

Southern California Edison
A.09-09-022 – ASP

DATA REQUEST SET CPUC - Supplemental Data Request - 021

To: CPUC
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Question DG-MISC-93-Follow-up_2:

MISC-93-Follow-up_1 provided updated values to the Third Amended PEA Table 4.15-14 to reflect the anticipated vehicle usage.

Provide a revised traffic study that evaluates the potential changes to the levels of service for intersections in the Proposed Project vicinity that incorporates the updated anticipated vehicle usage. If the revised traffic study affects the Air Quality Analysis and/or the Construction Equipment List, please resubmit the revised documents as well.

Response to Question DG-MISC-93-Follow-up_2:

A refined traffic study has been prepared to address the potential changes to the levels of service (LOS) that considers the refined vehicle usage during the construction phase of the Proposed Project. This refined traffic study was prepared using the following considerations:

- Although the Project Description and associated environmental analysis from the Final Environmental Impact Report (FEIR) addressed the planned underground telecommunications scope of work, further review of the construction equipment list showed that certain construction equipment for these activities was inadvertently not included. A refined construction equipment list has been prepared; Table A of this response presents the on-road vehicle traffic associated with the refined construction equipment list.
- To account for differing construction activities throughout the Alberhill System Project (Proposed Project) area, the applicable construction areas within the four defined traffic zones from the traffic study were refined. Table A indicates the planned construction activities that apply to each zone.
- Using the refined construction equipment list, the total number of vehicle trips were calculated for each construction activity. The construction worker category includes all worker commute and passenger vehicles, and the heavy vehicle category includes all delivery and heavy (HHDT) vehicles, consistent with the original traffic study. Table A presents the results of these calculations.
- Table 2 from Appendix P of the Third Amendment to the Proponent's Environmental Assessment (PEA) lists construction activities for each Proposed Project component that could occur simultaneously. Construction worker and heavy vehicle trips from construction activities that could occur simultaneously were then summed, as shown in Table B of this response. These values were

used to calculate the peak number of anticipated trips for each zone. Table B presents the results of these calculations.

- The original traffic study evaluated the potential cumulative impacts from the Valley-Ivyglen Project and Alberhill System Project being constructed simultaneously. Because the Valley-Ivyglen Project has since been constructed, this cumulative analysis is no longer required and has been omitted from the revised traffic study.

A version of Table 4.15-14 of the Third Amendment to the PEA that incorporates these refinements has been provided as attachments. Due to the differing construction activities within each zone, and to provide additional clarity, the trip values within Zone 2 – Staging Areas and Zone 3 – Staging Areas have been reported separately in this refined table. A redline/strikeout version of Table 4.15-14 depicting the changes between the Third Amendment to the PEA and the refined traffic study has also been provided in Attachment A below. The refined traffic study has been separately attached to this response as Attachment B.

As reported under Impact TT-2 (ASP) in Section 4.15.5.2 of the FEIR, the near-term traffic conditions plus project construction traffic conditions were evaluated for compliance with the Riverside County Congestion Management Program's minimum acceptable LOS at 14 key intersections. The FEIR determined the following two intersections would operate below the minimum acceptable LOS due to Proposed Project construction traffic:

- Lake Street/Interstate (I-)15 Northbound Ramps (during the AM peak hour)
- Menifee Road/Pinacate Road (State Route [SR] 74) (during the PM peak hour)

To reduce Impact TT-2 (ASP) to less than significant, the FEIR required the implementation of Mitigation Measure (MM) TT-2. This MM would require that heavy vehicle traffic be diverted from the Lake Street/I-15 Northbound Ramps intersection during the AM peak hour and from the Menifee Road/Pinacate Road (SR 74) intersection during the PM peak hour.

As shown in the refined traffic study, these same two intersections would continue to operate below the minimum acceptable LOS due to Proposed Project construction traffic; however, the Menifee Road/Pinacate Road (SR 74) intersection would also be impacted during the AM peak hour as follows:

- Lake Street/I-15 Northbound Ramps (during the AM peak hour)
- Menifee Road/Pinacate Road (SR 74) (during the AM and PM peak hours)

The refined traffic study evaluated suggested modifications to MM TT-2 to restrict construction traffic during both AM and PM peak hours at the Menifee Road/Pinacate Road (SR 74) intersection. With these suggested modifications to MM TT-2, impacts would be reduced to a less-than-significant level.

