Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
30915 MORROBAY 230 30916 SOLARSS 230 1 1	CALIENTE SW STA-MIDWAY #1 230kV [5216] & CALIENTE SW STA-MIDWAY #2 230kV [5226]	P6	N-1-1	<100	<100	<100	100	99	<100	<100	<100	<100	99	101	<100	Sensitivity Only
	CALIENTE SW STA-MIDWAY #2 230kV [5226] & CALIENTE SW STA-MIDWAY #1 230kV [5216]	P6	N-1-1	<100	<100	<100	100	99	<100	<100	<100	<100	99	101	<100	Sensitivity Only
35910 CRZY_HRS 115 35913 NTVD SW2 115 1 1	Crazy Horse Canyon Sw. Sta. 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	94	104	108	25	22	61	59	70	106	21	51	108	Protection Upgrade
	SALINAS-MOSSLNSW-DOLAN RD 115kV [0] & MOSS LANDING-SALINAS #2 115kV [2890]	P6	N-1-1	127	129	138	<100	<100	90	<100	101	134	<100	<100	138	New SPS
	MOSS LANDING-SALINAS #2 115kV [2890] & SALINAS-MOSSLNSW-DOLAN RD 115kV [0]	P6	N-1-1	127	129	138	<100	<100	90	<100	101	134	<100	<100	138	New SPS
35913 NTVD SW2 115 35920 SALINAS 115 1 1	Crazy Horse Canyon Sw. Sta. 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	176	187	208	37	30	119	113	138	193	26	91	208	Protection Upgrade
	SALINAS-MOSSLNSW-DOLAN RD 115kV [0] & MOSS LANDING-SALINAS #2 115kV [2890]	P6	N-1-1	113	114	120	<100	<100	<100	<100	<100	119	<100	<100	120	New SPS
	SALINAS-MOSSLNSW-DOLAN RD 115kV [0] & MOSS LANDING-SALINAS #2 115kV [2890]	P6	N-1-1	113	114	120	<100	<100	<100	<100	<100	119	<100	<100	120	New SPS
36008 GREN VLY 60.0 35901 GRN VLLY 115 1 1	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	245	254	242	176	166	245	235	250	262	152	234	243	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	215	221	221	176	166	222	214	224	228	156	205	221	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	186	181	Diverge	232	Diverge	Diverge	171	221	Diverge	Protection Upgrade
36008 GREN VLY 60.0 36013 ERTA JCT 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	<100	<100	Diverge	Diverge	<100	<100	<100	127	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	186	190	181	128	118	144	138	144	193	108	175	181	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	162	164	164	128	118	130	125	128	167	111	153	164	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	136	130	Diverge	135	Diverge	Diverge	121	166	Diverge	Protection Upgrade
36011 CIC JCT 60.0 36013 ERTA JCT 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	<100	<100	Diverge	Diverge	<100	<100	<100	128	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	185	188	179	128	118	143	137	142	192	108	175	179	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	160	162	162	128	118	128	124	127	166	111	151	163	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	136	129	Diverge	134	Diverge	Diverge	121	164	Diverge	Protection Upgrade
36011 CIC JCT 60.0 36016 AGRILINK 60.0 1 1	MOSS LANDING-GREEN VALLEY #2 115kV [2860] & MOSS LANDING-GREEN VALLEY #1 115kV [2850]	P6	N-1-1	Diverge	<100	<100	<100	<100	Diverge	Diverge	<100	<100	<100	128	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	185	188	179	128	118	143	137	142	192	108	174	179	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	160	162	162	128	118	128	124	127	166	111	151	163	Protection Upgrade

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	136	129	Diverge	134	Diverge	Diverge	121	164	Diverge	Protection Upgrade
36012 WTSNVLLE 60.0 36014 GRANT JT 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	<100	<100	Diverge	Diverge	<100	<100	<100	207	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	206	210	217	166	155	172	167	172	214	142	196	217	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	216	219	220	166	155	176	169	175	222	146	205	221	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	185	171	Diverge	184	Diverge	Diverge	161	223	Diverge	Protection Upgrade
36012 WTSNVLLE 60.0 36016 AGRILINK 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	<100	<100	Diverge	Diverge	<100	<100	<100	128	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	185	188	179	127	118	142	137	142	191	107	174	179	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	160	162	162	127	118	128	124	127	165	110	151	162	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	135	129	Diverge	134	Diverge	Diverge	121	164	Diverge	Protection Upgrade
36018 BRIGTANO 60.0 36014 GRANT JT 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	<100	<100	Diverge	Diverge	<100	<100	<100	220	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	194	198	202	154	145	161	156	160	202	132	184	203	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	205	208	206	154	144	165	158	164	210	136	194	206	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	173	160	Diverge	173	Diverge	Diverge	150	210	Diverge	Protection Upgrade
36018 BRIGTANO 60.0 36022 LGNSTAP 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	97	<100	Diverge	Diverge	<100	<100	<100	268	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	212	217	223	170	159	177	171	177	221	145	201	223	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	225	229	228	170	159	181	175	181	232	150	213	228	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	190	176	Diverge	191	Diverge	Diverge	166	231	Diverge	Protection Upgrade
36022 LGNSTAP 60.0 36025 SALINAS2 60.0 1 1	MOSS LANDING-GREEN VALLEY #1 115kV [2850] & MOSS LANDING-GREEN VALLEY #2 115kV [2860]	P6	N-1-1	Diverge	<100	<100	98	<100	Diverge	Diverge	<100	<100	<100	266	<100	Project: Morgan Hill - Scope under review
	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	215	219	228	170	159	178	173	179	223	145	203	227	Modify existing UVLS or operating solution
	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	225	229	228	170	159	182	175	181	232	149	213	228	Protection Upgrade
	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	191	176	Diverge	191	Diverge	Diverge	166	231	Diverge	Protection Upgrade

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
36025 SALINAS2 60.0 36027 SALINAS1 60.0 1 1	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	Diverge	Diverge	Diverge	59	59	Diverge	52	Diverge	Diverge	59	68	Diverge	Protection Upgrade
36027 SALINAS1 60.0 36054 SNBRN JT 60.0 1 1	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	98	99	99	42	38	68	70	75	103	37	81	99	Sensitivity Only
36048 B.VSTA J 60.0 36050 FIRESTNE 60.0 1 1	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	116	115	118	46	40	82	82	90	121	38	89	118	Non BES facility
	SALINAS-FIRESTONE #2 60kV [7910] (SALINAS1-SNBRN JT)	P2	Line Section w/o Fault	102	102	100	49	46	77	76	79	107	45	91	100	Non BES facility
36050 FIRESTNE 60.0 36052 SPNCE J2 60.0 1 1	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	116	116	119	49	44	82	82	90	123	42	91	119	Non BES facility
36051 SPNCE J1 60.0 36053 SPENCE 60.0 1 1	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	216	216	218	93	85	154	157	169	227	82	179	218	Non BES facility
36051 SPNCE J1 60.0 36054 SNBRN JT 60.0 1 1	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	216	216	218	93	85	154	157	169	227	82	179	218	Non BES facility
36052 SPNCE J2 60.0 36053 SPENCE 60.0 1 1	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	124	123	127	52	47	87	88	96	131	44	97	126	Non BES facility
36079 S ARDOJ2 60.0 36081 TEXCO J2 60.0 1 1	COBURN-OIL FIELDS #1 60kV [6410] (S ARDOJ1-TEXCO J1)	P2	Line Section w/o Fault	32	32	34	103	50	77	29	31	32	52	45	27	Non BES facility
36080 S ARDOJ1 60.0 36083 TEXCO J1 60.0 1 1	COBURN-OIL FIELDS #2 60kV [6420] (S ARDOJ2-TEXCO J2)	P2	Line Section w/o Fault	32	32	34	103	50	77	29	31	32	52	45	27	Non BES facility
	OILFLDS 60kV Section 1E	P2	Bus	32	32	34	103	50	77	29	31	32	52	45	27	Non BES facility
36081 TEXCO J2 60.0 36084 OILFLDS 60.0 1 1	COBURN-OIL FIELDS #1 60kV [6410] (S ARDOJ1-TEXCO J1)	P2	Line Section w/o Fault	32	32	34	103	50	65	25	26	32	52	45	27	Non BES facility
	COBURN-OIL FIELDS #2 60kV [6420] (S ARDOJ2-TEXCO J2)	P2	Line Section w/o Fault	32	32	34	103	50	65	25	26	32	52	45	27	Non BES facility
	OILFLDS 60kV Section 1E	P2	Bus	32	32	34	103	50	65	25	26	32	52	45	27	Non BES facility
36251 FTHILTP2 115 36254 SN LS OB 115 1 1	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	Bus-tie Breaker	107	113	108	<100	<100	<100	<100	<100	111	<100	<100	109	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	111	Diverge	110	27	30	Diverge	60	83	Diverge	23	61	111	Project: Midway-Andrew 230 KV - Scope under review
36252 MORRO BY 115 30915 MORROBAY 230 6 1	MORRO BAY-MESA 230kV [5290] & MORRO BAY-DIABLO 230kV [5260]	P6	Bus-tie Breaker	166	175	165	<100	<100	114	103	128	171	<100	97	166	Project: Midway-Andrew 230 KV - Scope under review
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	114	124	124	50	35	75	68	96	122	41	Diverge	126	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	152	Diverge	149	46	48	Diverge	99	114	Diverge	37	102	149	Project: Midway-Andrew 230 KV - Scope under review
36252 MORRO BY 115 36303 GLDTRJC1 115 1 1	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	Bus-tie Breaker	113	120	115	<100	<100	92	<100	113	117	<100	<100	116	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	118	Diverge	118	29	31	Diverge	82	115	Diverge	24	64	119	Project: Midway-Andrew 230 KV - Scope under review
36252 MORRO BY 115 36304 GLDTRJC2 115 1 1	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	Bus-tie Breaker	112	118	114	<100	<100	<100	<100	<100	116	<100	<100	114	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	117	Diverge	117	29	31	Diverge	63	88	Diverge	24	64	118	Project: Midway-Andrew 230 KV - Scope under review
36253 FTHILTP1 115 36254 SN LS OB 115 1 1	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	Bus-tie Breaker	109	115	110	<100	<100	<100	<100	107	112	<100	<100	110	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	113	Diverge	112	28	30	Diverge	78	108	Diverge	24	62	113	Project: Midway-Andrew 230 KV - Scope under review

