2026-2027 ISO Reliability Assessment - 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
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
24087 MAGUNDEN 230 24115 PASTORIA 230 1 1	P6_188_P6 Loss of Magunden-Pastoria No.2 230 kV line and Magunden-Pastoria No.3 230 kV line	P6	N-1-1	120.1	< 100	< 100	< 100	< 100	124.0	134.3	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_200_P6 Loss of Magunden-Pastoria No.2 230 kV line and Pastoria-Pstria No.1 230 kV line	P6	N-1-1	101.1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_222_P6 Loss of Magunden-Pastoria No.2 230 kV line and Antelope-Pardee No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	102.6	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_291_P6 Loss of Magunden-Pastoria No.3 230 kV line and Pastoria-Pstria No.1 230 kV line	P6	N-1-1	101.5	< 100	< 100	< 100	< 100	102.0	< 100	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_313_P6 Loss of Magunden-Pastoria No.3 230 kV line and Antelope-Pardee No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	103.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
24087 MAGUNDEN 230 24115 PASTORIA 230 2 1	P6_108_P6 Loss of Magunden-Pastoria No.1 230 kV line and Pastoria-Pstria No.1 230 kV line	P6	N-1-1	101.8	< 100	< 100	< 100	< 100	102.2	< 100	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_130_P6 Loss of Magunden-Pastoria No.1 230 kV line and Antelope-Pardee No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	103.3	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_291_P6 Loss of Magunden-Pastoria No.3 230 kV line and Pastoria-Pstria No.1 230 kV line	P6	N-1-1	102.6	< 100	< 100	< 100	< 100	103.0	< 100	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_313_P6 Loss of Magunden-Pastoria No.3 230 kV line and Antelope-Pardee No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	104.1	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_96_P6 Loss of Magunden-Pastoria No.1 230 kV line and Magunden-Pastoria No.3 230 kV line	P6	N-1-1	120.5	< 100	< 100	< 100	< 100	124.5	134.8	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
24087 MAGUNDEN 230 24401 ANTELOPE 230 1 1	P6_1011_P6 Loss of Pardee-Warnetap No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	106.1	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_811_P6 Loss of Magunden-Antelope No.2 230 kV line and Pardee-Pastoria No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	108.4	< 100	< 100	< 100	106.0	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_812_P6 Loss of Magunden-Antelope No.2 230 kV line and Pardee-Warnetap No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	109.4	< 100	< 100	< 100	107.1	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_814_P6 Loss of Magunden-Antelope No.2 230 kV line and Pastoria-Warnetap No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	107.9	< 100	< 100	< 100	105.3	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_813_P6 Loss of Magunden-Antelope No.2 230 kV line and Pardee-Bailey No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	105.8	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_844_P6 Loss of Magunden-Antelope No.2 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	112.6	< 100	< 100	< 100	110.2	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_1011_P6 Loss of Pardee-Warnetap No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	143.9	124.0	113.7	< 100	< 100	< 100	< 100	118.7	113.2	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
24114 PARDEE 230 24115 PASTORIA 230 1 1	P6_1063_P6 Loss of Pardee-Bailey No.1 230 kV line and Pastoria-Warnetap No.1 230 kV line	P6	N-1-1	128.4	106.9	< 100	< 100	< 100	< 100	< 100	101.2	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_1174_P6 Loss of Pastoria-Warnetap No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	140.6	120.8	110.5	< 100	< 100	< 100	< 100	115.6	109.9	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_1254_P6 Loss of Pastoria-Edmonstn No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	103.3	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_2818_P6 Loss of Antelope-Pardee No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	101.0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_844_P6 Loss of Magunden-Antelope No.2 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	100.1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_980_P6 Loss of Pardee-Warnetap No.1 230 kV line and Pardee-Bailey No.1 230 kV line	P6	N-1-1	131.5	109.9	< 100	< 100	< 100	< 100	< 100	104.3	101.9	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_982_P6 Loss of Pardee-Warnetap No.1 230 kV line and Pastoria-Edmonstn No.1 230 kV line	P6	N-1-1	101.1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
24114 PARDEE 230 24217 WARNETAP 230 1 1	P6_897_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pardee-Bailey No.1 230 kV line	P6	N-1-1	120.5	100.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_928_P6 Loss of Pardee-Pastoria No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	131.8	113.6	104.2	< 100	< 100	< 100	< 100	108.8	103.7	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
24114 PARDEE 230 24403 BAILEY 230 1 1	P6_896_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pardee-Warnetap No.1 230 kV line	P6	N-1-1	128.0	105.7	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_898_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pastoria-Warnetap No.1 230 kV line	P6	N-1-1	124.9	102.7	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
24115 PASTORIA 230 24217 WARNETAP 230 1 1	P6_897_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pardee-Bailey No.1 230 kV line	P6	N-1-1	115.3	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_928_P6 Loss of Pardee-Pastoria No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	126.5	108.3	< 100	< 100	< 100	< 100	< 100	103.5	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
24141 SPRINGVL 230 24304 BIG CRK4 230 1 1	line_BCT_P7_02_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	< 100	< 100	< 100	< 100	< 100	< 100	101.5	< 100	103.8	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2193_P6 Loss of Rector-Big Crk3 No.2 230 kV line and Big Crk3-Rector No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	100.6	< 100	102.2	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2259_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk3-Rector No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	101.5	< 100	103.8	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
24215 SPRINGVL 66.0 24141 SPRINGVL 230 2 1	P6_4430_P6 Loss of Springvl No.3 66/230 kV transformer and Springvl No.4 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	120.1	< 100	< 100	< 100	< 100	< 100	System re-dispatch after initial contingency or shed load after the second contingency

