2026-2027 ISO Reliability Assessment - Study Results
Study Area: PG&E Bulk
Thermal Overloads

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)									Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2041 Summer Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2036 Winter Off-Peak	2041 Winter Peak	2028 Spring OP Sensitivity	2031 SpOP Hi Renew & Min Gas Gen	2031 SP High CEC Forecast	
24593 MN_VINCNT_21 500 24592 MN_VINCNT_22 500 2 1	P1-2:A0:29:_MIDWAY-VINCENT 500KV 1[0]	P1-2	L-1	102%	100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	Please refer to Southern bulk results
30060 MIDWAY 500 24591 MW_VINCNT_11 500 1 1	P1-2:A0:30:_MIDWAY-VINCENT 500KV 2[0]	P1-2	L-1	<100%	<100%	<100%	119%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Please refer to Southern bulk results
30052 MANNING 500 300562 MNG_HRL_21 500 2 1	P1-2:A0:25:_GATES-MIDWAY 500KV [5990]	P1-2	L-1	<100%	<100%	117%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
30055 GATES 500 300551 GAT_MDW_11 500 1 1	P1-2:A0:23:_MANNING-HARLAN 500KV 2[0]	P1-2	L-1	<100%	<100%	124%	<100%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P1-2:A0:24:_HARLAN-MIDWAY 500KV 2[0]	P1-2	L-1	<100%	<100%	100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30460 VACA-DIXON F 230 30465 BAHIA 230 1 1	P1-2:A0:11:_VACA-DIX-COLLINSVILLE 500KV [0]	P1-2	L-1	<100%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Continue to monitor.
	P1-2:A0:12:_COLLINSVILLE-TESLA E 500KV [0]	P1-2	L-1	<100%	<100%	<100%	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30460 VACA-DIXON F 230 30467 PARKWAY 230 1 1	P1-2:A0:10:_OLINDA-TRACY 500KV [0]	P1-2	L-1	<100%	<100%	<100%	110%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Continue to monitor.
	P1-2:A0:11:_VACA-DIX-COLLINSVILLE 500KV [0]	P1-2	L-1	<100%	<100%	<100%	119%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-2:A0:33:_COLLINSVILLE-PITTSBURG-D #1 230KV [0]	P1-2	L-1	<100%	<100%	<100%	110%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-2:A0:34:_COLLINSVILLE-PITTSBURG-E 230KV [0]	P1-2	L-1	<100%	<100%	<100%	110%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30765 LOSBANOS 230 30768 POLELINE 230 1 1	P1-2:A0:19:_LOSBANOS-GATES 500KV 3[6000]	P1-2	L-1	N/A	<100%	105%	<100%	NA	<100%	<100%	<100%	<100%	<100%	NA	<100%	Path flow adjustment or transmission solution.
	P1-2:A0:36:_MANNING - METCALF 500 kV [0]	P1-2	L-1	N/A	N/A	105%	<100%	NA	NA	<100%	<100%	<100%	NA	NA	NA	
30906 GATES F 230 367101 Q1593SWSTA 230 1 1	P1-2:A0:23:_MANNING-HARLAN 500KV 2[0]	P1-2	L-1	<100%	<100%	114%	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P1-2:A0:24:_HARLAN-MIDWAY 500KV 2[0]	P1-2	L-1	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-2:A0:25:_GATES-MIDWAY 500KV [5990]	P1-2	L-1	<100%	<100%	119%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-3:A0:18:_MIDWAY 500/230KV TB 11	P1-3	L-1	<100%	<100%	<100%	111%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-3:A0:19:_MIDWAY 500/230KV TB 12	P1-3	L-1	<100%	<100%	<100%	111%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-3:A0:20:_MIDWAY 500/230KV TB 13	P1-3	L-1	<100%	<100%	<100%	111%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-3:A0:5:_TABLE MTN 500/230KV TB 5	P1-3	L-1	<100%	<100%	<100%	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
300551 GAT_MDW_11 500 30060 MIDWAY 500 1 1	P1-2:A0:23:_MANNING-HARLAN 500KV 2[0]	P1-2	L-1	<100%	<100%	125%	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P1-2:A0:24:_HARLAN-MIDWAY 500KV 2[0]	P1-2	L-1	<100%	<100%	102%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
367101 Q1593SWSTA 230 30971 MIDWAY-F 230 1 1	P1-2:A0:25:_GATES-MIDWAY 500KV [5990]	P1-2	L-1	<100%	<100%	<100%	105%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P1-3:A0:17:_GATES 500/230KV TB 12	P1-3	L-1	<100%	<100%	<100%	112%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
24593 MN_VINCNT_21 500 24592 MN_VINCNT_22 500 2 1	P2-1:A0:19:_MIDWAY-VINCENT #1 500kV [9511] (MIDWAY-MN_VINCNT_	P2-1	bus-bkr	102%	100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	Please refer to Southern bulk results
	P2-1:A0:49:_MIDWAY-VINCENT #1 500kV [9511] (MN_VINCNT_12-VINCE	P2-1	bus-bkr	101%	100%	<100%	<100%	<100%	<100%	NA	NA	NA	<100%	<100%	100%	
	P2-3:A0:140:_MIDWAY 500kV - Middle Breaker Bay 2	P2-3	bus-bkr	102%	100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	
30015 TABLE MTN 500 300153 TM_TS_11 500 1 1	P2-3:A0:105:_TABLE MTN 500KV - MIDDLE BREAKER BAY 1	P2-3	bus-bkr	NConv	NConv	<95%	NConv	<95%	<95%	<95%	<95%	<95%	<95%	<95%	NConv	Under review.
30052 MANNING 500 300562 MNG_HRL_21 500 2 1	P2-1:A0:18:_GATES-MIDWAY 500kV [5990] (GATES-GT_MW_11)	P2-1	bus-bkr	<100%	<100%	117%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P2-1:A0:39:_GATES-MIDWAY 500kV [5990] (MIDWAY-GAT_MDW_11)	P2-1	bus-bkr	<100%	<100%	117%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:133:_GATES 500kV - Middle Breaker Bay 5	P2-3	bus-bkr	<100%	<100%	101%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:142:_MIDWAY 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	118%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:30:_GATES 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	121%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30055 GATES 500 300551 GAT_MDW_11 500 1 1	P2-1:A0:16:_MANNING-HARLAN 500KV 2[0] (MANNING-MNG_HAR_21)	P2-1	bus-bkr	<100%	<100%	124%	<100%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P2-1:A0:37:_MANNING-HARLAN 500KV 2[0] (MANNING-MNG_HAR_21)	P2-1	bus-bkr	<100%	<100%	124%	<100%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	
	P2-1:A0:38:_HARLAN-MIDWAY 500KV 2[0] (HRL_MDW_24-MIDWAY)	P2-1	bus-bkr	<100%	<100%	100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:152:_MANNING 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	<100%	<100%	124%	<100%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:153:_HARLAN 500kV - Middle Breaker Bay X	P2-3	bus-bkr	<100%	<100%	114%	<100%	<100%	<100%	102%	<100%	<100%	<100%	<100%	<100%	
30060 MIDWAY 500 24591 MW_VINCNT_11 500 1 1	P2-1:A0:20:_MIDWAY-VINCENT #2 500kV [9512] (MIDWAY-MN_VINCNT_	P2-1	bus-bkr	<100%	<100%	<100%	120%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Please refer to Southern bulk results
	P2-1:A0:41:_MIDWAY-VINCENT #2 500kV [9512] (MN_VINCNT_22-VINCE	P2-1	bus-bkr	<100%	<100%	<100%	119%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:141:_MIDWAY 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	<100%	<100%	<100%	119%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30585 LS PSTAS 230 30630 NEWARK D 230 1 1	P2-3:A0:118:_TESLA 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	103%	103%	<100%	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	103%	Refer to regional results
30590 VASCOWINDJCT 230 30530 CAYETANO 230 1 1	P2-3:A0:118:_TESLA 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	102%	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30655 PPASSJCT 230 30631 NEWARK E 230 2 1	P2-3:A0:118:_TESLA 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	106%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
300052 FR_TM_12 500 30015 TABLE MTN 500 1 1	P2-1:A0:7:_TABLE MTN-FERN RD #2 500kV [9504] (FR_TM_22-TABLE MTI	P2-1	bus-bkr	116%	<100%	<100%	113%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	PACI RAS SC bypass combined with operating to nomograms precontingency.
	P2-3:A0:106:_TABLE MTN 500KV - MIDDLE BREAKER BAY 2	P2-3	bus-bkr	NConv	<100%	<100%	<100%	<95%	<100%	<100%	<100%	<100%	<100%	<95%	<100%	
	P2-3:A0:145:_FERNROADSS 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	NConv	NConv	<95%	<95%	<95%	<100%	<95%	<100%	<95%	<100%	<95%	NConv	
300060 FERNROADSS 500 300052 FR_TM_12 500 1 1	P2-3:A0:106:_TABLE MTN 500KV - MIDDLE BREAKER BAY 2	P2-3	bus-bkr	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	PACI RAS SC bypass combined with operating to nomograms precontingency.
	P2-3:A0:107:_TABLE MTN 500KV - MIDDLE BREAKER BAY 3	P2-3	bus-bkr	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
	P2-3:A0:145:_FERNROADSS 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	NConv	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
300060 FERNROADSS 500 300054 FR_TM_22 500 2 1	P2-1:A0:27:_TABLE MTN-FERN RD #1 500kV [9503] (FERNROADSS-FR_TM	P2-1	bus-bkr	NConv	NConv	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	NConv	NConv	
	P2-1:A0:6:_TABLE MTN-FERN RD #1 500kV [9503] (FR_TM_12-TABLE MTI	P2-1	bus-bkr	118%	105%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	106%	
	P2-3:A0:105:_TABLE MTN 500KV - MIDDLE BREAKER BAY 1	P2-3	bus-bkr	NConv	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
	P2-1:A0:6:_TABLE MTN-FERN RD #1 500kV [9503] (FR_TM_12-TABLE MTI	P2-1	bus-bkr	<100%	<100%	<100%	115%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
300551 GAT_MDW_11 500 30060 MIDWAY 500 1 1	P2-1:A0:16:_MANNING-HARLAN 500KV 2[0] (MANNING-MNG_HAR_21)	P2-1	bus-bkr	<100%	<100%	125%	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P2-1:A0:37:_MANNING-HARLAN 500KV 2[0] (MANNING-MNG_HAR_21)	P2-1	bus-bkr	<100%	<100%	125%	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	
	P2-1:A0:38:_HARLAN-MIDWAY 500KV 2[0] (HRL_MDW_24-MIDWAY)	P2-1	bus-bkr	<100%	<100%	102%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:152:_MANNING 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	<100%	<100%	126%	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:153:_HARLAN 500kV - Middle Breaker Bay X	P2-3	bus-bkr	<100%	<100%	115%	<100%	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	
300562 MNG_HRL_21 500 30056 HARLANSWSTA 500 2 1	P2-1:A0:18:_GATES-MIDWAY 500kV [5990] (GATES-GT_MW_11)	P2-1	bus-bkr	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	P2-1:A0:39:_GATES-MIDWAY 500kV [5990] (MIDWAY-GAT_MDW_11)	P2-1	bus-bkr	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:142:_MIDWAY 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	105%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:30:_GATES 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
300566 HRL_MDW_23 500 300567 HRL_MDW_24 500 2 1	P2-3:A0:30:_GATES 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	102%	<100%	<100%	<100%	100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
300567 HRL_MDW_24 500 30060 MIDWAY 500 2 1	P2-3:A0:30:_GATES 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	103%	<100%	<100%	<100%	101%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:107:_TABLE MTN 500KV - MIDDLE BREAKER BAY 3	P2-3	bus-bkr	<100%	NConv	101%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
	P2-3:A0:115:_TRACY 500kV - Middle Breaker Bay 1	P2-3	bus-bkr	<100%	<100%	101%	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:118:_TESLA 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	<100%	<100%	101%	105%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:124:_METCALF 500kV - Middle Breaker Bay 3	P2-3	bus-bkr	<100%	<100%	101%	105%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:126:_MOSSLAND 500kV - Middle Breaker Bay 4	P2-3	bus-bkr	<100%	<100%	101%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P2-3:A0:23:_MOSSLAND 500kV - Middle Breaker Bay 2	P2-3	bus-bkr	<100%	<100%	101%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30052 MANNING 500 300562 MNG_HRL_21 500 2 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	154%	<100%	<100%	<100%	124%	<100%	<100%	<100%	<100%	<100%	Redundent battery supply.
30052 MANNING 500 390010 MNMC_SC1 500 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NA	NA	NA	NA	NA	<100%	126%	NA	NA	NA	
	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NConv	<100%	NA	NA	118%	<100%	NA	NA	NA	NA	
30056 HARLANSWSTA 500 300564 HRL_MDW_21 500 2 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	111%	<100%	<100%	<100%	103%	<100%	<100%	<100%	<100%	<100%	
30460 VACA-DIXON F 230 30465 BAHIA 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30460 VACA-DIXON F 230 30467 PARKWAY 230 1 1	P5-5(DC):A0:2:_Station DC Battery Supply Table Mtn 500-230-115-60kV B	P5-5(DC)	relay	<100%	<100%	<100%	NConv	<100%	NConv	<100%	<100%	NConv	<100%	<100%	<100%	
	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	108%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	103%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30515 WARNERVL 230 30516 WILSONRCTR 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	<100%	<100%	128%	116%	<100%	<100%	128%	<100%	<100%	
	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	<100%	<100%	NConv	NConv	
30516 WILSONRCTR 230 30800 WILSON 230 BP 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	<100%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	NConv	<100%	
30516 WILSONRCTR 230 30800 WILSONPGAE 230 BP 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	<100%	<100%	127%	115%	<100%	<100%	127%	<100%	<100%	
30525 C.COSTAPPD 230 30585 LS PSTAS 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	101%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30526 PITTSBURG-D 230 38952 TBC_PTB1 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	111%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30530 CAYETANO 230 30537 NDUBLIN 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	104%	109%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30537 NDUBLIN 230 35219 VINEYARD 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	122%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30550 MORAGA 230 30554 CASTROVL 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	130%	116%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30554 CASTROVL 230 30631 NEWARK E 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	128%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30562 SRRC JCT 230 30631 NEWARK E 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	102%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30567 LONETREE 230 30590 VASCOWINDJCT 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	107%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	107%	111%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30574 WINDMASTERJT 230 38610 DELTAPMP 230 1 1	P5-5(DC):A0:3:_Station DC Battery Supply Vaca-Dixon 500kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	103%	<100%	<100%	
30585 LS PSTAS 230 30630 NEWARK D 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	111%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	111%	133%	114%	NConv	<100%	106%	<100%	<100%	<100%	<100%	<100%	NConv	
30590 VASCOWINDJCT 230 30530 CAYETANO 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	107%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	108%	117%	107%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30624 TESLA E 230 30630 NEWARK D 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	108%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30630 NEWARK D 230 364604 NSJ-MIDPNTSS 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	163%	131%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30631 NEWARK E 230 30628 NWRK_11M 13.2 11 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	111%	NA	NA	<100%	<100%	NA	NA	NA	<100%	<100%	NConv	
30631 NEWARK E 230 30635 NWK DIST 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	131%	113%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30635 NWK DIST 230 30731 LS ESTRS 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	128%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30635 NWK DIST 230 30731 LS ESTRS 230 1 2	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	121%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30635 NWK DIST 230 30731 LS ESTRS 230 1 3	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	121%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30635 NWK DIST 230 30731 LS ESTRS 230 1 4	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	120%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30640 TESLA C 230 30655 PPASSJCT 230 2 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	108%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30655 PPASSJCT 230 30631 NEWARK E 230 2 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	114%	108%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30705 MONTAVIS 230 35356 MNTA VSA 115 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NConv	123%	NA	NA	<100%	<100%	<100%	NA	NA	NA	
30736 METCALF2D 230 30731 LS ESTRS 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	103%	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	117%	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	117%	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	116%	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	NA	<100%	<100%	NA	NA	NA	<100%	<100%	<100%	
30743 METCALFF 230 30042 METCALF 500 14 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	NA	NA	172%	NConv	NA	NA	145%	124%	184%	NA	NA	NA	
30743 METCALFF 230 30705 MONTAVIS 230 3 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	NA	NA	128%	NConv	NA	NA	<100%	<100%	<100%	NA	NA	NA	
30755 MOSSLNSW 230 30798 LASAGLSRCTR 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	108%	113%	NConv	<100%	<100%	169%	<100%	<100%	111%	170%	158%	124%	
30761 FINKSWSTA 230 30670 WESTLEY 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	107%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	108%	NConv	<100%	<100%	<100%	<100%	102%	<100%	<100%	NConv	
30763 QUINTO_SS 230 30761 FINKSWSTA 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	<100%	100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
30765 LOSBANOS 230 30768 POLELINE 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	NA	<100%	100%	NConv	NA	<100%	<100%	<100%	<100%	<100%	NA	<100%	
	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	NA	<100%	106%	<100%	NA	<100%	<100%	<100%	<100%	<100%	NA	<100%	
	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	NA	<100%	104%	NConv	NA	<100%	<100%	<100%	<100%	<100%	NA	NConv	
30790 PANOCHE 230 30902 GATES E 230 2 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	<100%	<100%	<100%	