The refined equipment list was also used to refine the air quality and greenhouse gas (GHG) calculations presented in the Third Amendment to the PEA as follows:

- A version of Table 4.3-8 of the Third Amendment to the PEA showing the estimated peak daily emissions that result from the refined equipment list has been included below. As shown, peak daily emissions of volatile organic compounds, carbon monoxide, and nitrous oxides would increase by approximately 2.0 to 7.8 percent as a result of the refined equipment list; however, no new exceedances of any thresholds would occur.
- A version of Table 4.3-12 of the Third Amendment to the PEA summarizing the Localized Significance Threshold analysis with the refined equipment list has been included below. Because

the underground telecommunications work would occur adjacent to the proposed Alberhill Substation and 115 kilovolt (kV) construction activities and could occur at the same time, on-site daily emissions from these components were combined and compared to the applicable thresholds. As shown in this refined table, uncontrolled inhalable particulate matter (PM₁₀) emissions would continue to exceed the applicable thresholds; however, all controlled emissions would continue to be below applicable thresholds.

- A version of Table 4.7-6 of the Third Amendment to the PEA summarizing the anticipated GHG emissions that result from the refined equipment list has been included below. As shown, GHG emissions would increase by approximately 2.0 percent and would continue to be below all applicable thresholds.

Redline/strikeout versions of Table 4.3-8, Table 4.3-12, and Table 4.7-6 depicting the changes between the analysis in the Third Amendment to the PEA and the analysis incorporating the refined equipment list have also been provided in Attachment A below. A refined version of the air quality and GHG calculation sheets from Appendix P from the Third Amendment to the PEA has also been included as Attachment C which is separately attached. This version includes the refined equipment list along with the supporting air quality and GHG calculations. In this version, all refinements associated with underground telecommunications have been shaded yellow. The original orange and purple shading from the Third Amendment to the PEA depicting the changes from the FEIR have been retained.

Table A: Daily Trip Generation and Zone Assignments by Construction Phase

Phase	Construction Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation	Zone 1 – Staging Area	Zone 2 – Staging Area	Zone 3 – Staging Area
Substation Site Demolition	4	41	✓			
Substation Site Water Line Relocation	9	3	✓			
Substation Construction						
Survey	6	0	✓			
Grading	16	23	✓			
Fencing	10	4	✓			
Civil	15	20	✓			
Control Building	6	3	✓			
Electrical	15	6	✓			
Wiring	8	4	✓			
Transformers	10	5	✓			
Maintenance Crew Equipment Check	4	2	✓			
Testing	4	2	✓			
Asphalting	10	17	✓			
Landscaping	10	29	✓			
500 kV Transmission Line Construction						
Survey	6	0		✓		
Marshalling Yard	4	8		✓		
Roads and Landing Work	10	5		✓		
Install Helicopter Platforms	6	0		✓		
Tower Removal	8	5		✓		

Phase	Construction Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation	Zone 1 – Staging Area	Zone 2 – Staging Area	Zone 3 – Staging Area
Foundation Removal	4	2		✓		
Tower Foundations Installation	9	7		✓		
Install Micropile Foundations	6	0		✓		
Tower Steel Haul	4	3		✓		
Tower Steel Assembly	10	4		✓		
Tower Erection	12	5		✓		
Tower Erection (Helicopter) Ground Support	20	5		✓		
Tower Helicopter Operations	0	0		✓		
Wire Stringing	55	19		✓		
Restoration	7	4		✓		
115 kV Subtransmission Line Construction						
Survey	4	2		✓	✓	✓
Marshalling Yard	4	2		✓	✓	✓
Roads and Landing Work	5	3			✓	
Guard Structure Installation	6	4		✓	✓	✓
Remove Existing Wood H-Frames and Poles	6	3			✓	
Remove Existing Tubular Steel/Light Weight Steel Poles	8	4		✓	✓	✓
Install Tubular Steel Pole Foundations	7	6		✓	✓	✓
Steel Pole Haul	4	3		✓	✓	✓
Steel Pole Assembly	8	4		✓	✓	✓
Steel Pole Erection	8	4		✓	✓	✓
Wire Stringing	20	8		✓	✓	✓

Phase	Construction Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation	Zone 1 – Staging Area	Zone 2 – Staging Area	Zone 3 – Staging Area
Vault Installation	20	13				✓
Duct Bank Installation	20	12			✓	✓
Install Underground Cable	20	4			✓	✓
Guard Structure Removal	6	3	✓	✓	✓	✓
Restoration	7	4	✓	✓	✓	✓
Telecommunications Construction						
Tower Foundation	4	3	✓			
Tower Construction	4	2	✓			
Dish Installation	4	1	✓			
Control Building	2	1	✓			
Overhead Communications Installation	4	1	✓	✓	✓	✓
Substation Telecommunications Equipment Installation	2	2	✓			
Santiago Peak Communication Site ¹	4	4				
Underground Cable Installation	8	2	✓		✓	✓
Duct Bank Installation	20	11	✓		✓	✓
Manhole Installation	20	10	✓			✓
Additional Substation Construction						
Civil	7	7			✓	✓
Electrical	10	10			✓	✓
Wiring	10	8			✓	✓
Testing	4	2			✓	✓

¹ The Santiago Peak Communication Site is located approximately 7 miles west of the proposed Alberhill Substation site.

