2024-2025 ISO Reliability Assessment - Preliminary Study Results
Study Area: PG&E Bulk
Thermal Overloads

Monitored Facility	Contingency Description	Category	Category Description	2026HS	2029HS	2034HS	2039HS	2026SPOP	2029SPOP	2034SPOP	2039SPOP	2034WOP	2026HS-Hi Renew MinGas	2026 SOP Hi Renew & MinGas	2029HS-HiCEC	Project & Potential Mitigation
30060 MIDWAY 500 24595 MN WRLWND 31 500 3 1	Base Case	P0	base	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	System redispatch
30435 LAKEVILE 230 30460 VACA-DIX 230 1 1	Base Case	P0	base	<100	<100	<100	103	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
30440 TULUCAY 230 30460 VACA-DIX 230 SS 1	Base Case	P0	base	<100	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
38605 BUENAVJ2 230 30969 MIDWAY-DBAAH 230 2 1	Base Case	P0	base	<100	<100	<100	<100	<100	<100	<100	<100	<100	60	108	<100	Sensitivity Only
300151 TM_VD_11 500 300152 TM_VD_12 500 1 1	Base Case	P0	base	<100	<100	<100	78	<100	<100	<100	<100	<100	100	74	<100	Sensitivity Only
300051 RM_FR_11 500 300060 FERNROADSS 500 1 1	P1-2:A0:5:_ROUND MTN-FERNROADSS 500kV 2[0]	P1	L-1	<100	<100	<100	104	<100	<100	<100	76	<100	109	78	<100	Previously recommended N-1 RAS
300053 FR_TM_22 500 300060 FERNROADSS 500 2 1	P1-2:A0:4: ROUND MTN-FERNROADSS 500kV 1[0]	P1	L-1	<100	<100	<100	<100	<100	<100	<100	76	<100	109	78	<100	Sensitivity Only
300053 RM_FR_22 500 300060 FERNROADSS 500 2 1	P1-2:A0:4: ROUND MTN-FERNROADSS 500kV 1[0]	P1	L-1	<100	<100	<100	104	<100	<100	<100	<100	<100	<100	<100	<100	Previously recommended N-1 RAS
30050 LOSBANOS 500 300505 LB_MN_11 500 1 1	P1-2:A0:18:_LOSBANOS-MANNING 500KV 2[0]	P1	L-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30052 MANNING 500 300501 MN_GT_11 500 1 1	P1-2:A0:29:_MIDWAY-MANNING 500KV [0]	P1	L-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30731 LS ESTRS 230 38901 SSS 230 1 1	P1-5:A0:6:_NEWARK-NRS POLE 2	P1	L-1	<100	<100	<100	118	<100	<100	<100	100	<100	<100	<100	<100	Mitigation in GBA local area assessment.
300151 TM_VD_11 500 300152 TM_VD_12 500 1 1	P1-2:A0:7:_TABLE MTN-TESLA 500kV [6080]	P1	L-1	<100	<100	<100	74	<100	<100	<100	<100	<100	104	79	<100	Sensitivity Only
300153 TM_TS_11 500 300154 TM_TS_12 500 1 1	P1-2:A0:6: TABLE MTN-VACA 500kV [6090]	P1	L-1	<100	<100	<100	69	<100	<100	<100	<100	<100	104	81	<100	Sensitivity Only
300551 GT_MW_11 500 30060 MIDWAY 500 1 1	P1-2:A0:29: MIDWAY-MANNING 500KV [0]	P1	L-1	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	System redispatch
300051 RM_FR_11 500 300060 FERNROADSS 500 1 1	P2-1:A0:20:_ROUND MTN-FERN RD #2 500kV [9502] (RM_FR_22-FERNROADSS)	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	<100	<100	109	<100	<100	Sensitivity Only
300051 RM_FR_11 500 300060 FERNROADSS 500 1 1	P2-1:A0:5:_ROUND MTN-FERN RD #2 500kV [9502] (ROUND MT-RM_FR_22)	P2	bus-bkr	<100	<100	<100	104	<100	<100	<100	<100	<100	<100	78	<100	Previously recommended N-1 RAS
300053 FR_TM_22 500 300060 FERNROADSS 500 2 1	P2-1:A0:18:_ROUND MTN-FERN RD #1 500kV [9501] (RM_FR_11-FERNROADSS)	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	76	<100	109	<100	<100	Sensitivity Only
300053 RM_FR_22 500 300060 FERNROADSS 500 2 1	P2-1:A0:4:_ROUND MTN-FERN RD #1 500kV [9501] (ROUND MT-RM_FR_11)	P2	bus-bkr	<100	<100	<100	104	<100	<100	<100	<100	<100	<100	<100	<100	Previously recommended N-1 RAS
30040 TESLA 500 33856 TESLA 6M 13.8 6 1	P2-3:A0:17:_TESLA 500kV - Middle Breaker Bay 3	P2	bus-bkr	<100	<100	<100	93	<100	<100	<100	<100	<100	108	56	<100	Sensitivity Only
30050 LOSBANOS 500 300505 LB_MN_11 500 1 1	P2-3:A0:28: LOSBANOS 500kV - Middle Breaker Bay 2	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	104	<100	<100	<100	<100	System redispatch
30050 LOSBANOS 500 300506 LB_MN_21 500 2 1	P2-1:A0:11:_LOS BANOS-MANNING #1 500kV [9506] (LOSBANOS-LB_MN_11)	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30052 MANNING 500 300501 MN_GT_11 500 1 1	P2-3:A0:54:_MANNING 500kV - Middle Breaker Bay 3	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	System redispatch
30052 MANNING 500 300502 MN_MW_21 500 2 1	P2-3:A0:33:_GATES 500kV - Middle Breaker Bay 4	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	102	<100	<100	<100	<100	System redispatch
30640 TESLA C 230 30655 PPASSJCT 230 2 1	P2-3:A0:17:_TESLA 500kV - Middle Breaker Bay 3	P2	bus-bkr	<100	<100	<100	103	<100	<100	<100	<100	<100	59	<100	<100	Continue to monitor
30640 TESLA C 230 33856 TESLA 6M 13.8 6 1	P2-3:A0:17:_TESLA 500kV - Middle Breaker Bay 3	P2	bus-bkr	<100	<100	<100	92	<100	<100	<100	<100	<100	107	55	<100	Sensitivity Only
300151 TM_VD_11 500 300152 TM_VD_12 500 1 1	P2-3:A0:16: TESLA 500kV - Middle Breaker Bay 1	P2	bus-bkr	<100	<100	<100	78	<100	<100	<100	<100	<100	111	82	<100	Sensitivity Only
300153 TM_TS_11 500 300154 TM_TS_12 500 1 1	P2-3:A0:8:_VACA-DIX 500kV - Middle Breaker Bay 3	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	<100	<100	104	82	<100	Sensitivity Only
300504 MN_MW_23 500 30060 MIDWAY 500 2 1	P2-3:A0:33:_GATES 500kV - Middle Breaker Bay 4	P2	bus-bkr	<100	<100	<100	<100	<100	<100	<100	104	<100	<100	<100	<100	System redispatch