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
36254 SN LS OB 115 34796 CARRIZO 115 1 1	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	Bus-tie Breaker	108	118	114	<100	<100	<100	<100	<100	115	<100	<100	115	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	3	Diverge	2	41	45	Diverge	2	1	Diverge	32	47	2	Project: Midway-Andrew 230 KV - Scope under review
36254 SN LS OB 115 36266 SNTA MRA 115 1 1	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	Line Section w/o Fault	255	273	251	<100	<100	181	160	224	263	<100	123	250	Project: Midway-Andrew 230 KV - Scope under review
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	209	241	241	98	67	143	122	214	237	93	Diverge	240	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	187	Diverge	181	72	83	Diverge	118	162	Diverge	63	144	180	Project: Midway-Andrew 230 KV - Scope under review
36254 SN LS OB 115 36278 OCEANO 115 1 1	MORRO BAY-MESA 230kV [5290] & MORRO BAY-DIABLO 230kV [5260]	P6	Bus-tie Breaker	187	201	187	<100	<100	125	111	159	195	<100	90	190	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	167	Diverge	155	52	58	Diverge	102	132	Diverge	44	105	158	Project: Midway-Andrew 230 KV - Scope under review
36256 MESA_PGE 115 36267 SNTAMRTP 115 1 1	DIVIDE-CABRILLO #1 115kV [1380] & MESA-SISQUOC 115kV [2460]	P6	Bus-tie Breaker	<100	93	104	<100	<100	<100	<100	100	100	<100	<100	104	Project: Midway-Andrew 230 KV - Scope under review
36256 MESA_PGE 115 36280 UNION OL 115 1 1	MORRO BAY-MESA 230kV [5290] & MORRO BAY-DIABLO 230kV [5260]	P6	Bus-tie Breaker	187	201	175	<100	<100	123	109	137	190	<100	94	167	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	32	26	110	7	5	22	19	34	31	6	15	150	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	152	Diverge	144	57	70	Diverge	98	113	Diverge	52	115	136	Project: Midway-Andrew 230 KV - Scope under review
36258 S.M.ASSO 115 36260 SISQUOC 115 1 1	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	22	26	104	8	10	16	14	21	27	9	15	130	Project: Midway-Andrew 230 KV - Scope under review
36260 SISQUOC 115 36286 PALMR 115 1 1	MESA-DIVIDE #2 115kV [2440] & MESA-DIVIDE #1 115kV [2430]	P6	Bus-tie Breaker	153	155	154	<100	<100	121	107	121	182	<100	95	154	Project: Midway-Andrew 230 KV - Scope under review
	DIVIDE-CABRILLO #1 115kV [1380] (SURF JCT-PURSMAJ2)	P2	Line Section w/o Fault	85	94	98	38	42	63	57	74	104	40	61	98	Sensitivity Only
	DIVIDE-CABRILLO #1 115kV [1380] (DIVVIDE-PURSMAJ2)	P2	Line Section w/o Fault	85	94	98	38	42	63	57	74	104	40	61	98	Sensitivity Only
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	114	137	124	62	37	65	55	95	130	69	Diverge	124	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	39	55	114	18	28	31	28	43	58	25	29	135	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	91	Diverge	103	20	29	Diverge	49	79	Diverge	27	30	101	Project: Midway-Andrew 230 KV - Scope under review
36264 S.YNZ JT 115 36288 ZACA 115 1 1	MESA-DIVIDE #1 115kV [2430] & MESA-DIVIDE #2 115kV [2440]	P6	Bus-tie Breaker	162	147	145	<100	<100	129	115	115	178	<100	99	145	Project: Midway-Andrew 230 KV - Scope under review
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	108	106	97	65	22	61	52	74	106	59	Diverge	97	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	30	31	91	14	12	24	22	23	37	9	22	106	Sensitivity Only
36266 SNTA MRA 115 36267 SNTAMRTP 115 1 1	DIVIDE-CABRILLO #1 115kV [1380] & MESA-SISQUOC 115kV [2460]	P6	Bus-tie Breaker	98	106	122	<100	<100	<100	<100	116	117	<100	<100	122	Project: Midway-Andrew 230 KV - Scope under review
36266 SNTA MRA 115 36269 FRWAYTP 115 1 1	DIVIDE-CABRILLO #1 115kV [1380] & MESA-SISQUOC 115kV [2460]	P6	Bus-tie Breaker	<100	93	98	<100	<100	<100	<100	93	102	<100	<100	98	Sensitivity Only
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	123	145	134	57	35	89	76	129	139	60	Diverge	133	Project: Midway-Andrew 230 KV - Scope under review
	MORRO BAY-MESA 230kV [5290] & MORRO BAY-DIABLO 230kV [5260]	P6	N-1-1	183	197	169	<100	<100	122	108	133	186	<100	90	175	Project: Midway-Andrew 230 KV - Scope under review

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
36278 OCEANO 115 36280 UNION OL 115 1 1	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	33	29	113	11	7	21	18	36	34	9	17	142	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	148	Diverge	136	53	66	Diverge	97	107	Diverge	49	115	143	Project: Midway-Andrew 230 KV - Scope under review
36286 PALMR 115 36287 AECCEORTP 115 1 1	MESA-DIVIDE #1 115kV [2430] & MESA-DIVIDE #2 115kV [2440]	P6	N-1-1	<100	149	148	<100	<100	<100	<100	116	177	<100	<100	148	Project: Midway-Andrew 230 KV - Scope under review
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	N/A	127	115	N/A	34	N/A	N/A	88	122	67	N/A	115	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	N/A	49	106	N/A	25	N/A	N/A	38	53	22	N/A	126	Project: Midway-Andrew 230 KV - Scope under review
36286 PALMR 115 36288 ZACA 115 1 1	MESA-DIVIDE #2 115kV [2440] & MESA-DIVIDE #1 115kV [2430]	P6	N-1-1	148	<100	<100	<100	<100	117	104	<100	<100	<100	91	<100	Project: Midway-Andrew 230 KV - Scope under review
	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	106	N/A	N/A	59	N/A	60	51	N/A	N/A	N/A	Diverge	N/A	Project: Midway-Andrew 230 KV - Scope under review
	MESA-DIVIDE #1 115kV [2430] & MESA-DIVIDE #2 115kV [2440]	P6	N-1-1	<100	134	133	<100	<100	<100	<100	105	161	<100	<100	133	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	N/A	35	89	N/A	12	N/A	N/A	26	39	9	N/A	104	Sensitivity Only
36303 GLDTRJC1 115 36251 FTHILTP2 115 1 1	MORRO BAY-MESA 230kV [5290] & MORRO BAY-DIABLO 230kV [5260]	P6	N-1-1	107	113	108	<100	<100	<100	<100	<100	111	<100	<100	109	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	111	Diverge	110	27	30	Diverge	60	83	Diverge	23	61	111	Project: Midway-Andrew 230 KV - Scope under review
36304 GLDTRJC2 115 36253 FTHILTP1 115 1 1	MORRO BAY-MESA 230kV [5290] & MORRO BAY-DIABLO 230kV [5260]	P6	N-1-1	112	118	114	<100	<100	<100	<100	<100	116	<100	<100	114	Project: Midway-Andrew 230 KV - Scope under review
	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	117	Diverge	117	29	30	Diverge	63	88	Diverge	23	63	118	Project: Midway-Andrew 230 KV - Scope under review
36310 TEMPLT7 70.0 36316 TEMPL J2 70.0 1 1	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	65	70	106	22	21	58	54	63	71	17	47	142	Project: Midway-Andrew 230 KV - Scope under review
36316 TEMPL J2 70.0 36358 ATASCDRO 70.0 1 1	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	65	70	106	22	21	58	54	63	70	17	47	142	Project: Midway-Andrew 230 KV - Scope under review
36353 ESTRELLA 70.0 36356 PSA RBLS 70.0 1 1	MORRO BAY-TEMPLETON 230kV [5933] & TEMPLETON-GATES 230kV [5934]	P6	N-1-1	111	115	107	<100	<100	<100	<100	<100	119	<100	<100	107	Modify existing UVLS or operating solution
	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	78	83	90	29	26	54	51	55	83	24	61	103	Sensitivity Only
36354 SAN MIGL 70.0 34574 COLNGA 1 70.0 1 1	ESTRELLA 230/70kV TB 1 & PASO ROBLES-TEMPLETON 70kV [9400]	P6	N-1-1	231	303	221	104	<100	168	166	157	301	<100	205	221	Modify existing UVLS or operating solution
36354 SAN MIGL 70.0 36353 ESTRELLA 70.0 1 1	PASO ROBLES-TEMPLETON 70kV [9400] & ESTRELLA 230/70kV TB 1	P6	N-1-1	201	<100	195	90	<100	173	172	164	<100	<100	182	194	Modify existing UVLS or operating solution
36358 ATASCDRO 70.0 36362 CACOS J2 70.0 1 1	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	52	57	92	23	21	41	38	44	56	18	42	126	Sensitivity Only
36362 CACOS J2 70.0 36364 CAYUCOS 70.0 1 1	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	52	56	92	23	21	40	38	44	56	18	42	126	Sensitivity Only
36372 MUSTNG J 70.0 36376 SN LS OB 70.0 1 1	TEMPLETON-ATASCADERO 70kV [9410] & ATASCADERO-SAN LUIS OBISPO 70kV [8490]	P6	N-1-1	96	99	109	<100	<100	<100	<100	<100	102	<100	<100	109	Non BES facility

