0	-0.2		-1.6	0.5	0.0	0.0	40.3
XF Module 1510	Leq,D	108.3		116.63	-52.3	3.0	-16.0	-0.4	-0.09	-2.6	0.0	0.0	0.0	39.9
XF Module 1519	Leq,D	109.0		121.85	-52.7	3.0	-15.5	-0.4	-0.20	-2.5	4.2	0.0	0.0	44.9
xxxx xxxx xxxx xxxx	Leq,D		228								3.4			27.6
xxxx xxxx xxxx xxxx	Leq,D		520								5.7			30.3

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
xxxx xxxx xxxx xxxx	Leq,D		1341								1.3			46.9	
xxxx xxxx xxxx xxxx	Leq,D		450								5.6			29.3	
Receiver S-9 Fl G 59 dB(A) 59 dB(A)	Lr,lim	dB(A)	Leq,D 76.3	dB(A)	Ld 7-19	dB(A)	Leq,N 75.8	dB(A)	Le 19-22	dB(A)	CNEL 82.5	dB(A)	Lmax day hr	dB(A)	Ld 7-19
ID Fan Motor	Leq,D	104.4	2	226.17	-58.1	4.7	-23.1	-1.6	-0.38	0.0	0.0	0.0	0.0	25.9	
18-1855 A/B	Leq,D	98.8		212.37	-57.5	5.1	-4.7	-0.8		0.0	1.0	0.0	0.0	41.8	
18-1856 A/B	Leq,D	98.8		219.38	-57.8	5.1	-4.5	-0.8		0.0	1.0	0.0	0.0	41.7	
18-1857 A/B	Leq,D	98.8		205.59	-57.3	5.1	-4.9	-0.8		0.0	1.0	0.0	0.0	42.0	
18-1858 A/B	Leq,D	98.8		200.90	-57.1	4.7	-5.0	-0.7		0.0	0.4	0.0	0.0	41.2	
18-PK 1802 Air Compressor Package	Leq,D	103.1		228.08	-58.2	5.5	-10.0	-0.4		0.0	0.3	0.0	0.0	40.3	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	46.82	-44.4	3.1	-0.1	-0.8		0.0	0.1	-2.7	0.0	64.1	
Air Compressor C 1	Leq,D	110.0	5	114.65	-52.2	4.5	-15.0	-0.2	-0.63	0.0	1.3	0.0	0.0	47.8	
Air Compressor Pump	Leq,D	100.3		139.42	-53.9	4.4	-13.7	-0.8		0.0	5.4	0.0	0.0	41.7	
Blower F 401	Leq,D	113.0		19.96	-37.0	3.0	-6.0	0.0		0.0	0.0	0.0	0.0	73.0	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	321.19	-61.1	5.2	-11.0	-0.8		0.0	4.0	0.0	0.0	34.9	
Boiler Feed Water Pump A	Leq,D	97.1	3	218.52	-57.8	5.0	-15.4	-0.7		0.0	5.2	0.0	0.0	33.4	
Boiler Feed Water Pump B	Leq,D	97.1	3	218.60	-57.8	5.0	-13.3	-0.7		0.0	3.9	0.0	0.0	34.1	
C370 A Motor	Leq,D	103.6	3	138.15	-53.8	3.0	-18.3	-0.5		0.0	5.1	0.0	0.0	39.1	
C370 B Motor	Leq,D	108.6	3	148.60	-54.4	3.1	-18.0	-0.5		0.0	7.6	0.0	0.0	46.4	
C370A	Leq,D	103.8	5	138.89	-53.8	3.0	-14.4	-0.4	-0.06	0.0	4.8	0.0	0.0	43.0	
C370B	Leq,D	103.8	5	149.30	-54.5	3.2	-14.5	-0.4	-0.01	0.0	0.0	0.0	0.0	37.6	
C-270 A	Leq,D	106.3	6	270.02	-59.6	4.6	0.0	-1.8	-1.88	0.0	1.5	0.0	0.0	49.0	
C-270 B	Leq,D	106.3	6	265.39	-59.5	4.5	-0.7	-1.7	-1.76	0.0	1.6	0.0	0.0	48.7	
C-270 C	Leq,D	106.3	6	260.84	-59.3	4.5	-2.7	-1.6	-1.70	0.0	1.8	0.0	0.0	47.3	
C-301 Compressor	Leq,D	106.8	3	278.42	-59.9	4.6	-6.0	-1.3	-0.89	0.0	1.4	0.0	0.0	44.8	
C-301 Motor	Leq,D	106.8	4	274.72	-59.8	4.6	-6.6	-1.8	-0.93	0.0	1.4	0.0	0.0	43.6	
C-351 Compressor	Leq,D	106.8	4	286.08	-60.1	4.7	-1.9	-1.7	-1.94	0.0	1.9	0.0	0.0	47.7	
C-351 Motor	Leq,D	106.8	5	287.49	-60.2	4.3	-1.2	-2.7	-2.23	0.0	1.4	0.0	0.0	46.3	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	35.46	-42.0	3.1	-0.4	-0.1		0.0	0.1	-33.5	0.0	61.8	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	44.94	-44.0	3.0	-10.6	-0.2	-0.63	4.5	1.8	0.0	0.0	58.5	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	49.35	-44.9	3.0	-0.7	-0.5	-0.61	0.0	0.0	0.0	0.0	56.9	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	54.88	-45.8	3.0	-16.6	-0.1	-0.47	-7.8	1.6	0.0	0.0	40.3	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	45.88	-44.2	3.0	-9.6	-0.3	-0.23	0.9	0.0	0.0	0.0	60.2	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	47.07	-44.4	3.0	-9.5	-0.2	-0.64	-0.1	0.1	0.0	0.0	52.1	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	54.79	-45.8	3.0	-16.1	-0.1	-0.06	-7.0	6.7	0.0	0.0	41.1	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	79.19	-49.0	3.2	-13.3	-0.3	-0.61	-7.8	16.0	0.0	0.0	46.0	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	69.53	-47.8	3.0	-6.9	-0.2	-0.71	2.3	0.5	0.0	0.0	48.1	
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	99.59	-51.0	3.1	-17.5	-0.3	-0.52	-7.8	1.1	0.0	0.0	27.7	
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	84.03	-49.5	3.1	-1.3	-0.6	-0.57	1.5	0.2	0.0	0.0	53.5	
Cooling Tower M 512	Leq,D	95.7		70.21	-47.9	3.0	-2.5	-0.4	-0.59	0.0	0.1	0.0	0.0	47.5	
Cooling Tower M 513	Leq,D	95.7		68.97	-47.8	3.0	-2.5	-0.4	-0.60	0.0	0.2	0.0	0.0	47.7	
Cooling Tower M 514	Leq,D	95.7		71.37	-48.1	3.0	0.0	-0.4	-0.57	0.0	0.1	0.0	0.0	49.8	
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	211.82	-57.5	3.0	-9.0	-0.3	-0.09	-1.7	0.7	0.0	0.0	30.8	
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	217.20	-57.7	4.4	-15.4	-0.1	-0.10	0.0	0.0	0.0	0.0	26.4	
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	216.71	-57.7	4.4	-14.1	-0.1	-0.10	0.0	0.0	0.0	0.0	25.6	
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	215.99	-57.7	3.5	-15.4	-0.1	-0.10	0.0	0.0	0.0	0.0	23.8	
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	215.24	-57.7	4.3	-12.6	-0.1	-0.11	0.0	0.0	0.0	0.0	27.2	
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	214.75	-57.6	4.4	-13.8	-0.1	-0.11	0.0	0.1	0.0	0.0	28.2	
FD Motor	Leq,D	103.3	2	218.30	-57.8	4.6	-23.3	-1.8	-0.44	0.0	0.6	0.0	0.0	25.2	
Feed Compressor -B Motor	Leq,D	103.8	5	179.62	-56.1	3.6	-19.3	-0.9		0.0	6.5	0.0	0.0	37.6	
Feed Compressor-A Compressor	Leq,D	104.0	5	165.72	-55.4	3.7	-19.5	-0.6		0.0	3.0	0.0	0.0	35.2	
Feed Compressor-A Motor	Leq,D	103.8	6	165.54	-55.4	3.4	-21.0	-1.0		0.0	8.5	0.0	0.0	38.3	
Feed Compressor-B Compressor	Leq,D	104.0	7	179.90	-56.1	3.8	-18.4	-0.6		0.0	5.4	0.0	0.0	38.2	
H2S Compressor 18-C-271	Leq,D	105.3	6	79.54	-49.0	3.0	-8.0	-0.3	-0.85	0.0	1.1	0.0	0.0	51.3	
Heater # 5-Heater	Leq,D	91.1	13	317.91	-61.0	5.2	-18.7	-0.7	0.00	0.0	0.3	0.0	0.0	19.2	
Heater # 5-Heater	Leq,D	91.1	13	313.36	-60.9	5.2	-17.9	-0.7		0.0	0.3	0.0	0.0	20.1	
Heater # 5-Heater	Leq,D	91.1	13	322.37	-61.2	5.2	-19.0	-0.7	-0.09	0.0	0.7	0.0	0.0	19.0	
Hydro Heater H-402	Leq,D	98.1		50.59	-45.1	3.0	0.0	-0.4	-0.93	0.0	0.0	0.0	0.0	54.7	
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	226.65	-58.1	4.7	-16.0	0.0	-0.06	0.0	0.0	0.0	0.0	17.5	
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	226.05	-58.1	4.7	-10.4	-0.1	-0.06	0.0	0.0	0.0	0.0	23.4	
ID Fan-ID Fan - North	Leq,D	92.2	8	225.43	-58.1	4.7	-15.6	0.0	-0.06	0.0	0.0	0.0	0.0	23.1	
ID Fan-ID Fan - North 2	Leq,D	91.4	7	227.63	-58.1	4.7	-12.9	0.0	-0.06	0.0	0.0	0.0	0.0	24.9	
ID Fan-ID Fan - South	Leq,D	92.3	9	224.53	-58.0	4.7	-5.9	-0.1	-0.07	0.0	0.0	0.0	0.0	33.0	
ID Fan-ID Fan - South 2	Leq,D	91.4	7	227.25	-58.1	4.7	-9.6	-0.1	-0.06	0.0	0.0	0.0	0.0	28.2	

