



ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)								Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift	
T01	22884 WARNERS 69.0 22688 RINCON 69.0 1 1	TL0637_TL0637 SANTYSBL - CREELMAN ck 1	P1	N-1						98.93		105.21	Warners SPS to open TL685
T02	22020 AVOCADO 69.0 22508 MNSRATTP 69.0 1 1	TL0698B_TL0698B MONSRATE-MNSRATTP ck 1	P2.1	N-1	90.03				103.54				Congestion Management, Generation Re-dispatch
T03	22740 SANYSDRO 69.0 22616 OTAYLKTP 69.0 1 1	TL0623A_TL0623A OTAY-OTAY TP ck 1	P2.1	N-1	90.62	91.56				100.51	93.43	100.61	Congestion Management, Generation Re-dispatch
T04	22604 OTAY 69.0 22616 OTAYLKTP 69.0 1 1	TL06964_TL06964 MIGUEL-SALT CREEK 69 ck 1 AND CALPK-BD_ CALPK_BD 13.80	P3	N-1, G-1			165.37						Operation Procedure, re-dispatch generation after 1st contingency
T05	22604 OTAY 69.0 22616 OTAYLKTP 69.0 1 1	TL0623_TL0623A B C: IB-OTAY-SYO ck 1 AND CALPK-BD_ CALPK_BD 13.80	P3	N-1, G-1			121.21						Operation Procedure, re-dispatch generation after 1st contingency
T06	22604 OTAY 69.0 22616 OTAYLKTP 69.0 1 1	TL06910_TL06910 SALT CREEK - BORDER ck 1 AND CALPK-BD_ CALPK_BD 13.80	P3	N-1, G-1			113.31						Operation Procedure, re-dispatch generation after 1st contingency
T07	22708 SANLUSRY 69.0 22582 OCEAN RANCH 69.0 1 1	TL0693_TL0693 MELROSE - SANLUSRY ck 1 AND PA_GENS_PA GENS	P3	N-1, G-1						103.94	95.92	101.15	Operation Procedure, preferred resources after 1st contingency, no overload on 30- min rating
T08	22841 LAGNA NL TAP 138 22396 LAGNA NL 138 1 1	PI-TCB_PICO TCB 138 kV 13836/46/16/48	P4	Fault Plus Stuck Breaker	110.59						115.90		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T09	22844 TALEGA 230 22840 TALEGA 138 1 1	TA1-5W_TALEGA 138KV 5W CB	P4	Fault Plus Stuck Breaker	99.54						104.23		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T10	22841 LAGNA NL TAP 138 22396 LAGNA NL 138 1 1	PI1-CB_PICO 138KV CB	P4	Fault Plus Stuck Breaker	98.93						103.67		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T11	22844 TALEGA 230 22840 TALEGA 138 1 1	TA2-4W_TALEGA 230KV 4W CB	P4	Fault Plus Stuck Breaker	98.19						103.45		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T12	22844 TALEGA 230 22840 TALEGA 138 3 1	TA1-5W_TALEGA 138KV 5W CB	P4	Fault Plus Stuck Breaker	97.67						102.27		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim



ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)								Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift	
T13	22844 TALEGA 230 22840 TALEGA 138 3 1	TA2-4W_TALEGA 230KV 4W CB	P4	Fault Plus Stuck Breaker	96.35						101.50		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T14	N/A	TL0635_TL0635 CREELMAN - LOSCOCHS ck 1 AND TL06917_TL06917 CREELMAN-SYCAMORE ck 1	P6	N-1-1	Diverge	Diverge	Diverge			Diverge	Diverge	Diverge	Operation Procedure to radialize Creelman after 1st contingency, TL 682 RAS will shed Creelman
T15	N/A	TL0681_TL0681A B C: ASH-FE-VC ck 1 AND TL0683_TL0683 RINCON-LILAC ck 1	P6	N-1-1	95.29	96.49	91.85			Diverge	Diverge	Diverge	Operation Procedure to radialize Valley Center after 1st contingency