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
1257-RD 70 kv	Base Case	P0	Base case	> 0.9, < 1.05	1.02	1.04	> 0.9, < 1.05	1.06	> 0.9, < 1.05	> 0.9, < 1.05	1.03	1.02	1.05	> 0.9, < 1.05	1.04	Load power factor correction and voltage support if needed
AERA_ENG 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
AERA_MTR 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
AERA_TP1 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
AERA_TP2 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
AERA_TP3 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
AGRILINK 60 kv	Base Case	P0	Base case	1.02	1.03	1.03	1.06	1.08	1.05	1.05	1.04	1.03	1.08	1.03	1.04	Load power factor correction and voltage support if needed
BA FOOD1 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.06	1.05	1.05	1.03	1.03	1.06	1.05	1.03	Load power factor correction and voltage support if needed
BA FOOD2 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.06	1.05	1.05	1.04	1.03	1.06	1.05	1.03	Load power factor correction and voltage support if needed
BIG BASN 60 kv	Base Case	P0	Base case	1.04	1.02	1.04	1.15	1.05	1.04	1.06	1.04	1.03	1.06	1.05	1.04	Load power factor correction and voltage support if needed
BURNS 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.05	1.04	1.06	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
BURNS J1 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.05	1.04	1.06	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
BURNS J2 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.05	1.04	1.06	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
CHOLAME 70 kv	Base Case	P0	Base case	1.03	1.02	1.02	1.05	1.05	1.04	1.03	1.00	1.02	1.05	1.03	1.02	Load power factor correction and voltage support if needed
CHVSANARDO 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
CIC JCT 60 kv	Base Case	P0	Base case	1.02	1.03	1.04	1.06	1.08	1.05	1.05	1.04	1.04	1.08	1.03	1.04	Load power factor correction and voltage support if needed
CMP EVRS 115 kv	Base Case	P0	Base case	1.03	1.03	1.03	1.04	1.06	1.03	1.03	1.04	1.05	1.06	1.03	1.03	Load power factor correction and voltage support if needed
COBURN 230 kv	Base Case	P0	Base case	1.03	1.03	1.02	1.03	1.05	1.03	1.03	1.02	1.02	1.05	1.02	1.02	Load power factor correction and voltage support if needed
COBURN 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.07	1.05	1.05	1.03	1.03	1.07	1.05	1.03	Load power factor correction and voltage support if needed
COBURN J 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.07	1.05	1.05	1.03	1.03	1.07	1.05	1.03	Load power factor correction and voltage support if needed
CRUSHER 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.06	1.03	1.05	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
DIVIDE 70 kv	Base Case	P0	Base case	1.02	1.03	1.04	1.05	1.06	1.03	1.03	1.03	1.03	1.05	1.03	1.04	Load power factor correction and voltage support if needed
DUKE ML1 230 kv	Base Case	P0	Base case	1.02	1.02	1.01	1.04	1.08	1.02	1.02	1.02	1.02	1.08	1.02	1.01	Load power factor correction and voltage support if needed
DUKE ML2 230 kv	Base Case	P0	Base case	1.02	1.02	1.01	1.04	1.08	1.02	1.02	1.02	1.02	1.08	1.02	1.01	Load power factor correction and voltage support if needed
ERTA 60 kv	Base Case	P0	Base case	1.03	1.04	1.04	1.07	1.09	1.06	1.05	1.05	1.04	1.09	1.04	1.04	Load power factor correction and voltage support if needed
ERTA JCT 60 kv	Base Case	P0	Base case	1.03	1.04	1.04	1.07	1.09	1.06	1.05	1.05	1.04	1.09	1.04	1.04	Load power factor correction and voltage support if needed
GREN VLY 60 kv	Base Case	P0	Base case	1.04	1.04	1.05	1.07	1.09	1.06	1.06	1.05	1.05	1.09	1.04	1.05	Load power factor correction and voltage support if needed
GRN VLLY 115 kv	Base Case	P0	Base case	1.02	1.03	1.02	1.04	1.06	1.03	1.03	1.03	1.03	1.06	1.02	1.02	Load power factor correction and voltage support if needed
JOLON 60 kv	Base Case	P0	Base case	1.05	1.05	1.02	1.05	1.08	1.05	1.06	1.02	1.02	1.08	1.07	1.02	Load power factor correction and voltage support if needed
JOLON TP 60 kv	Base Case	P0	Base case	1.05	1.05	1.02	1.04	1.07	1.05	1.06	1.03	1.02	1.07	1.05	1.03	Load power factor correction and voltage support if needed
KCTY_TAP 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.06	1.05	1.05	1.04	1.03	1.06	1.05	1.03	Load power factor correction and voltage support if needed
KING CTY 60 kv	Base Case	P0	Base case	1.05	1.05	1.02	1.04	1.07	1.05	1.05	1.03	1.02	1.07	1.05	1.03	Load power factor correction and voltage support if needed
L.STAR J 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.05	1.03	1.06	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
LCCHS J1 60 kv	Base Case	P0	Base case	1.06	1.06	1.02	1.04	1.08	1.06	1.06	1.02	1.04	1.08	1.06	1.02	Load power factor correction and voltage support if needed
LCCHS J2 60 kv	Base Case	P0	Base case	1.04	1.04	1.02	1.04	1.07	1.06	1.06	1.02	1.01	1.07	1.04	1.02	Load power factor correction and voltage support if needed
LONE STR 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.05	1.03	1.06	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
LOS CCHS 60 kv	Base Case	P0	Base case	1.06	1.06	1.01	1.04	1.08	1.06	1.06	1.02	1.04	1.08	1.06	1.02	Load power factor correction and voltage support if needed
LOS OSTS 60 kv	Base Case	P0	Base case	1.04	1.04	1.02	1.04	1.07	1.06	1.06	1.02	1.01	1.07	1.04	1.02	Load power factor correction and voltage support if needed
M 115 kv	Base Case	P0	Base case	1.03	1.03	1.03	1.03	1.06	1.03	1.03	1.03	1.05	1.06	1.03	1.03	Load power factor correction and voltage support if needed
MOSSLNSW 230 kv	Base Case	P0	Base case	1.02	1.02	1.01	1.04	1.08	1.02	1.02	1.02	1.02	1.08	1.02	1.01	Load power factor correction and voltage support if needed
OILFLDS 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
ORCHRD J 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.07	1.05	1.06	1.03	1.02	1.07	1.05	1.03	Load power factor correction and voltage support if needed
PAUL SWT 115 kv	Base Case	P0	Base case	1.03	1.03	1.03	1.03	1.06	1.03	1.03	1.03	1.05	1.06	1.03	1.03	Load power factor correction and voltage support if needed
PT MRTTI 60 kv	Base Case	P0	Base case	1.03	1.02	1.04	1.15	1.06	1.03	1.05	1.03	1.02	1.06	1.05	1.04	Load power factor correction and voltage support if needed
ROB ROY 115 kv	Base Case	P0	Base case	1.02	1.03	1.03	1.04	1.06	1.03	1.03	1.03	1.04	1.06	1.03	1.03	Load power factor correction and voltage support if needed
S ARDOJ1 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.06	1.04	1.05	1.03	1.02	1.06	1.05	1.03	Load power factor correction and voltage support if needed
S ARDOJ2 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.06	1.04	1.05	1.03	1.02	1.06	1.05	1.03	Load power factor correction and voltage support if needed

