2026-2027 ISO Reliability Assessment - Study Results
Study Area: PG&E Central Coast & Los Padres
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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
TEMPLETON-14C1959SS 230kV	MORRO BAY-SOLAR SW STA #1 230KV and ESTRELLA-CALFLATSSS #1 230KV	P6	N-1-1	< 100	< 100	114	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MORROBAY-SOLARSS 230 KV LINE NO. 1 & 2	P7	DCTL	NA	NA	108	NA	NA	<100	NA	NA	<100	NA	NA	NA	Continue to monitor
	SOLAR SW STA 230KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	NA	NA	109	NA	NA	<100	NA	NA	<100	NA	NA	NA	Install redundant battery/relay supply
	MIDWAY-CALNTESS 230 KV LINE NO. 1 & 2	P7	DCTL	NA	NA	104	NA	NA	<100	NA	NA	<100	NA	NA	NA	Continue to monitor
	SOLARSS-CALNTESS 230 KV LINE NO. 1 & 2	P7	DCTL	NA	NA	105	NA	NA	<100	NA	NA	<100	NA	NA	NA	Continue to monitor
	CALIENTE 230KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	NA	NA	105	NA	NA	<100	NA	NA	<100	NA	NA	NA	Install redundant battery/relay supply
ESTRELLA-CALFLATSSS 230kV	MORRO BAY-SOLAR SW STA #1 230KV and TEMPLETON-14C1959SS #1 230KV	P6	N-1-1	< 100	< 100	114	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
GREEN VALLEY- MORGAN HILL 115kV	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Diverge	Install redundant battery/relay supply
SALINAS2-SALINAS1 60kV	SALINAS 115/60KV TB 3	P1	N-1	110	124	<100	<100	<100	<100	<100	<100	<100	<100	<100	126	Project: Salinas Area Reinforcement
	SALINAS 115KV SECTION 2D	P2	Bus	110	124	<100	<100	<100	<100	<100	<100	<100	<100	<100	126	Project: Salinas Area Reinforcement
	TOPAZGA2 0.69KV GEN UNIT 1 and SALINAS 115/60KV TB 3	P3	G-1/N-1	110	125	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	< 100	125	Project: Salinas Area Reinforcement
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	<100	<100	Diverge	<100	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	Diverge	<100	Diverge	Diverge	<100	<100	Diverge	<100	<100	Diverge	Install redundant battery/relay supply
	SALINAS 115/60KV TB 2 and SALINAS 115/60KV TB 3	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
TEMPLETON 230/70kV Transfromer	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORROBAY 230/115KV TB 6 and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
SAN MIGUEL- UNIONPGAE 70kV	SN LS OB 115/70KV TB 3	P1	N-1	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Off-Peak Only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Off-Peak Only
	SN LS OB 115KV SECTION MA	P2	Bus	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Off-Peak Only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Off-Peak Only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Off-Peak Only
	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	106	< 100	< 100	< 100	< 100	Off-Peak Only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Install redundant battery/relay supply
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	NA	<100	<100	NA	<100	<100	NA	110	<100	NA	NA	<100	Install redundant battery/relay supply
UNION TAP-PASO ROBLES 70kV	MORROBAY-ESTRELLA #1 230KV and TEMPLETON-14C1959SS #1 230KV	P6	N-1-1	< 100	< 100	148	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
ATASCADERO-CAYUCOS 70KV	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	134	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORRO BAY-MESA 230KV and MORROBAY 230/115KV TB 6	P6	N-1-1	< 100	< 100	Diverge	< 100	< 100	127	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	SISQUOC 1-2S 25.00KV GEN UNIT VS and MORROBAY 230/115KV TB 6	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	112	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
ATASCADERO-SAN LUIS OBISPO 70KV	MORRO BAY-TEMPLETON 230KV and TEMPLETON-GATES 230KV	P6	N-1-1	106	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	106	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
CABRILLO-SANTA YNEZ SW STA 115KV	MESA-SISQUOC 115KV and MESA_PGE-SNTA MRA 115KV	P6	N-1-1	203	166	Diverge	< 100	157	< 100	< 100	< 100	< 100	< 100	< 100	167	Mitigation under development
	MESA_PGE-SNTA MRA 115KV and MESA-SISQUOC 115KV	P6	N-1-1	152	171	< 100	< 100	160	< 100	< 100	< 100	< 100	< 100	< 100	172	Mitigation under development
	SISQUOC-SANTA YNEZ SW STA 115KV (SISQUOC-PALMR)	P2	Line Section w/o Fault	<100	<100	<100	<100	<100	102	<100	<100	<100	<100	<100	<100	Continue to monitor
	SISQUOC - MA 115KV & MESA-SISQUOC LINE	P2	Breaker	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	<100	<100	Continue to monitor
	SISQUOC - MA 115KV & SANTA MARIA-SISQUOC LINE	P2	Breaker	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	<100	<100	Continue to monitor
	SISQUOC - MA 115KV & SISQUOC-GAREY LINE	P2	Breaker	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MESA PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Mitigation under development
CALLENDER SW STA-MESA 115KV	MORROBAY 230/115KV TB 6	P1	N-1	132	<100	164	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	<100	<100	Diverge	<100	<100	148	176	Diverge	113	Diverge	Mitigation under development
	MORROBAY 230KV SECTION 1D	P2	Bus	135	<100	162	<100	<100	115	<100	<100	<100	<100	<100	101	Mitigation under development
	MORROBAY 230KV - SECTION 1D & 1E	P2	Breaker	127	<100	157	<100	<100	115	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	123	<100	154	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORRO BY 115KV SECTION 1D	P2	Bus	123	<100	153	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORROBAY 230KV - SECTION 2D & 1D	P2	Breaker	128	NA	NA	<100	NA	NA	<100	NA	NA	<100	<100	NA	Mitigation under development
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	115	<100	142	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	CALPOLYSLO 12.47KV GEN UNIT RN and MORROBAY 230/115KV TB 6	P3	G-1/N-1	132	< 100	163	< 100	100	163	< 100	< 100	< 100	< 100	< 100	<100	Mitigation under development
	MORRO BAY-MESA 230KV and MORROBAY 230/115KV TB 6	P6	N-1-1	113	< 100	Diverge	< 100	< 100	142	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	173	<100	<100	Diverge	<100	<100	143	166	152	102	173	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	164	<100	<100	Diverge	152	<100	140	149	144	<100	Diverge	Mitigation under development
	MORRO BAY-SAN LUIS OBISPO #1 AND #2 115 KV LINES	P7	DCTL	111	<100	136	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	NO BF RELAY MORRO BAY 115KV CB 112 OR 122	P5	Non-Redundant Battery/Relay	<100	<100	137	<100	<100	<100	<100	<100	<100	<100	<100	<100	Install redundant battery/relay supply
	MORRO BAY 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	137	<100	<100	<100	<100	<100	<100	<100	<100	<100	Install redundant battery/relay supply
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	<100	<100	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
CAMP EVERS-PAUL SWEET 115KV	CAMPEVERS_D1 21.60KV GEN UNIT RE and GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P3	G-1/N-1	< 100	< 100	< 100	< 100	100	158	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
	MOSS LANDING-GREEN VALLEY #1 115KV and GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P6	N-1-1	< 100	< 100	103	< 100	104	180	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P1	N-1	<100	<100	<100	<100	<100	157	<100	<100	<100	<100	<100	<100	Continue to monitor
	GREEN VALLEY-PAUL SWEET 115KV (GREENVALLEY-ROB ROY)	P2	Line Section w/o Fault	<100	<100	<100	<100	<100	157	<100	<100	<100	<100	<100	<100	Continue to monitor
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 3	P2	Breaker	<100	<100	<100	<100	<100	155	<100	<100	<100	<100	<100	<100	Continue to monitor
	GREEN VALLEY-PAUL SWEET 115KV (PAUL SWT-ROB ROY)	P2	Line Section w/o Fault	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	<100	<100	Continue to monitor
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON PAUL SWT_ROB ROY	P1	N-1	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	<100	<100	Continue to monitor
COALINGA #1-SAN MIGUEL 70KV	SN LS OB 115/70KV TB 3	P1	N-1	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Off-Peak Only
	PASO ROBLES-TEMPLETON 70KV	P1	N-1	101	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Estrella Substation Project
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Off-Peak Only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Off-Peak Only
	SN LS OB 115KV SECTION MA	P2	Bus	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Off-Peak Only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Off-Peak Only
	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	126	< 100	< 100	< 100	< 100	Off-Peak Only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Install redundant battery/relay supply
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	<100	<100	<100	<100	<100	<100	<100	125	<100	<100	<100	<100	Install redundant battery/relay supply
	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	102	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Install redundant battery/relay supply
	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	138	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Estrella Substation Project
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	<100	Install redundant battery/relay supply
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	<100	Diverge	Diverge	<100	Diverge	Diverge	<100	Install redundant battery/relay supply
	TEMPLETON-14C1959SS #1 230KV and ESTRELLA-CALFLATSSS #1 230KV	P6	N-1-1	< 100	< 100	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
COBURN 230/60KV TB 2	FAIRWAY 115/21KV TB 1 and COBURN 230/60KV TB 1	P6	N-1-1	< 100	< 100	< 100	< 100	118	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
