

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

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Study Area: **PG&E Bulk**

Contingency files: See Contingency List

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process ->Contingency Files > PGE 21-22 TPP Bulk Contingency Files

Study Area: **PG&E North Valley**

Contingency files: See Contingency List

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process ->Contingency Files>PGE 21-22 TPP NVLY Contingency Files

Study Area: **PG&E Central Valley**

Contingency files: See Contingency List

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process ->Contingency Files>PGE 21-22 TPP CVLY Contingency Files

Study Area: **PG&E Greater Bay Area**

Contingency files: See contingency list

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process ->Contingency Files> PGE 21-22 TPP GBA Contingency Files

Study Area: **PG&E Greater Fresno**

Contingency files: See contingency list

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process ->Contingency Files>PGE 21-22 Fresno Contingency Files

Study Area: **PG&E Kern**

Contingency files: See Contingency List

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process ->Contingency Files>PGE 21-22 TPP Kern Contingency Files

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

Contingency files: See contingency list

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO
Transmission Planning Process >Contingency Files>PGE 21-22 CCLP Contingency Files

Study Area: **Consolidated Southern CA**

Contingency file location: Market Participant Portal ->Transmission Planning ->2021-2022 ISO Transmission Planning Process ->Contingency Files>

| 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_12500.00" "COLRIVER 500.00" "1 " 1 0 | P1 | | Area26, Area21, Area 14 |
| 2 | line_100041 "Line ELDORDO 500.0 to LUGO 500.0 Circuit1" 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 |
| 3 | line"N.GILA 500.00" "IMPRLVLY 500.00" "1 " 1 0 | P1 | | Area 21, Area 14 |
| 4 | line"ECO 500.00" "MIGUEL 500.00" "1 " 1 0 | P1 | TL23040IV 500kV N-1 RAS | Area 20, Area 21 |
| 5 | line"OCOTILLO 500.00" "SUNCREST 500.00" "1 " 1 0 | P1 | TL23040IV 500kV N-1 RAS | Area 20, Area 21 |
| 6 | line"OTAYMESA 230.00" "TJI-230 230.00" "1 " 1 0 | P1 | | Area 20 |
| 7 | line"IVPFC 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"BAYBLVD 230.00" "MLMS3TAP 230.00" "1 " 1 0 | P1 | RAS tripping Otay Mesa and/or Pio Pico generation | Area 20 |
| 9 | line"MIGUEL 230.00" "MIGUEL 500.00" "2 " 1 0 | P1 | Miguel Banks RAS shedding gen in the greater IV area | Area 20 |
| 10 | tran"ELDORDO 500.00" "ELDORDO 230.00" "3" 0"ELDOR3T 13.80" | P1 | | Area 26 |
| 11 | tran"ELDORDO 500.00" "ELDORDO 230.00" "4" 0"ELDOR4T 13.80" | P1 | | Area 26 |
| 12 | tran"ELDORDO 500.00" "ELDORDO2 230.00" "5 " 0 "ELDOR5T 13.80" | P1 | Ivanpah RAS | Area 26 |

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|----|--|----|--|---------------------------------------|
| 13 | 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 |
| 14 | line "MOHAVE 500.00" "ELDORDO 500.00" "1" "1" 0 | P1 | | Area 26 |
| 15 | line "PISGAH 230.00" "CIMAT1 230.00" "1" "1" 0 line "CIMAT1 230.00" "ELDORDO 230.00" "1" "1" 0 | P1 | | Area 26 |
| 16 | line "PISGAH 230.00" "CIMAT2 230.00" "2" "1" 0 line "CIMAT2 230.00" "ELDORDO 230.00" "2" "1" 0 | P1 | | Area 26 |
| 17 | line "ELDORDO2 230.00" "BOB SS 230.00" "1" "1" 0 | P1 | | Area 26, Area 18 |
| 18 | line "PISGAH 230.00" "LUGO 230.00" "1" "1" 0 | P1 | | Area 26 |
| 19 | line "PISGAH 230.00" "CALCITE 230.00" "1" "1" 0 | P1 | | Area 26 |
| 20 | line "CALCITE 230.00" "LUGO 230.00" "1" "1" 0 | P1 | | Area 26 |
| 21 | line "TAP645 55.00" "NEVBD502 55.00" "1" "1" 0 | P1 | | Area 18 |
| 22 | line "CONTROL 115.00" "INYO 115.00" "1" "1" 0 | P1 | | Area 26 |
| 23 | line "CONTROL 115.00" "INYOKERN 115.00" "1" "1" 0 | P1 | Bishop RAS - trips Bishop area generation | Area 26 |
| 24 | line "INYOKERN 115.00" "KRAMER 115.00" "1" "1" 0 | P1 | | Area 26 |
| 25 | 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 |
| 26 | 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 |
| 27 | line "NWEST 230.00" "DESERT VIEW 230.00" "1" "1" 0 | P1 | | Area 18 |
| 28 | line "BOBSS 230.00" "MEAD S 230.00" "1" "1" 0 | P1 | | Area 19, Area 26, Area 24, Area 18 |
| 29 | line "AMARGOSA 138.00" "SANDY 138.00" "1" "1" 0 | P1 | | Area 18 |
| 30 | line "GAMEBIRD 138.00" "PAHRUMP 138.00" "1" "1" 0 | P1 | VEA's UVLS scheme | Area 18 |
| 31 | isol "INNOVATION 138.00" | P1 | | Area 18 |
| 32 | line "JACKASSF 138.00" "MERCYSW 138.00" "1" "1" 0 | P1 | | Area 18 |
| 33 | 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 |

