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

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2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: PG&E Bulk

Contingency files: Switch_PGE_Bulk.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)	Contingency Name
1	CptJ_Olinda_ns_slo.swt	N-1	shunt capacitor insertion on Table Mtn and/or Malin if low voltages	Captain Jack- Olinda 500 kV, flow North to South
2	CptJ_Olinda_sn_slo.swt	N-1		Captain Jack- Olinda 500 kV, flow South to North
3	Diablo-g2.swt	G-2	FACRI if low voltages	2 Diablo Canyon units
4	Malin-RndMt-dlo-ns-2400_17.swt	N-2	NW generation drop, insertion of shunt capacitors, removal of reactors	Malin-Round Mtn 500 kV # 1 &2, several RAS options
5	Malin-RndMt-dlo-ns-2400_20.swt	N-2		
6	Malin-RndMt-dlo-ns-2400_25.swt	N-2		
7	Malin-RoundMt-1-slo.swt	N-1	shunt capacitor insertion if low voltages	Malin-Round Mtn 500 kV # 1
8	Malin-RoundMt-2-slo.swt	N-1		Malin-Round Mtn 500 kV # 2
9	LosBanosNorth-dlo-sn.swt	N-2	load and generation tripping	500 kV double line outage north of Los Banos, several RAS options
10	LosBanosNorth-dlo-sn_1.swt	N-2	load and generation tripping	
11	LosBanosNorth-dlo-sn_5grp.swt	N-2	load and generation tripping	
12	LosBanosSouth-dlo-sn_1.swt	N-2	load and generation tripping	500 kV double line outage south of Los Banos, several RAS options
13	LosBanosSouth-dlo-sn_2.swt	N-2	load and generation tripping	
14	MidwayNorth-dlo-sn.swt	N-2	load and generation tripping	500 kV double outage North of Midway
15	NESE.swt	system separation	load and generation tripping, opening ties	Northeast/Southeast system separation
16	PaloVerde-g2-OL-MA-RAS.swt	G-2	load tripping in Arizona	outage of 2 Palo Verde units
17	PaloVerde-g2-OL-MA-RAS_sn.swt	G-2		
18	PDCI-NS-bipolar-2700_17.swt	DC bi-pole	generation tripping, shunt capacitors insertion	PDCI bi-pole outage with several RAS options
19	PDCI-NS-bipolar-2700_20.swt			
20	PDCI-NS-bipolar-2700_25.swt			
21	PDCI-NS-bipolar-noRAS.swt			
22	PDCI-NS-monopolar.swt	DC-monopole		PDCI mono-pole outage
23	RoundMt-TableMt-dlo-ns-2400_17.swt	N-2	generation tripping, shunt capacitors insertion	Round Mtn-Table Mtn 500 kV # 1&2, several RAS options
24	RoundMt-TableMt-dlo-ns-2400_20.swt	N-2		
25	RoundMt-TableMt-dlo-ns-2400_25.swt	N-2		
26	TableMtSouth-dlo-ns-2400_17.swt	N-2	generation tripping, shunt capacitors insertion	500 kV double line outage south of Table Mtn, several RAS options
27	TableMtSouth-dlo-ns-2400_20.swt	N-2		
28	TableMtSouth-dlo-ns-2400_25.swt	N-2		
29	TeslaNorth-dlo-ns-2400_17.swt	N-2	generation tripping, shunt capacitors insertion	500 kV double line outage north of Tesla, several RAS options
30	TeslaNorth-dlo-ns-2400_20.swt	N-2		
31	TeslaNorth-dlo-ns-2400_25.swt	N-2		

2016-2017 ISO Transmission Planning Process

Contingencies on the ISO System which may impact Adjacent Systems

Study Area: PG&E Humboldt

Contingency files:

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	None		

2016-2017 ISO Transmission Planning Process

Contingencies on the ISO System which may impact Adjacent Systems

Study Area: PG&E North Coast & North Bay

Contingency files:

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	None		

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: PG&E North Valley

Contingency files: See Contigency List
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	a16_System_1in5_2018_A3_P1_Complete	P1	
2	a16_System_1in5_2021_A3_P1_Complete	P1	
3	a16_System_1in5_2026_A3_P1_Complete	P1	
4	a16_System_1in5_2018_A3_P2-1	P2-1	
5	a16_System_1in5_2021_A3_P2-1	P2-1	
6	a16_System_1in5_2026_A3_P2-1	P2-1	
7	a16_System_1in5_2018_A3_P2	P2	
8	a16_System_1in5_2021_A3_P2	P2	
9	a16_System_1in5_2026_A3_P2	P2	
10	a16_System_1in5_2018_A3_p5-5	P5-5	
11	a16_System_1in5_2021_A3_p5-5	P5-5	
12	a16_System_1in5_2026_A3_p5-5	P5-5	
13	a16_System_1in5_2018_A3_P7-1	P7	
14	a16_System_1in5_2021_A3_P7-1	P7	
15	a16_System_1in5_2026_A3_P7-1	P7	

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: PG&E Central Valley

Contingency files: See Contigency List
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	CVLY-P1-2018_RE.otg	P1	
2	CVLY-P2-2018_RE.otg	P2	
3	CVLY-P2-1-2018_RE.otg	P2-1	
4	CVLY-P5-5-2018_RE.otg	P5-5	
5	CVLY-P7-2018_RE.otg	P7	
6	CVLY-P1-2021_RE.otg	P1	
7	CVLY-P2-2021_RE.otg	P2	
8	CVLY-P2-1-2021_RE.otg	P2-1	
9	CVLY-P5-5-2021_RE.otg	P5-5	
10	CVLY-P7-2021_RE.otg	P7	
11	CVLY-P1-2026_RE.otg	P1	
12	CVLY-P2-2026_RE.otg	P2	
13	CVLY-P2-1-2026_RE.otg	P2-1	
14	CVLY-P5-5-2026_RE.otg	P5-5	
15	CVLY-P7-2026_RE.otg	P7	

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: PG&E Greater Bay Area

Contingency files: See contingency list

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files>GBA Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	GBA-P2-2026_RE.otg	P2	
2	GBA-P5-5-2021_RE.otg	P5-5	
3	GBA-P1-2021_RE.otg	P1	
4	GBA-P2-2018_RE.otg	P2	
5	GBA-P7-2026_RE.otg	P7	
6	GBA-P7-2021_RE.otg	P7	
7	GBA-P2-1-2018_RE.otg	P2-1	
8	GBA-P1-2026_RE.otg	P1	
9	GBA-P2-1-2021_RE.otg	P2-1	
10	GBA-P2-1-2026_RE.otg	P2-1	
11	GBA-P7-2018_RE.otg	P7	
12	GBA-P5-5-2018_RE.otg	P5-5	
13	GBA-P5-5-2026_RE.otg	P5-5	
14	GBA-P1-2018_RE.otg	P1	
15	GBA-P2-2021_RE.otg	P2	

Contingencies on the ISO System which may impact Adjacent Systems

Study Area: PG&E Greater Bay Area

Contingency files: See contingency list

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files>GBA Contingency Files

No	Contingency	Category Description	Description of SPS (if any)

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: PG&E Greater Fresno

Contingency files: SJVL Contingency Files
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	a16_System_1in5_2018_A14_13_P1_Complete	P1	
2	a16_System_1in5_2021_A14_A13_P1_Complete	P1	
3	a16_System_1in5_2026_A14_A13_P1_Complete	P1	
4	a16_System_1in5_2018_A14_13_P2-1	P2-1	
5	a16_System_1in5_2021_A14_A13_P2-1	P2-1	
6	a16_System_1in5_2026_A14_A13_P2-1	P2-1	
7	a16_System_1in5_2018_A14_13_P2	P2	
8	a16_System_1in5_2021_A14_A13_P2	P2	
9	a16_System_1in5_2026_A14_A13_P2	P2	
10	a16_System_1in5_2018_A14_A13_p5-5	P5-5	
11	a16_System_1in5_2021_A14_A13_p5-5	P5-5	
12	a16_System_1in5_2026_A14_A13_p5-5	P5-5	
13	a16_System_1in5_2018_A14_13_P7-1	P7	
14	a16_System_1in5_2021_A14_A13_P7-1	P7	
15	a16_System_1in5_2026_A14_13_P7-1	P7	