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
24215 SPRINGVL 66.0 24141 SPRINGVL 230 3 1	P6_4422_P6 Loss of Springvl No.2 66/230 kV transformer and Springvl No.4 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	120.1	< 100	< 100	< 100	< 100	< 100	System re-dispatch after initial contingency or shed load after the second contingency
24215 SPRINGVL 66.0 24141 SPRINGVL 230 4 1	P6_4421_P6 Loss of Springvl No.2 66/230 kV transformer and Springvl No.3 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	120.2	< 100	< 100	< 100	< 100	< 100	System re-dispatch after initial contingency or shed load after the second contingency
24235 RECTOR 230 24303 BIG CRK3 230 2 1	line_BCT_P7_02_Line BIG CRK1 230.0 to RECTOR 230.0 Circuit 1 Line RECTOR 230.0 to BIG CRK3 230.0 Circuit 1	P7	DCTL	110.5	111.0	< 100	< 100	< 100	< 100	109.1	111.7	110.2	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2259_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk3-Rector No.1 230 kV line	P6	N-1-1	110.5	111.0	< 100	< 100	< 100	< 100	109.1	111.7	110.2	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
24269 TEHACHAPI 230 24270 TEHACHAPI 66.0 1 1	Base Case	P0	Base Case	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	105.5	Further investigation needed
24269 TEHACHAPI 230 24270 TEHACHAPI 66.0 2 1	Base Case	P0	Base Case	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	106.2	Further investigation needed
24301 BIG CRK1 230 24235 RECTOR 230 1 1	P6_1472_P6 Loss of Springvl-Big Crk4 No.1 230 kV line and Rector-Big Crk3 No.2 230 kV line	P6	N-1-1	107.8	107.4	< 100	< 100	< 100	< 100	108.0	107.3	109.4	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_1478_P6 Loss of Springvl-Big Crk4 No.1 230 kV line and Big Crk3-Rector No.1 230 kV line	P6	N-1-1	116.5	116.0	< 100	< 100	< 100	< 100	116.9	115.8	118.9	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2193_P6 Loss of Rector-Big Crk3 No.2 230 kV line and Big Crk3-Rector No.1 230 kV line	P6	N-1-1	132.9	133.2	< 100	< 100	< 100	< 100	130.8	133.9	131.6	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2450_P6 Loss of Big Crk2-Big Crk3 No.1 230 kV line and Big Crk2-Big Crk8 No.1 230 kV line	P6	N-1-1	110.3	108.7	< 100	< 100	103.6	106.1	110.3	108.6	109.0	System re-dispatch after initial contingency
	P6_2453_P6 Loss of Big Crk2-Big Crk3 No.1 230 kV line and Big Crk8-Big Crk3 No.1 230 kV line	P6	N-1-1	127.1	125.4	< 100	< 100	120.3	122.9	127.0	125.3	125.9	System re-dispatch after initial contingency
	P6_2575_P6 Loss of Big Crk3-Rector No.1 230 kV line and Big Crk4-Big Crk3 No.1 230 kV line	P6	N-1-1	104.6	104.5	< 100	< 100	100.3	< 100	< 100	< 100	< 100	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
24302 BIG CRK2 230 24303 BIG CRK3 230 1 1	P6_2258_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk2-Big Crk8 No.1 230 kV line	P6	N-1-1	109.3	107.7	< 100	< 100	107.9	110.0	109.3	107.6	107.9	System re-dispatch after initial contingency
	P6_2261_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk8-Big Crk3 No.1 230 kV line	P6	N-1-1	125.1	123.7	< 100	< 100	123.9	125.9	125.1	123.5	123.9	System re-dispatch after initial contingency
24302 BIG CRK2 230 24305 BIG CRK8 230 1 1	P6_2257_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk2-Big Crk3 No.1 230 kV line	P6	N-1-1	115.5	113.9	< 100	< 100	108.6	110.0	115.5	113.7	114.0	System re-dispatch after initial contingency
	P6_1472_P6 Loss of Springvl-Big Crk4 No.1 230 kV line and Rector-Big Crk3 No.2 230 kV line	P6	N-1-1	122.1	121.7	< 100	< 100	< 100	< 100	122.4	121.6	124.1	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_1473_P6 Loss of Springvl-Big Crk4 No.1 230 kV line and Big Crk1-Rector No.1 230 kV line	P6	N-1-1	123.4	123.2	< 100	< 100	120.2	119.3	123.8	123.1	126.5	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
24303 BIG CRK3 230 24235 RECTOR 230 1 1	P6_2188_P6 Loss of Rector-Big Crk3 No.2 230 kV line and Big Crk1-Rector No.1 230 kV line	P6	N-1-1	139.2	139.9	104.8	< 100	131.9	124.3	137.1	140.8	138.4	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2194_P6 Loss of Rector-Big Crk3 No.2 230 kV line and Big Crk4-Big Crk3 No.1 230 kV line	P6	N-1-1	108.8	108.8	< 100	< 100	104.4	104.9	108.7	108.7	109.8	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
	P6_2260_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk4-Big Crk3 No.1 230 kV line	P6	N-1-1	110.4	110.5	< 100	< 100	106.1	106.4	110.2	110.3	111.8	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
24305 BIG CRK8 230 24303 BIG CRK3 230 1 1	P6_2257_P6 Loss of Big Crk1-Rector No.1 230 kV line and Big Crk2-Big Crk3 No.1 230 kV line	P6	N-1-1	132.2	130.7	< 100	< 100	125.4	127.6	132.2	130.5	130.9	System re-dispatch after initial contingency
24401 ANTELOPE 230 24114 PARDEE 230 1 1	P6_3646_P6 Loss of Antelope-Vincent No.1 500 kV line and Antelope-Vincent No.2 500 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	112.7	< 100	< 100	System re-dispatch after initial contingency
24402 ANTELOPE 66.0 24401 ANTELOPE 230 1 1	P6_4032_P6 Loss of Antelope No.2 66/230 kV transformer and Antelope No.4 66/230 kV transformer	P6	N-1-1	124.9	108.7	148.7	117.4	106.9	< 100	< 100	119.7	107.3	Energizing existing spare transformer after intial contingency and/or shed load after the second contingency as needed
24402 ANTELOPE 66.0 24401 ANTELOPE 230 2 1	P6_4003_P6 Loss of Antelope No.1 66/230 kV transformer and Antelope No.4 66/230 kV transformer	P6	N-1-1	125.6	109.2	149.3	117.9	107.5	< 100	< 100	120.2	107.8	Energizing existing spare transformer after intial contingency and/or shed load after the second contingency as needed
24402 ANTELOPE 66.0 24401 ANTELOPE 230 4 1	P6_4001_P6 Loss of Antelope No.1 66/230 kV transformer and Antelope No.2 66/230 kV transformer	P6	N-1-1	125.9	109.1	150.0	120.4	107.4	< 100	< 100	120.1	107.4	Energizing existing spare transformer after intial contingency and/or shed load after the second contingency as needed
24402 ANTELOPE 66.0 24420 NEENACH 66.0 1 1	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	108.8	115.1	119.6	< 100	104.0	< 100	< 100	115.9	103.8	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	110.4	115.1	119.6	< 100	104.5	< 100	< 100	115.9	100.5	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
24403 BAILEY 230 24115 PASTORIA 230 1 1	P6_1005_P6 Loss of Pardee-Warnetap No.1 230 kV line and Antelope-Pardee No.1 230 kV line	P6	N-1-1	108.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_1145_P6 Loss of Pastoria-Warnetap No.1 230 kV line and Pastoria-Edmonstn No.1 230 kV line	P6	N-1-1	109.6	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_727_P6 Loss of Magunden-Antelope No.1 230 kV line and Pardee-Warnetap No.1 230 kV line	P6	N-1-1	107.7	101.0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_811_P6 Loss of Magunden-Antelope No.2 230 kV line and Pardee-Pastoria No.1 230 kV line	P6	N-1-1	106.5	100.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_812_P6 Loss of Magunden-Antelope No.2 230 kV line and Pardee-Warnetap No.1 230 kV line	P6	N-1-1	108.1	101.7	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_896_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pardee-Warnetap No.1 230 kV line	P6	N-1-1	148.9	130.8	120.6	100.8	< 100	< 100	< 100	125.9	118.1	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_898_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pastoria-Warnetap No.1 230 kV line	P6	N-1-1	145.5	127.6	117.3	< 100	< 100	< 100	< 100	122.8	114.7	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency

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	P6_899_P6 Loss of Pardee-Pastoria No.1 230 kV line and Pastoria-Edmonstn No.1 230 kV line	P6	N-1-1	110.3	100.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_922_P6 Loss of Pardee-Pastoria No.1 230 kV line and Antelope-Pardee No.1 230 kV line	P6	N-1-1	106.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
	P6_982_P6 Loss of Pardee-Warnetap No.1 230 kV line and Pastoria-Edmonstn No.1 230 kV line	P6	N-1-1	111.7	101.8	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
24404 BAILEY 66.0 24452 TAP 85 66.0 1 1	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	142.5	145.8	150.8	124.1	< 100	< 100	141.7	149.1	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	143.1	145.8	150.7	124.1	< 100	< 100	141.7	149.1	< 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	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	167.8	175.8	181.0	145.8	< 100	< 100	167.8	178.6	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
	P6_2818_P6 Loss of Antelope-Pardee No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	101.9	< 100	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	168.9	175.8	181.0	145.8	< 100	< 100	168.0	178.6	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
24435 WESTPAC 66.0 24452 TAP 85 66.0 1 1	Base Case	P0	Base Case	< 100	< 100	102.1	< 100	< 100	< 100	< 100	< 100	< 100	Further investigation needed
	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	< 100	102.7	< 100	< 100	< 100	< 100	< 100	103.7	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	< 100	102.8	< 100	< 100	< 100	< 100	< 100	103.8	< 100	Split Antelope–Bailey 66 kV System per existing SCE operating procedure after initial contingency
29399 WINDHUB_B 230 29505 windhb3i 13.8 3 1	P6_1816_P6 Loss of Vincent-Wirlwind No.3 500 kV line and Windhub No.4 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.4	< 100	< 100	Tehachapi CRAS
	P6_3741_P6 Loss of Antelope-Windhub No.1 500 kV line and Windhub No.4 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.5	< 100	< 100	Tehachapi CRAS
	P6_3814_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.4 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.9	< 100	< 100	Tehachapi CRAS
	P6_4235_P6 Loss of Windhub No.4 500/230 kV transformer and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.7	< 100	< 100	Tehachapi CRAS
	P6_4236_P6 Loss of Windhub No.4 500/230 kV transformer and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.7	< 100	< 100	Tehachapi CRAS
	P6_1815_P6 Loss of Vincent-Wirlwind No.3 500 kV line and Windhub No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.4	< 100	< 100	Tehachapi CRAS

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
29399 WINDHUB_B 230 29507 windhb4i 13.8 4 1	P6_3740_P6 Loss of Antelope-Windhub No.1 500 kV line and Windhub No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.5	< 100	< 100	Tehachapi CRAS
	P6_3813_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	110.9	< 100	< 100	Tehachapi CRAS
	P6_4214_P6 Loss of Windhub No.3 500/230 kV transformer and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.7	< 100	< 100	Tehachapi CRAS
	P6_4215_P6 Loss of Windhub No.3 500/230 kV transformer and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	109.7	< 100	< 100	Tehachapi CRAS
29401 WINDHUB 500 29505 windhb3i 13.8 3 1	P3_5765_P3 Loss of Fress2G1 Unit ID 1 and Windhub No.4 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5766_P3 Loss of Nortrsmdg1 Unit ID 1 and Windhub No.4 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5768_P3 Loss of Sbh5-G2 Unit ID 1 and Windhub No.4 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5769_P3 Loss of Tot892_G2_Pv Unit ID 1 and Windhub No.4 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5770_P3 Loss of Ph9_S20-Pv Unit ID 1 and Windhub No.4 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
29401 WINDHUB 500 29507 windhb4i 13.8 4 1	P3_5687_P3 Loss of Fress2G1 Unit ID 1 and Windhub No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5688_P3 Loss of Nortrsmdg1 Unit ID 1 and Windhub No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5690_P3 Loss of Sbh5-G2 Unit ID 1 and Windhub No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5691_P3 Loss of Tot892_G2_Pv Unit ID 1 and Windhub No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	P3_5692_P3 Loss of Ph9_S20-Pv Unit ID 1 and Windhub No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	107.7	< 100	< 100	Tehachapi CRAS
	Base Case	P0	Base Case	< 100	< 100	< 100	< 100	< 100	< 100	114.5	< 100	< 100	Further investigation needed
	P3_5921_P3 Loss of Fress2G1 Unit ID 1 and Windhub No.2 500/230 kV transformer	P3	G-1/N-1	131.4	112.9	< 100	< 100	< 100	< 100	193.2	< 100	< 100	Tehachapi CRAS
	P3_5922_P3 Loss of Nortrsmdg1 Unit ID 1 and Windhub No.2 500/230 kV transformer	P3	G-1/N-1	131.4	< 100	< 100	< 100	< 100	< 100	193.1	< 100	< 100	Tehachapi CRAS