2026-2027 ISO Reliability Assessment - Study Results
Study Area: PG&E Bulk
Thermal Overloads

California ISO

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)									Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2041 Summer Peak	2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer-Off Peak	2036 Winter Off-Peak	2041 Winter Peak	2028 Spring OP Sensitivity	2031 SpOP Hi Renew & Min Gas Gen	2031 SP High CEC Forecast	
30797 LASAGUILASS 230 30790 PANOCHE 230 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	<100%	<100%	122%	<100%	<100%	<100%	122%	104%	<100%	
	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	<100%	<100%	123%	<100%	<100%	<100%	123%	104%	<100%	
30900 GATES D 230 30889 CALFLATSSS 230 1 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	NConv	112%	<100%	NConv	NConv	
30900 GATES D 230 367211 14C1959SS 230 1 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NA	NA	NConv	<100%	NA	NA	NConv	<100%	109%	NA	NA	NA	
30902 GATES E 230 34607 GATES11M 13.8 11 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	118%	<100%	NConv	NConv	
30905 TEMPLETON 230 30915 MORROBAY 230 1 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	124%	<100%	NConv	NConv	
30906 GATES F 230 30935 ARCO 230 1 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	180%	<100%	NConv	NConv	
30906 GATES F 230 34657 GATES12M 13.8 12 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	108%	<100%	NConv	NConv	
30906 GATES F 230 367101 Q1593SWSTA 230 1 1	P5-5[DC]:A0:1:_Station DC Battery Supply Round Mtn 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	106%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:2:_Station DC Battery Supply Table Mtn 500-230-115-60kV B	P5-5(DC)	relay	<100%	<100%	NConv	NConv	<100%	<100%	<100%	<100%	NConv	<100%	<100%	<100%	
	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	119%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	220%	<100%	NConv	NConv	
30915 MORROBAY 230 30916 SOLARSS 230 1 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	125%	<100%	NConv	NConv	
30915 MORROBAY 230 30916 SOLARSS 230 2 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	125%	<100%	NConv	NConv	
30935 ARCO 230 30970 MIDWAY-E 230 1 1	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	172%	<100%	NConv	NConv	
35671 METCALFRCTR1 115 30735 METCALF1D 230 1 1	P5-5[DC]:A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	108%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
37015 PROCTER 230 37009 HEDGE 230 1 1	P5-5[DC]:A0:2:_Station DC Battery Supply Table Mtn 500-230-115-60kV B	P5-5(DC)	relay	<100%	<100%	NConv	NConv	<100%	NConv	NConv	NConv	<100%	NConv	<100%	<100%	
38206 COTTLE 230 37563 MELONES 230 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	<100%	<100%	<100%	101%	<100%	<100%	<100%	<100%	<100%	
38900 NRS 230 364606 TRIMBLE 230 1 1	P5-5[DC]:A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	NA	<100%	114%	NConv	NA	<100%	<100%	<100%	105%	<100%	NA	<100%	
300001 CJ_OL_13 500 30020 OLINDA 500 1 1	P5-5[DC]:A0:1:_Station DC Battery Supply Round Mtn 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	100%	<100%	<100%	NConv	<100%	<100%	101%	<100%	<100%	
300562 MNG_HRL_21 500 30056 HARLANSWSTA 500 2 1	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	137%	<100%	<100%	<100%	111%	101%	<100%	<100%	<100%	<100%	
300564 HRL_MDW_21 500 300565 HRL_MDW_22 500 2 1	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	125%	<100%	<100%	<100%	116%	<100%	<100%	<100%	<100%	<100%	
300565 HRL_MDW_22 500 300566 HRL_MDW_23 500 2 1	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	111%	<100%	<100%	<100%	103%	<100%	<100%	<100%	<100%	<100%	
300566 HRL_MDW_23 500 300567 HRL_MDW_24 500 2 1	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	141%	<100%	<100%	106%	131%	<100%	<100%	<100%	109%	<100%	
300567 HRL_MDW_24 500 30060 MIDWAY 500 2 1	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	142%	<100%	101%	107%	132%	<100%	<100%	<100%	110%	<100%	
356166 SKYLINE 230 356167 SANJOSEB230 230 1 1	P5-5[DC]:A0:1:_Station DC Battery Supply Round Mtn 500-230kV Batt	P5-5(DC)	relay	<100%	102%	101%	103%	<100%	<100%	NConv	<100%	<100%	<100%	<100%	102%	
	P5-5[DC]:A0:2:_Station DC Battery Supply Table Mtn 500-230-115-60kV B	P5-5(DC)	relay	<100%	102%	NConv	NConv	<100%	NConv	<100%	<100%	<100%	<100%	<100%	102%	
	P5-5[DC]:A0:3:_Station DC Battery Supply Vaca-Dixon 500kV Batt	P5-5(DC)	relay	<100%	<100%	100%	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	<100%	101%	103%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	102%	
	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	NConv	105%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	100%	103%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:9:_Station DC Battery Supply Diablo Canyon 500-230kV Batt	P5-5(DC)	relay	<100%	<100%	101%	104%	<100%	<100%	NConv	102%	<100%	<100%	<100%	<100%	
364604 NSJ-MIDPNTSS 230 38900 NRS 230 1 1	P5-5[DC]:A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5-5(DC)	relay	<100%	144%	122%	NConv	<100%	<100%	<100%	<100%	<100%	<100%	<100%	NConv	
365224 Q1135 230 365223 Q1135Q1391 230 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	104%	<100%	<100%	<100%	
365431 Q1596 500 365443 Q1596 230 1 1	P5-5[DC]:A0:1:_Station DC Battery Supply Round Mtn 500-230kV Batt	P5-5(DC)	relay	NA	<100%	104%	110%	NA	<100%	<100%	<100%	<100%	<100%	NA	102%	
	P5-5[DC]:A0:2:_Station DC Battery Supply Table Mtn 500-230-115-60kV B	P5-5(DC)	relay	NA	<100%	104%	110%	NA	<100%	<100%	<100%	<100%	<100%	NA	102%	
	P5-5[DC]:A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5-5(DC)	relay	NA	<100%	104%	NConv	NA	<100%	<100%	<100%	<100%	<100%	NA	101%	
	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	<100%	104%	111%	NA	<100%	<100%	<100%	<100%	<100%	NA	<100%	
	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	NA	<100%	100%	108%	NA	<100%	<100%	<100%	<100%	<100%	NA	<100%	
	P5-5[DC]:A0:9:_Station DC Battery Supply Diablo Canyon 500-230kV Batt	P5-5(DC)	relay	NA	<100%	<100%	111%	NA	<100%	NConv	<100%	101%	<100%	NA	<100%	
367101 Q1593SWSTA 230 30971 MIDWAY-F 230 1 1	P5-5[DC]:A0:6:_Station DC Battery Supply Gates 500kV Batt	P5-5(DC)	relay	<100%	<100%	<100%	130%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	P5-5[DC]:A0:7:_Station DC Battery Supply Midway 500kV Batt	P5-5(DC)	relay	NConv	NConv	NConv	NConv	NConv	NConv	NConv	<100%	213%	112%	NConv	NConv	
390010 MNMC_SC1 500 390011 MNMC_SC2 500 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NA	NA	NA	NA	NA	<100%	124%	NA	NA	NA	
390011 MNMC_SC2 500 30042 METCALF 500 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NA	NA	NA	NA	NA	<100%	126%	NA	NA	NA	
399110 MNMC_SC1 500 399111 MNMC_SC2 500 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NConv	<100%	NA	NA	107%	<100%	NA	NA	NA	NA	
399111 MNMC_SC2 500 30042 METCALF 500 1 1	P5-5[DC]:A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5-5(DC)	relay	NA	NA	NConv	<100%	NA	NA	117%	<100%	NA	NA	NA	NA	
30460 VACA-DIXON F 230 30467 PARKWAY 230 1 1	P7-1:2:_PDCI Bipole outage	P7-1	L-1/L-1	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Continue to monitor.
30705 MONTAVIS 230 35356 MNTA VSA 115 1 1	P7-1:2:_PDCI Bipole outage	P7-1	L-1/L-1	<100%	NA	<100%	124%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30105 COTWD_E 230 30245 ROUND MT 230 3 1	CAPTJACK-OLINDA 500KV [0] & DIABLOCNYN1 25.0KV GEN UNIT 1	P3	L-1/G-1	108%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
30015 TABLE MTN 500 300153 TM_TS_11 500 1 1	OLINDA-TRACY 500KV [0] & COLLINSVILLE-TESLA E 500KV [0]	P6	L-1/L-1	<100%	<100%	<100%	108555%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Continue to monitor.
30554 CASTROVL 230 30631 NEWARK E 230 1 1	TESLA-METCALF 500KV [6110] & MOSSLANDING-LOSBANOS 500KV [6040]	P6	L-1/L-1	<100%	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	109%	Interim operating solution.
30755 MOSSLNSW 230 30798 LASAGLSRCTR 230 1 1	MOSSLANDING-LOSBANOS 500KV [6040] & TESLA-METCALF 500KV [6110]	P6	L-1/L-1	117%	114%	<100%	<100%	<100%	124%	<100%	<100%	<100%	118%	136%	119%	Interim operating solution.
	MOSSLANDING-LOSBANOS 500KV [6040] & MANNING - METCALF 500 kV [0]	P6	L-1/L-1	<100%	<100%	123%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	TESLA-METCALF 500KV [6110] & MOSSLANDING-LOSBANOS 500KV [6040]	P6	L-1/L-1	104%	113%	<100%	<100%	<100%	125%	<100%	<100%	<100%	118%	132%	119%	
30631 NEWARK E 230 30635 NWK DIST 230 1 1	TESLA-METCALF 500KV [6110] & MOSSLANDING-LOSBANOS 500KV [6040]	P6	L-1/L-1	101%	118%	<100%	<100%	<100%	112%	<100%	<100%	<100%	116%	108%	119%	Interim operating solution.
30635 NWK DIST 230 30731 LS ESTRS 230 1 2	TESLA-METCALF 500KV [6110] & MOSSLANDING-LOSBANOS 500KV [6040]	P6	L-1/L-1	<100%	107%	<100%	<100%	<100%	113%	<100%	<100%	<100%	117%	109%	109%	
356166 SKYLINE 230 356167 SANJOSEB230 230 1 1	DALLASESC1 34.5/500KV TB 1 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	103%	101%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	103%	Path flow adjustment or transmission solution.
	MANNING - METCALF 500 kV [0] & METCALF-MOSSLANDING 500KV [605	P6	L-1/L-1	<100%	<100%	106%	108%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	METCALF 500/230KV TB 14 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	<100%	<100%	109%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	HARLAN-MIDWAY 500KV 2[0] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	TESLA-METCALF 500KV [6110] & MOSSLANDING-LOSBANOS 500KV [6040]	P6	L-1/L-1	<100%	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	
	TESLA 500/230KV TB 2 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	103%	<100%	108%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	103%	
30906 GATES F 230 367101 Q1593SWSTA 230 1 1	MIDWAY 500/230KV TB 13 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	114%	<100%	124%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	101%	Generation redispatch
	GATES-MIDWAY 500KV [5990] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	217%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	MIDWAY 500/230KV TB 13 & OLINDA-TRACY 500KV [0]	P6	L-1/L-1	<100%	104%	<100%	155%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	GATES-MIDWAY 500KV [5990] & GATES-DIABLO 500KV [5960]	P6	L-1/L-1	<100%	<100%	153%	<100%	<100%	<100%	<100%	113%	<100%	<100%	<100%	<100%	
	MIDWAY 500/230KV TB 12 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	113%	<100%	123%	<100%	<100%	<100%	<100%	120%	<100%	<100%	<100%	
38610 DELTAPMP 230 30580 SANDHLWJCT 230 1 1	TABLE MT-VACA 500KV [6090] & COLLINSVILLE-TESLA 500KV [0]	P6	L-1/L-1	<100%	120%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	104%	113%	Interim operating solution.
30580 SANDHLWJCT 230 30625 TESLA D 230 1 1	TABLE MT-VACA 500KV [6090] & COLLINSVILLE-TESLA 500KV [0]	P6	L-1/L-1	<100%	101%	<100%	<100%	106%	<100%	<100%	<100%	<100%	<100%	104%	<100%	
30035 TRACY 500 37510 TCY MP2 500 2 1	TRACY 500/230KV TB 1 & TRACY-TESLA 500KV [6120]	P6	L-1/L-1	<100%	<100%	<100%	115%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	Path flow adjustment or transmission solution.
30035 TRACY 500 37508 TCY MP1 500 1 1	TRACY 500/230KV TB 2 & TRACY-TESLA 500KV [6120]	P6	L-1/L-1	<100%	<100%	<100%	115%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	100%	
37585 TRCY PMP 230 37510 TCY MP2 500 2 1	TRACY 500/230KV TB 1 & TRACY-TESLA 500KV [6120]	P6	L-1/L-1	<100%	<100%	<100%	112%	106%	<100%	<100%	<100%	<100%	<100%	107%	<100%	
37585 TRCY PMP 230 37508 TCY MP1 500 1 1	TRACY 500/230KV TB 2 & TRACY-TESLA 500KV [6120]	P6	L-1/L-1	<100%	<100%	<100%	112%	106%	<100%	<100%	<100%	<100%	<100%	107%	<100%	
30042 METCALF 500 30045 MOSSLAND 500 1 1	MANNING - METCALF 500 kV [0] & TESLA-LOSBANOS 500KV [6100]	P6	L-1/L-1	<100%	<100%	116%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	TESLA-METCALF 500KV [6110] & MANNING - METCALF 500 kV [0]	P6	L-1/L-1	<100%	<100%	111%	108%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	MIDWAY-VINCENT 500KV 2[0] & MIDWAY-VINCENT 500KV 1[0]	P6	L-1/L-1	<100%	<100%	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	<100%	
24594 MN_WRLWND_32 500 29402 WIRLWIND 500 3 1	MIDWAY-VINCENT 500KV 2[0] & MIDWAY-VINCENT 500KV 1[0]	P6	L-1/L-1	<100%	<100%	<100%	<100%	<100%	107%	<100%	102%	102%	<100%	<100%	<100%	Please refer to Southern bulk results
	MIDWAY-VINCENT 500KV 1[0] & MIDWAY-VINCENT 500KV 2[0]	P6	L-1/L-1	<100%	<100%	<100%	<100%	<100%	106%	<100%	102%	106%	<100%	<100%	<100%	
30052 MANNING 500 300562 MNG_HRL_21 500 2 1	GATES-MIDWAY 500KV [5990] & GATES-DIABLO 500KV [5960]	P6	L-1/L-1	<100%	<100%	139%	<100%	<100%	<100%	<100%	103%	<100%	<100%	<100%	<100%	Interim operating solution.
30765 LOSBANOS 230 30768 POLELINE 230 1 1	MANNING 500/230KV TB 2 & MANNING 500/230KV TB 1	P6	L-1/L-1	<100%	<100%	108%	<100%	<100%	<100%	<100%	<100%	104%	<100%	<100%	<100%	
300566 HRL_MDW_23 500 300567 HRL_MDW_24 500 2 1	GATES-MIDWAY 500KV [5990] & GATES-DIABLO 500KV [5960]	P6	L-1/L-1	<100%	<100%	124%	<100%	111%	103%	<100%	107%	<100%	<100%	115%	<100%	Path flow adjustment or transmission solution.
300566 HRL_MDW_23 500 300567 HRL_MDW_24 500 2 1	GATES-MIDWAY 500KV [5990] & GATES-DIABLO 500KV [5960]	P6	L-1/L-1	<100%	<100%	123%	<100%	110%	102%	<100%	106%	<100%	<100%	114%	<100%	
300512 LB_GT_32 500 30055 GATES 500 3 1	MANNING-GATES 500KV 1[0] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	148%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30050 LOSBANOS 500 300511 LB_GT_31 500 3 1	MANNING-GATES 500KV 1[0] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	147%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
300511 LB_GT_31 500 300512 LB_GT_32 500 3 1	MANNING-GATES 500KV 1[0] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	147%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30040 TESLA D 500 30050 LOSBANOS 500 1 1	MANNING - METCALF 500 kV [0] & TRACY-LOSBANOS 500KV [6130]	P6	L-1/L-1	<100%	<100%	120%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30040 TESLA D 500 30042 METCALF 500 1 1	METCALF-MOSSLANDING 500KV [6050] & MANNING - METCALF 500 kV [	P6	L-1/L-1	<100%	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
30052 MANNING 500 300501 MNG_GAT_11 500 1 1	LOSBANOS-GATES 500KV 3[6000] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	148%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	MANNING-HARLAN 500KV 2[0] & LOSBANOS-GATES 500KV 3[6000]	P6	L-1/L-1	<100%	<100%	146%	<100%	<100%	<100%	101%	101%	<100%	<100%	<100%	<100%	
300501 MNG_GAT_11 500 30055 GATES 500 1 1	LOSBANOS-GATES 500KV 3[6000] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	147%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
	MANNING-HARLAN 500KV 2[0] & LOSBANOS-GATES 500KV 3[6000]	P6	L-1/L-1	<100%	<100%	146%	<100%	<100%	<100%	101%	101%	<100%	<100%	<100%	<100%	
30935 ARCO 230 30970 MIDWAY-E 230 1 1	GATES-MIDWAY 500KV [5990] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	122%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Interim operating solution.
30055 GATES 500 30057 DIABLOCNYNSS 500 1 1	GATES-MIDWAY 500KV [5990] & MANNING-HARLAN 500KV 2[0]	P6	L-1/L-1	<100%	<100%	117%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Interim operating solution.
30790 PANOCHE 230 30902 GATES E 230 2 1	LOSBANOS-GATES 500KV 3[6000] & MANNING-GATES 500KV 1[0]	P6	L-1/L-1	<100%	<100%	107%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Interim operating solution.
30060 MIDWAY 500 24593 MW_VINCNT_21 500 2 1	MIDWAY-WIRLWIND 500KV [0] & MIDWAY-VINCENT 500KV 1[0]	P6	L-1/L-1	<100%	<100%	112%	106%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Please refer to Southern bulk results
30060 MIDWAY 500 24591 MW_VINCNT_11 500 1 1	MIDWAY-WIRLWIND 500KV [0] & MIDWAY-VINCENT 500KV 2[0]	P6	L-1/L-1	<100%	<100%	136%	126%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
	MIDWAY-VINCENT 500KV 2[0] & MIDWAY-WIRLWIND 500KV [0]	P6	L-1/L-1	<100%	<100%	135%	132%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30624 TESLA E 230 30670 WESTLEY 230 1 1	TESLA 500/230KV TB 2 & MANNING - METCALF 500 kV [0]	P6	L-1/L-1	<100%	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Continue to monitor.
300331 CV_TS_11 500 30041 TESLA E 500 1 1	OLINDA-TRACY 500KV [0] & TABLE MT-TESLA 500KV [6080]	P6	L-1/L-1	<100%	<100%	<100%	125%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
300053 FR_TM_22 500 300060 FERNROADSS 500 2 1	CAPTJACK-OLINDA 500KV [0] & ROUND MT-FERNROADSS 500KV 1[0]	P6	L-1/L-1	<100%	<100%	<100%	113%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
30015 TABLE MTN 500 30067 TABLE MTN6M 500 6 1	TABLE MTN 500/230KV TB 5 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	<100%	<100%	108%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	Path flow adjustment or transmission solution.
30303 TABLE MTN E 230 30067 TABLE MTN6M 500 6 1	TABLE MTN 500/230KV TB 5 & TABLE MT-VACA 500KV [6090]	P6	L-1/L-1	<100%	<100%	<100%	104%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	
30970 MIDWAY-E 230 30975 MIDWAY-R11 230 1 1	MIDWAY 500/230KV TB 12 & MIDWAY 500/230KV TB 13	P6	L-1/L-1	<100%	<100%	<100%	<100%	121%	<100%	<100%	<100%	108%	<100%	106%	<100%	Interim operating solution.
	MIDWAY 500/230KV TB 12 & MALIN-ROUND MT 500KV 1[0]	P6	L-1/L-1	<100%	<100%	<100%	<100%	<100%	<100%	<100%	<100%	123%	<100%	<100%	<100%	
	MIDWAY 500/230KV TB 13 & MIDWAY 500/230KV TB 12	P6	L-1/L-1	<100%	<100%	<100%	<100%	120%	<100%	<100%	<100%	107%	<100%	107%	<100%	