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: PG&E Kern

Contingency files: SJVL Contingency Files
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	NONE		

2016-2017 ISO Transmission Planning Process

Contingencies on the ISO System which may impact Adjacent Systems

Study Area: PG&E Central Coast

Contingency files:

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	None		

2016-2017 ISO Transmission Planning Process

Contingencies on the ISO System which may impact Adjacent Systems

Study Area: PG&E Los Padres

Contingency files:

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	None		

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE Bulk

Contingency files: ContingencyList_SCE_Bulk.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	Line MOENKOPI 500.0 to ELDORDO 500.0 Circuit 1	L-1	
2	Line PALOVRDE 500.0 to COLRIVER 500.0 Circuit 1	L-1	
3	Line LUGO 500.0 to VICTORVL 500.0 Circuit 1	L-1	
4	Line LUGO 500.0 to MOHAVE 500.0 Circuit 1	L-1	
5	Line MOHAVE 500.0 to ELDORDO 500.0 Circuit 1	L-1	
6	Line ELDORDO 500.0 to LUGO 500.0 Circuit 1	L-1	
7	Line DEVERS 500.0 to VALLEYSC 500.0 Circuit 1	L-1	West of Devers (WOD) RAS / Colorado Corridor RAS (future)
8	Line DEVERS 500.0 to VALLEYSC 500.0 Circuit 2	L-1	West of Devers (WOD) RAS / Colorado Corridor RAS (future)
9	Line DEVERS 500.0 to REDBLUFF 500.0 Circuit 1	L-1	Colorado Corridor RAS (future)
10	Line DEVERS 500.0 to REDBLUFF 500.0 Circuit 2	L-1	Colorado Corridor RAS (future)
11	Line COLRIVER 500.0 to REDBLUFF 500.0 Circuit 1	L-1	Colorado Corridor RAS (future)
12	Line COLRIVER 500.0 to REDBLUFF 500.0 Circuit 2	L-1	Colorado Corridor RAS (future)
13	Line SERRANO 500.0 to VALLEYSC 500.0 Circuit 1	L-1	Inland Impire RAS
14	Line N.GILA 500.0 to IMPRLVLY 500.0 Circuit 1	L-1	
15	Line MIDWAY 500.0 to VINCENT 500.0 Circuit 1	L-1	
16	Line MIDWAY 500.0 to VINCENT 500.0 Circuit 2	L-1	
17	Line MIDWAY 500.0 to WIRLWIND 500.0 Circuit 3	L-1	
18	Line LUGO 500.0 to VINCENT 500.0 Circuit 1	L-1	
19	Line LUGO 500.0 to VINCENT 500.0 Circuit 2	L-1	
20	Line DEVERS 500.0 to VALLEYSC 500.0 Circuit 1 & 2	L-2	West of Devers (WOD) RAS / Colorado Corridor RAS (future)
21	Line DEVERS 500.0 to REDBLUFF 500.0 Circuit 1 & 2	L-2	Colorado Corridor RAS (future)

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE Bulk

Contingency files: ContingencyList_SCE_Bulk.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
22	Line COLRIVER 500.0 to REDBLUFF 500.0 Circuit 1 & 2	L-2	Colorado Corridor RAS (future)
23	Line MIDWAY 500.0 to VINCENT 500.0 Circuit 1& 2	L-2	Path 26 RAS
24	Line MIDWAY 500.0 to VINCENT 500.0 Circuit 1& Line MIDWAY 500.0 to WIRLWIND 500.0 Circuit 3	L-2	Path 26 RAS
25	Line MIDWAY 500.0 to VINCENT 500.0 Circuit 2& Line MIDWAY 500.0 to WIRLWIND 500.0 Circuit 3	L-2	Path 26 RAS
26	Line LUGO 500.0 to VINCENT 500.0 Circuit 1 & 2	L-2	
Multiple	L-1/L-1 combinations of above L-1 contingencies	L-1/L-1	Same as above depending on the contingency

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE Tehachapi & Big Creek Corridor

Contingency files:
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	See contingency list for SCE Bulk system.		

