

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
Atascadero-Cayucos 70 kV Line	Base Case	P0	Base Case	66	90	158	51	69	114	38	20	91	32	38	Continue to monitor
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
Atascadero-San Luis Obispo 70 kV Line	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	111	26	36	56	15	21	55	1	27	50	54	Project: Estrella Substation Project
Baywood-San Luis Obispo 70 kV Line	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	109	48	64	56	34	45	65	20	48	50	65	Project: Estrella Substation Project
Callender Sw. Sta-Mesa 115 kV Line	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	144	132	Diverge	Diverge	Existing UVLS
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	NA	NA	NA	NA	NA	223	106	84	NA	47	116	Redundant relay installation recommended in 2022-2023 TPP
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MORRO BAY-DIABLO 230KV [5260] & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	NA	NA	Diverge	Diverge	Diverge	Diverge	Diverge	143	124	134	Diverge	Existing UVLS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	NA	NA	Diverge	Diverge	Diverge	Diverge	Diverge	143	124	134	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	NA	NA	NA	81	Diverge	Diverge	Diverge	136	110	124	Diverge	Existing UVLS
Coalinga #1-San Miguel 70 kV Line	PASO ROBLES-TEMPLETON 70KV [9400]	P1	N-1	Diverge	30	41	55	13	25	57	24	29	71	57	Project: Estrella Substation Project
	SAN MIGUEL-PASO ROBLES 70KV [9390]	P1	N-1	118	NA	NA	58	NA	NA	60	NA	NA	73	59	Project: Estrella Substation Project
	SAN MIGL-UNIONPGAE #1 70KV [0]	P1	N-1	NA	123	143	NA	59	65	NA	37	124	NA	NA	Under review
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	27	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	35	48	55	15	29	57	23	34	71	57	Project: Estrella Substation Project
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	26	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	24	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	110	29	37	30	11	24	51	24	28	44	55	Project: Estrella Substation Project
	TEMPLETON-ATASCADERO & TEMPLETON-PASO ROBLES 70 KV LINES	P7	DCTL	Diverge	31	42	55	13	25	57	24	30	71	57	Project: Estrella Substation Project
Coburn 230/60 kV Bank #1	DIABLOCNYN1 25.00KV GEN UNIT 1 & COBURN 230/60KV TB 2	P3	G-1/ N-1	84	86	NA	94	93	NA	93	104	85	16	69	Continue to monitor / Generation Redispatch
	DIABLOCNYN2 25.00KV GEN UNIT 1 & COBURN 230/60KV TB 2	P3	G-1/ N-1	84	86	NA	94	93	NA	93	104	85	16	69	Continue to monitor / Generation Redispatch
Crazy Horse-Moss Landing #1 115 kV Line	SALINAS-MOSSLSNW-DOLAN RD 115KV [0] & MOSS LANDING-SALINAS #2 115KV [2890]	P6	N-1-1	85	97	126	58	64	85	33	23	97	57	54	Continue to monitor

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				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
MOSS LANDING - SALINAS #1 AND #2 115 KV LINES		P7	DCTL	85	97	126	58	64	85	54	23	97	57	54	Continue to monitor
Crazy Horse-Moss Landing #2 115 kV Line	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	89	102	132	62	69	90	36	23	102	59	57	Potential new RAS
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	89	102	132	62	69	90	57	23	102	59	57	Potential new RAS
Crazy Horse-Natividad #1 115 kV Line	MOSS LANDING-SALINAS #1 115KV [2880] (MOSSLNSW-DOLAN J1)	P2-1	Line Section w/o Fault	80	93	111	49	55	71	52	22	94	47	52	Continue to monitor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 2	P2-3	Non-Bus-Tie-Breaker Fault	72	84	100	44	50	64	47	20	85	40	47	Continue to monitor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	72	84	100	44	50	64	47	20	85	41	47	Continue to monitor
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	167	197	253	99	112	147	47	43	197	101	107	Previously identified RAS in 2018-2019 TPP.
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	167	197	253	99	112	147	107	43	197	101	107	Previously identified RAS in 2018-2019 TPP.
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	134	140	168	69	74	99	87	33	139	93	87	Previously identified RAS in 2018-2019 TPP.
Crazy Horse-Soledad 115 kV Line	MOSS LANDING-SALINAS #1 115KV [2880] (MOSSLNSW-DOLAN J1)	P2-1	Line Section w/o Fault	80	93	111	49	55	71	52	22	94	47	52	Continue to monitor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 2	P2-3	Non-Bus-Tie-Breaker Fault	72	84	100	44	50	64	47	20	85	40	47	Continue to monitor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	72	84	100	44	50	64	47	20	85	41	47	Continue to monitor
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	167	197	253	99	112	147	47	43	197	101	107	Previously identified RAS in 2018-2019 TPP.
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	167	197	253	99	112	147	107	43	197	101	107	Previously identified RAS in 2018-2019 TPP.
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	134	140	168	69	74	99	87	33	139	93	87	Previously identified RAS in 2018-2019 TPP.
Divide-Cabrillo 115 kV Line No. 1	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	158	156	166	37	38	46	137	17	158	39	50	Existing UVLS
Estrella-Paso Robles 70 kV Line	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	TEMPLETON-GATES 230KV [5934] & MORROBAY-ESTRELLA #1 230KV [0]	P6	N-1-1	NA	85	107	NA	38	54	NA	17	81	NA	NA	Load forecast under review
	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	NA	85	107	NA	38	54	NA	17	81	NA	NA	Load forecast under review
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	218	229	Diverge	210	203	Diverge	213	210	Redundant relay installation recommended in 2018-2019 TPP
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP

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				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
Green Valley 115/60 Transformer #1	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLSNW-DOLAN RD 115KV [0]	P6	N-1-1	69	83	115	59	59	79	42	14	82	52	51	Continue to monitor
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	40	49	Diverge	69	70	54	57	42	59	54	Project: Morgan Hill Area Reinforcement
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	69	83	115	59	59	79	51	14	82	52	51	Continue to monitor
Green Valley-Morgan Hill 115 kV Line	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
Green Valley-Watsonville 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	130	136	Diverge	160	150	Diverge	160	160	Redundant relay installation recommended in 2018-2019 TPP
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLSNW-DOLAN RD 115KV [0]	P6	N-1-1	69	83	115	59	59	79	42	14	82	52	51	Continue to monitor
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	32	41	Diverge	42	46	133	40	33	92	133	Project: Morgan Hill Area Reinforcement
Lagunitas 60 kV Tap	Base Case	P0	Base Case	66	90	158	51	69	114	38	20	91	32	38	Continue to monitor
	MLPB2CTG3 18.00KV & MLPB2CTG4 18.00KV & MLPB25TG2 18.00KV GEN UNITS	P1	N-1	58	80	139	48	64	114	34	18	80	29	34	Continue to monitor
	MOSSLSNW SVD=V	P1	N-1	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	MOSSLSNW 115KV - MIDDLE BREAKER BAY 7	P2-3	Non-Bus-Tie-Breaker Fault	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	MOSSLSNW 115KV - MIDDLE BREAKER BAY 1	P2-3	Non-Bus-Tie-Breaker Fault	58	80	137	48	64	114	34	18	80	29	34	Continue to monitor
	MOSSLSNW 230KV - MIDDLE BREAKER BAY 7	P2-3	Non-Bus-Tie-Breaker Fault	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	HOLLISTER SECTION 1E & HOLST D SECTION 1D 115KV	P2-4	Bus-Tie-Breaker Fault	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	170	177	Diverge	201	205	Diverge	218	201	Redundant relay installation recommended in 2018-2019 TPP
	HOLLISTER 115KV BUS D (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	HOLLISTER 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	81	88	Diverge	92	92	14	65	87	185	258	Project: Morgan Hill Area Reinforcement
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	81	88	Diverge	92	92	258	65	87	184	258	Project: Morgan Hill Area Reinforcement
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	66	85	164	51	69	110	38	20	85	32	38	Continue to monitor
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	58	80	147	48	64	114	34	18	80	29	34	Continue to monitor
	CRAZY HORSE - SAN BENITO & CRAZY HORSE - HOLLISTER 115 KV LINES	P7	DCTL	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor
	SAN BENITO - HOLLISTER & CRAZY HORSE - HOLLISTER 115 KV LINES	P7	DCTL	58	80	138	48	64	114	34	18	80	29	34	Continue to monitor