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)										Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
					2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2041 Summer Peak	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2036 Summer-Off Peak	2041 Greater Bay area Summer Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
None identified on the bulk system																		

Substation	Contingency	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)									Post Cont. Voltage Deviation % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2028 Summer Peak	2031 Summer Peak	2036 Summer Peak	2041 Summer Peak	2028 Winter Peak	2031 Winter Peak	2041 Winter Peak	2028 Spring Off-Peak	2036 Summer-Off Peak	2041 Greater Bay area Summer Peak	2028 SP Heavy Renewable & Min Gas Gen	2028 OP Sensitivity	2031 SP High CEC Forecast	
None identified on the bulk system																	

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2028 Spring Off-Peak	2028 Spring OP Sensitivity	
DIABLOCNYN2-1 25	p1_1-0	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p1_2-0	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p1_2-1	no issues	no issues	no issues
METCALF-MOSSLAND 500	p1_2-10	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500	p1_2-11	no issues	no issues	no issues
LOSBANOS-GATES 500	p1_2-12	no issues	no issues	no issues
LOSBANOS-GATES 500	p1_2-13	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p1_2-14	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500	p1_2-15	no issues	no issues	no issues
GATES-MIDWAY 500	p1_2-16	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p1_2-17	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p1_2-18	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_2-19	no issues	no issues	no issues
TABLEMTN-VACADIX 500	p1_2-2	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_2-20	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_2-21	no issues	no issues	no issues
TABLEMTN 500	p1_2-23	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
OLINDA-CAPTAIN_JACK 500	p1_2-24	no issues	no issues	no issues
DALLASES-MOSSLAND 500	p1_2-25	no issues	no issues	no issues
ROUNDMT-MALIN 500	p1_2-26	no issues	no issues	no issues
ROUNDMT-MALIN 500	p1_2-27	no issues	no issues	no issues
TABLEMTN-TESLA 500	p1_2-3	no issues	no issues	no issues
OLINDA-TRACY 500	p1_2-4	no issues	no issues	no issues
VACADIX-TESLA 500	p1_2-5	no issues	no issues	no issues
TRACY-TESLA 500	p1_2-6	no issues	no issues	no issues
TRACY-LOSBANOS 500	p1_2-7	no issues	no issues	no issues
TESLA-METCALF 500	p1_2-8	no issues	no issues	no issues
TESLA-LOSBANOS 500	p1_2-9	no issues	no issues	no issues
OLINDA500/230	p1_3-0	no issues	no issues	no issues
FAULT ONLY TRACY 500	p1_3-1	no issues	no issues	no issues
METCALF500/230	p1_3-10	no issues	no issues	no issues
METCALF500/230	p1_3-11	no issues	no issues	no issues
METCALF500/230	p1_3-12	no issues	no issues	no issues
MOSSLAND500/230	p1_3-13	no issues	no issues	no issues
FAULT ONLY LOSBANOS 500	p1_3-14	no issues	no issues	no issues
FAULT ONLY GATES 500	p1_3-15	no issues	no issues	no issues
FAULT ONLY GATES 500	p1_3-16	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_3-17	no issues	no issues	no issues
MIDWAY500/230	p1_3-18	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_3-19	no issues	no issues	no issues
FAULT ONLY TRACY 500	p1_3-2	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p1_3-3	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p1_3-4	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p1_3-5	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p1_3-6	no issues	no issues	no issues
FAULT ONLY TESLA 500	p1_3-7	no issues	no issues	no issues
FAULT ONLY TESLA 500	p1_3-8	no issues	no issues	no issues
FAULT ONLY TESLA 500	p1_3-9	no issues	no issues	no issues
MN_RM_23 500 shunt	p1_4-0	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
CJ_OL_13 500 shunt	p1_4-1	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TRACY 500	p1_4-10	no issues	no issues	no issues
FAULT ONLY METCALF 500	p1_4-11	no issues	no issues	no issues
MX_TR_11 500 shunt	p1_4-2	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TM_TS_11 500 shunt	p1_4-3	no issues	no issues	no issues

