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Electronic Mail

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REF: Trip Generation and Vehicle Miles Traveled Analysis for the North Central Fire Protection District in Fresno County (APN: 025-200-17S)

Ms. Brauer:

This letter is in response to your request for a trip generation and vehicle miles traveled analysis, for the proposed Fire Training and Operation Center and Fire Station project located on a 60-acre project site (APN 025-200-17S), within the County of Fresno, CA. The project site is located approximately 0.5-miles east of the Kerman city limits on the southwest corner of West Kearney Boulevard and South Howard Avenue as shown on the site plan (Figure 1).

## **PROJECT TRIP GENERATION**

Upon researching the ITE land use codes, it did not produce a similar type of use as the proposed project. Therefore, based on information provided by the applicant and the site plan, the following assumptions were used to estimate the project trip generation for a typical day and for full operation of the project during training and emergency operations.

### ***Fire Station***

- Operates 24 hours a day, 7 days a week.
- Staffed with three employees, with the capacity to increase up to eight employees working 24 hour shifts.
- Occasional visitors, such as public school tours, which will be limited to a maximum of 40 civilians, 1-2 times per month, during normal business hours (8:00 AM to 6:00 PM).

For the trip generation, we conservatively estimate four employees per shift change occurring during the AM peak hour. No trips are expected during the PM peak hour due to 24-hour shifts. Visitors were excluded from the analysis as their trips are infrequent and not typical of the daily operations.

### ***Emergency Operations Center***

- Operates on an as needed basis, typically during a large disaster, or public event, where it is anticipated to operate up to four times per year.
- No daily operations: when activated, there may be up to 20 emergency response employees per day, with a typical staffing of between three to six employees.

We estimate up to 20 employees during 24-hour emergency operations, with a maximum of six employees during the AM and PM peak hour periods. However, we have excluded these trips from the analysis due to the limited potential impact, occurring up to four times per year.

### ***Training Center***

- Operates year-round, five days a week, during normal business hours between 8:00 AM and 5:00 PM. Evening use would occur approximately 10% of the time between 5:00 PM and 10:00 PM.
- Initially it will be staffed with two employees, with the capacity to expand to three employees during typical operations. During training, up to 40 employees daily during training hours from 6:00 AM to 6:00 PM.

We estimate up to three employees during daily operations, with a maximum of 40 employees during training sessions.

### ***Fleet and Support Services Maintenance***

- Operates year-round, five days a week, during normal business hours between 8:00 AM and 6:00 PM
- Staff includes one daily employee and two contract mechanics, up to a maximum of two employees and two contract mechanics, with one-two visitors per day, with a maximum of four per day.

We estimate up to eight employees/visitors during daily operations.

The tables below summarize the trips generated by the project using the above assumptions. Table 1: Daily Trip Generation – Typical shows the typical daily project trip generation, where there are no ongoing emergency operations and training sessions. Table 2: Daily Trip Generation – Fully Operational shows the estimated project trip generation when the facility is fully operational, where emergency operations and training sessions are occurring concurrently.

**Table 1**  
**Daily Trip Generation - Typical**

General Information	Variable # of Vehicles	Daily Trips		AM Peak Hour Trips		PM Peak Hour Trips	
		ADT Rate	ADT	Inbound Trips	Outbound Trips	Inbound Trips	Outbound Trips
Fire Station	4	2	8	4	4	0	0
Emergency Operations	0	2	0	0	0	0	0
Training Center	3	2	6	3	0	0	3
Fleet and Support	8	2	16	6	2	2	6
<b>Total Trips</b>			<b>30</b>	<b>13</b>	<b>6</b>	<b>2</b>	<b>9</b>

As shown in Table 1, the project will generate approximately 30 daily trips, with 11 trips during the PM peak hour and 18 trips during the AM peak hour of a typical weekday.

**Table 2**  
**Daily Trip Generation – Fully Operational**

General Information	Variable # of Vehicles	Daily Trips		AM Peak Hour Trips		PM Peak Hour Trips	
		ADT Rate	ADT	Inbound Trips	Outbound Trips	Inbound Trips	Outbound Trips
Fire Station	4	2	8	4	4	0	0
Emergency Operations	0	2	0	0	0	0	0
Training Center	40	2	80	40	0	0	40
Fleet and Support	8	2	16	6	2	2	6
<b>Total Trips</b>			<b>104</b>	<b>50</b>	<b>6</b>	<b>2</b>	<b>46</b>

As shown in Table 2, the project will generate approximately 104 daily trips, with 48 trips during the PM peak hour and 56 trips during the AM peak hour of a fully operational weekday.

Based on thresholds established by the Caltrans Guide for the Preparation of Traffic Impact Studies, a project must generate 50 or more trips in the peak hour to warrant the analysis of a roadway facility. As shown in the trip generation tables, the project is not anticipated to generate more than 18 trips in either the AM or PM peak hour during typical operations. Additionally, the project could generate up to 56 trips during the AM or PM peak hours when fully operational. With site access provided along West Kearney Boulevard and South Howard Avenue, it is anticipated that project

trips will primarily come from the surrounding area, where no intersection will experience more than 50 trips. Therefore, further analysis is not warranted.

**Vehicle Miles Traveled Analysis.**

An analysis of project VMT (vehicle miles traveled) was conducted following guidance provided in *Fresno County SB 743 Implementation Regional Guidelines*, Fresno Council of Governments, dated January 2021 (VMT Guidelines). The analysis involved comparing an estimate of VMT attributable to the project to the County threshold and assessing whether project VMT would result in a significant transportation impact under the California Environmental Quality Act (CEQA).

**Project Screening**

The advisory provides “screening thresholds” for identifying whether a land use project should be expected to result in a less than significant transportation impact under CEQA. Projects meeting one or more of these criteria would not be required to undergo a detailed VMT analysis. One such screening threshold pertains to the project generated daily traffic. According to the advisory, if the project generates fewer than 500 average daily trips, it is presumed to create a less than significant transportation impact.

According to Table 1 and Table 2, the project is anticipated to generate no more than 30 and 144 daily trips, respectively. Since the project generates fewer than 500 daily trips, it meets the screening criteria and is not required to undergo a detailed VMT analysis. Therefore, it is expected to result in less-than-significant transportation impacts, and no further analysis is required.

Please contact me should you have any questions.

Very truly yours,



Ian J. Parks  
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Figure 1  
 Site Plan