COBURN-OIL FIELDS #1 60KV	COBURN-OIL FIELDS #2 60KV	P1	N-1	<100	<100	<100	<100	<100	<100	<100	133	<100	<100	<100	<100	Off-Peak Only
	SALINASRIVER 13.80KV GEN UNIT 1 and COBURN-OIL FIELDS #2 60KV	P3	G-1/N-1	< 100	117	< 100	< 100	134	< 100	< 100	< 100	< 100	< 100	< 100	118	Operating Solution
COBURN-OIL FIELDS #2 60KV	COBURN-OIL FIELDS #1 60KV	P1	N-1	<100	<100	NA	<100	<100	NA	<100	132	NA	<100	<100	<100	Off-Peak Only
	SALINASRIVER 13.80KV GEN UNIT 1 and COBURN-OIL FIELDS #1 60KV	P3	G-1/N-1	105	129	< 100	< 100	133	< 100	< 100	< 100	< 100	100	< 100	130	Operating Solution
CRAZY HORSE CANYON-SALINAS-SOLEDAD #1 115KV	SALINAS-MOSSLNSW-DOLAN RD 115KV and MOSS LANDING-SALINAS #2 115KV	P6	N-1-1	149	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	149	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Project: Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring
	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring
CRAZY HORSE CANYON-SALINAS-SOLEDAD #2 115KV	SALINAS-MOSSLNSW-DOLAN RD 115KV and MOSS LANDING-SALINAS #2 115KV	P6	N-1-1	149	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	149	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Project: Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring
	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring
DEL MONTE-FORT ORD #1 60KV	DEL MONTE-FORT ORD #2 60KV	P1	N-1	<100	128	139	<100	101	111	<100	<100	<100	<100	<100	131	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and DEL MONTE-FORT ORD #2 60KV	P3	G-1/N-1	< 100	128	139	< 100	126	140	< 100	< 100	< 100	< 100	< 100	131	Mitigation under development
DEL MONTE-FORT ORD #2 60KV	DEL MONTE-FORT ORD #1 60KV	P1	N-1	<100	128	138	<100	101	111	<100	<100	<100	<100	<100	130	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and DEL MONTE-FORT ORD #1 60KV	P3	G-1/N-1	< 100	128	138	< 100	126	140	< 100	< 100	< 100	< 100	< 100	130	Mitigation under development
DIABLO-MESA 230KV	MORROBAY 230/115KV TB 6 and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	< 100	Diverge	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
DIVIDE-CABRILLO #1 115KV	MESA_PGE-SNTA MRA 115KV and MESA-SISQUOC 115KV	P6	N-1-1	163	176	< 100	< 100	171	< 100	< 100	< 100	< 100	< 100	< 100	177	Operating Solution
GREEN VALLEY-CAMP EVERS 115KV	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P1	N-1	110	107	134	<100	<100	148	<100	<100	<100	<100	<100	111	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (GREENVALLEY-ROB ROY)	P2	Line Section w/o Fault	110	107	134	<100	<100	148	<100	<100	<100	<100	<100	111	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 3	P2	Breaker	109	107	132	<100	<100	147	<100	<100	<100	<100	<100	110	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P3	G-1/N-1	111	108	134	< 100	132	198	< 100	< 100	< 100	< 100	< 100	111	Mitigation under development
	MOSS LANDING-GREEN VALLEY #1 115KV and GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P6	N-1-1	127	110	145	< 100	132	220	< 100	< 100	< 100	< 100	< 100	114	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (PAUL SWT-ROB ROY)	P2	Line Section w/o Fault	<100	<100	117	<100	<100	103	<100	<100	<100	<100	<100	100	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON PAUL SWT_ROB ROY	P1	N-1	<100	<100	117	<100	<100	103	<100	<100	<100	<100	<100	100	Mitigation under development
	ROB ROY 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	<100	116	<100	<100	102	<100	<100	<100	<100	<100	100	Continue to monitor
	GREEN VALLEY-CAMP EVERS 115KV	P1	N-1	104	106	128	<100	<100	138	<100	<100	<100	<100	<100	110	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	117	108	132	<100	<100	141	<100	<100	<100	<100	<100	112	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and GREEN VALLEY-CAMP EVERS 115KV	P3	G-1/N-1	106	107	129	< 100	127	183	< 100	< 100	< 100	< 100	< 100	110	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	107	<100	121	<100	<100	108	<100	<100	<100	<100	<100	102	Mitigation under development
	GREEN VALLEY-CAMP EVERS 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	117	108	134	< 100	126	183	< 100	< 100	< 100	< 100	< 100	112	Mitigation under development

2026-2027 ISO Reliability Assessment - Study Results
Study Area: PG&E Central Coast & Los Padres
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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
GREEN VALLEY-PAUL SWEET 115KV	CAMPEVERS D1 21.60KV GEN UNIT RE and GREEN VALLEY-CAMP EVERS 115KV	P3	G-1/N-1	< 100	< 100	117	< 100	106	137	< 100	< 100	< 100	< 100	< 100	100	Mitigation under development
	GREEN VALLEY-CAMP EVERS 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	108	< 100	121	< 100	105	136	< 100	< 100	< 100	< 100	< 100	102	Mitigation under development
	GREEN VALLEY-CAMP EVERS 115KV	P1	N-1	<100	<100	116	<100	<100	106	<100	<100	<100	<100	<100	<100	Mitigation under development
	CAMP EVERS-PAUL SWEET 115KV	P1	N-1	<100	<100	<100	<100	<100	111	<100	<100	<100	<100	<100	<100	Continue to monitor
	GREEN VALLEY - CAMP EVERS & CAMP EVERS - PAUL SWEET 115 KV LINES	P7	DCTL	<100	<100	<100	<100	<100	111	<100	<100	<100	<100	<100	<100	Continue to monitor
	CAMP EVERS 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	<100	<100	<100	<100	111	<100	<100	<100	<100	<100	<100	Continue to monitor
	CMP EVRS 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	<100	<100	<100	111	<100	<100	<100	<100	<100	<100	Continue to monitor
	CMP EVRS 115KV SECTION 1D	P2	Bus	<100	<100	<100	<100	<100	111	<100	<100	<100	<100	<100	<100	Continue to monitor
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	<100	105	<100	<100	103	<100	<100	<100	<100	<100	<100	Mitigation under development
GREEN VALLEY-WATSONVILLE 60KV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	149	128	Diverge	163	159	161	170	165	159	Diverge	Install redundant battery/relay supply
	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	Diverge	< 100	< 100	135	< 100	< 100	130	< 100	< 100	115	130	< 100	Mitigation under development
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	<100	<100	105	<100	<100	129	<100	<100	116	130	<100	Mitigation under development
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	Diverge	<100	Diverge	Diverge	<100	Diverge	Diverge	<100	<100	Diverge	Install redundant battery/relay supply
GREENVALLEY 115/60KV TB 1	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	194	211	Diverge	272	209	220	235	215	209	Diverge	Install redundant battery/relay supply
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	Diverge	<100	Diverge	Diverge	<100	Diverge	Diverge	<100	<100	Diverge	Install redundant battery/relay supply
	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
MESA PGE 230/115KV TB 2	MESA PGE 230/115KV TB 3 and MORROBAY 230/115KV TB 6	P6	N-1-1	< 100	< 100	111	< 100	< 100	114	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
MESA PGE 230/115KV TB 3	MESA PGE 230/115KV TB 2 and MORROBAY 230/115KV TB 6	P6	N-1-1	112	< 100	129	< 100	< 100	132	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
MESA_PGE-SNTA MRA 115KV	SISQUOC 1-2S 25.00KV GEN UNIT VS and MORROBAY 230/115KV TB 6	P3	G-1/N-1	< 100	< 100	142	< 100	< 100	134	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	MORROBAY 230/115KV TB 6	P1	N-1	121	106	142	<100	<100	<100	<100	<100	<100	<100	<100	109	Mitigation under development
	MORROBAY 230KV SECTION 1D	P2	Bus	122	107	145	<100	<100	107	<100	<100	<100	<100	<100	110	Mitigation under development
	MORROBAY 230KV - SECTION 1D & 1E	P2	Breaker	118	101	139	<100	<100	107	<100	<100	<100	<100	<100	105	Mitigation under development
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	117	102	137	<100	<100	<100	<100	<100	<100	<100	<100	105	Mitigation under development
	MORRO BY 115KV SECTION 1D	P2	Bus	117	102	137	<100	<100	<100	<100	<100	<100	<100	<100	105	Mitigation under development
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	113	<100	132	<100	<100	<100	<100	<100	<100	<100	<100	101	Mitigation under development
	MESA - PGE - 2D 115KV & MESA-SISQUOC LINE	P2	Breaker	<100	101	121	<100	<100	<100	<100	<100	<100	<100	<100	104	Mitigation under development
	MORROBAY 230KV - SECTION 2D & 1D	P2	Breaker	118	NA	NA	<100	NA	NA	<100	NA	NA	<100	<100	NA	Mitigation under development
	MORRO BAY-MESA 230KV and MORROBAY 230/115KV TB 6	P6	N-1-1	111	< 100	Diverge	< 100	< 100	112	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	MESA-SISQUOC AND CALLENDER SW STA-MESA 115 KV LINES	P7	DCTL	105	107	134	<100	<100	<100	<100	<100	<100	<100	<100	110	Mitigation under development
	MORRO BAY-SAN LUIS OBISPO #1 AND #2 115 KV LINES	P7	DCTL	111	<100	129	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MESA-DIVIDE #1 AND #2 115 KV LINES	P7	DCTL	<100	113	112	<100	<100	<100	<100	<100	<100	<100	<100	117	Mitigation under development
	MORRO BAY 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	129	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	NO BF RELAY MORRO BAY 115KV CB 112 OR 122	P5	Non-Redundant Battery/Relay	<100	<100	129	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA-SISQUOC 115KV	P1	N-1	<100	<100	119	<100	<100	<100	<100	<100	<100	<100	<100	103	Continue to monitor
	DIVIDE 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	<100	107	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	DIVIDE-CABRILLO #1 AND #2 115 KV LINES	P7	DCTL	<100	<100	104	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	DIVIDE-CABRILLO #1 115KV	P1	N-1	<100	<100	107	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	Base Case	P0	Base Case	<100	<100	105	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDER SW STA-MESA 115KV	P1	N-1	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDER 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDAR SW STA 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	OCEANO-CALLENDER SW STA 115KV	P1	N-1	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MORROBAY-SOLARSS 230 KV LINE NO. 1 & 2	P7	DCTL	<100	<100	101	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