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
29401 WINDHUB 500 29511 windhb1i 13.8 1 1	P3_5923_P3 Loss of Garlnd_G2 Unit ID 1 and Windhub No.2 500/230 kV transformer	P3	G-1/N-1	131.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P3_5926_P3 Loss of Ph9_S20-Pv Unit ID 1 and Windhub No.2 500/230 kV transformer	P3	G-1/N-1	< 100	113.0	< 100	< 100	< 100	113.1	193.2	112.6	< 100	Tehachapi CRAS
	P3_5927_P3 Loss of Nsr_Wnd1 Unit ID 1 and Windhub No.2 500/230 kV transformer	P3	G-1/N-1	131.4	112.9	< 100	< 100	< 100	113.1	< 100	< 100	< 100	Tehachapi CRAS
	P6_1286_P6 Loss of Pastoria-Edmonstn No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_1365_P6 Loss of Pastoria-Pstria No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_2906_P6 Loss of Antelope-Big Sky No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3456_P6 Loss of Mw_Wrlwnd_32-Wirlwind No.3 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3626_P6 Loss of Windhub_B-Highwind No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	193.2	< 100	< 100	Tehachapi CRAS
	P6_3816_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	112.9	Tehachapi CRAS
	P6_3851_P6 Loss of Highwind-Mandible No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	113.1	193.2	< 100	112.9	Tehachapi CRAS
	P6_4276_P6 Loss of Windhub No.2 500/230 kV transformer and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	112.5	< 100	Tehachapi CRAS
	P6_4277_P6 Loss of Windhub No.2 500/230 kV transformer and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	112.5	< 100	Tehachapi CRAS
	P6_4278_P6 Loss of Windhub No.2 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	112.5	< 100	Tehachapi CRAS
	P6_4288_P6 Loss of Windhub No.2 500/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	131.4	112.9	< 100	< 100	< 100	113.2	< 100	112.5	113.5	Tehachapi CRAS
	P6_4289_P6 Loss of Windhub No.2 500/230 kV transformer and Windhub No.3 66/230 kV transformer	P6	N-1-1	131.4	112.9	< 100	< 100	< 100	113.2	< 100	< 100	113.5	Tehachapi CRAS
	P6_75_P6 Loss of Magunden-Omar No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	112.9	Tehachapi CRAS
	Base Case	P0	Base Case	< 100	< 100	< 100	< 100	< 100	< 100	114.5	< 100	< 100	Further investigation needed

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
29401 WINDHUB 500 29513 windhb2i 13.8 2 1	P3_5843_P3 Loss of Fress2G1 Unit ID 1 and Windhub No.1 500/230 kV transformer	P3	G-1/N-1	131.4	112.9	< 100	< 100	< 100	< 100	193.2	< 100	< 100	Tehachapi CRAS
	P3_5844_P3 Loss of Nortrsmdg1 Unit ID 1 and Windhub No.1 500/230 kV transformer	P3	G-1/N-1	131.4	< 100	< 100	< 100	< 100	< 100	193.2	< 100	< 100	Tehachapi CRAS
	P3_5845_P3 Loss of Garlnd_G2 Unit ID 1 and Windhub No.1 500/230 kV transformer	P3	G-1/N-1	131.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P3_5848_P3 Loss of Ph9_S20-Pv Unit ID 1 and Windhub No.1 500/230 kV transformer	P3	G-1/N-1	< 100	113.0	< 100	< 100	< 100	113.1	193.2	112.6	< 100	Tehachapi CRAS
	P3_5849_P3 Loss of Nsr_Wnd1 Unit ID 1 and Windhub No.1 500/230 kV transformer	P3	G-1/N-1	131.4	112.9	< 100	< 100	< 100	113.1	< 100	< 100	< 100	Tehachapi CRAS
	P6_1285_P6 Loss of Pastoria-Edmonstn No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_1364_P6 Loss of Pastoria-Pstria No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_2905_P6 Loss of Antelope-Big Sky No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3455_P6 Loss of Mw_Wrlwnd_32-Wirlwind No.3 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3625_P6 Loss of Windhub_B-Highwind No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	193.2	< 100	< 100	Tehachapi CRAS
	P6_3815_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	112.9	Tehachapi CRAS
	P6_3850_P6 Loss of Highwind-Mandible No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	131.4	< 100	< 100	< 100	< 100	< 100	193.2	< 100	112.9	Tehachapi CRAS
	P6_4257_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	113.1	< 100	112.5	< 100	Tehachapi CRAS
	P6_4258_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	112.5	< 100	Tehachapi CRAS
	P6_4259_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	< 100	112.9	< 100	< 100	< 100	< 100	< 100	112.5	< 100	Tehachapi CRAS
	P6_4269_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	131.4	112.9	< 100	< 100	< 100	113.2	< 100	112.5	113.5	Tehachapi CRAS
	P6_4270_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.3 66/230 kV transformer	P6	N-1-1	131.4	112.9	< 100	< 100	< 100	113.2	< 100	< 100	113.5	Tehachapi CRAS

