

APPENDIX E: Contingencies on the ISO System that may Impact Adjacent Systems

Intentionally left blank

Table E-1: Contingency Information by Study Area

Study Area	Contingency Files	Contingency File Location
PG&E Bulk	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files > PGE 22-23 TPP Bulk Contingency Files
PG&E North Valley	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files>PGE 22-23 TPP NVLY Contingency Files
PG&E Central Valley	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files>PGE 22-23 TPP CVLY Contingency Files
PG&E Greater Bay Area	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files> PGE 22-23 TPP GBA Contingency Files
PG&E Greater Fresno	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files>PGE 22-23 GFA Contingency Files
PG&E Kern	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files>PGE 22-23 TPP Kern Contingency Files
PG&E Central Coast & Los Padres	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process >Contingency Files>PGE 22-23 CCLP Contingency Files
PG&E Humboldt	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process >Contingency Files>PGE 22-23 HUMB Contingency Files
PG&E North Coast & North Bay	See Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process >Contingency Files>PGE 22-23 NCNB Contingency Files
Southern CA	Table E-3: Consolidated Southern California Contingency List	Market Participant Portal ->Transmission Planning ->2022-2023 ISO Transmission Planning Process ->Contingency Files>

Table E-2: Northern California Contingency List

No.	Contingency	Category Description	Potentially Affected Adjacent Area/Zone
1	ROUND MT-MALIN #1 500KV LINE	P1	Area 40
2	TABLE MTN-TESLA #1 500KV LINE & TESLA-LOSBANOS #1 500KV	P6	Zone 322
3	TRACY-TESLA #1 500KV LINE & TRACY #1 500/230KV BANK	P6	Zone 325
4	ROUND MT #1 500/230KV TRANSFORMER	P1	Zone 325
5	TABLE MOUNTAIN 500/230KV & TESLA 500/230KV	P6	Zone 322
6	RM_DRS-ROUND MT #1 500KV LINE & RM_DRS-ROUND MT #2 500	P6	Zone 325
7	TABLE MTN #5 & #6 500/230KV BANK	P6	Zone 322
8	ROUND MT-MALIN #1 500KV LINE & ROUND MT-MALIN #2 500KV	P6	Area 40, Zone 300
9	ROUND MT-RM_DRS #1 500KV LINE & ROUND MT-MALIN #2 500KV	P6	Zone 300
10	ROUND MT-RM_DRS #1 500KV LINE & ROUND MT #1 500/230KV	P6	Zone 300