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
SALN RVR 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
SAN ARDO 60 kv	Base Case	P0	Base case	1.05	1.05	1.03	1.04	1.06	1.04	1.05	1.03	1.02	1.06	1.05	1.03	Load power factor correction and voltage support if needed
SARG CYN 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
TEXCO J1 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
TEXCO J2 60 kv	Base Case	P0	Base case	1.05	1.05	1.04	1.05	1.06	1.05	1.05	1.04	1.02	1.06	1.05	1.02	Load power factor correction and voltage support if needed
VAFB A-N 70 kv	Base Case	P0	Base case	1.02	1.02	1.04	1.05	1.06	1.02	1.03	1.03	1.03	1.05	1.04	1.05	Load power factor correction and voltage support if needed
VAFB SSA 70 kv	Base Case	P0	Base case	1.02	1.02	1.04	1.05	1.06	1.02	1.03	1.03	1.02	1.05	1.03	1.04	Load power factor correction and voltage support if needed
VAFB SSB 70 kv	Base Case	P0	Base case	1.02	1.02	1.04	1.05	1.06	1.02	1.03	1.03	1.02	1.05	1.03	1.04	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	Base Case	P0	Base case	1.02	1.02	1.03	1.06	1.08	1.05	1.04	1.04	1.03	1.08	1.02	1.03	Load power factor correction and voltage support if needed
GREN VLY 60 kv	GREEN VALLEY-WATSONVILLE 60kV [6970]	P1	N-1	1.07	1.08	1.07	1.08	1.11	1.08	1.07	1.07	1.09	1.12	1.07	1.07	Load power factor correction and voltage support if needed
AGRILINK 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P1	N-1	1.04	1.04	1.06	1.08	1.11	1.07	1.07	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed
ERTA 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P1	N-1	1.04	1.05	1.06	1.08	1.11	1.07	1.07	1.07	1.06	1.11	1.05	1.06	Load power factor correction and voltage support if needed
GREN VLY 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P1	N-1	1.05	1.05	1.06	1.08	1.11	1.07	1.07	1.07	1.06	1.11	1.05	1.06	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P1	N-1	1.04	1.04	1.06	1.08	1.11	1.07	1.07	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed
ERTA 60 kv	GREEN VALLEY-WATSONVILLE 60kV [6970] (WTSNVLLE-AGRILINK)	P2	Line Section w/o Fault	1.07	1.07	1.07	1.08	1.11	1.08	1.07	1.07	1.09	1.12	1.07	1.07	Load power factor correction and voltage support if needed
ERTA 60 kv	CIC TAP 60kV [6971] (CIC JCT-ERTA JCT)	P2	Line Section w/o Fault	1.07	1.07	1.07	1.08	1.11	1.08	1.07	1.07	1.09	1.12	1.07	1.07	Load power factor correction and voltage support if needed
BNA VSTA 60 kv	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	0.84	0.84	0.84	0.95	0.95	0.91	0.86	0.85	0.83	0.95	0.87	0.84	Operating Solution
FIRESTNE 60 kv	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	0.86	0.87	0.86	0.96	0.96	0.92	0.88	0.87	0.85	0.96	0.89	0.86	Operating Solution
FRSHXPRS 60 kv	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	0.84	0.84	0.83	0.95	0.95	0.91	0.86	0.85	0.83	0.95	0.87	0.84	Operating Solution
SPENCE 60 kv	SALINAS-FIRESTONE #1 60kV [7900] (SALINAS1-FREXP JT)	P2	Line Section w/o Fault	0.87	0.88	0.87	0.97	0.96	0.93	0.89	0.88	0.87	0.96	0.90	0.87	Operating Solution
WTSNVLLE 60 kv	SALINAS-LAGUNITAS 60kV [7920] (LGNSTAP-SALINAS2)	P2	Line Section w/o Fault	1.03	1.03	1.05	1.07	1.10	1.06	1.06	1.05	1.04	1.11	1.03	1.05	Load power factor correction and voltage support if needed
ERTA 60 kv	WATSONVILLE-SALINAS 60kV [8310] (BRIGTANO-GRANT JT)	P2	Line Section w/o Fault	1.04	1.05	1.05	1.08	1.11	1.07	1.06	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	WATSONVILLE-SALINAS 60kV [8310] (BRIGTANO-GRANT JT)	P2	Line Section w/o Fault	1.03	1.04	1.05	1.07	1.10	1.06	1.06	1.06	1.04	1.11	1.03	1.05	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	WATSONVILLE-SALINAS 60kV [8310] (BRIGTANO-LGNSTAP)	P2	Line Section w/o Fault	1.02	1.03	1.04	1.07	1.10	1.05	1.05	1.05	1.04	1.10	1.03	1.04	Sensitivity Only
ERTA 60 kv	WATSONVILLE-SALINAS 60kV [8310] (WTSNVLLE-GRANT JT)	P2	Line Section w/o Fault	1.04	1.05	1.06	1.08	1.11	1.07	1.07	1.07	1.06	1.11	1.05	1.06	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	WATSONVILLE-SALINAS 60kV [8310] (WTSNVLLE-GRANT JT)	P2	Line Section w/o Fault	1.04	1.04	1.06	1.08	1.11	1.07	1.07	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	SALINAS2 60kV Section 2E	P2	Bus	1.03	1.03	1.05	1.07	1.10	1.06	1.06	1.05	1.04	1.11	1.03	1.05	Load power factor correction and voltage support if needed
ERTA 60 kv	WTSNVLLE 60kV Section 1D	P2	Bus	1.07	1.07	1.07	1.08	1.11	1.08	1.08	1.07	1.09	1.12	1.07	1.07	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	SALINAS2 - 2E 60kV & SALINAS-LAGUNITAS line	P2	Non Bus-tie Breaker	1.03	1.03	1.05	1.07	1.10	1.06	1.06	1.05	1.04	1.11	1.03	1.05	Load power factor correction and voltage support if needed
ERTA 60 kv	SALINAS2 - 2E 60kV & WTSNVLLE-SALINAS2 line	P2	Non Bus-tie Breaker	1.04	1.05	1.06	1.08	1.11	1.07	1.07	1.07	1.06	1.11	1.05	1.06	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	SALINAS2 - 2E 60kV & WTSNVLLE-SALINAS2 line	P2	Non Bus-tie Breaker	1.04	1.04	1.06	1.08	1.11	1.07	1.07	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed
ERTA 60 kv	WTSNVLLE - 1D 60kV & WTSNVLLE-SALINAS2 line	P2	Non Bus-tie Breaker	1.07	1.07	1.07	1.08	1.11	1.08	1.08	1.07	1.09	1.12	1.07	1.07	Load power factor correction and voltage support if needed