Phase	Construction Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation	Zone 1 – Staging Area	Zone 2 – Staging Area	Zone 3 – Staging Area
Civil - Demo	7	5			✓	✓

Table B: Daily Trip Generation by Zone Assignment and Overlapping Construction Phases

Proposed Project Component/Activity	Const. Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation		Zone 1 – Staging Area		Zone 2 – Staging Area		Zone 3 – Staging Area	
			Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle
Substation Construction										
Survey	6	0	6	0	0	0	0	0	0	0
Grading	16	23	16	23	0	0	0	0	0	0
Fencing, Control Building, Electrical, Wiring, Transformers, Maintenance Crew Equipment Check, Testing, Asphaltting	67	43	67	43	0	0	0	0	0	0
Civil	15	20	15	20	0	0	0	0	0	0
Landscaping	10	29	10	29	0	0	0	0	0	0
Maximum	67	43	67	43	0	0	0	0	0	0
500 kV Transmission Line Construction										
Survey	6	0	0	0	6	0	0	0	0	0
Marshalling Yard, Road and Landing Work, Install Helicopter Platforms	20	13	0	0	20	13	0	0	0	0
Marshalling Yard, Tower Removal, Tower Foundations Installation, Install Micropile Foundations, Tower Steel Haul, Tower Steel Assembly, Tower Erection, Tower Erection (Helicopter) Ground Support, Tower Helicopter Operations	73	37	0	0	73	37	0	0	0	0
Marshalling Yard, Foundation Removal	8	10	0	0	8	10	0	0	0	0
Marshalling Yard, Wire Stringing	59	27	0	0	59	27	0	0	0	0
Restoration	7	4	0	0	7	4	0	0	0	0
Maximum	73	37	0	0	73	37	0	0	0	0

Proposed Project Component/Activity	Const. Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation		Zone 1 – Staging Area		Zone 2 – Staging Area		Zone 3 – Staging Area	
			Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle
115 kV Subtransmission Line Construction										
Survey	4	2	0	0	4	2	4	2	4	2
Marshalling Yard, Roads and Landing Work, Guard Structure Installation, Remove Existing Wood H-Frames and Poles, Remove Existing Tubular Steel/Light Weight Steel Poles, Install Tubular Steel Pole Foundations, Steel Pole Haul, Steel Pole Assembly, Steel Pole Erection, Wire Stringing, Guard Structure Removal, Vault Installation, Duct Bank Installation, Install Underground Cable	142	73	6	3	71	38	122	60	131	67
Restoration	7	4	7	4	7	4	7	4	7	4
Maximum	142	73	7	4	71	38	122	60	131	67
Telecommunications Construction										
Tower Foundation	4	3	4	3	0	0	0	0	0	0
Tower Construction	4	2	4	2	0	0	0	0	0	0
Dish Installation, Control Building, Overhead Communications Installation, Substation Telecommunications Equipment Installation, Manhole Installation, Duct Bank Installation, Underground Cable Installation	60	28	60	28	4	1	32	14	52	24
Santiago Peak Communication Site	4	4	0	0	0	0	0	0	0	0
Maximum	60	28	60	28	4	1	32	14	52	24

Proposed Project Component/Activity	Const. Worker Trips	Heavy Vehicle Trips	Zone 1 – Alberhill Substation		Zone 1 – Staging Area		Zone 2 – Staging Area		Zone 3 – Staging Area	
			Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle	Const. Worker	Heavy Vehicle
Additional Substation Construction										
Civil, Electrical, Wiring, Testing, Civil - Demo	38	32	0	0	0	0	38	32	38	32
Maximum	38	32	0	0	0	0	38	32	38	32
PEAK DAILY	380	213	134	75	148	76	192	106	221	123

The following tables are from the Third Amendment to the PEA

Table 4.15-14 Construction Trip Generation (Alberhill Project)

