

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Danco SD Project
Lake County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	20.00	Dwelling Unit	6.49	36,000.00	57

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	67
Climate Zone	1			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase -
- Off-road Equipment -
- Grading -
- Demolition -
- Stationary Sources - User Defined -
- Land Use Change -
- Sequestration -

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	LoadFactor	0.42	0.42

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	LoadFactor	0.30	0.30
tblOffRoadEquipment	LoadFactor	0.30	0.30
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Surfacing Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Surfacing Equipment
tblSequestration	NumberOfNewTrees	0.00	200.00

2.0 Emissions Summary

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.8291	35.0765	36.0156	0.0794	19.8049	1.5768	21.0720	10.1417	1.4814	11.3074	0.0000	7,653.5200	7,653.5200	1.8990	8.7800e-003	7,703.5902
2024	56.5024	13.5847	16.4695	0.0279	0.1232	0.6144	0.6854	0.0327	0.5779	0.5971	0.0000	2,654.9830	2,654.9830	0.7188	8.5100e-003	2,672.6908
Maximum	56.5024	35.0765	36.0156	0.0794	19.8049	1.5768	21.0720	10.1417	1.4814	11.3074	0.0000	7,653.5200	7,653.5200	1.8990	8.7800e-003	7,703.5902

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.8291	35.0765	36.0156	0.0794	19.8049	1.5768	21.0720	10.1417	1.4814	11.3074	0.0000	7,653.5200	7,653.5200	1.8990	8.7800e-003	7,703.5902
2024	56.5024	13.5847	16.4695	0.0279	0.1232	0.6144	0.6854	0.0327	0.5779	0.5971	0.0000	2,654.9830	2,654.9830	0.7188	8.5100e-003	2,672.6908
Maximum	56.5024	35.0765	36.0156	0.0794	19.8049	1.5768	21.0720	10.1417	1.4814	11.3074	0.0000	7,653.5200	7,653.5200	1.8990	8.7800e-003	7,703.5902

Danco SD Project - Lake County, Summer

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	31.7364	0.6167	39.4306	0.0685		5.3066	5.3066		5.3066	5.3066	555.4346	235.9122	791.3468	0.5154	0.0437	817.2517
Energy	6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611
Mobile	1.0278	1.1352	7.3645	0.0121	1.1538	0.0132	1.1670	0.3080	0.0124	0.3204		1,226.9725	1,226.9725	0.0895	0.0649	1,248.5485
Total	32.7708	1.8081	46.8190	0.0810	1.1538	5.3243	6.4781	0.3080	5.3235	5.6315	555.4346	1,534.6195	2,090.0541	0.6063	0.1099	2,137.9613

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	31.7364	0.6167	39.4306	0.0685		5.3066	5.3066		5.3066	5.3066	555.4346	235.9122	791.3468	0.5154	0.0437	817.2517
Energy	6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611
Mobile	1.0278	1.1352	7.3645	0.0121	1.1538	0.0132	1.1670	0.3080	0.0124	0.3204		1,226.9725	1,226.9725	0.0895	0.0649	1,248.5485
Total	32.7708	1.8081	46.8190	0.0810	1.1538	5.3243	6.4781	0.3080	5.3235	5.6315	555.4346	1,534.6195	2,090.0541	0.6063	0.1099	2,137.9613

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/24/2023	6/20/2023	5	20	
2	Site Preparation	Site Preparation	6/21/2023	7/4/2023	5	10	
3	Grading	Grading	7/5/2023	8/1/2023	5	20	
4	Building Construction	Building Construction	8/2/2023	6/18/2024	5	230	
5	Paving	Paving	6/19/2024	7/16/2024	5	20	
6	Architectural Coating	Architectural Coating	7/17/2024	8/13/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 72,900; Residential Outdoor: 24,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Generator Sets	2	8.00	84	0.74
Demolition	Pavers	1	8.00	130	0.42
Demolition	Surfacing Equipment	1	8.00	263	0.30
Demolition	Surfacing Equipment	2	8.00	263	0.30

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	12	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	7.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Danco SD Project - Lake County, Summer

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3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6223	34.9685	34.7143	0.0770		1.5750	1.5750		1.4798	1.4798		7,416.7634	7,416.7634	1.8881		7,463.9650
Total	3.6223	34.9685	34.7143	0.0770		1.5750	1.5750		1.4798	1.4798		7,416.7634	7,416.7634	1.8881		7,463.9650