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				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
Mesa-Divide 115 kV Line No. 1	MESA-SISQUOC 115KV [2460] & MESA_PGE-SNTA MRA 115KV [0]	P6	N-1-1	77	76	105	34	35	37	67	30	78	21	35	Continue to monitor
Mesa-Divide 115 kV Line No. 2	MESA-SISQUOC 115KV [2460] & MESA_PGE-SNTA MRA 115KV [0]	P6	N-1-1	77	76	105	34	35	37	67	30	78	21	35	Continue to monitor
Mesa-Santa Maria 115 kV Line	MORROBAY 230/115KV TB 6 & CALLENDER SW STA-MESA 115KV [1210]	P6	N-1-1	102	96	128	91	93	118	89	30	99	59	89	Operations Solution / Generation Redispatch
	MESA-SISQUOC AND CALLENDER SW STA-MESA 115 KV LINES	P7	DCTL	83	78	103	69	70	84	70	27	82	49	69	Continue to monitor
Morro Bay 230/115 Transformer No. 6	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	90	116	Diverge	Diverge	Existing UVLS / Project: Mesa BESS
	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	78	Diverge	Diverge	Diverge	Diverge	39	Diverge	Diverge	Diverge	Existing UVLS / Project: Mesa BESS
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	60	57	78	47	48	124	116	67	57	69	126	Redundant relay installation recommended in 2022-2023 TPP
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	78	Diverge	Diverge	Diverge	Diverge	41	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MESA PGE 230/115KV TB 2 & MESA PGE 230/115KV TB 3	P6	N-1-1	60	Diverge	78	122	124	154	114	65	135	67	123	Existing UVLS / Project: Mesa BESS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	59	55	Diverge	Diverge	Diverge	Diverge	Diverge	102	126	113	Diverge	Existing UVLS / Project: Mesa BESS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	60	56	78	105	Diverge	Diverge	Diverge	97	124	112	Diverge	Existing UVLS / Project: Mesa BESS
Morro Bay-Mesa 230 kV Line	DIABLO-MESA 230KV [4620] & MORROBAY 230/115KV TB 6	P6	N-1-1	70	65	102	58	59	72	80	47	58	53	82	Continue to monitor
Morro Bay-San Louis Obispo 115 kV Line No. 1	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	57	76	Diverge	Diverge	Existing UVLS
	MORRO BAY-MESA 230KV [5290] & MORRO BAY-DIABLO 230KV [5260]	P6	N-1-1	30	28	Diverge	107	31	Diverge	27	62	76	73	28	Existing UVLS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	35	32	Diverge	Diverge	Diverge	Diverge	Diverge	64	79	73	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	31	28	40	77	Diverge	Diverge	Diverge	61	74	72	Diverge	Existing UVLS
Morro Bay-San Louis Obispo 115 kV Line No. 2	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	58	78	Diverge	Diverge	Existing UVLS
	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	48	Diverge	Diverge	Diverge	Diverge	25	Diverge	Diverge	Diverge	Existing UVLS
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	37	35	47	35	36	102	74	43	35	45	81	Redundant relay installation recommended in 2022-2023 TPP
	MESA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	47	Diverge	Diverge	Diverge	Diverge	26	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MORRO BAY-MESA 230KV [5290] & MORRO BAY-DIABLO 230KV [5260]	P6	N-1-1	37	33	Diverge	114	Diverge	Diverge	Diverge	63	81	73	Diverge	Existing UVLS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	37	34	Diverge	Diverge	Diverge	Diverge	Diverge	64	81	73	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	37	34	47	84	Diverge	Diverge	Diverge	62	79	72	Diverge	Existing UVLS
Moss Landing 230/115 kV Bank #1	MOSSLNSW 230/115KV TB 4 & MOSSLNSW 230/115KV TB 2	P6	N-1-1	87	89	113	46	83	101	49	45	79	70	77	Continue to monitor
Moss Landing 230/115 kV Bank #2	MOSSLNSW 230/115KV TB 4 & MOSSLNSW 230/115KV TB 1	P6	N-1-1	87	89	113	76	83	101	49	45	79	70	77	Continue to monitor
Moss Landing 230/115 kV Bank #3	MOSSLNSW 230/115KV TB 4 & MOSSLNSW 230/115KV TB 1	P6	N-1-1	87	89	113	76	83	101	49	45	79	70	77	Continue to monitor
Moss Landing 230/115 kV Bank #4	MOSSLNSW 230/115KV TB 2 & MOSSLNSW 230/115KV TB 1	P6	N-1-1	98	100	125	84	92	112	66	60	88	79	88	Operations Solution / Generation Redispatch