MESA-DIVIDE #1 115KV	SISQUOC-SANTA YNEZ SW STA 115KV and MESA-DIVIDE #2 115KV	P6	N-1-1	< 100	< 100	102	< 100	< 100	113	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MESA-DIVIDE #2 115KV	SISQUOC-SANTA YNEZ SW STA 115KV and MESA-DIVIDE #1 115KV	P6	N-1-1	< 100	< 100	102	< 100	< 100	113	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MESA-SISQUOC 115KV	MORROBAY 230/115KV TB 6 and MESA_PGE-SNTA MRA 115KV	P6	N-1-1	108	< 100	121	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	MESA-SANTA MARIA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	<100	103	108	<100	<100	<100	<100	<100	<100	<100	<100	106	Mitigation under development
MONTA VISTA-BURNS 60KV	Base Case	P0	Base Case	<100	<100	<100	<100	<100	163	<100	<100	<100	<100	<100	<100	Continue to monitor
	BURNS-LONE STAR #1 60KV (BURNS J1-L.STAR J)	P2	Line Section w/o Fault	<100	<100	<100	<100	<100	151	<100	<100	<100	<100	<100	<100	Continue to monitor
	BURNS-LONE STAR #1 60KV (BURNS-BURNS J1)	P2	Line Section w/o Fault	<100	<100	<100	<100	<100	151	<100	<100	<100	<100	<100	<100	Continue to monitor
	BURNS-LONE STAR #1 60KV	P1	N-1	<100	<100	<100	<100	<100	151	<100	<100	<100	<100	<100	<100	Continue to monitor
	BURNS-LONE STAR #2 60KV	P1	N-1	<100	<100	<100	<100	<100	107	<100	<100	<100	<100	<100	<100	Continue to monitor
MORRO BAY-DIABLO 230KV	MORROBAY 230/115KV TB 6 and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	< 100	Diverge	< 100	< 100	107	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
MORRO BAY-MESA 230KV	MORROBAY 230KV - SECTION 1D & 1E	P2	Breaker	107	<100	117	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORROBAY 230/115KV TB 6 and DIABLO-MESA 230KV	P6	N-1-1	105	< 100	120	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
MORRO BAY-SAN LUIS OBISPO #1 115KV	MORRO BAY-DIABLO 230KV and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	105	Diverge	< 100	Diverge	< 100	< 100	< 100	113	< 100	< 100	107	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	105	<100	<100	Diverge	156	<100	<100	103	<100	<100	Diverge	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	111	<100	<100	Diverge	<100	<100	<100	113	<100	<100	113	Mitigation under development
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	<100	<100	Diverge	<100	<100	<100	112	Diverge	<100	Diverge	Mitigation under development
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	<100	<100	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Mitigation under development
MORRO BAY-SOLAR SW STA #1 230KV	DIABLOCN1-2S 25.00KV GEN UNIT VS and MORRO BAY-SOLAR SW STA #2 230KV	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	123	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MORROBAY 230KV SECTION 2E	P2	Bus	<100	<100	<100	<100	<100	<100	<100	<100	107	<100	<100	<100	Continue to monitor
	SOLARSS 230KV - MIDDLE BREAKER BAY 2	P2	Breaker	<100	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	Continue to monitor
	TEMPLETON-14C1959SS #1 230KV and ESTRELLA-CALFLATSSS #1 230KV	P6	N-1-1	< 100	< 100	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MORRO BAY-SOLAR SW STA #2 230KV	DIABLOCN1-2S 25.00KV GEN UNIT VS and MORRO BAY-SOLAR SW STA #1 230KV	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	123	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MORROBAY 230KV SECTION 1E	P2	Bus	<100	<100	<100	<100	<100	<100	<100	<100	107	<100	<100	<100	Continue to monitor
	SOLARSS 230KV - MIDDLE BREAKER BAY 3	P2	Breaker	<100	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	Continue to monitor
	TEMPLETON-14C1959SS #1 230KV and ESTRELLA-CALFLATSSS #1 230KV	P6	N-1-1	< 100	< 100	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MORROBAY 230/115KV TB 6	CABALLEROBES 0.66KV GEN UNIT 1 and MORRO BAY-MESA 230KV	P3	G-1/N-1	< 100	< 100	129	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	113	<100	Diverge	<100	<100	<100	170	Diverge	122	Diverge	Mitigation under development
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	120	<100	<100	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MORROBAY 230KV - SECTION 2D & 2E	P2	Breaker	102	NA	NA	<100	NA	NA	<100	NA	NA	<100	<100	NA	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	178	121	<100	Diverge	202	<100	<100	164	156	<100	Diverge	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	178	119	<100	Diverge	<100	<100	<100	176	154	<100	180	Mitigation under development
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	120	Diverge	Diverge	Diverge	<100	<100	129	<100	<100	Diverge	Install redundant battery/relay supply
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	122	Diverge	Diverge	Diverge	<100	<100	127	<100	<100	Diverge	Mitigation under development
	MESA_PGE 115KV SECTION 1D	P2	Bus	<100	<100	136	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2	Breaker	<100	<100	133	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA PGE 230KV - MIDDLE BREAKER BAY 3	P2	Breaker	<100	<100	125	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MORRO BAY-MESA 230KV	P1	N-1	<100	<100	120	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MORROBAY 230KV SECTION 2E	P2	Bus	<100	<100	119	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	<100	<100	119	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA_PGE-SNTA MRA 115KV	P1	N-1	<100	<100	108	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA-SISQUOC AND CALLENDER SW STA-MESA 115 KV LINES	P7	DCTL	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDER SW STA-MESA 115KV	P1	N-1	<100	<100	108	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	OCEANO-CALLENDER SW STA 115KV	P1	N-1	<100	<100	108	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDER 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	CALLENDAR SW STA 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	TEMPLETON-ATASCADERO 70KV	P1	N-1	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA_PGE-SNTA MRA 115KV and MESA-SISQUOC 115KV	P6	N-1-1	< 100	< 100	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MOSS LANDING-CRAZY HORSE CANYON #1 115KV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	<100	<100	<100	<100	<100	109	<100	<100	<100	<100	<100	<100	Continue to monitor
MOSS LANDING-CRAZY HORSE CANYON #2 115KV	SALINAS-MOSSLNSW-DOLAN RD 115KV and MOSS LANDING-SALINAS #2 115KV	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	<100	<100	103	<100	<100	101	<100	<100	<100	<100	<100	<100	Continue to monitor
MOSS LANDING-DEL MONTE #1 115KV	MOSS LANDING-DEL MONTE #2 115KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	< 100	< 100	142	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MOSS LANDING-DEL MONTE #2 115KV	P1	N-1	<100	108	125	<100	<100	106	<100	<100	<100	<100	<100	111	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 2	P2	Breaker	<100	108	125	<100	<100	105	<100	<100	<100	<100	<100	112	Mitigation under development
	MOSS LANDING-DEL MONTE #2 115KV (CSTRVLJ2-DEL MNTE)	P2	Line Section w/o Fault	<100	108	125	<100	<100	106	<100	<100	<100	<100	<100	111	Mitigation under development
	MOSS LANDING-DEL MONTE #2 115KV (MOSSLNSW-CSTRVLJ2)	P2	Line Section w/o Fault	<100	108	124	<100	<100	105	<100	<100	<100	<100	<100	111	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and MOSS LANDING-DEL MONTE #2 115KV	P3	G-1/N-1	< 100	108	125	< 100	116	137	< 100	< 100	< 100	< 100	< 100	111	Mitigation under development
MOSS LANDING-DEL MONTE #2 115KV	MOSS LANDING-DEL MONTE #1 115KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	< 100	< 100	142	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	MOSS LANDING-DEL MONTE #1 115KV	P1	N-1	<100	108	125	<100	<100	106	<100	<100	<100	<100	<100	111	Mitigation under development
	MOSS LANDING-DEL MONTE #1 115KV (MOSSLNSW-CSTRVLJ1)	P2	Line Section w/o Fault	109	124	143	<100	102	122	<100	<100	<100	<100	<100	128	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 1	P2	Breaker	<100	109	125	<100	<100	106	<100	<100	<100	<100	<100	112	Mitigation under development
	MOSS LANDING-DEL MONTE #1 115KV (CSTRVLJ1-DEL MNTE)	P2	Line Section w/o Fault	<100	108	125	<100	<100	105	<100	<100	<100	<100	<100	111	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and MOSS LANDING-DEL MONTE #1 115KV	P3	G-1/N-1	< 100	108	125	< 100	116	137	< 100	< 100	< 100	< 100	< 100	111	Mitigation under development
	CASTROVILLE 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	108	125	<100	<100	106	<100	<100	<100	<100	<100	111	Install redundant battery/relay supply
MOSS LANDING-GREEN VALLEY #1 115KV	CAMPEVERS_D1 21.60KV GEN UNIT RE and MOSS LANDING-GREEN VALLEY #2 115KV	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	113	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MOSS LANDING-GREEN VALLEY #2 115KV	P1	N-1	<100	<100	<100	<100	104	132	<100	<100	<100	<100	<100	<100	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 6	P2	Breaker	<100	<100	<100	<100	101	128	<100	<100	<100	<100	<100	<100	Mitigation under development
	MOSS LANDING-GREEN VALLEY #2 115KV and GREENVALLEY-MRGN HIL #1 115KV	P6	N-1-1	< 100	< 100	112	< 100	102	149	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 4	P2	Breaker	<100	<100	<100	<100	<100	123	<100	<100	<100	<100	<100	<100	Continue to monitor
MOSS LANDING-GREEN VALLEY #2 115KV	MOSS LANDING-GREEN VALLEY #1 115KV	P1	N-1	105	<100	107	<100	106	135	<100	<100	<100	<100	<100	101	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	106	101	107	<100	107	136	<100	<100	<100	<100	<100	102	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	110	<100	108	<100	106	131	<100	<100	<100	<100	<100	101	Mitigation under development
