2024-2025 ISO Reliability Assessment - Preliminary Study Results
Study Area: SCE Tehachapi & Big Creek Corridor
Thermal Overloads

California ISO

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)						Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2029 Summer-Off Peak	2026 Spring-Off Peak	2029 Spring-Off Peak	2029 SP High CEC Forecast	2026 SP Heavy Renewable & Min Gas Gen	2026 Spring Shoulder-Peak	
24087 MAGUNDEN 230 24401 ANTELOPE 230 1 1	line_P6_201254_Line BIG CRK1 230.0 to EASTWOOD 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	105.9	Existing Pastoria Energy Facility RAS
	line_P6_201698_Line MAMMOTH 230.0 to BIG CRK3 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	< 100	108.4	Existing Pastoria Energy Facility RAS
	line_P6_201703_Line MAMMOTH 230.0 to BIG CRK3 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	108.4	Existing Pastoria Energy Facility RAS
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	112.8	Existing Pastoria Energy Facility RAS
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	113.2	Existing Pastoria Energy Facility RAS
24087 MAGUNDEN 230 24401 ANTELOPE 230 2 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	< 100	< 100	< 100	103.1	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	< 100	< 100	< 100	101.5	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	< 100	< 100	< 100	109.1	Existing Pastoria Energy Facility RAS
24114 PARDEE 230 24115 PASTORIA 230 1 1	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	103.3	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202126_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	103.0	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202136_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	100.6	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202322_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	101.7	< 100	< 100	< 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	100.5	< 100	< 100	< 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	< 100	< 100	< 100	113.4	Existing Pastoria Energy Facility RAS
	line_P6_201985_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 1 Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	101.4	< 100	< 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	116.6	< 100	109.2	< 100	< 100	108.3	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	109.6	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202054_Line MAGUNDEN 230.0 to ANTELOPE 230.0 Circuit 2 Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	102.1	< 100	< 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	117.2	< 100	109.9	< 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	110.4	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202122_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1	P6	N-1-1	104.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 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	121.3	< 100	< 100	< 100	106.8	< 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	119.0	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202322_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	119.4	< 100	< 100	< 100	100.9	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202323_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	108.9	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24114 PARDEE 230 24403 BAILEY 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	< 100	< 100	< 100	109.7	Existing Pastoria Energy Facility RAS
24115 PASTORIA 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	< 100	< 100	< 100	122.3	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	108.4	< 100	105.2	< 100	< 100	117.2	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	105.6	< 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	109.0	< 100	105.9	< 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	106.3	< 100	< 100	< 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	113.0	< 100	< 100	< 100	< 100	< 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	110.7	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202322_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	111.2	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
	line_P6_202323_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	104.8	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS
24301 BIG CRK1 230 24235 RECTOR 230 1 1	line_P6_201306_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	< 100	104.4	104.1	104.5	< 100	< 100	104.4	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201309_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	< 100	121.3	120.8	121.6	< 100	< 100	121.3	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201463_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	< 100	101.0	100.2	100.9	< 100	< 100	101.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24302 BIG CRK2 230 24303 BIG CRK3 230 1 1	line_P6_201066_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	< 100	108.4	108.2	108.2	< 100	< 100	108.4	< 100	< 100	Congestion management and system re-dispatch after initial contingency
	line_P6_201069_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	< 100	124.5	124.2	124.1	< 100	< 100	124.6	< 100	102.2	Congestion management and system re-dispatch after initial contingency
24302 BIG CRK2 230 24305 BIG CRK8 230 1 1	line_P6_201065_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	< 100	109.0	108.8	108.8	< 100	< 100	109.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24303 BIG CRK3 230 24235 RECTOR 230 1 1	line_P6_200728_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	< 100	120.8	119.9	121.7	109.3	< 100	120.9	< 100	NotConv	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201068_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	< 100	106.9	106.0	106.6	< 100	< 100	107.0	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201073_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	112.1	143.5	136.7	138.9	123.9	< 100	138.3	105.3	132.7	Existing Big Creek/San Joaquin Valley RAS
	line_P6_201544_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	105.0	104.3	104.8	< 100	< 100	105.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS
24305 BIG CRK8 230 24303 BIG CRK3 230 1 1	line_P6_201065_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	< 100	125.9	125.6	125.6	102.0	< 100	126.0	< 100	104.9	Existing Big Creek/San Joaquin Valley RAS
24402 ANTELOPE 66.0 24401 ANTELOPE 230 1 1	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	104.8	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	108.3	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	107.9	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	104.9	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	131.3	159.1	199.8	102.2	118.2	< 100	164.7	< 100	131.3	congestion management and energizing existing spare transformer after intial contingency and shed load after the second contingency
24402 ANTELOPE 66.0 24401 ANTELOPE 230 2 1	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	108.2	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	110.3	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	111.8	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	108.3	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	131.7	159.4	200.3	102.5	118.6	< 100	165.0	< 100	131.7	congestion management and energizing existing spare transformer after intial contingency and shed load after the second contingency