300551 GT_MW_11 500 30060 MIDWAY 500 1 1	P2-1:A0:40:_MIDWAY-MANNING 500kV [9508] (MANNING-MN_MW_21)	P2	relay	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	System redispatch
30040 TESLA 500 33856 TESLA 6M 13.8 6 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5	relay	<100	<100	<100	0	<100	<100	<100	<100	<100	119	67	<100	Sensitivity Only
30050 LOSBANOS 500 300502 LB_MW_11 500 1 1	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	106	61	<100	Sensitivity Only
30052 MANNING 500 300502 MN_MW_21 500 2 1	P5-5(DC):A0:6: Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	126	<100	<100	<100	<100	System redispatch
30055 GATES 500 34657 GATES12M 13.8 12 1	P5-5(DC):A0:7: Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	102	<100	<100	Sensitivity Only
30105 COTWD_E 230 30245 ROUND MT 230 3 1	P5-5(DC):A0:2:_Station DC Battery Supply Table Mtn 500-230-115-60kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	0	101	<100	Sensitivity Only
30348 BRIGHTON 230 30500 BELLOTA 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	104	77	<100	Sensitivity Only
30435 LAKEVILE 230 30460 VACA-DIX 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	110	<100	<100	<100	<100	<100	86	63	<100	Install redundant battery supply
30440 TULUCAY 230 30460 VACA-DIX 230 SS 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	105	<100	<100	<100	<100	<100	<100	<100	<100	Install redundant battery supply
30460 VACA-DIX 230 30465 BAHIA 230 1 1	P5-5(DC):A0:4: Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	100	<100	<100	<100	<100	<100	124	84	<100	Sensitivity Only
30460 VACA-DIX 230 30467 PARKWAY 230 1 1	P5-5(DC):A0:4: Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	100	<100	<100	<100	<100	<100	127	84	<100	Sensitivity Only
30465 BAHIA 230 30550 MORAGA 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	87	<100	<100	<100	<100	<100	124	77	<100	Sensitivity Only
30467 PARKWAY 230 30550 MORAGA 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	88	<100	<100	<100	<100	<100	120	78	<100	Sensitivity Only
30515 WARNERVL 230 30516 WILSONRCTR 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	100	<100	<100	<100	0	<100	66	146	<100	Install redundant battery supply
30516 WILSONRCTR 230 30800 WILSON 230 4 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	144	<100	Sensitivity Only
30550 MORAGA 230 30554 CASTROVL 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	123	<100	<100	<100	<100	<100	130	134	<100	Install redundant battery supply
30554 CASTROVL 230 30631 NEWARK E 230 1 1	P5-5(DC):A0:4: Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	111	<100	<100	<100	<100	<100	148	150	<100	Install redundant battery supply
30565 BRENTWOD 230 30569 KELSO 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	105	<100	Sensitivity Only
30574 WINDMASTERJT 230 38610 DELTAPMP 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	82	160	<100	Sensitivity Only
30580 SANDHLWJCT 230 30625 TESLA D 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	103	<100	Sensitivity Only
30590 USWP-JRW_JCT 230 30530 CAYETANO 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	105	<100	<100	<100	<100	<100	<100	<100	<100	Install redundant battery supply
30624 TESLA E 230 30670 WESTLEY 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	105	<100	<100	<100	68	<100	<100	<100	<100	Install redundant battery supply
30631 NEWARK E 230 30635 NWK DIST 230 1 1	P5-5(DC):A0:8: Station DC Battery Supply Metcalf 500-230kV Batt	P5	relay	<100	<100	<100	0	<100	<100	<100	55	<100	104	70	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5	relay	<100	<100	<100	0	<100	<100	<100	54	<100	106	73	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 2	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5	relay	<100	<100	<100	0	<100	<100	<100	51	<100	100	69	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 3	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5	relay	<100	<100	<100	0	<100	<100	<100	51	<100	100	69	<100	Sensitivity Only
30640 TESLA C 230 33856 TESLA 6M 13.8 6 1	P5-5(DC):A0:8:_Station DC Battery Supply Metcalf 500-230kV Batt	P5	relay	<100	<100	<100	0	<100	<100	<100	<100	<100	117	66	<100	Sensitivity Only
30725 C.COSTAPPE 230 30574 WINDMASTERJT 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	77	160	<100	Sensitivity Only
30726 C.COSTAPPF 230 30565 BRENTWOD 230 1 1	P5-5(DC):A0:4: Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	130	<100	Sensitivity Only
30755 MOSSLNSW 230 30797 LASAGUILASS 230 2 1	P5-5(DC):A0:5: Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	149	162	<100	Sensitivity Only
30755 MOSSLNSW 230 30798 LASAGLSRCTR 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	127	<100	<100	<100	0	<100	<100	<100	<100	Install redundant battery supply
30760 COBURN 230 30797 LASAGUILASS 230 1 2	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	<100	100	<100	Sensitivity Only
30761 FINKSWSTA 230 30670 WESTLEY 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	103	<100	<100	<100	<100	System redispatch