	CAMPEVERS_D1 21.60KV GEN UNIT RE and MOSS LANDING-GREEN VALLEY #1 115KV	P3	G-1/N-1	106	< 100	107	< 100	108	127	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	<100	<100	Diverge	100	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	SALINAS 115/60KV TB 3 and SALINAS 115/60KV TB 2	P6	N-1-1	< 100	Diverge	< 100	< 100	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	Diverge	Mitigation under development

2026-2027 ISO Reliability Assessment - Study Results
Study Area: PG&E Central Coast & Los Padres
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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
MOSS LANDING-LAS AGUILAS SW STA - 230 KV 230KV	TEMPLETON-14C19595S #1 230KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	< 100	< 100	101	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 6	P2	Breaker	<100	<100	<100	<100	100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
MOSS LANDING-SALINAS #2 115KV	SALINAS-MOSSLNSW-DOLAN RD 115KV and MOSS LANDING-CRAZY HORSE CANYON #1 115KV MOAS OPENED ON PRNDL J1 PRUNEDLE	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	106	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MOSSLNSW 230/115KV TB 1	MOSSLNSW 230/115KV TB 4 and MOSSLNSW 230/115KV TB 2	P6	N-1-1	< 100	< 100	103	< 100	< 100	120	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MOSSLNSW 230/115KV TB 2	MOSSLNSW 230/115KV TB 4 and MOSSLNSW 230/115KV TB 3	P6	N-1-1	< 100	< 100	103	< 100	< 100	120	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MOSSLNSW 230/115KV TB 3	MOSSLNSW 230/115KV TB 4 and MOSSLNSW 230/115KV TB 1	P6	N-1-1	< 100	< 100	103	< 100	< 100	120	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
MOSSLNSW 230/115KV TB 4	MOSSLNSW 230/115KV TB 3 and MOSSLNSW 230/115KV TB 2	P6	N-1-1	105	< 100	114	< 100	107	129	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
OCEANO-CALLENDER SW STA 115KV	MORROBAY 230/115KV TB 6	P1	N-1	133	<100	166	<100	<100	<100	<100	<100	<100	<100	<100	100	Mitigation under development
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	<100	<100	Diverge	<100	<100	151	176	Diverge	114	Diverge	Mitigation under development
	MORROBAY 230KV SECTION 1D	P2	Bus	136	<100	171	<100	<100	115	<100	<100	<100	<100	<100	103	Mitigation under development
	MORROBAY 230KV - SECTION 1D & 1E	P2	Breaker	127	<100	159	<100	<100	115	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	124	<100	156	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORRO BY 115KV SECTION 1D	P2	Bus	123	<100	155	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	115	<100	143	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORROBAY 230KV - SECTION 2D & 1D	P2	Breaker	128	NA	NA	<100	NA	NA	<100	NA	NA	<100	<100	NA	Mitigation under development
	CALPOLYSLO 12.47KV GEN UNIT RN and MORROBAY 230/115KV TB 6	P3	G-1/N-1	132	< 100	165	< 100	102	163	< 100	< 100	< 100	< 100	< 100	< 100	Mitigation under development
	DIABLO-MESA 230KV and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	191	Diverge	< 100	Diverge	173	< 100	128	152	130	< 100	151	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	172	<100	<100	Diverge	<100	<100	146	169	154	104	172	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	163	<100	<100	Diverge	153	<100	143	152	147	<100	Diverge	Mitigation under development
	MORRO BAY-SAN LUIS OBISPO #1 AND #2 115 KV LINES	P7	DCTL	111	<100	139	<100	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation under development
	MORRO BAY 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	<100	139	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	NO BF RELAY MORRO BAY 115KV CB 112 OR 122	P5	Non-Redundant Battery/Relay	<100	<100	139	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	<100	<100	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	<100	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
SALINAS 115/60KV TB 2	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
SALINAS1-FIRESTNE 60KV	Base Case	P0	Base Case	133	126	NA	<100	<100	NA	<100	<100	NA	<100	<100	128	Project: Salinas Area Reinforcement
	SALINAS-SPENCE 60KV	P1	N-1	162	194	NA	<100	144	NA	<100	<100	NA	149	<100	197	Project: Salinas Area Reinforcement
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	<100	110	NA	<100	<100	NA	<100	<100	NA	<100	<100	110	Project: Salinas Area Reinforcement
	MLPB2CTG3 18.00KV & MLPB2CTG4 18.00KV & MLPB2STG2 18.00KV GEN UNITS and SALINAS-SPENCE 60KV	P3	G-1/N-1	162	194	< 100	< 100	179	< 100	< 100	< 100	< 100	149	< 100	196	Project: Salinas Area Reinforcement
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	<100	113	NA	<100	<100	NA	<100	<100	NA	<100	<100	115	Project: Salinas Area Reinforcement
SALINAS-LAGUNITAS 60KV	SALINAS-SPENCE 115KV and SALINAS-FIRESTONE #1 115KV	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	131	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	SALINAS 115KV - MIDDLE BREAKER BAY 1	P2	Breaker	NA	NA	<100	<100	NA	NA	104	NA	NA	<100	NA	NA	Continue to monitor
	Base Case	P0	Base Case	<100	<100	<100	<100	<100	113	<100	<100	<100	<100	<100	<100	Continue to monitor
SALINAS-LAURELES 60KV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	<100	<100	Diverge	<100	<100	<100	159	<100	<100	Diverge	Install redundant battery/relay supply
	SALINAS 115/60KV TB 2 and SALINAS 115/60KV TB 3	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	159	< 100	< 100	< 100	Continue to monitor
	Base Case	P0	Base Case	<100	<100	<100	<100	<100	<100	<100	<100	165	<100	<100	<100	Continue to monitor
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	<100	<100	<100	<100	<100	<100	<100	<100	143	<100	<100	<100	Continue to monitor
	LAURELES-OTTER 60KV	P1	N-1	<100	<100	<100	<100	<100	<100	<100	<100	114	<100	<100	<100	Continue to monitor
SALINAS-MOSSLNSW-DOLAN RD 115KV	MOSS LANDING-SALINAS #2 115KV and MOSS LANDING-CRAZY HORSE CANYON #1 115KV MOAS OPENED ON PRNDL J1 PRUNEDLE	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	106	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	<100	<100	103	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
SALINAS-SPENCE 60KV	Base Case	P0	Base Case	<100	115	NA	<100	<100	NA	<100	<100	NA	<100	<100	117	Project: Salinas Area Reinforcement
	SALINAS1-FIRESTNE 60KV	P1	N-1	165	199	NA	<100	149	NA	<100	<100	NA	152	<100	202	Project: Salinas Area Reinforcement
	SALINAS-SPENCE 60KV (2)	P1	N-1	157	190	NA	<100	143	NA	<100	<100	NA	144	<100	192	Project: Salinas Area Reinforcement
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	<100	102	NA	<100	<100	NA	<100	<100	NA	<100	<100	101	Project: Salinas Area Reinforcement
	MLPB2CTG3 18.00KV & MLPB2CTG4 18.00KV & MLPB2STG2 18.00KV GEN UNITS and SALINAS1-FIRESTNE 60KV	P3	G-1/N-1	165	199	< 100	<100	185	< 100	< 100	< 100	< 100	152	< 100	201	Project: Salinas Area Reinforcement
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	<100	104	NA	<100	<100	NA	<100	<100	NA	<100	<100	106	Project: Salinas Area Reinforcement
SALINAS-SPENCE 60KV (2)	SALINAS-SPENCE 60KV	P1	N-1	155	188	NA	<100	140	NA	<100	<100	NA	143	<100	191	Project: Salinas Area Reinforcement
	MLPB2CTG3 18.00KV & MLPB2CTG4 18.00KV & MLPB2STG2 18.00KV GEN UNITS and SALINAS-SPENCE 60KV	P3	G-1/N-1	157	188	< 100	< 100	174	< 100	< 100	< 100	< 100	143	< 100	190	Project: Salinas Area Reinforcement
SAN LUIS OBISPO-CAYUCOS 70KV	MORRO BAY-TEMPLETON 230KV and TEMPLETON-GATES 230KV	P6	N-1-1	108	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
	CALPOLYSLO 12.47KV GEN UNIT RN and ATASCADERO-CAYUCOS 70KV	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	111	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
SAN LUIS OBISPO-OCEANO 115KV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	<100	<100	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	<100	<100	Diverge	<100	<100	111	154	Diverge	104	Diverge	Mitigation under development
	MORRO BAY-DIABLO 230KV and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	162	Diverge	< 100	Diverge	< 100	< 100	< 100	147	116	< 100	164	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	168	<100	<100	Diverge	169	<100	105	134	129	<100	Diverge	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	171	<100	<100	Diverge	<100	<100	107	147	131	<100	173	Mitigation under development
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
SAN LUIS OBISPO-SANTA MARIA 115KV	MORROBAY 230KV SECTION 1D	P2	Bus	<100	<100	101	<100	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	<100	<100	Diverge	<100	101	154	205	Diverge	136	Diverge	Mitigation under development
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	103	<100	Diverge	<100	<100	116	<100	104	Diverge	Install redundant battery/relay supply
	MORRO BAY-DIABLO 230KV and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	212	Diverge	< 100	Diverge	< 100	< 100	137	196	160	114	214	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	219	<100	<100	Diverge	201	<100	146	178	172	120	Diverge	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	224	<100	<100	Diverge	<100	<100	149	196	176	128	225	Mitigation under development
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	196	<100	<100	Diverge	Install redundant battery/relay supply
	MESA PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	191	<100	<100	Diverge	Mitigation under development
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
SAN MIGUEL-PASO ROBLES 70KV	MORRO BAY-TEMPLETON 230KV and TEMPLETON-GATES 230KV	P6	N-1-1	113	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Estrella Substation Project