Project Component	Vehicles Per Day	PCE Factor	Passenger Car Equivalent		
			Daily One-Way Trips	AM Peak Hour	PM Peak Hour
Zone 1 Alberhill Substation					
Construction Worker Vehicle	134	1.0	268	0 ⁽¹⁾	134
Heavy Vehicles	75	2.5	375	75	75
<i>Subtotal</i>	209		643	75	209
Zone 1 Staging Area					
Construction Worker Vehicles	148	1.0	296	0 ⁽¹⁾	148
Heavy Vehicles	76	2.5	380	76	76
<i>Subtotal</i>	224		676	76	224
Zone 2 Staging Area					
Construction Worker Vehicles	192	1.0	384	0 ⁽¹⁾	192
Heavy Vehicles	106	2.5	530	106	106
<i>Subtotal</i>	298		914	106	298
Zone 3 Staging Area					
Construction Worker Vehicles	221	1.0	442	0 ⁽¹⁾	221
Heavy Vehicles	123	2.5	615	123	123
<i>Subtotal</i>	344		1,057	123	344
Zone 4 Quarry					
Construction Worker Vehicles	10	1.0	20	0 ⁽¹⁾	10
Heavy Vehicles	72	2.5	360	72	72
<i>Subtotal</i>	82		380	72	82

Note:

⁽¹⁾ Construction workers assumed to arrive before the AM peak hour (defined as 7:00 to 9:00 a.m.) and leave during the PM peak hour (defined as 4:00 to 6:00 p.m.).

Key:

PCE Passenger Car Equivalent

Table 4.3-8 Maximum Daily Criteria Air Pollutant Construction Emissions (Alberhill Project)⁽¹⁾

Item	Peak Daily Air Pollutant Emissions (lbs/day) ⁽²⁾					
	VOC	CO	NO _x	SO _x	PM ₁₀	PM _{2.5}
<i>Import Soil Option 1: 5.2-Acre Source Area (On-Site Borrow Site)</i>						
Uncontrolled Maximum Daily Project Emissions ⁽³⁾	96	401	806	33	911	112
Controlled Maximum Daily Project Emissions ⁽³⁾	96	401	806	33	443	64
Regional Thresholds	75	550	100	150	150	55
Import Soil Option 1 Exceeds Regional Thresholds (Yes/No)⁽⁴⁾	Yes	No	Yes	No	Yes	Yes
<i>Import Soil Option 2: Local Quarry</i>						
Uncontrolled Maximum Daily Project Emissions ⁽³⁾	93	387	802	33	911	107
Controlled Maximum Daily Project Emissions ⁽³⁾	93	387	802	33	433	59
Regional Thresholds	75	550	100	150	150	55
Import Soil Option 2 Exceeds Regional Thresholds (Yes/No)⁽⁴⁾	Yes	No	Yes	No	Yes	Yes

Notes:

- (1) Emissions estimates assumes the use of helicopters for 500-kV transmission line construction at three tower sites and conventional construction methods at nine tower sites. Emission values have been rounded for reporting purposes.
- (2) The emissions considered in this analysis include the emissions generated by demolition activities conducted by the applicant at the proposed Alberhill Substation site in September and December 2011 to comply with County of Riverside code enforcement.
- (3) Peak daily emissions estimates indicate the sum of emissions generated from the concurrent construction of the proposed substation, 500-kV transmission lines, 115-kV subtransmission lines, and telecommunications lines.
- (4) SCAQMD Regional Air Quality Significance Thresholds are also listed in Table 4.3-3.

Key:

- CO carbon monoxide
- kV kilovolt
- lbs pounds
- NO_x oxides of nitrogen
- PM₁₀ particulate matter with diameters less than or equal to 10 microns
- PM_{2.5} particulate matter with diameters less than or equal to 2.5 microns
- SCAQMD South Coast Air Quality Management District
- SO_x oxides of sulfur
- VOC volatile organic compound

Table 4.3-12 Localized Significance Threshold Analysis for Unmitigated Construction Activities

Construction Activities ⁽²⁾	Maximum Daily Onsite Emissions (lbs/day) ^(1, 8)			
	CO	NO _x	PM ₁₀	PM _{2.5}
<u>Agricultural Water Pipeline Relocation</u>				
SCAQMD Localized Significance Thresholds ⁽³⁾	8,628	562	148	68
Uncontrolled emissions	5	3	39	4
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
Controlled emissions	5	3	18	2
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>Alberhill Substation and Telecommunications (Import Soil Option 1)</u>				
SCAQMD Localized Significance Thresholds ⁽⁴⁾	11,795	765	177	85
Uncontrolled emissions	55	48	315	37
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	55	48	153	20
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>Alberhill Substation and Telecommunications (Import Soil Option 2)</u>				
SCAQMD Localized Significance Thresholds ⁽⁵⁾	11,795	765	177	85
Uncontrolled emissions	34	26	313	32
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	34	26	141	15
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>500-kV Transmission Lines</u>				
SCAQMD Localized Significance Thresholds ⁽⁶⁾	1,786	280	27	7
Uncontrolled emissions	32	29	31	3
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	32	29	14	2
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>115-kV Subtransmission and Underground Telecommunications</u>				
SCAQMD Localized Significance Thresholds ⁽⁷⁾	661	162	13	3
Uncontrolled emissions	30	28	23	2.5
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	30	28	11	1