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	225.65	-58.1	4.1	-13.0	0.0	-0.06	0.0	0.0	0.0	0.0	26.8
Motor & Pump P 56A/B	Leq,D	93.7		60.63	-46.6	3.0	0.0	-0.7	-1.09	0.0	0.1	0.0	0.0	48.3
Motor & Pump P 120/121	Leq,D	96.2	2	101.84	-51.2	4.0	-20.9	-0.4	-1.10	0.0	2.4	0.0	0.0	29.1
Motor & Pump P 211/212	Leq,D	93.7		31.43	-40.9	3.0	-5.9	-0.2	-0.56	0.0	0.4	0.0	0.0	49.4
Motor & Pump P 215/214	Leq,D	94.6		36.48	-42.2	3.0	0.0	-0.4	-0.58	0.0	0.2	0.0	0.0	54.6
Motor & Pump P 216	Leq,D	98.3		31.94	-41.1	3.0	0.0	-0.4	-0.47	0.0	0.1	0.0	0.0	59.4
Motor & Pump P 217/218	Leq,D	93.7		33.32	-41.4	3.0	-4.1	-0.3	-0.61	0.0	0.3	0.0	0.0	50.5
Motor & Pump P 300	Leq,D	97.1	2	103.70	-51.3	4.2	-1.9	-0.7	-1.01	0.0	0.0	0.0	0.0	46.4
Motor & Pump P 301	Leq,D	102.1	2	102.00	-51.2	4.1	-1.9	-0.7	-1.01	0.0	0.0	0.0	0.0	51.5
Motor & Pump P 302	Leq,D	97.1	2	105.50	-51.5	4.2	-1.9	-0.8	-1.01	0.0	0.0	0.0	0.0	46.2
Motor & Pump P 303	Leq,D	97.1	2	107.00	-51.6	4.1	-1.7	-0.8	-1.01	0.0	0.0	0.0	0.0	46.2
Motor & Pump P 305	Leq,D	97.5	2	108.50	-51.7	4.1	-1.7	-0.8	-1.01	0.0	0.0	0.0	0.0	46.5
Motor & Pump P 306	Leq,D	112.6	4	117.64	-52.4	4.0	-2.1	-1.5	-1.06	0.0	0.8	0.0	0.0	60.3
Motor & Pump P 307	Leq,D	102.1	2	97.10	-50.7	4.0	-1.8	-0.7	-1.01	0.0	0.0	0.0	0.0	51.9
Motor & Pump P 309	Leq,D	97.5	2	110.00	-51.8	4.2	-1.7	-0.8	-1.01	0.0	0.0	0.0	0.0	46.4
Motor & Pump P 312	Leq,D	101.5	2	75.02	-48.5	3.8	-2.5	-0.6	-1.01	0.0	0.0	0.0	0.0	52.8
Motor & Pump P 313	Leq,D	101.5	2	73.23	-48.3	3.8	-2.5	-0.6	-1.01	0.0	0.0	0.0	0.0	52.9
Motor & Pump P 315	Leq,D	102.9	2	66.74	-47.5	3.1	-1.6	-0.5	-1.01	0.0	0.0	0.0	0.0	55.4
Motor & Pump P 316	Leq,D	102.9	2	64.74	-47.2	3.0	-1.6	-0.5	-1.01	0.0	0.0	0.0	0.0	55.7
Motor & Pump P 317	Leq,D	102.9	2	62.74	-46.9	3.0	-1.2	-0.4	-1.01	0.0	0.0	0.0	0.0	56.3
Motor & Pump P 318	Leq,D	100.2	1	68.72	-47.7	3.9	-3.0	-0.6	-1.01	0.0	0.0	0.0	0.0	51.8
Motor & Pump P 319	Leq,D	100.2	1	70.22	-47.9	3.9	-3.0	-0.6	-1.01	0.0	0.0	0.0	0.0	51.6
Motor & Pump P 327	Leq,D	111.2	3	125.64	-53.0	4.4	-14.1	-0.6	-1.07	0.0	0.4	0.0	0.0	47.3
Motor & Pump P 328	Leq,D	109.9	5	111.80	-52.0	3.9	-1.9	-0.7	-1.02	0.0	0.2	0.0	0.0	58.3
Motor & Pump P 329	Leq,D	110.2	5	114.69	-52.2	3.9	-1.8	-0.7	-1.00	0.0	0.3	0.0	0.0	58.8
Motor & Pump P 451	Leq,D	93.7		46.02	-44.3	3.0	-8.3	-0.3	-0.75	0.0	0.3	0.0	0.0	43.3
Motor & Pump P 453	Leq,D	93.7		40.67	-43.2	3.0	0.0	-0.5	-0.53	0.0	0.0	0.0	0.0	52.5
Motor & Pump P 454	Leq,D	93.7		45.34	-44.1	3.0	-7.7	-0.3	-0.78	0.0	0.1	0.0	0.0	43.9
Motor & Pump P 457	Leq,D	93.7		39.86	-43.0	3.0	-3.5	-0.4	-0.53	0.0	0.0	0.0	0.0	49.3
Motor & Pump P 458	Leq,D	93.7		46.81	-44.4	3.0	-8.2	-0.3	-0.74	0.0	0.0	0.0	0.0	43.1
Motor & Pump P 459	Leq,D	93.7		46.10	-44.3	3.0	-7.0	-0.3	-0.79	0.0	0.1	0.0	0.0	44.4
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		77.44	-48.8	3.3	0.0	-0.8	-0.84	0.0	2.0	0.0	0.0	51.1
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		78.82	-48.9	3.4	0.0	-0.8	-0.86	0.0	0.5	0.0	0.0	49.5
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		111.98	-52.0	4.2	-11.1	-0.6	-1.37	0.0	1.3	0.0	0.0	35.8
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		113.00	-52.1	4.2	-11.1	-0.6	-1.38	0.0	0.9	0.0	0.0	35.5
Motor & Pump P 1601 A	Leq,D	96.3	2	97.25	-50.8	3.2	-14.5	-0.5	-0.66	0.0	0.2	0.0	0.0	33.4
Motor & Pump P 1601 B	Leq,D	96.3	2	98.44	-50.9	3.3	-14.8	-0.5	-0.65	0.0	1.4	0.0	0.0	34.2
Motor & Pump P 1602 A	Leq,D	96.3	2	99.21	-50.9	3.3	-14.9	-0.5	-0.65	0.0	1.2	0.0	0.0	33.8
Motor & Pump P 1602 B	Leq,D	96.5	2	100.37	-51.0	3.3	-14.5	-0.5	-0.63	0.0	1.5	0.0	0.0	34.6
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	83.72	-49.4	3.7	-6.9	-0.5	-0.88	0.0	0.1	0.0	0.0	42.7
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	87.42	-49.8	3.7	-7.5	-0.6	-0.33	0.0	0.3	0.0	0.0	42.4
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	89.34	-50.0	3.8	-6.9	-0.7	-0.44	0.0	0.1	0.0	0.0	42.4
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	80.34	-49.1	3.4	0.0	-0.9	-0.87	0.0	0.2	0.0	0.0	49.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	81.82	-49.2	3.5	0.0	-0.9	-0.89	0.0	0.1	0.0	0.0	49.3
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	97.60	-50.8	4.0	-7.8	-0.6	-0.36	0.0	0.5	0.0	0.0	41.2
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	96.17	-50.7	4.0	-5.7	-0.8	-0.35	0.0	0.1	0.0	0.0	42.9
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	93.67	-50.4	3.9	-0.8	-1.0	-1.05	0.0	0.1	0.0	0.0	47.0
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	94.74	-50.5	3.9	-4.7	-0.7	-1.13	0.0	0.1	0.0	0.0	43.3
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	119.87	-52.6	3.5	0.0	-0.9	-1.75	0.0	0.2	0.0	0.0	52.6
P-2 A/B	Leq,D	98.5		388.43	-62.8	5.7	-19.7	-1.2	-0.08	0.0	8.4	0.0	0.0	28.7
P-50 A/B	Leq,D	98.1		346.27	-61.8	5.7	-17.4	-1.0	-2.98	0.0	1.4	0.0	0.0	22.1
P-51 A/B	Leq,D	98.1		347.35	-61.8	5.7	-19.6	-1.2	-0.24	0.0	0.9	0.0	0.0	21.8
P-060 A/B	Leq,D	98.1		343.57	-61.7	5.7	-7.1	-1.3	-2.37	0.0	0.1	0.0	0.0	31.4
P-63	Leq,D	98.5		361.66	-62.2	5.7	-3.3	-1.4	-3.61	0.0	0.0	0.0	0.0	33.7
P-70 A/B	Leq,D	98.1		344.72	-61.7	5.7	-11.4	-1.1	-2.67	0.0	0.2	0.0	0.0	27.1
P-73 A/B	Leq,D	98.5		384.11	-62.7	5.7	-19.5	-1.3	-0.11	0.0	9.4	0.0	0.0	30.0
P-251 A/B	Leq,D	98.2		208.84	-57.4	5.4	0.0	-1.1	-1.05	0.0	0.0	0.0	0.0	44.1
P-252 A/B	Leq,D	98.2		209.02	-57.4	5.4	-7.7	-0.8	-0.72	0.0	0.2	0.0	0.0	37.2
P-253	Leq,D	98.2		216.62	-57.7	5.5	-4.0	-0.8	-0.74	0.0	0.0	0.0	0.0	40.4
P-254 A/B	Leq,D	98.2		219.86	-57.8	5.5	0.0	-1.1	-1.31	0.0	0.1	0.0	0.0	43.5
P-255 A/B	Leq,D	98.2		216.50	-57.7	5.5	0.0	-1.1	-1.23	0.0	0.0	0.0	0.0	43.6
P-255 A/B	Leq,D	98.2		201.77	-57.1	5.4	0.0	-1.0	-0.87	0.0	0.0	0.0	0.0	44.6