Table E-3: Consolidated Southern California Contingency List

No.	Contingency	Category Description	Description of RAS if Applicable	Potentially Affected Adjacent Area
Steady State Contingencies (OTG Format)				
1	line "PALOVRDE 500.00" "PV_CLRVR_11 500.00" "1" "1" 0 line "PV_CLRVR_11 500.00" "PV_CLRVR_12 500.00" "1" "1" 0 line "PV_CLRVR_12 500.00" "COLRIVER 500.00" "1" "1" 0	P1		Area 26, Area 21, Area 14, Area 15, Area 18, Area 19
2	line_100041 "Line ELDORDO 500.0 to LUGO 500.0 Circuit 1" line 24042 29240 "1" "1" 0 line 29240 29241 "1" "1" 0 line 29241 29242 "1" "1" 0 line 29242 29243 "1" "1" 0 line 29243 24086 "1" "1" 0	P1	Lugo-Victorville RAS	Area 26, Area 18
3	line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "2" 0	P1		Area 21, Area 14, Area 15, Area 19
4	line "ECO 500.00" "MIGUEL 500.00" "1" "1" 0 line "ECO 500.00" "MIGUEL 500.00" "1" "2" 0	P1	TL23040 IV 500 kV N-1 RAS tripping renewable generation in the greater IV area	Area 20, Area 21
5	line "OCOTILLO 500.00" "SUNCREST 500.00" "1" "1" 0 line "OCOTILLO 500.00" "SUNCREST 500.00" "1" "2" 0	P1	TL23040 IV 500 kV N-1 RAS tripping renewable generation in the greater IV area	Area 20, Area 21
6	line "OTAYMESA 230.00" "TJI-230 230.00" "1" "1" 0 line "OTAYMESA 230.00" "TJI-230 230.00" "1" "2" 0	P1		Area 20
7	line "IV PFC 230.00" " ROA-230 230.00" "1" "1" 0	P1		Area 20
8	line "OTAYMESA 230.00" "MLMS3TAP 230.00" "1" "1" 0 line "MIGUEL 230.00" " MLMS3TAP 230.00" "1" "1" 0 line "BAY BLVD 230.00" "MLMS3TAP 230.00" "1" "1" 0	P1	TL23041/TL23042 RAS tripping Otay Mesa and/or Pio Pico generation	Area 20
9	line "OTAYMESA 230.00" "MLSXTAP 230.00" "1" "1" 0 line "MIGUEL 230.00" "MLSXTAP 230.00" "1" "1" 0 line "SYCAMORE 230.00" "MLSXTAP 230.00" "1" "1" 0	P1	TL23041/TL23042 RAS tripping Otay Mesa and/or Pio Pico generation	Area 20
10	line "MIGUEL 230.00" "MIGUEL 500.00" "2" "1" 0	P1	Miguel BK 80/81 RAS tripping generation in the greater IV area	Area 20
11	tran "ELDORDO 500.00" "ELDORDO 230.00" "3" "0" "ELDOR 3T 13.80"	P1		Area 26, Area 18, Area 19
12	tran "ELDORDO 500.00" "ELDORDO 230.00" "4" "0" "ELDOR 4T 13.80"	P1		Area 26, Area 18, Area 19
13	tran "ELDORDO 500.00" "ELDORDO2 230.00" "5" "0" "ELDOR 5T 13.80"	P1	Ivanpah RAS	Area 26, Area 18, Area 19
14	line "LUGO 500.00" "LGO_MOHVE_11 500.00" "1" "1" 0 line "LGO_MOHVE_11 500.00" "LGO_MOHVE_12 500.00" "1" "1" 0 line "LGO_MOHVE_12 500.00" "LGO_MOHVE_13 500.00" "1" "1" 0 line "LGO_MOHVE_13 500.00" "LGO_MOHVE_14 500.00" "1" "1" 0 line "LGO_MOHVE_14 500.00" "MOHAVE 500.00" "1" "1" 0	P1		Area 26, Area 18, Area 19
15	line "MOHAVE 500.00" "ELDORDO 500.00" "1" "1" 0	P1		Area 26, Area 18, Area 19
16	line "PISGAH 230.00" "CIMAT1 230.00" "1" "1" 0 line "CIMAT1 230.00" "ELDORDO 230.00" "1" "1" 0	P1		Area 26
17	line "PISGAH 230.00" "CIMAT2 230.00" "2" "1" 0 line "CIMAT2 230.00" "ELDORDO 230.00" "2" "1" 0	P1		Area 26

18	line "ELDORDO2 230.00" "BOB SS 230.00" "1 " 1 0	P1		Area 26, Area 18, Area 19
19	line "PISGAH 230.00" "LUGO 230.00" "1 " 1 0	P1		Area 26
20	line "PISGAH 230.00" "CALCITE 230.00" "1 " 1 0	P1		Area 26
21	line "CALCITE 230.00" "LUGO 230.00" "1 " 1 0	P1		Area 26
22	line "TAP645 55.00" "NEVBD502 55.00" "1 " 1 0	P1		Area 18
23	line "CONTROL 115.00" "INYO 115.00" "1 " 1 0	P1		Area 26
24	line "CONTROL 115.00" "INYOKERN 115.00" "1 " 1 0	P1	Bishop RAS - trips Bishop area generation	Area 26
25	line "INYOKERN 115.00" "KRAMER 115.00" "1 " 1 0	P1		Area 26
26	line "TAP701 115.00" "KRAMER 115.00" "1 " 1 0 line "TAP701 115.00" "INYOKERN 115.00" "1 " 1 0 line "RANDSBRG 115.00" "TAP701 115.00" "1 " 1 0	P1		Area 26
27	line "CONTROL 115.00" "TAP710 115.00" "1 " 1 0 line "TAP710 115.00" "INYOKERN 115.00" "1 " 1 0 line "COSO 115.00" "TAP710 115.00" "1 " 1 0	P1	Bishop RAS - trips Bishop area generation	Area 26
28	line "NWEST 230.00" "DESERT VIEW 230.00" "1 " 1 0	P1		Area 18, Area 19
29	line "BOB SS 230.00" "MEAD S 230.00" "1 " 1 0	P1		Area 19, Area 26, Area 24, Area 18
30	line "AMARGOSA 138.00" "SANDY 138.00" "1 " 1 0	P1		Area 18
31	line "GAMEBIRD 138.00" "PAHRUMP 138.00" "1 " 1 0	P1	VEA's UVLS scheme	Area 18
32	isol "INNOVATION 138.00"	P1		Area 18
33	line "JACKASSF 138.00" "MERCYSW 138.00" "1 " 1 0	P1		Area 18
34	line "CONTROL 115.00" "INYO 115.00" "1 " 1 0 line "CONTROL 115.00" "TAP704 115.00" "1 " 1 0 line "CONTROL 115.00" "INYOKERN 115.00" "1 " 1 0 tran "CONTROL 115.00" "CONTROL 55.00" "3 " 0 "0.00" line "CONTROL 115.00" "OXBOW B 115.00" "1 " 1 0	P2		Area 26
35	line "CONTROL 115.00" "INYO 115.00" "1 " 1 0 line "CONTROL 115.00" "CSA DIAB 115.00" "1 " 1 0 line "CONTROL 115.00" "TAP710 115.00" "1 " 1 0 tran "CONTROL 115.00" "CONTROL 55.00" "1 " 0 "0.00" tran "CONTROL 115.00" "BSPHYD34 2.20" "1 " 0 "0.00" gen "BSPHYD34 2.20" "34 " 0	P2		Area 26
36	gen "IV GEN1 STG 21.00" "1 " 0 gen "IV GEN1 CTG2 18.00" "1 " 0 gen "IV GEN1 CTG3 18.00" "1 " 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1 " 1 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1 " 2 0	P3		Area 21, Area 14, Area 15, Area 18, Area 19
37	gen "OTAYMST1 16.00" "1 " 0 gen "OTAYMGT1 18.00" "1 " 0 gen "OTAYMGT2 18.00" "1 " 0 line "ECO 500.00" "MIGUEL 500.00" "1 " 1 0 line "ECO 500.00" "MIGUEL 500.00" "1 " 2 0 gen "MIGUEL A 17.50" "1 " 0 gen "MIGUEL B 17.50" "1 " 0	P3	TL23040 IV 500 kV N-1 RAS tripping renewable generation in the greater IV area	Area 20
38	line "VISTA 138.00" "PAHRUMP 138.00" "1 " 1 0 line "PAHRUMP 138.00" "GAMEBIRD 138.00" "1 " 1 0	P4	VEA's UVLS scheme	Area 18
39	tran "PAHRUMP 230.00" "PAHRUMP 138.00" "1 " 0 -1 line "PAHRUMP 138.00" "GAMEBIRD 138.00" "1 " 1 0	P4	VEA's UVLS scheme	Area 18
40	tran "PAHRUMP 230.00" "PAHRUMP 138.00" "1 " 0 -1 line "PAHRUMP 230.00" "BOB SS 230.00" "1 " 1 0	P4	VEA's UVLS scheme	Area 18