Construction Activities ⁽²⁾	Maximum Daily Onsite Emissions (lbs/day) ^(1, 8)			
	CO	NO _x	PM ₁₀	PM _{2.5}
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No

Key:

CO = carbon monoxide, PM₁₀ = particulate matter with diameters less than or equal to 10 microns, PM_{2.5} = particulate matter with diameters less than or equal to 2.5 microns, NO_x = oxides of nitrogen, SCAQMD = South Coast Air Quality Management District, lbs = pounds

Notes:

- ¹ Only on-site emissions were considered for this analysis. Offsite delivery vehicle emissions were not included in these calculations.
- ² Demolition activities took place at the horse ranch in September and December 2011 per permits issued by the County of Riverside Transportation and Land Management Agency to comply with County code enforcement. The applicant has updated maximum daily emissions estimates based on the daily project journals provided by the contractor.
- ³ Based on a 5-acre emission source area with the closest receptors located 270 meters and 420 meters (885 feet and 1,400 feet) from the substation property line. Maximum on-site emissions include those that would be generated by the microwave tower foundation and construction. These activities would occur within the Alberhill Substation property line.
- ⁴ Based on a 1-acre emission source area with the closest receptors located 885 feet and 1,400 feet from the substation property line. Maximum on-site emissions include those that would be generated by the microwave tower foundation and construction. These activities would occur within the Alberhill Substation property line.
- ⁵ Based on a 5-acre emission source area with the closest receptors located 885 feet and 1,400 feet from the substation property line. Closest receptor for the Import Soil Option 1 is located 885 feet from the proposed onsite soil source area.
- ⁶ Based on a 1-acre emission source area with the closest receptor located 175 meters (570 feet) from the closest tower location (two residences located in proximity to towers VA2 and VA3).
- ⁷ Based on a 1-acre emission source area with the closest receptor located 25 meters (82 feet) from the construction area.
- ⁸ Due to the typically short duration that a helicopter would be located at a specific workspace, all helicopter emissions were off-site and not contribute to the emissions considered in the LST analysis.

Table 4.7-6 Estimated Greenhouse Gas Emissions from Construction of the Proposed Alberhill Project

Proposed Alberhill Project Component	Construction GHG Emissions (MTCO ₂ e)	
	Import Soil Option 1	Import Soil Option 2
Substation site demolition	283	283
Substation site water line relocation	12	12
Alberhill Substation	1,668	1,672
500-kV Transmission Lines	2,097	2,097
115-kV Subtransmission Lines	1,843	1,843
Telecommunications	216	216
Additional Substation Modifications	58	58
Total emissions	6,178	6,182
Amortized (30-year period)	206	206
CPUC-Applied SCAQMD Threshold	10,000	10,000
Exceeds Threshold (Yes/No)	No	No

Note: Total emissions may not sum due to rounding

Key:

CPUC = California Public Utilities Commission

GHG = greenhouse gas

kV = kilovolt

MTCO₂e = metric tons of carbon dioxide equivalent

SCAQMD = South Coast Air Quality Management District

Attachment A: Redline/Strikeout Tables from the Third Amendment to the PEA

Table 4.15-14 Construction Trip Generation (Alberhill Project) – Redline/Strikeout

Text in ~~red that has been struck~~ is text from the Third Amendment to the PEA that has been refined due to the explicit inclusion of construction equipment associated with the underground telecommunications construction; this text has been replaced by text in green underline. The changes in trip generation between the Third Amendment to the PEA and those associated with the refined equipment list have been shown in parentheses. The Zone 2 and 3 Staging Areas trip generation has been reported separately in this version of the table for added clarity. The Zone 3 Staging Area trip generation values have been compared to the Zone 2 and 3 Staging Areas values from the Third Amendment to the PEA.

