PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

SAN FRANCISCO, CA 94102-3298

December 5, 2022

Tom Diaz
SCE Regulatory Affairs - Infrastructure Licensing
Southern California Edison

Via email to thomas.diaz@sce.com

RE: CPUC Supplemental Data Request 15 for the Southern California Edison Alberhill System Project, A.09-09-022

Dear Mr. Diaz,

Upon further review of Southern California Edison's supplemental data response to the additional analyses requested in Decision 18-08-026, the Energy Division requests the information contained in Attachment 1 to this letter. Responses should be submitted to the Energy Division and WSP in electronic format. We request that SCE respond to this data request by December 16, 2022. Inform us as soon as possible if you cannot provide specific responses by this date. Delays in responding to this data request may cause delays in the supplemental analysis review process.

Direct questions to Joyce Steingass at (415) 703-1810 or by e-mail (address below). Please copy the CPUC's consultant, Amy DiCarlantonio, WSP, on all communications (amy.dicarlantonio@wsp.com). Energy Division reserves the right to request additional information at any point during the proceeding and subsequently during project construction and restoration should Application (09-09-022) be approved.

Sincerely,

Joyce Steingass, P.E.
CPUC Project Manager
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102-3298
Joyce.Steingass@cpuc.ca.gov

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

SAN FRANCISCO, CA 94102-3298

CC: Amy DiCarlantonio, Project Manager, WSP

Attachment 1: 2022-1205_Data Request No. 15_Table

Attachment 1: 2022-1205_Data Request No. 15_Table

DG #	Resource Areas/ Topic	SCE Data Submittal Item/Page	Data Gap Question	Response
DG-MISC-85	PSLF Validation	Alberhill System Project Energy Division Presentation 8/30/2022	Slide 68 of SCE's August 30, 2022 presentation includes a table in the lower left of the slide that appears to show peak load at each of the distribution substations. Based on the text in the lower right corner of this slide, it is expected that the Tenaja and Stadler substation would sum to approximately 205 MVA in this table. In addition, the power flow shown on the PSLF screenshots on slide 74 of this presentation also shows flow to Tenaja and Stadler substations as approximately 205 MVA. However, the load of Tenaja and Stadler substations in the table on slide 68 total approximately 186 MVA. Please provide information to clarify this discrepancy and as needed, provide updates to associated verification slides. Slides 68 and 74 are included below for reference. Slide 68	

Leading the Way in Electricity™

A.09-09-022 CPUC-Supplemental Data Request-013 Q.DG-MISC-82_FollowUp_2

	A	B	C	D	E	F	G	H	I		J	K	L	M	N	O	P
	Substation	Load-serving xfmr Inventory	Installed xfmr Capacity	Peak Load w/losses Before Project	Initial Peak Load Transfer of Alternative if applicable	Peak Load w/losses After Initial Load Transfer	BESS Size if applicable	Peak Load w/losses After Initial Load Transfer and BESS	Transfer Capability (Away) During xfmr N-1	% of Peak Load that can be transferred away	Peak Load w/losses After Initial Load Transfer, After BESS, and After Transfer Capability (Away)	STELL of remaining xfmr	Peak Load at risk during xfmr N-1 during 1st Hour STELL	LTELL of remaining xfmr	Peak Load at risk during xfmr N-1 for hours 2-24 LTELL if the Valley Sub on-site spare xfmr is not available for either VS or VN	LTELL Capacity of VS or VN during xfmr N-1 for hours 2-24 with Valley on-site spare available to address this xfmr outage	Peak Load at risk during Valley Sub xfmr N-1 for hours 2-24 with LTELL rating w/Valley on-site spare available to address this xfmr outage in either VS or VN
						Col. D + Col. E		Col. F - Col. G			Col. H - Col. I	=160% X remaining xfmr capacity	If Col. J < Col. K then 0, otherwise Col. J - Col. K	=120% X remaining xfmr capacity	If Col. J < Col. M then 0, otherwise Col. J - Col. M	=2 X 560 X 120%	If Col. J < Col. O then 0, otherwise Col. J - Col. O
1	Valley South (as is)	2@560	1120	1264	0	1264	0	1264	0	0%	1264	896	368	672	592	1344	0
2	Alberhill Alternative																
3	Alberhill	2@560	1120	0	422	422	N/A	422	369	87%	53	896	0	672	0	N/A	N/A
4	Valley South	2@560	1120	1264	-422	842	N/A	842	205	24%	637	896	0	672	0	1344	0
28	VS-VN+CBESS in VS Alternative (12A)																
29	Valley North	2@560	1120	907	210	1117	N/A	1117	356	32%	761	896	0	672	89	1344	0
30	Valley South	2@560	1120	1264	-210	1054	158	896	0	0%	896	896	0	672	224	1344	0
31	VS-VN+CBESS in VS Alternative (12B)																
32	Valley North	2@560	1120	907	0	907	N/A	907	146	16%	761	896	0	672	89	1344	0
33	Valley South	2@560	1120	1264	0	1264	158	1106	210	19%	896	896	0	672	224	1344	0