T16	22604 OTAY 69.0 22616 OTAYLKTP 69.0 1 1	TL06936_TL06936 BORDER-CALPK_BD 69 ck 1 AND TL06964_TL06964 MIGUEL-SALT CREEK 69 ck 1	P6	N-1-1			165.38						Generation Re-dispatch after 1st contingency
T17	22768 BAY BLVD 69.0 22820 SWEETWTR 69.0 1 1	TL23026_TL23026 SILVERGT - BAY BLVD ck 1 AND TL0642_TL0642A B C: MONTGMRY-SWEETWTRW-BAY BLVD	P6	N-1-1	110.88	132.17	114.65		96.29	145.56	112.60	137.84	TL 644 Recondcutor as previously approved in transmission plan, Operation Procedure in the interim
T18	22856 TOREYPNS 69.0 22864 UCM 69.0 1 1	TL06905_TL06905 GENESEE -PENSQTOS ck 2 AND TL06959_TL06959 MIRASNT0-PENSQTOS ck 1	P6	N-1-1	122.26	122.41	116.90			140.17	128.15	139.30	Operation Procedure, radialize Genesee substation after 1st contingency
T19	22112 CAPSTRNO 138 22860 TRABUCO 138 1 1	TL13831_TL13831 TALEGA-R.MSNVJO ck 1 AND TL13833_TL13833 PICO-TRABUCO ck 1	P6	N-1-1	118.92						124.55		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T20	22316 GENESEE 69.0 22644 PENSQTOS 69.0 2 1	TL06943_TL069 TOREYPNS to UCM ck 1 AND TL06959_TL06959 MIRASNT0-PENSQTOS ck 1	P6	N-1-1	117.00	117.25	111.95			134.50	122.71	133.71	Operation Procedure, radialize Genesee substation after 1st contingency
T21	22708 SANLUSRY 69.0 22582 OCEAN RANCH 69.0 1 1	TL0680_TL0680A B C: SA-ME-SM ck 1 AND TL0693_TL0693 MELROSE - SANLUSRY ck 1	P6	N-1-1	97.87	101.26	94.14			134.09	121.42	131.40	Operation Procedure, preferred resources and to re-configure systems after 1st contingency
T22	22331 MIRASNT0 69.0 22644 PENSQTOS 69.0 1 1	TL06905_TL06905 GENESEE -PENSQTOS ck 2 AND TL06943_TL069 TOREYPNS to UCM ck 1	P6	N-1-1	116.19	116.33	111.14			133.23	121.79	132.48	Operation Procedure, radialize Genesee substation after 1st contingency
T23	22160 DEL MAR 69.0 22644 PENSQTOS 69.0 2 1	TL0610_TL0610 DEL MAR-PENSQTOS ck 1 AND TL06952_TL06952 NORTHCTY-PENSQTOS 69 ck 1	P6	N-1-1	103.72	114.09	109.57			127.04	105.81	127.51	Operation Procedure to radialize North City and Encinitas after 1st contingency



ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)								Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift	
T24	22440 MELROSE 69.0 22708 SANLUSRY 69.0 1 1	TL0680_TL0680A B C: SA-ME-SM ck 1 AND TL06966_TL06966 OCEAN RANCH-SANLUSRY 69 ck 1	P6	N-1-1	90.66	94.26				125.61	113.24	123.03	Operation Procedure, preferred resources and to re-configure systems after 1st contingency
T25	22160 DEL MAR 69.0 22644 PENSQTOS 69.0 1 1	TL0667_TL0667 DEL MAR-PENSQTOS ck 2 AND TL06952_TL06952 NORTHCTY-PENSQTOS 69 ck 1	P6	N-1-1	101.13	111.50	107.06			124.33	103.21	124.84	Operation Procedure to radialize North City and Encinitas after 1st contingency
T26	22272 ESCO 69.0 22876 WARCYNTP 69.0 1 1	TL0633_TL0633 BERNARDO-R.CARMEL ck 1 AND TL06913_TL06913 POWAY-POMERADO ck 1	P6	N-1-1	116.25						122.41		Poway-Pomerado Line 2, Operation Procedure in the interim