30765 LOSBANOS 230 38615 DS AMIGO 230 1 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	52	117	<100	Sensitivity Only
30790 PANOCHE 230 30902 GATES E 230 1 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	115	<100	54	63	<100	System redispatch
30790 PANOCHE 230 30902 GATES E 230 2 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	122	<100	57	67	<100	System redispatch
30797 LASAGUILASS 230 30790 PANOCHE 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	81	<100	<100	<100	0	<100	76	122	<100	Sensitivity Only
30797 LASAGUILASS 230 30790 PANOCHE 230 2 1	P5-5(DC):A0:5: Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	81	<100	<100	<100	0	<100	76	123	<100	Sensitivity Only
30800 WILSON 230 30801 STOREYJCT1 230 1 1	P5-5(DC):A0:5: Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	134	<100	Sensitivity Only
30800 WILSON 230 30802 STOREYJCT2 230 2 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	104	<100	Sensitivity Only
30800 WILSON 230 37563 MELONES 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	157	<100	Sensitivity Only
30801 STOREYJCT1 230 30805 BORDEN 230 1 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	52	<100	<100	<100	0	<100	<100	119	<100	Sensitivity Only
30802 STOREYJCT2 230 30805 BORDEN 230 2 1	P5-5(DC):A0:5:_Station DC Battery Supply Los Banos 500-230-70kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	<100	104	<100	Sensitivity Only
30900 GATES D 230 30889 CALFLATSSS 230 1 1	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	116	<100	<100	Sensitivity Only
30906 GATES F 230 30935 ARCO 230 1 1	P5-5(DC):A0:7: Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	142	<100	<100	Sensitivity Only
30906 GATES F 230 30971 MIDWAY-F 230 1 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	<100	Sensitivity Only
30906 GATES F 230 30971 MIDWAY-F 230 1 1	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	155	<100	<100	Sensitivity Only
30935 ARCO 230 30970 MIDWAY-E 230 1 1	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	0	<100	114	<100	<100	Sensitivity Only
38610 DELTAPMP 230 30580 SANDHLWJCT 230 1 1	P5-5(DC):A0:4:_Station DC Battery Supply Tesla 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	103	<100	Sensitivity Only
300153 TM_TS_11 500 300154 TM_TS_12 500 1 1	P5-5(DC):A0:3:_Station DC Battery Supply Vaca-Dixon 500kV Batt	P5	relay	<100	<100	<100	68	<100	<100	<100	<100	<100	103	83	<100	Sensitivity Only
300502 MN_MW_21 500 300503 MN_MW_22 500 2 1	P5-5(DC):A0:6: Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	112	<100	<100	<100	<100	System redispatch
300503 MN_MW_22 500 300504 MN_MW_23 500 2 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	112	<100	<100	<100	<100	System redispatch
300504 LB_MW_13 500 30060 MIDWAY 500 1 1	P5-5(DC):A0:7:_Station DC Battery Supply Midway 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	<100	<100	106	61	<100	Sensitivity Only
300504 MN_MW_23 500 30060 MIDWAY 500 2 1	P5-5(DC):A0:6:_Station DC Battery Supply Gates 500kV Batt	P5	relay	<100	<100	<100	<100	<100	<100	<100	127	<100	<100	<100	<100	System redispatch
30005 ROUND MT 500 30065 RD MT 1M 500 1 1	P1-2:A0:2:_MALIN-ROUND MT 500kV 2[6020] & P1-2:A0:1:_MALIN-ROUND MT 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	109	<100	<100	<100	<100	<100	91	<100	<100	Review existing RAS model
30005 ROUND MT 500 300051 RM_FR_11 500 1 1	P1-5:A0:2:_PDCI SOUTH POLE & P1-2:A0:5:_ROUND MTN-FERNROADSS 500kV 2[0]	P6	N-1/N-1	<100	<100	<100	127	<100	<100	<100	<100	<100	<100	82	<100	Previously recommended N-1 RAS
30005 ROUND MT 500 300053 FR_TM_22 500 2 1	P1-2:A0:8: OLINDA-TRACY 500kV [0] & P1-2:A0:4: ROUND MTN-FERNROADSS 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	104	77	<100	Sensitivity Only
30005 ROUND MT 500 300053 RM_FR_22 500 2 1	P1-5:A0:2: PDCI SOUTH POLE & P1-2:A0:4: ROUND MTN-FERNROADSS 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	127	<100	<100	<100	<100	<100	<100	<100	<100	Previously recommended N-1 RAS