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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
P-256 A/B	Leq,D	98.2		212.15	-57.5	5.4	0.0	-1.1	-1.13	0.0	0.0	0.0	0.0	43.9
P-259 A/B	Leq,D	98.2		205.41	-57.2	5.4	0.0	-1.1	-0.97	0.0	0.0	0.0	0.0	44.4
P-260	Leq,D	99.1		189.80	-56.6	5.4	0.0	-1.0	-0.62	0.0	0.0	0.0	0.0	46.3
P-261 A/B	Leq,D	98.0		166.69	-55.4	5.3	0.0	-0.9	-0.11	0.0	0.0	0.0	0.0	46.9
P-262 A/B	Leq,D	99.1		181.42	-56.2	5.4	0.0	-0.9	-0.47	0.0	0.0	0.0	0.0	46.9
P-263 A/B	Leq,D	99.4		185.37	-56.4	5.4	0.0	-1.0	-0.57	0.0	0.0	0.0	0.0	46.9
P-270 A/B	Leq,D	98.5		261.16	-59.3	5.5	-8.9	-0.9	-1.10	0.0	0.0	0.0	0.0	33.8
P-271 A/B	Leq,D	98.2		229.46	-58.2	5.5	0.0	-1.2	-1.41	0.0	0.1	0.0	0.0	43.0
P-272 A/B	Leq,D	98.2		224.80	-58.0	5.5	0.0	-1.1	-1.38	0.0	0.1	0.0	0.0	43.2
P-273 A/B	Leq,D	98.5		257.68	-59.2	5.5	-8.4	-0.9	-1.09	0.0	1.6	0.0	0.0	36.0
P-275 A/B/C	Leq,D	98.2		227.81	-58.1	5.5	-10.4	-0.8	-0.76	0.0	0.0	0.0	0.0	33.6
P-305	Leq,D	99.3		294.01	-60.4	5.6	0.0	-1.4	-0.10	0.0	0.0	0.0	0.0	43.0
P-306	Leq,D	100.8		303.10	-60.6	5.6	0.0	-1.5	-0.34	0.0	0.0	0.0	0.0	44.0
P-309	Leq,D	99.3		296.18	-60.4	5.6	0.0	-1.4	-0.16	0.0	0.0	0.0	0.0	42.9
P-328	Leq,D	100.8		308.49	-60.8	5.6	-4.8	-1.5	-0.50	0.0	0.5	0.0	0.0	39.3
P-329	Leq,D	100.8		305.81	-60.7	5.6	-4.8	-1.5	-0.41	0.0	0.0	0.0	0.0	39.1
P-353	Leq,D	98.5		290.41	-60.3	5.3	-3.6	-1.8	-0.76	0.0	0.1	0.0	0.0	37.5
P-358 A/B	Leq,D	99.4		301.18	-60.6	5.6	-2.0	-1.3	-2.41	0.0	0.1	0.0	0.0	38.8
P-359 A/B	Leq,D	99.4		302.66	-60.6	5.6	-9.4	-1.0	-2.70	0.0	5.3	0.0	0.0	36.6
P-360 A/B	Leq,D	99.4		305.62	-60.7	5.6	-5.3	-1.1	-2.81	0.0	2.1	0.0	0.0	37.2
P-361A	Leq,D	98.1		338.59	-61.6	5.4	-8.3	-1.0	-0.21	0.0	2.2	0.0	0.0	34.6
P-371 A/B	Leq,D	98.0		96.09	-50.6	3.8	-10.6	-0.3	-0.29	0.0	0.6	0.0	0.0	40.6
P-373 A/B	Leq,D	98.0		115.21	-52.2	4.2	-18.2	-0.4	-0.24	0.0	2.4	0.0	0.0	33.5
P-374 A/B	Leq,D	98.0		111.44	-51.9	4.1	-18.2	-0.3	-0.25	0.0	2.4	0.0	0.0	33.8
P-375 A/B	Leq,D	98.0		102.91	-51.2	4.0	-17.8	-0.3	-0.29	0.0	1.2	0.0	0.0	33.6
P-376	Leq,D	98.0		108.99	-51.7	4.1	-18.2	-0.3	-0.26	0.0	2.6	0.0	0.0	34.2
P-376 A/B	Leq,D	98.0		119.31	-52.5	4.3	-18.2	-0.4	-0.23	0.0	3.7	0.0	0.0	34.7
P-377	Leq,D	98.0		106.80	-51.6	4.1	-18.1	-0.3	-0.27	0.0	3.2	0.0	0.0	35.0
P-1101 A	Leq,D	98.9		374.27	-62.5	5.4	-10.4	-1.2	-2.86	0.0	0.4	0.0	0.0	27.9
P-1103	Leq,D	98.9		372.83	-62.4	5.4	-10.2	-1.2	-2.87	0.0	0.3	0.0	0.0	28.0
P-1105 A/B/C	Leq,D	98.9		379.66	-62.6	5.5	-11.3	-1.1	-2.78	0.0	0.5	0.0	0.0	27.1
P-1800	Leq,D	98.9		416.75	-63.4	5.7	-12.2	-1.3	-3.79	0.0	5.7	0.0	0.0	29.6
P-1801	Leq,D	98.9		462.74	-64.3	5.7	-24.7	-2.0		0.0	2.1	0.0	0.0	15.8
P-1802	Leq,D	98.9		461.93	-64.3	5.7	-24.9	-2.1		0.0	13.3	0.0	0.0	26.6
P-1803	Leq,D	99.1		347.59	-61.8	5.7	-13.5	-1.1		0.0	3.7	0.0	0.0	32.0
P-1804	Leq,D	99.1		363.12	-62.2	5.7	-11.2	-1.2	-0.31	0.0	4.0	0.0	0.0	33.8
P-1805	Leq,D	99.1		366.24	-62.3	5.7	-11.2	-1.2	-0.31	0.0	4.0	0.0	0.0	33.8
P-1806	Leq,D	99.1		323.61	-61.2	5.6	-11.8	-0.9		0.0	4.2	0.0	0.0	34.9
P-1809 A	Leq,D	98.9		426.62	-63.6	5.7	-13.1	-1.2	-0.33	0.0	3.5	0.0	0.0	29.9
P-1810 A/B/C	Leq,D	99.0		366.78	-62.3	5.7	-24.7	-1.7		0.0	15.2	0.0	0.0	31.2
P-1811 A/B	Leq,D	99.1		330.42	-61.4	5.6	-11.9	-0.9		0.0	3.0	0.0	0.0	33.5
P-1811 A/B	Leq,D	99.1		370.09	-62.4	5.7	-11.1	-1.2	-0.31	0.0	4.0	0.0	0.0	33.8
P-1847 A/B	Leq,D	99.4		335.83	-61.5	5.6	-14.4	-1.0		0.0	6.6	0.0	0.0	34.8
P-1849 A/B	Leq,D	99.4		342.48	-61.7	5.7	-14.3	-1.0		0.0	6.4	0.0	0.0	34.6
P-1853	Leq,D	99.1		245.50	-58.8	5.5	0.0	-1.2		0.0	0.4	0.0	0.0	45.0
Piping Furnace Tanks	Leq,D	87.1	72	175.53	-55.9	3.0	-7.4	-5.1	-0.35	0.0	0.5	0.0	0.0	21.9
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	161.44	-55.2	3.0	-14.3	-4.2	-0.30	0.0	0.7	0.0	0.0	28.2
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	142.41	-54.1	3.0	-24.1	-1.2	-0.49	0.0	1.9	0.0	0.0	39.6
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	143.87	-54.2	3.1	-24.7	-4.5	-0.41	0.0	1.4	0.0	0.0	35.9
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	427.33	-63.6	4.3	-22.8	-1.6		0.0	0.8	0.0	0.0	27.7
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	402.80	-63.1	4.2	-18.6	-1.2		0.0	2.5	0.0	0.0	35.0
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	375.96	-62.5	4.1	-9.5	-1.2		0.0	0.2	0.0	0.0	35.3
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	403.93	-63.1	4.2	-13.5	-1.4		0.0	0.2	0.0	0.0	37.5
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	376.05	-62.5	4.1	-8.3	-1.3		0.0	0.3	0.0	0.0	36.3
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	380.69	-62.6	4.1	-12.4	-1.2		0.0	0.6	0.0	0.0	32.3
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	371.46	-62.4	4.1	-7.0	-1.3		0.0	0.7	0.0	0.0	40.9
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	380.93	-62.6	4.1	-7.0	-1.6		0.0	0.0	0.0	0.0	39.1
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	401.30	-63.1	3.0	-12.6	-1.5		0.0	0.7	0.0	0.0	39.7
PSA Pipe 3" Lagging	Leq,D	80.6	11	159.70	-55.1	3.0	-5.0	-1.8	-0.45	0.0	0.5	0.0	0.0	21.8
PSA Skid Additional Piping w NC	Leq,D	116.6	57	140.05	-53.9	3.0	-24.1	-1.2	-0.49	0.0	1.9	0.0	0.0	41.8
Reformer-Burner Reformer East	Leq,D	97.3	269	196.39	-56.9	3.0	-19.2	-0.9	-0.48	0.0	1.8	0.0	0.0	27.7
Reformer-Burner Reformer North	Leq,D	95.9	192	185.26	-56.3	3.0	-5.3	-1.3	-0.45	0.0	0.2	0.0	0.0	35.8
Reformer-Burner Reformer South	Leq,D	95.8	191	203.32	-57.2	3.0	-22.3	-1.2	-0.42	0.0	2.4	0.0	0.0	23.2
Reformer-Burner Reformer West	Leq,D	97.3	268	191.72	-56.6	3.0	-9.6	-0.8	-0.41	0.0	0.1	0.0	0.0	35.9
RFG A from battery to process	Leq,D	99.4	87	166.78	-55.4	3.0	-14.9	-4.1	-0.29	0.0	2.9	0.0	0.0	30.5
RFG A from battery to process w NC	Leq,D	115.2	42	145.13	-54.2	3.1	-24.4	-4.2	-0.43	0.0	1.9	0.0	0.0	36.9