T27	22440 MELROSE 69.0 22442 MELRSETP 69.0 1 1	TL0693_TL0693 MELROSE - SANLUSRY ck 1 AND TL06966_TL06966 OCEAN RANCH- SANLUSRY 69 ck 1	P6	N-1-1						120.99	108.57	119.02	Operation Procedure, preferred resources and to re-configure systems after 1st contingency
T28	22252 ENCNITAS 69.0 22160 DEL MAR 69.0 1 1	TL0616_TL0616A B C: Lkhodges-BERNARDO- RSF ck 1 AND TL06952_TL06952 NORTHCTY- PENSQTOS 69 ck 1	P6	N-1-1	114.34						120.52		Artesen 230/69 kV Transformer to mitigate for long term, Operation Procedure in the interim to radialize NorthCity and R.SNTTP substation
T29	22841 LAGNA NL TAP 138 22396 LAGNA NL 138 1 1	TL13836_TL13836 TALEGA-PICO ck 1 AND TL13846_TL13846 TA TAP33 TALEGA-SM-PICO ck 1	P6	N-1-1	112.50						117.90		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T30	22768 BAY BLVD 69.0 22352 IMPRLBCH 69.0 1 1	TL0645_TL0645 BAY BLVD-OTAY ck 1 AND TL0646_TL0646 BAY BLVD-OTAY ck 2	P6	N-1-1			117.05						Operation Procedure to dispatch local generation after 1 st contingency, no overload for 30-minute rating
T31	22306 GARFIELD 69.0 22208 EL CAJON 69.0 1 1	TL0618_TL0618 MISSION-MURRAY ck 1 AND TL0619_TL0619 MISSION-MURRAY ck 2	P6	N-1-1	102.25	101.20	96.42			116.46	107.41	115.34	Prefered resources, operation procedure
T32	22420 SILVERGT 69.0 22548 NATNLCTY 69.0 1 1	TL23026_TL23026 SILVERGT - BAY BLVD ck 1 AND TL0603A_TL0603A NSM-SW ck 1	P6	N-1-1		107.82			91.83	115.04		105.49	Operation Procedure to open the Line after 1st contingency
T33	22200 DUNHILTP 69.0 22188 DOUBLTTP 69.0 1 1	TL0662_TL0662 PENSQTOS -TOREYPNS ck 1 AND TL06959_TL06959 MIRASNT0-PENSQTOS ck 1	P6	N-1-1	100.31	99.42	93.96			113.70	105.11	111.79	Operation procedure to radialize TOREYPNS and MIRASNT0 after 1st contingency
T34	22188 DOUBLTTP 69.0 22164 DELMARTP 69.0 1 1	TL0662_TL0662 PENSQTOS -TOREYPNS ck 1 AND TL06959_TL06959 MIRASNT0-PENSQTOS ck 1	P6	N-1-1	100.31	99.42	93.96			113.70	105.11	111.79	Operation procedure to radialize TOREYPNS and MIRASNT0 after 1st contingency



ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)								Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift	
T35	22548 NATNLCTY 69.0 22820 SWEETWTR 69.0 1 1	TL23026_TL23026 SILVERGT - BAY BLVD ck 1 AND TL0603A_TL0603A NSM-SW ck 1	P6	N-1-1		106.49			90.55	113.69		104.30	Operation Procedure to open the Line after 1st contingency
T36	22644 PENSQTOS 69.0 22164 DELMARTP 69.0 1 1	TL0662_TL0662 PENSQTOS -TOREYPNS ck 1 AND TL06959_TL06959 MIRASNT0-PENSQTOS ck 1	P6	N-1-1	100.29	99.38	93.93			113.67	105.09	111.75	Operation procedure to radialize TOREYPNS and MIRASNT0 after 1st contingency
T37	22856 TOREYPNS 69.0 22200 DUNHILTP 69.0 1 1	TL0662_TL0662 PENSQTOS -TOREYPNS ck 1 AND TL06959_TL06959 MIRASNT0-PENSQTOS ck 1	P6	N-1-1	96.49	96.24	92.02			110.07	101.11	109.47	Operation procedure to radialize TOREYPNS and MIRASNT0 after 1st contingency
T38	22056 BERNARDO 69.0 22284 FELCTATP 69.0 1 1	TL0648_TL0648 POWAY-R.CARMEL ck 1 AND TL06920_TL06920 ARTESN-SYCAMORE ck 1	P6	N-1-1	101.10						109.64		Artesen 230/69 kV Transformer to mitigate for long term, Operation Procedure in the interim to radialize Artesan or R. Carmel substation
