

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)						Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2028 Summer-Off Peak	2025 Spring-Off Peak	2028 Spring-Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
24087 MAGUNDEN 230 24115 PASTORIA 230 1 1	line_P6_200188_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	99.3	< 100	112.0	< 100	106.4	< 100	Existing Big Creek/San Joaquin Valley RAS
24087 MAGUNDEN 230 24115 PASTORIA 230 2 1	line_P6_200096_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	99.7	< 100	112.4	< 100	106.8	< 100	Existing Big Creek/San Joaquin Valley RAS
24087 MAGUNDEN 230 24401 ANTELOPE 230 1 1	line_P6_202053_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	105.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202056_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	< 100	< 100	107.6	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202057_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	< 100	< 100	107.0	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202058_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	< 100	< 100	108.7	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202059_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	105.7	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202068_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	105.0	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201987_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	< 100	< 100	101.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24114 PARDEE 230 24115 PASTORIA 230 1 1	line_P6_201989_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	< 100	< 100	104.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201990_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201999_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.3	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202053_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.4	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202056_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	< 100	< 100	102.0	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202058_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	< 100	< 100	105.0	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202059_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.9	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202068_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	101.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202324_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	102.6	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P3_103309_Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1 Gen TOT896_G2ST 0.6 Unit ID 1	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	111.3	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24114 PARDEE 230 24217 WARNETAP 230 1 1	line_P6_201984_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line PARDEE 230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	118.4	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201987_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	< 100	< 100	120.0	< 100	100.9	< 100	Existing Pastoria Energy Facility RAS
	line_P6_201988_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	< 100	< 100	120.7	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202053_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PARDEE 230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	119.3	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202056_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	< 100	< 100	121.0	< 100	101.4	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202057_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	< 100	< 100	121.7	< 100	100.3	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202121_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PARDEE 230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103.1	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202124_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	104.9	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202125_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	< 100	< 100	< 100	< 100	< 100	< 100	105.1	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202255_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	117.4	< 100	105.4	< 100	Existing Pastoria Energy Facility RAS

Study Area:

SCE Tehachapi &amp; Big Creek Corridor

Thermal Overloads



				line_P6_202322_Line PASTORIA BAILEY 230.0 to PASTORIA	230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	118.5	< 100	108.8	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202323_Line PASTORIA PARDEE 230.0 to PASTORIA	230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	119.4	< 100	107.9	< 100	Existing Pastoria Energy Facility RAS
24114 PARDEE	230	24403 BAILEY	230	line_P6_201989_Line MAGUNDEN Line PARDEE 230.0 to WARNETAP	230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	100.8	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202058_Line MAGUNDEN Line PARDEE 230.0 to WARNETAP	230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	101.6	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24115 PASTORIA	230	24217 WARNETAP	230	line_P3_103309_Line PARDEE TOT896_G2ST 0.6 Unit ID 1	230.0 to PASTORIA 230.0 Circuit 1 Gen	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	100.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_201984_Line MAGUNDEN Line PARDEE 230.0 to BAILEY	230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	107.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_201987_Line MAGUNDEN Line BAILEY 230.0 to PASTORIA	230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	108.7	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_201988_Line MAGUNDEN Line PARDEE 230.0 to PASTORIA	230.0 to ANTELOPE 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	109.4	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202053_Line MAGUNDEN Line PARDEE 230.0 to BAILEY	230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	108.0	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202056_Line MAGUNDEN Line BAILEY 230.0 to PASTORIA	230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	109.7	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202057_Line MAGUNDEN Line PARDEE 230.0 to PASTORIA	230.0 to ANTELOPE 230.0 Circuit 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	110.4	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202255_Line PARDEE PASTORIA 230.0 to EDMONSTN	230.0 to BAILEY 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	106.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202322_Line PASTORIA BAILEY 230.0 to PASTORIA	230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	107.2	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202323_Line PASTORIA PARDEE 230.0 to PASTORIA	230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	108.1	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24301 BIG CRK1	230	24235 RECTOR	230	line_P6_201306_Line BIG CRK2 BIG CRK2 230.0 to BIG CRK8	230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	< 100	107.0	< 100	< 100	107.8	107.6	107.0	< 100	107.9	Existing Big Creek/San Joaquin Valley RAS
				line_P6_201309_Line BIG CRK2 BIG CRK8 230.0 to BIG CRK3	230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	< 100	124.1	< 100	< 100	124.7	124.3	124.2	< 100	125.1	Existing Big Creek/San Joaquin Valley RAS
24302 BIG CRK2	230	24303 BIG CRK3	230	line_P6_201463_Line BIG CRK3 BIG CRK4 230.0 to BIG CRK3	230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	102.4	< 100	< 100	103.1	101.7	102.5	< 100	104.4	Existing Big Creek/San Joaquin Valley RAS
				line_P6_201066_Line BIG CRK1 BIG CRK2 230.0 to BIG CRK8	230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	110.3	< 100	< 100	111.6	111.6	110.3	< 100	112.3	Reduce Big Creek generation after initial contingency
24302 BIG CRK2	230	24303 BIG CRK3	230	line_P6_201069_Line BIG CRK1 BIG CRK8 230.0 to BIG CRK3	230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	126.3	< 100	< 100	127.8	127.5	126.3	< 100	128.8	Reduce Big Creek generation after initial contingency
				line_P6_201065_Line BIG CRK1 BIG CRK2 230.0 to BIG CRK3	230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	111.0	< 100	< 100	112.4	112.4	111.0	< 100	113.0	Existing Big Creek/San Joaquin Valley RAS
24303 BIG CRK3	230	24235 RECTOR	230	line_P6_200728_Line SPRINGVL BIG CRK1 230.0 to RECTOR	230.0 to BIG CRK4 230.0 Circuit 1	P6	N-1-1	101.7	122.9	< 100	< 100	124.2	120.2	123.1	102.4	Diverge	Existing Big Creek/San Joaquin Valley RAS
				line_P6_201068_Line BIG CRK1 BIG CRK4 230.0 to BIG CRK3	230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	108.1	< 100	< 100	109.2	107.4	108.3	< 100	110.6	Existing Big Creek/San Joaquin Valley RAS
				line_P6_201073_Line BIG CRK1 RECTOR 230.0 to BIG CRK3	230.0 to RECTOR 230.0 Circuit 2	P6	N-1-1	116.8	143.5	111.6	114.7	140.6	126.0	144.3	113.7	141.5	Existing Big Creek/San Joaquin Valley RAS
				line_P6_201154_Line BIG CRK1 RECTOR 230.0 to BIG CRK3	230.0 to BIG CRK2 230.0 Circuit 2	P6	N-1-1	< 100	< 100	104.2	99.1	< 100	< 100	95.7	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
				line_P6_201544_Line BIG CRK4 RECTOR 230.0 to BIG CRK3	230.0 to BIG CRK3 230.0 Circuit 1	P6	N-1-1	< 100	106.3	< 100	< 100	107.0	105.6	106.4	< 100	108.2	Existing Big Creek/San Joaquin Valley RAS
24305 BIG CRK8	230	24303 BIG CRK3	230	line_P6_201065_Line BIG CRK1 BIG CRK2 230.0 to BIG CRK3	230.0 to RECTOR 230.0 Circuit 1	P6	N-1-1	< 100	127.8	< 100	< 100	129.3	129.2	127.8	< 100	130.2	Existing Big Creek/San Joaquin Valley RAS
24402 ANTELOPE	66.0	24401 ANTELOPE	230	line_P6_205195_Line ANTELOPE ANTELOPE 66.00 to ANTELOPE	230.0 to PARDEE 230.00 Circuit 2	P6	N-1-1	< 100	< 100	102.7	< 100	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency
				line_P6_205197_Line ANTELOPE ANTELOPE 66.00 to ANTELOPE	230.0 to PARDEE 230.00 Circuit 4	P6	N-1-1	< 100	< 100	102.3	< 100	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency
				line_P6_205335_Line BAILEY ANTELOPE 66.00 to ANTELOPE	230.0 to PASTORIA 230.00 Circuit 2	P6	N-1-1	< 100	< 100	102.3	< 100	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency
				line_P6_205699_Line ANTELOPE ANTELOPE 66.00 to ANTELOPE	66.0 to NEENACH 230.00 Circuit 2	P6	N-1-1	< 100	< 100	102.8	< 100	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency
				line_P6_205701_Line ANTELOPE ANTELOPE 66.00 to ANTELOPE	66.0 to NEENACH 230.00 Circuit 4	P6	N-1-1	< 100	< 100	102.4	< 100	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency
				line_P6_205895_Line BAILEY ANTELOPE 66.00 to ANTELOPE	66.0 to TAP 85 230.00 Circuit 2	P6	N-1-1	< 100	< 100	105.2	< 100	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency

Study Area:

SCE Tehachapi &amp; Big Creek Corridor

Thermal Overloads



				line_P6_205897_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	< 100	< 100	104.8	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205923_Line NEENACH 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 100	< 100	103.3	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205925_Line NEENACH 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 100	< 100	102.9	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P6_207154_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2 0.00 Tran ANTELOPE 66.00 to ANTELOPE	P6	N-1-1	106.0	125.3	195.1	< 100	106.7	< 100	129.1	< 100	107.6	Energizing existing hot spare transformer after intial contingency
24402 ANTELOPE 66.0 24401 ANTELOPE 230 2 1				line_P6_205197_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 100	< 100	106.0	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205337_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 100	< 100	105.6	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205701_Line ANTELOPE 66.0 to NEENACH 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 100	< 100	106.1	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205894_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	< 100	< 100	107.1	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205897_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	< 100	< 100	108.6	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205925_Line NEENACH 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4	P6	N-1-1	< 100	< 100	106.7	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P3_109582_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4 0.00 Gen PSTRIAG2 18.0 Unit ID G2	P3	G-1/N-1	< 100	< 100	105.4	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P6_207128_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 1 0.00 Tran ANTELOPE 66.00 to ANTELOPE	P6	N-1-1	106.3	125.6	195.9	< 100	107.1	< 100	129.5	< 100	107.9	Energizing existing hot spare transformer after intial contingency
				tran_P6_207204_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	< 100	105.5	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P6_207205_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 4 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	< 100	105.6	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
24402 ANTELOPE 66.0 24401 ANTELOPE 230 4 1				line_P6_205195_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 100	< 100	105.6	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205335_Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 100	< 100	105.2	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205699_Line ANTELOPE 66.0 to NEENACH 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 100	< 100	105.7	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205894_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	< 100	< 100	106.3	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205895_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	< 100	< 100	108.2	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				line_P6_205923_Line NEENACH 66.0 to TAP 85 66.0 Circuit 1 Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2	P6	N-1-1	< 100	< 100	106.3	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P3_109392_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2 0.00 Gen PSTRIAG2 18.0 Unit ID G2	P3	G-1/N-1	< 100	< 100	105.0	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P6_207126_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 1 0.00 Tran ANTELOPE 66.00 to ANTELOPE	P6	N-1-1	106.3	125.6	195.7	< 100	107.0	< 100	129.4	< 100	107.8	Energizing existing hot spare transformer after intial contingency
				tran_P6_207155_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	< 100	105.1	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
				tran_P6_207156_Tran ANTELOPE 66.00 to ANTELOPE 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	< 100	105.2	< 100	< 100	< 100	< 100	< 100	Energizing existing hot spare transformer after intial contingency	
24402 ANTELOPE 66.0 24420 NEENACH 66.0 1 1				line_P6_202257_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	< 100	122.4	< 100	< 100	< 100	< 100	< 100	Split Antelope-Bailey 66 kV System per existing SCE operating procedure after initial contingency	
				tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	< 100	122.4	< 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_201988_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	< 100	< 100	100.4	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_201989_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	< 100	< 100	102.7	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202057_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	< 100	< 100	101.2	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202058_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	< 100	< 100	103.6	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
				line_P6_202324_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	100.9	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24420 NEENACH 66.0 24450 TAP 85 66.0 1 1				line_P6_202257_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	< 100	112.0	< 100	< 100	< 100	< 100	< 100	Split Antelope-Bailey 66 kV System per existing SCE operating procedure after initial contingency	



tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 100	< 100	111.9	< 100	< 100	< 100	< 100	< 100	< 100	Split Antelope-Bailey 66 kV System per existing SCE operating procedure after initial contingency
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Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)						Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2028 Summer-Off Peak	2025 Spring-Off Peak	2028 Spring-Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
ALAMO SC 66 kV	line_P6_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.12	1.14	0.9 < V < 1.1	0.9 < V < 1.1	1.10	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.12	1.14	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
ALPINE 66 kV	line_P6_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.84	0.9 < V < 1.1	0.9 < V < 1.1	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_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.84	0.9 < V < 1.1	0.9 < V < 1.1	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_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.76	0.9 < V < 1.1	1.12	1.15	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.76	0.9 < V < 1.1	1.13	1.15	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
NEENACH 66 kV	line_P6_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.84	0.9 < V < 1.1	0.9 < V < 1.1	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_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.84	0.9 < V < 1.1	0.9 < V < 1.1	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_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.12	1.14	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.12	1.14	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
TAP 85 66 kV	line_P6_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.11	1.13	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_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.76	0.9 < V < 1.1	1.11	1.13	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_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.12	1.14	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.9 < V < 1.1	1.12	1.14	0.9 < V < 1.1	0.9 < V < 1.1	1.11	system adjustments after first contingency mitigates the issue
WESTPAC 66 kV	line_P6_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.76	0.9 < V < 1.1	1.10	1.13	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_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.76	0.9 < V < 1.1	1.11	1.13	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_202257_Line PARDEE 230.0 to BAILEY 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	0.9 < V < 1.1	0.9 < V < 1.1	0.75	0.9 < V < 1.1	0.9 < V < 1.1	1.11	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue

2023-24 ISO Reliability Assessment - Preliminary Study Results

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

Voltage Deviation



Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)						Post Cont. Voltage Deviation % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2028 Summer-Off Peak	2025 Spring-Off Peak	2028 Spring-Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
ALAMO SC 66 kV	line_P6_202257_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	27.81	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	27.88	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
ALPINE 66 kV	line_P6_202257_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	20.53	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	20.55	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
BAILEY 66 kV	line_P6_202257_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	28.63	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	28.70	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
NEENACH 66 kV	line_P6_202257_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	20.53	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	20.55	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
OSO 66 kV	line_P6_202257_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	28.15	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	28.22	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
TAP 85 66 kV	line_P6_202257_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	28.12	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	28.18	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
TAP 86 66 kV	line_P6_202257_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	28.15	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	28.22	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
WESTPAC 66 kV	line_P6_202257_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	28.28	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
	tran_P6_207228_Tran BAILEY 66.00 to BAILEY 230.00 Circuit 2 0.00 Tran BAILEY 66.00 to BAILEY	P6	N-1-1	< 8	< 8	28.34	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue
BAILEY 230 kV	line_P6_202257_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	27.09	< 8	< 8	< 8	< 8	< 8	< 8	system adjustments after first contingency mitigates the issue

California ISO/IOP



### Study Area:

### Transient Stability

Westpac - Neenach-Bailey (Westpac-Bailey) Ckt 1 66 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Split Antelope-Bailey 66 KV System per existing SCE operating procedure after initial contingency
Westpac - Neenach-Bailey (Westpac-Neenach) Ckt 1 66 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Split Antelope-Bailey 66 KV System per existing SCE operating procedure after initial contingency
Antelope - Neenach Ckt 1 66 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Neenach - Antelope Ckt 1 66 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Vestal - Magunden Ckt 2 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Vestal - Magunden Ckt 1 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Springville - Magunden Ckt 2330 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Springville - Magunden Ckt 1 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria - Pardee - Warne (Pastoria-Pardee) 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria - Pardee - Warne (Pastoria-Warne) 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee - Pastoria - Warne (Pardee-Pastoria) 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee - Pastoria - Warne (Pardee-Warne) 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Warne - Pastoria - Pardee (Warne-Pastoria) 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Warne - Pastoria - Pardee (Warne-Pardee) 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria - Pardee Ckt 1 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria - Edmonston 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee - Pastoria Ckt 1 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden - Vestal Ckt 2 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden - Vestal Ckt 1 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden - Springville Ckt 2 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden - Springville Ckt 1 230 KV	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
BIG CREEK 1-RECTOR and BIG CREEK 3-RECTOR NO. 1	P6	N-1-1	No issues	Unstable	No issues	No issues	No issues	No issues	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 1-RECTOR and BIG CREEK 3-RECTOR NO. 1 - BC/SJV RAS armed to trip Eastwood and Mammoth	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Big Creek 3-Reactor No. 2 & Big Creek 1-Reactor	P6	N-1-1	No issues	Unstable	No issues	No issues	No issues	No issues	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
Big Creek 3-Reactor No. 2 & Big Creek 1-Reactor with RAS	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
BIG CREEK 3-RECTOR NO. 2 and BIG CREEK 4-SPRINGVILLE	P6	N-1-1	No issues	Unstable	No issues	No issues	No issues	No issues	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 3-RECTOR NO. 2 and BIG CREEK 4-SPRINGVILLE with RAS	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
BIG CREEK 4-SPRINGVILLE and RECTOR-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
BIG CREEK 4-SPRINGVILLE and RECTOR-SPRINGVILLE with RAS	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
RECTOR-VESTAL NOS. 1 & 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
RECTOR-VESTAL NOS. 1 & 2 with RAS	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NOS. 1 & 2	P6	N-1-1	No issues	Unstable	No issues	No issues	No issues	No issues	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
MAGUNDEN-SPRINGVILLE NOS. 1 & 2 with RAS	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-VESTAL NOS. 1 & 2	P6	N-1-1	Unstable	Unstable	No issues	Unstable	No issues	Unstable	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
MAGUNDEN-VESTAL NOS. 1 & 2 with RAS	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Big Creek 1-Reactor & Big Creek 3-Big Creek 8	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Vestal No. 1 & Rector-Springville	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Vestal No. 2 & Rector-Springville	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector-Vestal No. 1 & Magunden-Springville No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector-Vestal No. 2 & Magunden-Springville No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Vestal No. 1 & Magunden-Springville No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Vestal No. 2 & Magunden-Springville No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector-Vestal No. 1 & Rector-Springville	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector-Vestal No. 2 & Rector-Springville	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Big Creek 3-Reactor No. 1 & Rector-Springville	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Pastoria Nos. 1 & 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Pastoria Nos. 1 & 3	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Magunden-Pastoria Nos. 1 & 3	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pastoria and Pardee-Pastoria	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pastoria and Pardee-Pastoria-Warne	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Pastoria and Pardee-Pastoria-Warne	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Pastoria and Bailey-Pardee	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pardee and Pardee-Pastoria-Warne	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope-Magunden Nos. 1 and 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope-Magunden No. 1 & Pardee-Pastoria-Warne	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope-Magunden No. 2 & Pardee-Pastoria-Warne	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope-Pardee & Pardee-Pastoria-Warne	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pastoria & Bailey-Pardee	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Big Creek 1-Reactor & Big Creek 2-Big Creek 8	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope-Pardee & Bailey-Pastoria	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pardee & Pastoria-Edmonston	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pardee & Pastoria-Edmonston with mitigation	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pardee & Pastoria-Edmonston	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey-Pastoria & Pastoria-Edmonston with mitigation	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Vincent and Pardee-Vincent2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Vestal No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Vestal No. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Springville No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Springville No. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Pastoria No. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Pastoria No. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Magunden-Pastoria No. 3	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector SVC and Antelope-Magunden No. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
ANTELOPE-MAGUNDEN NO.2 & RECTOR-VESTAL NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-PASTORIA NO. 1 & MAGUNDEN-SPRINGVILLE NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
BIG CREEK 4-SPRINGVILLE & BIG CREEK 1-RECTOR	P6	N-1-1	Unstable	Unstable	No issues	No issues	No issues	No issues	Unstable	Unstable	No issues	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 4-SPRINGVILLE & BIG CREEK 1-RECTOR with mitigation	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NO. 1 & ANTELOPE-MAGUNDEN NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NO. 1 & BIG CREEK 4-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
BALLEY 1A & 2a	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & RECTOR-VESTAL NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & MAGUNDEN-PASTORIA NO. 3	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & MAGUNDEN-SPRINGVILLE NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & ANTELOPE-MAGUNDEN NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & RECTOR-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & BIG CREEK 4-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & BIG CREEK 3-RECTOR NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation



## Study Area:

SCE Tehachapi &amp; Big Creek Corridor



## Transient Stability

MAGUNDEN-OMAR & BIG CREEK 3-RECTOR NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & BIG CREEK 3-BIG CREEK 4	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & RECTOR SVC	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
ANTELOPE-MAGUNDEN NO. 2 & RECTOR-VESTAL NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-PASTORIA NO. 1 & MAGUNDEN-SPRINGVILLE NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-OMAR & PASTORIA-LEBEC	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
PASTORIA-LEBEC & MAGUNDEN-SPRINGVILLE NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
PASTORIA-LEBEC & MAGUNDEN-SPRINGVILLE NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
PASTORIA-LEBEC & MAGUNDEN-VESTAL NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
PASTORIA-LEBEC & RECTOR-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
PASTORIA-LEBEC & RECTOR-VESTAL NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
PASTORIA-LEBEC & RECTOR-VESTAL NO. 2	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NO. 1 & RECTOR-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NO. 1 & BIG CREEK 4-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NO. 1 & BIG CREEK 3-RECTOR NO. 2	P6	N-1-1	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	No Violation
BIG CREEK 4-SPRINGVILLE & RECTOR-VESTAL NO. 1	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
Big Creek 3 - Rector No.2 and Rector - Springville 230 kV	P7	DCTL	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Big Creek 3 - Rector No.1 and Big Creek 1 - Rector 230 kV	P7	DCTL	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	Existing Big Creek/San Joaquin Valley RAS
Magunden - Omar and Magunden - Vestal No.1 230 kV	P7	DCTL	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation

Study Area: SCE Tehachapi & Big Creek Corridor



Single Contingency Load Drop

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)									Potential Mitigation Solutions
			2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2028 Summer-Off Peak	2025 Spring-Off Peak	2028 Spring-Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	

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
	2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2028 Summer-Off Peak	2025 Spring-Off Peak	2028 Spring-Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	

No single source substation with more than 100 MW