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
Moss Landing-Green Valley #2 115 kV Line	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & METCALF-MOSS LANDING #1 230KV [5100]	P6	N-1-1	78	68	85	79	93	102	31	55	72	26	54	Continue to monitor
Moss Landing-Salinas #1 115 kV Line	MOSS LANDING-SALINAS #2 115KV [2890]	P1	N-1	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	MOSS LANDING-SALINAS #2 115KV [2890] (SALINAS-DOLAN J2)	P2-1	Line Section w/o Fault	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	MOSS LANDING-SALINAS #2 115KV [2890] (MOSSLNSW-DOLAN J2)	P2-1	Line Section w/o Fault	74	82	103	55	60	78	47	21	83	50	47	Continue to monitor
	SALINAS 115KV - MIDDLE BREAKER BAY 4	P2-3	Non-Bus-Tie-Breaker Fault	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	74	82	103	56	61	78	47	21	83	50	47	Continue to monitor
	MOSS LANDING-CRAZY HORSE CANYON #2 115KV [2983] & MOSS LANDING-CRAZY HORSE CANYON #1 115KV [2930] MOAS OPENED ON PRNDL J1_PRUNEDLE	P6	N-1-1	97	109	89	70	76	100	41	26	109	67	61	Operations Solution / Generation Redispatch
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	97	109	138	70	76	100	61	26	109	67	61	Potential New RAS
Moss Landing-Salinas #2 115 kV Line	SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P1	N-1	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 2	P2-3	Non-Bus-Tie-Breaker Fault	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	DOLAN RD - 1D 115KV & SALINAS-MOSSLNSW-DOLAN RD LINE	P2-3	Non-Bus-Tie-Breaker Fault	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	DOLAN ROAD 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	74	82	103	55	61	78	47	21	83	50	47	Continue to monitor
	MOSS LANDING-CRAZY HORSE CANYON #1 115KV [2930] MOAS OPENED ON PRNDL J1_PRUNEDLE & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	97	108	103	71	78	101	47	26	109	65	61	Operations Solution / Generation Redispatch
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	87	99	126	62	68	90	56	23	99	58	56	Continue to monitor
Oceano-Callender Sw. Sta 115 kV Line	MORROBAY 230/115KV TB 6	P1	N-1	69	63	101	55	56	80	62	3	66	31	61	Continue to monitor
	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	145	132	Diverge	Diverge	Existing UVLS
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	8	8	3	5	5	228	109	89	8	51	120	Redundant relay installation recommended in 2022-2023 TPP
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MORRO BAY-DIABLO 230KV [5260] & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	8	8	67	Diverge	Diverge	Diverge	Diverge	144	124	135	Diverge	Existing UVLS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	8	8	Diverge	Diverge	Diverge	Diverge	Diverge	144	124	135	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	8	8	3	83	Diverge	Diverge	Diverge	138	111	127	Diverge	Existing UVLS
Paso Robles-Templeton 70 kV Line	ESTRELLA 230/70KV TB 1	P1	N-1	NA	85	103	NA	47	56	NA	11	86	NA	NA	Load forecast under review
	ESTRELLA 230KV - MIDDLE BREAKER BAY 1	P2-3	Non-Bus-Tie-Breaker Fault	NA	84	102	NA	47	55	NA	11	85	NA	NA	Load forecast under review
	ESTRELLA 230KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	NA	85	103	NA	47	56	NA	11	86	NA	NA	Load forecast under review
Salinas 115/60 kV Bank #2	SALINAS 115/60KV TB 3	P1	N-1	76	97	125	59	69	92	45	29	98	55	45	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
Salinas 115/60 kV Bank #2	SALINAS 115KV SECTION 2D	P2-2	Bus Fault	76	97	125	59	69	92	45	29	98	55	45	Continue to monitor
Salinas 115/60 kV Bank #3	SALINAS 115/60KV TB 2	P1	N-1	71	91	118	56	65	86	43	27	92	52	43	Continue to monitor
	SALINAS 115KV SECTION 1D	P2-2	Bus Fault	71	91	118	56	65	86	43	27	92	52	43	Continue to monitor
	Base Case	P0	Base Case	104	132	147	47	53	62	60	48	132	94	60	Review Project: Salinas-Firestone #1 and #2 reconductor
Salinas-Firestone #1 60 kV Line	SALINAS-FIRESTONE #2 60KV [7910]	P1	N-1	133	180	197	65	75	86	74	64	181	121	74	Review Project: Salinas-Firestone #1 and #2 reconductor
	SALINAS 115/60KV TB 3	P1	N-1	103	138	159	53	61	74	59	49	139	94	59	Review Project: Salinas-Firestone #1 and #2 reconductor
	MOSSLNSW SVD=V	P1	N-1	104	132	127	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	SALINAS 115KV SECTION 2D	P2-2	Bus Fault	103	138	159	53	61	74	59	49	139	94	59	Review Project: Salinas-Firestone #1 and #2 reconductor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 7	P2-3	Non-Bus-Tie-Breaker Fault	104	132	127	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	MOSSLNSW 115KV - MIDDLE BREAKER BAY 1	P2-3	Non-Bus-Tie-Breaker Fault	104	132	126	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	MOSSLNSW 230KV - MIDDLE BREAKER BAY 7	P2-3	Non-Bus-Tie-Breaker Fault	104	132	127	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	HOLLISTR SECTION 1E & HOLST D SECTION 1D 115KV	P2-4	Bus-Tie-Breaker Fault	104	132	126	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	35	36	Diverge	47	66	Diverge	63	47	Redundant relay installation recommended in 2018-2019 TPP
	HOLLISTR 115KV BUS D (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	104	132	126	44	49	58	53	42	132	83	53	Install redundant relay
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	HOLLISTER 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	104	132	126	44	49	58	53	42	132	83	53	Redundant battery supply installation recommended in 2022-2023 TPP
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	104	123	150	44	49	58	53	42	123	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	104	132	135	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	CRAZY HORSE - SAN BENITO & CRAZY HORSE - HOLLISTER 115 KV LINES	P7	DCTL	104	132	126	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
	SAN BENITO - HOLLISTER & CRAZY HORSE - HOLLISTER 115 KV LINES	P7	DCTL	104	132	126	44	49	58	53	42	132	83	53	Review Project: Salinas-Firestone #1 and #2 reconductor
Salinas-Firestone #2 60 kV Line	SALINAS1-FIRESTNE 60KV [0]	P1	N-1	130	179	207	63	73	91	68	57	181	117	68	Review Project: Salinas-Firestone #1 and #2 reconductor
	SALINAS-FIRESTONE #2 60KV [7910]	P1	N-1	160	116	120	91	48	51	82	40	116	150	82	Review Project: Salinas-Firestone #1 and #2 reconductor
	SALINAS-FIRESTONE #2 60KV [7910] (2)	P1	N-1	161	117	121	92	48	51	82	40	118	151	82	Review Project: Salinas-Firestone #1 and #2 reconductor
Salinas-Laureles 60 kV Line	Base Case	P0	Base Case	71	72	101	61	64	81	45	9	73	23	45	Continue to monitor
	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	71	68	104	61	64	78	45	9	68	23	45	Continue to monitor
San Luis Obispo-Oceano 115 kV Line	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	118	129	Diverge	Diverge	Existing UVLS
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	44	40	52	46	47	250	113	76	41	50	124	Redundant relay installation recommended in 2022-2023 TPP
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundant Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
	MESA PGE 230/115KV TB 3 & MESA PGE 230/115KV TB 2	P6	N-1-1	44	Diverge	53	131	133	151	113	76	124	50	123	Existing UVLS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	45	40	Diverge	Diverge	Diverge	Diverge	Diverge	117	121	112	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	44	40	52	106	Diverge	Diverge	Diverge	113	115	107	Diverge	Existing UVLS
San Luis Obispo-Santa Maria 115 kV Line	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	163	168	Diverge	Diverge	Existing UVLS
	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	NA	Diverge	Diverge	Diverge	Diverge	89	Diverge	Diverge	Diverge	Existing UVLS
	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	NA	NA	NA	NA	NA	NA	146	104	NA	69	160	Redundant relay installation recommended in 2022-2023 TPP
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(Failure of NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MESA 230-115KV BATT(Failure of NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	NA	Diverge	Diverge	Diverge	Diverge	88	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MORRO BAY-MESA 230KV [5290] & MORRO BAY-DIABLO 230KV [5260]	P6	N-1-1	NA	NA	Diverge	186	Diverge	Diverge	Diverge	159	158	151	Diverge	Existing UVLS
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	NA	NA	Diverge	Diverge	Diverge	Diverge	Diverge	161	158	152	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	NA	NA	NA	125	Diverge	Diverge	Diverge	155	149	145	Diverge	Existing UVLS
San Miguel-Paso Robles 70 kV Line	PASO ROBLES-TEMPLETON 70KV [9400]	P1	N-1	Diverge	NA	NA	1	NA	NA	2	NA	NA	1	2	Project: Estrella Substation Project
	TEMPLETON 230-70KV BATT(Failure of NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	NA	NA	1	NA	NA	2	NA	NA	1	2	Project: Estrella Substation Project
	TEMPLETON-ATASCADERO & TEMPLETON-PASO ROBLES 70 KV LINES	P7	DCTL	Diverge	NA	NA	1	NA	NA	2	NA	NA	1	2	Project: Estrella Substation Project
Santa Maria-Sisquoc 115 kV Line	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	NA	Diverge	Diverge	Diverge	Diverge	32	Diverge	Diverge	Diverge	Existing UVLS
	MESA 230-115KV BATT(Failure of NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	NA	Diverge	Diverge	Diverge	Diverge	53	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
Santa Ynez Sw. Sta. - Cabrillo 115 kV Line	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	149	154	161	32	33	40	129	13	155	34	42	Operations Solution / Generation Redispatch
Sisquoc-Santa Ynez Sw.Sta. 115 kV Line	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	NA	Diverge	Diverge	Diverge	Diverge	28	Diverge	Diverge	Diverge	Existing UVLS
	MESA 230-115KV BATT(Failure of NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	NA	Diverge	Diverge	Diverge	Diverge	28	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	172	175	174	24	25	28	178	10	176	19	35	Review Project: South of Mesa
	MESA-DIVIDE #1 AND #2 115 KV LINES	P7	DCTL	101	98	91	114	112	116	83	104	99	37	103	Review Project: South of Mesa
	MORROBAY 230KV - SECTION 2D & 2E	P2-4	Bus-Tie-Breaker Fault	85	NA	NA	81	NA	NA	102	NA	NA	28	103	Existing UVLS
	MORROBAY 230KV - SECTION 1D & 1E	P2-4	Bus-Tie-Breaker Fault	91	87	122	92	87	64	109	71	83	32	110	Existing UVLS
	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	106	112	Diverge	Diverge	Existing UVLS
	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(Failure of NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
Temblor-San Luis Obispo 115 kV Line	SOLAR SW STA 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	84	81	110	100	88	35	116	76	76	29	118	Redundant battery supply installation recommended in 2022-2023 TPP
	CALIENTE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	82	79	103	100	88	34	117	77	75	24	117	Operations Solution / Generation Redispatch
	MORROBAY 230/115KV TB 6 & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	100	94	134	95	89	75	117	73	87	36	118	Operations Solution / Generation Redispatch
	SOLARSS-CALNTESS 230 KV LINE NO. 1 & 2	P7	DCTL	82	79	104	100	88	35	117	77	75	29	117	Continue to monitor / Generation Redispatch
	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	100	79	102	72	67	45	94	56	74	18	96	Continue to monitor
	MORROBAY-SOLARSS 230 KV LINE NO. 1 & 2	P7	DCTL	84	81	110	100	89	35	117	76	76	39	118	Continue to monitor / Generation Redispatch
	MIDWAY-CALNTESS 230 KV LINE NO. 1 & 2	P7	DCTL	82	79	94	100	88	32	117	77	75	24	117	Continue to monitor / Generation Redispatch
	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	48	46	Diverge	Diverge	Diverge	Diverge	Diverge	82	84	39	Diverge	Existing UVLS
	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	46	45	57	82	Diverge	Diverge	Diverge	80	83	38	Diverge	Existing UVLS
Templeton 230/70 kV Transformer	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
Templeton-Atascadero 70 kV Line	MORRO BAY 230KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant relay installation recommended in 2020-2021 TPP
	MORRO BAY SW 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP
Watsonville-Salinas 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	176	183	Diverge	216	203	Diverge	216	216	Redundant relay installation recommended in 2018-2019 TPP
	MOSS LANDING 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	Diverge	Diverge	NA	NA	Redundant battery supply installation recommended in 2022-2023 TPP
	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	81	88	Diverge	92	92	27	64	87	187	260	Project: Morgan Hill Area Reinforcement
	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	81	88	Diverge	92	92	261	64	87	187	261	Project: Morgan Hill Area Reinforcement