30245 ROUND MT 230 30065 RD MT 1M 500 1 1	P1-2:A0:2:_MALIN-ROUND MT 500kV 2[6020] & P1-2:A0:1:_MALIN-ROUND MT 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	107	<100	<100	<100	<100	<100	<100	<100	<100	Review existing RAS model
300051 RM_FR_11 500 300060 FERNROADSS 500 1 1	P1-5:A0:2:_PDCI SOUTH POLE & P1-2:A0:5:_ROUND MTN-FERNROADSS 500kV 2[0]	P6	N-1/N-1	<100	<100	<100	154	<100	<100	<100	94	<100	<100	100	<100	Previously recommended N-1 RAS
300053 FR_TM_22 500 300060 FERNROADSS 500 2 1	P1-2:A0:8:_OLINDA-TRACY 500kV [0] & P1-2:A0:4:_ROUND MTN-FERNROADSS 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	127	94	<100	Sensitivity Only
300053 RM_FR_22 500 300060 FERNROADSS 500 2 1	P1-5:A0:2:_PDCI SOUTH POLE & P1-2:A0:4:_ROUND MTN-FERNROADSS 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	154	<100	<100	<100	<100	<100	<100	<100	<100	Previously recommended N-1 RAS
300060 FERNROADSS 500 300052 FR_TM_12 500 1 1	P1-5:A0:2: PDCI SOUTH POLE & P1-2:A0:27: TABLE MTN-FERNROADSS 500kV 2[0]	P6	N-1/N-1	<100	<100	<100	109	<100	<100	<100	<100	<100	<100	92	<100	Previously recommended N-1 RAS
300060 FERNROADSS 500 300054 FR_TM_22 500 2 1	P1-5:A0:2: PDCI SOUTH POLE & P1-2:A0:26: TABLE MTN-FERNROADSS 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	109	<100	<100	<100	<100	<100	<100	<100	<100	Previously recommended N-1 RAS
300060 FERNROADSS 500 300054 RM_TM_22 500 2 1	P1-2:A0:8:_OLINDA-TRACY 500kV [0] & P1-2:A0:26:_TABLE MTN-FERNROADSS 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	122	90	<100	Sensitivity Only
30040 TESLA 500 30050 LOSBANOS 500 1 1	P1-2:A0:24:_MIDWAY-VINCENT 500kV 2[0] & P1-2:A0:11:_TRACY-LOS BANOS 500kV [6130]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30040 TESLA 500 33856 TESLA 6M 13.8 6 1	P1-2:A0:12:_TESLA-METCALF 500kV [6110] & P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040]	P6	N-1/N-1	<100	<100	<100	93	<100	<100	<100	<100	<100	114	<100	<100	Sensitivity Only
30050 LOSBANOS 500 300505 LB_MN_11 500 1 1	P1-5:A0:6:_NEWARK-NRS POLE 2 & P1-2:A0:18:_LOSBANOS-MANNING 500KV 2[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30052 MANNING 500 300501 MN_GT_11 500 1 1	P1-5:A0:6:_NEWARK-NRS POLE 2 & P1-2:A0:29:_MIDWAY-MANNING 500KV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	System redispatch
30060 MIDWAY 500 24591 MN_VINCNT_11 500 1 1	P1-2:A0:25: MIDWAY-WIRLWIND 500KV [0] & P1-2:A0:24: MIDWAY-VINCENT 500KV 2[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	98	<100	114	<100	<100	Sensitivity Only
30060 MIDWAY 500 24593 MN_VINCNT_21 500 2 1	P1-2:A0:25:_MIDWAY-WIRLWIND 500KV [0] & P1-2:A0:23:_MIDWAY-VINCENT 500KV 1[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	98	<100	114	<100	<100	Sensitivity Only
30060 MIDWAY 500 24595 MN_WRLWND_31 500 3 1	P1-2:A0:24:_MIDWAY-VINCENT 500KV 2[0] & P1-2:A0:23:_MIDWAY-VINCENT 500KV 1[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	94	<100	107	<100	<100	Sensitivity Only
30060 MIDWAY 500 24595 MW_WRLWND_31 500 3 1	P1-2:A0:24:_MIDWAY-VINCENT 500KV 2[0] & P1-2:A0:23:_MIDWAY-VINCENT 500KV 1[0]	P6	N-1/N-1	<100	<100	111	<100	<100	<100	<100	<100	<100	<100	<100	<100	Under review
30105 COTWD_E 230 30245 ROUND MT 230 3 1	P1-2:A0:27:_TABLE MTN-FERNROADSS 500KV 2[0] & P1-2:A0:26:_TABLE MTN-FERNROADSS 500KV 1[0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	102	67	<100	Sensitivity Only
30337 GOLDHILL 230 37012 LAKE 230 1 1	P1-2:A0:5:_ROUND MTN-FERNROADSS 500kV 2[0] & P1-3:A0:4:_ROUND MT 500/230kV TB 1	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	Sensitivity Only
30435 LAKEVILE 230 30460 VACA-DIX 230 1 1	P1-2:A0:34:_COLLINSVILLE-PITTSBURG-F 230KV [0] & P1-2:A0:33:_COLLINSVILLE-PITTSBURG-E 230KV [0]	P6	N-1/N-1	<100	<100	<100	103	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
30537 NDUBLIN 230 35219 VINEYARD 230 1 1	P1-2:A0:8:_OLINDA-TRACY 500kV [0] & P1-2:A0:9:_VACA DIXON-COLLINSVILLE 500kV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	Sensitivity Only