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
ERTA 60 kv	SALINAS2 60kV - Section 2E & 2D	P2	Bus-tie Breaker	1.04	1.04	1.05	1.08	1.11	1.06	1.06	1.06	1.05	1.11	1.04	1.05	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	SALINAS2 60kV - Section 2E & 2D	P2	Bus-tie Breaker	1.03	1.03	1.05	1.07	1.10	1.06	1.06	1.05	1.04	1.11	1.03	1.05	Load power factor correction and voltage support if needed
AECCEOR 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	N/A	0.58	0.51	N/A	0.99	N/A	N/A	0.52	0.53	0.97	N/A	0.51	Project: Midway-Andrew 230 KV - Scope under review
BUELLTON 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.59	0.56	0.49	0.96	0.99	0.80	0.84	0.50	0.50	0.96	0.42	0.49	Project: Midway-Andrew 230 KV - Scope under review
CABRILLO 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.59	0.56	0.49	0.96	0.99	0.80	0.84	0.50	0.50	0.96	0.35	0.49	Project: Midway-Andrew 230 KV - Scope under review
FOOTHILL 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.93	0.91	0.87	1.03	1.04	0.98	1.00	0.88	0.90	1.03	0.92	0.87	Project: Midway-Andrew 230 KV - Scope under review
GOLDTREE 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	> 0.9, < 1.1	0.91	0.88	> 0.9, < 1.1	1.04	> 0.9, < 1.1	> 0.9, < 1.1	0.88	0.90	1.03	> 0.9, < 1.1	0.87	Project: Midway-Andrew 230 KV - Scope under review
OCEANO 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.90	0.89	0.83	1.03	1.03	0.96	0.99	0.83	0.87	1.03	0.90	0.82	Project: Midway-Andrew 230 KV - Scope under review
PALMR 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.66	0.60	0.52	0.98	0.99	0.84	0.87	0.53	0.55	0.97	0.55	0.52	Project: Midway-Andrew 230 KV - Scope under review
SISQUOC 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.68	0.62	0.54	0.98	0.99	0.85	0.88	0.55	0.57	0.97	0.58	0.54	Project: Midway-Andrew 230 KV - Scope under review
SN LS OB 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.91	0.89	0.85	1.03	1.04	0.97	0.99	0.85	0.88	1.03	0.90	0.85	Project: Midway-Andrew 230 KV - Scope under review
SNTA MRA 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.71	0.65	0.58	0.98	1.00	0.86	0.89	0.59	0.62	0.98	0.65	0.58	Project: Midway-Andrew 230 KV - Scope under review
SNTA YNZ 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.59	0.56	0.48	0.96	0.99	0.80	0.84	0.50	0.49	0.96	0.41	0.48	Project: Midway-Andrew 230 KV - Scope under review
UNION OL 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.90	0.89	0.83	1.03	1.03	0.96	0.99	0.83	0.87	1.03	0.90	0.81	Project: Midway-Andrew 230 KV - Scope under review
ZACA 115 kv	MESA_PGE 115kV - Section 2D & 1D	P2	Bus-tie Breaker	0.61	0.58	0.50	0.97	0.99	0.81	0.85	0.51	0.52	0.97	0.45	0.50	Project: Midway-Andrew 230 KV - Scope under review
AECCEOR 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	> 0.9, < 1.1	1.01	0.81	> 0.9, < 1.1	1.03	> 0.9, < 1.1	> 0.9, < 1.1	0.96	1.00	1.02	> 0.9, < 1.1	0.56	Project: Midway-Andrew 230 KV - Scope under review
ATASCDRO 70 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.02	0.95	1.04	1.03	1.02	1.03	1.00	1.02	1.03	1.02	0.77	Sensitivity Only
BAYWOOD 70 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.00	1.00	0.90	1.02	1.02	1.01	1.01	0.99	1.00	1.02	1.00	0.68	Project: Midway-Andrew 230 KV - Scope under review
BUELLTON 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.00	0.79	1.02	1.02	1.02	1.02	0.96	0.98	1.02	1.01	0.53	Project: Midway-Andrew 230 KV - Scope under review
CABRILLO 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.01	0.79	1.02	1.03	1.02	1.02	0.97	1.00	1.02	1.01	0.53	Project: Midway-Andrew 230 KV - Scope under review
CAMBRIA 70 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	0.99	0.89	1.02	1.02	1.00	1.00	0.97	0.98	1.02	0.99	0.68	Project: Midway-Andrew 230 KV - Scope under review
CAYUCOS 70 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	1.00	0.90	1.02	1.02	1.00	1.00	0.98	1.00	1.02	1.00	0.69	Sensitivity Only
DIABLOCN 230 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.01	0.91	1.03	1.03	1.02	1.03	0.96	1.00	1.03	1.01	0.79	Sensitivity Only
FAIRWAY 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.03	1.02	0.91	1.03	1.03	1.03	1.04	0.97	1.02	1.03	1.02	0.69	Sensitivity Only
FOOTHILL 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	0.99	0.82	1.03	1.04	1.01	1.01	0.94	0.99	1.04	1.01	0.59	Project: Midway-Andrew 230 KV - Scope under review
GOLDTREE 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	0.99	0.82	1.03	1.04	1.01	1.01	0.94	0.98	1.04	1.01	0.59	Project: Midway-Andrew 230 KV - Scope under review
MESA PGE 230 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.00	1.01	0.86	1.03	1.03	1.01	1.03	0.92	0.97	1.03	1.02	0.67	Project: Midway-Andrew 230 KV - Scope under review
MORRO BY 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	0.99	0.82	1.03	1.04	1.02	1.01	0.94	0.98	1.03	1.01	0.59	Project: Midway-Andrew 230 KV - Scope under review
OCEANO 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.01	0.86	1.03	1.03	1.02	1.03	0.96	1.01	1.03	1.02	0.62	Project: Midway-Andrew 230 KV - Scope under review
PALMR 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.02	1.01	0.82	1.03	1.03	1.03	1.03	0.97	1.00	1.02	1.02	0.57	Project: Midway-Andrew 230 KV - Scope under review
PERRY 70 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	0.99	0.89	1.02	1.02	1.00	1.00	0.97	0.98	1.02	0.99	0.68	Project: Midway-Andrew 230 KV - Scope under review
SISQUOC 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.03	1.02	0.84	1.03	1.03	1.04	1.04	0.97	1.01	1.02	1.02	0.59	Project: Midway-Andrew 230 KV - Scope under review
SN LS OB 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	0.99	0.99	0.82	1.03	1.04	1.01	1.02	0.94	0.99	1.04	1.01	0.59	Project: Midway-Andrew 230 KV - Scope under review
SNTA MRA 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.03	1.02	0.82	1.03	1.03	1.04	1.04	0.98	1.02	1.03	1.02	0.58	Project: Midway-Andrew 230 KV - Scope under review
SNTA YNZ 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.00	0.79	1.02	1.02	1.02	1.02	0.96	0.98	1.02	1.00	0.53	Project: Midway-Andrew 230 KV - Scope under review
TEMPLETN 230 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.00	1.00	0.93	1.03	1.03	1.01	1.02	0.98	1.00	1.02	1.01	0.86	Sensitivity Only
UNION OL 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.02	1.01	0.87	1.03	1.03	1.03	1.03	0.97	1.01	1.03	1.02	0.64	Project: Midway-Andrew 230 KV - Scope under review
ZACA 115 kv	MORROBAY 230kV - Section 2D & 2E	P2	Bus-tie Breaker	1.01	1.01	0.80	1.02	1.03	1.02	1.03	0.96	0.99	1.02	1.01	0.55	Project: Midway-Andrew 230 KV - Scope under review
AECCEOR 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	> 0.9, < 1.1	0.44	0.42	> 0.9, < 1.1	1.06	> 0.9, < 1.1	> 0.9, < 1.1	0.43	0.47	1.02	> 0.9, < 1.1	0.41	Project: Midway-Andrew 230 KV - Scope under review
ATASCDRO 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.83	0.80	0.79	1.04	1.04	0.88	1.01	0.79	0.87	1.03	1.03	0.78	Project: Midway-Andrew 230 KV - Scope under review
BAYWOOD 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.76	0.72	0.72	1.03	1.03	0.81	0.99	0.72	0.80	1.02	1.01	0.71	Project: Midway-Andrew 230 KV - Scope under review
BUELLTON 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.46	0.42	0.41	1.03	1.06	0.48	0.94	0.41	0.45	1.02	1.11	0.40	Project: Midway-Andrew 230 KV - Scope under review
CABRILLO 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.46	0.42	0.41	1.03	1.06	0.49	0.94	0.41	0.47	1.02	1.12	0.40	Project: Midway-Andrew 230 KV - Scope under review
CAMBRIA 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.76	0.73	0.72	1.03	1.03	0.81	0.98	0.72	0.79	1.02	1.00	0.71	Project: Midway-Andrew 230 KV - Scope under review
CAYUCOS 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.77	0.74	0.73	1.03	1.04	0.82	0.99	0.73	0.81	1.02	1.01	0.73	Project: Midway-Andrew 230 KV - Scope under review