None

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE North of Lugo

Contingency files: Reliab1415_SCE-NOL_Contingencies.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	line_19_Line CONTROL - NEVBD501 55.0 ck 1	N-1	
2	line_20_Line CONTROL - NEVBD502 55.0 ck 1	N-1	
3	line_21_Line CONTROL - INYO 115.0 ck 1	N-1	
4	line_22_Line CONTROL - INYOKERN 115.0 ck 1	N-1	Bishop RAS - trips Bishop area generation
5	line_26_Line INYOKERN - KRAMER 115.0 ck 1	N-1	
6	line_29_line KRAMER-INYOKERN-RANDSB 115 ck 1	N-1	Kramer RAS - trips partial or entire generation North of Kramer
7	line_46_line CONTROL-COSO-INYOKERN 115 ck 2	N-1	Bishop RAS - trips Bishop area generation
8	All common-mode and N-1-1 combinations that include the aforementioned facilities	N-2, Breaker failure, bus outages and N-1-1	

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE East of Lugo

Contingency files: Reliab1415_EOL-VEA_Contingencies.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	ELDORDO 500/230 kV Bank 3	N-1	
2	ELDORDO 500/230 kV Bank 4	N-1	
3	Eldorado2 220/500-kV Tran Bnk 5	N-1	
4	ELDORDO 500.0 to LUGO 500.0 Circuit 1	N-1	
5	LUGO 500.0 to MOHAVE 500.0 Circuit 1	N-1	
6	MOHAVE 500.0 to ELDORDO 500.0 Circuit 1	N-1	
7	PISGAH 230.0 to CIMA 230.0 to ELDORDO 230.0 Circuit 2	N-1	
8	PISGAH 230.0 to CIMA 230.0 to ELDORDO 230.0 Circuit 2	N-1	
9	ELDORDO2 230.0 to BOB SS 220.0 Circuit	N-1	
10	LUGO 230.0 to PISGAH 230.0 Circuit	N-1	
11	LUGO 230.0 to CALCITE 230.0 to PISGAH 230.0 Circuit	N-1	
12	All N-2 and N-1-1 combinations that include the aforementioned facilities	N-2, Breaker failure, bus outages and N-1-1	
13	P1_Eld-Cima-Pisgah-3PHfaultE	N-1	
14	P1_Eld-Cima-Pisgah-3PHfaultP	N-1	
15	P1_Lugo-Pisgah-3PHfaultL	N-1	
16	P1_Lugo-Pisgah-3PHfaultP	N-1	
17	P4_Eld-Cima-Pisgah_Lugo-Pisgah-1PHfaultP	Stuck breaker	
18	P4_Eld-Cima-Pisgah_CALCITE-Pisgah-1PHfaultP	Stuck breaker	
19	P4_Eld-Cima-Pisgah-1PHfaultE	Stuck breaker	
20	P4_Lugo-Pisgah-1PHfaultL	Stuck breaker	
21	P4_CAlCITE-Pisgah-1PHfaultL	Stuck breaker	
22	P5.5_Eldorado230	Bus outage	
23	Lugo-ELD-MH-500_RAS	N-1-1 with RAS	Lugo-Eldorado RAS

