

## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



September 29, 2017

Pat Adams, Principal Advisor  
Southern California Edison Company  
8651 Rush St., 2nd Floor  
Rosemead, CA 91770  
Email: Patricia.Adams@sce.com

**RE: Revised Data Request #9 - Certificate of Public Convenience and Necessity for the Riverside Transmission Reliability Project – Application No. A.15-04-013**

Dear Ms. Adams,

The California Public Utilities Commission's (CPUC) Energy Division CEQA Unit has completed its review of Southern California Edison's (SCE's) Application (A. 15-04-013) for a Certificate of Public Convenience and Necessity (CPCN) for the Riverside Transmission Reliability Project (RTRP) and SCE's responses to Data Requests #1 through #8.

The CPUC has identified additional data needs that are required to complete the project description and environmental resource assessment for the Subsequent Environmental Impact Report (EIR). These data needs are identified in the attached Request for Additional Data.

Information provided by SCE in response to this Request for Additional Data should be filed as supplements to Application A. 15-04-013. One set of responses should be sent to the Energy Division and one to our consultant, Panorama Environmental, in both hardcopy and electronic format. We request that SCE respond to this request no later than October 6, 2017. Please let us know if you cannot provide the information by this date. Delays in responding to these data needs will result in associated delays in preparation of the Subsequent EIR.

The Energy Division reserves the right to request additional information at any point in the application proceeding and during subsequent construction of the project should SCE's CPCN be approved.

Please direct questions related to this application to me at (415) 703-5484 or [Jensen.Uchida@cpuc.ca.gov](mailto:Jensen.Uchida@cpuc.ca.gov).

Sincerely,

A handwritten signature in blue ink that reads "Jensen Uchida".

Jensen Uchida  
Project Manager

Energy Division, CEQA Unit

cc: Mary Jo Borak, Supervisor  
Jack Mulligan, CPUC Attorney  
Jeff Thomas, Panorama Environmental, Inc.

# REQUEST FOR ADDITIONAL DATA: DATA NEEDS #9 FOR THE RIVERSIDE TRANSMISSION RELIABILITY PROJECT - APPLICATION (A. 15-04-013)

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## REPORT OVERVIEW

The California Public Utilities Commission (CPUC) has identified several areas where more information is needed to prepare a complete and adequate analysis of the proposed project in accordance with the requirements of the California Environmental Quality Act (CEQA), as follows:

Table 1: SCE Riverside Transmission Reliability Project Application 15-04-013 Data Needs #9 (revised)	
Number	Data Need
<b>Project Description</b>	
PD-1	<b>Verify the dimensions of project structures and work spaces included in Attachment A and Attachment B.</b>
PD-2	<p><b>Verify the size (length x width x depth) of each vault structure, dimensions of manholes (length x width), and number of individual manholes per vault for each of the vault types listed below:</b></p> <ul style="list-style-type: none"> <li>• Transmission Line Vault</li> <li>• Distribution Line Vault</li> <li>• Telecommunication Vault</li> </ul> <p>The information will be used to verify the permanent disturbance impact acreage that was provided in the Project Description (Data Request #3). Please clarify if the manhole dimensions or number would vary depending on site conditions (natural area or road).</p>
PD-3	<p><b>Clarify excavation dimensions for the telecommunications vaults and whether or not the dimensions are for a vault with attached manhole.</b></p> <p>The excavation dimensions for installation of the telecommunications manholes in the area of the underground 230-kV transmission line (8 feet long by 5 feet wide by 5 feet deep excavation) conflict with the dimensions provided for the telecommunications manholes in the area of the distribution lines (4-foot-long by 4-foot-wide by 6-foot-deep manhole structure). Please clarify the excavation dimensions and verify that the appropriate dimensions include the telecommunications vault with attached manhole (not just a manhole).</p>
PD-4	<p><b>Provide GIS data indicating approximate locations and boundaries of all 230-kV Conductor &amp; OPGW stringing set up areas, and telecommunication manholes.</b></p> <p>This data set is needed in order to more accurately assess potential impacts to tribal cultural resources.</p>

ATTACHMENT A

Table 1 Total Land Disturbance for Proposed Project with Revised Components Compared to 2013 RTRP EIR