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Stack Noise	Leq,D	108.4		232.55	-58.3	3.0	-2.6	-0.7	-0.28	-5.6	0.0	0.0	0.0	43.8	
Steam Turbine-Facade 01	Leq,D	99.6	29	129.05	-53.2	3.8	-5.2	-2.1	-0.43	0.0	0.0	0.0	0.0	42.5	
Steam Turbine-Facade 02	Leq,D	96.2	13	133.57	-53.5	3.9	-20.0	-1.7	-0.42	0.0	0.4	0.0	0.0	24.9	
Steam Turbine-Facade 03	Leq,D	99.6	29	130.47	-53.3	3.8	-18.3	-1.5	-0.45	0.0	3.6	0.0	0.0	33.5	
Steam Turbine-Facade 04	Leq,D	96.2	13	126.14	-53.0	3.8	-6.3	-1.8	-0.45	0.0	0.1	0.0	0.0	38.5	
Steam Turbine-Roof 01	Leq,D	99.7	30	129.86	-53.3	3.0	-11.2	-1.8	-0.45	0.0	0.3	0.0	0.0	36.4	
Tank Farm Pump 1	Leq,D	99.0	3	325.10	-61.2	5.4	-14.7	-1.2		0.0	4.9	0.0	0.0	32.1	
Tank Farm Pump 2	Leq,D	99.0	3	346.46	-61.8	5.4	-14.8	-1.3		0.0	5.1	0.0	0.0	31.7	
Tank Farm Pump 3	Leq,D	99.0	3	352.41	-61.9	5.4	-14.8	-1.3		0.0	5.0	0.0	0.0	31.4	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	48.61	-44.7	3.0	0.0	-0.7		0.0	0.1	-11.8	0.0	58.3	
XF-1502 Splitter Area 1	Leq,D	104.5		92.39	-50.3	3.0	-6.6	-0.5	-0.10	-3.8	0.5	0.0	0.0	46.7	
XF-1502 Splitter Area 2	Leq,D	104.5		89.49	-50.0	3.0	-10.2	-0.4	-0.09	-3.3	0.7	0.0	0.0	44.2	
XF-1504 Splitter Area 1	Leq,D	104.5		95.18	-50.6	3.0	-3.4	-0.6	-1.09	-3.9	0.3	0.0	0.0	48.2	
XF-1504 Splitter Area 2	Leq,D	104.5		92.36	-50.3	3.0	-3.8	-0.5	-0.97	-3.9	0.4	0.0	0.0	48.5	
XF 251, 250, 271, 270	Leq,D	101.1	128	228.13	-58.2	3.0	-1.4	-0.8	-0.81	-2.7	0.6	0.0	0.0	40.8	
XF 260, 261A, 261 B	Leq,D	99.9	97	178.47	-56.0	3.0	0.0	-0.7	-0.31	-2.9	0.0	0.0	0.0	42.9	
XF 304, XF 321	Leq,D	110.5	56	101.51	-51.1	3.0	-0.2	-0.5	-1.50	-2.8	0.1	0.0	0.0	57.5	
XF 313, XF 314	Leq,D	113.0	18	132.02	-53.4	3.0	-1.6	-0.7	-1.86	-4.0	0.1	0.0	0.0	54.5	
XF 335-1, XF 335-2	Leq,D	113.4	54	113.71	-52.1	3.0	-5.3	-0.4	-1.59	-2.6	0.3	0.0	0.0	54.7	
XF 353A/B	Leq,D	95.4	35	310.68	-60.8	3.3	-0.1	-1.1	-0.96	-3.0	0.9	0.0	0.0	33.7	
XF 353A/B	Leq,D	95.4	35	292.62	-60.3	3.1	-2.7	-0.9	-0.34	-2.5	1.3	0.0	0.0	33.2	
XF 354A/B	Leq,D	95.4	35	291.25	-60.3	3.1	0.0	-1.0	-0.09	-2.9	0.0	0.0	0.0	34.3	
XF 503	Leq,D	113.0	21	51.12	-45.2	3.0	0.0	-1.0	-0.91	-3.6	0.1	0.0	0.0	65.5	
XF - 1601	Leq,D	96.6		99.08	-50.9	3.0	-3.0	-0.3	-0.60	-2.1	0.1	0.0	0.0	42.9	
XF - 1602	Leq,D	96.6		103.72	-51.3	3.0	0.0	-0.4	-0.62	-2.5	0.1	0.0	0.0	44.9	
XF Module 1510	Leq,D	108.3		82.81	-49.4	3.0	-7.2	-0.4	-0.12	-3.7	0.4	0.0	0.0	51.0	
XF Module 1519	Leq,D	109.0		87.06	-49.8	3.0	0.0	-0.7	-0.91	-4.2	0.1	0.0	0.0	56.5	
xxxx xxxx xxxx xxxx	Leq,D		228								9.4			21.7	
xxxx xxxx xxxx xxxx	Leq,D		520								13.3			27.4	
xxxx xxxx xxxx xxxx	Leq,D		1341								13.1			38.3	
xxxx xxxx xxxx xxxx	Leq,D		450								6.6			26.3	
Receiver S-10 Fl G 59 dB(A) 59 dB(A) Lr,lim dB(A) Leq,D 71.0 dB(A) Ld 7-19 dB(A) Leq,N 69.0 dB(A) Le 19-22 dB(A) CNEL 76.0 dB(A) Lmax day hr dB(A) Ld 7-19															
ID Fan Motor	Leq,D	104.4	2	293.87	-60.4	5.0	-22.0	-1.8		0.0	0.2	0.0	0.0	25.5	
18-1855 A/B	Leq,D	98.8		296.80	-60.4	5.4	-12.9	-0.9	-0.88	0.0	1.1	0.0	0.0	30.1	
18-1856 A/B	Leq,D	98.8		303.67	-60.6	5.4	-16.4	-0.9	-0.88	0.0	2.3	0.0	0.0	27.8	
18-1857 A/B	Leq,D	98.8		290.16	-60.2	5.3	-13.1	-0.9	-0.88	0.0	1.0	0.0	0.0	30.0	
18-1858 A/B	Leq,D	98.8		285.58	-60.1	5.1	-13.0	-0.8	-0.88	0.0	1.2	0.0	0.0	30.3	
18-PK 1802 Air Compressor Package	Leq,D	103.1		313.77	-60.9	5.6	-13.0	-0.5		0.0	1.3	0.0	0.0	35.7	
2022 Track Mobile moving rail cars 2 x 25 cars day time	Leq,D	109.0	3558	57.68	-46.2	3.1	-0.1	-0.8		0.0	0.8	-2.7	0.0	63.1	
Air Compressor C 1	Leq,D	110.0	5	107.97	-51.7	4.4	-14.6	-0.2	-0.51	0.0	2.8	0.0	0.0	50.2	
Air Compressor Pump	Leq,D	100.3		227.50	-58.1	5.0	-4.5	-1.9	-0.86	0.0	0.1	0.0	0.0	39.9	
Blower F 401	Leq,D	113.0		107.58	-51.6	3.4	-3.7	-0.2	-0.70	0.0	0.1	0.0	0.0	60.3	
Boiler Crude Unit-Heater Opening	Leq,D	95.6	14	412.41	-63.3	5.4	-11.2	-1.0		0.0	2.1	0.0	0.0	30.5	
Boiler Feed Water Pump A	Leq,D	97.1	3	299.10	-60.5	5.2	-12.4	-1.0	-0.74	0.0	2.2	0.0	0.0	30.0	
Boiler Feed Water Pump B	Leq,D	97.1	3	299.73	-60.5	5.2	-11.2	-1.0	-0.75	0.0	1.8	0.0	0.0	30.7	
C370 A Motor	Leq,D	103.6	3	217.35	-57.7	4.0	-7.6	-0.9	-0.69	0.0	0.6	0.0	0.0	41.2	
C370 B Motor	Leq,D	108.6	3	227.84	-58.1	4.1	-6.9	-1.0	-0.69	0.0	0.6	0.0	0.0	46.6	
C370A	Leq,D	103.8	5	216.92	-57.7	4.1	-7.4	-0.9	-0.68	0.0	0.4	0.0	0.0	41.7	
C370B	Leq,D	103.8	5	227.43	-58.1	4.2	-8.9	-0.8	-0.67	0.0	0.6	0.0	0.0	40.1	
C-270 A	Leq,D	106.3	6	359.77	-62.1	4.9	-3.8	-2.0	-2.54	0.0	0.1	0.0	0.0	40.8	
C-270 B	Leq,D	106.3	6	355.25	-62.0	4.9	-4.2	-1.9	-2.50	0.0	0.0	0.0	0.0	40.6	
C-270 C	Leq,D	106.3	6	350.79	-61.9	4.9	-6.2	-1.8	-2.48	0.0	0.0	0.0	0.0	38.8	
C-301 Compressor	Leq,D	106.8	3	366.24	-62.3	4.9	-7.5	-1.3	-1.29	0.0	0.9	0.0	0.0	40.3	
C-301 Motor	Leq,D	106.8	4	362.62	-62.2	4.9	-9.2	-1.8	-1.49	0.0	1.1	0.0	0.0	38.2	
C-351 Compressor	Leq,D	106.8	4	375.07	-62.5	5.0	-3.9	-2.0	-2.34	0.0	0.0	0.0	0.0	41.1	
C-351 Motor	Leq,D	106.8	5	376.76	-62.5	4.7	-4.3	-3.0	-2.73	0.0	0.0	0.0	0.0	39.0	
Cars Pumping 6 times in during delivery	Leq,D	134.7	361	37.56	-42.5	3.1	-0.2	-0.1		0.0	0.7	-33.5	0.0	62.2	
Compressor House C301, C302, C 124-Comp House East 1	Leq,D	101.8	30	67.80	-47.6	3.0	-19.1	-0.2		-7.8	0.5	0.0	0.0	33.6	
Compressor House C301, C302, C 124-Comp House East 2	Leq,D	100.5	32	71.64	-48.1	3.1	-17.6	-0.3		0.0	0.4	0.0	0.0	38.0	
Compressor House C301, C302, C 124-Comp House North	Leq,D	103.5	141	58.69	-46.4	3.0	-5.9	-0.2		-0.7	0.6	0.0	0.0	56.9	
Compressor House C301, C302, C 124-Comp House South 1	Leq,D	107.7	116	57.48	-46.2	3.0	-17.1	-0.2		-2.7	0.3	0.0	0.0	47.8	
Compressor House C301, C302, C 124-Comp House South 2	Leq,D	100.8	24	69.64	-47.8	3.0	-18.1	-0.2		-0.6	0.2	0.0	0.0	40.3	
Compressor House C301, C302, C 124-Comp House West	Leq,D	97.4	62	48.24	-44.7	3.0	-5.9	-0.4		-0.6	1.0	0.0	0.0	52.9	
Cooling Tower CT 510-CT 510 East Side	Leq,D	94.9	34	140.75	-54.0	3.7	-18.2	-0.4	-0.70	-7.8	9.4	0.0	0.0	29.8	
Cooling Tower CT 510-CT 510 West Side	Leq,D	94.9	34	128.34	-53.2	3.5	-10.7	-0.3	-0.71	-0.7	2.1	0.0	0.0	37.8	