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
FIRESTONE 60 kV	Base Case	P0	Base Case	0.95	0.94	0.94	0.96	0.97	0.96	0.99	1.01	0.94	0.95	0.99	Potential new voltage support
GABILAN 60 kV	Base Case	P0	Base Case	0.97	0.96	0.95	0.97	0.97	0.95	1.00	1.02	0.96	0.98	1.00	Continue to monitor
GONZALES 60 kV	Base Case	P0	Base Case	0.94	0.94	0.93	0.99	0.99	0.97	0.98	1.05	0.94	0.97	0.98	Under review
HOLLISTER 115 kV	Base Case	P0	Base Case	0.97	0.97	0.94	1.00	0.99	0.97	1.00	1.04	0.97	0.99	1.00	Continue to monitor
HOLSTD 115 kV	Base Case	P0	Base Case	0.97	0.97	0.94	1.00	0.99	0.98	1.00	1.04	0.97	0.99	1.00	Continue to monitor
LAURELES 60 kV	Base Case	P0	Base Case	0.95	0.95	0.92	0.95	0.95	0.93	0.98	1.03	0.95	0.98	0.98	Under review
LGNTS J1 60 kV	Base Case	P0	Base Case	0.97	0.96	0.95	0.97	0.97	0.95	1.00	1.02	0.96	0.98	1.00	Continue to monitor
OTTER 60 kV	Base Case	P0	Base Case	0.95	0.95	0.90	0.95	0.94	0.92	0.97	1.02	0.95	0.98	0.97	Under review
RSVTN RD 60 kV	Base Case	P0	Base Case	0.96	0.96	0.95	0.96	0.96	0.96	0.99	1.02	0.96	0.98	0.99	Continue to monitor
SAN MIGL 70 kV	Base Case	P0	Base Case	0.93	0.97	0.97	0.95	0.98	0.98	0.97	1.01	0.97	0.95	0.98	Project: Estrella Substation Project
SPENCE 60 kV	Base Case	P0	Base Case	0.94	0.94	0.93	0.96	0.96	0.96	0.98	1.01	0.94	0.94	0.98	Potential new voltage support
HOLLISTER 115 kV	CRAZY HORSE CANYON-HOLLISTER 115KV [2153]	P1	N-1	0.94	0.94	0.89	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLSTD 115 kV	CRAZY HORSE CANYON-HOLLISTER 115KV [2153]	P1	N-1	0.94	0.94	0.89	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLLISTER 115 kV	CRAZY HORSE CANYON-SAN BENITO 115KV [2152]	P1	N-1	0.93	0.93	0.88	0.97	0.97	0.94	0.98	1.04	0.93	0.96	0.98	Continue to monitor
HOLSTD 115 kV	CRAZY HORSE CANYON-SAN BENITO 115KV [2152]	P1	N-1	0.93	0.93	0.88	0.97	0.97	0.94	0.98	1.04	0.93	0.96	0.98	Continue to monitor
SNBENITO 115 kV	CRAZY HORSE CANYON-SAN BENITO 115KV [2152]	P1	N-1	0.93	0.92	0.88	0.97	0.97	0.94	0.98	1.04	0.93	0.95	0.98	Continue to monitor
SAN MIGL 70 kV	ESTRELLA 230/70KV TB 1	P1	N-1	N/A	0.90	0.89	N/A	0.94	0.92	N/A	1.03	0.90	N/A	N/A	Consider distribution load transfer from San Miguel to Paso Robles and/ or Union.
MESA PGE 230 kV	MORRO BAY-MESA 230KV [5290]	P1	N-1	0.97	1.00	0.89	1.01	1.01	1.04	0.99	1.03	1.03	1.02	1.00	Continue to monitor
PSA RBL 70 kV	PASO ROBLES-TEMPLETON 70KV [9400]	P1	N-1	Diverge	0.96	0.94	0.83	0.97	0.97	0.90	1.02	0.96	0.81	0.90	Project: Estrella Substation Project
SAN MIGL 70 kV	PASO ROBLES-TEMPLETON 70KV [9400]	P1	N-1	Diverge	0.97	0.97	0.83	0.98	0.98	0.90	1.01	0.97	0.81	0.90	Project: Estrella Substation Project
FIRESTONE 60 kV	SALINAS-FIRESTONE 60KV [0]	P1	N-1	0.88	0.87	0.86	0.92	0.93	0.93	0.96	1.01	0.87	0.89	0.96	Potential new voltage support
SPENCE 60 kV	SALINAS-FIRESTONE 60KV [0]	P1	N-1	0.88	0.87	0.86	0.92	0.93	0.93	0.96	1.01	0.87	0.89	0.96	Potential new voltage support
SPENCE 60 kV	SALINAS-FIRESTONE #2 60KV [7910]	P1	N-1	0.90	0.89	0.89	0.93	0.94	0.94	0.96	1.01	0.89	0.91	0.96	Potential new voltage support
SPENCE 60 kV	SALINAS-FIRESTONE #2 60KV [7910] (2)	P1	N-1	0.89	0.88	0.88	0.92	0.94	0.93	0.96	1.01	0.88	0.90	0.96	Potential new voltage support
HOLLISTER 115 kV	SAN BENITO-HOLLISTER 115KV [2901]	P1	N-1	0.94	0.94	0.90	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLSTD 115 kV	SAN BENITO-HOLLISTER 115KV [2901]	P1	N-1	0.94	0.94	0.90	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
SAN MIGL 70 kV	SAN MIGL-UNIONPGAE #1 70KV [0]	P1	N-1	N/A	0.65	0.59	N/A	0.80	0.78	N/A	0.98	0.65	N/A	N/A	Consider distribution load transfer from San Miguel to Paso Robles and/ or Union.
SAN MIGL 70 kV	SAN MIGUEL-PASO ROBLES 70KV [9390]	P1	N-1	0.66	N/A	N/A	0.80	N/A	N/A	0.87	N/A	N/A	0.79	0.89	Project: Estrella Substation Project
PERRY 70 kV	SN LS OB 115/70KV TB 3	P1	N-1	0.94	0.93	0.89	0.96	0.97	0.94	0.95	1.03	0.93	0.96	0.95	Continue to monitor
SURF 115 kV	DIVIDE-CABRILLO #1 115KV [1380] (SURF JCT-PURSMANJ2)	P2-1	Line Section w/o Fault	0.90	0.96	0.96	0.98	1.04	1.03	0.95	1.03	0.97	0.93	0.96	Under review
HOLLISTER 115 kV	SAN BENITO-HOLLISTER 115KV [2901] (HLST_TP-HOLLISTER)	P2-1	Line Section w/o Fault	0.94	0.94	0.90	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLSTD 115 kV	SAN BENITO-HOLLISTER 115KV [2901] (HLST_TP-HOLLISTER)	P2-1	Line Section w/o Fault	0.94	0.94	0.90	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLLISTER 115 kV	SAN BENITO-HOLLISTER 115KV [2901] (SNBENITO-HLST_TP)	P2-1	Line Section w/o Fault	0.94	0.94	0.90	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLSTD 115 kV	SAN BENITO-HOLLISTER 115KV [2901] (SNBENITO-HLST_TP)	P2-1	Line Section w/o Fault	0.94	0.94	0.90	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
CALLENDERSS 115 kV	MESAPGE 115KV SECTION 1D	P2-2	Bus Fault	0.92	0.93	0.86	0.97	0.97	0.96	0.91	1.03	0.94	0.98	0.91	continue to monitor
OCEANO 115 kV	MESAPGE 115KV SECTION 1D	P2-2	Bus Fault	0.92	0.93	0.86	0.97	0.97	0.97	0.91	1.03	0.94	0.98	0.91	Continue to monitor
UNIONOIL 115 kV	MESAPGE 115KV SECTION 1D	P2-2	Bus Fault	0.92	0.93	0.86	0.97	0.97	0.96	0.91	1.03	0.94	0.98	0.91	Continue to monitor
MESA PGE 230 kV	MORROBAY 230KV SECTION 2E	P2-2	Bus Fault	0.95	0.98	0.88	1.02	1.01	1.03	0.97	1.02	1.03	1.01	0.98	Continue to monitor
PERRY 70 kV	SN LS OB 115KV SECTION MA	P2-2	Bus Fault	0.93	0.93	0.89	0.96	0.97	0.94	0.94	1.03	0.93	0.96	0.95	Continue to monitor
GONZALES 60 kV	CRZYHRS 115KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	0.89	0.89	0.88	0.97	0.97	0.93	0.95	1.05	0.89	0.94	0.95	Under review
HOLLISTER 115 kV	CRZYHRS 115KV - MIDDLE BREAKER BAY 4	P2-3	Non-Bus-Tie-Breaker Fault	0.94	0.94	0.89	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor
HOLSTD 115 kV	CRZYHRS 115KV - MIDDLE BREAKER BAY 4	P2-3	Non-Bus-Tie-Breaker Fault	0.94	0.94	0.89	0.98	0.97	0.94	0.99	1.04	0.94	0.96	0.99	Continue to monitor