Table load [Last: 14 , Max: 75000] C:\Users\mccabepa\Onel

Table Options Help CurRow: 0

BUS-NO	NAME	KV	ID	ST	PLOAD
95425	AULD	115.00	1	1	161.44
95432	SUN CITY	115.00	1	1	58.26
95428	SKYLARK	115.00	1	1	76.47
95458	TENAJA	115.00	1	1	59.48
95429	PAUBA	115.00	1	1	43.70
95430	STADLER	115.00	1	1	126.24
95459	FOGARTY	115.00	1	1	36.42
95431	IVYGLEN	115.00	1	1	52.20
95439	NEWCOMB	115.00	1	1	146.88
95440	ELSINORE	115.00	1	1	99.54
95442	MORAGA	115.00	1	1	135.95
95446	PACHENGA	115.00	1	1	120.17
95460	TRITON	115.00	1	1	69.19
95451	RECTIFI	115.00	1	1	13.35
95455	STENT	115.00	1	1	14.57

Table load [Last: 14 , Max: 75000] C:\Users\mccabepa\Onel

Table Options Help CurRow: 0

BUS-NO	NAME	KV	ID	ST	PLOAD
95425	AULD	115.00	1	1	161.44
95432	SUN CITY	115.00	1	1	58.26
95428	SKYLARK	115.00	1	1	76.47
95458	TENAJA	115.00	1	1	59.48
95429	PAUBA	115.00	1	1	43.70
95430	STADLER	115.00	1	1	126.24
95459	FOGARTY	115.00	1	1	36.42
95431	IVYGLEN	115.00	1	1	52.20
95439	NEWCOMB	115.00	1	1	146.88
95440	ELSINORE	115.00	1	1	99.54
95442	MORAGA	115.00	1	1	135.95
95446	PACHENGA	115.00	1	1	120.17
95460	TRITON	115.00	1	1	69.19
95451	RECTIFI	115.00	1	1	13.35
95455	STENT	115.00	1	1	14.57

Related to the tables to the left:
The five substations (highlighted yellow) that are transferred to Alberhill from Valley South total 412 MVA in load before losses and 422 MVA with losses. The two additional substations (highlighted in pink) that can also be transferred during emergency conditions total 200 MVA before losses and 205 MVA with losses. The values highlighted in green represent the transfer of Newcomb and Sun City (either as part of initial transfer (12A) or tie-line transfer (12B) and total 205 MVA before losses and 210 with losses.

Final load values (in column J) are compared to operating limits in column M to determine how much load is at risk of being unserved if an unplanned transformer occurs and the spare transformer is unavailable (for hour 2+ of the outage).

Aug. 30, 2022 68 SOUTHERN CALIFORNIA EDISON

Attachment 1: 2022-1205_Data Request No. 15_Table

DG #	Resource Areas/ Topic	SCE Data Submittal Item/Page	Data Gap Question	Response
			Slide 74