AltAir Paramount - WorldEnergy
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Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Cooling Tower CT 511-CT 511 East Side	Leq,D	97.6	65	165.51	-55.4	3.6	-18.7	-0.5	-0.70	-7.8	1.3	0.0	0.0	22.4
Cooling Tower CT 511-CT 511 West Side	Leq,D	97.7	66	147.52	-54.4	3.6	-11.0	-0.5	-0.70	-0.7	0.7	0.0	0.0	37.7
Cooling Tower M 512	Leq,D	95.7		134.67	-53.6	4.3	-16.3	-0.5		0.0	1.2	0.0	0.0	30.8
Cooling Tower M 513	Leq,D	95.7		133.24	-53.5	4.2	-16.3	-0.5		0.0	1.4	0.0	0.0	31.0
Cooling Tower M 514	Leq,D	95.7		136.19	-53.7	4.3	-16.2	-0.5		0.0	1.8	0.0	0.0	31.4
E 321 Fin Fan Hydrogen Plant - Low Noise	Leq,D	95.8	38	287.42	-60.2	3.4	-8.3	-0.6	-0.42	-2.0	0.4	0.0	0.0	28.1
FD Fan Assembly-FD Fan - East	Leq,D	95.4	17	282.41	-60.0	4.8	-13.0	-0.1	-0.14	0.0	0.0	0.0	0.0	26.9
FD Fan Assembly-FD Fan - North	Leq,D	93.1	10	281.30	-60.0	4.8	-7.7	-0.1	-0.22	0.0	0.0	0.0	0.0	29.9
FD Fan Assembly-FD Fan - Roof	Leq,D	93.4	11	281.13	-60.0	4.1	-14.6	-0.1	-0.01	0.0	0.0	0.0	0.0	22.9
FD Fan Assembly-FD Fan - South	Leq,D	93.2	10	280.92	-60.0	4.7	-10.6	-0.1	-0.06	0.0	0.0	0.0	0.0	27.2
FD Fan Assembly-FD Fan - West	Leq,D	95.3	17	279.82	-59.9	4.7	-8.2	-0.1	-0.01	0.0	0.0	0.0	0.0	31.8
FD Motor	Leq,D	103.3	2	283.57	-60.0	5.0	-21.4	-1.9	-0.85	0.0	0.6	0.0	0.0	24.6
Feed Compressor -B Motor	Leq,D	103.8	5	260.94	-59.3	4.3	-8.7	-1.7	-0.80	0.0	0.7	0.0	0.0	38.3
Feed Compressor-A Compressor	Leq,D	104.0	5	246.04	-58.8	4.4	-12.4	-0.9	-0.72	0.0	0.5	0.0	0.0	36.2
Feed Compressor-A Motor	Leq,D	103.8	6	246.97	-58.8	4.3	-12.1	-1.4	-0.86	0.0	0.9	0.0	0.0	35.7
Feed Compressor-B Compressor	Leq,D	104.0	7	260.06	-59.3	4.5	-11.5	-1.0	-0.69	0.0	1.1	0.0	0.0	37.1
H2S Compressor 18-C-271	Leq,D	105.3	6	91.87	-50.3	3.0	-6.0	-0.5	-0.40	0.0	0.2	0.0	0.0	51.4
Heater # 5-Heater	Leq,D	91.1	13	409.09	-63.2	5.4	-19.1	-0.9	-0.02	0.0	0.2	0.0	0.0	16.4
Heater # 5-Heater	Leq,D	91.1	13	404.58	-63.1	5.4	-18.1	-0.9		0.0	0.1	0.0	0.0	17.5
Heater # 5-Heater	Leq,D	91.1	13	413.50	-63.3	5.4	-19.2	-0.9	-0.17	0.0	0.4	0.0	0.0	16.3
Hydro Heater H-402	Leq,D	98.1		107.75	-51.6	3.9	-11.3	-0.2	-0.79	0.0	0.6	0.0	0.0	38.6
ID Fan-ID Fan - East 1 (128306)	Leq,D	87.0	3	294.85	-60.4	5.0	-14.8	-0.1		0.0	0.0	0.0	0.0	16.8
ID Fan-ID Fan - East (128302)	Leq,D	87.3	3	294.78	-60.4	5.0	-13.9	-0.1		0.0	0.0	0.0	0.0	17.9
ID Fan-ID Fan - North	Leq,D	92.2	8	293.46	-60.3	5.0	-14.4	-0.1		0.0	0.0	0.0	0.0	22.4
ID Fan-ID Fan - North 2	Leq,D	91.4	7	295.97	-60.4	5.0	-14.6	-0.1		0.0	0.0	0.0	0.0	21.3
ID Fan-ID Fan - South	Leq,D	92.3	9	293.31	-60.3	5.0	-13.3	-0.1		0.0	0.0	0.0	0.0	23.6
ID Fan-ID Fan - South 2	Leq,D	91.4	7	295.93	-60.4	5.0	-13.5	-0.1		0.0	0.0	0.0	0.0	22.4
ID Fan-ID Fan Roof 01 (128293)	Leq,D	94.0	13	294.09	-60.4	4.5	-15.9	-0.1		0.0	0.0	0.0	0.0	22.2
Motor & Pump P 56A/B	Leq,D	93.7		99.56	-51.0	3.7	0.0	-1.0	-0.54	0.0	0.5	0.0	0.0	45.3
Motor & Pump P 120/121	Leq,D	96.2	2	101.08	-51.1	4.0	-14.0	-0.3	-0.48	0.0	0.1	0.0	0.0	34.4
Motor & Pump P 211/212	Leq,D	93.7		81.88	-49.3	3.5	-2.8	-0.7	-0.25	0.0	0.7	0.0	0.0	44.9
Motor & Pump P 215/214	Leq,D	94.6		80.57	-49.1	3.6	-8.3	-0.5	-0.14	0.0	1.0	0.0	0.0	41.1
Motor & Pump P 216	Leq,D	98.3		75.32	-48.5	3.0	-2.3	-0.7	-0.11	0.0	0.7	0.0	0.0	50.4
Motor & Pump P 217/218	Leq,D	93.7		81.25	-49.2	4.3	-3.8	-0.6	-0.25	0.0	0.6	0.0	0.0	44.7
Motor & Pump P 300	Leq,D	97.1	2	92.42	-50.3	3.9	-15.7	-0.3	-0.51	0.0	3.2	0.0	0.0	37.4
Motor & Pump P 301	Leq,D	102.1	2	91.43	-50.2	3.9	-15.3	-0.3	-0.51	0.0	2.9	0.0	0.0	42.6
Motor & Pump P 302	Leq,D	97.1	2	93.51	-50.4	4.0	-16.3	-0.3	-0.52	0.0	3.6	0.0	0.0	37.1
Motor & Pump P 303	Leq,D	97.1	2	94.34	-50.5	3.8	-13.9	-0.3	-0.53	0.0	1.7	0.0	0.0	37.4
Motor & Pump P 305	Leq,D	97.5	2	95.28	-50.6	3.9	-12.1	-0.3	-0.53	0.0	0.5	0.0	0.0	38.4
Motor & Pump P 306	Leq,D	112.6	4	101.33	-51.1	3.6	-18.4	-0.5	-0.24	0.0	6.1	0.0	0.0	52.2
Motor & Pump P 307	Leq,D	102.1	2	88.66	-49.9	3.8	-10.6	-0.3	-0.49	0.0	0.1	0.0	0.0	44.7
Motor & Pump P 309	Leq,D	97.5	2	96.22	-50.7	3.9	-12.2	-0.3	-0.54	0.0	0.5	0.0	0.0	38.2
Motor & Pump P 312	Leq,D	101.5	2	78.89	-48.9	3.9	-7.8	-0.4	-0.43	0.0	0.2	0.0	0.0	48.1
Motor & Pump P 313	Leq,D	101.5	2	78.31	-48.9	3.9	-4.3	-0.3	-0.43	0.0	0.1	0.0	0.0	51.6
Motor & Pump P 315	Leq,D	102.9	2	76.28	-48.6	3.5	0.0	-0.4	-0.39	0.0	0.0	0.0	0.0	56.9
Motor & Pump P 316	Leq,D	102.9	2	75.84	-48.6	3.5	0.0	-0.4	-0.24	0.0	0.0	0.0	0.0	57.1
Motor & Pump P 317	Leq,D	102.9	2	75.54	-48.6	3.3	0.0	-0.4	-0.05	0.0	0.0	0.0	0.0	57.1
Motor & Pump P 318	Leq,D	100.2	1	77.27	-48.8	4.1	0.0	-0.4	-0.41	0.0	0.0	0.0	0.0	54.7
Motor & Pump P 319	Leq,D	100.2	1	77.67	-48.8	4.1	-1.9	-0.6	-0.40	0.0	0.1	0.0	0.0	52.6
Motor & Pump P 327	Leq,D	111.2	3	106.46	-51.5	4.1	-16.4	-0.5	-0.57	0.0	5.3	0.0	0.0	51.7
Motor & Pump P 328	Leq,D	109.9	5	97.48	-50.8	3.5	-12.9	-0.3	-0.49	0.0	2.1	0.0	0.0	51.2
Motor & Pump P 329	Leq,D	110.2	5	99.38	-50.9	3.6	-17.6	-0.4	-0.20	0.0	5.9	0.0	0.0	50.5
Motor & Pump P 451	Leq,D	93.7		109.65	-51.8	3.9	-11.6	-0.5	-0.72	0.0	1.7	0.0	0.0	34.6
Motor & Pump P 453	Leq,D	93.7		114.63	-52.2	4.0	-13.2	-0.6	-0.84	0.0	0.3	0.0	0.0	31.1
Motor & Pump P 454	Leq,D	93.7		108.12	-51.7	3.9	-11.8	-0.5	-0.72	0.0	2.3	0.0	0.0	35.1
Motor & Pump P 457	Leq,D	93.7		115.00	-52.2	4.0	-8.2	-0.7	-0.84	0.0	1.0	0.0	0.0	36.8
Motor & Pump P 458	Leq,D	93.7		110.79	-51.9	3.9	-11.7	-0.6	-0.72	0.0	1.7	0.0	0.0	34.4
Motor & Pump P 459	Leq,D	93.7		107.99	-51.7	3.9	-12.5	-0.5	-0.72	0.0	2.7	0.0	0.0	34.8
Motor & Pump P 1505 FRESH FEED PUMPS	Leq,D	96.2		123.65	-52.8	4.3	-10.1	-0.6	-0.22	0.0	0.0	0.0	0.0	36.7
Motor & Pump P 1506 FRESH FEED PUMPS	Leq,D	96.2		123.85	-52.8	4.3	-5.8	-0.9	-0.21	0.0	0.7	0.0	0.0	41.6
Motor & Pump P 1509 Chloride Injection P	Leq,D	95.4		140.69	-54.0	4.6	-8.8	-0.9	-0.77	0.0	0.0	0.0	0.0	35.6
Motor & Pump P 1510 Chloride Injection P	Leq,D	95.4		141.10	-54.0	4.6	-10.5	-0.8	-0.78	0.0	0.1	0.0	0.0	34.1
Motor & Pump P 1601 A	Leq,D	96.3	2	151.87	-54.6	4.2	-8.9	-0.8	-0.05	0.0	5.0	0.0	0.0	41.2
Motor & Pump P 1601 B	Leq,D	96.3	2	153.41	-54.7	4.2	-8.4	-0.9		0.0	4.8	0.0	0.0	41.4
Motor & Pump P 1602 A	Leq,D	96.3	2	154.55	-54.8	4.3	-7.3	-1.0		0.0	4.2	0.0	0.0	41.7
Motor & Pump P 1602 B	Leq,D	96.5	2	156.05	-54.9	4.3	-6.8	-1.1		0.0	4.0	0.0	0.0	42.1
Motor & Pump P - 1502 Splitter Reflux Pu	Leq,D	96.6	2	132.97	-53.5	4.5	-6.6	-0.7	-0.34	0.0	2.0	0.0	0.0	42.0