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2028 Spring Off-Peak	2028 Spring OP Sensitivity	
OL_MX_11 500 shunt	p1_4-4	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES 500 shunt	p1_4-6	no issues	no issues	no issues
MIDWAY 500 shunt	p1_4-7	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p1_4-8	no issues	no issues	no issues
FAULT ONLY OLINDA 500	p1_4-9	no issues	no issues	no issues
ROUNDMT-MALIN 500	p2_3-0	no issues	no issues	no issues
VACADIX-TESLA-LOSBANOS 500	p2_3-1	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-MIDWAY 500	p2_3-10	no issues	no issues	no issues
FAULT ONLY	p2_3-11	no issues	no issues	no issues
FAULT ONLY	p2_3-12	no issues	no issues	no issues
TESLA-METCALF 500	p2_3-2	no issues	no issues	no issues
TESLA-METCALF 500 & METCALF500/230	p2_3-3	no issues	no issues	no issues
METCALF-MOSSLAND 500 & METCALF500/230	p2_3-4	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500 & MOSSLAND500/230	p2_3-5	no issues	no issues	no issues
TRACY-LOSBANOS-GATES 500	p2_3-6	no issues	no issues	no issues
TESLA-LOSBANOS-GATES 500	p2_3-7	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p2_3-8	no issues	no issues	no issues
LOSBANOS-GATES-MIDWAY 500	p2_3-9	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_2-0	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_2-1	no issues	no issues	no issues
METCALF-MOSSLAND 500 & DIABLOCNYN2-1 25	p3_2-10	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-11	no issues	no issues	no issues
LOSBANOS-GATES 500 & DIABLOCNYN2-1 25	p3_2-12	no issues	no issues	no issues
LOSBANOS-GATES 500 & DIABLOCNYN2-1 25	p3_2-13	no issues	no issues	no issues
LOSBANOS-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-14	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500 & DIABLOCNYN2-1 25	p3_2-15	no issues	no issues	no issues
GATES-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-16	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-17	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-18	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_2-19	no issues	no issues	no issues
TABLEMTN-VACADIX 500 & DIABLOCNYN2-1 25	p3_2-2	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_2-20	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_2-21	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_2-22	no issues	no issues	no issues
TABLEMTN 500 & DIABLOCNYN2-1 25	p3_2-23	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
OLINDA-CAPTAIN_JACK 500 & DIABLOCNYN2-1 25	p3_2-24	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
DALLASES-MOSSLAND 500 & DIABLOCNYN2-1 25	p3_2-25	no issues	no issues	no issues
ROUNDMT-MALIN 500 & DIABLOCNYN2-1 25	p3_2-26	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500 & DIABLOCNYN2-1 25	p3_2-27	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TABLEMTN-TESLA 500 & DIABLOCNYN2-1 25	p3_2-3	no issues	no issues	no issues
OLINDA-TRACY 500 & DIABLOCNYN2-1 25	p3_2-4	no issues	no issues	no issues
VACADIX-TESLA 500 & DIABLOCNYN2-1 25	p3_2-5	no issues	no issues	no issues
TRACY-TESLA 500 & DIABLOCNYN2-1 25	p3_2-6	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2028 Spring Off-Peak	2028 Spring OP Sensitivity	
TRACY-LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-7	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-METCALF 500 & DIABLOCNYN2-1 25	p3_2-8	no issues	no issues	no issues
TESLA-LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-9	no issues	no issues	no issues
OLINDA500/230 & DIABLOCNYN2-1 25	p3_3-0	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-1	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF500/230 & DIABLOCNYN2-1 25	p3_3-10	no issues	no issues	no issues
METCALF500/230 & DIABLOCNYN2-1 25	p3_3-11	no issues	no issues	no issues
METCALF500/230 & DIABLOCNYN2-1 25	p3_3-12	no issues	no issues	no issues
MOSSLAND500/230 & DIABLOCNYN2-1 25	p3_3-13	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-14	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-15	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-16	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-17	no issues	no issues	no issues
MIDWAY500/230 & DIABLOCNYN2-1 25	p3_3-18	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-19	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-2	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
DIABLOCNYN2-1 25	p3_3-20	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-21	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-3	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-4	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-5	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-6	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-7	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-8	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_3-9	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-0	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-1	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-2	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
DIABLOCNYN2-1 25	p3_4-3	no issues	no issues	no issues
MALIN-ROUNDMT 500	p6_1_1-0	no issues	no issues	no issues
ROUNDMT-MALIN 500	p6_1_1-1	no issues	no issues	no issues
TESLA-TABLEMTN 500	p6_1_1-10	no issues	no issues	no issues
TESLA-METCALF 500 & MOSSLAND-LOSBANOS 500	p6_1_1-100	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TABLEMTN 500	p6_1_1-11	no issues	no issues	no issues
TABLEMTN-TESLA-VACADIX 500	p6_1_1-12	no issues	no issues	no issues
TABLEMTN-TESLA-TRACY 500	p6_1_1-13	no issues	no issues	no issues
TABLEMTN-TESLA-METCALF 500	p6_1_1-14	no issues	no issues	no issues
TABLEMTN-TESLA-LOSBANOS 500	p6_1_1-15	no issues	no issues	no issues
VACADIX-TESLA-TRACY 500	p6_1_1-16	no issues	no issues	no issues
VACADIX-TESLA-METCALF 500	p6_1_1-17	no issues	no issues	no issues
VACADIX-TESLA-LOSBANOS 500	p6_1_1-18	no issues	no issues	no issues
TRACY-TESLA-METCALF 500	p6_1_1-19	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500	p6_1_1-2	no issues	no issues	no issues
TRACY-TESLA-LOSBANOS 500	p6_1_1-20	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-TESLA-LOSBANOS 500	p6_1_1-21	no issues	no issues	no issues
TABLEMTN-VACADIX-TESLA 500	p6_1_1-22	no issues	no issues	no issues
TESLA-METCALF-MOSSLAND 500	p6_1_1-23	no issues	no issues	no issues
METCALF-MOSSLAND-LOSBANOS 500	p6_1_1-24	no issues	no issues	no issues
METCALF-MOSSLAND-DALLASES 500	p6_1_1-25	no issues	no issues	no issues
LOSBANOS-MOSSLAND-DALLASES 500	p6_1_1-26	no issues	no issues	no issues

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2028 Spring Off-Peak	2028 Spring OP Sensitivity	
TRACY-LOSBANOS-TESLA 500	p6_1_1-27	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS-MOSSLAND 500	p6_1_1-28	no issues	no issues	no issues
TRACY-LOSBANOS-GATES 500	p6_1_1-29	no issues	no issues	no issues
ROUNDMT-MALIN 500	p6_1_1-3	no issues	no issues	no issues
TRACY-LOSBANOS-GATES 500	p6_1_1-30	no issues	no issues	no issues
TRACY-LOSBANOS-MIDWAY 500	p6_1_1-31	no issues	no issues	no issues
TESLA-LOSBANOS-MOSSLAND 500	p6_1_1-32	no issues	no issues	no issues
TESLA-LOSBANOS-GATES 500	p6_1_1-33	no issues	no issues	no issues
TESLA-LOSBANOS-GATES 500	p6_1_1-34	no issues	no issues	no issues
TESLA-LOSBANOS-MIDWAY 500	p6_1_1-35	no issues	no issues	no issues
MOSSLAND-LOSBANOS-GATES 500	p6_1_1-36	no issues	no issues	no issues
MOSSLAND-LOSBANOS-GATES 500	p6_1_1-37	no issues	no issues	no issues
MOSSLAND-LOSBANOS-MIDWAY 500	p6_1_1-38	no issues	no issues	no issues
LOSBANOS-GATES 500	p6_1_1-39	no issues	no issues	no issues
ROUNDMT-MALIN 500	p6_1_1-4	no issues	no issues	no issues
GATES-LOSBANOS-MIDWAY 500	p6_1_1-40	no issues	no issues	no issues
GATES-LOSBANOS & LOSBANOS-MIDWAY 500	p6_1_1-41	no issues	no issues	no issues
LOSBANOS-GATES 500	p6_1_1-42	no issues	no issues	no issues
LOSBANOS-GATES-DIABLOCNYNSS 500	p6_1_1-43	no issues	no issues	no issues
LOSBANOS-GATES-MIDWAY 500	p6_1_1-44	no issues	no issues	no issues
LOSBANOS-GATES-DIABLOCNYNSS 500	p6_1_1-45	no issues	no issues	no issues
LOSBANOS-GATES-MIDWAY 500	p6_1_1-46	no issues	no issues	no issues
DIABLOCNYNSS-GATES-MIDWAY 500	p6_1_1-47	no issues	no issues	no issues
LOSBANOS-MIDWAY & MIDWAY-GATES 500	p6_1_1-48	no issues	no issues	no issues
LOSBANOS-MIDWAY-DIABLOCNYNSS 500	p6_1_1-49	no issues	no issues	no issues
ROUNDMT-MALIN 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-5	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-MIDWAY-DIABLOCNYNSS 500	p6_1_1-50	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p6_1_1-51	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p6_1_1-52	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p6_1_1-53	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p6_1_1-54	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p6_1_1-55	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-56	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-57	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-58	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500 & DIABLOCNYN1-1 25	p6_1_1-59	no issues	no issues	no issues
VACADIX-TABLEMTN-TESLA 500	p6_1_1-6	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-60	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-61	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-62	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-63	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-64	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-65	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-66	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-67	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-68	no issues	no issues	no issues
GATES-DIABLOCNYNSS-MIDWAY 500 & DIABLOCNYN1-1 25	p6_1_1-69	no issues	no issues	no issues
TABLEMTN-VACADIX 500	p6_1_1-7	no issues	no issues	no issues
GATES-DIABLOCNYNSS-MIDWAY 500 & DIABLOCNYN1-1 25	p6_1_1-70	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500 & DIABLOCNYN1-1 25	p6_1_1-71	no issues	no issues	no issues
TRACY-OLINDA-CAPTAIN_JACK 500	p6_1_1-72	no issues	no issues	no issues
OLINDA-TRACY-TESLA 500	p6_1_1-73	no issues	no issues	no issues
OLINDA-TRACY-LOSBANOS 500	p6_1_1-74	no issues	no issues	no issues
TESLA-TRACY-LOSBANOS 500	p6_1_1-75	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2028 Spring Off-Peak	2028 Spring OP Sensitivity	
MALIN-ROUNDMT 500	p6_1_1-76	no issues	no issues	no issues
TABLEMTN 500	p6_1_1-78	no issues	no issues	no issues
VACADIX-TABLEMTN 500	p6_1_1-8	no issues	no issues	no issues
TABLEMTN 500	p6_1_1-80	no issues	no issues	no issues
TABLEMTN 500	p6_1_1-81	no issues	no issues	no issues
TABLEMTN-TESLA 500	p6_1_1-9	no issues	no issues	no issues
MALIN-ROUNDMT 500	p6_1_2-0	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p6_1_2-1	no issues	no issues	no issues
TRACY-TESLA 500	p6_1_2-10	no issues	no issues	no issues
TESLA-METCALF 500	p6_1_2-11	no issues	no issues	no issues
TESLA-LOSBANOS 500	p6_1_2-12	no issues	no issues	no issues
TABLEMTN-VACADIX 500	p6_1_2-13	no issues	no issues	no issues
VACADIX-TESLA 500	p6_1_2-14	no issues	no issues	no issues
TESLA-METCALF 500 & METCALF500/230	p6_1_2-15	no issues	no issues	no issues
METCALF-MOSSLAND 500 & METCALF500/230	p6_1_2-16	no issues	no issues	no issues
METCALF-MOSSLAND 500 & MOSSLAND500/230	p6_1_2-17	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS 500 & MOSSLAND500/230	p6_1_2-18	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
DALLASES-MOSSLAND 500 & MOSSLAND500/230	p6_1_2-19	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500	p6_1_2-2	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_2-20	no issues	no issues	no issues
TESLA-LOSBANOS 500	p6_1_2-21	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500	p6_1_2-22	no issues	no issues	no issues
LOSBANOS-GATES 500	p6_1_2-23	no issues	no issues	no issues
LOSBANOS-GATES 500	p6_1_2-24	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p6_1_2-25	no issues	no issues	no issues
LOSBANOS-GATES 500	p6_1_2-26	no issues	no issues	no issues
LOSBANOS-GATES 500	p6_1_2-27	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500	p6_1_2-28	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_2-29	no issues	no issues	no issues
ROUNDMT-MALIN 500	p6_1_2-3	no issues	no issues	no issues
LOSBANOS-MIDWAY 500	p6_1_2-30	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_2-31	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_2-32	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_2-33	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-34	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-35	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-36	no issues	no issues	no issues
OLINDA-TRACY 500 & OLINDA500/230	p6_1_2-37	no issues	no issues	no issues
OLINDA-CAPTAIN_JACK 500 & OLINDA500/230	p6_1_2-38	no issues	no issues	no issues
OLINDA-TRACY 500	p6_1_2-39	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TABLEMTN-VACADIX 500	p6_1_2-4	no issues	no issues	no issues
TRACY-TESLA 500	p6_1_2-40	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS 500	p6_1_2-41	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TABLEMTN 500	p6_1_2-45	no issues	no issues	no issues
TABLEMTN-TESLA 500	p6_1_2-5	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_1_2-6	no issues	no issues	no issues
TABLEMTN 500	p6_1_2-7	no issues	no issues	no issues
TABLEMTN-TESLA 500	p6_1_2-8	no issues	no issues	no issues
VACADIX-TESLA 500	p6_1_2-9	no issues	no issues	no issues
TABLEMTN-VACADIX 500	p6_1_3-0	no issues	no issues	no issues
TABLEMTN-TESLA 500	p6_1_3-1	no issues	no issues	no issues

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2028 Spring Off-Peak	2028 Spring OP Sensitivity	
TRACY-LOSBANOS 500	p6_1_3-10	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TABLE MTN 500	p6_1_3-2	no issues	no issues	no issues
TABLEMTN 500	p6_1_3-3	no issues	no issues	no issues
TESLA-METCALF 500	p6_1_3-4	no issues	no issues	no issues
METCALF-MOSSLAND 500	p6_1_3-5	no issues	no issues	no issues
OLINDA-TRACY 500	p6_1_3-6	no issues	no issues	no issues
OLINDA-CAPTAIN_JACK 500	p6_1_3-7	no issues	no issues	no issues
OLINDA-TRACY 500	p6_1_3-8	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-TESLA 500	p6_1_3-9	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TESLA 500	p6_2_2-0	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p6_2_2-1	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p6_2_2-10	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_2-11	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_2-12	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p6_2_2-13	no issues	no issues	no issues
OLINDA500/230	p6_2_2-14	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TRACY 500	p6_2_2-15	no issues	no issues	no issues
METCALF500/230	p6_2_2-16	no issues	no issues	no issues
FAULT ONLY TESLA 500	p6_2_2-17	no issues	no issues	no issues
FAULT ONLY TESLA 500	p6_2_2-18	no issues	no issues	no issues
METCALF500/230 & MOSSLAND500/230	p6_2_2-19	no issues	no issues	no issues
METCALF500/230 & METCALF500/230	p6_2_2-2	no issues	no issues	no issues
MOSSLAND500/230	p6_2_2-20	no issues	no issues	no issues
FAULT ONLY LOSBANOS 500	p6_2_2-21	no issues	no issues	no issues
FAULT ONLY LOSBANOS 500	p6_2_2-22	no issues	no issues	no issues
FAULT ONLY GATES 500	p6_2_2-24	no issues	no issues	no issues
FAULT ONLY GATES 500	p6_2_2-3	no issues	no issues	no issues
MIDWAY500/230	p6_2_2-4	no issues	no issues	no issues
FAULT ONLY TRACY 500	p6_2_2-5	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_3-0	no issues	no issues	no issues
METCALF500/230	p6_2_3-1	no issues	no issues	no issues
OLINDA500/230	p6_2_3-2	no issues	no issues	no issues
FAULT ONLY TRACY 500	p6_2_3-3	no issues	no issues	no issues
PDCI Pole 1 & 2	p7_2-0	no issues	no issues	no issues
PALOVRD1-1 24 & PALOVRD2-1 24	p_ext-0	no issues	no issues	no issues
MALIN FAULT WITH PACIRAS SYSTEM SEPARATION	p_ext-10	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY MIDWAY 500	p_ext-11	no issues	no issues	no issues
TABLEMTN-VACADIX 500 & CORTINA-VACADIX-DELEVAN 230 & VACADXN-WINTERS 60	p_ext-12	no issues	no issues	no issues
VACADIX-TESLA 500 & LAMBIESWSTA-BDLSWSTA-PEABODY 230 & SHILOH3-SHILOH4 230	p_ext-13	no issues	no issues	no issues
GATES-LOSBANOS & LOSBANOS-MIDWAY 500	p_ext-14	no issues	no issues	no issues
GATES-MIDWAY-LOSBANOS 500	p_ext-15	no issues	no issues	no issues