Project Component	Vehicles Per Day	PCE Factor	Passenger Car Equivalent		
			Daily <u>One-Way</u> Trips	AM Peak Hour	PM Peak Hour
Zone 1 Alberhill Substation					
Construction Worker Vehicle	100 <u>134</u> (+34)	1.0	200 <u>268</u> (+68)	0 ⁽¹⁾	100 <u>134</u> (+34)
Heavy Vehicles	93 <u>75</u> (-18)	2.5	465 <u>375</u> (-90)	93 <u>75</u> (-18)	93 <u>75</u> (-18)
<i>Subtotal</i>	193 <u>209</u> (+16)		665 <u>643</u> (-22)	93 <u>75</u> (-18)	193 <u>209</u> (+16)
Zone 1 Staging Area					
Construction Worker Vehicles	100 <u>148</u> (+48)	1.0	200 <u>296</u> (+96)	0 ⁽¹⁾	100 <u>148</u> (+48)
Heavy Vehicles	40 <u>76</u> (+36)	2.5	200 <u>380</u> (+180)	40 <u>76</u> (+36)	40 <u>76</u> (+36)
<i>Subtotal</i>	140 <u>224</u> (+84)		400 <u>676</u> (+276)	40 <u>76</u> (+36)	140 <u>224</u> (+84)
Zone 2 and 3 Staging Areas					
Construction Worker Vehicles	45 <u>192</u> (+147)	1.0	90 <u>384</u> (+294)	0 ⁽¹⁾	45 <u>192</u> (+147)
Heavy Vehicles	40 <u>106</u> (+66)	2.5	200 <u>530</u> (+330)	40 <u>106</u> (+66)	40 <u>106</u> (+66)
<i>Subtotal</i>	85 <u>298</u> (+213)		290 <u>914</u> (+624)	40 <u>106</u> (+66)	85 <u>298</u> (+213)
<u>Zone 3 Staging Area</u>					
<u>Construction Worker Vehicles</u>	<u>221</u> (+176)	<u>1.0</u>	<u>442</u> (+352)	<u>0</u> ⁽¹⁾	<u>221</u> (+176)
<u>Heavy Vehicles</u>	<u>123</u> (+83)	<u>2.5</u>	<u>615</u> (+415)	<u>123</u> (+83)	<u>123</u> (+83)
<i>Subtotal</i>	<u>344</u> (+259)		<u>1,057</u> (+767)	<u>123</u> (+83)	<u>344</u> (+259)

Project Component	Vehicles Per Day	PCE Factor	Passenger Car Equivalent		
			Daily <u>One-Way</u> Trips	AM Peak Hour	PM Peak Hour
Zone 4 Quarry					
Construction Worker Vehicles	10	1.0	20	0 ⁽¹⁾	10
Heavy Vehicles	72	2.5	360	72	72
<i>Subtotal</i>	82		380	72	82

Note:

⁽¹⁾ Construction workers assumed to arrive before the AM peak hour (defined as 7:00 to 9:00 a.m.) and leave during the PM peak hour (defined as 4:00 to 6:00 p.m.).

Key:

PCE Passenger Car Equivalent

Table 4.3-8 Maximum Daily Criteria Air Pollutant Construction Emissions (Alberhill Project)⁽¹⁾ – Redline/Strikeout

Text in ~~red that has been struck~~ is text from the Third Amendment to the PEA that has been refined due to the explicit inclusion of construction equipment associated with the underground telecommunications construction; this text has been replaced by text in green underline. The changes in peak criteria air pollutant emissions between the Third Amendment to the PEA and those associated with the refined equipment list have been shown in parentheses.

Item	Peak Daily Air Pollutant Emissions (lbs/day) ⁽²⁾					
	VOC	CO	NO _x	SO _x	PM ₁₀	PM _{2.5}
<i>Import Soil Option 1: 5.2-Acre Source Area (On-Site Borrow Site)</i>						
Uncontrolled Maximum Daily Project Emissions ⁽³⁾	9296 <u>9296</u> (+4)	373401 <u>373401</u> (+28)	790806 <u>790806</u> (+16)	33	911	112
Controlled Maximum Daily Project Emissions ⁽³⁾	9296 <u>9296</u> (+4)	373401 <u>373401</u> (+28)	790806 <u>790806</u> (+16)	33	443	64
Regional Thresholds	75	550	100	150	150	55
Import Soil Option 1 Exceeds Regional Thresholds (Yes/No)⁽⁴⁾	Yes	No	Yes	No	Yes	Yes
<i>Import Soil Option 2: Local Quarry</i>						
Uncontrolled Maximum Daily Project Emissions ⁽³⁾	8993 <u>8993</u> (+4)	359387 <u>359387</u> (+28)	786802 <u>786802</u> (+16)	33	911	107
Controlled Maximum Daily Project Emissions ⁽³⁾	8993 <u>8993</u> (+4)	359387 <u>359387</u> (+28)	786802 <u>786802</u> (+16)	33	433	59
Regional Thresholds	75	550	100	150	150	55
Import Soil Option 2 Exceeds Regional Thresholds (Yes/No)⁽⁴⁾	Yes	No	Yes	No	Yes	Yes

Notes:

- (1) Emissions estimates assumes the use of helicopters for 500-kV transmission line construction at three tower sites and conventional construction methods at nine tower sites. Emission values have been rounded for reporting purposes.
- (2) The emissions considered in this analysis include the emissions generated by demolition activities conducted by the applicant at the proposed Alberhill Substation site in September and December 2011 to comply with County of Riverside code enforcement.
- (3) Peak daily emissions estimates indicate the sum of emissions generated from the concurrent construction of the proposed substation, 500-kV transmission lines, 115-kV subtransmission lines, and telecommunications lines.
- (4) SCAQMD Regional Air Quality Significance Thresholds are also listed in Table 4.3-3.