24402 ANTELOPE 66.0 24401 ANTELOPE 230 4 1	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	107.8	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	109.5	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	111.4	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	107.9	< 100	< 100	< 100	< 100	< 100	< 100	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	131.6	159.4	200.2	102.4	118.5	< 100	165.0	< 100	131.6	congestion management and energizing existing spare transformer after intial contingency and shed load after the second 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	113.0	133.8	< 100	132.9	< 100	114.5	< 100	135.9	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	114.3	132.5	< 100	134.1	< 100	114.9	< 100	133.1	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
24403 BAILEY 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	< 100	< 100	< 100	100.9	Existing Pastoria Energy Faciity 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	108.2	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Faciity RAS
	line_P6_202126_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	109.8	< 100	< 100	< 100	< 100	< 100	System re-dispatch after initial contingency
	line_P6_202136_Line ANTELOPE 230.0 to PARDEE 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 100	< 100	< 100	107.4	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Faciity RAS
	line_P6_202323_Line PASTORIA 230.0 to EDMONSTN 230.0 Circuit 1 Line PARDEE 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 100	< 100	< 100	107.7	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Faciity 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	109.3	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Faciity RAS
24404 BAILEY 66.0 24452 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	123.1	119.8	120.2	119.4	< 100	< 100	120.8	125.7	< 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	120.6	118.8	125.2	119.5	< 100	< 100	121.0	123.3	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
24420 NEENACH 66.0 24452 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	143.4	138.8	138.8	139.6	115.3	< 100	140.3	131.6	118.0	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	143.5	139.2	142.1	139.7	116.3	< 100	142.0	131.8	115.4	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency

2024-2025 ISO Reliability Assessment - Preliminary Study Results
Study Area: SCE Tehachapi & Big Creek Corridor
High/Low Voltages

California ISO

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)						Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2029 Summer-Off Peak	2026 Spring-Off Peak	2029 Spring-Off Peak	2029 SP High CEC Forecast	2026 SP Heavy Renewable & Min Gas Gen	2026 Spring Shoulder-Peak	
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	0.54	0.55	0.47	0.59	0.9 < V < 1.1	0.9 < V < 1.1	0.53	0.62	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	0.52	0.54	0.54	0.59	0.9 < V < 1.1	0.9 < V < 1.1	0.55	0.59	0.9 < V < 1.1	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	0.79	0.78	0.73	0.81	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.84	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	0.77	0.77	0.77	0.81	0.9 < V < 1.1	0.9 < V < 1.1	0.78	0.82	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	0.54	0.55	0.48	0.58	0.9 < V < 1.1	0.9 < V < 1.1	0.53	0.62	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	0.52	0.54	0.54	0.58	0.9 < V < 1.1	0.9 < V < 1.1	0.54	0.59	0.9 < V < 1.1	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	0.79	0.78	0.73	0.81	0.9 < V < 1.1	0.9 < V < 1.1	0.77	0.84	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	0.77	0.77	0.76	0.81	0.9 < V < 1.1	0.9 < V < 1.1	0.78	0.82	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	0.54	0.54	0.47	0.58	0.9 < V < 1.1	0.9 < V < 1.1	0.53	0.62	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	0.51	0.53	0.54	0.58	0.9 < V < 1.1	0.9 < V < 1.1	0.54	0.59	0.9 < V < 1.1	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	0.57	0.57	0.50	0.61	0.9 < V < 1.1	0.9 < V < 1.1	0.56	0.64	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	0.54	0.56	0.56	0.61	0.9 < V < 1.1	0.9 < V < 1.1	0.57	0.62	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	0.54	0.54	0.47	0.58	0.9 < V < 1.1	0.9 < V < 1.1	0.53	0.62	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	0.51	0.53	0.54	0.58	0.9 < V < 1.1	0.9 < V < 1.1	0.54	0.59	0.9 < V < 1.1	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	0.56	0.56	0.49	0.59	0.9 < V < 1.1	0.9 < V < 1.1	0.54	0.64	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	0.53	0.55	0.55	0.59	0.9 < V < 1.1	0.9 < V < 1.1	0.55	0.61	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
BAILEY 230 kV	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue
	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	0.53	0.53	0.47	0.56	0.9 < V < 1.1	0.9 < V < 1.1	0.52	0.60	0.9 < V < 1.1	system adjustments after first contingency mitigates the issue
BIG CRK3 230 kV	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
BIG CRK4 230 kV	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
EDMONSTN 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue
MAGUNDEN 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.88	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.84	system adjustments after first contingency mitigates the issue
OMAR 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.88	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.84	system adjustments after first contingency mitigates the issue
PASTORIA 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue
PSTRIA 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.90	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue
RECTOR 230 kV	line_P6_201073_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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.84	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.87	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.82	system adjustments after first contingency mitigates the issue
	line_P6_201073_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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue

RECTRSVC 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.9 < V < 1.1	0.84	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.87	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.83	system adjustments after first contingency mitigates the issue
	line_P6_200759_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.87	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.87	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.88	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.82	system adjustments after first contingency mitigates the issue
SYC CYN 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.9 < V < 1.1	0.88	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.84	system adjustments after first contingency mitigates the issue
TOT833_S 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.90	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue
TOT896_H 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.88	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.83	system adjustments after first contingency mitigates the issue
VESTAL 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 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	0.9 < 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	0.9 < V < 1.1	0.86	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.88	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.89	system adjustments after first contingency mitigates the issue
	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.83	system adjustments after first contingency mitigates the issue
WARNE 230 kV	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue
WARNETAP 230 kV	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	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	0.9 < V < 1.1	0.9 < V < 1.1	0.9 < V < 1.1	0.85	system adjustments after first contingency mitigates the issue

2024-2025 ISO Reliability Assessment - Preliminary Study Results
Study Area: SCE Tehachapi & Big Creek Corridor
Voltage Deviation

California ISO

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
				2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2029 Summer-Off Peak	2026 Spring-Off Peak	2029 Spring-Off Peak	2029 SP High CEC Forecast	2026 SP Heavy Renewable & Min Gas Gen	2026 Spring Shoulder-Peak	
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	47.14	47.09	54.23	42.90	< 8	< 8	48.92	38.59	< 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	49.64	48.34	47.43	42.90	< 8	< 8	47.42	41.61	< 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	22.90	23.85	29.16	20.83	< 8	< 8	24.82	18.17	< 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	24.69	24.51	25.34	20.80	< 8	< 8	24.16	19.97	< 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	47.32	47.43	54.12	43.26	< 8	< 8	49.19	38.93	< 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	49.88	48.65	47.84	43.26	< 8	< 8	47.93	41.92	< 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	23.19	24.15	29.41	21.09	< 8	< 8	25.13	18.40	< 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	24.98	24.81	25.60	21.06	< 8	< 8	24.47	20.20	< 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	47.43	47.42	54.54	43.17	< 8	< 8	49.26	38.82	< 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	49.92	48.66	47.79	43.17	< 8	< 8	47.77	41.82	< 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	44.24	44.48	50.90	40.45	< 8	< 8	46.13	36.17	< 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	46.73	45.63	45.16	40.45	< 8	< 8	45.07	39.00	< 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	47.41	47.41	54.51	43.17	< 8	< 8	49.24	38.81	< 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	49.90	48.65	47.77	43.16	< 8	< 8	47.76	41.81	< 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	44.07	44.31	50.60	40.36	< 8	< 8	45.93	36.17	< 8	system adjustments after first contingency mitigates the issue
	line_P6_203521_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	9.39	< 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	46.58	45.47	44.84	40.36	< 8	< 8	44.87	38.99	< 8	system adjustments after first contingency mitigates the issue
BAILEY 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	12.79	system adjustments after first contingency mitigates the issue
	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	46.34	46.24	53.02	42.13	< 8	< 8	47.97	38.65	< 8	system adjustments after first contingency mitigates the issue
BIG CRK1 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.42	system adjustments after first contingency mitigates the issue
BIG CRK2 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.57	system adjustments after first contingency mitigates the issue
BIG CRK3 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	12.08	system adjustments after first contingency mitigates the issue
BIG CRK4 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.12	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	12.26	system adjustments after first contingency mitigates the issue
BIG CRK8 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.62	system adjustments after first contingency mitigates the issue
EASTWOOD 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.12	system adjustments after first contingency mitigates the issue
EDMONSTN 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.79	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.37	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.48	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.40	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.96	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.55	system adjustments after first contingency mitigates the issue
MAGUNDEN 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.17	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.04	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.15	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.40	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.69	system adjustments after first contingency mitigates the issue
MAMMOTH 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	12.05	system adjustments after first contingency mitigates the issue
OMAR 230 kV	line_P6_200759_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.02	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.17	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.05	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.15	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.47	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.40	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.69	system adjustments after first contingency mitigates the issue
PASTORIA 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.79	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.36	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.47	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.39	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.96	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.55	system adjustments after first contingency mitigates the issue
PSTRIA 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.75	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.33	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.44	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.36	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.92	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.52	system adjustments after first contingency mitigates the issue
RECTOR 230 kV	line_P6_201073_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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.64	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	13.33	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.27	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.83	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.50	system adjustments after first contingency mitigates the issue
RECTRSVC 230 kV	line_P6_201073_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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.61	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	13.29	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.23	system adjustments after first contingency mitigates the issue

