Southern California Edison
RTRP A.15-04-013

DATA REQUEST SET A.15-04-013 RTRP-CPUC Deficiency Report-SCE-004 Supplemental 2

To: ENERGY DIVISION
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Dated: 09/23/2016

Question 09:

Provide an updated construction schedule indicating the start date and duration for each project component.

Include detailed information regarding length of time that construction of an individual pole and underground segments would take.

Response to Question 09:

SCE's updated and current construction schedule for the Riverside Transmission Reliability Project (RTRP) is attached to this response and includes the construction time for the 220 kV underground transmission segment.

The estimated average construction times for a lattice steel tower (LST) and a tubular steel pole (TSP) are 10.5 days per LST and 6.8 days per TSP. Please refer to the table below for a more detailed description. The information provided here is taken from the revised Table 2.5-1 that is being provided in SCE's response to Deficiency Report No. 4, Question 10. Note, there is a "cure time" (approximately 20 days) on the concrete for the foundations that is not reflected in the table below for the LST and TSP structures. Until the foundations have cured, SCE cannot build on them.

Type	Work	Est. Days	Qty
LST	LST Foundation Installation	36	12
	LST Steel Haul	6	
	LST Steel Assembly	48	
	LST Erection	36	
	sub-total	126	12
	Estimated LST construction time	**10.5**	**days/LST**
TSP	TSP Foundation Installation	158	51
	TSP Haul	17	
	TSP Assembly	51	
	TSP Erection	102	
	Riser Pole Preparation	20	
	sub-total	348	51
	Estimated TSP construction time	**6.8**	**days/TSP**

The construction time for SCE's proposed underground (UG) transmission facilities is estimated to be 251 days, consisting of the following overlapping work components which may be found in the revised Table 2.5-1.

Type	Work	Est. Days
UG Segment	Vault Installation	224
	Duct Bank Installation	110
	Underground Cable Installation	96
	Trench Restoration/Paving	30
	Cable Splicing	160
	Cable Terminating	120

The attached schedule is an estimate based on planning level assumptions, analyses performed to date, and known conditions. RTRP's schedule is subject to change in response to various factors, including the CPUC's final approval of RTRP's CPCN, completion of final engineering, changes to and/or verification of existing field conditions, identification of new field conditions, system outage constraints, availability of labor, material, and equipment, and compliance with applicable environmental and/or permitting requirements.