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
Motor & Pump P - 1503 Splitter Bottoms P	Leq,D	96.6	2	133.52	-53.5	4.5	-2.5	-1.0	-0.33	0.0	0.7	0.0	0.0	44.5
Motor & Pump P - 1504 Splitter Bottoms P	Leq,D	96.6	2	133.89	-53.5	4.5	0.0	-1.3	-0.32	0.0	0.1	0.0	0.0	46.0
Motor & Pump P - 1507 Reactor Pump	Leq,D	96.7	2	124.60	-52.9	4.3	-2.9	-0.9	-0.21	0.0	0.4	0.0	0.0	44.5
Motor & Pump P - 1508 Reactor Pump	Leq,D	96.7	2	124.85	-52.9	4.3	-0.4	-1.2	-0.21	0.0	0.2	0.0	0.0	46.5
Motor & Pump P - 1511 Stabilizer Reflux	Leq,D	96.3	2	141.50	-54.0	4.6	0.0	-1.4	-0.57	0.0	0.1	0.0	0.0	45.1
Motor & Pump P - 1512 Stabilizer Reflux	Leq,D	96.3	2	139.24	-53.9	4.6	0.0	-1.4	-0.55	0.0	0.4	0.0	0.0	45.5
Motor & Pump P - 1513 Caustic Circulatin	Leq,D	96.3	2	135.28	-53.6	4.5	0.0	-1.3	-0.50	0.0	0.9	0.0	0.0	46.3
Motor & Pump P - 1514 Caustic Circulatin	Leq,D	96.3	2	137.03	-53.7	4.6	0.0	-1.3	-0.52	0.0	0.8	0.0	0.0	46.1
Nitrogen Skid w Compressor 18-PK 1806	Leq,D	104.2	5	129.69	-53.3	3.7	-18.2	-0.5	-0.57	0.0	1.3	0.0	0.0	36.6
P-2 A/B	Leq,D	98.5		477.47	-64.6	5.8	-20.9	-1.6	-0.91	0.0	2.3	0.0	0.0	18.6
P-50 A/B	Leq,D	98.1		434.76	-63.8	5.7	-13.5	-1.3	-3.22	0.0	0.0	0.0	0.0	22.0
P-51 A/B	Leq,D	98.1		436.07	-63.8	5.7	-22.8	-1.7	-1.12	0.0	0.0	0.0	0.0	14.5
P-060 A/B	Leq,D	98.1		431.44	-63.7	5.7	-9.8	-1.4	-2.48	0.0	0.0	0.0	0.0	26.4
P-63	Leq,D	98.5		451.55	-64.1	5.7	-5.9	-1.7	-4.52	0.0	2.1	0.0	0.0	30.2
P-70 A/B	Leq,D	98.1		432.87	-63.7	5.7	-9.6	-1.4	-2.90	0.0	0.0	0.0	0.0	26.2
P-73 A/B	Leq,D	98.5		473.22	-64.5	5.8	-20.7	-1.6	-0.91	0.0	7.8	0.0	0.0	24.3
P-251 A/B	Leq,D	98.2		298.77	-60.5	5.6	-4.6	-1.1	-1.96	0.0	0.0	0.0	0.0	35.6
P-252 A/B	Leq,D	98.2		298.11	-60.5	5.6	-10.1	-1.0	-1.48	0.0	1.1	0.0	0.0	31.8
P-253	Leq,D	98.2		305.50	-60.7	5.6	-7.8	-1.0	-1.49	0.0	0.7	0.0	0.0	33.5
P-254 A/B	Leq,D	98.2		309.50	-60.8	5.6	-5.6	-1.1	-2.07	0.0	0.0	0.0	0.0	34.2
P-255 A/B	Leq,D	98.2		306.23	-60.7	5.6	-7.3	-1.1	-2.07	0.0	0.0	0.0	0.0	32.7
P-255 A/B	Leq,D	98.2		291.87	-60.3	5.6	-5.2	-1.0	-1.73	0.0	0.0	0.0	0.0	35.5
P-256 A/B	Leq,D	98.2		302.00	-60.6	5.6	-3.5	-1.2	-2.00	0.0	0.0	0.0	0.0	36.5
P-259 A/B	Leq,D	98.2		295.42	-60.4	5.6	-5.1	-1.1	-1.84	0.0	0.0	0.0	0.0	35.4
P-260	Leq,D	99.1		279.41	-59.9	5.6	-8.7	-1.0	-1.44	0.0	1.2	0.0	0.0	34.9
P-261 A/B	Leq,D	98.0		256.97	-59.2	5.5	-6.6	-0.9	-0.83	0.0	0.6	0.0	0.0	36.7
P-262 A/B	Leq,D	99.1		271.26	-59.7	5.6	-5.3	-1.0	-1.35	0.0	0.6	0.0	0.0	37.9
P-263 A/B	Leq,D	99.4		275.09	-59.8	5.6	-9.2	-0.9	-1.41	0.0	1.3	0.0	0.0	35.0
P-270 A/B	Leq,D	98.5		349.63	-61.9	5.7	-13.4	-1.0	-1.68	0.0	0.0	0.0	0.0	26.2
P-271 A/B	Leq,D	98.2		318.86	-61.1	5.6	-3.9	-1.3	-2.08	0.0	0.0	0.0	0.0	35.5
P-272 A/B	Leq,D	98.2		314.31	-60.9	5.6	-3.6	-1.3	-2.06	0.0	0.0	0.0	0.0	36.0
P-273 A/B	Leq,D	98.5		346.25	-61.8	5.7	-7.8	-1.3	-1.64	0.0	0.0	0.0	0.0	31.7
P-275 A/B/C	Leq,D	98.2		316.36	-61.0	5.6	-9.7	-1.1	-1.48	0.0	1.0	0.0	0.0	31.6
P-305	Leq,D	99.3		384.97	-62.7	5.7	-7.4	-1.3	-0.63	0.0	0.0	0.0	0.0	33.0
P-306	Leq,D	100.8		393.94	-62.9	5.7	-4.8	-1.8	-1.13	0.0	0.0	0.0	0.0	35.9
P-309	Leq,D	99.3		387.11	-62.7	5.7	-7.4	-1.3	-0.75	0.0	0.0	0.0	0.0	32.8
P-328	Leq,D	100.8		399.26	-63.0	5.7	-5.0	-1.7	-1.50	0.0	0.0	0.0	0.0	35.2
P-329	Leq,D	100.8		396.62	-63.0	5.7	-5.0	-1.7	-1.33	0.0	0.0	0.0	0.0	35.4
P-353	Leq,D	98.5		380.92	-62.6	5.5	-4.1	-1.5	-1.91	0.0	1.0	0.0	0.0	34.9
P-358 A/B	Leq,D	99.4		390.18	-62.8	5.7	-4.5	-1.5	-2.84	0.0	0.0	0.0	0.0	33.5
P-359 A/B	Leq,D	99.4		391.93	-62.9	5.7	-15.3	-1.1	-3.14	0.0	0.0	0.0	0.0	22.7
P-360 A/B	Leq,D	99.4		395.37	-62.9	5.7	-10.9	-1.2	-3.55	0.0	4.2	0.0	0.0	30.6
P-361A	Leq,D	98.1		425.00	-63.6	5.5	-13.2	-1.1	-0.21	0.0	1.5	0.0	0.0	27.0
P-371 A/B	Leq,D	98.0		173.32	-55.8	4.8	-2.9	-0.7	-0.75	0.0	0.0	0.0	0.0	42.7
P-373 A/B	Leq,D	98.0		192.24	-56.7	4.9	-7.3	-0.7	-0.74	0.0	0.1	0.0	0.0	37.7
P-374 A/B	Leq,D	98.0		188.43	-56.5	4.9	-7.2	-0.7	-0.74	0.0	0.0	0.0	0.0	37.9
P-375 A/B	Leq,D	98.0		179.76	-56.1	4.8	-6.8	-0.6	-0.74	0.0	0.2	0.0	0.0	38.8
P-376	Leq,D	98.0		185.98	-56.4	4.9	-7.0	-0.7	-0.74	0.0	0.1	0.0	0.0	38.2
P-376 A/B	Leq,D	98.0		196.33	-56.9	4.9	-7.5	-0.7	-0.74	0.0	0.4	0.0	0.0	37.6
P-377	Leq,D	98.0		183.73	-56.3	4.9	-7.0	-0.6	-0.74	0.0	0.1	0.0	0.0	38.3
P-1101 A	Leq,D	98.9		462.48	-64.3	5.6	-6.7	-1.5	-2.99	0.0	0.0	0.0	0.0	28.9
P-1103	Leq,D	98.9		461.05	-64.3	5.6	-6.7	-1.5	-3.01	0.0	0.0	0.0	0.0	29.0
P-1105 A/B/C	Leq,D	98.9		467.77	-64.4	5.6	-12.2	-1.4	-1.22	0.0	0.0	0.0	0.0	25.3
P-1800	Leq,D	98.9		506.41	-65.1	5.8	-8.2	-1.7	-4.29	0.0	1.7	0.0	0.0	27.1
P-1801	Leq,D	98.9		551.59	-65.8	5.8	-24.7	-2.3	-0.88	0.0	13.3	0.0	0.0	24.2
P-1802	Leq,D	98.9		550.68	-65.8	5.8	-24.9	-2.4	-0.88	0.0	13.5	0.0	0.0	24.2
P-1803	Leq,D	99.1		432.91	-63.7	5.7	-11.1	-1.4	-0.88	0.0	0.3	0.0	0.0	28.1
P-1804	Leq,D	99.1		449.44	-64.0	5.7	-19.9	-1.2	-0.32	0.0	0.3	0.0	0.0	19.7
P-1805	Leq,D	99.1		452.50	-64.1	5.7	-19.5	-1.3	-0.32	0.0	0.2	0.0	0.0	19.8
P-1806	Leq,D	99.1		409.33	-63.2	5.7	-8.3	-1.3	-0.88	0.0	1.9	0.0	0.0	33.0
P-1809 A	Leq,D	98.9		515.92	-65.2	5.8	-16.5	-1.5	-0.92	0.0	9.1	0.0	0.0	29.6
P-1810 A/B/C	Leq,D	99.0		452.11	-64.1	5.7	-24.8	-2.0	-0.85	0.0	6.7	0.0	0.0	19.8
P-1811 A/B	Leq,D	99.1		416.04	-63.4	5.7	-8.0	-1.3	-0.88	0.0	1.2	0.0	0.0	32.5
P-1811 A/B	Leq,D	99.1		456.30	-64.2	5.7	-19.2	-1.3	-0.32	0.0	1.1	0.0	0.0	20.9
P-1847 A/B	Leq,D	99.4		414.15	-63.3	5.7	-9.1	-1.3	-0.74	0.0	1.6	0.0	0.0	32.2
P-1849 A/B	Leq,D	99.4		420.78	-63.5	5.7	-9.1	-1.3	-0.74	0.0	1.2	0.0	0.0	31.7
P-1853	Leq,D	99.1		336.67	-61.5	5.6	-4.1	-1.8		0.0	0.8	0.0	0.0	38.1