2026-2027 ISO Reliability Assessment - Study Results 0
Study Area: **PG&E Bulk**
Transient Stability

Contingency	Category	Transient Stability Performance		Potential Mitigation Solutions
		Baseline Scenarios	Sensitivity Scenarios	
		2031 Summer Peak	2031 SP High CEC Forecast	
FAULT ONLY ROUND MT 500	p1_2-0	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p1_2-1	no issues	no issues	no issues
METCALF-MOSSLAND 500	p1_2-10	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500	p1_2-11	no issues	no issues	no issues
LOSBANOS-GATES 500	p1_2-12	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY LOSBANOS 500	p1_2-13	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY LOSBANOS 500	p1_2-14	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES-DIABLOCNYNSS 500	p1_2-15	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES-MIDWAY 500	p1_2-16	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p1_2-17	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p1_2-18	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_2-19	no issues	no issues	no issues
VACADIX-TABLEMTN 500	p1_2-2	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_2-20	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_2-21	no issues	no issues	no issues
CAPTAIN_JACK-OLINDA 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p1_2-22	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MALIN-ROUNDMT 500	p1_2-23	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500	p1_2-24	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
DALLASES-MOSSLAND 500	p1_2-27	no issues	no issues	no issues
TESLA-TABLEMTN 500	p1_2-3	no issues	no issues	no issues
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p1_2-4	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p1_2-5	no issues	no issues	no issues
TRACY-TESLA 500	p1_2-6	no issues	no issues	no issues
TRACY-LOSBANOS 500	p1_2-7	no issues	no issues	no issues
TESLA-METCALF 500	p1_2-8	no issues	no issues	no issues
TESLA-LOSBANOS 500	p1_2-9	no issues	no issues	no issues
OLINDA500/230	p1_3-0	no issues	no issues	no issues
FAULT ONLY TRACY 500	p1_3-1	no issues	no issues	no issues
FAULT ONLY TESLA 500	p1_3-10	no issues	no issues	no issues
FAULT ONLY TESLA 500	p1_3-11	no issues	no issues	no issues
FAULT ONLY TESLA 500	p1_3-12	no issues	no issues	no issues
METCALF500/230	p1_3-13	no issues	no issues	no issues
METCALF500/230	p1_3-14	no issues	no issues	no issues
METCALF500/230	p1_3-15	no issues	no issues	no issues
MOSSLAND500/230	p1_3-16	no issues	no issues	no issues
FAULT ONLY LOSBANOS 500	p1_3-17	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY GATES 500	p1_3-18	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY GATES 500	p1_3-19	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TRACY 500	p1_3-2	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_3-20	no issues	no issues	no issues
MIDWAY500/230	p1_3-21	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p1_3-22	no issues	no issues	no issues
FAULT ONLY GATES 500	p1_3-3	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY GATES 500	p1_3-4	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY ROUND MT 500	p1_3-5	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p1_3-6	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p1_3-7	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p1_3-8	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p1_3-9	no issues	no issues	no issues
MX_TR_11 500 shunt	p1_4-0	TBD	TBD	Under review
TM_TS_11 500 shunt	p1_4-1	no issues	no issues	no issues
FAULT ONLY METCALF 500	p1_4-10	no issues	no issues	no issues

OL_MX_11 500 shunt	p1_4-2	TBD	TBD	Under review
FAULT ONLY MIDWAY 500	p1_4-3	no issues	no issues	no issues
GATES 500 shunt	p1_4-4	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MIDWAY 500 shunt	p1_4-5	no issues	no issues	no issues
CJ_OL_13 500 shunt	p1_4-6	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TABLE MTN 500	p1_4-7	no issues	no issues	no issues
FAULT ONLY OLINDA 500	p1_4-8	no issues	no issues	no issues
FAULT ONLY TRACY 500	p1_4-9	no issues	no issues	no issues
ROUNDMT-MALIN 500	p2_3-0	no issues	no issues	no issues
TESLA-LOSBANOS 500	p2_3-1	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY	p2_3-10	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY	p2_3-11	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY	p2_3-12	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-METCALF 500	p2_3-2	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-METCALF 500 & METCALF500/230	p2_3-3	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND 500 & METCALF500/230	p2_3-4	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS 500 & MOSSLAND500/230	p2_3-5	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS 500	p2_3-6	no issues	no issues	no issues
TESLA-LOSBANOS-GATES 500	p2_3-7	no issues	no issues	no issues
FAULT ONLY	p2_3-8	no issues	no issues	no issues
GATES-MIDWAY 500	p2_3-9	no issues	no issues	no issues
MALIN-ROUNDMT 500 & COI PACIRAS CHIEF-JOE/MCNARY GEN SHEDDING	p6_1_1-0	no issues	no issues	no issues
MALIN-ROUNDMT 500	p6_1_1-1	no issues	no issues	no issues
TESLA-TABLEMTN 500	p6_1_1-10	no issues	no issues	no issues
TESLA-METCALF 500 & MOSSLAND-LOSBANOS 500	p6_1_1-100	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TBL MTN FAULT with PACIRAS CHIEF-JOE/MCNARY GEN SHEDDING	p6_1_1-11	no issues	no issues	no issues
TESLA-TABLEMTN 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-12	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-TESLA-TABLEMTN 500	p6_1_1-13	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-TESLA-TABLEMTN 500	p6_1_1-14	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-TESLA-TABLEMTN 500	p6_1_1-15	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-TESLA 500	p6_1_1-16	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-METCALF 500	p6_1_1-17	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-LOSBANOS 500	p6_1_1-18	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-TESLA-METCALF 500	p6_1_1-19	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500	p6_1_1-2	no issues	no issues	no issues
TRACY-TESLA-LOSBANOS 500	p6_1_1-20	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.

METCALF-TESLA-LOSBANOS 500	p6_1_1-21	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
VACADIX-TABLEMTN 500	p6_1_1-22	no issues	no issues	no issues
TESLA-METCALF-MOSSLAND 500	p6_1_1-23	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND-LOSBANOS 500	p6_1_1-24	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND-DALLASES 500	p6_1_1-25	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-MOSSLAND-DALLASES 500	p6_1_1-26	no issues	no issues	no issues
TRACY-LOSBANOS-TESLA 500	p6_1_1-27	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS-MOSSLAND 500	p6_1_1-28	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS-GATES 500	p6_1_1-29	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MALIN-ROUNDMT 500	p6_1_1-3	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_1-30	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS 500	p6_1_1-31	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-LOSBANOS-MOSSLAND 500	p6_1_1-32	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-LOSBANOS-GATES 500	p6_1_1-33	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-LOSBANOS 500	p6_1_1-34	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-LOSBANOS 500	p6_1_1-35	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS-GATES 500	p6_1_1-36	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS 500	p6_1_1-37	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS 500	p6_1_1-38	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-GATES 500	p6_1_1-39	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-4	no issues	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-GATES 500	p6_1_1-40	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
OL_MX_12-MAXWELL 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-41	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-GATES 500	p6_1_1-42	no issues	no issues	no issues
LOSBANOS-GATES-DIABLOCNYNSS 500	p6_1_1-43	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-GATES-MIDWAY 500	p6_1_1-44	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500	p6_1_1-45	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES-MIDWAY 500	p6_1_1-46	no issues	no issues	no issues
DIABLOCNYNSS-GATES-MIDWAY 500	p6_1_1-47	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-48	no issues	no issues	no issues

DIABLOCNYNSS-MIDWAY 500	p6_1_1-49	no issues	no issues	no issues
ROUNDMT-MALIN 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-5	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-50	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-51	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-52	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-53	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p6_1_1-54	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p6_1_1-55	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-56	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-57	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_1-58	no issues	no issues	no issues
MIDWAY-DIABLOCNYNSS 500	p6_1_1-59	no issues	no issues	no issues
VACADIX-TABLEMTN-TESLA 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-6	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-60	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-61	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-62	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-63	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-64	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_1-65	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-66	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-67	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_1-68	no issues	no issues	no issues
GATES-DIABLOCNYNSS-MIDWAY 500	p6_1_1-69	no issues	no issues	no issues
VACADIX-TABLEMTN 500	p6_1_1-7	no issues	no issues	no issues
GATES-DIABLOCNYNSS-MIDWAY 500	p6_1_1-70	no issues	no issues	no issues
MIDWAY-DIABLOCNYNSS 500	p6_1_1-71	no issues	no issues	no issues
TRACY-OLINDA-CAPTAIN_JACK 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_1-72	no issues	no issues	no issues
OLINDA-TRACY-TESLA 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_1-73	no issues	no issues	no issues
OLINDA-TRACY-LOSBANOS 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_1-74	no issues	no issues	no issues
TESLA-TRACY-LOSBANOS 500	p6_1_1-75	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MALIN-ROUNDMT 500 WITH PACIRAS NW GEN SHEDDING	p6_1_1-76	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
VACADIX-TABLEMTN 500	p6_1_1-8	Potential WECC/NERC criteria violation	no issues	Generator trip; PRC-026 notification may be issued
NO FAULT WITH PACIRAS NW GEN SHEDDING	p6_1_1-81	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-TABLEMTN 500	p6_1_1-9	Potential WECC/NERC criteria violation	no issues	Generator trip; PRC-026 notification may be issued
MALIN-ROUNDMT 500	p6_1_2-0	Potential WECC/NERC criteria violation	no issues	Generator trip; PRC-026 notification may be issued
FAULT ONLY ROUND MT 500	p6_1_2-1	Potential WECC/NERC criteria violation	no issues	Generator trip; PRC-026 notification may be issued
TRACY-TESLA 500	p6_1_2-10	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-METCALF 500	p6_1_2-11	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLA-LOSBANOS 500	p6_1_2-12	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
VACADIX-TABLEMTN 500	p6_1_2-13	Potential WECC/NERC criteria violation	no issues	Generator trip; PRC-026 notification may be issued
FAULT ONLY VACA-DIX 500	p6_1_2-14	Potential WECC/NERC criteria violation	no issues	Generator trip; PRC-026 notification may be issued
TESLA-METCALF 500 & METCALF500/230	p6_1_2-15	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND 500 & METCALF500/230	p6_1_2-16	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND 500 & MOSSLAND500/230	p6_1_2-17	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS 500 & MOSSLAND500/230	p6_1_2-18	no issues	no issues	no issues
DALLASES-MOSSLAND 500 & MOSSLAND500/230	p6_1_2-19	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MALIN-ROUNDMT 500	p6_1_2-2	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_2-20	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Generator trip; PRC-026 notification may be issued
TESLA-LOSBANOS 500	p6_1_2-21	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MOSSLAND-LOSBANOS 500	p6_1_2-22	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.

LOSBANOS-GATES 500	p6_1_2-23	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY LOSBANOS 500	p6_1_2-24	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY LOSBANOS 500	p6_1_2-25	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
LOSBANOS-GATES 500	p6_1_2-26	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY GATES 500	p6_1_2-27	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES-DIABLOCNYNSS 500	p6_1_2-28	Oscillations in adjacent 500kV	no issues	Oscillations in 2031SP are not a TPL-001 violation
GATES-MIDWAY 500	p6_1_2-29	no issues	no issues	no issues
ROUNDMT-MALIN 500	p6_1_2-3	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-30	no issues	no issues	no issues
GATES-MIDWAY 500	p6_1_2-31	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_2-32	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p6_1_2-33	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-34	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-35	no issues	no issues	no issues
FAULT ONLY MIDWAY 500	p6_1_2-36	no issues	no issues	no issues
OLINDA-TRACY 500 & OLINDA500/230 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_2-37	no issues	no issues	no issues
CAPTAIN_JACK-OLINDA 500 & OLINDA500/230 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_2-38	no issues	no issues	no issues
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_2-39	no issues	no issues	no issues
VACADIX-TABLEMTN 500	p6_1_2-4	no issues	no issues	no issues
TRACY-TESLA 500	p6_1_2-40	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_2-41	no issues	no issues	no issues
TESLA-TABLEMTN 500	p6_1_2-5	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_1_2-6	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_1_2-7	no issues	no issues	no issues
TESLA-TABLEMTN 500	p6_1_2-8	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TESLA 500	p6_1_2-9	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
VACADIX-TABLEMTN 500	p6_1_3-0	no issues	no issues	no issues
TESLA-TABLEMTN 500	p6_1_3-1	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_3-10	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_1_3-2	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_1_3-3	no issues	no issues	no issues
TESLA-METCALF 500	p6_1_3-4	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND 500	p6_1_3-5	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_3-6	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
CAPTAIN_JACK-OLINDA 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_3-7	no issues	no issues	no issues
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_3-8	no issues	no issues	no issues
TRACY-TESLA 500	p6_1_3-9	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_2-0	no issues	Potential WECC/NERC criteria violation	Under review
FAULT ONLY TESLA 500	p6_2_2-1	no issues	no issues	no issues
FAULT ONLY ROUND MT 500	p6_2_2-10	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_2-11	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_2-12	no issues	no issues	no issues
FAULT ONLY VACA-DIX 500	p6_2_2-13	no issues	no issues	no issues
OLINDA500/230	p6_2_2-14	no issues	no issues	no issues
FAULT ONLY TRACY 500	p6_2_2-15	no issues	no issues	no issues
METCALF500/230	p6_2_2-16	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TESLA 500	p6_2_2-17	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY TESLA 500	p6_2_2-18	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF500/230 & MOSSLAND500/230	p6_2_2-19	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY VACA-DIX 500	p6_2_2-2	no issues	no issues	no issues