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
HOLLISTR 115 kV	CRZYHRS 115KV - MIDDLE BREAKER BAY 5	P2-3	Non-Bus-Tie-Breaker Fault	0.91	0.90	0.85	0.96	0.95	0.92	0.97	1.04	0.91	0.94	0.97	Continue to monitor
HOLSTD 115 kV	CRZYHRS 115KV - MIDDLE BREAKER BAY 5	P2-3	Non-Bus-Tie-Breaker Fault	0.91	0.90	0.85	0.96	0.96	0.92	0.97	1.04	0.91	0.94	0.97	Continue to monitor
SNBENITO 115 kV	CRZYHRS 115KV - MIDDLE BREAKER BAY 5	P2-3	Non-Bus-Tie-Breaker Fault	0.91	0.90	0.84	0.96	0.95	0.92	0.97	1.04	0.90	0.94	0.97	Potential new RAS
SAN MIGL 70 kV	ESTRELLA 230KV - MIDDLE BREAKER BAY 1	P2-3	Non-Bus-Tie-Breaker Fault	N/A	0.90	0.88	N/A	0.93	0.92	N/A	1.03	0.90	N/A	N/A	Consider distribution load transfer from San Miguel to Paso Robles and/ or Union.
SAN MIGL 70 kV	ESTRELLA 230KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	N/A	0.90	0.89	N/A	0.94	0.92	N/A	1.03	0.90	N/A	N/A	Consider distribution load transfer from San Miguel to Paso Robles and/ or Union.
MESA PGE 230 kV	MESA PGE 230KV - MIDDLE BREAKER BAY 3	P2-3	Non-Bus-Tie-Breaker Fault	0.97	1.00	0.89	1.00	1.01	1.03	0.98	1.03	1.03	1.02	1.00	Continue to monitor
CALLENDERSS 115 kV	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2-3	Non-Bus-Tie-Breaker Fault	0.92	0.93	0.86	0.97	0.97	0.97	0.91	1.03	0.94	0.98	0.91	continue to monitor
OCEANO 115 kV	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2-3	Non-Bus-Tie-Breaker Fault	0.92	0.93	0.86	0.97	0.97	0.97	0.91	1.03	0.94	0.98	0.92	Continue to monitor
UNIONOIL 115 kV	MESA_PGE - 1D 115KV & MESA_PGE-SNTA MRA LINE	P2-3	Non-Bus-Tie-Breaker Fault	0.92	0.93	0.86	0.97	0.97	0.97	0.91	1.03	0.94	0.98	0.91	Continue to monitor
PERRY 70 kV	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #1 LINE	P2-3	Non-Bus-Tie-Breaker Fault	0.93	0.93	0.89	0.96	0.97	0.94	0.95	1.03	0.93	0.96	0.95	Continue to monitor
PERRY 70 kV	SN LS OB - MA 115KV & MORRO BAY-SAN LUIS OBISPO #2 LINE	P2-3	Non-Bus-Tie-Breaker Fault	0.94	0.93	0.89	0.96	0.97	0.94	0.94	1.03	0.93	0.96	0.95	Continue to monitor
PERRY 70 kV	SN LS OB - MA 115KV & TEMPLOR-SAN LUIS OBISPO LINE	P2-3	Non-Bus-Tie-Breaker Fault	0.93	0.93	0.89	0.96	0.97	0.94	0.94	1.03	0.93	0.96	0.95	Continue to monitor
CALLENDERSS 115 kV	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	0.89	Diverge	Diverge	Diverge	Diverge	1.03	Diverge	Diverge	Diverge	Existing UVLS
OCEANO 115 kV	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	0.89	Diverge	Diverge	Diverge	Diverge	1.03	Diverge	Diverge	Diverge	Existing UVLS
UNIONOIL 115 kV	MESA_PGE 115KV - SECTION 2D & 1D	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	0.89	Diverge	Diverge	Diverge	Diverge	1.03	Diverge	Diverge	Diverge	Existing UVLS
MESA PGE 230 kV	MORROBAY 230KV - SECTION 1D & 1E	P2-4	Bus-Tie-Breaker Fault	1.00	1.00	0.90	1.01	1.01	1.01	1.00	1.03	1.03	1.02	1.00	Continue to monitor
MESA PGE 230 kV	MORROBAY 230KV - SECTION 1E & 2E	P2-4	Bus-Tie-Breaker Fault	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	Diverge	1.03	0.87	Diverge	Diverge	Existing UVLS
MESA PGE 230 kV	MORROBAY 230KV - SECTION 2D & 2E	P2-4	Bus-Tie-Breaker Fault	0.89	N/A	N/A	1.03	N/A	N/A	0.92	N/A	N/A	1.01	0.92	Existing UVLS
PSA RBL5 70 kV	DIABLOCNYN1 25.00KV GEN UNIT 1 & PASO ROBLES-TEMPLETON 70KV [9400]	P3	G-1/ N-1	Diverge	0.96	N/A	0.83	0.97	N/A	0.89	1.02	0.96	0.81	0.90	Project: Estrella Substation Project
SAN MIGL 70 kV	DIABLOCNYN1 25.00KV GEN UNIT 1 & PASO ROBLES-TEMPLETON 70KV [9400]	P3	G-1/ N-1	Diverge	0.97	N/A	0.83	0.98	N/A	0.89	1.01	0.96	0.81	0.90	Project: Estrella Substation Project
OTTER 60 kV	KNGCTYCGNSTG 13.80KV & KNGCTYCGNCTG 13.80KV GEN UNITS & CRAZY HORSE CANYON-SALINAS-SOLEDAD #1 115KV [2900]	P3	G-1/ N-1	0.95	0.95	0.89	0.95	0.94	0.91	0.97	1.02	0.94	0.98	0.97	Continue to monitor
SAN MIGL 70 kV	KNGCTYCGNSTG 13.80KV & KNGCTYCGNCTG 13.80KV GEN UNITS & SAN MIGL-UNIONPGAE #1 70KV [0]	P3	G-1/ N-1	N/A	0.65	0.59	N/A	0.80	0.78	N/A	0.98	0.64	N/A	N/A	Consider distribution load transfer from San Miguel to Paso Robles and/ or Union.
FIRESTNE 60 kV	MLPB2CTG3 18.00KV & MLPB2CTG4 18.00KV & MLPB2STG2 18.00KV GEN UNITS & SALINAS1-FIRESTNE 60KV [0]	P3	G-1/ N-1	0.88	0.87	0.86	0.92	0.93	0.93	0.96	1.01	0.87	0.89	0.96	Potential new voltage support
SPENCE 60 kV	MLPB2CTG3 18.00KV & MLPB2CTG4 18.00KV & MLPB2STG2 18.00KV GEN UNITS & SALINAS1-FIRESTNE 60KV [0]	P3	G-1/ N-1	0.88	0.87	0.86	0.92	0.93	0.93	0.96	1.01	0.87	0.89	0.96	Potential new voltage support
MESA PGE 230 kV	MORROBAY1-25 25.00KV GEN UNIT VP & MORRO BAY-MESA 230KV [5290]	P3	G-1/ N-1	N/A	N/A	0.89	N/A	N/A	1.04	N/A	N/A	N/A	N/A	N/A	Existing UVLS
CHVSANARDO 60 kV	SALNR GN 13.80KV GEN UNIT 1 & COBURN-OIL FIELDS #1 60KV [6410]	P3	G-1/ N-1	0.86	0.86	0.88	0.85	0.85	0.96	0.81	0.87	0.86	0.93	0.81	Operations Solution / Generation Redispatch
OILFLDS 60 kV	SALNR GN 13.80KV GEN UNIT 1 & COBURN-OIL FIELDS #1 60KV [6410]	P3	G-1/ N-1	0.87	0.87	0.89	0.87	0.86	1.03	0.82	0.88	0.86	0.93	0.82	Operations Solution / Generation Redispatch

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
SALN RVR 60 kV	SALNR GN 13.80KV GEN UNIT 1 & COBURN-OIL FIELDS #1 60KV [6410]	P3	G-1/ N-1	0.86	0.86	0.88	0.86	0.85	0.96	0.81	0.87	0.86	0.93	0.82	Operations Solution / Generation Redispatch
SAN ARDO 60 kV	SALNR GN 13.80KV GEN UNIT 1 & COBURN-OIL FIELDS #1 60KV [6410]	P3	G-1/ N-1	0.96	0.96	1.02	0.97	0.97	1.03	0.88	0.98	0.96	0.97	0.88	Operations Solution / Generation Redispatch
SARG CYN 60 kV	SALNR GN 13.80KV GEN UNIT 1 & COBURN-OIL FIELDS #1 60KV [6410]	P3	G-1/ N-1	0.87	0.87	0.89	0.87	0.86	1.03	0.82	0.88	0.86	0.93	0.82	Operations Solution / Generation Redispatch
BUELLTON 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.38	0.92	0.99	N/A	0.93	0.89	Redundant relay installation recommended in 2022-2023 TPP
CABRILLO 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.39	0.94	1.00	N/A	0.95	0.91	Redundant relay installation recommended in 2022-2023 TPP
CALLENDERSS 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	0.95	0.95	0.90	0.98	0.98	0.52	0.94	0.99	0.95	0.97	0.91	Redundant relay installation recommended in 2022-2023 TPP
FAIRWAY 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.41	0.93	0.98	N/A	0.96	0.90	Redundant relay installation recommended in 2022-2023 TPP
FOOTHILL 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	0.98	0.98	0.95	1.01	1.01	0.85	0.96	1.02	0.98	0.99	0.95	Redundant relay installation recommended in 2022-2023 TPP
GAREY 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.41	0.94	0.99	N/A	0.96	0.91	Redundant relay installation recommended in 2022-2023 TPP
GOLDTREE 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	0.98	0.98	0.95	1.01	1.01	0.86	0.96	1.02	0.98	0.99	0.95	Redundant relay installation recommended in 2022-2023 TPP
MESA_PGE 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.43	0.95	0.98	N/A	0.97	0.92	Redundant relay installation recommended in 2022-2023 TPP
OCEANO 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	0.95	0.95	0.90	0.98	0.98	0.56	0.93	1.00	0.96	0.98	0.91	Redundant relay installation recommended in 2022-2023 TPP
PALMR 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.41	0.93	0.99	N/A	0.95	0.90	Redundant relay installation recommended in 2022-2023 TPP
S.M.ASSO 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.42	0.94	0.99	N/A	0.96	0.91	Redundant relay installation recommended in 2022-2023 TPP
SISQUOC 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.41	0.94	0.99	N/A	0.96	0.91	Redundant relay installation recommended in 2022-2023 TPP
SN LS OB 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	0.98	0.98	0.94	1.00	1.00	0.83	0.95	1.02	0.98	0.99	0.94	Redundant relay installation recommended in 2022-2023 TPP
SNTA MRA 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.41	0.93	0.98	N/A	0.96	0.90	Redundant relay installation recommended in 2022-2023 TPP
SNTA YNZ 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.38	0.92	0.99	N/A	0.93	0.89	Redundant relay installation recommended in 2022-2023 TPP
UNIONOIL 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	0.95	0.95	0.90	0.98	0.98	0.52	0.94	0.99	0.95	0.97	0.91	Redundant relay installation recommended in 2022-2023 TPP
ZACA 115 kV	MESA 230 KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	N/A	N/A	N/A	N/A	N/A	0.38	0.93	0.99	N/A	0.94	0.90	Redundant relay installation recommended in 2022-2023 TPP
OCEANO 115 kV	MESA 230-115KV BATT(FAILURE OF NON-REDUNDENT BATT)	P5	Non-Redundent Battery Supply	Diverge	Diverge	0.90	Diverge	Diverge	Diverge	Diverge	1.03	Diverge	Diverge	Diverge	Redundant battery supply installation recommended in 2022-2023 TPP