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
	P6_74_P6 Loss of Magunden-Omar No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	112.9	Tehachapi CRAS
29402 WIRLWIND 500 29509 wirlwn1i 13.8 1 1	P3_6080_P3 Loss of Sbh5-G2 Unit ID 1 and Wirlwind No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.6	< 100	< 100	Whirlwind RAS
	P3_6081_P3 Loss of Tot892_G2_Pv Unit ID 1 and Wirlwind No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.6	< 100	< 100	Whirlwind RAS
	P3_6082_P3 Loss of Ph9_S20-Pv Unit ID 1 and Wirlwind No.3 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.6	< 100	< 100	Whirlwind RAS
	P6_3853_P6 Loss of Highwind-Mandible No.1 230 kV line and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	104.6	< 100	< 100	Whirlwind RAS
	P6_4313_P6 Loss of Wirlwind No.3 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	167.0	112.8	143.4	174.3	< 100	133.8	211.3	112.8	< 100	Whirlwind RAS
29402 WIRLWIND 500 29515 wirlwn3i 13.8 3 1	P3_6002_P3 Loss of Sbh5-G2 Unit ID 1 and Wirlwind No.1 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.3	< 100	< 100	Whirlwind RAS
	P3_6003_P3 Loss of Tot892_G2_Pv Unit ID 1 and Wirlwind No.1 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.3	< 100	< 100	Whirlwind RAS
	P3_6004_P3 Loss of Ph9_S20-Pv Unit ID 1 and Wirlwind No.1 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.2	< 100	< 100	Whirlwind RAS
	P6_3852_P6 Loss of Highwind-Mandible No.1 230 kV line and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	104.2	< 100	< 100	Whirlwind RAS
	P6_4296_P6 Loss of Wirlwind No.1 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	167.0	112.8	143.4	174.4	< 100	130.7	211.4	112.8	< 100	Whirlwind RAS
29402 WIRLWIND 500 29522 wirlwn4i 13.8 4 1	P3_6002_P3 Loss of Sbh5-G2 Unit ID 1 and Wirlwind No.1 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.1	< 100	< 100	Whirlwind RAS
	P3_6003_P3 Loss of Tot892_G2_Pv Unit ID 1 and Wirlwind No.1 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.1	< 100	< 100	Whirlwind RAS
	P3_6004_P3 Loss of Ph9_S20-Pv Unit ID 1 and Wirlwind No.1 500/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	104.1	< 100	< 100	Whirlwind RAS
	P6_3852_P6 Loss of Highwind-Mandible No.1 230 kV line and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	104.1	< 100	< 100	Whirlwind RAS
	P6_4295_P6 Loss of Wirlwind No.1 500/230 kV transformer and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	167.0	112.8	143.4	174.4	< 100	130.7	211.4	112.8	< 100	Whirlwind RAS
	Base Case	P0	Base Case	< 100	< 100	< 100	< 100	< 100	< 100	115.4	< 100	< 100	Further investigation needed

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
29407 WINDHUB_A 230 29511 windhb1i 13.8 1 1	P6_1206_P6 Loss of Pastoria-Warnetap No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.1	Tehachapi CRAS
	P6_1365_P6 Loss of Pastoria-Pstria No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_1818_P6 Loss of Vincent-Wirlwind No.3 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.2	114.3	< 100	< 100	< 100	< 100	194.8	113.9	< 100	Tehachapi CRAS
	P6_2850_P6 Loss of Antelope-Pardee No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_2906_P6 Loss of Antelope-Big Sky No.1 230 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3456_P6 Loss of Mw_Wrlwnd_32-Wirlwind No.3 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	114.3	< 100	< 100	< 100	113.2	< 100	113.8	< 100	Tehachapi CRAS
	P6_3666_P6 Loss of Antelope-Vincent No.1 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3705_P6 Loss of Antelope-Vincent No.2 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3743_P6 Loss of Antelope-Windhub No.1 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.3	114.6	< 100	< 100	< 100	113.2	195.8	114.1	< 100	Tehachapi CRAS
	P6_3780_P6 Loss of Antelope-Wirlwind No.1 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.2	114.2	< 100	< 100	< 100	< 100	194.7	113.8	110.1	Tehachapi CRAS
	P6_3816_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.3	114.6	< 100	< 100	< 100	113.2	196.5	114.2	110.1	Tehachapi CRAS
	P6_4215_P6 Loss of Windhub No.3 500/230 kV transformer and Windhub No.2 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	113.2	< 100	< 100	< 100	Tehachapi CRAS
	P6_4236_P6 Loss of Windhub No.4 500/230 kV transformer and Windhub No.2 500/230 kV transformer	P6	N-1-1	133.2	114.2	< 100	< 100	< 100	113.2	194.6	< 100	< 100	Tehachapi CRAS
	P6_4276_P6 Loss of Windhub No.2 500/230 kV transformer and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_4277_P6 Loss of Windhub No.2 500/230 kV transformer and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_4278_P6 Loss of Windhub No.2 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_4288_P6 Loss of Windhub No.2 500/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.1	Tehachapi CRAS