MOSSLAND500/230	p6_2_2-20	no issues	no issues	no issues
FAULT ONLY LOSBANOS 500	p6_2_2-21	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY LOSBANOS 500	p6_2_2-22	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY GATES 500	p6_2_2-24	Potential WECC/NERC criteria violation	no issues	Oscillations
METCALF500/230 & METCALF500/230	p6_2_2-3	no issues	Potential WECC/NERC criteria violation	Under review
FAULT ONLY GATES 500	p6_2_2-4	Potential WECC/NERC criteria violation	no issues	Oscillations
MIDWAY500/230	p6_2_2-5	no issues	no issues	no issues
FAULT ONLY TRACY 500	p6_2_2-6	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p6_2_3-0	no issues	no issues	no issues
METCALF500/230	p6_2_3-1	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
OLINDA500/230	p6_2_3-2	no issues	no issues	no issues
FAULT ONLY TRACY 500	p6_2_3-3	no issues	no issues	no issues
BIG_EDDY 500 & SYLMAR1-SYLMAR220 230 & SYLMAR2-SYLMAR 230 WITH PACIRAS NW GEN SHEDDING	p7_2-0	Potential WECC/NERC criteria violation	no issues	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
PALOVRD1-1 24 & PALOVRD2-1 24	p_ext-0	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MALIN FAULT WITH PACIRAS SYSTEM SEPARATION	p_ext-10	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Oscillations
FAULT ONLY MIDWAY 500	p_ext-11	no issues	no issues	no issues
VACADIX-TABLEMTN 500 & CORTINA-VACADIX-DELEVAN 230 & VACADXN-WINTERS 60	p_ext-12	no issues	no issues	no issues
LAMBIESWSTA-BDLSWSTA-PEABODY 230 & SHILOH3-SHILOH4 230	p_ext-13	no issues	TBD	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
OL_MX_12-MAXWELL 500 RNDMTN-TBLMTN SC BYPASS	p_ext-14	Potential WECC/NERC criteria violation	TBD	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES-MIDWAY 500 & GATESF-MIDWAYF 230 & ARCO-MIDWAYE 230	p_ext-15	no issues	TBD	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY	p_ext-2	no issues	TBD	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
FAULT ONLY	p_ext-3	no issues	TBD	Under review with PTO for operational mitigation, fault clearing time and fault impedances.

Contingency	Category	Baseline Scenarios		Potential Mitigation Solutions
		2036 Summer Peak	2036 Summer-Off Peak	
DIABLOCNYN2-1 25	p1 1-0	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500	p1_2-1	no issues	no issues	no issues
TESLAD-LOSBANOS 500	p1_2-10	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TESLAD-TESLAE 500	p1_2-11	no issues	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
METCALF-MOSSLAND 500	p1_2-12	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500	p1_2-13	no issues	no issues	no issues
LOSBANOS-MANNING 500	p1_2-14	no issues	no issues	no issues
LOSBANOS-MANNING 500	p1_2-15	no issues	no issues	no issues
LOSBANOS-GATES 500	p1 2-16	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500	p1_2-17	no issues	no issues	no issues
GATES-MIDWAY 500	p1_2-18	no issues	no issues	no issues
GATES-ORCHARDSTCM1 500	p1_2-19	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500	p1_2-2	no issues	no issues	no issues
GATES-ORCHARDSTCM2 500	p1 2-20	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p1_2-21	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500	p1_2-22	no issues	no issues	no issues
MIDWAY-VINCENT #1 500	p1_2-23	no issues	no issues	no issues
MIDWAY-VINCENT #2 500	p1_2-24	no issues	no issues	no issues
MIDWAY-WIRLWIND 500	p1 2-25	no issues	no issues	no issues
FERNROADSS-TABLEMTN #1 500	p1_2-27	no issues	no issues	no issues
FERNROADSS-TABLEMTN #2 500	p1_2-28	no issues	no issues	no issues
TESLAD-TABLEMTN 500	p1_2-29	no issues	no issues	no issues
VACADIX-TABLEMTN 500	p1_2-3	no issues	no issues	no issues
GATES-MANNING 500	p1 2-30	no solution	no solution	no 3ph solution; 1ph no issues
DALLASES-MOSSLAND 500	p1_2-31	no issues	no issues	no issues
MALIN-ROUNDMT #1 500	p1_2-32	no solution	no solution	no 3ph solution; 1ph no issues
ROUNDMT-MALIN #2 500	p1_2-33	no solution	no solution	no 3ph solution; 1ph no issues
HARLANSWSTA-MIDWAY #2 500	p1_2-34	no solution	no issues	no issues
HARLANSWSTA-Q1949 500	p1 2-35	no solution	no issues	no issues
HARLANSWSTA-MANNING 500	p1_2-36	no solution	no solution	no 3ph solution; 1ph no issues
Q1596-MIDWAY 500	p1_2-37	no issues	no issues	no issues
GROVE-METCALF 500	p1_2-38	no issues	no issues	no issues
HUMBOLDTOSW-COLLINSVILLE 500	p1_2-39	no issues	no issues	no issues
TABLEMTN-TESLAD 500	p1_2-4	no issues	no issues	no issues
COLLINSVILLE-VACADIX 500	p1_2-40	no issues	no issues	no issues
FERNROADSS-ROUNDMT #1 500	p1_2-41	no issues	no issues	no issues
LOSBANOS-GATES #3 500 No Fault Open	p1 2-42	no issues	no issues	no issues
MANNING-GATES 500	p1_2-43	no issues	no issues	no issues
METCALF-TESLAD 500 Mid-Span Fault	p1_2-44	no issues	no issues	no issues
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p1_2-5	no issues	no issues	no issues
VACADIX-COLLINSVILLE-TESLAE 500	p1_2-6	no issues	no issues	no issues
TRACY-TESLAD 500	p1 2-7	no issues	no issues	no issues
TRACY-LOSBANOS 500	p1_2-8	no issues	no issues	no issues
TESLAD-METCALF 500	p1_2-9	no issues	no issues	no issues
OLINDA 500/230-1	p1_3-0	no issues	no issues	no issues
TRACY 500/230-1	p1_3-1	no issues	no issues	no issues
METCALF 500/230-11	p1 3-10	no issues	no issues	no issues
METCALF 500/230-12	p1_3-11	no issues	no issues	no issues
METCALF 500/230-13	p1_3-12	no issues	no issues	no issues
MOSSLAND 500/230-9	p1_3-13	no issues	no issues	no issues
LOSBANOS 500/230-1	p1_3-14	no issues	no issues	no issues
GATES 500/230-12	p1 3-15	no issues	no issues	no issues
MIDWAY 500/230-11	p1_3-16	no issues	no issues	no issues
MIDWAY 500/230-12	p1_3-17	no issues	no issues	no issues
MIDWAY 500/230-13	p1_3-18	no issues	no issues	no issues
FERNROADSS 500/61-1	p1_3-19	no issues	no issues	no issues
TRACY 500/230-2	p1 3-2	no issues	no issues	no issues
FERNROADSS 500/61-2	p1_3-20	no issues	no issues	no issues
GATES 500/230-11	p1_3-21	no issues	no issues	no issues
MANNING 500/230-1	p1_3-22	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MANNING 500/230-2	p1_3-23	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
COLLINSVILLE 500/230-1	p1_3-24	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
COLLINSVILLE 500/230-2	p1_3-25	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TABLE MTN 500/230-6	p1_3-26	no issues	no issues	no issues
METCALF 500/230-14	p1_3-27	no issues	no issues	no issues
HUMBOLDTOSW 500/115-1	p1_3-28	no issues	no issues	no issues
ROUND MT 500/230-1	p1_3-3	no issues	no issues	no issues
TABLE MTN 500/230-5	p1 3-4	no issues	no issues	no issues
VACA-DIX 500/230-11	p1_3-5	no issues	no issues	no issues
VACA-DIX 500/230-12	p1_3-6	no issues	no issues	no issues
TESLA D 500/230-2	p1_3-7	no issues	no issues	no issues
TESLA D 500/230-4	p1_3-8	no issues	no issues	no issues
TESLA D 500/230-6	p1 3-9	no issues	no issues	no issues
TM_TS_11 500 shunt	p1_4-0	no issues	no issues	no issues
MIDWAY 500 shunt	p1_4-1	no issues	no issues	no issues
FAULT ONLY OLINDA 500	p1_4-10	no issues	no issues	no issues
FAULT ONLY TRACY 500	p1_4-11	no issues	no issues	no issues
FAULT ONLY METCALF 500	p1 4-12	no issues	no issues	no issues
MN_RM_23 500 shunt Mid-Span Fault	p1_4-2	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
CJ_OL_13 500 shunt Mid-Span Fault	p1_4-3	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
MX_TR_11 500 shunt	p1 4-4	no issues	no issues	no issues
OL_MX_11 500 shunt Mid-Span Fault	p1_4-5	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
GATES 500 shunt	p1_4-6	no issues	no issues	no issues
MIDWAY 500 shunt	p1_4-7	no issues	no issues	no issues
FAULT ONLY CCLCSWTST 500 Mid-Span Fault	p1 4-8	no issues	no issues	no issues
FAULT ONLY TABLE MTN 500	p1_4-9	no issues	no issues	no issues
ROUNDMT-MALIN 500 & ROUND MT 500/230-1	p2_3-0	no issues	no issues	no issues
VACADIX-TABLEMTN 500 & VACA-DIX 500/230-11	p2_3-1	no issues	no issues	no issues
METCALF-MOSSLAND 500 & METCALF 500/230-11	p2_3-2	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500 & MOSSLAND 500/230-9	p2_3-3	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p2_3-4	no issues	no issues	no issues
MIDWAY-VINCENT 500 & MIDWAY 500/230-11	p2_3-5	no issues	no issues	no issues
MIDWAY-WIRLWIND 500 & MIDWAY 500/230-11	p2_3-6	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & DIABLOCNYN2-1 25	p3_2-1	no issues	no issues	no issues
TESLAD-LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-10	no issues	no issues	no issues
TESLAD-TESLAE 500 & DIABLOCNYN2-1 25	p3_2-11	no issues	no issues	no issues
METCALF-MOSSLAND 500 & DIABLOCNYN2-1 25	p3_2-12	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-13	no issues	no issues	no issues
LOSBANOS-MANNING #1 500 & DIABLOCNYN2-1 25	p3_2-14	no issues	no issues	no issues
LOSBANOS-MANNING #2 500 & DIABLOCNYN2-1 25	p3_2-15	no issues	no issues	no issues
LOSBANOS-GATES #3 500 & DIABLOCNYN2-1 25	p3_2-16	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500 & DIABLOCNYN2-1 25	p3_2-17	no issues	no issues	no issues
GATES-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-18	no issues	no issues	no issues
GATES-ORCHARDSTCM1 500 & DIABLOCNYN2-1 25	p3_2-19	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & DIABLOCNYN2-1 25	p3_2-2	no issues	no issues	no issues
GATES-ORCHARDSTCM2 500 & DIABLOCNYN2-1 25	p3_2-20	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY #2 500 & DIABLOCNYN2-1 25	p3_2-21	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY #3 500 & DIABLOCNYN2-1 25	p3_2-22	no issues	no issues	no issues