Project Feature	Site Quantity		Work Area Disturbance Calculation (L x W in feet)		Permanent Disturbance Calculation (L x W in feet)		Work Area Disturbance (acres)		Temporary Disturbance (acres)		Permanent Disturbance (acres)	
	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed
<b>Overhead 230-kV Transmission Lines</b>												
Guard Structures	16	14	150 x 100	100 x 50	--	--	5.5	1.6	5.5	1.6	0	0
Construct New LST	16	12	200 x 200	200 x 200	84 x 84 <sup>1</sup>	84 x 84 <sup>1</sup>	14.7	11.0	11.5	8.6	3.2	2.4
Construct New TSP	59	47	200 x 100	200 x 100	35-ft diameter <sup>2</sup>	35-ft diameter <sup>2</sup>	27.1	21.6	23.5	18.8	3.5	2.8
Construct New Riser Pole	--	4	200 x 100	200 x 100	--	35-ft diameter <sup>3</sup>	--	3.7	--	3.4	--	0.3
Modify Existing LST	1	1	200 x 200	200 x 200	--	-- <sup>4</sup>	0.7	0.9	0.7	0.9	0	0
230-kV Conductor & optical ground wire (OPGW) Stringing Setup Area - Puller <sup>4</sup>	17	11	300 x 100	300 x 100	--	--	11.7	7.6	11.7	7.6	0	0
230-kV Conductor & OPGW Stringing Setup Area - Tensioner <sup>4</sup>	17	11	400 x 100	400 x 100	--	--	15.6	10.1	15.6	10.1	0	0
230-kV Conductor Field Splice Area <sup>5</sup>	2	2	50 x 50	50 x 50	--	--	0.1	0.1	0.1	0.1	0	0
New Roads (Downline, Access, and Spur)	7.5 miles	4.1 miles	Linear <u>feet</u> x 18 <sup>6</sup>	Linear <u>feet</u> x 18 <sup>6</sup>	Linear <u>feet</u> x 18 <sup>6</sup>	Linear <u>feet</u> x 18 <sup>6</sup>	16.4	8.9	0	0	16.4	8.9
<b>Underground 230-kV Transmission Lines</b>												
Vault Installation	--	32	--	150 x 100	--	8 x 5	--	11.0	--	11.0	--	0.03
Conduit Duct Bank Installation	--	22,000 feet	--	Linear <u>feet</u> x 30	--	--	--	15.2	--	15.2	--	0
<b>Distribution Lines</b>												
Distribution Pole Removal	23	27	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx
TSP Riser Pole or Distribution Pole Installation	14	11	xx	xx	xx	xx	xx	xx	xx	xx <sup>B</sup>	xx	xx <sup>B</sup>
Vault Installation	7	9	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx
Conduit Duct Bank Installation	4,000 feet	5,850 feet	Linear <u>feet</u> x 30 or 32	Linear <u>feet</u> x 30	xx	xx	2.7	4.5	xx	xx	0	0

**ATTACHMENT A**

Project Feature	Site Quantity		Work Area Disturbance Calculation (L x W in feet)		Permanent Disturbance Calculation (L x W in feet)		Work Area Disturbance (acres)		Temporary Disturbance (acres)		Permanent Disturbance (acres)	
<b>Telecommunication Fiber Optic Cables</b>												
Vault Installation	6	25	6 x 6	6 x 6	--	8 x 5	0.13	0.13 <sup>7</sup>	0.13	0.13 <sup>7</sup>	0	xx
Conduit Duct Bank Installation	3,900 feet	17,700 feet	Linear feet x 1.5	Linear feet x 1.5	--	--	0.005	0.005 <sup>7</sup>	0.005	0.005 <sup>7</sup>	0	0
Fiber Optic Cable Pulling Site	6	6	40 x 60	40 x 60	--	--	0.33	0.33	0.33	0.33	0	0
<b>Marshalling Yards</b>												
Yard-1 - Material and Equipment Marshalling Yard <sup>9</sup>	1 (15 acres)	1 (15 acres)	--	--	--	--	--	--	--	--	--	--
Yard-2 - Material and Equipment Marshalling Yard <sup>9</sup>	1 (4 acres)	1 (5.5 acres)	--	--	--	--	--	--	--	--	--	--
<b>Sum of Estimated Disturbance Acreage <sup>10</sup></b>							xx	xx	xx	xx	xx	xx

Notes:

- <sup>1</sup> Permanent disturbance is comprised of the 34-foot-long-wide by 34-foot-long footprint for each LST and clearance of vegetation within 25 feet inside the ROW (approximately 0.2 acre per LST)
- <sup>2</sup> Permanent disturbance is comprised of the 10-foot diameter footprint for each TSP and clearance of vegetation within 25 feet inside the ROW (approximately 0.06 acre per TSP)
- <sup>3</sup> A riser pole is assumed to have the same permanent disturbance as a TSP.
- <sup>4</sup> This structure has pre-existing permanently disturbed area for ongoing operations and maintenance access by SCE
- <sup>4</sup> Based on 9,000 feet conductor reel lengths, number of circuits, and route design.
- <sup>5</sup> Includes anchoring and dead-end hardware and/or equipment needed to temporarily secure conductor wire to the correct tension.
- <sup>6</sup> Based on length of road in miles x road width of 14 feet with 2 feet of shoulder on each side of road.
- <sup>7</sup> The telecommunications fiber optic cables would be installed at the same time as and within the same duct banks the underground 230-kV transmission lines and the distribution lines. As such, the work areas and associated work area and temporary disturbance would not increase.
- <sup>8</sup> TSP riser poles for distribution line locations 7 and 8 would be placed in locations where existing distribution poles are removed; therefore, there would be no new permanent impact areas. Temporary impact areas for riser pole installation are accounted for in the pole removal disturbance acreage.
- <sup>9</sup> Material and Equipment Marshalling Yards to be located in previously disturbed areas.
- <sup>10</sup> The disturbed acreage calculations are estimates based upon SCE's preferred area of use for the described project feature, the width of the existing ROW, or the width of the proposed ROW; they are subject to revision based upon final engineering and review of the project by SCE's Construction Manager and/or contractor awarded project.

**Footings Volume and Area Calculations:**

LST depth +/- 60 ft. deep, 4-ft. diameter, qty 4 per LST: earth removed for footing = +/- 28 cu. yds. x 4 = 112 cu. yds.; surface area = 12.57 sq. ft. x 4 = 50.28 sq. ft.

TSP depth +/- 60 ft. deep, 10-ft. diameter, qty 1 per TSP: earth removed for footing = +/- 175 cu. yds.; surface area = 78.54 sq. ft.

**Table B-1 Areas of Temporary and Permanent Disturbance for Revised Project**

Revised Project Component	Quantity	Disturbance Area (acres) <sup>1, 2</sup>		
		Permanent <sup>3</sup>	Temporary <sup>4</sup>	Total Work Area
<b>Overhead 230-kV Transmission Lines (Wineville Avenue and along I-15)</b>				
LST Installation	3	0.60	2.10	2.70
TSP Installation	2	0.12	0.80	0.92
<i>Subtotal</i>		0.52	2.20	3.62
<b>Underground 230-kV Transmission Lines</b>				
TSP Riser Pole Installation	4	0.30	3.40	3.70
Vault Installation	32	0.03	11.00	11.03
Conduit Duct Bank Installation	22,000 feet	0	15.20	15.20
<i>Subtotal</i>		0.33	29.60	29.93
<b>Underground Distribution Lines (Locations 7 and 8)</b>				
Distribution Pole Removal	11	0	0.19	0.19
TSP Riser Pole Installation <sup>5</sup>	4	0	0.0	0.0
Vault Installation	3	0	0.12	0.12
Conduit Duct Bank Installation	2,800 feet	0	2.11	2.11
<i>Subtotal</i>		0	2.42	2.42
<b>Telecommunication Fiber Optic Cables</b>				
Vault Installation	19	xx	xx	xx
Conduit Duct Bank Installation <sup>7</sup>	13,800 feet	0	--	--
<i>Subtotal</i>		xx	xx	xx
<b>Marshalling Yards</b>				
Etiwanda Marshalling Yard <sup>6</sup>	1	0	0	0
<i>Subtotal</i>		0	0	0
<b>Total</b>		<b>1.05</b>	<b>xx</b>	<b>xx</b>

Notes:

- <sup>1</sup> Values are based on preliminary engineering and may change based on final design and construction.
- <sup>2</sup> Overlapping areas were removed to avoid double-counting impact acreage (e.g., if a material storage area or structure access site intersected with a stringing site area).

## ATTACHMENT B

Revised Project Component	Quantity	Disturbance Area (acres) <sup>1, 2</sup>		
		Permanent <sup>3</sup>	Temporary <sup>4</sup>	Total Work Area

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<sup>3</sup> Permanent disturbance would occur at proposed structure pad locations, manholes, and permanent access and spur roads. A 25-foot radius around each LST and TSP would remain permanently cleared of vegetation.

<sup>4</sup> Temporary disturbance would occur at all other work areas including structure installation and removal sites, line configuration sites, stringing sites, and guard structure sites. Areas within the ROW that may be used as staging areas are already accounted for under the 230-kV Transmission Line. Temporary disturbance areas include existing developed or paved areas within substations.

<sup>5</sup> TSP riser poles would be placed in locations where existing distribution poles are removed; therefore, there would be no new permanent impact areas. Temporary impact areas for riser pole installation are accounted for in the pole removal disturbance acreage.

<sup>6</sup> The 5.5-acre Etiwanda Marshalling Yard would be in a previously disturbed area.

<sup>7</sup> The telecommunications fiber optic cables would be installed inside the same duct bank as one of the 230-kV transmission lines and the distribution lines.

**ATTACHMENT B**

Page 3