

Study Area: **SCE Tehachapi & Big Creek Corridor**

Voltage Deviation



Substation	Contingency (All and Worst P6)	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)					Post Cont. Voltage Deviation % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
ALAMO SC 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	14.36	33.11	20.90	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	13.38	33.04	19.31	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
ALPINE 66 kV	line_P3_105185_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen ALPINE_G 0.5 Unit ID EQ	P3	G-1/N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.10	system adjustments after first contingency mitigates the issue
	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	8.32	20.57	14.60	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202927_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line ALPINE_B 34.5 to ALPINE_C 34.5 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.10	system adjustments after first contingency mitigates the issue
	line_P6_205009_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ALPINE 66.00 to ALPINE_B 34.50 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.10	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	20.46	13.41	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
BAILEY 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	15.37	34.30	20.90	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	14.38	34.23	19.31	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
NEENACH 66 kV	line_P3_105185_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen ALPINE_G 0.5 Unit ID EQ	P3	G-1/N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.09	system adjustments after first contingency mitigates the issue
	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	8.59	20.57	14.60	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202909_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line NEENACH 66.0 to ALPINE 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.31	system adjustments after first contingency mitigates the issue
	line_P6_202927_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line ALPINE_B 34.5 to ALPINE_C 34.5 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.09	system adjustments after first contingency mitigates the issue
	line_P6_205009_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ALPINE 66.00 to ALPINE_B 34.50 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.09	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	20.46	13.41	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
OSO 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	14.78	33.60	20.90	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	13.79	33.53	19.31	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105132_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen B CRK 4 11.5 Unit ID 42	P3	G-1/N-1	< 8	< 8	< 8	8.10	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue

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				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
TAP 85 66 kV	line_P3_105135_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen MAMOTH1G 13.8 Unit ID 1	P3	G-1/N-1	< 8	< 8	< 8	8.06	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105136_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen MAMOTH2G 13.8 Unit ID 2	P3	G-1/N-1	< 8	< 8	< 8	8.06	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105142_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen WELLGEN 13.8 Unit ID 1	P3	G-1/N-1	< 8	< 8	< 8	8.10	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105162_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen WDT1384_G 0.6 Unit ID 1	P3	G-1/N-1	< 8	< 8	< 8	8.09	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105163_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAG1 18.0 Unit ID G1	P3	G-1/N-1	< 8	< 8	< 8	8.05	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105164_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAG2 18.0 Unit ID G2	P3	G-1/N-1	< 8	< 8	< 8	8.05	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105165_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAS1 18.0 Unit ID S1	P3	G-1/N-1	< 8	< 8	< 8	8.05	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105166_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAG3 18.0 Unit ID G3	P3	G-1/N-1	< 8	< 8	< 8	8.10	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105185_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen ALPINE_G 0.5 Unit ID EQ	P3	G-1/N-1	< 8	< 8	< 8	< 8	< 8	< 8	9.18	11.30	system adjustments after first contingency mitigates the issue
	line_P6_201719_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.02	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	15.02	32.43	20.42	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202097_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.53	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202147_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.52	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202196_Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.62	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202244_Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.51	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202631_Line Pardee - Pistoria - Warne 230 kV Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.57	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202909_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line NEENACH 66.0 to ALPINE 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	9.42	11.53	system adjustments after first contingency mitigates the issue
	line_P6_202927_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line ALPINE_B 34.5 to ALPINE_C 34.5 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	9.18	11.30	system adjustments after first contingency mitigates the issue

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				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
	line_P6_204985_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 1	P6	N-1-1	< 8	< 8	< 8	9.12	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_204986_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 8	< 8	< 8	9.17	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_204988_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 8	< 8	< 8	9.16	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_205009_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ALPINE 66.00 to ALPINE_B 34.50 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	9.18	11.30	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	14.05	32.36	18.85	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
TAP 86 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	14.78	33.60	20.90	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	13.79	33.53	19.31	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105135_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen MAMOTH1G 13.8 Unit ID 1	P3	G-1/N-1	< 8	< 8	< 8	8.13	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105136_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen MAMOTH2G 13.8 Unit ID 2	P3	G-1/N-1	< 8	< 8	< 8	8.12	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105159_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen TOT896_G1ST 0.6 Unit ID 1	P3	G-1/N-1	< 8	< 8	< 8	8.05	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105161_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen TOT896_G2ST 0.6 Unit ID 1	P3	G-1/N-1	< 8	< 8	< 8	8.05	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105163_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAG1 18.0 Unit ID G1	P3	G-1/N-1	< 8	< 8	< 8	8.12	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105164_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAG2 18.0 Unit ID G2	P3	G-1/N-1	< 8	< 8	< 8	8.12	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105165_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen PSTRIAS1 18.0 Unit ID S1	P3	G-1/N-1	< 8	< 8	< 8	8.12	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P3_105185_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Gen ALPINE_G 0.5 Unit ID EQ	P3	G-1/N-1	< 8	< 8	< 8	< 8	< 8	< 8	9.28	11.40	system adjustments after first contingency mitigates the issue
	line_P6_201481_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.03	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_201719_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.08	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	15.19	32.55	20.62	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue

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				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
WESTPAC 66 kV	line_P6_202046_Line PASTORIA 230.0 to PSTRIA 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.02	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202097_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.61	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202147_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.59	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202196_Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.69	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202244_Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.59	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202631_Line Pardee - Pastoria - Warne 230 kV line Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	8.65	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_202909_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line NEENACH 66.0 to ALPINE 66.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	9.53	11.64	system adjustments after first contingency mitigates the issue
	line_P6_202927_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Line ALPINE_B 34.5 to ALPINE_C 34.5 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	9.28	11.40	system adjustments after first contingency mitigates the issue
	line_P6_204985_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.0 to ANTELOPE 230.00 Circuit 1	P6	N-1-1	< 8	< 8	< 8	9.19	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_204986_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.0 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 8	< 8	< 8	9.25	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_204988_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.0 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 8	< 8	< 8	9.24	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	line_P6_205009_Line BAILEY 66.0 to TAP 85 66.0 Circuit 1 Tran ALPINE 66.0 to ALPINE_B 34.50 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	9.28	11.40	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	14.21	32.47	19.02	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
BAILEY 230 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	13.92	33.06	19.66	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
BIG CRK4 230 kV	line_BC_P7_03_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	< 8	< 8	8.01	< 8	< 8	< 8	< 8	< 8	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200923_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 8	< 8	8.01	< 8	< 8	< 8	< 8	< 8	Existing Big Creek/San Joaquin Valley RAS
RECTOR 230 kV	line_BC_P7_03_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	< 8	< 8	8.70	< 8	< 8	< 8	< 8	< 8	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200923_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 8	< 8	8.70	< 8	< 8	< 8	< 8	< 8	Existing Big Creek/San Joaquin Valley RAS

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				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
RECTRSVC 230 kV	line_BC_P7_03_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	< 8	< 8	8.67	< 8	< 8	< 8	< 8	< 8	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200923_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 8	< 8	8.67	< 8	< 8	< 8	< 8	< 8	Existing Big Creek/San Joaquin Valley RAS

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Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
24087 MAGUNDEN 230 24115 PASTORIA 230 1 1	line_P6_200164_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3	P6	N-1-1	119.4	< 100	< 100	137.2	Diverge	140.6	174.7	193.6	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200185_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	101.5	Diverge	101.9	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200186_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	102.5	Diverge	103.0	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200187_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	129.7	141.7	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200188_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line PARDEE 230.0 to VINCENT 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.2	121.4	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200191_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line PASTORIA 230.0 to PSTRIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	108.0	Diverge	111.8	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200203_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line PARDEE 230.0 to VINCNT2 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.2	122.4	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200213_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line NEENACH 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	108.8	120.9	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200264_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	101.9	Diverge	102.2	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200265_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	102.9	Diverge	103.2	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200266_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.2	130.3	142.2	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200267_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line PARDEE 230.0 to VINCENT 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.6	121.8	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200270_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line PASTORIA 230.0 to PSTRIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	108.5	Diverge	112.2	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200282_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line PARDEE 230.0 to VINCNT2 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.6	122.8	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS

Study Area: **SCE Tehachapi & Big Creek Corridor**

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
	line_P6_200291_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	108.6	120.9	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200292_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line NEENACH 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.2	121.3	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200084_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3	P6	N-1-1	119.9	< 100	< 100	137.8	Diverge	141.1	175.3	194.3	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
24087 MAGUNDEN 230 24115 PASTORIA 230 2 1	line_P6_200105_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	102.1	Diverge	102.5	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200106_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	103.1	Diverge	103.6	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200107_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.5	130.5	142.5	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200108_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to VINCENT 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.9	122.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200111_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line PASTORIA 230.0 to PSTRIA 230.0 Circuit 1	P6	N-1-1	100.1	< 100	< 100	108.7	Diverge	112.5	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200123_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to VINCNT2 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.9	123.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200133_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line NEENACH 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.5	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200264_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	103.0	Diverge	103.3	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200265_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	104.0	Diverge	104.3	< 100	121.9	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200266_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	101.3	131.7	143.7	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200267_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line PARDEE 230.0 to VINCENT 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.7	123.0	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS

Study Area: **SCE Tehachapi & Big Creek Corridor**

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
	line_P6_200270_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line PASTORIA 230.0 to PSTRIA 230.0 Circuit 1	P6	N-1-1	100.9	< 100	< 100	109.6	Diverge	113.4	< 100	< 100	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200282_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line PARDEE 230.0 to VINCNT2 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	111.8	124.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200291_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.7	122.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200292_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3 Line NEENACH 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.4	122.6	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
24087 MAGUNDEN 230 24115 PASTORIA 230 3 1	line_P6_200083_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	Diverge	< 100	123.2	136.6	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200107_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.7	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200187_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	101.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
24087 MAGUNDEN 230 24153 VESTAL 230 1 1	line_P6_200325_Line MAGUNDEN 230.0 to SPRINGVL 230.0 Circuit 1 Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103.1	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200402_Line MAGUNDEN 230.0 to SPRINGVL 230.0 Circuit 2 Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103.1	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200554_Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 2 Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	104.1	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200564_Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 2 Line BIG CRK4 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.3	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200568_Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 2 Line SPRINGVL 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.7	Existing Big Creek/San Joaquin Valley RAS
24087 MAGUNDEN 230 24153 VESTAL 230 2 1	line_P6_200493_Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 1 Line SPRINGVL 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103.3	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201699_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	103.0	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS

Study Area: **SCE Tehachapi & Big Creek Corridor**

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
24114 PARDEE 230 1 1 24115 PASTORIA	line_P6_201756_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	103.8	Diverge	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201923_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	124.8	< 100	< 100	132.2	Diverge	139.4	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201924_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	121.1	< 100	< 100	128.5	Diverge	135.5	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201933_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line Pardee - Pastoria - Warner 230 kV line	P6	N-1-1	121.4	< 100	< 100	128.7	Diverge	135.8	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201974_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	105.2	< 100	109.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201976_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	104.4	< 100	109.4	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201977_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	106.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201986_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line Pardee - Pastoria - Warner 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	107.1	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202079_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	134.0	107.9	< 100	142.7	Diverge	148.6	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202080_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	130.0	104.1	< 100	138.8	Diverge	144.5	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202089_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line Pardee - Pastoria - Warner 230 kV line	P6	N-1-1	130.4	104.4	< 100	139.1	Diverge	144.8	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201699_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	107.1	< 100	< 100	118.3	Diverge	121.8	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201700_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	114.6	Diverge	119.0	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201756_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	107.8	< 100	< 100	119.2	Diverge	122.7	< 100	< 100	Existing Pastoria Energy Facility RAS

Study Area:

SCE Tehachapi & Big Creek Corridor

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
24114 PARDEE 230 1 1	line_P6_201757_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	115.4	Diverge	119.8	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201809_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PARDEE 230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	105.0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201812_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	109.4	< 100	< 100	111.9	< 100	118.7	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201813_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	108.0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201919_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	109.0	< 100	< 100	114.1	< 100	120.4	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201922_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	139.8	108.7	< 100	147.9	Diverge	156.2	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201974_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	115.0	< 100	< 100	120.7	Diverge	126.1	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201975_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	112.5	< 100	< 100	117.8	Diverge	123.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202078_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	149.9	121.2	< 100	159.7	Diverge	166.4	< 100	< 100	Existing Pastoria Energy Facility RAS
24114 PARDEE 230 1 1	line_P6_201976_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.5	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202129_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	120.0	< 100	< 100	127.1	Diverge	134.3	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202130_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	116.4	< 100	< 100	123.4	Diverge	130.6	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202139_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	116.7	< 100	< 100	123.7	Diverge	130.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201699_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	110.7	Diverge	113.9	< 100	< 100	Existing Pastoria Energy Facility RAS

Study Area:

SCE Tehachapi & Big Creek Corridor

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
24115 PASTORIA 230 24217 WARNETAP 230 1 1	line_P6_201700_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	107.1	Diverge	111.1	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201756_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	100.0	< 100	< 100	111.6	Diverge	114.8	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201757_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	107.9	Diverge	111.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201812_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	101.6	< 100	< 100	104.3	< 100	110.7	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201813_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	100.1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201919_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	101.3	< 100	< 100	106.5	< 100	112.4	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201922_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	132.0	100.8	< 100	140.2	Diverge	148.2	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201974_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	107.2	< 100	< 100	113.1	Diverge	118.1	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201975_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	104.7	< 100	< 100	110.2	Diverge	115.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202078_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	142.0	113.3	< 100	152.0	Diverge	158.3	< 100	< 100	Existing Pastoria Energy Facility RAS
24141 SPRINGVL 230 24304 BIG CRK4 230 1 1	line_BC_P7_03_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	105.4	103.8	< 100	Diverge	Diverge	108.4	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200923_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	105.4	103.8	< 100	Diverge	Diverge	108.4	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200929_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	101.7	< 100	< 100	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201264_Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	102.9	101.9	< 100	109.8	Diverge	106.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS

Study Area: **SCE Tehachapi & Big Creek Corridor**

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
24235 RECTOR 230 24303 BIG CRK3 230 2 1	line_BC_P7_03_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	116.3	116.2	114.7	Diverge	Diverge	115.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200637_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	100.1	< 100	< 100	< 100	< 100	101.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200923_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	116.3	116.2	114.7	Diverge	Diverge	115.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24301 BIG CRK1 230 24235 RECTOR 230 1 1	line_P6_200637_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	122.2	121.5	115.7	Diverge	Diverge	123.3	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200643_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	112.0	111.7	106.0	116.1	Diverge	113.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201126_Line BIG CRK2 230.0 to BIG CRK3 230.0 Circuit 1 Line BIG CRK2 230.0 to BIG CRK8 230.0 Circuit 1	P6	N-1-1	111.0	113.4	101.6	114.7	Diverge	113.4	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201129_Line BIG CRK2 230.0 to BIG CRK3 230.0 Circuit 1 Line BIG CRK8 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	128.2	130.7	115.3	132.4	Diverge	131.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201259_Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK4 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	108.0	108.0	102.9	111.2	Diverge	109.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201264_Line BIG CRK3 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	137.7	138.3	134.2	137.6	Diverge	136.4	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201328_Line BIG CRK4 230.0 to BIG CRK3 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	102.6	Diverge	100.8	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24302 BIG CRK2 230 24303 BIG CRK3 230 1 1	line_P6_200922_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK2 230.0 to BIG CRK8 230.0 Circuit 1	P6	N-1-1	109.3	111.0	100.8	112.8	Diverge	111.1	< 100	< 100	Reduce Big Creek generation after initial contingency
	line_P6_200925_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK8 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	125.7	127.1	114.1	129.4	Diverge	127.4	< 100	< 100	Reduce Big Creek generation after initial contingency
24302 BIG CRK2 230 24305 BIG CRK8 230 1 1	line_P6_200921_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK2 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	115.6	117.3	106.6	119.3	Diverge	117.5	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200632_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	129.9	129.0	123.2	Diverge	Diverge	131.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS

Study Area: **SCE Tehachapi & Big Creek Corridor**

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
24303 BIG CRK3 230 1 1 24235 RECTOR	line_P6_200643_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	127.1	126.7	120.7	131.5	Diverge	128.3	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200924_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK4 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	114.5	113.8	109.4	117.8	Diverge	115.3	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_200929_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	144.9	145.0	141.1	143.9	Diverge	143.2	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201328_Line BIG CRK4 230.0 to BIG CRK3 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2	P6	N-1-1	112.0	112.0	107.2	114.9	Diverge	113.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24305 BIG CRK8 230 1 1 24303 BIG CRK3	line_P6_200921_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BIG CRK2 230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	132.9	134.3	120.7	136.8	Diverge	134.6	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24401 ANTELOPE 230 1 1 29698 BIG SKY	line_P6_200083_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.4	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200084_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 1 Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.3	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200164_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 3	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.3	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200187_Line MAGUNDEN 230.0 to PASTORIA 230.0 Circuit 2 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200497_Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 1 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.2	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_200572_Line MAGUNDEN 230.0 to VESTAL 230.0 Circuit 2 Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.2	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_201832_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line BAILEY 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_201833_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line NEENACH 66.0 to TAP 85 66.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.2	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
	line_P6_202129_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS

Study Area: **SCE Tehachapi & Big Creek Corridor**

Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
	line_P6_202139_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100.1	Curtail Generation North of Magunden after First Contingency and/or BC/SJV RAS
24402 ANTELOPE 66.0 24401 ANTELOPE 230 1 1	tran_P6_206008_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2 0.00 Tran ANTELOPE 66.00 to ANTELOPE	P6	N-1-1	114.5	141.3	169.5	110.7	< 100	< 100	< 100	< 100	Energize existing spare after initial contingency
24402 ANTELOPE 66.0 24401 ANTELOPE 230 2 1	tran_P6_205979_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 1 0.00 Tran ANTELOPE 66.00 to ANTELOPE	P6	N-1-1	114.8	141.6	170.1	110.7	< 100	< 100	< 100	< 100	Energize existing spare after initial contingency
24402 ANTELOPE 66.0 24401 ANTELOPE 230 4 1	tran_P6_205977_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 1 0.00 Tran ANTELOPE 66.00 to ANTELOPE	P6	N-1-1	114.8	141.6	170.0	110.7	< 100	< 100	< 100	< 100	Energize existing spare after initial contingency
24402 ANTELOPE 66.0 24420 NEENACH 66.0 1 1	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	109.8	< 100	< 100	< 100	< 100	< 100	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	109.0	< 100	< 100	< 100	< 100	< 100	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
24403 BAILEY 230 24115 PASTORIA 230 1 1	line_P6_201701_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	107.5	Diverge	109.5	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201757_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	106.6	Diverge	108.6	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201758_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	108.3	Diverge	110.3	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201975_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	102.7	< 100	< 100	108.4	< 100	111.8	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201976_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	104.2	< 100	< 100	110.2	< 100	113.4	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201977_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	101.8	< 100	< 100	107.7	< 100	110.9	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201986_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	102.0	< 100	< 100	107.8	< 100	111.0	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202129_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	134.9	111.1	< 100	143.8	Diverge	148.8	< 100	< 100	Existing Pastoria Energy Facility RAS



Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
	line_P6_202130_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	131.0	107.3	< 100	139.9	Diverge	144.8	< 100	< 100	Existing Pastoria Energy Facility RAS

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)					Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
					2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	
ALAMO SC 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.88	0.70	0.82	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.89	0.70	0.84	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
ALPINE 66 kV	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.9 < V < 1.1	0.83	0.88	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
BAILEY 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.87	0.69	0.82	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.88	0.69	0.84	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
NEENACH 66 kV	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.9 < V < 1.1	0.83	0.88	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
OSO 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.87	0.69	0.82	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.88	0.69	0.84	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
TAP 85 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.87	0.70	0.82	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.88	0.70	0.84	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
TAP 86 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.87	0.69	0.82	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.88	0.69	0.84	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
WESTPAC 66 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.86	0.69	0.81	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
	tran_P6_206091_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	Low	0.9 < V < 1.1	0.87	0.69	0.83	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
BAILEY 230 kV	line_P6_201921_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	Low	0.9 < V < 1.1	0.84	0.66	0.80	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue

Study Area: SCE Tehachapi & Big Creek Corridor

Transient Stability



Contingency	Category	Category Description	Transient Stability Performance						Potential Mitigation Solutions
			Baseline Scenarios				Sensitivity Scenarios		
			2024 Spring Off-Peak	2027 Summer Peak	2032 Summer Peak	2032 Spring Off-Peak	2027 SP High CEC Forecast	2024 OP Sensitivity	



Single Contingency Load Drop

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)													Potential Mitigation Solutions
			2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Winter Peak	2027 Winter Peak	2032 Winter Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2032 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	2032 SP with Additional Transportation Electrification	

No single contingency resulted in total load drop of more than 250 MW

Study Area: SCE Tehachapi & Big Creek Corridor



Single Source Substation with more than 100 MW Load

Substation	Load Served (MW)													Potential Mitigation Solutions
	2024 Summer Peak	2027 Summer Peak	2032 Summer Peak	2024 Winter Peak	2027 Winter Peak	2032 Winter Peak	2024 Spring Off-Peak	2027 Spring Off-Peak	2032 Spring Off-Peak	2027 SP High CEC Forecast	2024 SP Heavy Renewable & Min Gas Gen	2024 OP Sensitivity	2032 SP with Additional Transportation Electrification	

No single source substation with more than 100 MW