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
PERRY 70 kV	NO BF RELAY SAN LUIS OBISPO 115KV CB 112 132 142 152 OR 162	P5	No Bus Fault Relay	0.94	0.93	0.89	0.96	0.97	0.94	0.94	1.03	0.93	0.96	0.95	Continue to monitor
AGRILINK 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.81	0.81	Diverge	0.83	0.90	Diverge	0.83	0.83	Redundant relay installation recommended in 2018-2019 TPP
BNA VSTA 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.25	0.22	Diverge	0.30	0.47	Diverge	0.26	0.30	Redundant relay installation recommended in 2018-2019 TPP
BORONDA 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.26	0.23	Diverge	0.31	0.48	Diverge	0.27	0.31	Redundant relay installation recommended in 2018-2019 TPP
BRIGTANO 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.57	0.55	Diverge	0.59	0.70	Diverge	0.59	0.59	Redundant relay installation recommended in 2018-2019 TPP
ERTA 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.86	0.86	Diverge	0.87	0.94	Diverge	0.88	0.87	Redundant relay installation recommended in 2018-2019 TPP
FIRESTNE 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.24	0.21	Diverge	0.29	0.47	Diverge	0.25	0.29	Redundant relay installation recommended in 2018-2019 TPP
FRSHXPRS 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.25	0.22	Diverge	0.30	0.47	Diverge	0.26	0.30	Redundant relay installation recommended in 2018-2019 TPP
GABILAN 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.25	0.22	Diverge	0.30	0.48	Diverge	0.26	0.30	Redundant relay installation recommended in 2018-2019 TPP
GRANITEROCK 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.56	0.55	Diverge	0.59	0.70	Diverge	0.59	0.59	Redundant relay installation recommended in 2018-2019 TPP
GREENVALLEY 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.89	0.89	Diverge	0.90	0.96	Diverge	0.91	0.90	Redundant relay installation recommended in 2018-2019 TPP
IND.ACRE 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.26	0.23	Diverge	0.31	0.48	Diverge	0.27	0.31	Redundant relay installation recommended in 2018-2019 TPP
LAURELES 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.24	0.20	Diverge	0.29	0.49	Diverge	0.27	0.29	Redundant relay installation recommended in 2018-2019 TPP
LGNTS J1 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.25	0.22	Diverge	0.30	0.48	Diverge	0.26	0.30	Redundant relay installation recommended in 2018-2019 TPP
OTTER 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.23	0.20	Diverge	0.28	0.49	Diverge	0.27	0.28	Redundant relay installation recommended in 2018-2019 TPP
RSVTN RD 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.24	0.21	Diverge	0.30	0.49	Diverge	0.26	0.30	Redundant relay installation recommended in 2018-2019 TPP
SALINAS1 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.26	0.23	Diverge	0.31	0.48	Diverge	0.27	0.31	Redundant relay installation recommended in 2018-2019 TPP
SALINAS2 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.26	0.23	Diverge	0.31	0.48	Diverge	0.27	0.31	Redundant relay installation recommended in 2018-2019 TPP
SPENCE 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.24	0.21	Diverge	0.29	0.47	Diverge	0.24	0.29	Redundant relay installation recommended in 2018-2019 TPP
WTSNVLL 60 kV	SALINAS 115KV BAAH BUS #1 OR #2 (FAILURE OF NON-REDUNDENT RELAY)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	0.80	0.80	Diverge	0.82	0.89	Diverge	0.82	0.82	Redundant relay installation recommended in 2018-2019 TPP

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
PERRY 70 kV	SAN LUIS OBISPO 115KV BUS (FAILURE OF NON-REDUNDANT RELAY)	P5	Non-Redundent Relay	0.94	0.93	0.89	0.96	0.97	0.94	0.94	1.03	0.93	0.96	0.95	Continue to monitor
PSA RBL5 70 kV	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	Diverge	0.96	0.94	0.83	0.97	0.97	0.90	1.02	0.96	0.81	0.90	Project: Estrella Substation Project
SAN MIGL 70 kV	TEMPLETON 230-70KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent Battery Supply	Diverge	0.97	0.96	0.83	0.98	0.98	0.89	1.00	0.97	0.81	0.90	Project: Estrella Substation Project
CALLENDERS5 115 kV	CALLENDER SW STA-MESA 115KV [1210] & MORROBAY 230/115KV TB 6	P6	N-1-1	0.88	0.88	0.80	0.98	1.00	0.90	0.86	1.03	0.89	1.01	0.87	Potential Operations Solution / Generation Redispatch
OCEANO 115 kV	CALLENDER SW STA-MESA 115KV [1210] & MORROBAY 230/115KV TB 6	P6	N-1-1	0.88	0.89	0.80	1.01	0.99	0.90	0.86	1.04	0.89	1.00	0.87	Potential Operations Solution / Generation Redispatch
CHVSANARDO 60 kV	COBURN-LASAGUILASS #1 230KV [0] & MOSSLAND 500/230KV TB 9	P6	N-1-1	1.01	1.01	1.01	1.01	1.01	1.02	1.01	1.01	1.01	0.89	1.00	Sensitivity Only
ESTRELLA 230 kV	ESTRELLA-CALFLATSS5 #1 230KV [0] & MORROBAY-ESTRELLA #1 230KV [0]	P6	N-1-1	NA	0.89	0.85	NA	1.01	1.00	NA	1.04	1.00	NA	NA	Under review
MORROBAY 230 kV	ESTRELLA-CALFLATSS5 #1 230KV [0] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	NA	1.00	0.90	NA	1.01	1.02	NA	1.04	1.01	NA	NA	Under review
MESA PGE 230 kV	MESA_PGE SVD=V & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	0.87	0.88	0.83	Diverge	Diverge	Diverge	0.87	1.02	0.99	1.01	0.88	Under review
BUELLTON 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.64	0.64	0.58	1.00	1.02	1.02	0.71	1.04	0.64	0.99	1.00	Potential Operations Solution / Generation Redispatch
CABRILLO 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.78	0.79	0.73	1.01	1.03	1.03	0.82	1.03	0.79	1.00	1.01	Potential Operations Solution / Generation Redispatch
FAIRWAY 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.46	0.49	0.41	1.01	1.02	1.02	0.51	1.04	0.49	1.01	0.89	Under review
GAREY 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.47	0.51	0.43	1.02	1.02	1.03	0.53	1.04	0.50	1.01	1.02	Potential Operations Solution / Generation Redispatch
PALMR 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.50	0.52	0.45	1.02	1.03	1.03	0.56	1.04	0.52	1.00	1.01	Potential Operations Solution / Generation Redispatch
PUR5MAJ2 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.83	0.85	0.79	1.01	1.03	1.03	0.87	1.03	0.84	1.00	1.02	Potential Operations Solution / Generation Redispatch
SISQUOC 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.47	0.51	0.43	1.02	1.02	1.03	0.53	1.04	0.50	1.01	1.02	Potential Operations Solution / Generation Redispatch
SNTA MRA 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.46	0.49	0.40	1.02	1.02	1.03	0.50	1.04	0.48	1.02	0.90	Potential Operations Solution / Generation Redispatch
SNTA YNZ 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.63	0.64	0.58	1.00	1.02	1.02	0.71	1.04	0.63	0.98	1.00	Potential Operations Solution / Generation Redispatch
SURF 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.79	0.81	0.75	1.01	1.02	1.03	0.84	1.03	0.80	1.00	1.01	Potential Operations Solution / Generation Redispatch
ZACA 115 kV	MESA_PGE-SNTA MRA 115KV [0] & MESA-SISQUOC 115KV [2460]	P6	N-1-1	0.60	0.62	0.56	1.01	1.02	1.02	0.66	1.04	0.62	0.99	1.01	Potential Operations Solution / Generation Redispatch
MOSSLNSW 230 kV	METCALF-MOSS LANDING #2 230KV [5110] & MOSSLAND 500/230KV TB 9	P6	N-1-1	1.01	1.01	0.99	1.01	1.01	1.01	1.01	1.01	1.01	0.87	1.01	Sensitivity Only
DIABLOCN 230 kV	MORRO BAY-MESA 230KV [5290] & MORRO BAY-DIABLO 230KV [5260]	P6	N-1-1	1.04	1.03	Diverge	0.85	Diverge	Diverge	Diverge	1.03	1.05	1.04	Diverge	Existing UVLS
ATASCDRO 70 kV	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	0.79	1.00	0.99	1.02	1.01	1.01	0.99	1.03	1.00	1.00	0.99	Project: Estrella Substation Project
BAYWOOD 70 kV	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	0.88	0.99	0.98	1.01	1.00	0.99	0.99	1.02	0.99	1.00	0.99	Project: Estrella Substation Project
CAYUCOS 70 kV	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	0.84	0.99	0.97	1.01	1.00	0.99	0.99	1.02	0.98	0.99	0.99	Project: Estrella Substation Project
PERRY 70 kV	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	0.84	0.98	0.96	1.01	0.99	0.98	0.98	1.03	0.98	0.99	0.98	Project: Estrella Substation Project