AltAir Paramount - WorldEnergy
Mean propagation Leq - Case 3

Source	Time slice	Lw	l or A	S	Adiv	Agr	Abar	Aatm	Amisc	ADI	dLrefl	dLw	ZR	Lr	
		dB(A)	m,m²	m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	
Piping Furnace Tanks	Leq,D	87.1	72	244.77	-58.8	3.3	-11.6	-4.7	-0.30	0.0	5.6	0.0	0.0	20.6	
Piping Hydrogen Tanks Compressor	Leq,D	98.4	69	234.33	-58.4	3.2	-12.1	-4.5	-0.58	0.0	2.4	0.0	0.0	28.5	
Piping Hydrogen Tanks Compressor w NC	Leq,D	114.6	36	204.61	-57.2	3.8	-7.6	-1.8	-0.71	0.0	0.1	0.0	0.0	51.2	
Piping Hydrogen Tanks Compressorw NC	Leq,D	115.2	42	206.87	-57.3	3.9	-8.4	-5.3	-0.59	0.0	0.1	0.0	0.0	47.4	
Pre-Treat Train-Pre-Treat Outside Area E	Leq,D	107.5	566	507.46	-65.1	4.6	-22.6	-1.8	-0.74	0.0	3.5	0.0	0.0	28.3	
Pre-Treat Train-Pre-Treat Outside Area N	Leq,D	108.1	652	481.76	-64.6	4.5	-6.4	-1.7	-0.73	0.0	0.1	0.0	0.0	42.2	
Pre-Treat Train-Pre-Treat Outside Area N2	Leq,D	101.1	128	455.19	-64.2	4.4	-6.4	-1.6	-0.73	0.0	0.1	0.0	0.0	35.7	
Pre-Treat Train-Pre-Treat Outside Area S	Leq,D	108.1	652	486.26	-64.7	4.5	-16.4	-1.5	-0.75	0.0	4.7	0.0	0.0	36.9	
Pre-Treat Train-Pre-Treat Outside Area S2	Leq,D	101.0	126	457.08	-64.2	4.4	-12.5	-1.4	-0.75	0.0	3.7	0.0	0.0	33.2	
Pre-Treat Train-Pre-Treat Outside Area W1	Leq,D	100.7	118	459.42	-64.2	4.4	-9.3	-1.7	-0.73	0.0	0.5	0.0	0.0	32.6	
Pre-Treat Train-Pre-Treat Outside Area W2	Leq,D	103.7	235	451.62	-64.1	4.4	-5.9	-1.6	-0.73	0.0	0.7	0.0	0.0	39.4	
Pre-Treat Train-Pre-Treat Outside Area W3	Leq,D	103.1	206	462.64	-64.3	4.4	-9.1	-1.7	-0.74	0.0	0.7	0.0	0.0	35.4	
Pre-Treat Train-Roof 01	Leq,D	113.1	2037	481.73	-64.6	3.1	-11.6	-1.5	-0.75	0.0	2.0	0.0	0.0	39.6	
PSA Pipe 3" Lagging	Leq,D	80.6	11	223.64	-58.0	3.0	-0.2	-2.1	-0.65	0.0	0.4	0.0	0.0	23.0	
PSA Skid Additional Piping w NC	Leq,D	116.6	57	200.97	-57.1	3.8	-8.7	-1.7	-0.72	0.0	0.1	0.0	0.0	52.3	
Reformer-Burner Reformer East	Leq,D	97.3	269	261.33	-59.3	3.0	-12.1	-1.0	-0.33	0.0	0.1	0.0	0.0	30.6	
Reformer-Burner Reformer North	Leq,D	95.9	192	251.48	-59.0	3.1	-4.0	-1.7	-0.59	0.0	0.8	0.0	0.0	34.5	
Reformer-Burner Reformer South	Leq,D	95.8	191	270.60	-59.6	3.1	-21.6	-1.3	-0.33	0.0	2.6	0.0	0.0	21.6	
Reformer-Burner Reformer West	Leq,D	97.3	268	260.33	-59.3	3.2	-5.0	-1.3	-0.73	0.0	1.0	0.0	0.0	38.1	
RFG A from battery to process	Leq,D	99.4	87	239.52	-58.6	3.3	-11.3	-5.0	-0.58	0.0	2.2	0.0	0.0	29.4	
RFG A from battery to process w NC	Leq,D	115.2	42	207.15	-57.3	3.9	-10.2	-5.8	-0.66	0.0	0.5	0.0	0.0	45.6	
Stack Noise	Leq,D	108.4		300.69	-60.6	3.0	-9.0	-0.4		-4.9	0.4	0.0	0.0	37.1	
Steam Turbine-Facade 01	Leq,D	99.6	29	197.56	-56.9	4.5	-21.4	-2.3	-0.68	0.0	3.3	0.0	0.0	26.1	
Steam Turbine-Facade 02	Leq,D	96.2	13	201.65	-57.1	4.6	-21.2	-2.4	-0.68	0.0	0.7	0.0	0.0	20.2	
Steam Turbine-Facade 03	Leq,D	99.6	29	197.57	-56.9	4.5	-16.5	-2.0	-0.70	0.0	4.3	0.0	0.0	32.3	
Steam Turbine-Facade 04	Leq,D	96.2	13	193.63	-56.7	4.5	-16.7	-1.8	-0.70	0.0	2.6	0.0	0.0	27.4	
Steam Turbine-Roof 01	Leq,D	99.7	30	197.63	-56.9	3.7	-20.4	-1.7	-0.69	0.0	5.5	0.0	0.0	29.2	
Tank Farm Pump 1	Leq,D	99.0	3	400.48	-63.0	5.5	-11.6	-1.7	-0.71	0.0	3.0	0.0	0.0	30.4	
Tank Farm Pump 2	Leq,D	99.0	3	421.95	-63.5	5.5	-11.2	-1.8	-0.72	0.0	2.6	0.0	0.0	29.9	
Tank Farm Pump 3	Leq,D	99.0	3	427.95	-63.6	5.5	-11.2	-1.9	-0.72	0.0	3.1	0.0	0.0	30.2	
UP Train Locomotive Delivery and Pickup 2022 2x	Leq,D	112.4	1388	47.39	-44.5	3.0	0.0	-0.7		0.0	0.8	-11.8	0.0	59.2	
XF-1502 Splitter Area 1	Leq,D	104.5		136.68	-53.7	3.0	0.0	-1.0	-0.37	-4.2	0.1	0.0	0.0	48.4	
XF-1502 Splitter Area 2	Leq,D	104.5		136.08	-53.7	3.0	0.0	-1.0	-0.37	-4.3	0.2	0.0	0.0	48.3	
XF-1504 Splitter Area 1	Leq,D	104.5		141.01	-54.0	3.0	0.0	-1.1	-0.46	-4.2	0.0	0.0	0.0	47.9	
XF-1504 Splitter Area 2	Leq,D	104.5		140.44	-53.9	3.0	0.0	-1.1	-0.46	-4.3	0.2	0.0	0.0	47.9	
XF 251, 250, 271, 270	Leq,D	101.1	128	317.22	-61.0	3.4	-1.0	-1.0	-0.84	-2.7	0.1	0.0	0.0	38.0	
XF 260, 261A, 261 B	Leq,D	99.9	97	268.76	-59.6	3.0	-2.6	-0.8	-0.70	-2.5	0.2	0.0	0.0	36.8	
XF 304, XF 321	Leq,D	110.5	56	86.30	-49.7	3.0	-7.8	-0.2	-0.37	-1.9	0.5	0.0	0.0	54.0	
XF 313, XF 314	Leq,D	113.0	18	107.31	-51.6	3.0	-12.9	-0.3	-0.31	-2.8	1.1	0.0	0.0	49.2	
XF 335-1, XF 335-2	Leq,D	113.4	54	94.35	-50.5	3.0	-13.8	-0.2	-0.25	-1.9	1.0	0.0	0.0	50.8	
XF 353A/B	Leq,D	95.4	35	399.80	-63.0	3.9	-0.9	-1.2	-0.87	-2.6	0.0	0.0	0.0	30.8	
XF 353A/B	Leq,D	95.4	35	380.90	-62.6	3.8	-2.4	-1.0	-0.83	-2.6	0.0	0.0	0.0	29.8	
XF 354A/B	Leq,D	95.4	35	381.97	-62.6	3.8	-2.6	-1.0	-0.54	-2.4	0.2	0.0	0.0	30.3	
XF 503	Leq,D	113.0	21	86.62	-49.7	3.0	-6.4	-0.7	-0.30	-3.4	0.4	0.0	0.0	55.9	
XF - 1601	Leq,D	96.6		154.53	-54.8	3.0	-3.5	-0.4		-2.0	0.0	0.0	0.0	38.9	
XF - 1602	Leq,D	96.6		160.42	-55.1	3.0	0.0	-0.6	-0.44	-2.5	0.0	0.0	0.0	41.0	
XF Module 1510	Leq,D	108.3		129.76	-53.3	3.0	0.0	-1.0	-0.25	-4.3	0.1	0.0	0.0	52.6	
XF Module 1519	Leq,D	109.0		130.52	-53.3	3.0	0.0	-1.0	-0.25	-4.2	0.1	0.0	0.0	53.4	
xxxx xxxx xxxx xxxx	Leq,D		228								8.5			19.4	
xxxx xxxx xxxx xxxx	Leq,D		520								8.3			24.9	
xxxx xxxx xxxx xxxx	Leq,D		1341								2.8			36.6	
xxxx xxxx xxxx xxxx	Leq,D		450								9.7			22.1	