	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.80	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.46	system adjustments after first contingency mitigates the issue
SPRINGVL 230 kV	line_P6_200759_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.75	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.37	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.58	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.50	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	13.78	system adjustments after first contingency mitigates the issue
SYC CYN 230 kV	line_P6_200759_Line SPRINGVL 230.0 to BIG CRK4 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.02	system adjustments after first contingency mitigates the issue
	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.17	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.05	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.15	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.47	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.40	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.69	system adjustments after first contingency mitigates the issue
TOT833_S 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.72	system adjustments after first contingency mitigates the issue
	line_P6_201704_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.30	system adjustments after first contingency mitigates the issue
	line_P6_201713_Line MAMMOTH 230.0 to BIG CRK3 230.0 Circuit 1 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.40	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.33	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.88	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.49	system adjustments after first contingency mitigates the issue
TOT896_H 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.74	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.09	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.03	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.16	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.52	system adjustments after first contingency mitigates the issue
VESTAL 230 kV	line_P6_201081_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line BAILEY 230.0 to PASTORIA 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	11.75	system adjustments after first contingency mitigates the issue
	line_P6_201083_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line PARDEE 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10.10	system adjustments after first contingency mitigates the issue
	line_P6_201920_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line PASTORIA 230.0 to WARNETAP 230.0 Circuit 1	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.03	system adjustments after first contingency mitigates the issue
	line_P6_201929_Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 2 Line Pardee - Pastoria - Warne 230 kV line	P6	N-1-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9.16	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	14.53	system adjustments after first contingency mitigates the issue
WARNE 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.34	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.35	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	13.59	system adjustments after first contingency mitigates the issue
WARNETAP 230 kV	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.35	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8.35	system adjustments after first contingency mitigates the issue
	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	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	13.60	system adjustments after first contingency mitigates the issue