30550 MORAGA 230 30554 CASTROVL 230 1 1	P1-2:A0:14:_METCALF-MOSSLANDING 500KV [6050] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	117	<100	<100	<100	<100	<100	<100	<100	<100	Under review
30554 CASTROVL 230 30631 NEWARK E 230 1 1	P1-2:A0:7:_TABLE MTN-TESLA 500kV [6080] & P1-2:A0:9:_VACA DIXON-COLLINSVILLE 500kV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	106	<100	<100	Sensitivity Only
30560 E. SHORE 230 30527 PITTSBURG-E 230 1 1	P1-2:A0:14:_METCALF-MOSSLANDING 500KV [6050] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	104	<100	<100	<100	<100	<100	<100	<100	<100	Under review
30567 LONETREE 230 30590 USWP-JRW_JCT 230 1 1	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	102	<100	<100	Sensitivity Only
30574 WINDMASTERJT 230 38610 DELTAPMP 230 1 1	P1-5:A0:2: PDCI SOUTH POLE & P1-2:A0:9: VACA DIXON-COLLINSVILLE 500kV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	102	<100	Sensitivity Only
30585 LS PSTAS 230 30630 NEWARK D 230 1 1	P1-2:A0:12:_TESLA-METCALF 500kV [6110] & P1-2:A0:14:_METCALF-MOSSLANDING 500KV [6050]	P6	N-1/N-1	<100	<100	<100	155	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation in GBA local area assessment.
30590 USWP-JRW_JCT 230 30530 CAYETANO 230 1 1	P1-2:A0:8:_OLINDA-TRACY 500kV [0] & P1-2:A0:9:_VACA DIXON-COLLINSVILLE 500kV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	108	92	<100	Sensitivity Only
30631 NEWARK E 230 30635 NWK DIST 230 1 1	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	120	89	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 1	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	125	95	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 2	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	118	90	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 3	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	118	90	<100	Sensitivity Only
30635 NWK DIST 230 30731 LS ESTRS 230 1 4	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	117	89	<100	Sensitivity Only
30640 TESLA C 230 30655 PPASSJCT 230 2 1	P1-2:A0:14:_METCALF-MOSSLANDING 500KV [6050] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	114	<100	<100	<100	<100	<100	<100	<100	<100	Mitigation in GBA local area assessment.
30640 TESLA C 230 33856 TESLA 6M 13.8 6 1	P1-2:A0:12:_TESLA-METCALF 500kV [6110] & P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040]	P6	N-1/N-1	<100	<100	<100	92	<100	<100	<100	<100	<100	112	<100	<100	Sensitivity Only
30655 PPASSJCT 230 30631 NEWARK E 230 2 1	P1-2:A0:12:_TESLA-METCALF 500kV [6110] & P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040]	P6	N-1/N-1	<100	<100	<100	89	<100	<100	<100	<100	<100	100	<100	<100	Sensitivity Only
30725 C.COSTAPPE 230 30574 WINDMASTERJT 230 1 1	P1-2:A0:9:_VACA DIXON-COLLINSVILLE 500kV [0] & P1-2:A0:7:_TABLE MTN-TESLA 500kV [6080]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	109	<100	Sensitivity Only
30731 LS ESTRS 230 38901 SSS 230 1 1	P1-5:A0:4:_METCALF-SJ POLE 2 & P1-5:A0:6:_NEWARK-NRS POLE 2	P6	N-1/N-1	<100	<100	<100	119	<100	<100	<100	100	<100	<100	<100	<100	Under review
30735 METCALF 230 30042 METCALF 500 11 1	P1-3:A0:13: METCALF 500/230kV TB 13 & P1-3:A0:12: METCALF 500/230kV TB 12	P6	N-1/N-1	<100	<100	<100	137	<100	<100	<100	<100	<100	97	<100	<100	Mitigation in GBA local area assessment.
30735 METCALF 230 30042 METCALF 500 12 1	P1-3:A0:13:_METCALF 500/230kV TB 13 & P1-3:A0:11:_METCALF 500/230kV TB 11	P6	N-1/N-1	<100	<100	<100	140	<100	<100	<100	<100	<100	100	<100	<100	Mitigation in GBA local area assessment.
30735 METCALF 230 30042 METCALF 500 13 1	P1-3:A0:12:_METCALF 500/230kV TB 12 & P1-3:A0:11:_METCALF 500/230kV TB 11	P6	N-1/N-1	<100	<100	<100	143	<100	<100	<100	<100	<100	100	<100	<100	Mitigation in GBA local area assessment.
30735 METCALF 230 30755 MOSSLNSW 230 1 1	P1-2:A0:14:_METCALF-MOSSLANDING 500KV [6050] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	126	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor

30735 METCALF 230 30755 MOSSLNSW 230 2 1	P1-2:A0:14:_METCALF-MOSSLANDING 500KV [6050] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	126	<100	<100	<100	<100	<100	<100	<100	<100	Continue to monitor
30755 MOSSLNSW 230 30797 LASAGUILASS 230 2 1	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	148	<100	<100	Sensitivity Only
30755 MOSSLNSW 230 30798 LASAGLSRCTR 230 1 1	P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040] & P1-2:A0:12:_TESLA-METCALF 500kV [6110]	P6	N-1/N-1	<100	<100	<100	96	<100	<100	<100	106	<100	<100	<100	<100	System redispatch
30761 FINKSWSTA 230 30670 WESTLEY 230 1 1	P1-2:A0:13:_TESLA-LOSBANOS 500kV [6100] & P1-2:A0:11:_TRACY-LOS BANOS 500kV [6130]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30763 QUINTO SS 230 30761 FINKSWSTA 230 1 1	P1-2:A0:13: TESLA-LOSBANOS 500kV [6100] & P1-2:A0:11: TRACY-LOS BANOS 500kV [6130]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30763 QUINTO SS 230 30765 LOSBANOS 230 1 1	P1-2:A0:13: TESLA-LOSBANOS 500kV [6100] & P1-2:A0:11: TRACY-LOS BANOS 500kV [6130]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30790 PANOCHE 230 30902 GATES E 230 1 1	P1-2:A0:28:_GATES-MANNING 500KV [0] & P1-2:A0:29:_MIDWAY-MANNING 500KV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	104	<100	<100	<100	<100	System redispatch
30790 PANOCHE 230 30902 GATES E 230 2 1	P1-3:A0:17:_GATES 500/230kV TB 12 & P1-3:A0:16:_GATES 500/230kV TB 11	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	104	<100	<100	<100	<100	System redispatch
30797 LASAGUILASS 230 30790 PANOCHE 230 1 1	P1-2:A0:12:_TESLA-METCALF 500kV [6110] & P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	103	<100	<100	Sensitivity Only
30797 LASAGUILASS 230 30790 PANOCHE 230 2 1	P1-2:A0:12:_TESLA-METCALF 500kV [6110] & P1-2:A0:15:_MOSSLANDING-LOSBANOS 500kV [6040]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	104	<100	<100	Sensitivity Only
30900 GATES D 230 30889 CALFLATSSS 230 1 1	P1-3:A0:20:_MIDWAY 500/230kV TB 13 & P1-2:A0:20:_GATES-MIDWAY 500KV [5990]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	<100	<100	System redispatch
300002 MN_RM_11 500 300003 MN_RM_12 500 1 1	P1-2:A0:3: CAPTJACK-OLINDA 500kV [0] & P1-2:A0:2: MALIN-ROUND MT 500kV 2[6020]	P6	N-1/N-1	<100	<100	<100	137	<100	<100	<100	108	<100	135	87	<100	Review existing RAS model
300003 MN_RM_12 500 30005 ROUND MT 500 1 1	P1-2:A0:3:_CAPTJACK-OLINDA 500kV [0] & P1-2:A0:2:_MALIN-ROUND MT 500kV 2[6020]	P6	N-1/N-1	<100	<100	<100	120	<100	<100	<100	95	<100	118	<100	<100	Review existing RAS model
300004 MN_RM_21 500 300005 MN_RM_22 500 2 1	P1-2:A0:3:_CAPTJACK-OLINDA 500kV [0] & P1-2:A0:1:_MALIN-ROUND MT 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	153	<100	<100	<100	121	<100	151	97	<100	Review existing RAS model
300005 MN_RM_22 500 300006 MN_RM_23 500 2 1	P1-2:A0:3:_CAPTJACK-OLINDA 500kV [0] & P1-2:A0:1:_MALIN-ROUND MT 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	155	<100	<100	<100	122	<100	151	99	<100	Review existing RAS model
300006 MN_RM_23 500 30005 ROUND MT 500 2 1	P1-2:A0:3:_CAPTJACK-OLINDA 500kV [0] & P1-2:A0:1:_MALIN-ROUND MT 500kV 1[0]	P6	N-1/N-1	<100	<100	<100	122	<100	<100	<100	96	<100	119	<100	<100	Review existing RAS model
300151 TM_VD_11 500 300152 TM_VD_12 500 1 1	P1-2:A0:24:_MIDWAY-VINCENT 500kV 2[0] & P1-2:A0:7:_TABLE MTN-TESLA 500kV [6080]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	101	<100	<100	Sensitivity Only
300153 TM_TS_11 500 300154 TM_TS_12 500 1 1	P1-2:A0:9: VACA DIXON-COLLINSVILLE 500kV [0] & P1-2:A0:8: OLINDA-TRACY 500kV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	100	108	<100	Sensitivity Only
300301 VD_TS_11 500 30040 TESLA 500 1 1	P1-2:A0:8:_OLINDA-TRACY 500kV [0] & P1-2:A0:7:_TABLE MTN-TESLA 500kV [6080]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	<100	<100	103	100	<100	Sensitivity Only
300551 GT_MW_11 500 30060 MIDWAY 500 1 1	P1-5:A0:6:_NEWARK-NRS POLE 2 & P1-2:A0:29:_MIDWAY-MANNING 500KV [0]	P6	N-1/N-1	<100	<100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	System redispatch
30731 LS ESTRS 230 38901 SSS 230 1 1	P7-1:4:_Newark-Nrs Bipole outage	P7	N-2	<100	<100	<100	118	<100	<100	<100	102	<100	<100	<100	<100	Mitigation in GBA local area assessment.