MIDWAY-VINCENT 500 & DIABLOCNYN2-1 25	p3_2-23	no issues	no issues	no issues
MIDWAY-VINCENT 500 & DIABLOCNYN2-1 25	p3_2-24	no issues	no issues	no issues
MIDWAY-WIRLWIND 500 & DIABLOCNYN2-1 25	p3_2-25	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500 & DIABLOCNYN2-1 25	p3_2-27	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500 & DIABLOCNYN2-1 25	p3_2-28	no issues	no issues	no issues
TESLAD 500 & DIABLOCNYN2-1 25	p3_2-29	no issues	no issues	no issues
VACADIX-TABLEMTN 500 & DIABLOCNYN2-1 25	p3_2-3	no issues	no issues	no issues
GATES-MANNING 500 & DIABLOCNYN2-1 25	p3_2-30	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
DALLASES-MOSSLAND 500 & DIABLOCNYN2-1 25	p3_2-31	no issues	no issues	no issues
MALIN-ROUNDMT 500 & DIABLOCNYN2-1 25	p3_2-32	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
ROUNDMT-MALIN 500 & DIABLOCNYN2-1 25	p3_2-33	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
HARLANSWSTA-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-34	no issues	no issues	no issues
HARLANSWSTA-Q1949 500 & DIABLOCNYN2-1 25	p3_2-35	no issues	no issues	no issues
HARLANSWSTA-MANNING 500 & DIABLOCNYN2-1 25	p3_2-36	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
Q1596-MIDWAY 500 & DIABLOCNYN2-1 25	p3_2-37	no issues	no issues	no issues
GROVE-METCALF 500 & DIABLOCNYN2-1 25	p3_2-38	no issues	no issues	no issues
HUMBOLDTOSW 500 & DIABLOCNYN2-1 25	p3_2-39	no issues	no issues	no issues
TABLEMTN 500 & DIABLOCNYN2-1 25	p3_2-4	no issues	no issues	no issues
COLLINSVILLE-VACADIX 500 & DIABLOCNYN2-1 25	p3_2-40	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & DIABLOCNYN2-1 25	p3_2-41	no issues	no issues	no issues
LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-42	no issues	no issues	no issues
MANNING-GATES 500 & DIABLOCNYN2-1 25	p3_2-43	no issues	no issues	no issues
METCALF-TESLAD 500 & DIABLOCNYN2-1 25	p3_2-44	no issues	no issues	no issues
OLINDA-TRACY 500 & DIABLOCNYN2-1 25 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p3_2-5	no issues	no issues	no issues
VACADIX-COLLINSVILLE-TESLAE 500 & DIABLOCNYN2-1 25	p3_2-6	no issues	no issues	no issues
TRACY-TESLAD 500 & DIABLOCNYN2-1 25	p3_2-7	no issues	no issues	no issues
TRACY-LOSBANOS 500 & DIABLOCNYN2-1 25	p3_2-8	no issues	no issues	no issues
TESLAD-METCALF 500 & DIABLOCNYN2-1 25	p3_2-9	no issues	no issues	no issues
OLINDA 500/230-1 & DIABLOCNYN2-1 25	p3_3-0	no issues	no issues	no issues
TRACY 500/230-1 & DIABLOCNYN2-1 25	p3_3-1	no issues	no issues	no issues
METCALF 500/230-11 & DIABLOCNYN2-1 25	p3_3-10	no issues	no issues	no issues
METCALF 500/230-12 & DIABLOCNYN2-1 25	p3_3-11	no issues	no issues	no issues
METCALF 500/230-13 & DIABLOCNYN2-1 25	p3_3-12	no issues	no issues	no issues
MOSSLAND 500/230-9 & DIABLOCNYN2-1 25	p3_3-13	no issues	no issues	no issues
LOSBANOS 500/230-1 & DIABLOCNYN2-1 25	p3_3-14	no issues	no issues	no issues
GATES 500/230-12 & DIABLOCNYN2-1 25	p3_3-15	no issues	no issues	no issues
MIDWAY 500/230-11 & DIABLOCNYN2-1 25	p3_3-16	no issues	no issues	no issues
MIDWAY 500/230-12 & DIABLOCNYN2-1 25	p3_3-17	no issues	no issues	no issues
MIDWAY 500/230-13 & DIABLOCNYN2-1 25	p3_3-18	no issues	no issues	no issues
FERNROADSS 500/61-1 & DIABLOCNYN2-1 25	p3_3-19	no issues	no issues	no issues
TRACY 500/230-2 & DIABLOCNYN2-1 25	p3_3-2	no issues	no issues	no issues
FERNROADSS 500/61-2 & DIABLOCNYN2-1 25	p3_3-20	no issues	no issues	no issues
GATES 500/230-11 & DIABLOCNYN2-1 25	p3_3-21	no issues	no issues	no issues
MANNING 500/230-1 & DIABLOCNYN2-1 25	p3_3-22	no issues	no issues	no issues
MANNING 500/230-2 & DIABLOCNYN2-1 25	p3_3-23	no issues	no issues	no issues
COLLINSVILLE 500/230-1 & DIABLOCNYN2-1 25	p3_3-24	no issues	no issues	no issues
COLLINSVILLE 500/230-2 & DIABLOCNYN2-1 25	p3_3-25	no issues	no issues	no issues
TABLE MTN 500/230-6 & DIABLOCNYN2-1 25	p3_3-26	no issues	no issues	no issues
METCALF 500/230-14 & DIABLOCNYN2-1 25	p3_3-27	no issues	no issues	no issues
HUMBOLDTOSW 500/115-1 & DIABLOCNYN2-1 25	p3_3-28	no issues	no issues	no issues
ROUND MT 500/230-1 & DIABLOCNYN2-1 25	p3_3-3	no issues	no issues	no issues
TABLE MTN 500/230-5 & DIABLOCNYN2-1 25	p3_3-4	no issues	no issues	no issues
VACA-DIX 500/230-11 & DIABLOCNYN2-1 25	p3_3-5	no issues	no issues	no issues
VACA-DIX 500/230-12 & DIABLOCNYN2-1 25	p3_3-6	no issues	no issues	no issues
TESLA D 500/230-2 & DIABLOCNYN2-1 25	p3_3-7	no issues	no issues	no issues
TESLA D 500/230-4 & DIABLOCNYN2-1 25	p3_3-8	no issues	no issues	no issues
TESLA D 500/230-6 & DIABLOCNYN2-1 25	p3_3-9	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-0	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-1	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-2	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-3	no issues	no issues	no issues
DIABLOCNYN2-1 25	p3_4-4	no issues	no issues	no issues
MALIN-ROUNDMT-FERNROADSS 500 & MN_RM_23 500	p6_1_1-0	no issues	no issues	no issues
FERNROADSS-ROUNDMT-MALIN 500 & MN_RM_23 500 & TABLEMTN 500 & FR_TM_22 500	p6_1_1-1	no issues	no issues	no issues
VACADIX-TABLEMTN 500 & ROUNDMT 500	p6_1_1-10	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-VINCENT 500	p6_1_1-100	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-VINCENT 500	p6_1_1-101	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-WIRLWIND 500	p6_1_1-102	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-HARLANSWSTA 500	p6_1_1-103	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-Q1596 500	p6_1_1-104	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-VINCENT 500	p6_1_1-105	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-VINCENT 500	p6_1_1-106	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-WIRLWIND 500	p6_1_1-107	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-HARLANSWSTA 500	p6_1_1-108	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY-Q1596 500	p6_1_1-109	no issues	no issues	no issues
VACADIX-TABLEMTN-FERNROADSS 500 & TM_TS_11 500 & ROUNDMT 500 & RM_TM_22 500	p6_1_1-11	no issues	no issues	no issues
MIDWAY-VINCENT 500	p6_1_1-110	no issues	no issues	no issues
VINCENT-MIDWAY-WIRLWIND 500	p6_1_1-111	no issues	no issues	no issues
VINCENT-MIDWAY-HARLANSWSTA 500	p6_1_1-112	no issues	no issues	no issues
VINCENT-MIDWAY-Q1596 500	p6_1_1-113	no issues	no issues	no issues
VINCENT-MIDWAY-WIRLWIND 500	p6_1_1-114	no issues	no issues	no issues
VINCENT-MIDWAY-HARLANSWSTA 500	p6_1_1-115	no issues	no issues	no issues
VINCENT-MIDWAY-Q1596 500	p6_1_1-116	no issues	no issues	no issues
WIRLWIND-MIDWAY-HARLANSWSTA 500	p6_1_1-117	no issues	no issues	no issues
WIRLWIND-MIDWAY-Q1596 500	p6_1_1-118	no issues	no issues	no issues
HARLANSWSTA-MIDWAY-Q1596 500	p6_1_1-119	no issues	no issues	no issues
VACADIX-TABLEMTN-FERNROADSS 500 & TM_TS_11 500 & ROUNDMT 500 & FR_TM_12 500	p6_1_1-12	no issues	no issues	no issues
GATES-DIABLOCNYNSS-MIDWAY 500	p6_1_1-120	no issues	no issues	no issues
GATES-DIABLOCNYNSS-MIDWAY 500	p6_1_1-121	no issues	no issues	no issues
MIDWAY-DIABLOCNYNSS 500	p6_1_1-122	no issues	no issues	no issues
OLINDA-TRACY-TESLAD 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_1-124	no issues	no issues	no issues
OLINDA-TRACY-LOSBANOS 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_1-125	no issues	no issues	no issues
TESLAD-TRACY-LOSBANOS 500	p6_1_1-126	no issues	no issues	no issues
MALIN-ROUNDMT-FERNROADSS 500	p6_1_1-127	no issues	no issues	no issues
ROUNDMT-FERNROADSS-TABLEMTN 500	p6_1_1-128	no issues	no issues	no issues
ROUNDMT-FERNROADSS-TABLEMTN 500	p6_1_1-129	no issues	no issues	no issues
TABLEMTN-FERNROADSS 500 & TM_VD_11 500 & ROUNDMT 500 & RM_TM_22 500	p6_1_1-13	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500	p6_1_1-130	no issues	no issues	no issues
ROUNDMT-FERNROADSS-TABLEMTN 500	p6_1_1-131	no issues	no issues	no issues
ROUNDMT-FERNROADSS-TABLEMTN 500	p6_1_1-132	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500	p6_1_1-133	no issues	no issues	no issues
TABLEMTN-FERNROADSS 500	p6_1_1-134	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500	p6_1_1-135	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500	p6_1_1-136	no issues	no issues	no issues
OL_MX_12-MAXWELL 500 & TABLEMTN 500 & VACADIX 500	p6_1_1-137	no issues	no issues	no issues
LOSBANOS-MANNING-GATES 500	p6_1_1-138	no issues	no issues	no issues
LOSBANOS-MANNING-HARLANSWSTA 500 & OL_MX_12-MAXWELL 500	p6_1_1-139	no issues	no issues	no issues
TABLEMTN-FERNROADSS 500 & TM_VD_11 500 & ROUNDMT 500 & FR_TM_12 500	p6_1_1-14	no issues	no issues	no issues
LOSBANOS-MANNING 500 & GATES 500	p6_1_1-140	no issues	no issues	no issues
LOSBANOS-MANNING-GATES 500 & OL_MX_12-MAXWELL 500 & TABLEMTN 500 & VACADIX 500	p6_1_1-141	no issues	no issues	no issues
LOSBANOS-MANNING-HARLANSWSTA 500	p6_1_1-142	no issues	no issues	no issues
LOSBANOS-MANNING 500 & GATES 500 & OL_MX_12-MAXWELL 500 & TABLEMTN 500 & VACADIX 500	p6_1_1-143	no issues	no issues	no issues

