

**Southern California Edison  
MESA PTC A.15-03-003**

**DATA REQUEST SET A1503003 ED-SCE-Deficiency Letter-01**

**To: ENERGY DIVISION  
Prepared by: Jason Pendleton  
Title: Substation Construction Project Manager  
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**Question TRA-01:**

Clarify the assumptions used to determine the total number of haul truck trips associated with the grading phase and the duration of soil hauling activities.

Additionally, PEA Section 4.16.4, "Impact Analysis," describes that an average of 235 truck trips are assumed to occur per day in addition to the 100 truck trips per day during the grading periods. However, the peak number for truck trips is not provided, and it is unclear how many trips are anticipated to occur during the AM and PM peak traffic periods. The section further assumes that 150 to 200 construction personnel would be working at the Mesa Substation site and adjacent rights-of-way on any given day. However, only 126 personal vehicle trips are assumed to occur per day to and from the Mesa Substation construction area during peak construction times.

**Response to Question TRA-01:**

**SCE Response:**

Haul trip requirements associated with the import/export of material during Phases 1 and 3 at Mesa Substation were based on the assumption that haul trucks would have a usable capacity of 10 CY each. As a result, approximately 10,000 trips would be required to bring the required 100,000 CY of fill on site during Phase 1; this is anticipated to occur between the second quarter of 2016 and the first quarter of 2017. An additional 5,000 trips would be required to export approximately 50,000 CY of material during Phase 3; this is anticipated to occur between the first quarter of 2019 and the second quarter of 2019. Though daily truck trip requirements during these periods vary, no more than 100 haul trips per day would be required for the import/export activities.

Table 1: Grading Quantities, Workforce, and Vehicle Trips by Construction Phase at Mesa Substation provides the maximum anticipated truck trip and personal vehicle trip requirements, by substation phase. It is expected that the import/export haul trips and other truck trips will typically be dispersed evenly throughout the workday. As a result, approximately 40 percent of these trips will fall during peak traffic periods. This estimate is based on the following

assumptions:

- The typical workday will begin at 7:00 a.m. and will conclude at 6:00 p.m.
- The morning peak traffic period begins at 7:00 a.m. and concludes at 9:00 a.m.
- The afternoon peak traffic period begins at 4:00 p.m. and concludes at 6:00 p.m.

Because construction personnel will arrive on site in the morning and depart in the evening, it is assumed that all of these trips will occur during peak traffic periods. In addition, Table 1: Grading Quantities, Workforce, and Vehicle Trips by Construction Phase at Mesa Substation also provides the peak worker commutes for each phase of substation construction.

In addition to the maximum trips per day associated with import and export activities, a maximum of an additional 672 trips are assumed to occur per day during Phase 1 of the Proposed Project. The PEA stated that 150 to 200 construction personnel would be working on the Proposed Project on any given day. Based on refinements to the grading phases, Table 1: Grading Quantities, Workforce, and Vehicle Trips by Construction Phase at Mesa Substation clarifies the maximum number of construction workers and associated personal vehicle trips for each phase of construction at Mesa Substation. Personal vehicle trips were calculated based on the number of personnel who would be on site. Phase 1 would result in the highest maximum number of personal vehicle trips to and from the Mesa Substation site. The maximum number of personal vehicle trips would range from 84 trips during Phase 2 to a maximum of 242 trips during Phase 1. The response to Question PD-01 provides the timeframes associated with each phase of construction.

**Table 1: Grading Quantities, Workforce, and Vehicle Trips by Construction Phase at Mesa Substation**

Phase	Fill Quantity (CY)	Cut Quantity (CY)	Import/Export Quantity (CY)	Source/Destination	Maximum Number of Construction Workers	Maximum Number of Trips per Day		
						Grading Trips	Other Truck Trips	Personal Vehicle Trips
1	250,000	150,000	100,000	Quarry within 45 miles of the site	242	100	430	242
2	5,000	70,000	(65,000)	Stockpile for Phase 3	84	--	125	84
3	325,000	375,000	(50,000)	Landfill within 45 miles of the site	155	100	196	155
<b>Total</b>	<b>580,000</b>	<b>595,000</b>	--	--	--	--	--	---

Notes: Export values in Phase 2 are included in the cut values in Phase 3. Phase 3 raw cut volume is 310,000 CY. "--" indicates "not applicable."



Mesa Grading Phases (04-23-15S).pdf



Updated Construction Equipment List (04-23-15S).docx