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
PSA RBL5 70 kV	MORRO BAY-TEMPLETON 230KV [5933] & TEMPLETON-GATES 230KV [5934]	P6	N-1-1	0.65	0.98	0.98	0.89	1.00	1.00	0.98	1.03	0.98	0.88	0.98	Project: Estrella Substation Project
GOLDTREE 115 kV	MORROBAY 230/115KV TB 6 & CALLENDER SW STA-MESA 115KV [1210]	P6	N-1-1	0.99	0.90	0.84	1.00	1.01	1.02	0.90	1.04	0.99	1.00	0.90	Potential Operations Solution / Generation Redispatch
UNIONOIL 115 kV	MORROBAY 230/115KV TB 6 & CALLENDER SW STA-MESA 115KV [1210]	P6	N-1-1	0.88	0.88	0.81	0.98	0.99	0.89	0.86	1.03	0.89	0.99	0.86	Under review
FOOTHILL 115 kV	MORROBAY 230/115KV TB 6 & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	0.99	1.00	0.89	Diverge	Diverge	Diverge	Diverge	1.05	1.01	1.02	Diverge	Potential Operations Solution / Generation Redispatch
MORRO BY 115 kV	MORROBAY 230/115KV TB 6 & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	1.00	1.00	0.88	Diverge	Diverge	Diverge	Diverge	1.05	1.01	1.02	Diverge	Potential Operations Solution / Generation Redispatch
SN LS OB 115 kV	MORROBAY 230/115KV TB 6 & MORRO BAY-MESA 230KV [5290]	P6	N-1-1	0.99	1.00	0.89	Diverge	Diverge	Diverge	Diverge	1.05	0.97	1.02	Diverge	Potential Operations Solution / Generation Redispatch
HOLLISTR 115 kV	MOSS LANDING-CRAZY HORSE CANYON #1 115KV [2930] MOAS OPENED ON PRNDL J1_PRUNEDLE & MOSS LANDING-CRAZY HORSE CANYON #2 115KV [2983]	P6	N-1-1	0.90	0.87	0.82	0.99	0.98	0.90	0.99	1.04	0.88	0.98	0.99	Potential new RAS
HOLST D 115 kV	MOSS LANDING-CRAZY HORSE CANYON #1 115KV [2930] MOAS OPENED ON PRNDL J1_PRUNEDLE & MOSS LANDING-CRAZY HORSE CANYON #2 115KV [2983]	P6	N-1-1	0.90	0.87	0.82	0.99	0.98	0.90	0.99	1.05	0.88	0.98	0.99	Potential new RAS
SNBENITO 115 kV	MOSS LANDING-CRAZY HORSE CANYON #2 115KV [2983] & MOSS LANDING-CRAZY HORSE CANYON #1 115KV [2930] MOAS OPENED ON PRNDL J1_PRUNEDLE	P6	N-1-1	0.96	0.89	0.84	0.99	0.99	0.97	1.00	1.04	0.90	0.99	1.00	Potential new RAS
AGRILINK 60 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.00	0.99	Diverge	1.00	0.98	1.01	1.05	1.00	0.55	0.37	Project: Morgan Hill Area Reinforcement
BRIGTANO 60 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	0.97	0.97	Diverge	0.97	0.96	0.99	1.03	0.97	0.69	0.57	Project: Morgan Hill Area Reinforcement
CMP EVRS 115 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.00	1.01	Diverge	1.01	0.99	0.98	1.04	1.00	0.43	0.24	Project: Morgan Hill Area Reinforcement
ERTA 60 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.01	1.00	Diverge	1.01	0.99	1.01	1.06	1.01	0.52	0.34	Project: Morgan Hill Area Reinforcement
GRANITEROCK 60 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	0.97	0.96	Diverge	0.97	0.96	0.98	1.02	0.96	0.68	0.56	Project: Morgan Hill Area Reinforcement
GREENVALLEY 115 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.00	0.99	Diverge	1.00	0.98	0.99	1.04	0.99	0.43	0.25	Project: Morgan Hill Area Reinforcement
GREENVALLEY 60 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.02	1.01	Diverge	1.02	1.00	1.02	1.07	1.01	0.51	0.32	Project: Morgan Hill Area Reinforcement
PAUL SWT 115 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.00	1.01	Diverge	1.00	0.99	0.98	1.04	1.00	0.43	0.24	Project: Morgan Hill Area Reinforcement
ROB ROY 115 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.00	1.00	Diverge	1.00	0.99	0.98	1.04	1.00	0.43	0.24	Project: Morgan Hill Area Reinforcement
WTSNVLL 60 kV	MOSS LANDING-GREEN VALLEY #1 115KV [2850] & MOSS LANDING-GREEN VALLEY #2 115KV [2860]	P6	N-1-1	Diverge	1.00	0.99	Diverge	1.00	0.98	1.00	1.05	1.00	0.55	0.38	Project: Morgan Hill Area Reinforcement

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
BNA VSTA 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.96	0.90	0.82	0.97	0.97	0.96	0.98	1.01	0.95	0.96	0.98	Potential new voltage support
BORONDA 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.98	0.98	0.86	0.98	0.98	0.98	1.00	1.01	0.98	0.98	1.00	Continue to monitor
CAMPHORA 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.89	0.86	0.83	0.99	0.99	0.96	0.98	1.05	0.87	0.97	0.98	Under review
FIRESTNE 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.94	0.89	0.81	0.95	0.96	0.95	0.97	1.01	0.89	0.95	0.97	Potential new voltage support
FRSHXPRS 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.96	0.96	0.82	0.97	0.97	0.96	0.98	1.01	0.96	0.96	0.98	Continue to monitor
GABILAN 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.97	0.96	0.81	0.96	0.96	0.94	0.99	1.01	0.96	0.97	0.99	Continue to monitor
GONZALES 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.88	0.85	0.81	0.98	0.98	0.90	0.97	1.05	0.85	0.96	0.97	Under review
IND.ACRE 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.98	0.97	0.84	0.98	0.98	0.97	0.99	1.01	0.97	0.98	0.99	Continue to monitor
LAURELES 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.95	0.90	0.78	0.94	0.94	0.90	0.97	1.02	0.95	0.98	0.97	Under review
LGNTS J1 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.97	0.96	0.81	0.96	0.96	0.94	0.99	1.01	0.96	0.97	0.99	Continue to monitor
OTTER 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.95	0.89	0.75	0.94	0.93	0.88	0.96	1.02	0.90	0.98	0.96	Under review
RSVTN RD 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.96	0.96	0.82	0.96	0.96	0.95	0.98	1.02	0.96	0.97	0.98	Continue to monitor
SALINAS 115 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.97	0.88	0.82	1.00	0.99	0.97	1.00	1.04	0.89	0.99	1.00	Potential new RAS
SALINAS1 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.98	0.98	0.86	0.98	0.98	0.98	1.00	1.01	0.98	0.98	1.00	Continue to monitor
SALINAS2 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.98	0.98	0.86	0.98	0.98	0.98	1.00	1.01	0.98	0.98	1.00	Continue to monitor
SNBRN JT 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.98	0.97	0.84	0.98	0.98	0.97	0.99	1.01	0.97	0.98	0.99	Continue to monitor
SOLEDAD 115 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.95	0.88	0.84	0.99	0.99	0.97	0.99	1.04	0.89	0.98	0.99	Potential new RAS
SOLEDAD 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.90	0.87	0.84	0.99	0.99	0.97	0.98	1.05	0.88	0.98	0.98	Under review
SPENCE 60 kV	MOSS LANDING-SALINAS #2 115KV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115KV [0]	P6	N-1-1	0.94	0.88	0.80	0.95	0.96	0.95	0.97	1.01	0.89	0.94	0.97	Potential new voltage support
SALN RVR 60 kV	MOSSLAND 500/230KV TB 9 & COBURN-LASAGUILASS #1 230KV [0]	P6	N-1-1	1.01	1.01	1.01	1.01	1.02	1.02	1.01	1.02	1.01	0.90	1.01	Sensitivity Only
TEMPLETN 230 kV	TEMPLETON-GATES 230KV [5934] & ESTRELLA-CALFLATSSS #1 230KV [0]	P6	N-1-1	NA	0.89	0.88	NA	1.01	1.01	NA	1.03	1.00	NA	NA	Under review

