Southern California Edison Presidential Substation Project A.08-12-023

DATA REQUEST SET Presidential ED-05

To: ENERGY DIVISION
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Question 05:

Alternatives

Provide construction duration and equipment use information for the scenarios described in the table below.

Construction Equipment Use - Undergrounding

Activity and Number of Personnel	Number of Work Days	Equipment and Quantity	Duration of Use (Hours/Day)	
Proposed Project Distribution (16 kV) Underground Along Portions of Subtransmission Route (Includes both East and West of Hwy 23). This information was provided in Data Response #4.				
<u>Civil</u>	<u>62</u>	2- Backhoes	<u>8</u>	
(13 people)		4- Dump Trucks	<u>8</u>	
		<u>1- Roller</u>	<u>8</u>	
		<u>1- Grinder</u>	<u>8</u>	
		1- Delivery Truck	<u>8</u>	
		(vault & pull box)	8	
		4- Cement Trucks		
Electrical	43	1- Rodder Truck	<u>8</u>	
(14 people)		1- Cable Dolly	8	
		2- Companion Vehicle	<u>2</u>	
		1- Splice Truck	<u>8</u>	
		1- Double Bucket		

		Truck 1- Troubleman Truck	<u>8</u> 8
<u>Electrical</u>	2	1-Line Truck	8
(3 people)		1-Companion Vehicle	2
<u>Proposed Project Distribution</u>	ation (16 kV) Underground	Along Portions of Subtransi	mission Route (Only East
<u>Civil</u>		2- Backhoes	
(13 people)		4- Dump Trucks	
		<u>1- Roller</u>	
		1- Grinder	
		1- Delivery Truck (vault & pull box)	
		4- Cement Trucks	
<u>Electrical</u>		1- Rodder Truck	
(14 people)		1- Cable Dolly	
		2- Companion Vehicle	
		1- Splice Truck	
		1- Double Bucket Truck	
		1- Troubleman Truck	
<u>Electrical</u>		1-Line Truck	
(3 people)		1-Companion Vehicle	
Alternative – Subtransmission Underground along Read Road from Sunset Valley Rd. to west of SR 23) – leaving the Distribution (16 kV) overhead. – Double Circuit.			

<u>Civil</u>			
<u>Electrical</u>			
<u>Electrical</u>			
leaving the Distribution (ssion Undergrounding along 16 kV) overhead. – Single c et Valley Rd to west of SR 2	ircuit from Moorpark Rd to	
<u>Civil</u>			
<u>Electrical</u>			
<u>Electrical</u>			
Alternative – Subtransmission, Distribution and telecommunications collocation Underground (both the 66 kV and 16 kV) along Read Road from Sunset Valley Road to west of SR 23 – no overhead Double Circuit.			
<u>Civil</u>			
<u>Electrical</u>			
<u>Electrical</u>			
Alternative – Subtransmission, Distribution and telecommunications collocation Underground (both the 66 kV and 16 kV) along Read Road from Moorpark Road to west of SR 23 – no overhead. Single circuit from Moorpark Rd to Sunset Valley Rd, Double circuit from Sunset Valley Rd to west of SR 23.			
<u>Civil</u>			
<u>Electrical</u>			
<u>Electrical</u>			

Response to Question 05:

Please see enclosed attachment.

Presidential Substation Project CPUC Data Request 5, Question 5

Construction workforce estimates for the distribution 16 kV scenarios presented in Question 5 are presented in the table below:

Activity and Number of Personnel	Number of Work Days	Equipment and Quantity	Duration of Use (Hours/Day)
Proposed Project Distribu	tion (16 kV) Underground	Along Portions ¹ of the Subt	ransmission Route
Civil	47*	2- Backhoes	8
(13 people)		4- Dump Trucks	8
		1- Roller	8
		1- Grinder	8
		1- Delivery Truck (vault	8
		& pull box)	8
		4- Cement Trucks	
Electrical	33*	1- Rodder Truck	8
(14 people)		1- Cable Dolly	8
		2- Companion Vehicle	2
		1- Splice Truck	8
		1- Double Bucket Truck	8
		1- Troubleman Truck	8
Electrical	2	1-Line Truck	8
(3 people)		1-Companion Vehicle	2
Distribution Underground	(16 kV) from State Route	23 to the Proposed Substation	on Site
Civil	20	2- Backhoes	8
(13 people)		4- Dump Trucks	8
		1- Roller	8
		1- Grinder	8
		1- Delivery Truck (vault & pull box)	8
		4- Cement Trucks	8
Electrical	20	1- Rodder Truck	8
(14 people)		1- Cable Dolly	8
		2- Companion Vehicle	2
		1- Splice Truck	8
		1- Double Bucket Truck	8
		1- Troubleman Truck	8

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¹ Portions include the intersection of Read Road and Moorpark Road, the intersection of Tierra Rejada and Sunset Valley Road, the intersection of Read Road and Sunset Valley Road to Highway 23, and east of Highway 23 to the Proposed Substation location.

^{*}Please note, this table reflects refinements to what SCE previously provided in Data Request 4 (Design Update).