Key:

- CO carbon monoxide
- kV kilovolt
- lbs pounds
- NO_x oxides of nitrogen

PM₁₀ particulate matter with diameters less than or equal to 10 microns
PM_{2.5} particulate matter with diameters less than or equal to 2.5 microns
SCAQMD South Coast Air Quality Management District
SO_x oxides of sulfur
VOC volatile organic compound

Table 4.3-12 Localized Significance Threshold Analysis for Unmitigated Construction Activities – Redline/Strikeout

Text in ~~red that has been struck~~ is text from the Third Amendment to the PEA that has been refined due to the explicit inclusion of construction equipment associated with the underground telecommunications construction; this text has been replaced by text in green underline. The changes in Localized Significance Threshold emissions between the Third Amendment to the PEA and those associated with the refined equipment list have been shown in parentheses.

Construction Activities ⁽²⁾	Maximum Daily Onsite Emissions (lbs/day) ^(1, 8)			
	CO	NO _x	PM ₁₀	PM _{2.5}
<u>Agricultural Water Pipeline Relocation</u>				
SCAQMD Localized Significance Thresholds ⁽³⁾	8,628	562	148	68
Uncontrolled emissions	5	3	39	4
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
Controlled emissions	5	3	18	2
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>Alberhill Substation and Telecommunications (Import Soil Option 1)</u>				
SCAQMD Localized Significance Thresholds ⁽⁴⁾	11,795	765	177	85
Uncontrolled emissions	55	46 <u>48</u> (+2)	315	37
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	55	46 <u>48</u> (+2)	154 <u>153</u> (-1)	20
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>Alberhill Substation and Telecommunications (Import Soil Option 2)</u>				
SCAQMD Localized Significance Thresholds ⁽⁵⁾	11,795	765	177	85
Uncontrolled emissions	34	25 <u>26</u> (+1)	313	32
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	34	25 <u>26</u> (+1)	141	15
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No
<u>500-kV Transmission Lines</u>				
SCAQMD Localized Significance Thresholds ⁽⁶⁾	1,786	280	27	7
Uncontrolled emissions	32	29	31	3
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	32	29	14	2
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No

Construction Activities ⁽²⁾	Maximum Daily Onsite Emissions (lbs/day) ^(1, 8)			
	CO	NO _x	PM ₁₀	PM _{2.5}
<u><i>115-kV Subtransmission and Underground Telecommunications</i></u>				
SCAQMD Localized Significance Thresholds ⁽⁷⁾	661	162	13	3
Uncontrolled emissions	24 30 (+6)	22 28 (+6)	23	+ 2.5 (+1.5)
<i>Exceeds Thresholds (Yes/No)</i>	No	No	Yes	No
Controlled emissions	24 30 (+6)	22 28 (+6)	+ 11 (+1)	1
<i>Exceeds Thresholds (Yes/No)</i>	No	No	No	No

Key:

CO = carbon monoxide, PM₁₀ = particulate matter with diameters less than or equal to 10 microns, PM_{2.5} = particulate matter with diameters less than or equal to 2.5 microns, NO_x = oxides of nitrogen, SCAQMD = South Coast Air Quality Management District, lbs = pounds

Notes:

- ¹ Only on-site emissions were considered for this analysis. Offsite delivery vehicle emissions were not included in these calculations.
- ² Demolition activities took place at the horse ranch in September and December 2011 per permits issued by the County of Riverside Transportation and Land Management Agency to comply with County code enforcement. The applicant has updated maximum daily emissions estimates based on the daily project journals provided by the contractor.
- ³ Based on a 5-acre emission source area with the closest receptors located 270 meters and 420 meters (885 feet and 1,400 feet) from the substation property line. Maximum on-site emissions include those that would be generated by the microwave tower foundation and construction. These activities would occur within the Alberhill Substation property line.
- ⁴ Based on a 1-acre emission source area with the closest receptors located 885 feet and 1,400 feet from the substation property line. Maximum on-site emissions include those that would be generated by the microwave tower foundation and construction. These activities would occur within the Alberhill Substation property line.
- ⁵ Based on a 5-acre emission source area with the closest receptors located 885 feet and 1,400 feet from the substation property line. Closest receptor for the Import Soil Option 1 is located 885 feet from the proposed onsite soil source area.
- ⁶ Based on a 1-acre emission source area with the closest receptor located 175 meters (570 feet) from the closest tower location (two residences located in proximity to towers VA2 and VA3).
- ⁷ Based on a 1-acre emission source area with the closest receptor located 25 meters (82 feet) from the construction area.
- ⁸ Due to the typically short duration that a helicopter would be located at a specific workspace, all helicopter emissions were off-site and not contribute to the emissions considered in the LST analysis.