	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	112	NA	NA	<100	NA	NA	<100	NA	NA	<100	<100	NA	Estrella Substation Project
SANTA MARIA-SISQUOC 115KV	MORROBAY 230/115KV TB 6 and MESA_PGE-SNTA MRA 115KV	P6	N-1-1	< 100	< 100	111	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Mitigation under development
SISQUOC-SANTA YNEZ SW STA 115KV	MESA_PGE-SNTA MRA 115KV and MESA-SISQUOC 115KV	P6	N-1-1	239	126	< 100	< 100	121	< 100	< 100	< 100	< 100	< 100	< 100	127	Mitigation under development
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	101	<100	<100	Diverge	Install redundant battery/relay supply
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Mitigation under development
TEMBLOR-SAN LUIS OBISPO 115KV	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	<100	Diverge	<100	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	<100	<100	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MORROBAY 230KV - SECTION 1D & 1E	P2	Breaker	<100	116	<100	<100	<100	<100	<100	<100	<100	<100	<100	116	Mitigation under development
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	<100	<100	Diverge	<100	<100	130	<100	Diverge	<100	Diverge	Mitigation under development
	SOLAR SW STA 230KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	114	<100	<100	106	<100	<100	<100	<100	<100	<100	113	Install redundant battery/relay supply
	MORRO BAY-DIABLO 230KV and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	120	< 100	< 100	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	121	Mitigation under development
	MORROBAY-SOLARSS 230 KV LINE NO. 1 & 2	P7	DCTL	<100	115	<100	<100	113	<100	<100	103	<100	<100	<100	114	Mitigation under development
	SOLARSS-CALNTESS 230 KV LINE NO. 1 & 2	P7	DCTL	<100	108	<100	<100	<100	<100	<100	<100	<100	<100	<100	107	Mitigation under development
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	122	<100	<100	Diverge	<100	<100	<100	<100	<100	<100	122	Mitigation under development
	MIDWAY-CALNTESS 230 KV LINE NO. 1 & 2	P7	DCTL	<100	105	<100	<100	<100	<100	<100	<100	<100	<100	<100	103	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	121	<100	<100	Diverge	<100	<100	<100	<100	<100	<100	Diverge	Mitigation under development
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Mitigation under development
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	<100	Diverge	<100	Diverge	Diverge	Diverge	<100	<100	<100	<100	<100	Diverge	Install redundant battery/relay supply
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
TEMPLETON-ATASCADERO 70KV	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	149	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
	MORROBAY 230/115KV TB 6 and MORRO BAY-MESA 230KV	P6	N-1-1	Diverge	< 100	Diverge	< 100	< 100	122	< 100	< 100	< 100	< 100	< 100	< 100	Operating Solution
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Install redundant battery/relay supply
WATSONVILLE-SALINAS 60KV	GRANITEROCK 4.16KV GEN UNIT RE and GREENVALLEY 115/60KV TB 1	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	171	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	CVSR-R2 0.27KV GEN UNIT 1 and GREENVALLEY 115/60KV TB 1	P3	G-1/N-1	< 100	< 100	< 100	< 100	< 100	117	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 2	P2	Breaker	< 100	< 100	< 100	< 100	< 100	122	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	GREENVALLEY 115/60KV TB 1	P1	N-1	< 100	< 100	< 100	< 100	< 100	122	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	182	174	Diverge	168	215	210	177	212	215	Diverge	Install redundant battery/relay supply
	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	Diverge	116	165	265	134	177	258	< 100	< 100	235	258	122	Mitigation under development
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	121	167	209	111	158	258	< 100	101	236	258	123	Mitigation under development
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	< 100	Diverge	Diverge	< 100	Diverge	Diverge	< 100	Diverge	Diverge	< 100	< 100	Diverge	Install redundant battery/relay supply

Substation	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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
ATASCDRO 70.0 kV	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.55	> 0.9	> 0.9	> 0.9	> 0.9	Off-peak only
	MORROBAY 230/115KV TB 6 and OCEANO-CALLENDER SW STA 115KV	P6	N-1-1	> 0.9	> 0.9	0.77	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	SN LS OB 115/70KV TB 3	P1	N-1	0.96	0.97	0.96	0.97	0.96	0.98	0.98	0.55	1.02	0.97	0.97	0.97	Off-peak only
	SN LS OB 115KV SECTION MA	P2	Bus	0.96	0.98	0.96	0.97	0.96	0.98	0.98	0.55	1.02	0.97	0.98	0.97	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	0.97	0.98	0.96	0.97	0.96	0.98	0.98	0.55	1.02	0.97	0.98	0.97	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.96	0.98	0.95	0.97	0.96	0.98	0.98	0.55	1.02	0.97	0.98	0.97	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	0.96	0.98	0.96	0.97	0.96	0.98	0.98	0.55	1.02	0.97	0.98	0.97	Off-peak only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	0.97	0.98	0.95	0.97	0.96	0.98	0.97	0.55	1.02	0.97	0.98	0.97	Off-peak only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.97	0.98	0.95	0.97	0.96	0.98	0.97	0.55	1.02	0.97	0.98	0.97	Off-peak only
	SAN LUIS OBISPO 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.98	1.00	0.97	0.98	0.98	0.99	0.99	0.81	1.03	0.98	0.99	1.00	Off-peak only
CALLENDERSS 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and CALLENDER SW STA-MESA 115KV	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230/115KV TB 6 and CALLENDER SW STA-MESA 115KV	P6	N-1-1	0.76	0.85	0.53	0.89	0.82	0.80	0.90	> 0.9	> 0.9	0.92	0.94	0.88	Mitigation under development
	CALLENDER SW STA-MESA 115KV	P1	N-1	0.94	0.96	0.88	0.95	0.91	0.97	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
	MESA_PGE 115KV SECTION 1D	P2	Bus	0.89	0.92	0.83	0.93	0.88	0.95	0.95	0.98	1.00	0.93	0.95	0.92	Mitigation under development
	CALLENDERSS 115KV SECTION 1E	P2	Bus	0.94	0.96	0.88	0.95	0.91	0.97	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2	Breaker	0.89	0.93	0.84	0.93	0.88	0.95	0.95	0.98	1.00	0.93	0.95	0.92	Mitigation under development
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	0.76	1.01	Diverge	1.02	1.02	0.97	1.00	Diverge	1.01	Diverge	Operating Solution
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	0.91	Diverge	0.86	Diverge	Diverge	Diverge	0.96	0.96	0.97	0.94	0.97	Diverge	Mitigation under development
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.90	Diverge	0.85	0.94	0.89	Diverge	0.99	1.01	1.02	0.99	0.99	Diverge	Install redundant battery/relay supply
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.90	Diverge	0.85	Diverge	Diverge	Diverge	0.95	0.96	0.95	0.94	0.95	Diverge	Install redundant battery/relay supply
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	0.95	0.83	1.00	Diverge	1.02	1.01	1.02	1.01	0.96	1.02	0.94	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	0.92	0.85	1.01	Diverge	0.98	1.01	1.03	1.02	0.91	1.00	Diverge	Mitigation under development
	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	0.91	0.94	0.85	0.94	0.89	0.95	0.96	0.97	1.00	0.94	0.97	0.94	Mitigation under development
	MESA-SISQUOC AND CALLENDER SW STA-MESA 115 KV LINES	P7	DCTL	0.93	0.96	0.88	0.95	0.91	0.97	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
CAYUCOS 70.0 kV	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.53	> 0.9	> 0.9	> 0.9	> 0.9	Off-peak only
	MORROBAY 230/115KV TB 6 and OCEANO-CALLENDER SW STA 115KV	P6	N-1-1	0.87	> 0.9	0.68	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	SN LS OB 115/70KV TB 3	P1	N-1	0.94	0.94	0.92	0.95	0.92	0.93	0.96	0.54	1.00	0.95	0.95	0.94	Off-peak only
	SN LS OB 115KV SECTION MA	P2	Bus	0.94	0.94	0.92	0.94	0.92	0.93	0.96	0.54	1.00	0.95	0.96	0.94	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	0.94	0.94	0.92	0.95	0.93	0.93	0.96	0.54	1.00	0.95	0.96	0.94	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.94	0.94	0.92	0.94	0.92	0.93	0.96	0.54	1.00	0.95	0.96	0.94	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	0.94	0.94	0.92	0.94	0.92	0.93	0.96	0.54	1.00	0.95	0.96	0.94	Off-peak only
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	0.89	0.99	Diverge	0.98	1.00	0.99	0.99	Diverge	0.99	Diverge	Operating Solution
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	0.94	0.94	0.92	0.95	0.93	0.93	0.95	0.54	1.00	0.95	0.96	0.94	Off-peak only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.94	0.94	0.92	0.95	0.93	0.93	0.95	0.54	1.00	0.95	0.96	0.94	Off-peak only
	SAN LUIS OBISPO 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.96	0.98	0.93	0.97	0.94	0.94	0.98	0.80	1.01	0.97	0.97	0.97	Off-peak only
CMP EVRS 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	MOSS LANDING-GREEN VALLEY #2 115KV and MOSS LANDING-GREEN VALLEY #1 115KV	P6	N-1-1	> 0.9	> 0.9	0.67	0.21	0.87	0.84	0.25	> 0.9	> 0.9	0.29	0.26	0.93	Operating Solution
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P1	N-1	0.88	0.99	0.92	0.97	0.94	0.91	0.99	1.04	1.04	0.96	0.99	0.98	Mitigation under development
	MOSS LANDING-GREEN VALLEY #1 115KV	P1	N-1	0.88	0.99	0.95	0.96	0.97	0.99	0.98	1.04	1.04	0.95	0.98	0.98	Mitigation under development
	MOSS LANDING-GREEN VALLEY #2 115KV	P1	N-1	0.88	0.99	0.95	0.96	0.97	0.99	0.98	1.04	1.04	0.95	0.98	0.98	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON PAUL SWT_ROB ROY	P1	N-1	0.90	1.00	0.95	0.98	0.98	1.01	1.00	1.04	1.04	0.97	1.00	0.99	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (GREENVALLEY-ROB ROY)	P2	Line Section w/o Fault	0.88	0.99	0.92	0.97	0.94	0.91	0.99	1.04	1.04	0.96	0.99	0.98	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (PAUL SWT-ROB ROY)	P2	Line Section w/o Fault	0.90	1.00	0.95	0.98	0.98	1.01	1.00	1.04	1.04	0.97	1.00	0.99	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.88	0.99	0.95	0.96	0.97	0.99	0.98	1.04	1.04	0.95	0.98	0.98	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 6	P2	Breaker	0.89	0.99	0.95	0.96	0.97	0.99	0.98	1.04	1.04	0.95	0.98	0.98	Mitigation under development
