Southern California Edison A.23-03-005 – Cal City PTC

DATA REQUEST SET ED-SCE-002

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Response Date: 8/10/2023

Question 05:

Purpose and Objectives: The Project includes two 115 kV source lines that would reduce reliance on Edwards Substation to serve non-military base load in the ENA. Please provide the MVA current and forecasted demand for the military base load as well as for the non-base load.

Response to Question 05:

SCE's Edwards 115/33 kV Substation serves military base load and non-military base load via three 33 kV circuits. The Rickenback 33 kV circuit exclusively serves the military base load while the Castle Butte and Balchen 33 kV circuits serve the non-military base load.

Listed below is the forecast capacity versus demand for all three circuits for the years 2022-2031.

Non-Military Load											
Balchen 33 kV Line	Year										
Projected: Capacity versus Peak Demand	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Maximum Operating Limit (MVA)*	23.0	23.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	
Peak Demand: Normal Weather	0.0	10.0	29.9	29.9	29.9	29.9	0.0	0.0	0.0	0.0	
Peak Demand: 1-in-10 Year Heat Storm (MVA)	0.0	10.5	31.6	31.6	31.6	31.6	0.0	0.0	0.0	0.0	
Surplus/Deficit (MVA)	23.0	12.5	1.3	1.3	1.3	1.3	32.9	32.9	32.9	32.9	

Castle Butte 33 kV Line	Year									
Projected: Capacity versus Peak Demand	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Maximum Operating Limit (MVA)	15.2	22.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
Peak Demand: Normal Weather (MVA)	14.4	17.9	27.9	27.9	28.0	28.0	18.0	18.1	18.2	18.2
Peak Demand: 1-in-10 Year Heat Storm (MVA)	15.2	18.8	29.4	29.5	29.5	29.5	19.0	19.1	19.1	19.2
Surplus/Deficit (MVA)	0.0	3.2	3.5	3.4	3.4	3.4	13.9	13.8	13.8	13.7

Military Load										
Rickenback 33 kV Line	Year									
Projected: Capacity versus Peak Demand	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Maximum Operating Limit (MVA)	15.2	22.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
Peak Demand: Normal Weather (MVA)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Peak Demand: 1-in-10 Year Heat Storm (MVA)	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Surplus/Deficit (MVA)	5.8	12.6	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5