T39	22331 MIRASNT0 69.0 22316 GENESEE 69.0 1 1	TL06905_TL06905 GENESEE -PENSQTOS ck 2 AND TL06943_TL069 TOREYPNS to UCM ck 1	P6	N-1-1	93.70	94.82	91.84			108.63	98.23	109.52	Operation Procedure, radialize Genesee and UCM substation after 1st contingency
T40	22884 WARNERS 69.0 22688 RINCON 69.0 1 1	TL50001_N-1-1_SPS_ECO to MIGUEL N-1-1 SPS AND TL0637_TL0637 SANTYSBL - CREELMAN ck 1	P6	N-1-1								108.50	Warners SPS to open TL685
T41	22256 ESCNDIDO 69.0 22272 ESCO 69.0 1 1	TL0633_TL0633 BERNARDO-R.CARMEL ck 1 AND TL06913_TL06913 POWAY-POMERADO ck 1	P6	N-1-1	101.71						108.45		Poway-Pomerado Line 2, Operation Procedure in the interim
T42	22316 GENESEE 69.0 22864 UCM 69.0 1 1	TL0662_TL0662 PENSQTOS -TOREYPNS ck 1 AND TL0666_TL0666 A-G PQ-DB-DH-TP ck 1	P6	N-1-1	93.03	93.59	90.43			107.20	97.52	107.80	Operation procedure to radialize TOREYPNS after 1st contingency
T43	22668 POWAY 69.0 22664 POMERADO 69.0 1 1	TL23014_TL23014 PEN-ESCNDIDO ck 1 AND TL23015_TL23015 PEN-ESCNDIDO ck 2	P6	N-1-1	107.55						104.33		Poway-Pomerado Line 2, Operation Procedure in the interim
T44	22208 EL CAJON 69.0 22408 LOSCOCHS 69.0 1 1	TL0624_TL0624 EL CAJON-JAMACHA ck 1 AND TL0632_TL0632A B C: ML-GR-LC ck 1	P6	N-1-1	102.52						107.44		Operation Procedure to radialize Granite in the interim, re-configure of load in 2022 and 2027 cases
T45	22524 MORHILTP 69.0 22440 MELROSE 69.0 1 1	TL0698_TL0698 MN-AV-PA ck 1 AND TL06912_TL06912 PENDLETN-SANLUSRY ck 1	P6	N-1-1	96.72	92.60				106.26	101.42	104.08	Operation Procedure to radialize Pendleton and Avocado



ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)								Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift	
T46	22648 PENSQTOS 138 22644 PENSQTOS 69.0 1 1	PQ51_PQ BK 51 69/138 AND PQ52_PQ BK 52 69/138	P6	N-1-1			93.99					106.14	Generation Re-dispatch after 1st contingency, no overload on 30-min rating
T47	22500 MISSION 138 22496 MISSION 69.0 1 1	MS70_MS BK 70 230/69 AND MS71_MS BK 71 230/69	P6	N-1-1	90.15					98.67	95.49	105.97	Generation Re-dispatch after 1st contingency, no overload on 30-min rating
T48	22192 DOUBLTTP 138 22300 FRIARS 138 1 1	TL23013_TL23013 PENSQTOS - OT ck 1 AND SX-PQ_SX - PQ 230 ck 1	P6	N-1-1	96.60				105.94				Mission-PQ line or flow control device to mitigate, Operation Procedure to re-dispatch Generation in the interim
T49	22024 B 69.0 22420 SILVERGT 69.0 1 1	TL0605_TL0605 SILVERGT-URBAN ck 1 AND TL0699_TL0699 B -SILVERGT ck 2	P6	N-1-1		93.81	93.44			100.79		105.90	Preferred resources, operation procedure after 1st contingency, no overload on 30-min rating
T50	22668 POWAY 69.0 22676 R.CARMEL 69.0 1 1	TL0689_TL0689A C E: ES-FE-BR ck 1 AND TL06920_TL06920 ARTESN-SYCAMORE ck 1	P6	N-1-1	103.51						105.66		Artesen 230/69 kV Transformer to mitigate for long term, Operation Procedure in the interim to radialize Artesan or R. Carmel substation