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	0.96	1.01	0.89	0.99	1.00	1.01	1.00	1.04	1.04	0.97	1.00	1.01	Continue to Monitor
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.82	0.98	0.91	0.94	0.95	0.98	0.97	1.04	1.04	0.93	0.97	0.97	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 3	P2	Breaker	0.89	1.00	0.93	0.98	0.95	0.92	0.99	1.04	1.04	0.97	1.00	0.99	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 4	P2	Breaker	0.90	1.00	0.96	0.97	0.98	1.00	0.99	1.04	1.04	0.96	0.99	0.99	Mitigation under development
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.91	0.67	0.21	0.86	0.82	0.25	1.04	1.04	0.28	0.25	0.90	Mitigation under development
COBURN 230.0 kV	COBURN-LAS AGUILAS SW STA 230KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	COBURN 230/60KV TB 2 and MOSS LANDING-COBURN 230KV	P6	N-1-1	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	MOSSLAND 500/230KV TB 9	P1	N-1	0.99	0.99	0.89	1.00	0.96	0.97	1.00	0.95	1.01	0.96	0.97	0.98	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	0.99	0.99	0.89	1.00	0.96	0.97	1.00	0.95	1.01	0.96	0.97	0.98	Continue to Monitor
CRAZYHORSESS 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLNSW 230/115KV TB 4 and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	1.01	1.00	0.89	1.01	1.00	1.00	1.01	1.02	1.03	1.00	1.02	1.01	Continue to Monitor
DEL MNTE 60.0 kV	MOSS LANDING-DEL MONTE #1 115KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
DIABLOCN 230.0 kV	MORRO BAY-SOLAR SW STA #1 230KV and TEMPLETON-14C1959SS #1 230KV	P6	N-1-1	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	NA	1.04	Diverge	1.01	1.03	0.86	1.00	Diverge	1.03	Diverge	Operating Solution
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	0.89	NA	1.04	Diverge	1.01	1.03	1.01	1.00	0.89	1.03	0.88	Mitigation under development
ESTRELLA 230.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and ESTRELLA-CALFLATSSS #1 230KV	P3	G-1/N-1	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	ESTRELLA-CALFLATSSS #1 230KV and MORROBAY-ESTRELLA #1 230KV	P6	N-1-1	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
FORT ORD 60.0 kV	MOSS LANDING-DEL MONTE #1 115KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
GREENVALLEY 115.0 kV	MOSS LANDING-GREEN VALLEY #2 115KV and MOSS LANDING-GREEN VALLEY #1 115KV	P6	N-1-1	> 0.9	> 0.9	0.73	0.23	0.88	0.84	0.26	> 0.9	> 0.9	0.30	0.27	> 0.9	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.89	0.98	0.95	0.97	0.96	0.97	0.98	1.02	1.02	0.96	0.98	0.98	Mitigation under development
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.92	0.73	0.23	0.87	0.83	0.26	1.02	1.02	0.29	0.26	0.90	Mitigation under development
KING CTY 60.0 kV	COBURN 230/60KV TB 2 and MOSS LANDING-COBURN 230KV	P6	N-1-1	> 0.9	> 0.9	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	MOSSLAND 500/230KV TB 9	P1	N-1	0.99	0.99	0.90	1.00	0.98	0.99	1.01	0.95	1.03	0.98	0.99	0.98	Continue to Monitor
	COBURN 230KV SECTION 1D	P2	Bus	1.00	0.99	0.95	1.00	0.98	1.02	1.01	0.90	1.03	1.00	1.01	0.99	Off-peak only
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	0.99	0.99	0.89	1.00	0.97	0.99	1.01	0.95	1.03	0.98	0.99	0.98	Continue to Monitor
LARELES 60.0 kV	SALINAS 115/60KV TB 3 and SALINAS 115/60KV TB 2	P6	N-1-1	> 0.9	> 0.9	0.41	0.27	> 0.9	0.29	0.30	0.35	> 0.9	0.25	0.32	> 0.9	Operating Solution
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	0.41	0.27	Diverge	0.29	0.31	0.35	1.31	0.25	0.30	Diverge	Install redundant battery/relay supply
MESA PGE 230.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MORRO BAY-MESA 230KV	P3	G-1/N-1	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORRO BAY-MESA 230KV and DIABLO-MESA 230KV	P6	N-1-1	> 0.9	0.84	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	0.92	0.87	Operating Solution
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	NA	1.03	Diverge	1.01	1.02	0.86	1.01	Diverge	1.00	Diverge	Operating Solution
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	0.87	NA	1.03	Diverge	1.01	1.02	1.01	1.00	0.86	1.01	0.86	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	0.83	NA	1.03	Diverge	0.98	0.99	1.03	1.03	0.81	0.88	Diverge	Mitigation under development
MORRO BY 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MORROBAY 230/115KV TB 6	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230/115KV TB 6 and OCEANO-CALLENDER SW STA 115KV	P6	N-1-1	0.79	0.88	0.58	> 0.9	0.86	0.83	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.92	Mitigation under development
	MORROBAY 230/115KV TB 6	P1	N-1	0.91	0.94	0.88	0.96	0.93	0.96	0.97	1.00	1.02	0.97	0.98	0.94	Continue to Monitor
	MORROBAY 230KV SECTION 1D	P2	Bus	0.92	0.94	0.88	0.95	0.93	0.95	0.97	1.01	1.02	0.97	0.97	0.94	Continue to Monitor
	MORROBAY 230KV - SECTION 1D & 1E	P2	Breaker	0.92	0.95	0.88	0.95	0.92	0.95	0.98	1.00	1.02	0.96	0.97	0.94	Continue to Monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	0.86	0.99	Diverge	1.00	1.00	0.99	0.98	Diverge	0.98	Diverge	Operating Solution
MORROBAY 230.0 kV	MORRO BAY-SOLAR SW STA #1 230KV and TEMPLETON-14C1959SS #1 230KV	P6	N-1-1	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	0.90	0.98	Diverge	1.00	0.99	1.00	0.98	Diverge	0.98	Diverge	Operating Solution
MOSSLNSW 230.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	TEMPLETON-14C1959SS #1 230KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLAND 500/230KV TB 9	P1	N-1	0.98	0.98	0.87	0.99	0.95	0.95	0.99	0.95	1.01	0.93	0.94	0.97	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	0.98	0.98	0.86	0.99	0.95	0.95	0.99	0.95	1.01	0.92	0.94	0.96	Continue to Monitor
OCEANO 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and OCEANO-CALLENDER SW STA 115KV	P3	G-1/N-1	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230/115KV TB 6 and OCEANO-CALLENDER SW STA 115KV	P6	N-1-1	0.74	0.85	0.52	0.89	0.81	0.80	> 0.9	> 0.9	> 0.9	0.93	> 0.9	0.88	Mitigation under development
	CALLENDER SW STA-MESA 115KV	P1	N-1	0.94	0.96	0.88	0.95	0.91	0.97	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
	OCEANO-CALLENDER SW STA 115KV	P1	N-1	0.94	0.95	0.88	0.96	0.92	0.97	0.98	1.00	1.02	0.97	0.99	0.95	Continue to Monitor
	MESA_PGE 115KV SECTION 1D	P2	Bus	0.89	0.92	0.83	0.93	0.88	0.95	0.95	0.98	1.01	0.93	0.95	0.92	Mitigation under development
	CALLENDERSS 115KV SECTION 1E	P2	Bus	0.94	0.96	0.88	0.95	0.91	0.97	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
	CALLENDERSS 115KV SECTION 1D	P2	Bus	0.94	0.95	0.88	0.96	0.92	0.97	0.98	1.00	1.02	0.97	0.99	0.95	Continue to Monitor
	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2	Breaker	0.89	0.93	0.83	0.93	0.88	0.95	0.95	0.98	1.01	0.93	0.95	0.92	Mitigation under development
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	0.76	1.00	Diverge	1.01	1.02	0.97	1.00	Diverge	1.00	Diverge	Operating Solution
	MESA_PGE 115KV - SECTION 2D & 1D	P2	Breaker	0.91	Diverge	0.86	Diverge	Diverge	Diverge	0.96	0.96	0.97	0.94	0.97	Diverge	Mitigation under development
	CALLENDERSS 115KV - SECTION 1E & 1D	P2	Breaker	0.94	0.95	0.88	0.96	0.92	0.97	0.98	1.00	1.02	0.97	0.99	0.95	Continue to Monitor
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.90	Diverge	0.85	0.94	0.89	Diverge	0.99	1.01	1.02	0.99	0.99	Diverge	Install redundant battery/relay supply
	CALLENDAR SW STA 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.94	0.95	0.88	0.96	0.92	0.97	0.98	1.00	1.02	0.97	0.99	0.95	Continue to Monitor
	CALLENDER 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.94	0.95	0.88	0.96	0.92	0.97	0.98	1.00	1.02	0.97	0.99	0.95	Continue to Monitor
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.90	Diverge	0.85	Diverge	Diverge	Diverge	0.95	0.96	0.95	0.94	0.95	Diverge	Install redundant battery/relay supply
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	0.94	0.83	1.00	Diverge	1.01	1.01	1.02	1.01	0.96	1.01	0.93	Mitigation under development
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	0.91	0.85	1.00	Diverge	0.97	1.01	1.03	1.02	0.91	1.00	Diverge	Mitigation under development
	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	0.91	0.94	0.85	0.94	0.89	0.95	0.96	0.97	1.00	0.94	0.97	0.94	Mitigation under development
	MESA-SISQUOC AND CALLENDER SW STA-MESA 115 KV LINES	P7	DCTL	0.93	0.96	0.88	0.95	0.91	0.97	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.59	> 0.9	> 0.9	> 0.9	> 0.9	Off-peak only
	MORRO BAY-TEMPLETON 230KV and TEMPLETON-GATES 230KV	P6	N-1-1	0.65	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.92	> 0.9	> 0.9	Estrella Substation Project
	PASO ROBLES-TEMPLETON 70KV	P1	N-1	0.72	0.97	0.92	0.93	0.98	1.00	0.96	0.92	1.02	0.84	0.96	0.97	Estrella Substation Project
	SN LS OB 115/70KV TB 3	P1	N-1	0.97	0.99	0.98	0.98	0.99	1.00	0.98	0.59	1.03	0.97	0.98	0.99	Off-peak only

Substation	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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
PASO ROBLES 70.0 kV	SN LS OB 115KV SECTION MA	P2	Bus	0.97	0.99	0.98	0.97	0.99	1.00	0.98	0.59	1.03	0.97	0.98	0.99	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	0.97	0.99	0.98	0.97	0.99	1.00	0.99	0.59	1.03	0.97	0.98	0.99	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.97	0.99	0.98	0.97	0.99	1.00	0.98	0.59	1.03	0.97	0.98	0.99	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	0.97	0.99	0.98	0.97	0.99	1.00	0.98	0.59	1.03	0.97	0.98	0.99	Off-peak only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	0.97	0.99	0.98	0.98	0.99	1.00	0.98	0.59	1.03	0.97	0.98	0.99	Off-peak only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.97	0.99	0.98	0.98	0.99	1.00	0.98	0.59	1.03	0.97	0.98	0.99	Off-peak only