2024-2025 ISO Reliability Assessment - Preliminary Study Results
Study Area: **PG&E Bulk**
Low Voltages

Substation	ontingency (All and Worst F	Category	Category Description	Voltage PU (Baseline Scenarios)									Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2039 Summer Peak	2026 Spring Off-Peak	2029 Spring Off-Peak	2034 Spring Off-Peak	2039 Spring Off-Peak	2034 Winter Off- Peak	2026 SP Heavy Renewable	2026 SOP Heavy Renewable & Min Gas Gen	2029 SP High CEC Forecast	
NONE detected on Bulk System																

2024-2025 ISO Reliability Assessment - Preliminary Study Results

Study Area: **PG&E Bulk**

Voltage Deviation

Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)									Voltage PU (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2039 Summer Peak	2026 Spring Off-Peak	2029 Spring Off-Peak	2034 Spring Off-Peak	2039 Spring Off-Peak	2034 Winter Off- Peak	2026 SP Heavy Renewable	2026 SOP Heavy Renewable & Min Gas Gen	2029 SP High CEC Forecast	
NONE over 8%																

2024-2025 ISO Reliability Assessment - Preliminary Study Results
Study Area: PG&E Bulk
Transient Stability

Contingency	Category	Category Description	2026-SOP	2029-HS	2034-HS	2026-SOP-HighRE	2029-HS-HighCEC	Potential Mitigation Solutions
P1_1-0. DIABLOCNYNSS GENERATOR	P1	L-1	no issues	no issues	N/A	no issues	N/A	No issue
P1_2-19. MIDWAY-VINCENT #1 500KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_2-2. TABLE MTN-VACA-DIX #1 500KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_2-20. MIDWAY-VINCENT #2 500KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_2-21. MIDWAY-WIRLWIND #3 500KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_2-3. TABLE MTN-TESLA #1 500KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_3-20. TABLE MTN RM_DRS #1 500/230KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_3-21. RM_DRS #2 500/230KV	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_4-3. TM_TS_11-TM_TS_12 #1 500KV SHUNT	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P1_4-5. LB_MW_13-MIDWAY #1 500KV SHUNT	P1	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P3_2-0. DIABLOCNYNSS GENERATOR & ROUND MT-RM_DRS #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-1. DIABLOCNYNSS GENERATOR & ROUND MT-RM_DRS #2 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-10. DIABLOCNYNSS GENERATOR & METCALF-MOSSLAND #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-11. DIABLOCNYNSS GENERATOR & MOSSLAND-LOSBANOS #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-12. DIABLOCNYNSS GENERATOR & LOSBANOS-GATES #3 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-13. DIABLOCNYNSS GENERATOR & LOSBANOS-GATES #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-14. DIABLOCNYNSS GENERATOR & LOSBANOS-MIDWAY #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-15. DIABLOCNYNSS GENERATOR & GATES-DIABLOCNYNSS #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-16. DIABLOCNYNSS GENERATOR & GATES-MIDWAY #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-17. DIABLOCNYNSS GENERATOR & DIABLOCNYNSS-MIDWAY #2 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-18. DIABLOCNYNSS GENERATOR & DIABLOCNYNSS-MIDWAY #3 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-19. DIABLOCNYNSS GENERATOR & MIDWAY-VINCENT #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-2. DIABLOCNYNSS GENERATOR & TABLE MTN-VACA-DIX #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-20. DIABLOCNYNSS GENERATOR & MIDWAY-VINCENT #2 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-21. DIABLOCNYNSS GENERATOR & MIDWAY-WIRLWIND #3 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-22. DIABLOCNYNSS GENERATOR & TABLE MTN-RM_DRS #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-23. DIABLOCNYNSS GENERATOR & TABLE MTN-RM_DRS #2 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-24. DIABLOCNYNSS GENERATOR & OLINDA-CAPTJACK #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-25. DIABLOCNYNSS GENERATOR & DALLASES-MOSSLAND #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-26. DIABLOCNYNSS GENERATOR & ROUND MT-MALIN #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-27. DIABLOCNYNSS GENERATOR & ROUND MT-MALIN #2 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-3. DIABLOCNYNSS GENERATOR & TABLE MTN-TESLA #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-4. DIABLOCNYNSS GENERATOR & OLINDA-TRACY #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-5. DIABLOCNYNSS GENERATOR & VACA-DIX-TESLA #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-6. DIABLOCNYNSS GENERATOR & TRACY-TESLA #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-7. DIABLOCNYNSS GENERATOR & TRACY-LOSBANOS #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-8. DIABLOCNYNSS GENERATOR & TESLA-METCALF #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_2-9. DIABLOCNYNSS GENERATOR & TESLA-LOSBANOS #1 500KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-0. DIABLOCNYNSS GENERATOR & OLINDA #1 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-1. DIABLOCNYNSS GENERATOR & TRACY #1 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-10. DIABLOCNYNSS GENERATOR & METCALF #11 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.

P3_3-11. DIABLOCNYNSS GENERATOR & METCALF #12 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-12. DIABLOCNYNSS GENERATOR & METCALF #13 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-13. DIABLOCNYNSS GENERATOR & MOSSLNSW #9 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-14. DIABLOCNYNSS GENERATOR & LOSBANOS #1 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-15. DIABLOCNYNSS GENERATOR & GATESBK11JCT #11 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-16. DIABLOCNYNSS GENERATOR & GATES F #12 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-17. DIABLOCNYNSS GENERATOR & MIDWAY-R11 #11 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-18. DIABLOCNYNSS GENERATOR & MIDWAY-R12 #12 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-19. DIABLOCNYNSS GENERATOR & MIDWAY-R13 #13 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-2. DIABLOCNYNSS GENERATOR & TRACY #2 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-20. DIABLOCNYNSS GENERATOR & RM_DRS #1 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-21. DIABLOCNYNSS GENERATOR & RM_DRS #2 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-3. DIABLOCNYNSS GENERATOR & ROUND MT #1 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-4. DIABLOCNYNSS GENERATOR & TABLE MTN5JT #5 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-5. DIABLOCNYNSS GENERATOR & VACA-DIX #11 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-6. DIABLOCNYNSS GENERATOR & VACA-DIX #12 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-7. DIABLOCNYNSS GENERATOR & TESLA E #2 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-8. DIABLOCNYNSS GENERATOR & TESLA D #4 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_3-9. DIABLOCNYNSS GENERATOR & TESLA C #6 500/230KV	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_4-0. DIABLOCNYNSS GENERATOR & TABLE MTN 500KV SHUNT	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_4-1. DIABLOCNYNSS GENERATOR & OLINDA 500KV SHUNT	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_4-2. DIABLOCNYNSS GENERATOR & TRACY 500KV SHUNT	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P3_4-3. DIABLOCNYNSS GENERATOR & METCALF 500KV SHUNT	P3	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	N/A	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-0. ROUND MT-FERN_RD #1 500KV & ROUND MT-RM_DRS #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-1. ROUND MT-FERN_RD #1 500KV & ROUND MT-MALIN #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-10. TABLE MTN-TESLA #1 500KV & TABLE MTN-RM_DRS #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-12. TABLE MTN-TESLA #1 500KV & VACA-DIX-TESLA #1 500K	P6	L-1	no issues	Potential WECC/NERC criteria violation	N/A	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-13. TABLE MTN-TESLA #1 500KV & TRACY-TESLA #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	NoSolv	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-14. TABLE MTN-TESLA #1 500KV & TESLA-METCALF #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	NoSolv	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-15. TABLE MTN-TESLA #1 500KV & TESLA-LOSBANOS #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	NoSolv	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-22. TABLE MTN-VACA-DIX #1 500KV & VACA-DIX-TESLA #1	P6	L-1	no issues	Potential WECC/NERC criteria violation	NoSolv	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-3. ROUND MT-RM_DRS #2 500KV & ROUND MT-MALIN #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-48. LOSBANOS-MIDWAY #1 500KV & GATES-MIDWAY #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-49. LOSBANOS-MIDWAY #1 500KV & DIABLOCNYNSS-MIDWAY #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-50. LOSBANOS-MIDWAY #1 500KV & DIABLOCNYNSS-MIDWAY #3 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-51. LOSBANOS-MIDWAY #1 500KV & MIDWAY-VINCENT #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-52. LOSBANOS-MIDWAY #1 500KV & MIDWAY-VINCENT #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-53. LOSBANOS-MIDWAY #1 500KV & MIDWAY-WIRLWIND #3 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-54. GATES-MIDWAY #1 500KV & DIABLOCNYNSS-MIDWAY #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-55. GATES-MIDWAY #1 500KV & DIABLOCNYNSS-MIDWAY #3 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-56. GATES-MIDWAY #1 500KV & MIDWAY-VINCENT #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-57. GATES-MIDWAY #1 500KV & MIDWAY-VINCENT #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.