2024-2025 ISO Reliability Assessment - Preliminary Study Results

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

Transient Stability

Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)						Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
			2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2029 Summer-Off Peak	2026 Spring-Off Peak	2029 Spring-Off Peak	2029 SP High CEC Forecast	2026 SP Heavy Renewable & Min Gas Gen	2026 Spring Shoulder-Peak	
MAGUNDEN-SPRINGVILLE NO. 1 230 kV	P1	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-SPRINGVILLE NO. 2 230 kV	P1	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-VESTAL NO. 1 230 kV	P1	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
MAGUNDEN-VESTAL NO. 2 230 kV	P1	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Sylmar No. 2 and Pardee-Moorpark No. 3 220 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Sylmar No. 1 and Pardee-Moorpark No. 2 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Saugus 1A and Pardee-Moorpark No. 4 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee leg of the Pardee-Pastoria-Warne and Pardee-Santa Clara 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Vincent No.1 and Pardee-Pastoria 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Bailey and Pardee-Vincent No. 2 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	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 Rector-Vestal No.2 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	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 Rector-Vestal No.1 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Lebec and Pastoria-Edmonston 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Magunden No.1 and Pastoria-Bailey 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Magunden No.2 and Pastoria-Pardee 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Pardee-Warne and Pastoria-Magunden No.3 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	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 Magunden - Springville No. 2 230 kV and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Big Creek 2-Big Creek 8 & Big Creek 3-Big Creek 8 and Loss of Rector SVC	P2	Line Section w/o Fault	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Sylmar No. 2 and Pardee-Moorpark No. 3 220 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Sylmar No. 1 and Pardee-Moorpark No. 2 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Saugus 1A and Pardee-Moorpark No. 4 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee leg of the Pardee-Pastoria-Warne and Pardee-Santa Clara 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Vincent No.1 and Pardee-Pastoria 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pardee-Bailey and Pardee-Vincent No. 2 230 kV	P4	N-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.1 and Rector-Vestal No.2 230 kV	P4	N-1	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 Rector-Vestal No.1 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Lebec and Pastoria-Edmonston 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Magunden No.1 and Pastoria-Bailey 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Magunden No.2 and Pastoria-Pardee 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Pastoria-Pardee-Warne and Pastoria-Magunden No.3 230 kV	P4	N-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 Magunden - Springville No. 2 230 kV	P4	N-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey 66 kv East Bus	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope 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
Bailey 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	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	No issues	WECC criteria not met	No issues	No issues	WECC criteria not met	WECC criteria not met	No issues	investigate options to address non redundant DC supply
Big Creek 2	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	investigate options to address non redundant DC supply
Big Creek 3	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	investigate options to address non redundant DC supply
Big Creek 4	P5	Non-Redundant Relay	WECC criteria not met	No issues	No issues	WECC criteria not met	WECC criteria not met	WECC criteria not met	No issues	WECC criteria not met	WECC criteria not met	investigate options to address non redundant DC supply
Big Creek 8	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	WECC criteria not met	No issues	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	investigate options to address non redundant DC supply
Magunden 230 kV	P5	Non-Redundant Relay	WECC criteria not met	No issues	No issues	No issues	No issues	No issues	No issues	WECC criteria not met	No issues	No Violation
Neenach 66 kV	P5	Non-Redundant Relay	No issues	No issues	No issues	WECC criteria not met	No issues	No issues	No issues	No issues	No issues	investigate options to address non redundant DC supply
Pardee 230 kV	P5	Non-Redundant Relay	WECC criteria not met	No issues	WECC criteria not met	No issues	No issues	No issues	No issues	WECC criteria not met	No issues	investigate options to address non redundant DC supply
Pastoria 230 kV	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	investigate options to address non redundant DC supply
Rector 230 kV	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	investigate options to address non redundant DC supply
Springville 230 kV	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	No issues	No issues	No issues	No issues	WECC criteria not met	WECC criteria not met	No issues	investigate options to address non redundant DC supply
Vestal 230 kV	P5	Non-Redundant Relay	WECC criteria not met	WECC criteria not met	No issues	No issues	No issues	No issues	WECC criteria not met	WECC criteria not met	No issues	investigate options to address non redundant DC supply
Big Creek 1 - Big Creek 2 220 kv Line (Non Redundant Trip Coil Big Creek 1 CB# 612)	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 220 kv Line (Non Redundant Trip Coil Big Creek 1 CB# 412)	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 - Eastwood 220 kv Line (Non Redundant Trip Coil Big Creek 1 CB# 412)	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 2 - Big Creek 1 220 kv Line (Non Redundant Trip Coil Big Creek 2 CB# 422)	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 2 - Big Creek 3 220 kv Line (Non Redundant Trip Coil Big Creek 2 CB# 412)	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 2 - Big Creek 8 220 kv Line (Non Redundant Trip Coil Big Creek 2 CB# 442)	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 4 - Big Creek 3 220 kv Line (Non Redundant Trip Coil Big Creek 4 CB# 412)	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 4 - Big Creek 3 220 kv Line (Non Redundant Trip Coil Big Creek 4 CB# 622)	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 4 - SpringVille 220 kv Line (Non Redundant Trip Coil Big Creek 4 CB# 412)	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 8 - Big Creek 2 220 kv Line (Non Redundant Trip Coil Big Creek 8 CB# 412)	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 8 - Big Creek 3 220 kv Line (Non Redundant Trip Coil Big Creek 8 CB# 422)	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 - Bailey 220 kv Line (Non Redundant Trip Coil Pastoria CB# 542)	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 220 kv Line (Non Redundant Trip Coil Pastoria CB# 552)	P5	Non-Redundant Relay	Unstable	No issues	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	investigate options to address non redundant DC supply
Pastoria - Lebec 220 kv Line (Non Redundant Trip Coil Pastoria CB# 552)	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 - Magunden No. 1 220 kv Line (Non Redundant Trip Coil Pastoria CB# 542)	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 - Magunden No. 2 220 kv Line (Non Redundant Trip Coil Pastoria CB# 532)	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 - Magunden No. 3 220 kv Line (Non Redundant Trip Coil Pastoria CB# 512)	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 220 kv Line (Non Redundant Trip Coil Pastoria CB# 532)	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 220 kv Line (Non Redundant Trip Coil Pastoria CB# 512)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector - Big Creek 1 220 kv Line (Non Redundant Trip Coil Rector CB# 5032)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector - Big Creek 3 No. 1 220 kv Line (Non Redundant Trip Coil Rector CB# 5042)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector - Big Creek 3 No. 2 220 kv Line (Non Redundant Trip Coil Rector CB# 4022)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector - Springville 220 kv Line (Non Redundant Trip Coil Rector CB# 5012)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector - Vestal No. 1 220 kv Line (Non Redundant Trip Coil Rector CB# 5032)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Rector - Vestal No. 2 220 kv Line (Non Redundant Trip Coil Rector CB# 5042)	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 No. 1 220 kv Line (Non Redundant Trip Coil Vestal CB# 452)	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 No. 2 220 kv Line (Non Redundant Trip Coil Vestal CB# 662)	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 - Rector No. 1 220 kv Line (Non Redundant Trip Coil Vestal CB# 412)	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 - Rector No. 2 220 kv Line (Non Redundant Trip Coil Vestal CB# 622)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Antelope - Neenach 66 kv Line (Non Redundant Trip Coil Antelope CB# 49)	P5	Non-Redundant Relay	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
Bailey - Neenach-Westpac 66 kv Line (Non Redundant Trip Coil Bailey CB# 120)	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 66 kv Line (Non Redundant Trip Coil Neenach CB# 10)	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 - Bailey-Westpac 66 kv Line (Non Redundant Trip Coil Neenach CB# 2)	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 - Bailey-Westpac (Neenach-Bailey) 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 - Bailey-Westpac (Neenach-Westpac) 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
Bailey - Neenach-Westpac (Bailey-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
Bailey - Neenach-Westpac (Bailey-Westpac) 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
Westpac - Neenach-Bailey (Westpac-Bailey) 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
Westpac - Neenach-Bailey (Westpac-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
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 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
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	Unstable	No issues	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	investigate options to address non redundant DC supply
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	Unstable	Unstable	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-Rector No. 2 & Big Creek 1-Rector	P6	N-1-1	No issues	Unstable	Unstable	Unstable	No issues	No issues	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
Big Creek 3-Rector No. 2 & Big Creek 1-Rector 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	Unstable	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	No issues	No issues	Unstable	No issues	No issues	No issues	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	No issues	No issues	No issues	Unstable	No issues	No issues	No issues	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-Rector & 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-Rector 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. 2 & 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	Unstable	Unstable	Unstable	Unstable	No issues	No issues	Unstable	Unstable	No issues	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
Big Creek 1-Rector & 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-Pastoria & 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	No issues	Unstable	Unstable	Unstable	No issues	No issues	Unstable	No issues	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	Unstable	No issues	No issues	No issues	No issues	No issues	Congestion management and system re-dispatch after initial contingency
BAILEY 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
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 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 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 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. 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 & 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 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 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 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 Violation
PASTORIA-LEBEC & 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