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
SAN MIGL 70 kV	TEMPLETON-GATES 230KV [5934] & MORRO BAY-TEMPLETON 230KV [5933]	P6	N-1-1	0.64	0.96	0.97	0.88	0.98	0.97	0.90	1.01	0.96	0.86	0.90	Project: Estrella Substation Project
CALLENDERSS 115 kV	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	0.95	0.95	0.88	0.97	0.98	0.98	0.93	1.03	0.95	0.98	0.93	continue to monitor
OCEANO 115 kV	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	0.95	0.96	0.88	0.97	0.98	0.98	0.93	1.03	0.96	0.99	0.94	Continue to monitor
UNIONOIL 115 kV	CALLENDER SW STA-MESA & SAN LUIS OBISPO-SANTA MARIA 115 KV LINES	P7	DCTL	0.94	0.95	0.88	0.97	0.98	0.98	0.93	1.03	0.95	0.98	0.93	Continue to monitor
MESA PGE 230 kV	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	0.88	0.98	0.91	1.02	1.01	1.04	0.96	1.03	1.03	1.02	0.96	Under review
SAN MIGL 70 kV	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	0.89	0.97	0.96	0.96	0.98	0.98	0.96	1.01	0.97	0.95	0.96	Project: Estrella Substation Project
TEMPLETN 230 kV	MORRO BAY-CALFLATS SS AND TEMPLETON-GATES 230 KV LINES	P7	DCTL	0.88	0.97	0.92	1.01	1.00	1.02	0.95	1.03	1.00	1.00	0.95	Project: Estrella Substation Project
MESA PGE 230 kV	MORRO BAY-MESA AND DIABLO-MESA 230 KV LINES	P7	DCTL	N/A	N/A	N/A	0.87	Diverge	Diverge	Diverge	1.03	0.86	0.85	Diverge	Existing UVLS
DIABLOCN 230 kV	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	N/A	N/A	Diverge	Diverge	Diverge	Diverge	Diverge	1.16	1.02	1.03	Diverge	Existing UVLS
MESA PGE 230 kV	MORRO BAY-MESA AND MORRO BAY-DIABLO 230 KV LINES	P7	DCTL	N/A	N/A	Diverge	Diverge	Diverge	Diverge	Diverge	1.16	0.99	1.00	Diverge	Existing UVLS
CAMPFORA 60 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.90	0.88	0.86	0.97	0.96	0.92	0.96	1.05	0.88	0.94	0.96	Under review
GONZALES 60 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.88	0.86	0.83	0.96	0.95	0.90	0.95	1.05	0.87	0.93	0.95	Under review
HOLLISTR 115 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.90	0.87	0.82	0.95	0.94	0.90	0.96	1.04	0.88	0.93	0.96	Potential new RAS
HOLSTD 115 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.90	0.87	0.82	0.95	0.94	0.90	0.96	1.04	0.88	0.93	0.96	Potential new RAS
LAURELES 60 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.95	0.95	0.88	0.95	0.94	0.92	0.96	1.03	0.95	0.98	0.96	Continue to monitor
OTTER 60 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.95	0.95	0.86	0.95	0.93	0.91	0.95	1.02	0.95	0.98	0.95	Continue to monitor
SNBENITO 115 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.91	0.89	0.84	0.96	0.95	0.91	0.97	1.04	0.90	0.94	0.97	Potential new RAS
SOLEDAD 115 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.91	0.89	0.86	0.97	0.96	0.92	0.96	1.04	0.90	0.95	0.96	Potential new RAS
SOLEDAD 60 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.91	0.88	0.86	0.97	0.96	0.92	0.96	1.05	0.89	0.94	0.96	Under review
SPENCE 60 kV	MOSS LANDING - CRAZY HORSE #1 AND #2 115 KV LINES	P7	DCTL	0.94	0.94	0.89	0.96	0.95	0.95	0.96	1.01	0.94	0.94	0.96	Continue to monitor
AGRILINK 60 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.94	0.94	Diverge	0.94	0.92	0.37	1.06	0.93	0.55	0.37	Project: Morgan Hill Area Reinforcement
BRIGTANO 60 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.92	0.93	Diverge	0.92	0.91	0.57	1.02	0.92	0.69	0.57	Project: Morgan Hill Area Reinforcement
CMP EVRS 115 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.94	0.94	Diverge	0.97	0.93	0.24	1.06	0.94	0.44	0.24	Project: Morgan Hill Area Reinforcement
ERTA 60 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.94	0.94	Diverge	0.95	0.93	0.34	1.06	0.94	0.52	0.34	Project: Morgan Hill Area Reinforcement
GRANITEROCK 60 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.92	0.92	Diverge	0.92	0.90	0.56	1.02	0.91	0.68	0.56	Project: Morgan Hill Area Reinforcement
GREENVALLEY 115 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.94	0.93	Diverge	0.96	0.93	0.25	1.05	0.93	0.43	0.25	Project: Morgan Hill Area Reinforcement
GREENVALLEY 60 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.95	0.95	Diverge	0.96	0.93	0.32	1.07	0.94	0.51	0.32	Project: Morgan Hill Area Reinforcement
PAUL SWT 115 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.94	0.95	Diverge	0.97	0.93	0.24	1.06	0.94	0.43	0.24	Project: Morgan Hill Area Reinforcement
ROB ROY 115 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.94	0.94	Diverge	0.96	0.93	0.24	1.06	0.93	0.43	0.24	Project: Morgan Hill Area Reinforcement
WTSNVLE 60 kV	MOSS LANDING - GREEN VALLEY #1 AND #2 115 KV LINES	P7	DCTL	Diverge	0.93	0.94	Diverge	0.94	0.92	0.38	1.06	0.93	0.55	0.38	Project: Morgan Hill Area Reinforcement

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off Peak	2028 Spring Off Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
BNA VSTA 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.94	0.90	0.82	0.97	0.97	0.94	0.97	1.01	0.91	0.97	0.97	Potential new voltage support
BORONDA 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.97	0.93	0.86	0.98	0.99	0.96	0.98	1.02	0.94	0.99	0.98	continue to monitor
CAMPHORA 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.89	0.86	0.83	0.96	0.95	0.91	0.95	1.05	0.87	0.94	0.95	Under review
FIRESTNE 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.93	0.89	0.81	0.95	0.96	0.94	0.96	1.01	0.89	0.95	0.96	Potential new voltage support
FRSHXPRS 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.95	0.90	0.82	0.97	0.97	0.94	0.97	1.01	0.91	0.97	0.97	Continue to monitor
GABILAN 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.95	0.91	0.81	0.96	0.96	0.92	0.97	1.02	0.91	0.98	0.97	Continue to monitor
GONZALES 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.88	0.85	0.81	0.95	0.94	0.90	0.94	1.05	0.85	0.93	0.94	Under review
HOLLISTR 115 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.93	0.91	0.86	0.97	0.96	0.93	0.98	1.04	0.91	0.96	0.98	Continue to monitor
HOLSTD 115 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.93	0.91	0.86	0.97	0.96	0.93	0.98	1.04	0.91	0.96	0.98	Continue to monitor
IND.ACRE 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.96	0.92	0.84	0.98	0.98	0.95	0.98	1.01	0.93	0.98	0.98	Continue to monitor
LAURELES 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.94	0.90	0.78	0.94	0.94	0.90	0.95	1.03	0.90	0.98	0.95	Under review
LGNTS J1 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.95	0.91	0.81	0.96	0.96	0.92	0.97	1.02	0.91	0.98	0.97	Continue to monitor
OTTER 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.93	0.89	0.76	0.94	0.93	0.88	0.94	1.02	0.90	0.98	0.94	Under review
RSVTN RD 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.95	0.91	0.82	0.96	0.96	0.93	0.97	1.02	0.91	0.98	0.97	Continue to monitor
SALINAS 115 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.91	0.88	0.82	0.95	0.94	0.91	0.96	1.04	0.89	0.95	0.96	Potential new RAS
SALINAS1 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.97	0.93	0.86	0.98	0.99	0.96	0.98	1.02	0.94	0.99	0.98	Continue to monitor
SALINAS2 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.97	0.93	0.86	0.98	0.99	0.96	0.98	1.02	0.94	0.99	0.98	Continue to monitor
SNBENITO 115 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.94	0.92	0.88	0.97	0.97	0.94	0.98	1.04	0.93	0.97	0.98	Continue to monitor
SOLEDAD 115 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.91	0.88	0.84	0.96	0.95	0.92	0.96	1.04	0.89	0.95	0.96	Potential new RAS
SOLEDAD 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.90	0.87	0.84	0.96	0.95	0.91	0.95	1.05	0.88	0.94	0.95	Under review
SPENCE 60 kV	MOSS LANDING - SALINAS #1 AND #2 115 KV LINES	P7	DCTL	0.92	0.88	0.80	0.95	0.96	0.93	0.96	1.01	0.89	0.94	0.96	Potential new voltage support
PSA RBLS 70 kV	TEMPLETON-ATASCADERO & TEMPLETON-PASO ROBLES 70 KV LINES	P7	DCTL	Diverge	0.96	0.94	0.83	0.98	0.97	0.90	1.02	0.96	0.81	0.90	Project: Estrella Substation Project
SAN MIGL 70 kV	TEMPLETON-ATASCADERO & TEMPLETON-PASO ROBLES 70 KV LINES	P7	DCTL	Diverge	0.97	0.97	0.83	0.98	0.98	0.90	1.01	0.97	0.81	0.90	Project: Estrella Substation Project

Substation	Contingency	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)								Post Cont. Voltage Deviation % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	
CRZY_H&1 115 kV	CRAZY HORSE CANYON-SAN BENITO 115KV [2152]	P1	N-1	<8	<8	9	<8	<8	<8	<8	<8	<8	<8	<8	Continue to monitor
SNBENITO 115 kV	CRAZY HORSE CANYON-SAN BENITO 115KV [2152]	P1	N-1	<8	<8	9	<8	<8	<8	<8	<8	<8	<8	<8	Continue to monitor
PSA RBLS 70 kV	PASO ROBLES-TEMPLETON 70KV [9400]	P1	N-1	<8	<8	<8	15	<8	<8	9	<8	<8	16	9	Project: Estrella Substation Project
SAN MIGL 70 kV	PASO ROBLES-TEMPLETON 70KV [9400]	P1	N-1	<8	<8	<8	13	<8	<8	<8	<8	<8	13	<8	Project: Estrella Substation Project
	SAN MIGUEL-PASO ROBLES 70KV [9390]	P1	N-1	27	<8	<8	16	<8	<8	10	<8	<8	15	9	Project: Estrella Substation Project
	SAN MIGL-UNIONPGAE #1 70KV [0]	P1	N-1	NA	32	38	NA	18	20	NA	<8	32	NA	NA	Consider distribution load transfer from San Miguel to Paso Robles and/ or Union.
	ESTRELLA 230/70KV TB 1	P1	N-1	NA	<8	8	NA	<8	<8	NA	<8	<8	NA	NA	Continue to monitor

Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2025 Spring Off-Peak	2028 Summer Peak	2035 Summer Peak	2028 SP High CEC Forecast	2025 OP Sensitivity	

In accordance with TPL-001-5- Requirement R2.6, this area relies on the past studies from the 2020-21 Transmission Planning Process.
<http://www.caiso.com/Documents/BoardApproved2020-2021TransmissionPlan.pdf>

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

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

Substation	Load Served (MW)											Potential Mitigation Solutions
	2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	

No single source substation with more than 100 MW