	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.72	0.97	0.95	0.93	0.97	1.00	0.96	0.92	1.02	0.84	0.96	0.98	Install redundant battery/relay supply
	SAN LUIS OBISPO 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.97	1.00	0.98	0.98	0.99	1.01	0.99	0.82	1.03	0.97	0.99	1.00	Off-peak only
PAUL SWT 115.0 kV	CAMPEVERS_D1 21.60KV GEN UNIT RE and GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P3	G-1/N-1	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Mitigation under development
	MOSS LANDING-GREEN VALLEY #2 115KV and MOSS LANDING-GREEN VALLEY #1 115KV	P6	N-1-1	> 0.9	> 0.9	0.68	0.21	0.87	0.84	0.25	> 0.9	> 0.9	0.29	0.26	0.93	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P1	N-1	0.87	1.00	0.91	0.96	0.94	0.91	0.98	1.03	1.03	0.95	0.98	0.98	Mitigation under development
	MOSS LANDING-GREEN VALLEY #1 115KV	P1	N-1	0.88	0.99	0.95	0.96	0.97	0.99	0.98	1.03	1.03	0.95	0.98	0.99	Mitigation under development
	MOSS LANDING-GREEN VALLEY #2 115KV	P1	N-1	0.88	0.99	0.95	0.96	0.97	0.99	0.98	1.03	1.03	0.95	0.98	0.99	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON PAUL SWT_ROB ROY	P1	N-1	0.89	1.01	0.95	0.97	0.99	1.02	0.99	1.03	1.03	0.96	0.99	1.00	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (GREENVALLEY-ROB ROY)	P2	Line Section w/o Fault	0.87	1.00	0.91	0.96	0.94	0.91	0.98	1.03	1.03	0.95	0.98	0.98	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (PAUL SWT-ROB ROY)	P2	Line Section w/o Fault	0.89	1.01	0.95	0.97	0.99	1.02	0.99	1.03	1.03	0.96	0.99	1.00	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.88	0.99	0.95	0.96	0.97	0.99	0.98	1.03	1.03	0.95	0.98	0.98	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 6	P2	Breaker	0.88	0.99	0.95	0.95	0.97	0.99	0.98	1.03	1.03	0.94	0.98	0.98	Mitigation under development
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	0.95	1.01	0.90	0.99	1.00	1.02	1.00	1.03	1.03	0.96	1.00	1.01	Continue to Monitor
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.82	0.98	0.91	0.94	0.95	0.98	0.97	1.03	1.03	0.93	0.97	0.97	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 3	P2	Breaker	0.88	1.00	0.93	0.97	0.95	0.92	0.99	1.03	1.03	0.96	0.99	0.99	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 4	P2	Breaker	0.90	1.00	0.96	0.97	0.98	1.00	0.99	1.03	1.03	0.96	0.99	1.00	Mitigation under development
	ROB ROY 115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.89	1.01	0.96	0.97	1.00	1.03	0.99	1.03	1.03	0.96	0.99	1.00	Install redundant battery/relay supply
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.91	0.67	0.21	0.86	0.82	0.25	1.03	1.03	0.28	0.25	0.90	Mitigation under development
PRUNEDLE 115.0 kV	MOSSLNSW 230/115KV TB 4 and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
ROB ROY 115.0 kV	CAMPEVERS_D1 21.60KV GEN UNIT RE and GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P3	G-1/N-1	0.86	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Mitigation under development
	MOSS LANDING-GREEN VALLEY #1 115KV and MOSS LANDING-GREEN VALLEY #2 115KV	P6	N-1-1	> 0.9	> 0.9	0.70	0.22	0.87	0.84	0.26	> 0.9	> 0.9	0.29	0.27	> 0.9	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY_ROB ROY	P1	N-1	0.86	1.00	0.91	0.96	0.94	0.90	0.98	1.03	1.03	0.95	0.98	0.98	Mitigation under development
	MOSS LANDING-GREEN VALLEY #1 115KV	P1	N-1	0.89	0.99	0.95	0.97	0.97	0.98	0.98	1.03	1.03	0.96	0.98	0.98	Mitigation under development
	MOSS LANDING-GREEN VALLEY #2 115KV	P1	N-1	0.89	0.99	0.95	0.97	0.97	0.98	0.98	1.03	1.03	0.96	0.98	0.98	Mitigation under development
	GREEN VALLEY-PAUL SWEET 115KV (GREENVALLEY-ROB ROY)	P2	Line Section w/o Fault	0.86	1.00	0.91	0.96	0.94	0.90	0.98	1.03	1.03	0.95	0.98	0.98	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.89	0.99	0.95	0.97	0.97	0.98	0.98	1.03	1.03	0.96	0.98	0.98	Mitigation under development
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 6	P2	Breaker	0.90	0.99	0.95	0.96	0.97	0.98	0.98	1.03	1.03	0.95	0.98	0.98	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 5	P2	Breaker	0.86	0.98	0.92	0.95	0.95	0.96	0.98	1.03	1.02	0.95	0.97	0.97	Mitigation under development
	GREENVALLEY 115KV - MIDDLE BREAKER BAY 3	P2	Breaker	0.87	1.00	0.92	0.97	0.95	0.91	0.99	1.03	1.03	0.96	0.99	0.99	Mitigation under development
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.91	0.70	0.22	0.86	0.82	0.26	1.03	1.03	0.28	0.26	0.90	Mitigation under development
SALINAS 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLNSW 230/115KV TB 4 and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	1.00	0.99	0.89	1.01	0.99	1.00	1.01	1.01	1.03	0.99	1.01	1.00	Continue to Monitor
SALINAS1 60.0 kV	SALINAS 115/60KV TB 3 and SALINAS 115/60KV TB 2	P6	N-1-1	> 0.9	> 0.9	0.46	0.28	> 0.9	0.33	0.32	0.36	> 0.9	0.27	0.33	> 0.9	Operating Solution
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	0.47	0.28	Diverge	0.33	0.32	0.36	1.13	0.26	0.32	Diverge	Install redundant battery/relay supply
SAN MIGUEL 70.0 kV	MORRO BAY-TEMPLETON 230KV and TEMPLETON-GATES 230KV	P6	N-1-1	0.66	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.93	> 0.9	> 0.9	Estrella Substation Project
	PASO ROBLES-TEMPLETON 70KV	P1	N-1	0.75	1.00	0.96	0.93	0.99	1.00	0.96	0.95	1.02	0.86	0.96	0.99	Estrella Substation Project
	SAN MIGUEL-PASO ROBLES 70KV	P1	N-1	0.88	NA	NA	0.92	NA	NA	0.95	NA	NA	0.94	0.95	NA	Estrella Substation Project
	SN LS OB 115/70KV TB 3	P1	N-1	0.95	1.00	0.99	0.97	0.99	1.00	0.98	0.71	1.02	0.97	0.97	0.99	Off-peak only
	SN LS OB 115KV SECTION MA	P2	Bus	0.95	1.00	0.99	0.97	0.99	1.01	0.98	0.71	1.02	0.97	0.98	0.99	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	0.95	1.00	0.99	0.97	0.99	1.01	0.98	0.71	1.02	0.97	0.98	0.99	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.95	1.00	0.99	0.97	0.99	1.00	0.98	0.71	1.02	0.97	0.98	0.99	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	0.95	1.00	0.99	0.97	0.99	1.01	0.98	0.71	1.02	0.97	0.98	0.99	Off-peak only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	0.95	1.00	0.99	0.97	0.99	1.01	0.97	0.71	1.02	0.97	0.98	0.99	Off-peak only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.95	1.00	0.99	0.97	0.99	1.01	0.97	0.71	1.02	0.97	0.98	0.99	Off-peak only
	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.75	1.00	0.98	0.93	0.99	1.00	0.96	0.95	1.02	0.86	0.95	0.99	Install redundant battery/relay supply
	SAN LUIS OBISPO 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.95	1.00	0.99	0.97	0.99	1.01	0.98	0.87	1.02	0.97	0.98	0.99	Off-peak only
SANBENITO 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	CRAZY HORSE CANYON-SAN BENITO 115KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.83	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLAND 500/230KV TB 9	P1	N-1	0.99	0.99	0.89	1.01	0.99	1.00	1.02	1.01	1.02	1.00	1.01	1.00	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	1.00	0.99	0.88	1.01	0.99	1.00	1.01	1.01	1.02	0.99	1.01	1.00	Continue to Monitor
SISQUOC 115.0 kV	MESA-SISQUOC 115KV and MESA_PGE-SNTA MRA 115KV	P6	N-1-1	0.41	0.44	> 0.9	> 0.9	0.48	> 0.9	> 0.9	> 0.9	> 0.9	0.93	> 0.9	0.45	Operating Solution
SN LS OB 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MORROBAY 230/115KV TB 6	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230/115KV TB 6 and OCEANO-CALLENDER SW STA 115KV	P6	N-1-1	0.79	0.89	0.59	> 0.9	0.86	0.83	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.92	Operating Solution
	MORROBAY 230/115KV TB 6	P1	N-1	0.92	0.95	0.89	0.96	0.93	0.96	0.98	1.00	1.02	0.97	0.98	0.94	Continue to Monitor
	MESA_PGE 115KV SECTION 1D	P2	Bus	0.93	0.96	0.88	0.97	0.93	0.98	0.97	0.99	1.01	0.96	0.98	0.95	Continue to Monitor
	MORROBAY 230KV SECTION 1D	P2	Bus	0.92	0.94	0.88	0.96	0.93	0.95	0.97	1.01	1.02	0.97	0.97	0.94	Continue to Monitor
	MORRO BY 115KV SECTION 1D	P2	Bus	0.92	0.95	0.89	0.97	0.94	0.97	0.98	1.01	1.02	0.98	0.98	0.95	Continue to Monitor
	MORRO BY - 1D 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.92	0.95	0.89	0.97	0.94	0.97	0.98	1.01	1.02	0.98	0.98	0.95	Continue to Monitor
	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2	Breaker	0.93	0.96	0.89	0.97	0.93	0.98	0.98	0.99	1.01	0.96	0.98	0.96	Continue to Monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	0.93	0.95	0.88	0.96	0.93	0.95	0.98	1.00	1.02	0.96	0.97	0.94	Continue to Monitor
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	Diverge	Diverge	0.82	0.98	Diverge	1.00	1.00	0.97	0.98	Diverge	0.98	Diverge	Operating Solution
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	Diverge	0.94	0.88	0.99	Diverge	1.01	1.00	1.01	1.00	0.95	1.00	0.93	Mitigation under development
	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	Diverge	0.93	0.90	1.00	Diverge	0.94	1.01	1.02	1.01	0.93	1.00	Diverge	Mitigation under development
SN LS OB 70.0 kV	SN LS OB 115/70KV TB 3	P1	N-1	0.95	0.95	0.94	0.96	0.94	0.95	0.96	0.95	1.00	0.97	0.96	0.95	Continue to Monitor
	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	0.95	0.95	0.93	0.95	0.94	0.95	0.96	0.53	1.00	0.96	0.96	0.95	Off-peak only
	MORROBAY 230/115KV TB 6 and OCEANO-CALLENDER SW STA 115KV	P3	G-1/N-1	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Off-peak only
	SN LS OB 115KV SECTION MA	P6	N-1-1	0.87	> 0.9	0.66	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Bus	0.95	0.95	0.93	0.95	0.94	0.95	0.96	0.53	1.00	0.96	0.96	0.95	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.95	0.95	0.94	0.95	0.94	0.95	0.96	0.53	1.00	0.96	0.96	0.95	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	0.95	0.95	0.93	0.95	0.94	0.95	0.96	0.53	1.00	0.96	0.96	0.95	Off-peak only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	0.95	0.95	0.93	0.95	0.94	0.95	0.95	0.53	1.00	0.96	0.96	0.95	Off-peak only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.95	0.95	0.93	0.95	0.94	0.95	0.95	0.53	1.00	0.96	0.96	0.95	Off-peak only