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE Eastern area

Contingency files: ContingencyList_SCE_Eastern.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	Line PALOVRDE 500.0 to COLRIVER 500.0 Ckt 1	L-1	
2	Line DEVERS 500.0 to VALLEYSC 500.0 Ckt 1	L-1	West of Devers (WOD) RAS / Colorado Corridor RAS (future)
3	Line DEVERS 500.0 to VALLEYSC 500.0 Ckt 2	L-1	West of Devers (WOD) RAS / Colorado Corridor RAS (future)
4	Line DEVERS 500.0 to REDBLUFF 500.0 Ckt 1	L-1	Colorado Corridor RAS (future)
5	Line DEVERS 500.0 to REDBLUFF 500.0 Ckt 2	L-1	Colorado Corridor RAS (future)
6	Line COLRIVER 500.0 to REDBLUFF 500.0 Ckt1	L-1	Colorado Corridor RAS (future)
7	Line COLRIVER 500.0 to REDBLUFF 500.0 Ckt 2	L-1	Colorado Corridor RAS (future)
8	Line DEVERS - MIRAGE 230 kV Ckt 1	L-1	
9	Line DEVERS - MIRAGE 230 kV Ckt 2	L-1	
10	Line MIRAGE - RAMON 230 kV Ckt 1	L-1	
11	Line CVSUB230 - MIRAGE 230 kV Ckt 1	L-1	
12	Line J.HINDS - MIRAGE 230 kV	L-1	Blythe Energy RAS
13	Line JHINDMWD - EAGLEMTN 230 kV	L-1	Blythe Energy RAS
14	Line EAGLEMTN - IRON MTN 230 kV	L-1	Blythe Energy RAS
15	CAMINO - GENE - IRON MTN - MEAD 230 KV	L-1	Blythe Energy RAS
16	Line BLYTHESC - EAGLEMTN 161 kV	L-1	Blythe Energy RAS
17	Line PARKER 230.0 to GENE 230.0 Ckt 1	L-1	
18	GenTie Buck Blvd - J.Hinds	L-1	
19	BLYTHE CCGT OUTAGE	G-1	
20	Tran DEVERS 500/230 1AA Bank	T-1	
21	Tran DEVERS 500/230 2AA Bank	T-1	
22	J.HINDS 25MVAR Shunt Reactor	N-1	
23	Bus Tie Breaker JHINDMWD - J.HINDS 230 kV	C.2	Blythe Energy RAS
24	Line DEVERS 500.0 to VALLEYSC 500.0 Ckt 1 & 2	L-2	West of Devers (WOD) RAS / Colorado Corridor RAS (future)
25	Line DEVERS 500.0 to REDBLUFF 500.0 Ckt 1 & 2	L-2	Colorado Corridor RAS (future)
26	Line COLRIVER 500.0 to REDBLUFF 500.0 Ckt 1 & 2	L-2	Colorado Corridor RAS (future)
27	Line DEVERS - MIRAGE 230 kV Ckt 1 & 2	L-2	
Multiple	N-1/N-1 combinations of above N-1 contingencies	N-1/N-1	Same as above depending on the contingency

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: SCE Eastern area

Contingency files: ContingencyList_SCE_Eastern.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)

2016-2017 ISO Transmission Planning Process

Contingencies on the ISO System which may impact Adjacent Systems

Study Area: SCE Metro

Contingency files: ContingencyList_SCE_Bulk-Metro.zip

Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
	None identified		

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: San Diego Area

Contingency files: ContingencyImpactListAdjacentSystems_SDGE_201
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
CAISO-1	Line From 15021 PALOVRDE to 24900 COLRIVER 500 kV Ckt 1	L-1	
CAISO-2	Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1	L-1	
CAISO-3	Line From 14012 DELANEY to 24900 COLRIVER 500 kV Ckt #1	L-1	
CAISO-4	Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1	L-1	SPS sheding generation in the greater IV area
CAISO-5	Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1	L-1	SPS sheding generation in the greater IV area
CAISO-6	Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1	L-1	SPS sheding generation in the greater IV area
CAISO-7	Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1	L-1	SPS sheding generation in the greater IV area
CAISO-8	Line From Sunrest To Sycamore 230 kC Ckt #1	L-1	Proposed SPS to open Ocotillo-Suncrest 500 kV line while sheding gen in the greater IV area
CAISO-9	Line From Sunrest To Sycamore 230 kC Ckt #2	L-1	Proposed SPS to open Ocotillo-Suncrest 500 kV line while sheding gen in the greater IV area
CAISO-10	Line From 22609 OTAYMESA To 20149 TJI-230 230 Ckt #1	L-1	
CAISO-11	TL23050 From IMPRLVLY To 20118 ROA-230 Ckt #1	L-1	
CAISO-12	Line From 22609 OTAYMESA To 22464 MIGUEL 230 kV Ckt #1	L-1	SPS tripping Otay Mesay and/or Pio Pico generation
CAISO-13	Line From 22609 OTAYMESA To 22464 MIGUEL 230 kV Ckt #2	L-1	SPS tripping Otay Mesay and/or Pio Pico generation
CAISO-14	Transformer Miguel 500/230 kV Bank 80	T-1	Proposed SPS to open Miguel Bank 81 while sheding gen in the greater IV area
CAISO-15	Transformer Miguel 500/230 kV Bank 81	T-1	Proposed SPS to open Miguel Bank 80 while sheding gen in the greater IV area
CAISO-16	Transformer Suncrest 500/230 kV Bank 80	T-1	Proposed SPS to open Suncrest Bank 81 while sheding gen in the greater IV area
CAISO-17	Transformer Suncrest 500/230 kV Bank 81	T-1	Proposed SPS to open Suncrest Bank 80 while sheding gen in the greater IV area