41	line "ELDORDO 500.0" "LUGO 500.0" "1" "1" 0 line "PALOVRDE 500.00" "COLRIVER 500.00" "1" "1" 0	P6	Lugo-Victorville RAS	Area 26
42	line "PALOVRDE 500.00" "PV_CLRVR_11 500.00" "1" "1" 0 line "PV_CLRVR_11 500.00" "PV_CLRVR_12 500.00" "1" "1" 0 line "PV_CLRVR_12 500.00" "COLRIVER 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0	P6		Area 26, Area 21, Area 14
43	line "MOHAVE 500.0" "ELDORDO 500.0" "1" "1" 0 line "MOHAVE 500.0" "LUGO 500.0" "1" "1" 0	P6	NVE RAS	Area 18
44	line "ECO 500.00" "MIGUEL 500.00" "1" "1" 0 line "ECO 500.00" "MIGUEL 500.00" "1" "2" 0 gen "MIGUEL A 17.50" "1" "0" gen "MIGUEL B 17.50" "1" "0" line "SUNCREST 230.00" "SYCAMORE 230.00" "1" "1" 0	P6	TL23054/ TL23055 RAS tripping renewable generation in the greater IV area	Area 20, Area 21
45	line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "2" 0 line "IMPRLVLY 230.00" "VEGA_SS 230.00" "1" "1" 0	P6		Area 21, Area 14
46	line "ECO 500.00" "MIGUEL 500.00" "1" "1" 0 line "ECO 500.00" "MIGUEL 500.00" "1" "2" 0 gen "MIGUEL A 17.50" "1" "0" gen "MIGUEL B 17.50" "1" "0" line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "2" 0	P6		Area 20, Area 21
47	line "OCOTILLO 500.00" "SUNCREST 500.00" "1" "1" 0 line "OCOTILLO 500.00" "SUNCREST 500.00" "1" "2" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "2" 0	P6		Area 20, Area 21
48	line "PALOVRDE 500.00" "PV_CLRVR_11 500.00" "1" "1" 0 line "PV_CLRVR_11 500.00" "PV_CLRVR_12 500.00" "1" "1" 0 line "PV_CLRVR_12 500.00" "COLRIVER 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "2" 0	P6		Area 14, Area 26, Area 21, Area 15, Area 18, Area 19
49	line "DELANEY 500.00" "DEL_CLRVR_11 500.00" "1" "1" 0 line "DEL_CLRVR_11 500.00" "DEL_CLRVR_12 500.00" "1" "1" 0 line "DEL_CLRVR_12 500.00" "COLRIVER 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 line "N.GILA 500.00" "IMPRLVLY 500.00" "1" "2" 0	P6		Area 14, Area 15, Area 18, Area 19
50	line "INYOKERN 115.00" "KRAMER 115.00" "1" "1" 0 line "TAP701 115.00" "KRAMER 115.00" "1" "1" 0 line "TAP701 115.00" "INYOKERN 115.00" "1" "1" 0 line "RANDSBRG 115.00" "TAP701 115.00" "1" "1" 0	P6		Area 26
51	line "DEVERS 500.00" "DVRS_RB_11 500.00" "1" "1" 0 line "DVRS_RB_11 500.00" "DVRS_RB_12 500.00" "1" "1" 0 line "DVRS_RB_12 500.00" "REDBLUFF 500.00" "1" "1" 0 line "DEVERS 500.00" "DVRS_RB_21 500.00" "2" "1" 0 line "DVRS_RB_21 500.00" "DVRS_RB_22 500.00" "2" "1" 0 line "DVRS_RB_22 500.00" "REDBLUFF 500.00" "2" "1" 0	P6 (NERC)/ WECC Common Corridor /Extreme	Colorado River Corridor RAS	Area 26, Area 21, Area 14, Area 15, Area 18, Area 19
52	line "COLRIVER 500.00" "REDBLUFF 500.00" "1" "1" 0 line "COLRIVER 500.00" "REDBLUFF 500.00" "2" "1" 0	P6 (NERC)/ WECC Common Corridor	Colorado River Corridor RAS	Area 14, Area 15, Area 18, Area 19
53	line "MOHAVE 500.0" "ELDORDO 500.0" "1" "1" 0 line "ELDORDO 500.0" "LUGO 500.0" "1" "1" 0	P6/Extreme	Lugo-Victorville RAS	Area 26, Area 14, Area 15, Area 18, Area 19
54	line "ECO 500.00" "MIGUEL 500.00" "1" "1" 0 line "ECO 500.00" "MIGUEL 500.00" "1" "2" 0 gen "MIGUEL A 17.50" "1" "0" gen "MIGUEL B 17.50" "1" "0" line "OCOTILLO 500.00" "SUNCREST 500.00" "1" "1" 0 line "OCOTILLO 500.00" "SUNCREST 500.00" "1" "2" 0	P6/Extreme	TL50003 Gen Drop RAS or TL50001 Gen Drop RAS tripping generation in the greater IV area and South of San Onofre Safety Net	Area 20, Area 21, Area 14, Area 15, Area 19
55	line "EAGLROCK 230.00" "SYLMAR S 230.00" "1" "1" 0	P7		Area 26