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
DIABLOCN 230 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.53	0.51	0.46	1.02	1.04	0.51	1.04	0.46	0.51	1.02	1.24	0.45	Project: Midway-Andrew 230 KV - Scope under review
DIVIDE 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	N/A	N/A	N/A	1.04	1.08	0.50	N/A	N/A	0.49	1.03	1.14	N/A	Project: Midway-Andrew 230 KV - Scope under review
ESTRELLA 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.89	0.87	0.86	1.04	1.04	0.92	1.00	0.86	0.91	1.03	1.02	0.86	Project: Midway-Andrew 230 KV - Scope under review
FAIRWAY 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.56	0.50	0.48	1.03	1.06	0.52	1.02	0.48	0.50	1.02	1.12	0.46	Project: Midway-Andrew 230 KV - Scope under review
FOOTHILL 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.70	0.65	0.66	1.04	1.05	0.74	0.98	0.66	0.72	1.04	1.06	0.65	Project: Midway-Andrew 230 KV - Scope under review
GOLDTREE 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.70	0.66	0.66	1.04	1.05	0.74	0.98	0.67	0.73	1.04	1.06	0.66	Project: Midway-Andrew 230 KV - Scope under review
MANVILLE 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	N/A	N/A	N/A	1.01	1.05	0.48	N/A	N/A	0.47	1.01	1.11	N/A	Project: Midway-Andrew 230 KV - Scope under review
MESA PGE 230 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.53	0.48	0.45	1.02	1.03	0.49	1.03	0.45	0.48	1.02	1.23	0.44	Project: Midway-Andrew 230 KV - Scope under review
MORRO BY 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.75	0.72	0.73	1.04	1.05	0.80	0.98	0.73	0.78	1.04	1.05	0.72	Project: Midway-Andrew 230 KV - Scope under review
OCEANO 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.60	0.55	0.53	1.04	1.06	0.59	1.00	0.53	0.58	1.03	1.11	0.52	Project: Midway-Andrew 230 KV - Scope under review
PALMR 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.51	0.45	0.44	1.03	1.06	0.51	0.97	0.44	0.48	1.02	1.12	0.42	Project: Midway-Andrew 230 KV - Scope under review
PERRY 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.76	0.73	0.72	1.03	1.03	0.81	0.98	0.72	0.79	1.02	1.00	0.72	Project: Midway-Andrew 230 KV - Scope under review
PSA RBLS 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.89	0.87	0.86	1.04	1.04	0.93	1.00	0.86	0.92	1.04	1.02	0.86	Project: Midway-Andrew 230 KV - Scope under review
PURISIMA 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	N/A	N/A	N/A	1.02	1.06	0.48	N/A	N/A	0.47	1.01	1.12	N/A	Project: Midway-Andrew 230 KV - Scope under review
SAN MIGL 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.89	0.87	0.87	1.04	1.03	0.92	0.99	0.87	0.91	1.03	1.02	0.87	Project: Midway-Andrew 230 KV - Scope under review
SISQUOC 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.53	0.46	0.45	1.03	1.06	0.52	0.98	0.45	0.49	1.02	1.12	0.44	Project: Midway-Andrew 230 KV - Scope under review
SN LS OB 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.68	0.63	0.63	1.04	1.06	0.71	0.98	0.64	0.70	1.04	1.07	0.62	Project: Midway-Andrew 230 KV - Scope under review
SNTA MRA 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.53	0.46	0.46	1.03	1.06	0.52	0.96	0.46	0.51	1.02	1.12	0.45	Project: Midway-Andrew 230 KV - Scope under review
SNTA YNZ 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.46	0.42	0.40	1.03	1.06	0.48	0.94	0.41	0.44	1.02	1.11	0.39	Project: Midway-Andrew 230 KV - Scope under review
SURF 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	N/A	N/A	N/A	1.02	1.06	0.49	N/A	N/A	0.47	1.02	1.12	N/A	Project: Midway-Andrew 230 KV - Scope under review
TEMPLETN 230 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.84	0.82	0.83	1.03	1.03	0.87	0.99	0.83	0.86	1.03	1.02	0.83	Project: Midway-Andrew 230 KV - Scope under review
UNION OL 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.59	0.53	0.52	1.03	1.06	0.57	1.01	0.51	0.56	1.03	1.11	0.50	Project: Midway-Andrew 230 KV - Scope under review
VAFB SSA 70 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	N/A	N/A	N/A	1.04	1.08	0.50	N/A	N/A	0.50	1.04	1.14	N/A	Project: Midway-Andrew 230 KV - Scope under review
ZACA 115 kv	MORROBAY 230kV - Section 2E & 1E	P2	Bus-tie Breaker	0.48	0.43	0.42	1.03	1.06	0.49	0.95	0.42	0.47	1.02	1.12	0.41	Project: Midway-Andrew 230 KV - Scope under review
GONZALES 60 kv	Crazy Horse Canyon Sw. Sta. 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	0.94	0.92	0.89	1.02	1.03	1.01	0.97	0.92	0.92	1.04	0.98	0.89	Protection Upgrade
BNA VSTA 60 kv	Salinas 115kV BAAH Bus #1 (failure of non-redundent relay)	P5	Non-Redundent Relay	0.29	0.29	0.29	0.52	0.58	0.31	0.31	0.30	0.29	0.61	0.35	0.29	Protection Upgrade
WTSNVLLE 60 kv	Salinas 115kV BAAH Bus #2 (failure of non-redundent relay)	P5	Non-Redundent Relay	-3.31	-3.08	-2.87	0.91	0.94	-2.13	0.82	-1.78	-3.31	0.96	0.83	-2.85	Protection Upgrade
JOLON 60 kv	COBURN-BASIC ENERGY 60kV [6400] & COBURN-LASAGUILASS #1 230kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.12	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.13	> 0.9, < 1.1	> 0.9, < 1.1	Load power factor correction and voltage support if needed
LOS CCHS 60 kv	COBURN-BASIC ENERGY 60kV [6400] & COBURN-LASAGUILASS #1 230kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.12	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.12	> 0.9, < 1.1	> 0.9, < 1.1	Load power factor correction and voltage support if needed
SAN ARDO 60 kv	COBURN-BASIC ENERGY 60kV [6400] & COBURN-LASAGUILASS #1 230kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.10	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
BA FOOD1 60 kv	COBURN-LASAGUILASS #1 230kV [0] & COBURN 230/60kV TB 1	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
KING CTY 60 kv	COBURN-LASAGUILASS #1 230kV [0] & COBURN 230/60kV TB 1	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
LOS OSTS 60 kv	COBURN-LASAGUILASS #1 230kV [0] & COBURN 230/60kV TB 1	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
AECCEOR 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.89	0.50	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.50	0.53	> 0.9, < 1.1	> 0.9, < 1.1	0.49	Project: Midway-Andrew 230 KV - Scope under review
BAYWOOD 70 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	0.88	> 0.9, < 1.1	> 0.9, < 1.1	0.84	Project: Midway-Andrew 230 KV - Scope under review
BUELLTON 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	0.87	0.88	0.48	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.48	0.50	> 0.9, < 1.1	> 0.9, < 1.1	0.47	Project: Midway-Andrew 230 KV - Scope under review