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 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 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 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 Violation
MAGUNDEN-SPRINGVILLE NO. 1 & BIG CREEK 4-SPRINGVILLE	P6	N-1-1	No issues	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Congestion management and system re-dispatch after initial contingency
MAGUNDEN-SPRINGVILLE NO. 1 & 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 Violation
BIG CREEK 4-SPRINGVILLE & RECTOR-VESTAL 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 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 Violation
Big Creek 3 - Rector No.1 and Big Creek 1 - Rector 230 kV	P7	DCTL	No issues	Unstable	Unstable	No issues	No issues	No issues	Unstable	No issues	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 Violation

2024-2025 ISO Reliability Assessment - Preliminary Study Results

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

Single Contingency Load Drop

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)									Potential Mitigation Solutions
			2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2029 Summer-Off Peak	2026 Spring-Off Peak	2029 Spring-Off Peak	2029 SP High CEC Forecast	2026 SP Heavy Renewable & Min Gas Gen	2026 Spring Shoulder-Peak	

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

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

Single Source Substation with more than 100 MW Load

Substation	Load Served (MW)									Potential Mitigation Solutions
	2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2029 Summer-Off Peak	2026 Spring-Off Peak	2029 Spring-Off Peak	2029 SP High CEC Forecast	2026 SP Heavy Renewable & Min Gas Gen	2026 Spring Shoulder-Peak	

No single source substation with more than 100 MW