Table 4.7-6 Estimated Greenhouse Gas Emissions from Construction of the Proposed Alberhill Project – Redline/Strikeout

Text in ~~red that has been struck~~ is text from the Third Amendment to the PEA that has been refined due to the explicit inclusion of construction equipment associated with the underground telecommunications construction; this text has been replaced by text in green underline. The changes in GHG emissions between the Third Amendment to the PEA and those associated with the refined equipment list have been shown in parentheses.

Proposed Alberhill Project Component	Construction GHG Emissions (MTCO _{2e})	
	Import Soil Option 1	Import Soil Option 2
Substation site demolition	283	283
Substation site water line relocation	12	12
Alberhill Substation	1,668	1,672
500-kV Transmission Lines	2,097	2,097
115-kV Subtransmission Lines	1,843	1,843
Telecommunications	107 <u>216</u> (+109)	107 <u>216</u> (+109)
Additional Substation Modifications	58	58
Total emissions	6,069 <u>6,178</u> (+109)	6,073 <u>6,182</u> (+109)
Amortized (30-year period)	203 <u>206</u> (+3)	202 <u>206</u> (+4)
CPUC-Applied SCAQMD Threshold	10,000	10,000
Exceeds Threshold (Yes/No)	No	No

Note: Total emissions may not sum due to rounding

Key:

CPUC = California Public Utilities Commission

GHG = greenhouse gas

kV = kilovolt

MTCO_{2e} = metric tons of carbon dioxide equivalent

SCAQMD = South Coast Air Quality Management District

Southern California Edison
A.09-09-022 – ASP

DATA REQUEST SET CPUC - Supplemental Data Request - 021

To: CPUC
Prepared by: Rey Gonzales
Job Title: Sr. Environmental Project Manager
Received Date: 2/20/2024

Response Date: 3/29/2024

Question DG-MISC-93-Follow-up_2_Suppl_1:

SCE on March 7, 2024 provided the CPUC a response to CPUC data request Question DG-MISC-93-Follow-up_2 which is shown below:

MISC-93-Follow-up_1 provided updated values to the Third Amended PEA Table 4.15-14 to reflect the anticipated vehicle usage.

Provide a revised traffic study that evaluates the potential changes to the levels of service for intersections in the Proposed Project vicinity that incorporates the updated anticipated vehicle usage. If the revised traffic study affects the Air Quality Analysis and/or the Construction Equipment List, please resubmit the revised documents as well.

Subsequently, the CPUC on March 28, 2024 having reviewed SCE's response requested SCE to respond to the following:

We have two minor clarifications on DG-MISC-93-Follow-up_2 Attachment C (refined version of the air quality and GHG calculation sheets from Appendix P from the Third Amendment to the PEA):

- In the set of tables for Soil Import Option 1 Without Project Commitment J, for Table 2 the header says “Soil Import Option 1 With Project Commitment J”. We can’t readily tell if that is just a mislabeling of the table header or if the wrong table is there because we can’t track the links in the pdf. Please clarify.
- In the details table for the added construction emission calculations, the table header is not changed to reflect the correct soil import option and the “with” or “without” Project Commitment J. There are duplicate table numbers (Table 51b (Manhole Installation), 51c (Duct Bank Installation) and 51d (Underground Cable Installation), but there already were Tables 51b (Additional Substation Construction Emissions – Civil), 51c (Additional Substation Construction Emissions – Electrical) and 51d (Additional Substation Construction Emissions – Wiring) there. Please clarify the labeling and confirm if any links /calculations are affected.

Response to Question DG-MISC-93-Follow-up_2_Suppl_1:

SCE has resolved the formatting issue with the header and corrected the labeling issue on the tables within the attached Air Quality Analysis. These minor issues do not affect any of the calculations in

the document.

The revised changes are reflected in the attached file “CPUC-Supplemental Data Request-021_Response Attach C AQ Calcs v2_20240328.pdf”