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
CABRILLO 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	0.87	0.88	0.48	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.48	0.50	> 0.9, < 1.1	> 0.9, < 1.1	0.47	Project: Midway-Andrew 230 KV - Scope under review
CAMBRIA 70 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	0.87	> 0.9, < 1.1	> 0.9, < 1.1	0.84	Project: Midway-Andrew 230 KV - Scope under review
CAYUCOS 70 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.86	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.86	0.89	> 0.9, < 1.1	> 0.9, < 1.1	0.85	Project: Midway-Andrew 230 KV - Scope under review
FAIRWAY 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.55	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.56	0.62	> 0.9, < 1.1	> 0.9, < 1.1	0.54	Project: Midway-Andrew 230 KV - Scope under review
FOOTHILL 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.78	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.78	0.81	> 0.9, < 1.1	> 0.9, < 1.1	0.77	Project: Midway-Andrew 230 KV - Scope under review
GOLDTREE 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.78	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.79	0.81	> 0.9, < 1.1	> 0.9, < 1.1	0.77	Project: Midway-Andrew 230 KV - Scope under review
MESA PGE 230 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.89	0.52	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.58	> 0.9, < 1.1	> 0.9, < 1.1	0.51	Project: Midway-Andrew 230 KV - Scope under review
MORRO BY 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.86	0.87	> 0.9, < 1.1	> 0.9, < 1.1	0.85	Project: Midway-Andrew 230 KV - Scope under review
PALMR 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.90	0.51	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.52	0.55	> 0.9, < 1.1	> 0.9, < 1.1	0.50	Project: Midway-Andrew 230 KV - Scope under review
PERRY 70 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.85	0.88	> 0.9, < 1.1	> 0.9, < 1.1	0.84	Project: Midway-Andrew 230 KV - Scope under review
SISQUOC 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.58	> 0.9, < 1.1	> 0.9, < 1.1	0.52	Project: Midway-Andrew 230 KV - Scope under review
SNTA MRA 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.90	0.54	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.55	0.59	> 0.9, < 1.1	> 0.9, < 1.1	0.53	Project: Midway-Andrew 230 KV - Scope under review
SNTA YNZ 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	0.87	0.87	0.47	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.48	0.49	> 0.9, < 1.1	> 0.9, < 1.1	0.46	Project: Midway-Andrew 230 KV - Scope under review
ZACA 115 kv	DIABLO-MESA 230kV [4620] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	0.89	0.89	0.49	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.50	0.52	> 0.9, < 1.1	> 0.9, < 1.1	0.48	Project: Midway-Andrew 230 KV - Scope under review
ESTRELLA 70 kv	ESTRELLA-PSA RBLS #1 70kV [0] & ESTRELLA 230/70kV TB 1	P6	N-1-1	0.81	0.78	0.72	> 0.9, < 1.1	> 0.9, < 1.1	0.81	> 0.9, < 1.1	0.76	0.77	> 0.9, < 1.1	0.87	0.73	Operating Solution
CAMBRIA 70 kv	ATASCADERO-SAN LUIS OBISPO 70kV [8490] & TEMPLETON-ATASCADERO 70kV [9410]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	Operating Solution
PERRY 70 kv	ATASCADERO-SAN LUIS OBISPO 70kV [8490] & TEMPLETON-ATASCADERO 70kV [9410]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.90	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	Operating Solution
MANVILLE 115 kv	MESA-DIVIDE #2 115kV [2440] & MESA-DIVIDE #1 115kV [2430]	P6	N-1-1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.90	> 0.9, < 1.1	> 0.9, < 1.1	0.90	> 0.9, < 1.1	Project: Midway-Andrew 230 KV - Scope under review
PURISIMA 115 kv	MESA-DIVIDE #2 115kV [2440] & MESA-DIVIDE #1 115kV [2430]	P6	N-1-1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Project: Midway-Andrew 230 KV - Scope under review
AECCEOR 115 kv	MESA-SISQUOC 115kV [2460] & MESA_PGE-SNTA MRA 115kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.90	Sensitivity Only
FAIRWAY 115 kv	MESA-SISQUOC 115kV [2460] & MESA_PGE-SNTA MRA 115kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	Project: Midway-Andrew 230 KV - Scope under review
SISQUOC 115 kv	MESA-SISQUOC 115kV [2460] & MESA_PGE-SNTA MRA 115kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	Project: Midway-Andrew 230 KV - Scope under review
SNTA MRA 115 kv	MESA-SISQUOC 115kV [2460] & MESA_PGE-SNTA MRA 115kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	Project: Midway-Andrew 230 KV - Scope under review
BUELLTON 115 kv	MESA-SISQUOC 115kV [2460] & SANTA MARIA-SISQUOC 115kV [3610]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
SISQUOC 115 kv	MESA-SISQUOC 115kV [2460] & SANTA MARIA-SISQUOC 115kV [3610]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.87	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
SNTA YNZ 115 kv	MESA-SISQUOC 115kV [2460] & SANTA MARIA-SISQUOC 115kV [3610]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
ZACA 115 kv	MESA-SISQUOC 115kV [2460] & SANTA MARIA-SISQUOC 115kV [3610]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
BUELLTON 115 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.87	0.47	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.47	0.50	> 0.9, < 1.1	> 0.9, < 1.1	0.46	Project: Midway-Andrew 230 KV - Scope under review
CABRILLO 115 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.87	0.47	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.47	0.49	> 0.9, < 1.1	> 0.9, < 1.1	0.46	Project: Midway-Andrew 230 KV - Scope under review
DIABLOCN 230 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.63	> 0.9, < 1.1	> 0.9, < 1.1	0.52	Project: Midway-Andrew 230 KV - Scope under review
MESA PGE 230 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.52	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.52	0.60	> 0.9, < 1.1	> 0.9, < 1.1	0.51	Project: Midway-Andrew 230 KV - Scope under review
SISQUOC 115 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.90	0.52	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.52	0.57	> 0.9, < 1.1	> 0.9, < 1.1	0.51	Project: Midway-Andrew 230 KV - Scope under review
SNTA YNZ 115 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.86	0.47	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.47	0.49	> 0.9, < 1.1	> 0.9, < 1.1	0.46	Project: Midway-Andrew 230 KV - Scope under review
ZACA 115 kv	MORRO BAY-DIABLO 230kV [5260] & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	0.88	0.48	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.49	0.52	> 0.9, < 1.1	> 0.9, < 1.1	0.47	Project: Midway-Andrew 230 KV - Scope under review
ESTRELLA 70 kv	PASO ROBLES-TEMPLETON 70kV [9400] & ESTRELLA 230/70kV TB 1	P6	N-1-1	0.51	0.49	0.49	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.55	0.52	0.48	> 0.9, < 1.1	0.68	0.49	Operating Solution
PSA RBLS 70 kv	PASO ROBLES-TEMPLETON 70kV [9400] & ESTRELLA 230/70kV TB 1	P6	N-1-1	0.51	0.49	0.49	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.55	0.52	0.47	> 0.9, < 1.1	0.68	0.49	Operating Solution
PALMR 115 kv	SANTA MARIA-SISQUOC 115kV [3610] & MESA-SISQUOC 115kV [2460]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Sensitivity Only
ATASCDRO 70 kv	TEMPLETON-ATASCADERO 70kV [9410] & ATASCADERO-SAN LUIS OBISPO 70kV [8490]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.84	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.86	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.84	Operating Solution
BNA VSTA 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.29	0.29	0.29	0.52	0.58	0.31	0.31	0.30	0.29	0.63	0.35	0.29	Operating Solution
BRIGTANO 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.61	0.62	0.61	0.76	0.81	0.61	0.62	0.62	0.62	0.84	0.65	0.61	Operating Solution
FIRESTNE 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.28	0.29	0.28	0.51	0.57	0.30	0.30	0.29	0.28	0.62	0.34	0.28	Operating Solution
FRSHXPRS 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.29	0.30	0.29	0.52	0.58	0.31	0.31	0.30	0.29	0.63	0.35	0.29	Operating Solution
GRANT RK 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.61	0.62	0.61	0.76	0.81	0.61	0.62	0.62	0.62	0.84	0.66	0.62	Operating Solution
LAURELES 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.27	0.27	0.28	0.51	0.58	0.30	0.29	0.29	0.26	0.63	0.33	0.28	Operating Solution
SPENCE 60 kv	SALINAS 115/60kV TB 2 & SALINAS 115/60kV TB 3	P6	N-1-1	0.28	0.28	0.28	0.51	0.57	0.30	0.30	0.29	0.28	0.62	0.34	0.28	Operating Solution
BORONDA 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.30	0.30	0.30	0.53	0.59	0.32	0.32	0.31	0.30	0.64	0.36	0.30	Operating Solution
ERTA 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.89	0.90	0.89	> 0.9, < 1.1	> 0.9, < 1.1	0.89	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.90	Operating Solution
GABILAN 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.29	0.30	0.29	0.52	0.59	0.31	0.31	0.30	0.29	0.64	0.36	0.29	Operating Solution

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
IND.ACRE 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.30	0.30	0.30	0.53	0.59	0.32	0.32	0.30	0.29	0.64	0.36	0.30	Operating Solution
LGNTS J1 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.29	0.30	0.29	0.52	0.59	0.31	0.31	0.30	0.29	0.64	0.35	0.29	Operating Solution
OTTER 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.26	0.27	0.27	0.51	0.58	0.29	0.29	0.28	0.26	0.63	0.33	0.28	Operating Solution
RSVTN RD 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.28	0.29	0.29	0.52	0.59	0.31	0.31	0.30	0.28	0.64	0.35	0.29	Operating Solution
WTSNVLLE 60 kv	SALINAS 115/60kV TB 3 & SALINAS 115/60kV TB 2	P6	N-1-1	0.83	0.85	0.84	> 0.9, < 1.1	> 0.9, < 1.1	0.83	0.84	0.85	0.85	> 0.9, < 1.1	0.86	0.84	Operating Solution
BA FOOD1 60 kv	COBURN 230/60kV TB 1 & COBURN-LASAGUILASS #1 230kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	Load power factor correction and voltage support if needed
KING CTY 60 kv	COBURN 230/60kV TB 1 & COBURN-LASAGUILASS #1 230kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	Load power factor correction and voltage support if needed
LOS OSTS 60 kv	COBURN 230/60kV TB 1 & COBURN-LASAGUILASS #1 230kV [0]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	1.11	> 0.9, < 1.1	> 0.9, < 1.1	Load power factor correction and voltage support if needed
SAN MIGL 70 kv	ESTRELLA 230/70kV TB 1 & PASO ROBLES-TEMPLETON 70kV [9400]	P6	N-1-1	0.53	0.51	0.51	> 0.9, < 1.1	> 0.9, < 1.1	0.55	0.56	0.54	0.50	> 0.9, < 1.1	0.70	0.51	Operating Solution
PALMR 115 kv	MESA PGE 230/115kV TB 2 & MESA PGE 230/115kV TB 3	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.56	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.57	0.68	> 0.9, < 1.1	> 0.9, < 1.1	0.55	Project: Midway-Andrew 230 KV - Scope under review
AECCEOR 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.55	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.56	0.66	> 0.9, < 1.1	> 0.9, < 1.1	0.53	Project: Midway-Andrew 230 KV - Scope under review
BAYWOOD 70 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.87	Project: Midway-Andrew 230 KV - Scope under review
BUELLTON 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.54	0.62	> 0.9, < 1.1	> 0.9, < 1.1	0.51	Project: Midway-Andrew 230 KV - Scope under review
CABRILLO 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.52	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.62	> 0.9, < 1.1	> 0.9, < 1.1	0.51	Project: Midway-Andrew 230 KV - Scope under review
CAMBRIA 70 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.87	Project: Midway-Andrew 230 KV - Scope under review
CAYUCOS 70 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.89	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	Project: Midway-Andrew 230 KV - Scope under review
MORRO BY 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.87	Project: Midway-Andrew 230 KV - Scope under review
OCEANO 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.68	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.69	0.81	> 0.9, < 1.1	> 0.9, < 1.1	0.66	Project: Midway-Andrew 230 KV - Scope under review
PERRY 70 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.88	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.87	Project: Midway-Andrew 230 KV - Scope under review
SN LS OB 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.78	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.79	0.87	> 0.9, < 1.1	> 0.9, < 1.1	0.77	Project: Midway-Andrew 230 KV - Scope under review
SNTA YNZ 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.52	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.53	0.61	> 0.9, < 1.1	> 0.9, < 1.1	0.51	Project: Midway-Andrew 230 KV - Scope under review
UNION OL 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.66	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.67	0.80	> 0.9, < 1.1	> 0.9, < 1.1	0.64	Project: Midway-Andrew 230 KV - Scope under review
ZACA 115 kv	MESA PGE 230/115kV TB 3 & MESA PGE 230/115kV TB 2	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	0.54	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.55	0.65	> 0.9, < 1.1	> 0.9, < 1.1	0.53	Project: Midway-Andrew 230 KV - Scope under review
MESA PGE 230 kv	MESA_PGE SVD=v & MORRO BAY-MESA 230kV [5290]	P6	N-1-1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	0.90	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	> 0.9, < 1.1	Project: Midway-Andrew 230 KV - Scope under review