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2068	0.1080	1.3013	2.3400e-003	0.2464	1.7600e-003	0.2482	0.0654	1.6200e-003	0.0670		236.7566	236.7566	0.0109	8.7100e-003	239.6252
Total	0.2068	0.1080	1.3013	2.3400e-003	0.2464	1.7600e-003	0.2482	0.0654	1.6200e-003	0.0670		236.7566	236.7566	0.0109	8.7100e-003	239.6252

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3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6223	34.9685	34.7143	0.0770		1.5750	1.5750		1.4798	1.4798	0.0000	7,416.7634	7,416.7634	1.8881		7,463.9650
Total	3.6223	34.9685	34.7143	0.0770		1.5750	1.5750		1.4798	1.4798	0.0000	7,416.7634	7,416.7634	1.8881		7,463.9650

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2068	0.1080	1.3013	2.3400e-003	0.2464	1.7600e-003	0.2482	0.0654	1.6200e-003	0.0670		236.7566	236.7566	0.0109	8.7100e-003	239.6252
Total	0.2068	0.1080	1.3013	2.3400e-003	0.2464	1.7600e-003	0.2482	0.0654	1.6200e-003	0.0670		236.7566	236.7566	0.0109	8.7100e-003	239.6252

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1241	0.0648	0.7808	1.4100e-003	0.1479	1.0600e-003	0.1489	0.0392	9.7000e-004	0.0402		142.0540	142.0540	6.5500e-003	5.2300e-003	143.7751
Total	0.1241	0.0648	0.7808	1.4100e-003	0.1479	1.0600e-003	0.1489	0.0392	9.7000e-004	0.0402		142.0540	142.0540	6.5500e-003	5.2300e-003	143.7751

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1241	0.0648	0.7808	1.4100e-003	0.1479	1.0600e-003	0.1489	0.0392	9.7000e-004	0.0402		142.0540	142.0540	6.5500e-003	5.2300e-003	143.7751
Total	0.1241	0.0648	0.7808	1.4100e-003	0.1479	1.0600e-003	0.1489	0.0392	9.7000e-004	0.0402		142.0540	142.0540	6.5500e-003	5.2300e-003	143.7751

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377		2,872.6910	2,872.6910	0.9291		2,895.9182

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1034	0.0540	0.6507	1.1700e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		118.3783	118.3783	5.4600e-003	4.3600e-003	119.8126
Total	0.1034	0.0540	0.6507	1.1700e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		118.3783	118.3783	5.4600e-003	4.3600e-003	119.8126

Danco SD Project - Lake County, Summer

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3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1034	0.0540	0.6507	1.1700e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		118.3783	118.3783	5.4600e-003	4.3600e-003	119.8126
Total	0.1034	0.0540	0.6507	1.1700e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		118.3783	118.3783	5.4600e-003	4.3600e-003	119.8126

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0600e-003	0.1219	0.0312	4.4000e-004	0.0135	7.4000e-004	0.0143	3.8900e-003	7.1000e-004	4.6000e-003		46.2904	46.2904	1.9000e-004	6.7500e-003	48.3059
Worker	0.0483	0.0252	0.3037	5.5000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.8000e-004	0.0156		55.2432	55.2432	2.5500e-003	2.0300e-003	55.9126
Total	0.0523	0.1471	0.3348	9.9000e-004	0.0710	1.1500e-003	0.0722	0.0191	1.0900e-003	0.0202		101.5336	101.5336	2.7400e-003	8.7800e-003	104.2184

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0600e-003	0.1219	0.0312	4.4000e-004	0.0135	7.4000e-004	0.0143	3.8900e-003	7.1000e-004	4.6000e-003		46.2904	46.2904	1.9000e-004	6.7500e-003	48.3059
Worker	0.0483	0.0252	0.3037	5.5000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.8000e-004	0.0156		55.2432	55.2432	2.5500e-003	2.0300e-003	55.9126
Total	0.0523	0.1471	0.3348	9.9000e-004	0.0710	1.1500e-003	0.0722	0.0191	1.0900e-003	0.0202		101.5336	101.5336	2.7400e-003	8.7800e-003	104.2184

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7200e-003	0.1188	0.0294	4.3000e-004	0.0135	7.1000e-004	0.0142	3.8900e-003	6.8000e-004	4.5700e-003		45.7574	45.7574	1.8000e-004	6.6600e-003	47.7470
Worker	0.0448	0.0222	0.2733	5.3000e-004	0.0575	3.8000e-004	0.0579	0.0153	3.5000e-004	0.0156		53.5267	53.5267	2.2700e-003	1.8500e-003	54.1362
Total	0.0486	0.1410	0.3027	9.6000e-004	0.0710	1.0900e-003	0.0721	0.0191	1.0300e-003	0.0202		99.2841	99.2841	2.4500e-003	8.5100e-003	101.8832