	line "SYLMAR S 230.00" "GOULD 230.00" "1 " 1 0			
56	line "OTAYMESA 230.00" "MLSXTAP 230.00" "1 " 1 0	P7	230 kV Otay Mesa Gen Drop RAS tripping Otay Mesa and Pio Pico generation	Area 20
	line "MIGUEL 230.00 " "MLSXTAP 230.00" "1 " 1 0			
	line "SYCAMORE 230.00" "MLSXTAP 230.00" "1 " 1 0			
	line "OTAYMESA 230.00" "MLMS3TAP 230.00" "1 " 1 0			
	line "MIGUEL 230.00 " "MLMS3TAP 230.00" "1 " 1 0			
	line "BAY BLVD 230.00" "MLMS3TAP 230.00" "1 " 1 0			
57	line "CVSUB230 230.00" "MIRAGE 230.00" "1 " 1 0	P7		Area 21
	line "RAMON 230.00" "MIRAGE 230.00" "1 " 1 0			
58	line "CONTROL 115.00" "TAP710 115.00" "1 " 1 0	P7	Bishop RAS - trips Bishop area generation	Area 26
	line "TAP710 115.00" "INYOKERN 115.00" "1 " 1 0			
	line "COSO 115.00" "TAP710 115.00" "1 " 1 0			
	line "CONTROL 115.00" "INYOKERN 115.00" "1 " 1 0			
59	line "INNOVATION 230.00" "DESERT VIEW 230.00" "1 " 1 0			
60	"tran 26094 24147 'G "' "OPEN" 1.25000 ""	P2/P4		Area 26
	"tran 26094 24147 'E "' "OPEN" 1.25000 ""			
61	"tran 26094 24147 'G "' "OPEN" 1.25000 ""	P2/P4		Area 26
	"tran 26094 24147 'F "' "OPEN" 1.25000 ""			
Stability Contingencies				
None identified				