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|----|---|----|-------------------------------------|---------------------------|
| 34 | line"CONTROL 115.00" "INYO 115.00" "1" "1" 0 line"CONTROL 115.00" "CSADIAB 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 |
| 35 | gen"IVGEN1STG 21.00" "1" "0" gen"IVGEN1CTG2 18.00" "1" "0" gen"IVGEN1CTG3 18.00" "1" "0" line"N.GILA 500.00" "IMPRLVLY 500.00" "1" "1" 0 | P3 | | Area 21, Area 14 |
| 36 | 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 gen"MIGUELA 17.50" "1" "0" gen"MIGUELB 17.50" "1" "0" | P3 | TL23040IV 500kVN-1 RAS | Area 20 |
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | line"ECO 500.00" "MIGUEL 500.00" "1" "1" 0 gen"MIGUELA 17.50" "1" "0" gen"MIGUELB 17.50" "1" "0" line"SYCAMORE TP1 230.00" "SYCAMORE 230.00" "1" "1" 0 line"SUNCREST TP1 230.00" "SYCAMORE TP1 230.00" "1" "1" 0 line"SUNCREST TP1 230.00" "SYCAMORE TP1" "2" "1" 0 line"SUNCREST 230.00" "SUNCREST TP1 230.00" "1" "1" 0 | P6 | Suncrest-Sycamore 230kV GenDrop RAS | Area 20, Area 21 |

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|----|--|--|--|------------------------------|
| 44 | line"N.GILA 500.00" "IMPRLVLY 500.00" "1 " 1 0 line"IMPRLVLY 230.00" "VEGA_SS 230.00" "1 " 1 0 | P6 | | Area 21, Area 14 |
| 45 | line"ECO 500.00" "MIGUEL 500.00" "1 " 1 0 gen"MIGUELA 17.50" "1 " 0 gen"MIGUELB 17.50" "1 " 0 line"N.GILA 500.00" "IMPRLVLY 500.00" "1 " 1 0 | P6 | RAS shedding generation in the greater IV area | Area 20, Area 21 |
| 46 | line"OCOTILLO 500.00" "SUNCREST 500.00" "1 " 1 0 line"N.GILA 500.00" "IMPRLVLY 500.00" "1 " 1 0 | P6 | IV Gen Shedding RAS | Area 20, Area 21 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 50 | 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 |
| 51 | 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 |

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|----|--|------------|--|---------------------------|
| 52 | line"ECO 500.00" "MIGUEL 500.00" "1" 10 gen"MIGUEL A 17.50" "1" 0 gen"MIGUEL B 17.50" "1" 0 line"OCOTILLO 500.00" "SUNCREST 500.00" "1" 10 | P6/Extreme | San Diego 500kV Gen Drop RAS, San Diego Safety Net | Area 20, Area 21, Area 14 |
| 52 | line"EAGLROCK 230.00" "SYLMARS 230.00" "1" 10 line"SYLMARS 230.00" "GOULD 230.00" "1" 10 | P7 | | Area 26 |
| 53 | line"OTAYMESA 230.00" "MLSXTAP 230.00" "1" 10 line"MIGUEL 230.00" "MLSXTAP 230.00" "1" 10 line"SYCAMORE 230.00" "MLSXTAP 230.00" "1" 10 line"OTAYMESA 230.00" "MLMS3TAP 230.00" "1" 10 line"MIGUEL 230.00" "MLMS3TAP 230.00" "1" 10 line"BAYBLVD 230.00" "MLMS3TAP 230.00" "1" 10 | P7 | RAS tripping Otay Mesay and/or Pio Pico generation | Area 20 |
| 54 | line"CVSUB230 230.00" "MIRAGE 230.00" "1" 10 line"RAMON 230.00" "MIRAGE 230.00" "1" 10 | P7 | | Area 21 |
| 55 | line"CONTROL 115.00" "TAP710 115.00" "1" 10 line"TAP710 115.00" "INYOKERN 115.00" "1" 10 line"COSO 115.00" "TAP710 115.00" "1" 10 line"CONTROL 115.00" "INYOKERN 115.00" "1" 10 | P7 | Bishop RAS - trips Bishop area generation | Area 26 |
| 56 | line"INNOVATION 230.00" "DESERT VIEW 230.00" "1" 10 | | | |
| 57 | "tran 26094 24147 'G' " "OPEN" 1.25000 "" "tran 26094 24147 'E' " "OPEN" 1.25000 "" | P2/P4 | | Area 26 |
| 58 | "tran 26094 24147 'G' " "OPEN" 1.25000 "" "tran 26094 24147 'F' " "OPEN" 1.25000 "" | P2/P4 | | Area 26 |
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| | Stability Contingencies | | | |
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| | None identified | | | |