

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

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

**To: ENERGY DIVISION
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Title: Substation Construction Project Manager
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Question TRA-02:

Provide the peak number of haul truck trips to and from the construction site on a given day and the total number of trips that would occur during the AM and PM peak periods. Confirm whether all haul truck trips would originate at the same location and travel to the same location, or whether those haul trips would occur at various locations throughout the project area.

Response to Question TRA-02:

SCE Response:

Table 1: Grading Quantities, Workforce, and Vehicle Trips by Construction Phase at Mesa Substation shows the maximum daily haul trips for substation import/export, other truck trips, and personal trips associated with construction at Mesa Substation. Table 2: Maximum Proposed Project Trips per Day provides the maximum on-road vehicle travel associated with each Proposed Project component. Maximum daily trips for each vehicle type (e.g., haul trips, other truck trips, and personal vehicle trips) have also been provided.

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
Total	580,000	595,000	--	--	--	--	--	---

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."

Table 2: Maximum Proposed Project Trips per Day

Proposed Project Component	Grading Trips to/from Mesa Substation	Other Truck Trips	Personal Vehicle Trips	All Trip Types
Mesa Substation	100	430	242	772
Transmission/ Subtransmission	--	207	148	355
Distribution	--	6	0	6

Telecommunications	--	77	45	122
Total	100	720	435	1,255

Note: No personal vehicle trips have been included for Distribution work. It is assumed that construction personnel will drive other trucks to the site each day; therefore, these trips are accounted for under the “other truck trips” calculation. Additionally, the total personal vehicle trips, to and from the site, is an odd number due to rounding.

As described in the response to Question TRA-01, truck trips are anticipated to be spread equally over a 10-hour workday (820 truck trips total, approximately 82 truck trips an hour); therefore, approximately 20 percent of truck trips (164 truck trips total) are projected to occur during the morning peak hours (from 7 a.m. to 9 a.m.) and approximately 20 percent of truck trips (164 truck trips total) are projected to occur during the afternoon peak hours (from 4 p.m. to 6 p.m.). Personal vehicle trips for workers are anticipated to occur entirely during the morning and afternoon peak hours (approximately 218 trips per peak period). Table 3: Approximate Daily Proposed Project A.M. and P.M. Peak Period Trips shows the maximum morning and afternoon peak trips associated with all of the components of the Proposed Project.

Table 3: Approximate Daily Proposed Project A.M. and P.M. Peak Period Trips

Mesa Substation	227	227
Transmission/ Subtransmission	115	115
Distribution	1	1
Telecommunications	38	38
Total Peak Trips	381	381

As noted in Table 1: Grading Quantities, Workforce, and Vehicle Trips by Construction Phase at Mesa Substation, all import truck trips would originate from a quarry located within 45 miles of the Mesa Substation site. As described in the response to Question AIR-01, the availability of import soil changes regularly, so it is not possible to identify soil sources at this stage in the Proposed Project. Historically, these sources are identified by the proposed contractor(s) during the bidding stage of a project and after engineering is complete. This process will occur just prior to commencement of construction for each phase. It is assumed that trucks exporting materials would travel to a landfill within 45 miles of Mesa Substation, and both soil sources and landfills would be identified during the bidding phase of the Proposed Project. The remaining trips would be dispersed along the Proposed Project site.



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



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