SNTA MRA 115.0 kV	MESA-SISQUOC 115KV and MESA_PGE-SNTA MRA 115KV	P6	N-1-1	0.38	0.41	> 0.9	> 0.9	0.45	> 0.9	> 0.9	> 0.9	> 0.9	0.93	> 0.9	0.42	Operating Solution
SOLEDAD 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	TEMPLETON-14C1959SS #1 230KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLAND 500/230KV TB 9	P1	N-1	0.99	0.97	0.89	1.00	0.98	0.99	1.01	1.00	1.02	1.00	1.01	0.98	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	1.00	0.97	0.87	1.00	0.98	0.99	1.00	1.00	1.02	0.99	1.01	0.98	Continue to Monitor
SOLEDAD 60.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	TEMPLETON-14C1959SS #1 230KV and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLAND 500/230KV TB 9	P1	N-1	1.00	0.97	0.89	1.00	0.98	0.99	1.01	1.00	1.03	1.00	1.01	0.98	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	1.00	0.97	0.87	1.00	0.98	0.99	1.01	1.00	1.03	0.99	1.01	0.98	Continue to Monitor
SPENCE 115.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and MOSSLAND 500/230KV TB 9	P3	G-1/N-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLNSW 230/115KV TB 4 and MOSSLAND 500/230KV TB 9	P6	N-1-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MOSSLAND 500/230KV TB 9	P1	N-1	0.95	0.95	0.89	0.96	0.96	1.00	0.98	0.98	1.02	0.97	0.99	0.96	Continue to Monitor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2	Breaker	0.95	0.95	0.88	0.96	0.96	1.00	0.97	0.98	1.02	0.97	1.00	0.96	Continue to Monitor
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.93	0.93	0.90	0.96	0.93	0.95	0.96	0.96	1.01	0.94	0.96	0.92	Continue to Monitor
SPENCE 60.0 kV	MLPB1CTG1 18.00KV & MLPB1CTG2 18.00KV & MLPB1STG1 18.00KV GEN UNITS and SALINAS1-FIRESTNE 60KV	P3	G-1/N-1	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: Salinas Area Reinforcement
	SALINAS 115/60KV TB 3 and SALINAS 115/60KV TB 2	P6	N-1-1	> 0.9	> 0.9	> 0.9	0.26	> 0.9	> 0.9	0.30	0.33	> 0.9	0.24	0.31	> 0.9	Project: Salinas Area Reinforcement
	SALINAS1-FIRESTNE 60KV	P1	N-1	0.90	0.88	NA	0.94	0.88	NA	0.96	0.96	NA	0.91	0.96	0.87	Project: Salinas Area Reinforcement
	SALINAS-SPENCE 60KV	P1	N-1	0.91	0.90	NA	0.96	0.91	NA	0.97	0.97	NA	0.93	0.97	0.89	Project: Salinas Area Reinforcement
	SALINAS-SPENCE 60KV (2)	P1	N-1	0.91	0.89	NA	0.95	0.89	NA	0.96	0.96	NA	0.92	0.96	0.89	Project: Salinas Area Reinforcement
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	Diverge	Diverge	NA	0.26	Diverge	NA	0.30	0.33	NA	0.23	0.30	Diverge	Install redundant battery/relay supply
TEMPLETON 230.0 kV	CABALLEROBES 0.66KV GEN UNIT 1 and TEMPLETON-14C1959SS #1 230KV	P3	G-1/N-1	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORRO BAY-SOLAR SW STA #2 230KV and TEMPLETON-14C1959SS #1 230KV	P6	N-1-1	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2	Breaker	Diverge	Diverge	0.90	0.98	Diverge	1.00	0.99	1.00	0.99	Diverge	0.97	Diverge	Operating Solution
TEMPLETONJT1 70.0 kV	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.58	> 0.9	> 0.9	> 0.9	> 0.9	Off-peak only
	MORRO BAY-TEMPLETON 230KV and TEMPLETON-GATES 230KV	P6	N-1-1	0.69	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Operating Solution
	SN LS OB 115/70KV TB 3	P1	N-1	0.99	1.00	1.00	0.99	0.99	1.00	0.99	0.58	1.03	0.99	0.99	1.00	Off-peak only
	SN LS OB 115KV SECTION MA	P2	Bus	0.99	1.00	1.00	0.99	0.99	1.00	1.00	0.58	1.03	0.99	0.99	0.99	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	0.99	1.00	1.00	0.99	0.99	1.00	1.00	0.58	1.03	0.99	1.00	1.00	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	0.99	1.00	1.00	0.99	0.99	1.00	1.00	0.58	1.02	0.99	0.99	0.99	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	0.99	1.00	1.00	0.99	0.99	1.00	1.00	0.58	1.03	0.99	0.99	0.99	Off-peak only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	0.99	1.00	0.99	0.99	0.99	1.00	0.99	0.58	1.02	0.99	1.00	1.00	Off-peak only

Substation	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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	0.99	1.00	0.99	0.99	0.99	1.00	0.99	0.58	1.02	0.99	1.00	1.00	Off-peak only
	SAN LUIS OBISPO 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	0.99	1.01	0.99	0.99	1.00	1.01	1.00	0.81	1.03	0.99	1.00	1.01	Off-peak only
UNIONPGAE 70.0 kV	CALPOLYSLO 12.47KV GEN UNIT RN and SN LS OB 115/70KV TB 3	P3	G-1/N-1	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.64	> 0.9	> 0.9	> 0.9	> 0.9	Off-peak only
	ESTRELLA 230/70KV TB 1 and TEMPLETON-14C1959SS #1 230KV	P6	N-1-1	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to Monitor
	SN LS OB 115/70KV TB 3	P1	N-1	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	SN LS OB 115KV SECTION MA	P2	Bus	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2	Breaker	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2	Breaker	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	SN LS OB - MA 115KV & TEMBLOR-SAN LUIS OBISPO LINE	P2	Breaker	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	Non-Redundant Battery/Relay	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundant Battery/Relay	NA	1.01	1.01	NA	1.01	1.02	NA	0.64	1.02	NA	NA	1.01	Off-peak only
	SAN LUIS OBISPO 115-70KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundant Battery/Relay	NA	1.01	1.01	NA	1.01	1.02	NA	0.84	1.02	NA	NA	1.01	Off-peak only

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	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
ATASCDRO 70.0 kV	SN LS OB 115/70KV TB 3	P1	N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	47	< 8	< 8	< 8	< 8	Off-peak only
CALLENDERSS 115.0 kV	CALLENDER SW STA-MESA 115KV	P1	N-1	< 8	< 8	11	< 8	8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Mitigation under development
CAYUCOS 70.0 kV	SN LS OB 115/70KV TB 3	P1	N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	48	< 8	< 8	< 8	< 8	Off-peak only
CMP EVRS 115.0 kV	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P1	N-1	< 8	< 8	< 8	< 8	< 8	10	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
COBURN 230.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
KING CTY 60.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
MORRO BY 115.0 kV	MORROBAY 230/115KV TB 6	P1	N-1	9	< 8	10	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Mitigation under development
MOSSLNSW 230.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	11	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
OCEANO 115.0 kV	CALLENDER SW STA-MESA 115KV	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
	OCEANO-CALLENDER SW STA 115KV	P1	N-1	< 8	< 8	10	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
PASO ROBLES 70.0 kV	PASO ROBLES-TEMPLETON 70KV	P1	N-1	25	< 8	< 8	< 8	< 8	< 8	< 8	10	< 8	13	< 8	< 8	Estrella Substation Project
	SN LS OB 115/70KV TB 3	P1	N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	42	< 8	< 8	< 8	< 8	Off-peak only
PAUL SWT 115.0 kV	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P1	N-1	9	< 8	< 8	< 8	< 8	11	< 8	< 8	< 8	< 8	< 8	< 8	Mitigation under development
ROB ROY 115.0 kV	GREEN VALLEY-PAUL SWEET 115KV MOAS OPENED ON GREENVALLEY ROB ROY	P1	N-1	10	< 8	< 8	< 8	< 8	10	< 8	< 8	< 8	< 8	< 8	< 8	Mitigation under development
SAN MIGUEL 70.0 kV	PASO ROBLES-TEMPLETON 70KV	P1	N-1	21	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	10	< 8	< 8	Estrella Substation Project
	SN LS OB 115/70KV TB 3	P1	N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	31	< 8	< 8	< 8	< 8	Off-peak only
SANBENITO 115.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
SN LS OB 115.0 kV	MORROBAY 230/115KV TB 6	P1	N-1	< 8	< 8	8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
SN LS OB 70.0 kV	SN LS OB 115/70KV TB 3	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	49	< 8	< 8	< 8	< 8	Continue to Monitor
SOLEDAD 115.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
SOLEDAD 60.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	Continue to Monitor
SPENCE 115.0 kV	MOSSLAND 500/230KV TB 9	P1	N-1	< 8	< 8	9	< 8	NA	< 8	< 8	< 8	< 8	NA	NA	NA	Continue to Monitor
TEMPLETONJT1 70.0 kV	SN LS OB 115/70KV TB 3	P1	N-1	< 8	< 8	< 8	< 8	< 8	< 8	< 8	44	< 8	< 8	< 8	< 8	Off-peak only
UNIONPGAE 70.0 kV	SN LS OB 115/70KV TB 3	P1	N-1	NA	< 8	< 8	NA	< 8	< 8	NA	37	< 8	NA	NA	< 8	Off-peak only

Contingency	Category	Category Description	Transient Stability Performance						Potential Mitigation Solutions
			Baseline Scenarios				Sensitivity Scenarios		
			2028 Spring Off-Peak	2031 Summer Peak	2036 Summer Peak	2036 Summer-Off Peak	2028 Spring OP Sensitivity	2031 SP High CEC Forecast	
In accordance with TPL-001-5- Requirement R2.6, this area relies on the past studies from the 2024-25 Transmission Planning Process for transient stability studies:									
https://stakeholdercenter.caiso.com/InitiativeDocuments/BoardApproved-AppendixC-2024-2025-TransmissionPlan.pdf									

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)														Potential Mitigation Solutions
			2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2041 Summer Peak	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2036 Summer-Off Peak	2036 Winter Off-Peak	2041 Greater Bay area Summer Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	

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

Substation	Load Served (MW)															Potential Mitigation Solutions
	2026 Summer Peak	2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2041 Summer Peak	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2036 Summer-Off Peak	2036 Winter Off-Peak	2041 Greater Bay area Summer Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	

No single source substation with more than 100 MW