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: San Diego Area

Contingency files: ContingencyImpactListAdjacentSystems_SDGE_201
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
CAISO-18	P1T_50021_Xfmer IMPRLVLY 500 to IV BK82 MP 500 Ckt 1 0.00	T-1	
CAISO-19	P1T_50022_Xfmer IMPRLVLY 500 to IV BK81 MP 500 Ckt 1 0.00	T-1	
CAISO-20	TDM Power PLANT	G-1	
CAISO-21	Otay Mesa Power PLANT	G-1	
CAISO-22	P4CB_IV-8022_IV 8022 50002 & BK81 CB	Breaker Fault/Stuck Breaker	
CAISO-23	TDM Power PLANT - AND - Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1	G-1/L-1	
CAISO-24	Otay Mesa Power PLANT - AND - Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1	G-1/L-1	
CAISO-25	Otay Mesa Power PLANT - AND - Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1	G-1/L-1	SPS sheding generation in the greater IV area
CAISO-26	Otay Mesa Power PLANT - AND - Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1	G-1/L-1	SPS sheding generation in the greater IV area
CAISO-27	Otay Mesa Power PLANT - AND - Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1	G-1/L-1	SPS sheding generation in the greater IV area
CAISO-28	Otay Mesa Power PLANT - AND - Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1	G-1/L-1	SPS sheding generation in the greater IV area
CAISO-29	Line From 15021 PALOVRDE to 24900 COLRIVER 500 kV Ckt 1--AND--Line From 14012 DELANEY to 24900 COLRIVER 500 kV Ckt #1	L-1-1	
CAISO-30	Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1--AND--Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1 without the IV phase shifting transformers	L-1-1	IV Gen Sheding SPS and possible cross tripping the tie with CFE
CAISO-31	Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1--AND--Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1 without the IV phase shifting transformers	L-1-1	IV Gen Sheding SPS and possible cross tripping the tie with CFE
CAISO-32	Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1--AND--Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1 without the IV phase shifting transformers	L-1-1	IV Gen Sheding SPS and possible cross tripping the tie with CFE
CAISO-33	Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1--AND--Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1 without the IV phase shifting transformers	L-1-1	IV Gen Sheding SPS and possible cross tripping the tie with CFE