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Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)						Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
	P6_4289_P6 Loss of Windhub No.2 500/230 kV transformer and Windhub No.3 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.1	Tehachapi CRAS
29407 WINDHUB_A 230 29513 windhb2i 13.8 2 1	Base Case	P0	Base Case	< 100	< 100	< 100	< 100	< 100	< 100	115.3	< 100	< 100	Further investigation needed
	P6_1205_P6 Loss of Pastoria-Warnetap No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.1	Tehachapi CRAS
	P6_1364_P6 Loss of Pastoria-Pstria No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_1817_P6 Loss of Vincent-Wirlwind No.3 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.2	114.3	< 100	< 100	< 100	< 100	194.7	113.9	< 100	Tehachapi CRAS
	P6_2849_P6 Loss of Antelope-Pardee No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_2905_P6 Loss of Antelope-Big Sky No.1 230 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3455_P6 Loss of Mw_Wrlwnd_32-Wirlwind No.3 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	114.3	< 100	< 100	< 100	113.2	< 100	113.8	< 100	Tehachapi CRAS
	P6_3665_P6 Loss of Antelope-Vincent No.1 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3704_P6 Loss of Antelope-Vincent No.2 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_3742_P6 Loss of Antelope-Windhub No.1 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.3	114.6	< 100	< 100	< 100	113.2	195.8	114.1	< 100	Tehachapi CRAS
	P6_3779_P6 Loss of Antelope-Wirlwind No.1 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.2	114.2	< 100	< 100	< 100	< 100	194.7	113.8	110.1	Tehachapi CRAS
	P6_3815_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.3	114.6	< 100	< 100	< 100	113.2	196.5	114.2	110.1	Tehachapi CRAS
	P6_4214_P6 Loss of Windhub No.3 500/230 kV transformer and Windhub No.1 500/230 kV transformer	P6	N-1-1	133.2	114.2	< 100	< 100	< 100	113.2	< 100	< 100	< 100	Tehachapi CRAS
	P6_4235_P6 Loss of Windhub No.4 500/230 kV transformer and Windhub No.1 500/230 kV transformer	P6	N-1-1	< 100	114.2	< 100	< 100	< 100	113.2	194.6	< 100	< 100	Tehachapi CRAS
	P6_4257_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_4258_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
	P6_4259_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	133.2	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Tehachapi CRAS
	P6_4269_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.1	Tehachapi CRAS
	P6_4270_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.3 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110.1	Tehachapi CRAS
29408 WIRLWIND 230 29509 wirlwn1i 13.8 1 1	P6_3745_P6 Loss of Antelope-Windhub No.1 500 kV line and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	107.3	< 100	< 100	Whirlwind RAS
	P6_3746_P6 Loss of Antelope-Windhub No.1 500 kV line and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	107.2	< 100	< 100	Whirlwind RAS
	P6_3818_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.7	< 100	< 100	Whirlwind RAS
	P6_3819_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.6	< 100	< 100	Whirlwind RAS
	P6_4313_P6 Loss of Wirlwind No.3 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	169.7	110.5	141.3	172.0	< 100	132.3	213.6	110.5	< 100	Whirlwind RAS
29408 WIRLWIND 230 29515 wirlwn3i 13.8 3 1	P6_3744_P6 Loss of Antelope-Windhub No.1 500 kV line and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.9	< 100	< 100	Whirlwind RAS
	P6_3746_P6 Loss of Antelope-Windhub No.1 500 kV line and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.5	< 100	< 100	Whirlwind RAS
	P6_3817_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.3	< 100	< 100	Whirlwind RAS
	P6_4257_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.1	< 100	< 100	Whirlwind RAS
	P6_4296_P6 Loss of Wirlwind No.1 500/230 kV transformer and Wirlwind No.4 500/230 kV transformer	P6	N-1-1	169.7	110.4	141.3	172.1	< 100	129.3	213.7	110.4	< 100	Whirlwind RAS
29408 WIRLWIND 230 29522 wirlwn4i 13.8 4 1	P6_3744_P6 Loss of Antelope-Windhub No.1 500 kV line and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.8	< 100	< 100	Whirlwind RAS
	P6_3745_P6 Loss of Antelope-Windhub No.1 500 kV line and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.4	< 100	< 100	Whirlwind RAS
	P6_3817_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.1	< 100	< 100	Whirlwind RAS
	P6_4257_P6 Loss of Windhub No.1 500/230 kV transformer and Wirlwind No.1 500/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	106.0	< 100	< 100	Whirlwind RAS

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				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
	P6_4295_P6 Loss of Wirlwind No.1 500/230 kV transformer and Wirlwind No.3 500/230 kV transformer	P6	N-1-1	169.7	110.4	141.3	172.1	< 100	129.3	213.7	110.4	< 100	Whirlwind RAS
29409 WINDHUB 66.0 29407 WINDHUB_A 230 2 1	P3_6966_P3 Loss of Mamoth2G Unit ID 2 and Windhub No.3 66/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.1	Tehachapi CRAS
	P3_6967_P3 Loss of Mamoth1G Unit ID 1 and Windhub No.3 66/230 kV transformer	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.1	Tehachapi CRAS
	P6_3830_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.3 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.2	Tehachapi CRAS
	P6_4270_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.3 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.7	Tehachapi CRAS
	P6_4289_P6 Loss of Windhub No.2 500/230 kV transformer and Windhub No.3 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.7	Tehachapi CRAS
29409 WINDHUB 66.0 29407 WINDHUB_A 230 3 1	P6_1533_P6 Loss of Springvl-Big Crk4 No.1 230 kV line and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.1	Tehachapi CRAS
	P6_3829_P6 Loss of Wirlwind-Windhub No.1 500 kV line and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.1	Tehachapi CRAS
	P6_4108_P6 Loss of Antelope No.4 66/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.1	Tehachapi CRAS
	P6_4269_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.7	Tehachapi CRAS
	P6_4288_P6 Loss of Windhub No.2 500/230 kV transformer and Windhub No.2 66/230 kV transformer	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	117.7	Tehachapi CRAS