Distribution Underground (16 kV) along Read Road from Sunset Valley Road to State Route 23				
Civil	12	2- Backhoes	8	
(13 people)		4- Dump Trucks	8	
		1- Roller	8	
		1- Grinder	8	
		1- Delivery Truck (vault	8	
		& pull box)		
		4- Cement Trucks	8	
Electrical	12	1- Rodder Truck	8	
(14 people)		1- Cable Dolly	8	
		2- Companion Vehicle	2	
		1- Splice Truck	8	
		1- Double Bucket Truck		
		1- Troubleman Truck	8	
			8	
Distribution Overhead (16	6 kV) along Read Road from	n Sunset Valley Road to Sta	te Route 23	
There would be no work a	associated with leaving dist	ribution overhead in this loc	ation.	
Distribution Underground	(16 kV) along Read Road	from Moorpark Road to Sta	te Route 23	
Civil	35	2- Backhoes	8	
(13 people)		4- Dump Trucks	8	
		1- Roller	8	
		1- Grinder	8	
		1- Delivery Truck (vault & pull box)	8	
		4- Cement Trucks	8	
Electrical	20	1- Rodder Truck	8	
(14 people)		1- Cable Dolly	8	
		2- Companion Vehicle	2	
		1- Splice Truck	8	
		1- Double Bucket Truck	8	
		1- Troubleman Truck	8	
Electrical	2	1-Line Truck	8	
(3 people)		1-Companion Vehicle	2	
Distribution Overhead (16 kV) along Read Road from Moorpark Road to State Route 23				
Electrical	2	1-Line Truck	8	
(3 people)		1-Companion Vehicle	2	

With regards to telecommunications, as explained in SCE's responses to CPUC Data Request 5, Questions 1-4, telecommunications would follow the route of distribution in all scenarios. Construction workforce estimates for telecommunications would be the same if the distribution facilities were located overhead or underground. Please note the workforce estimate provided below is the same as what was presented in the PEA for the Presidential Substation Project:

Activity and Number of	Number of Work Days	Equipment and Quantity	Duration of Use
Personnel			(Hours/Day)
Telecommunications Con	struction		
Fiber Optic Installation (4 People)	10	1- Pickup Truck 2-Heavy Duty Truck	8 8

Construction workforce estimates for the 66 kV subtransmission source line scenarios presented in Question 5 are presented in the table below:

Activity and Number of Personnel	Number of Work Days	Equipment and Quantity	Duration of Use (Hours)
66 kV Subtransmission Und Valley Road	derground Construction	along Read Road from	Moorpark Road to Sunset
Survey	1	2-1 Ton Truck, 4x4	8
(4 people)			
Vault Installation	18	2-1 Ton Crew Cab, 4x4	4
(6 people)		1-Backhoe/Front Loader	8
		1-Excavator	6
		1-Dump Truck	8
		1-Water Truck	8
		1-165 Ton Crane	6
		3-Concrete Mixer Truck	2
		1-Lowboy Truck/Trailer	4
		3-Flat Bed Truck/Trailer	4
Duct Bank Installation	17	2-1 Ton Crew Cab, 4x4	4
(6 people)		1-Backhoe/Front Loader	6
		2-Dump Truck	6
		1-Pipe Truck/Trailer	6
		1-Water Truck	8
		3-Concrete Mixer Truck	2
		1-Compressor Trailer	6
		1-Lowboy Truck/Trailer	4
66 kV Subtransmission Underground Construction along Read Road from Moorpark Road to			

State Route 23			
Survey	2	2-1 Ton Truck, 4x4	8
(4 people)			
Vault Installation	34	2-1 Ton Crew Cab, 4x4	4
(6 people)		1-Backhoe/Front Loader	8
		1-Excavator	6
		1-Dump Truck	8
		1-Water Truck	8
		1-165 Ton Crane	6
		3-Concrete Mixer Truck	2
		1-Lowboy Truck/Trailer	4
		3-Flat Bed Truck/Trailer	4
Duct Bank Installation	32	2-1 Ton Crew Cab, 4x4	4
(6 people)		1-Backhoe/Front Loader	6
		2-Dump Truck	6
		1-Pipe Truck/Trailer	6
		1-Water Truck	8
		3-Concrete Mixer Truck	2
		1-Compressor Trailer	6
		1-Lowboy Truck/Trailer	4
66 kV Subtransmission Un State Route 23	derground Constructio	n along Read Road from Sunse	et Valley Road to
Survey	1	2-1 Ton Truck, 4x4	8
(4 people)			
Vault Installation	18	2-1 Ton Crew Cab, 4x4	4
(6 people)		1-Backhoe/Front Loader	8
		1-Excavator	6
		1-Dump Truck	8
		1-Water Truck	8
		1-165 Ton Crane	6
		3-Concrete Mixer Truck	2
		1-Lowboy Truck/Trailer	4
		3-Flat Bed Truck/Trailer	4
Duct Bank Installation	17	2-1 Ton Crew Cab, 4x4	4
(6 people)		1-Backhoe/Front Loader	6
		2-Dump Truck	6
			l .

	1-Pipe Truck/Trailer	6
	1-Water Truck	8
	3-Concrete Mixer Truck	2
	1-Compressor Trailer	6
	1-Lowboy Truck/Trailer	4