P6_1_1-58. GATES-MIDWAY #1 500KV & MIDWAY-WIRLWIND #3 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-59. DIABLOCNYNSS-MIDWAY #2 500KV & DIABLOCNYNSS-MIDWAY 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-60. DIABLOCNYNSS-MIDWAY #2 500KV & MIDWAY-VINCENT #1 500kV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-61. DIABLOCNYNSS-MIDWAY #2 500KV & MIDWAY-VINCENT #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-62. DIABLOCNYNSS-MIDWAY #2 500KV & MIDWAY-WIRLWIND #3 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-63. DIABLOCNYNSS-MIDWAY #3 500KV & MIDWAY-VINCENT #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-64. DIABLOCNYNSS-MIDWAY #3 500KV & MIDWAY-VINCENT #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-65. DIABLOCNYNSS-MIDWAY #3 500KV & MIDWAY-WIRLWIND #3 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-66. MIDWAY-VINCENT #1 500KV & MIDWAY-VINCENT #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-67. MIDWAY-VINCENT #1 500KV & MIDWAY-WIRLWIND #3 500K	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-68. MIDWAY-VINCENT #2 500KV & MIDWAY-WIRLWIND #3 500K	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-7. TABLE MTN-VACA-DIX #1 500KV & TABLE MTN-RM_FERN-RD #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-72. OLINDA-TRACY #1 500KV & OLINDA-CAPTJACK #1 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-76. ROUND MT-RM_DRS #1 500KV & ROUND MT-RM_DRS #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-8. TABLE MTN-VACA-DIX #1 500KV & TABLE MTN-FERN-RD #2 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_1-9. TABLE MTN-TESLA #1 500KV & TABLE MTN-FERN-RD 500KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-13. TABLE MTN-VACA-DIX #1 500KV & VACA-DIX #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-2. ROUND MT-MALIN #1 500KV & ROUND MT #1 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-30. LOSBANOS-MIDWAY #1 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-31. GATES-MIDWAY #1 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-32. DIABLOCNYNSS-MIDWAY #2 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-33. DIABLOCNYNSS-MIDWAY #3 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-34. MIDWAY-VINCENT #1 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-35. MIDWAY-VINCENT #2 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-36. MIDWAY-WIRLWIND #3 500KV & MIDWAY #11 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-38. OLINDA-CAPTJACK #1 500KV & OLINDA #1 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-4. TABLE MTN-VACA-DIX #1 500KV & TABLE MTN #5 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-5. TABLE MTN-TESLA #1 500KV & TABLE MTN #5 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_2-8. TABLE MTN-TESLA #1 500KV & TESLA #2 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_3-0. TABLE MTN-VACA-DIX #1 500KV & TABLE MTN 500KV SHUNT	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_3-1. TABLE MTN-TESLA #1 500KV & TABLE MTN 500KV SHUNT	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_1_3-7. OLINDA-CAPTJACK #1 500KV & OLINDA 500KV SHUNT	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.
P6_2_2-5. TRACY #1 & #2 500/230KV	P6	L-1	no issues	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	no issues	Potential WECC/NERC criteria violation	Under review with PTO for fault clearing time and fault impedances.

2024-2025 ISO Reliability Assessment - Preliminary Study Results

Study Area: **PG&E Bulk**

Single Contingency Load Drop

Substation	ncy (All and	Category	Category Description	Amount of Load Drop (MW)									Amount of Load Drop (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2026 Summer Peak	2029 Summer Peak	2034 Summer Peak	2039 Summer Peak	2026 Spring Off-Peak	2029 Spring Off-Peak	2034 Spring Off- Peak	2039 Spring Off- Peak	2034 Winter Off- Peak	2026 SP Heavy Renewable	2026 SOP Heavy Renewable & Min Gas Gen	2029 SP High CEC Forecast	

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

2024-2025 ISO Reliability Assessment - Preliminary Study Results

Study Area: **PG&E Bulk**

Single Source Substation with more than 100 MW Load

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

No single source substation with more than 100 MW