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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
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
24404 BAILEY 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.72	0.66	0.62	0.66	0.79	0.9 < V < 1.05	0.73	0.64	0.79	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.72	0.66	0.62	0.66	0.80	0.9 < V < 1.05	0.73	0.64	0.84	system adjustments after first contingency mitigates the issue
24420 NEENACH 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.84	0.81	0.79	0.85	0.86	0.9 < V < 1.05	0.85	0.80	0.86	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.84	0.81	0.79	0.85	0.87	0.9 < V < 1.05	0.85	0.80	0.89	system adjustments after first contingency mitigates the issue
24435 WESTPAC 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.73	0.67	0.63	0.66	0.78	0.9 < V < 1.05	0.74	0.65	0.78	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.73	0.67	0.63	0.66	0.80	0.9 < V < 1.05	0.74	0.65	0.83	system adjustments after first contingency mitigates the issue
24451 TAP 86 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.72	0.67	0.63	0.66	0.79	0.9 < V < 1.05	0.74	0.65	0.79	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.73	0.67	0.63	0.67	0.81	0.9 < V < 1.05	0.74	0.65	0.84	system adjustments after first contingency mitigates the issue
24452 TAP 85 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.72	0.67	0.63	0.67	0.79	0.9 < V < 1.05	0.73	0.65	0.79	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.73	0.67	0.63	0.67	0.80	0.9 < V < 1.05	0.74	0.65	0.84	system adjustments after first contingency mitigates the issue
25621 OSO 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.72	0.67	0.63	0.66	0.79	0.9 < V < 1.05	0.74	0.65	0.79	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.73	0.67	0.63	0.67	0.81	0.9 < V < 1.05	0.74	0.65	0.84	system adjustments after first contingency mitigates the issue
25647 ALAMO SC 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.73	0.67	0.63	0.67	0.80	0.9 < V < 1.05	0.74	0.65	0.80	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.73	0.67	0.63	0.67	0.81	0.9 < V < 1.05	0.74	0.66	0.84	system adjustments after first contingency mitigates the issue
29897 ALPINE 66 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.84	0.81	0.79	0.85	0.86	0.9 < V < 1.05	0.85	0.80	0.86	system adjustments after first contingency mitigates the issue
	P6_4115_P6 Loss of Bailey No.2 66/230 kV transformer and Bailey No.3 66/230 kV transformer	P6	N-1-1	0.84	0.81	0.79	0.85	0.87	0.9 < V < 1.05	0.85	0.81	0.89	system adjustments after first contingency mitigates the issue
24403 BAILEY 230 kV	P6_1093_P6 Loss of Pardee-Bailey No.1 230 kV line and Bailey-Pastoria No.1 230 kV line	P6	N-1-1	0.70	0.64	0.61	0.65	0.78	0.9 < V < 1.05	0.71	0.63	0.79	system adjustments after first contingency mitigates the issue
24592 MW_VINCNT_22 500 kV	P6_4256_P6 Loss of Windhub No.1 500/230 kV transformer and Windhub No.2 500/230 kV transformer	P6	N-1-1	1.10	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	system adjustments after first contingency mitigates the issue
24595 MW_WRLWND_31 500 kV	P6_3725_P6 Loss of Antelope-Windhub No.1 500 kV line and Antelope-Wirlwind No.1 500 kV line	P6	N-1-1	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	0.9 < V < 1.05	1.10	0.9 < V < 1.05	system adjustments after first contingency mitigates the issue

Substation	Contingency	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)						Post Cont. Voltage Deviation % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	
No Voltage Deviations to report													

Contingency	Category	Category Description	Transient Stability Performance									Potential Mitigation Solutions
			Baseline Scenarios						Sensitivity Scenarios			
			2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 OP Sensitivity	
Magunden - Springville No.1 Fault: Magunden	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 Fault: Magunden	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 Fault: Magunden	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 Fault: Magunden	P1	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 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
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				WECC criteria not met		No issues		WECC criteria not met	investigate options to address non redundant DC supply
P5.b Neenach - Bailey-Westpac (Neenach-Bailey) Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Neenach - Bailey-Westpac (Neenach-Westpac) Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Bailey - Neenach-Westpac (Bailey-Neenach) Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Bailey - Neenach-Westpac (Bailey-Westpac) Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Westpac - Neenach-Bailey (Westpac-Bailey) Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Westpac - Neenach-Bailey (Westpac-Neenach) Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Antelope - Neenach Ckt 1 66 kV Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Neenach - Antelope Ckt 1 66 kV line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Vestal - Magunden Ckt 2 230 kv Line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Vestal - Magunden Ckt 1 230 kV line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Springville - Magunden Ckt 2 230 kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Springville - Magunden Ckt 1 230 kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pastoria - Pardee - Warne (Pastoria-Pardee) 230kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pastoria - Pardee - Warne (Pastoria-Warne) 230kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pardee - Pastoria - Warne (Pardee-Pastoria) 230kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pardee - Pastoria - Warne (Pardee-Warne) 230kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Warne - Pastoria - Pardee (Warne-Pastoria) 230kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Warne - Pastoria - Pardee (Warne-Pardee) 230kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pastoria - Pardee Ckt 1 230 kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pastoria - Edmonston 230 kV line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Pardee - Pastoria Ckt 1 230 kV line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Magunden - Vestal Ckt 2 230 kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Magunden - Vestal Ckt 1 230 kV line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Magunden - Springville Ckt 2 230 kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.b Magunden - Springville Ckt 1 230 kv line	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
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 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 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 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 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 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 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 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 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 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 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 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 Violation
Pastoria - Edmonston 220 kv Line (Non Redundant Trip Coil Pastoria CB# 552)	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 Violation
P5.3.13c Antelope 230 kV	P5	Non-Redundant Relay	No issues				WECC criteria not met		No issues		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Bailey 230 kV	P5	Non-Redundant Relay	No issues				WECC criteria not met		No issues		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Big Creek 1	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		Unstable		Unstable	investigate options to address non redundant DC supply
P5.3.13c Big Creek 2	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		Unstable		Unstable	investigate options to address non redundant DC supply
P5.3.13c Big Creek 3	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		Unstable		WECC criteria not met	investigate options to address non redundant DC supply