Train Noise Calculation Methodology
FTA, Transit Noise and Vib Assessment, 2006, Table 6-4
Average hourly noise calcualtion method
assumes arrives and departs (2x trips)

	Rail SPUR connection			
	Baseline Avg 1 trains/day Daytime Inputs	**Project Avg Avg 2 trains/day, with both daytime Inputs**	**Project Avg Avg 2 trains/day, with 1 train at nite Inputs**	**Project Avg Avg 2 trains/day, with 2 trains at nite Inputs**
SEL,L,, reference sound level, single locomotive	92	92	92	92
SEL, C, reference sound level rail cars	82	82	82	82
SEL, H, reference sound level horns	113	113	113	113
Ct, train throttle setting, =0 for T<6, 2*(T-5) for T>=6	0	0	0	0
Nlocos, number of locomotives in the train	4	4	4	4
Ncars, number of cars	25	25	25	25
K factor, -10 for pass diesel, 0 for DMU, +10 for electric	-10	-10	-10	-10
S, train speed, mph	10	10	10	10
track type, 5=jointed, 3=embedded track on grade, 4=aerial structure with slab track	3	3	3	3
Total length of each locomotive, ft	90	90	90	90
Total length of each rail car, ft	55	55	55	55
Total trains during day (7am-7pm)	2	4	2	0.0001
Total trains during eve (7pm-10pm)	0.0001	0.0001	0.0001	0.0001
Total trains during night (10pm-7am)	0.0001	0.0001	2	4
	Outputs	**Outputs**	**Outputs**	**Outputs**
V, volume of trains in number per hour, day	0.17	0.33	0.17	0.00
V, volume of trains in number per hour, eve	0.00	0.00	0.00	0.00
V, volume of trains in number per hour, night	0.00	0.00	0.22	0.44
LeqL(h), locomotives, day	61.6	64.6	61.6	18.6
LeqC(h), rail cars, day	41.6	44.6	41.6	-1.4
LeqH(h), warning horns, day	69.6	72.6	69.6	26.6
Leq, hourly, combined without horns	61.7	64.7	61.7	18.7
Leq, hourly, combined with horns	70.3	73.3	70.3	27.3
LeqL(h), locomotives, eve	24.6	24.6	24.6	24.6
LeqC(h), rail cars, eve	4.6	4.6	4.6	4.6
LeqH(h), warning horns, eve	32.6	32.6	32.6	32.6
Leq, hourly, combined without horns	24.7	24.7	24.7	24.7
Leq, hourly, combined with horns	33.3	33.3	33.3	33.3
LeqL(h), locomotives, night	19.9	19.9	62.9	65.9
LeqC(h), rail cars, night	-0.1	-0.1	42.9	45.9
LeqH(h), warning horns, night	27.9	27.9	70.9	73.9
Leq, hourly, combined without horns	19.9	19.9	62.9	65.9
Leq, hourly, combined with horns	28.5	28.5	71.5	74.5
CNEL, no horns, at 50 feet	58.7	61.7	69.1	71.7
CNEL, with horns, at 50 feet	67.3	70.3	77.7	80.3
Maximum Noise Level, Lmax, no horns				
Locomotives	77.3	77.3	77.3	77.3
Cars	72.3	72.3	72.3	72.3
Combine	77.3	77.3	77.3	77.3

Annual CNEL Average, at 50 feet (assumes one train per day)

Baseline, Trains per year	95	
CNEL, no horns, at distance feet	52.8	*energy average over 365 days*
CNEL, with horns, at distance feet	61.4	*energy average over 365 days*
Project, Trains per year	312	
CNEL, no horns, at distance feet	58.0	*energy average over 365 days*
CNEL, with horns, at distance feet	66.6	*energy average over 365 days*
Diff, CNEL, no horns, at distance feet	5.2	
Diff, CNEL, with horns, at distance feet	5.2	

Train Noise Calculation Methodology
FTA, Transit Noise and Vib Assessment, Table 6-4
Average hourly noise calcualtion method

MAINLINE	**Baseline, 15 t/d including refinery 1 train per day**	**Project, baseline + 1 tr at day**
	Inputs	**Inputs**
SEL,L,, reference sound level, single locomotive	92	92
SEL, C, reference sound level rail cars	82	82
SEL, H, reference sound level horns	113	113
Ct, train throttle setting, =0 for T<6, 2*(T-5) for T>=6	0	0
Nlocos, number of locomotives in the train	4	4
Ncars, number of cars	25	25
K factor, -10 for pass diesel, 0 for DMU, +10 for electric	-10	-10
S, train speed, mph	10	10
track type, 5=jointed, 3=embedded track on grade, 4=aerial structure with slab track	3	3
Total length of each locomotive, ft	90	90
Total length of each rail car, ft	55	55
Total trains during day (7am-7pm)	8	9
Total trains during eve (7pm-10pm)	2	2
Total trains during night (10pm-7am)	5	5
total	15	16
	Outputs	**Outputs**
V, volume of trains in number per hour, day	0.67	0.75
V, volume of trains in number per hour, eve	0.67	0.67
V, volume of trains in number per hour, night	0.56	0.56
LeqL(h), locomotives, day	67.6	68.2
LeqC(h), rail cars, day	47.6	48.2
LeqH(h), warning horns, day	75.6	76.2
Leq, hourly, combined without horns	67.7	68.2
Leq, hourly, combined with horns	76.3	76.8
LeqL(h), locomotives, eve	67.6	67.6
LeqC(h), rail cars, eve	47.6	47.6
LeqH(h), warning horns, eve	75.6	75.6
Leq, hourly, combined without horns	67.7	67.7
Leq, hourly, combined with horns	76.3	76.3
LeqL(h), locomotives, night	66.9	66.9
LeqC(h), rail cars, night	46.8	46.8
LeqH(h), warning horns, night	74.8	74.8
Leq, hourly, combined without horns	66.9	66.9
Leq, hourly, combined with horns	75.5	75.5
CNEL, no horns, at 50 feet	73.7	73.8
CNEL, with horns, at 50 feet	82.3	82.4

TRAFFIC NOISE LEVELS

Project Number: Paramount
Project Name: Paramount

Background Information

Model Description:	FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.		
Analysis Scenario(s):	X		
Source of Traffic Volumes:	X		
Community Noise Descriptor:	L_{dn}:	CNEL:	X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night	
Total ADT Volumes	75.00%	10.00%	15.00%	100%
Medium-Duty Trucks	75.00%	10.00%	15.00%	100%
Heavy-Duty Trucks	75.00%	10.00%	15.00%	100%

Traffic Noise Levels

Analysis Condition Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	Peak Hour dB(A) L_{eq}	24-Hour dB(A) CNEL
Analysis Condition													
Lakewood, Baseline	Residential	4	20	2,358	23,575	45	50	0	0	10.0%	2.0%	74.3	75.0
Lakewood, Project	Residential	4	20	2,403	24,655	45	50	0	0	10.0%	6.6%	75.7	76.7
											delta	1.43	1.74

[1] Distance is from the centerline of the roadway segment to the receptor location.

Peak hour Lakewood		
am	2395	
pm	2320	
ADT	23575	estimated based on peak hour 10% of ADT
Project Trucks, per day total trucks trips, peak	1080	
Peak hour truck trips	45	average over 24 hours

Calculated Pipeline Construction Noise Levels

point source calculation

based on FHWA 2006 Construction Noise Model and Air Quality Equipment List

	Reference values				Computed Values		
Equipment	**Ref Dist, ft**	**dB ref**	**Number**	**Acoustical Use Factor**	**Enter the Distance, ft**	**dB Calculated Single Equipment**	**Percent of Noise Energy**
10 K Reachlift	50	75	2	20	50	75.0	1%
65 hp sawcutting machine	50	90	2	20	50	90.0	29%
Cat 335 Excavator	50	81	1	40	50	81.0	4%
Cat D5 Sideboom	50	82	2	40	50	82.0	9%
120 ton crane	50	81	1	16	50	81.0	1%
Cat 446 Backhoe	50	78	3	40	50	78.0	6%
185 CFM air compressor	50	78	2	40	50	78.0	4%
1200 CFM air compressors	50	78	2	40	50	78.0	4%
Mobile Light Towers	50	73	12	50	50	73.0	9%
75 K Generator	50	81	1	50	50	81.0	5%
Lincoln 250 welding machine	50	74	4	40	50	74.0	3%
120 ton boring rig	50	83	1	50	50	83.0	7%
Cat AP 555F Paving Machine	50	77	1	50	50	77.0	2%
cat PM 312 Cold Planer/grinder	50	90	1	20	50	90.0	15%
Cat CB 1.8 Asphalt roller	50	80	1	20	50	80.0	1%
Cat DDS7 Asphalt roller	50	80	1	20	50	80.0	1%
Logarithmic Sum						**91.4**	