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: San Diego Area

Contingency files: ContingencyImpactListAdjacentSystems_SDGE_201
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
CAISO-34	Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1--AND--Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1 with the IV phase shifting transformers	L-1-1	SPS sheding generation in the greater IV area
CAISO-35	Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1--AND--Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1 with the IV phase shifting transformers	L-1-1	SPS sheding generation in the greater IV area
CAISO-36	Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1--AND--Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1 with the IV phase shifting transformers	L-1-1	SPS sheding generation in the greater IV area
CAISO-37	Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1--AND--Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1 with the IV phase shifting transformers	L-1-1	SPS sheding generation in the greater IV area
CAISO-38	Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1--AND--Line From 22930 ECO to 22468 MIGUEL 500 kV Ckt #1	L-1-1	IV Gen Sheding SPS
CAISO-39	Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1--AND--Line From 23310 OCOTILLO To 22885 SUNCREST 500 kV Ckt #1	L-1-1	IV Gen Sheding SPS
CAISO-40	Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1--AND--Line From 22360 IMPRLVLY to 22930 ECO 500 kV Ckt #1	L-1-1	IV Gen Sheding SPS
CAISO-41	Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1--AND--Line From 22360 IMPRLVLY to 23310 OCOTILLO 500 kV Ckt #1	L-1-1	IV Gen Sheding SPS
CAISO-42	Line From 15021 PALOVRDE to 24900 COLRIVER 500 kV Ckt 1--AND--Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1	L-1-1	
CAISO-43	Line From 15021 PALOVRDE to 24900 COLRIVER 500 kV Ckt 1--AND--Line From 14012 DELANEY to 24900 COLRIVER 500 kV Ckt #1	L-1-1	
CAISO-44	Line From 14012 DELANEY to 24900 COLRIVER 500 kV Ckt #1--AND--Line From 22536 N.GILA to 22360 IMPRLVLY 500 kV Ckt #1	L-1-1	
CAISO-45	P1T_50021_Xfmer IMPRLVLY 500 to IV BK82 MP 500 Ckt 1 0.00 and P1T_50022_Xfmer IMPRLVLY 500 to IV BK81 MP 500 Ckt 1 0.00	T-1-1	Imperial Valley BK 80 SPS shedding IV generation
CAISO-46	Line From 22609 OTAYMESA To 22466 MIGUEL 230 kV Ckt #1-- AND -- Line From 22609 OTAYMESA To 22467 MIGUEL 230 kV Ckt #2	L-2	SPS tripping Otay Mesay and Pio Pico generation
CAISO-47	Line From 24900 COLRIVE To 24374 REDBLUFF 500 kV Ckt #1-- AND -- Ckt #2	L-2	SCE Eastern Gen Sheding SPS

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: San Diego Area

Contingency files: ContingencyImpactListAdjacentSystems_SDGE_201
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
CAISO-48	Line From 24801 DEVERS To 24374 REDBLUFF 500 kV Ckt #1-- AND -- Ckt #2	L-2	SCE Eastern Gen Sheding SPS
CAISO-49	N-2 Mirage-Ramon 230 kV and Mirage-Coachella Valley 230 kV	L-2	

2016-2017 ISO Transmission Planning Process
Contingencies on the ISO System which may impact Adjacent Systems
Study Area: Valley Electric Association

Contingency files: Reliab1415_EOL-VEA_Contingencies.zip
Contingency file location: Market Participant Portal ->Transmission Planning ->2016/2017 ISO Transmission Planning Process ->Contingency Files

No	Contingency	Category Description	Description of SPS (if any)
1	NWEST -DESERT VIEW -INNOVATION 230kV Circuit 1	N-1	
2	MEAD S -BOB SS 230kV Circuit 1	N-1	
3	ELDORDO2 -BOB SS 230kV Circuit 1	N-1	
4	BOB SS-PAHRUMP 230kV Circuit 1	N-1	
5	PAHRUMP -INNOVATION 230kV Circuit 1	N-1	
6	AMARGOSA -SANDY 138kV Circuit 1	N-1	
7	PAHRUMP-GAMEBIRD 138kV Circuit 1	N-1	
8	INNOVATION -MERCRYSW 138 Circuit 1	N-1	
9	MERCRYSW-JACKASSF -LTHRPWLS 138kV Circuit 1	N-1	
10	PAHRUMP-VISTA 138kV Circuit 1	N-1	
11	PAHRUMP 138/230kV Tran Bnk 1	N-1	
12	PAHRUMP 138/230kV Tran Bnk 2	N-1	
13	INNOVATION 230/138kV Tran Bnk 1	N-1	
14	All common-mode and N-1-1 combinations that include the aforementioned facilities	N-2, Breaker failure, bus outages and N-1-1	VEA local UVLS
15	P5-PAHRUMP-PA212	Stuck breaker	VEA local UVLS
16	P5-SANDY-SA222	Stuck breaker	VEA local UVLS
17	P5-GAMEBIRD-GB222	Stuck breaker	VEA local UVLS
18	P5-VISTA-VI212	Stuck breaker	VEA local UVLS
19	P5-VALLEY-SWITCH-VS222	Stuck breaker	VEA local UVLS
20	P5-LATHROP-SWITCH-LS212	Stuck breaker	VEA local UVLS