Contingency	Category	Category Description	Transient Stability Performance									Potential Mitigation Solutions
			Baseline Scenarios						Sensitivity Scenarios			
			2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 OP Sensitivity	
P5.3.13c Big Creek 4	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		WECC criteria not met		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Big Creek 8	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		Unstable		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Magunden 230 kV	P5	Non-Redundant Relay	No issues				No issues		No issues		No issues	No Violation
P5.3.13c Neenach 66 kV	P5	Non-Redundant Relay	No issues				No issues		No issues		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Pardee 230 kV	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		WECC criteria not met		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Pastoria 230 kV	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		WECC criteria not met		Unstable	investigate options to address non redundant DC supply
P5.3.13c Rector 230 kV	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		WECC criteria not met		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Springville 230 kV	P5	Non-Redundant Relay	WECC criteria not met				WECC criteria not met		WECC criteria not met		WECC criteria not met	investigate options to address non redundant DC supply
P5.3.13c Vestal 230 kV	P5	Non-Redundant Relay	No issues				WECC criteria not met		No issues		WECC criteria not met	investigate options to address non redundant DC supply
BIG CREEK 1-RECTOR and BIG CREEK 3-RECTOR NO. 1, FAULT BIG CREEK 1	P6	N-1-1	Unstable	Unstable	No issues	No issues	No issues	No issues	Unstable	Unstable	No issues	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 1-RECTOR and BIG CREEK 3-RECTOR NO. 1, FAULT BIG CREEK 1 - BC/SJV RAS armed	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	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	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, FAULT BIG CREEK 3	P6	N-1-1	Unstable	Unstable	No issues	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 3-RECTOR NO.2 and BIG CREEK 4-SPRINGVILLE, FAULT BIG CREEK 3 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, FAULT BIG CREEK 4	P6	N-1-1	No issues	No issues	Unstable	Unstable	No issues	No issues	No issues	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 4-SPRINGVILLE and RECTOR-SPRINGVILLE, FAULT BIG CREEK 4 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, FAULT RECTOR	P6	N-1-1	Unstable	Unstable	No issues	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Big Creek/San Joaquin Valley RAS
RECTOR-VESTAL NOS. 1 & 2, FAULT 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
MAGUNDEN-SPRINGVILLE NOS. 1 & 2, FAULT MAGUNDEN	P6	N-1-1	WECC criteria not met	No issues	WECC criteria not met	No issues	No issues	No issues	WECC criteria not met	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS
MAGUNDEN-SPRINGVILLE NOS. 1 & 2, FAULT MAGUNDEN 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, FAULT MAGUNDEN	P6	N-1-1	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Big Creek/San Joaquin Valley RAS
MAGUNDEN-VESTAL NOS. 1 & 2, FAULT MAGUNDEN 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, Fault Location: Rector	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, Fault Location: Rector	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, Fault Location: Rector	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, Fault Location: Rector	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, Fault Location: Rector	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, Fault Location: RECTOR	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, Fault Location: RECTOR	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, Fault Location: Rector	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, Fault Location: Rector	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, Fault Location: Rector	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, FAULT MAGUNDEN	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, FAULT MAGUNDEN	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, FAULT MAGUNDEN	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, FAULT Pastoria	P6	N-1-1	Unstable	Unstable	No issues	No issues	No issues	No issues	Unstable	Unstable	No issues	Existing Pastoria Energy Facility RAS
Bailey-Pastoria and Pardee-Pastoria-Warne, FAULT Pastoria	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS
Pardee-Pastoria and Pardee-Pastoria-Warne, FAULT Pastoria	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS
Pardee-Pastoria and Bailey-Pardee, FAULT Pardee	P6	N-1-1	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	No issues	Existing Pastoria Energy Facility RAS
Bailey-Pardee and Pardee-Pastoria-Warne, FAULT Pardee	P6	N-1-1	Unstable	Unstable	WECC criteria not met	WECC criteria not met	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS
Antelope-Magunden Nos. 1 and 2, FAULT Magunden	P6	N-1-1	Unstable	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	No issues	Existing Pastoria Energy Facility RAS
Antelope-Magunden No. 1 & Pardee-Pastoria-Warne, Fault Location: MAGUNDEN	P6	N-1-1	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS
Antelope-Magunden No. 2 & Pardee-Pastoria-Warne, Fault Location: MAGUNDEN	P6	N-1-1	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS
Antelope-Pardee & Pardee-Pastoria-Warne, Fault Location: PARDEE	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
Bailey-Pastoria & Bailey-Pardee, FAULT AT 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, Fault Location: Rector	P6	N-1-1	Unstable	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	No issues	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
Antelope-Pardee & Bailey-Pastoria, Fault Location: 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 & Pastoria-Edmonston, Fault Location: Pardee	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
Bailey-Pardee & Pastoria-Edmonston with mitigation, Fault Location: Pardee	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
Bailey-Pastoria & Pastoria-Edmonston, Fault Location: Pastoria	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
Bailey-Pastoria & Pastoria-Edmonston with mitigation, Fault Location: Pastoria	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Pastoria Energy Facility RAS and/or system redispatch after initial contingency
Pardee-Vincent and Pardee-Vincent2, Fault Location: Magunden	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, FAULT Magunden, Fault Location: Magunden	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, FAULT Magunden	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, FAULT Magunden	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, FAULT Magunden	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, FAULT Magunden	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, FAULT Magunden	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, FAULT Magunden	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, FAULT Magunden	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: RECTOR	P6	N-1-1	Unstable	Unstable	Unstable	No issues	Unstable	Unstable	Unstable	Unstable	Unstable	Existing Big Creek/San Joaquin Valley RAS
BIG CREEK 4-SPRINGVILLE & BIG CREEK 1-RECTOR with mitigation, Fault Location: RECTOR	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	P6	N-1-1	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
BAILEY 1A & 2a, Fault Location: BAILEY	P6	N-1-1	No issues	No issues	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	System redispatch after initial contingency
MAGUNDEN-OMAR & RECTOR-VESTAL NO. 1, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	P6	N-1-1	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation

Contingency	Category	Category Description	Transient Stability Performance									Potential Mitigation Solutions
			Baseline Scenarios						Sensitivity Scenarios			
			2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 OP Sensitivity	
MAGUNDEN-OMAR & RECTOR SVC, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	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, Fault Location: RECTOR	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, Fault Location: RECTOR	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, Fault Location: RECTOR	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, Fault Location: MAGUNDEN	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, Fault Location: MAGUNDEN	P6	N-1-1	No issues	Unstable	No issues	No issues	No issues	No issues	No issues	Unstable	No issues	Existing Big Creek/San Joaquin Valley RAS and/or system redispatch after initial contingency
MAGUNDEN-SPRINGVILLE NO. 1 & BIG CREEK 3-RECTOR NO. 2, Fault Location: MAGUNDEN	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, Fault Location: RECTOR	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 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	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No issues	No Violation
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

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)									Potential Mitigation Solutions
			2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 Spring OP Sensitivity	

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

Substation	Load Served (MW)									Potential Mitigation Solutions
	2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2028 SP Heavy Renewable & Min Gas Gen	2031 SP High CEC Forecast	2028 OP Sensitivity	

No single source substation with more than 100 MW