Study Area: PG&E Central Coast
PG&E Los Padres

High/Low Voltages

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
GREN VLY 60 kv	GREEN VALLEY-WATSONVILLE 60kV [6970]	P7	DCTL	1.07	1.08	1.07	1.08	1.11	1.08	1.07	1.07	1.09	1.12	1.07	1.07	Load power factor correction and voltage support if needed
AGRILINK 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P7	DCTL	1.04	1.04	1.06	1.08	1.11	1.07	1.07	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed
ERTA 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P7	DCTL	1.04	1.05	1.06	1.08	1.11	1.07	1.07	1.07	1.06	1.11	1.05	1.06	Load power factor correction and voltage support if needed
GREN VLY 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P7	DCTL	1.05	1.05	1.06	1.08	1.11	1.07	1.07	1.07	1.06	1.11	1.05	1.06	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	WTSNVLLE-SALINAS2 60kV [0]	P7	DCTL	1.04	1.04	1.06	1.08	1.11	1.07	1.07	1.06	1.05	1.11	1.04	1.06	Load power factor correction and voltage support if needed

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Voltage Deviation

Substation	Contingency (All and Worst P6)	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)								Post Cont. Voltage Deviation % (Sensitivity Scenarios)				Project & Potential Mitigation Solutions
				2020 Summer Peak	2023 Summer Peak	2028 Summer Peak	2020 Spring Off-Peak	2023 Spring Off-Peak	2020 Winter Peak	2023 Winter Peak	2028 Winter Peak	2023 SP High CEC Forecast	2023 SpOP Hi Renew & Min Gas Gen	2020 SP Heavy Renewable & Min Gas Gen	2028 Retirement of QF Generations	
BRIGTANO 60 kv	GREEN VALLEY-WATSONVILLE 60kV [6970]	P1	N-1	3	3	8	6	7	8	8	9	3	7	3	8	Load power factor correction and voltage support if needed
GRANT RK 60 kv	GREEN VALLEY-WATSONVILLE 60kV [6970]	P1	N-1	3	3	8	6	7	8	8	9	3	7	3	8	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	GREEN VALLEY-WATSONVILLE 60kV [6970]	P1	N-1	4	4	12	8	11	11	12	13	5	11	4	12	Load power factor correction and voltage support if needed
BRIGTANO 60 kv	GRN VLLY 115/60kV TB 1	P1	N-1	3	3	4	6	7	8	8	4	4	7	3	4	Load power factor correction and voltage support if needed
ERTA 60 kv	GRN VLLY 115/60kV TB 1	P1	N-1	6	6	8	9	12	13	13	8	7	11	6	8	Load power factor correction and voltage support if needed
GRANT RK 60 kv	GRN VLLY 115/60kV TB 1	P1	N-1	3	3	5	6	7	8	8	4	4	7	3	5	Load power factor correction and voltage support if needed
GREN VLY 60 kv	GRN VLLY 115/60kV TB 1	P1	N-1	7	7	8	9	12	13	13	8	8	12	6	8	Load power factor correction and voltage support if needed
WTSNVLLE 60 kv	GRN VLLY 115/60kV TB 1	P1	N-1	5	5	7	8	11	12	12	7	6	11	5	7	Load power factor correction and voltage support if needed

Transient Stability

Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2020 Summer Peak	2028 Summer Peak	2023 Spring Off-Peak	2020 SP Heavy Renewable & Min Gas Gen	2023 SpOP Hi Renew & Min Gas Gen	
Diablo 3Ø fault with normal clearing.	P1-1	N-1	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Sw Station 3Ø fault with normal clearing.	P1-2	N-1	Diverge	Diverge	Diverge	Diverge	Diverge	Under Review with PTO
Mosslanding Sw Station 230/115 kV Bank #4 3Ø fault with normal clearing.	P1-3	N-1	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mesa 115 kv SVD 3Ø fault with normal clearing.	P1-4	N-1	WECC criteria not met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Under Review with PTO
Mosslanding Sw Sta 230 kV line breaker SLG fault with normal clearing.	P2-3	Non-Bus-Tie Breaker	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Sw Station 115kv bus-tie breaker SLG fault with normal clearing.	P2-4	Bus-Tie Breaker	Stable/WECC criteria met	Stable/WECC criteria met	WECC criteria not met	Stable/WECC criteria met	Stable/WECC criteria met	Under Review with PTO
Diablo 1 3Ø fault with normal clearing with Diablo 2 offline in the base case.	P3-1	G-1/N-1	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslndswsta-Lasaguilas 230 kV line 3Ø fault with normal clearing with Diablo Unit #2 offline in the base case.	P3-2	G-1/N-1	Diverge	Diverge	Diverge	Diverge	Diverge	Under Review with PTO
Mosslndswsta 230/115 kVBank # 4 3Ø fault with normal clearing with Diablo Unit #2 offline in the base case.	P3-3	G-1/N-1	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mesa 115 kV SVD 3Ø fault with normal clearing with Diablo offline in the base case.	P3-4	G-1/N-1	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	WECC criteria not met	Stable/WECC criteria met	Under Review with PTO
Duke Moss SLG fault expanded to elements lost due to stuck breaker and clear fault from remote breakers with normal clearing time.	P4-1	Stuck Breaker	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Switching Station SLG fault wih stuck breaker expanded o Mosslnsw-Duke Moss and Mosslndsw-Mecalf	P4-2	Stuck Breaker	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Switching Station SLG fault wih stuck breaker	P4-3	Stuck Breaker	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	WECC criteria not met	Under Review with PTO
Mesa 115 kV SVD SLG fault expanded to elements lost due to stuck breaker and clear fault from remote breakers with normal clearing time.	P4-4	Stuck Breaker	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Sw Station 115 kV bus SVD SLG fault expanded to elements lost due to stuck breaker and clear fault from remote breakers with normal clearing time.	P4-5	Stuck Breaker	WECC criteria not met	WECC criteria not met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Under Review with PTO

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Transient Stability

Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2020 Summer Peak	2028 Summer Peak	2023 Spring Off-Peak	2020 SP Heavy Renewable & Min Gas Gen	2023 SpOP Hi Renew & Min Gas Gen	
Mosslanding Sw Station 115 kV bus-tie breaker SVD SLG fault expanded to elements lost due to stuck breaker and clear fault from remote breakers with normal clearing time.	P4-6	Stuck Breaker	Stable/WECC criteria met	WECC criteria not met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Under Review with PTO
Duke Moss #6 unit with delayed clearing	P5-1	Non-Redundant Relay	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Switching Station -Duke Moss 230 KV line SLG Fault with delayed clearing	P5-2	Non-Redundant Relay	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Switching Station 230/115 KV Transformer Bank # 4 SLG fault with delayed clearing.	P5-3	Non-Redundant Relay	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mesa 115 KV SVD SLG fault with delayed clearing.	P5-4	Non-Redundant Relay	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Mosslanding Switching Station /115 KV Bus SLG fault with delayed clearing.	P5-5	Non-Redundant Relay	WECC criteria not met	Stable/WECC criteria met	Stable/WECC criteria met	WECC criteria not met	Stable/WECC criteria met	Under Review with PTO
Mosslndswsta-Coburn 230 kV line 3Ø fault with normal clearing with Metcalf 500/230 kV #13 Transformer offline in the base case.	P6-1	N-1-1	WECC criteria not met	WECC criteria not met	Diverge	WECC criteria not met	Diverge	Under Review with PTO
Mosslndswsta 230 kV bus 3Ø fault with normal clearing with Mosslndswsta 500/230 kV #9 Transformer offline in the base case.	P6-2	N-1-1	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Diablo 230 kV SVD 3Ø fault with normal clearing with Mesa 115 kV SVD offline in the base case.	P6-3	N-1-1	WECC criteria not met	Stable/WECC criteria met	Stable/WECC criteria met	WECC criteria not met	Stable/WECC criteria met	Under Review with PTO
Moss Landing- Green Valley # 1 & 2 SLG fault with unsuccessful high speed reclose.	P7-1	DCTL	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation
Moss Landing- Green Valley # 1 & 2 SLG fault with unsuccessful high speed reclose.	P7-1	DCTL	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	Stable/WECC criteria met	No Violation

Study Area: PG&E Central Coast
PG&E Los Padres

Single Contingency Load Drop

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)										Potential Mitigation Solutions
			Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	

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

2018-2019 ISO Reliability Assessment - Preliminary Study Results

Study Area: PG&E Central Coast

PG&E Los Padres

Single Source Substation with more than 100 MW Load

Substation	Load Served (MW)										Potential Mitigation Solutions
	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	

No single source substation with of more than 100 MW