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7200e-003	0.1188	0.0294	4.3000e-004	0.0135	7.1000e-004	0.0142	3.8900e-003	6.8000e-004	4.5700e-003		45.7574	45.7574	1.8000e-004	6.6600e-003	47.7470
Worker	0.0448	0.0222	0.2733	5.3000e-004	0.0575	3.8000e-004	0.0579	0.0153	3.5000e-004	0.0156		53.5267	53.5267	2.2700e-003	1.8500e-003	54.1362
Total	0.0486	0.1410	0.3027	9.6000e-004	0.0710	1.0900e-003	0.0721	0.0191	1.0300e-003	0.0202		99.2841	99.2841	2.4500e-003	8.5100e-003	101.8832

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0961	0.0475	0.5857	1.1300e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		114.7001	114.7001	4.8700e-003	3.9700e-003	116.0061
Total	0.0961	0.0475	0.5857	1.1300e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		114.7001	114.7001	4.8700e-003	3.9700e-003	116.0061

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0961	0.0475	0.5857	1.1300e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		114.7001	114.7001	4.8700e-003	3.9700e-003	116.0061
Total	0.0961	0.0475	0.5857	1.1300e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		114.7001	114.7001	4.8700e-003	3.9700e-003	116.0061

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.3153					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	56.4960	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-003	3.1700e-003	0.0390	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.6467	7.6467	3.2000e-004	2.6000e-004	7.7337
Total	6.4000e-003	3.1700e-003	0.0390	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.6467	7.6467	3.2000e-004	2.6000e-004	7.7337

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.3153					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	56.4960	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-003	3.1700e-003	0.0390	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.6467	7.6467	3.2000e-004	2.6000e-004	7.7337
Total	6.4000e-003	3.1700e-003	0.0390	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.6467	7.6467	3.2000e-004	2.6000e-004	7.7337

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0278	1.1352	7.3645	0.0121	1.1538	0.0132	1.1670	0.3080	0.0124	0.3204		1,226,972 5	1,226,972 5	0.0895	0.0649	1,248,548 5
Unmitigated	1.0278	1.1352	7.3645	0.0121	1.1538	0.0132	1.1670	0.3080	0.0124	0.3204		1,226,972 5	1,226,972 5	0.0895	0.0649	1,248,548 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	188.80	190.80	171.00	533,932	533,932
Total	188.80	190.80	171.00	533,932	533,932

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.472559	0.063262	0.192211	0.153100	0.049114	0.009195	0.008711	0.006391	0.000408	0.000000	0.037171	0.001203	0.006676

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611
NaturalGas Unmitigated	6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	609.746	6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611
Total		6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.609746	6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611
Total		6.5800e-003	0.0562	0.0239	3.6000e-004		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003		71.7348	71.7348	1.3700e-003	1.3200e-003	72.1611

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	31.7364	0.6167	39.4306	0.0685		5.3066	5.3066		5.3066	5.3066	555.4346	235.9122	791.3468	0.5154	0.0437	817.2517
Unmitigated	31.7364	0.6167	39.4306	0.0685		5.3066	5.3066		5.3066	5.3066	555.4346	235.9122	791.3468	0.5154	0.0437	817.2517

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	30.6079	0.5977	37.7821	0.0685		5.2974	5.2974		5.2974	5.2974	555.4346	232.9412	788.3758	0.5126	0.0437	814.2095
Landscaping	0.0495	0.0190	1.6485	9.0000e-005		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003		2.9711	2.9711	2.8500e-003		3.0422
Total	31.7364	0.6167	39.4306	0.0685		5.3066	5.3066		5.3066	5.3066	555.4346	235.9122	791.3468	0.5154	0.0437	817.2517

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3086					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	30.6079	0.5977	37.7821	0.0685		5.2974	5.2974		5.2974	5.2974	555.4346	232.9412	788.3758	0.5126	0.0437	814.2095
Landscaping	0.0495	0.0190	1.6485	9.0000e-005		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003		2.9711	2.9711	2.8500e-003		3.0422
Total	31.7364	0.6167	39.4306	0.0685		5.3066	5.3066		5.3066	5.3066	555.4346	235.9122	791.3468	0.5154	0.0437	817.2517

7.0 Water Detail

7.1 Mitigation Measures Water

Danco SD Project - Lake County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