GATES-MANNING-HARLANSWSTA 500 & OL_MX_12-MAXWELL 500 & TABLEMTN 500 & VACADIX 500	p6_1_1-144	no issues	no issues	no issues
MANNING-GATES 500	p6_1_1-145	no issues	no issues	no issues
HARLANSWSTA-MANNING 500 & GATES 500 & OL_MX_12-MAXWELL 500	p6_1_1-146	no issues	no issues	no issues
MIDWAY-HARLANSWSTA-Q1949 500	p6_1_1-147	no issues	no issues	no issues
MIDWAY-HARLANSWSTA-MANNING 500	p6_1_1-148	no issues	no issues	no issues
Q1949-HARLANSWSTA-MANNING 500	p6_1_1-149	no issues	no issues	no issues
TABLEMTN-FERNROADSS 500	p6_1_1-15	no issues	no issues	no issues
TESLAD-TABLEMTN 500	p6_1_1-150	no issues	no issues	no issues
TRACY-TESLAD-METCALF 500 No Fault	p6_1_1-16	no issues	no issues	no issues
TRACY-TESLAD-LOSBANOS 500 No Fault	p6_1_1-17	no issues	no issues	no issues
TRACY-TESLAD-TESLAE 500 No Fault	p6_1_1-18	no issues	no issues	no issues
TRACY-TESLAD 500 No Fault	p6_1_1-19	no issues	no issues	no issues
FERNROADSS-ROUNDMT-MALIN 500 & TABLEMTN 500 & FR_TM_22 500	p6_1_1-2	no issues	no issues	no issues
TRACY-TESLAD-METCALF 500 No Fault	p6_1_1-20	no issues	no issues	no issues
METCALF-TESLAD-LOSBANOS 500 No Fault	p6_1_1-21	no issues	no issues	no issues
METCALF-TESLAD-TESLAE 500 No Fault	p6_1_1-22	no issues	no issues	no issues
METCALF-TESLAD 500 No Fault	p6_1_1-23	no issues	no issues	no issues
METCALF-TESLAD 500 No Fault	p6_1_1-24	no issues	no issues	no issues
LOSBANOS-TESLAD-TESLAE 500 No Fault	p6_1_1-25	no issues	no issues	no issues
LOSBANOS-TESLAD 500 No Fault	p6_1_1-26	no issues	no issues	no issues
LOSBANOS-TESLAD-METCALF 500 No Fault	p6_1_1-27	no issues	no issues	no issues
TESLAE-TESLAD 500 No Fault	p6_1_1-28	no issues	no issues	no issues
TESLAE-TESLAD-METCALF 500 No Fault	p6_1_1-29	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500	p6_1_1-3	no issues	no issues	no issues
TESLAD-METCALF 500 No Fault	p6_1_1-30	no issues	no issues	no issues
TESLAE-COLLINSVILLE-VACADIX-TABLEMTN 500	p6_1_1-31	no issues	no issues	no issues
COLLINSVILLE-VACADIX-TABLEMTN 500	p6_1_1-32	no issues	no issues	no issues
TESLAE-COLLINSVILLE-VACADIX 500 & HB_CV_12 500	p6_1_1-33	no issues	no issues	no issues
TESLAD-METCALF-MOSSLAND 500	p6_1_1-34	no issues	no issues	no issues
TESLAD-METCALF-GROVE 500	p6_1_1-35	no issues	no issues	no issues
MANNING-METCALF-TESLAD 500	p6_1_1-36	no issues	Loss of generation	PRC-026 notification may be issued
MOSSLAND-METCALF-GROVE 500	p6_1_1-37	no issues	no issues	no issues
MOSSLAND-METCALF-MANNING & METCALF-TESLA 500	p6_1_1-38	no issues	Loss of Grove-Skylake HVDC & Low Martin 115kV Voltage	GBA Redevelopment to address
GROVE-METCALF 500 & TESLAD-METCALF 500	p6_1_1-39	no issues	Low Moraga 230kV voltage; Potential WECC/NERC criteria violation	GBA Redevelopment to address
FERNROADSS-ROUNDMT-MALIN 500 & MN_RM_23 500 & RM_FR_11 500 & TABLEMTN 500	p6_1_1-4	no issues	no issues	no issues
METCALF-MOSSLAND-LOSBANOS 500	p6_1_1-40	no issues	no issues	no issues
METCALF-MOSSLAND-DALLASES 500	p6_1_1-41	no issues	no issues	no issues
LOSBANOS-MOSSLAND-DALLASES 500	p6_1_1-42	no issues	no issues	no issues
TRACY-LOSBANOS-TESLAD 500	p6_1_1-43	no issues	Overvoltages on Tesla, Tracy and Round Mtn 500kV	Under review with PTO for operational mitigation, fault clearing time and fault impedances.
TRACY-LOSBANOS-MOSSLAND 500	p6_1_1-44	no issues	no issues	no issues
TRACY-LOSBANOS-MANNING 500	p6_1_1-45	no issues	no issues	no issues
TRACY-LOSBANOS-MANNING 500	p6_1_1-46	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_1-47	no issues	no issues	no issues
TESLAD-LOSBANOS-MOSSLAND 500	p6_1_1-49	no issues	no issues	no issues
FERNROADSS-ROUNDMT-MALIN 500 & RM_FR_11 500 & TABLEMTN 500	p6_1_1-5	no issues	no issues	no issues
TESLAD-LOSBANOS-MANNING 500	p6_1_1-50	no issues	no issues	no issues
TESLAD-LOSBANOS-MANNING 500	p6_1_1-51	no issues	no issues	no issues
TESLAD-LOSBANOS 500	p6_1_1-52	no issues	no issues	no issues
TESLAD-LOSBANOS 500	p6_1_1-53	no issues	no issues	no issues
MOSSLAND-LOSBANOS-MANNING #1 500	p6_1_1-54	no issues	no issues	no issues
MOSSLAND-LOSBANOS-MANNING #2 500	p6_1_1-55	no issues	no issues	no issues
MOSSLAND-LOSBANOS-GATES 500	p6_1_1-56	no issues	no issues	no issues
OL_MX_12-MAXWELL 500	p6_1_1-58	no issues	no issues	no issues
MANNING-LOSBANOS 500	p6_1_1-59	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500	p6_1_1-6	no issues	no issues	no issues
MANNING-LOSBANOS #1 LOSBANOS-GATES_500	p6_1_1-60	no issues	no issues	no issues
MANNING-LOSBANOS #2 LOSBANOS-GATES_500	p6_1_1-61	no issues	no issues	no issues
LOSBANOS-GATES #3 500	p6_1_1-63	no issues	no issues	no issues
FERNROADSS-ROUNDMT-MALIN 500	p6_1_1-7	no issues	no issues	no issues
DIABLOCNYNSS-GATES-MIDWAY 500	p6_1_1-71	no issues	no issues	no issues
DIABLOCNYNSS-GATES-ORCHARDSTCM1 500	p6_1_1-72	no issues	no issues	no issues
DIABLOCNYNSS-GATES-ORCHARDSTCM2 500	p6_1_1-73	no issues	no issues	no issues
DIABLOCNYNSS-GATES-MANNING 500	p6_1_1-74	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500 & LOSBANOS 500	p6_1_1-75	no issues	no issues	no issues
DIABLOCNYNSS-GATES-MANNING 500	p6_1_1-76	no issues	no issues	no issues
MIDWAY-GATES-ORCHARDSTCM1 500	p6_1_1-77	no issues	no issues	no issues
MIDWAY-GATES-ORCHARDSTCM2 500	p6_1_1-78	no issues	no issues	no issues
MIDWAY-GATES-MANNING 500	p6_1_1-79	no issues	no issues	no issues
MALIN-ROUNDMT-FERNROADSS 500	p6_1_1-8	no issues	no issues	no issues
GATES-MIDWAY 500 & LOSBANOS 500	p6_1_1-80	no issues	no issues	no issues
MIDWAY-GATES-MANNING 500	p6_1_1-81	no issues	no issues	no issues
ORCHARDSTCM1-GATES-ORCHARDSTCM2 500	p6_1_1-82	no issues	no issues	no issues
ORCHARDSTCM1-GATES-MANNING 500	p6_1_1-83	no issues	no issues	no issues
GATES-ORCHARDSTCM1 500 & LOSBANOS 500	p6_1_1-84	no issues	no issues	no issues
ORCHARDSTCM1-GATES-MANNING 500	p6_1_1-85	no issues	no issues	no issues
ORCHARDSTCM2-GATES-MANNING 500	p6_1_1-86	no issues	no issues	no issues
GATES-ORCHARDSTCM2 500 & LOSBANOS 500	p6_1_1-87	no issues	no issues	no issues
ORCHARDSTCM2-GATES-MANNING 500	p6_1_1-88	no issues	no issues	no issues
GATES-MANNING 500 & LOSBANOS 500	p6_1_1-89	no issues	no issues	no issues
MALIN-ROUNDMT-FERNROADSS 500 & TABLEMTN 500 & FR_TM_22 500	p6_1_1-9	no issues	no issues	no issues
MANNING-GATES 500	p6_1_1-90	no issues	no issues	no issues
LOSBANOS 500 & MANNING-GATES 500	p6_1_1-91	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p6_1_1-92	no issues	no issues	no issues
GATES-MIDWAY-DIABLOCNYNSS 500	p6_1_1-93	no issues	no issues	no issues
GATES-MIDWAY-VINCENT #1 500	p6_1_1-94	no issues	no issues	no issues
GATES-MIDWAY-VINCENT #2 500	p6_1_1-95	no issues	no issues	no issues
GATES-MIDWAY-WIRLWIND 500	p6_1_1-96	no issues	no issues	no issues
GATES-MIDWAY-HARLANSWSTA 500	p6_1_1-97	no issues	no issues	no issues
GATES-MIDWAY-Q1596 500	p6_1_1-98	no issues	no issues	no issues
MIDWAY-DIABLOCNYNSS 500	p6_1_1-99	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & ROUND MT 500/230-1	p6_1_2-0	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & ROUND MT 500/230-1	p6_1_2-1	no issues	no issues	no issues
TESLAD-METCALF 500 & TESLA D 500/230-2	p6_1_2-10	no issues	no issues	no issues
TESLAD-LOSBANOS 500 & TESLA D 500/230-2	p6_1_2-11	no issues	no issues	no issues
TESLAD-TESLAE 500 & TESLA D 500/230-2	p6_1_2-12	no issues	no issues	no issues
TESLAD 500 & TESLA D 500/230-2	p6_1_2-13	no issues	no issues	no issues
METCALF-TESLAD 500 & TESLA D 500/230-2	p6_1_2-14	no issues	no issues	no issues
VACADIX-TABLEMTN 500 & VACA-DIX 500/230-11	p6_1_2-15	no issues	no issues	no issues
VACADIX-COLLINSVILLE-TESLAE 500 & VACA-DIX 500/230-11	p6_1_2-16	no issues	no issues	no issues
COLLINSVILLE-VACADIX 500 & VACA-DIX 500/230-11	p6_1_2-17	no issues	no issues	no issues
TESLAD-METCALF 500 & METCALF 500/230-11	p6_1_2-18	no issues	no issues	no issues
METCALF-MOSSLAND 500 & METCALF 500/230-11	p6_1_2-19	no issues	no issues	no issues
MALIN-ROUNDMT-FERNROADSS 500 & MN_RM_23 500 & TABLEMTN 500 & FR_TM_22 500 & ROUND MT 500/230-1	p6_1_2-2	no issues	no issues	no issues
GROVE-METCALF 500 & METCALF 500/230-11	p6_1_2-20	no issues	no issues	no issues
METCALF-TESLAD 500 & METCALF 500/230-11	p6_1_2-21	no issues	no issues	no issues
METCALF-MOSSLAND 500 & MOSSLAND 500/230-9	p6_1_2-22	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500 & MOSSLAND 500/230-9	p6_1_2-23	no issues	no issues	no issues
DALLASES-MOSSLAND 500 & MOSSLAND 500/230-9	p6_1_2-24	no issues	no issues	no issues
TRACY-LOSBANOS 500 & LOSBANOS 500/230-1	p6_1_2-25	no issues	no issues	no issues
TESLAD-LOSBANOS 500 & LOSBANOS 500/230-1	p6_1_2-26	no issues	no issues	no issues
MOSSLAND-LOSBANOS 500 & LOSBANOS 500/230-1	p6_1_2-27	no issues	no issues	no issues

LOSBANOS-MANNING 500 & LOSBANOS 500/230-1	p6_1_2-28	no issues	no issues	no issues
LOSBANOS-MANNING 500 & LOSBANOS 500/230-1	p6_1_2-29	no issues	no issues	no issues
ROUNDMT-MALIN 500 & ROUND MT 500/230-1	p6_1_2-3	no issues	no issues	no issues
LOSBANOS 500 & LOSBANOS 500/230-1	p6_1_2-30	no issues	no issues	no issues
LOSBANOS 500 & LOSBANOS 500/230-1	p6_1_2-31	no issues	no issues	no issues
GATES-DIABLOCNYNSS 500 & GATES 500/230-12	p6_1_2-33	no issues	no issues	no issues
GATES-MIDWAY 500 & GATES 500/230-12	p6_1_2-34	no issues	no issues	no issues
GATES-ORCHARDSTCM1 500 & GATES 500/230-12	p6_1_2-35	no issues	no issues	no issues
GATES-ORCHARDSTCM2 500 & GATES 500/230-12	p6_1_2-36	no issues	no issues	no issues
GATES-MANNING 500 & GATES 500/230-12	p6_1_2-37	no issues	no issues	no issues
LOSBANOS 500 & GATES 500/230-12	p6_1_2-38	no issues	no issues	no issues
MANNING-GATES 500 & GATES 500/230-12	p6_1_2-39	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & ROUND MT 500/230-1	p6_1_2-4	no issues	no issues	no issues
GATES-MIDWAY 500 & MIDWAY 500/230-11	p6_1_2-40	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500 & MIDWAY 500/230-11	p6_1_2-41	no issues	no issues	no issues
DIABLOCNYNSS-MIDWAY 500 & MIDWAY 500/230-11	p6_1_2-42	no issues	no issues	no issues
MIDWAY-VINCENT 500 & MIDWAY 500/230-11	p6_1_2-43	no issues	no issues	no issues
MIDWAY-VINCENT 500 & MIDWAY 500/230-11	p6_1_2-44	no issues	no issues	no issues
MIDWAY-WIRLWIND 500 & MIDWAY 500/230-11	p6_1_2-45	no issues	no issues	no issues
HARLANSWSTA-MIDWAY 500 & MIDWAY 500/230-11	p6_1_2-46	no issues	no issues	no issues
Q1596-MIDWAY 500 & MIDWAY 500/230-11	p6_1_2-47	no issues	no issues	no issues
OLINDA-TRACY 500 & OLINDA 500/230-1 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_2-48	no issues	no issues	no issues
VACADIX-TABLEMTN 500 & TABLE MTN 500/230-5	p6_1_2-5	no issues	no issues	no issues
OLINDA-TRACY 500 & TRACY 500/230-1 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_2-50	no issues	no issues	no issues
TRACY-TESLAD 500 & TRACY 500/230-1	p6_1_2-51	no issues	no issues	no issues
TRACY-LOSBANOS 500 & TRACY 500/230-1	p6_1_2-52	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & FERNROADSS 500/61-1	p6_1_2-53	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & FERNROADSS 500/61-1	p6_1_2-54	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500 & FERNROADSS 500/61-1	p6_1_2-55	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500 & FERNROADSS 500/61-1	p6_1_2-56	no issues	no issues	no issues
FERNROADSS-ROUNDMT 500 & TABLEMTN 500 & FERNROADSS 500/61-1	p6_1_2-57	no issues	no issues	no issues
COLLINSVILLE-VACADIX 500 & COLLINSVILLE 500/230-1	p6_1_2-58	no issues	no issues	no issues
LOSBANOS-MANNING 500 & MANNING 500/230-1	p6_1_2-59	no issues	no issues	no issues
TABLEMTN 500 & TABLE MTN 500/230-5	p6_1_2-6	no issues	no issues	no issues
LOSBANOS-MANNING 500 & MANNING 500/230-1	p6_1_2-60	no issues	no issues	no issues
GATES-MANNING 500 & MANNING 500/230-1	p6_1_2-61	no issues	no issues	no issues
HARLANSWSTA-MANNING 500 & MANNING 500/230-1	p6_1_2-62	no issues	no issues	no issues
MANNING-GATES 500 & MANNING 500/230-1	p6_1_2-63	no issues	no issues	no issues
HUMBOLDTOSW 500 & HUMBOLDTOSW 500/115-1	p6_1_2-64	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500 & TABLE MTN 500/230-5	p6_1_2-7	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500 & TABLE MTN 500/230-5	p6_1_2-8	no issues	no issues	no issues
TRACY-TESLAD 500 & TESLA D 500/230-2	p6_1_2-9	no issues	no issues	no issues
VACADIX-TABLEMTN 500	p6_1_3-0	no issues	no issues	no issues
TABLEMTN 500	p6_1_3-1	no issues	no issues	no issues
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_3-10	no issues	no issues	no issues
TRACY-TESLAD 500	p6_1_3-11	no issues	no issues	no issues
TRACY-LOSBANOS 500	p6_1_3-12	no issues	no issues	no issues
TABLEMTN 500	p6_1_3-13	no issues	no issues	no issues
TABLEMTN-TESLAD 500 (mid-line fault)	p6_1_3-14	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500	p6_1_3-2	no issues	no issues	no issues
FERNROADSS-TABLEMTN 500 & ROUNDMT 500	p6_1_3-3	no issues	no issues	no issues
TESLAD-METCALF 500	p6_1_3-4	no issues	no issues	no issues
METCALF-MOSSLAND 500	p6_1_3-5	no issues	no issues	no issues
GROVE-METCALF 500	p6_1_3-6	no issues	no issues	no issues
METCALF-TESLAD & METCALF-MANNING 500	p6_1_3-7	no issues	no issues	no issues
OLINDA-TRACY 500 & CJ_OL_13 500 shunt & OL_MX_11 500 shunt	p6_1_3-8	no issues	no issues	no issues
TABLE MTN 500/230-5 & TABLE MTN 500/230-6	p6_2_2-0	no issues	no issues	no issues
TESLA D 500/230-2 & TESLA D 500/230-4	p6_2_2-1	no issues	no issues	no issues
VACA-DIX 500/230-11 & VACA-DIX 500/230-12	p6_2_2-2	no issues	no issues	no issues
METCALF 500/230-11 & METCALF 500/230-12	p6_2_2-3	no issues	no issues	no issues
GATES 500/230-12 & GATES 500/230-11	p6_2_2-4	no issues	no issues	no issues
MIDWAY 500/230-11 & MIDWAY 500/230-12	p6_2_2-5	no issues	no issues	no issues
TRACY 500/230-1 & TRACY 500/230-2	p6_2_2-6	no issues	no issues	no issues
FERNROADSS 500/61-1 & FERNROADSS 500/61-2	p6_2_2-7	no issues	no issues	no issues
COLLINSVILLE 500/230-1 & COLLINSVILLE 500/230-2	p6_2_2-8	no issues	no issues	no issues
MANNING 500/230-1 & MANNING 500/230-2	p6_2_2-9	no issues	no issues	no issues
TABLE MTN 500/230-5	p6_2_3-0	no issues	no issues	no issues
METCALF 500/230-11	p6_2_3-1	no issues	no issues	no issues
OLINDA 500/230-1	p6_2_3-2	no issues	no issues	no issues
TRACY 500/230-1	p6_2_3-3	no issues	no issues	no issues

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

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

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

No single source substation with more than 100 MW