T51	22592 OLD TOWN 69.0 22871 VINE SUB 69.0 1 1	SG70_SG BK 70 230/69 AND SG72_SG BK 71 230/69	P6	N-1-1						100.63		104.51	Preferred resources, operation procedure after 1st contingency
T52	22844 TALEGA 230 22840 TALEGA 138 1 1	TA61_TA BK 61 230/138 AND TA63_TA BK 63 230/138	P6	N-1-1	98.19						103.45		Operation Procedure to redispatch generation after 1st contingency, no overload in 30-min rating, transformers will be removed in 2022 and 2027 cases
T53	22664 POMERADO 69.0 22828 SYCAMORE 69.0 2 1	TL06915_TL06915 POMERADO -SYCAMORE ck 1 AND AR70_AR BK 70 230/69	P6	N-1-1		96.51	90.56			102.27		98.66	Operation Procedure to radialize Pomerado after the 1st contingency
T54	22664 POMERADO 69.0 22828 SYCAMORE 69.0 1 1	TL06924_TL06924 POMERADO -SYCAMORE ck 2 AND AR70_AR BK 70 230/69	P6	N-1-1		96.51	90.56			102.27		98.66	Operation Procedure to radialize Pomerado after the 1st contingency
T55	22844 TALEGA 230 22840 TALEGA 138 3 1	TA61_TA BK 61 230/138 AND TA63_TA BK 63 230/138	P6	N-1-1	96.35						101.50		Operation Procedure to redispatch generation after 1st contingency, no overload in 30-min rating, transformers will be removed in 2022 and 2027 cases
T56	22644 PENSQTOS 69.0 22856 TOREYPNS 69.0 1 1	TL06907_TL06907 GENESEE -UCM ck 1 AND TL0666_TL0666 A-G PQ-DB-DH-TP ck 1	P6	N-1-1						100.67	91.76	101.25	Operation Procedure, preferred resources and to re-configure systems after 1st contingency, monitor load growth
T57	22668 POWAY 69.0 22876 WARCYNTP 69.0 1 1	TL0633_TL0633 BERNARDO-R.CARMEL ck 1 AND TL06913_TL06913 POWAY-POMERADO ck 1	P6	N-1-1	95.48						100.53		Poway-Pomerado Line 2, Operation Procedure in the interim
T58	22532 MURRAY 69.0 22306 GARFIELD 69.0 1 1	TL0618_TL0618 MISSION-MURRAY ck 1 AND TL0619_TL0619 MISSION-MURRAY ck 2	P6	N-1-1						100.46	92.31	99.98	Operation Procedure to radialize Murray after 1st contingency, monitor load growth



ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)								Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift	
T59	22808 STUARTTP 69.0 22400 LASPULGS 69.0 1 1	TL23007+52_TA-SO 1 + 2 230KV	P7	N-2	142.64						151.46		Upgrade Las Pulgas - Stuart Tap 69 kV, as previously approved, in 2018, SPS to trip TL 695 in the interim
T60	22442 MELRSETP 69.0 22724 SANMRCOS 69.0 1 1	TL23003+11_SA-EA + PEN-EA-SA 230KV	P7	N-2					140.61				Congestion Management, upgrade Melrose-San Marcos 69 kV or remove Encina Tap 230 kV
T61	22841 LAGNA NL TAP 138 22396 LAGNA NL 138 1 1	TL13846+13836_PI-SMO-TA 138KV + PI-TA 69KV	P7	N-2	112.50						117.90		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T62	22256 ESCNDIDO 69.0 22272 ESCO 69.0 1 1	TL6924+6915_POM-SX 1 + 2 69KV	P7	N-2								106.23	Congestion Management, monitor load growth, existing SPS to trip load
T63	22200 DUNHILTP 69.0 22188 DOUBLTTP 69.0 1 1	TL662+6905_PQ-TP + GE-PQ 69KV	P7	N-2	93.34	92.67				105.94	97.79	104.45	Congestion Management, preferred resources, monitor load growth
T64	22188 DOUBLTTP 69.0 22164 DELMARTP 69.0 1 1	TL662+6905_PQ-TP + GE-PQ 69KV	P7	N-2	93.34	92.67				105.93	97.79	104.45	Congestion Management, preferred resources, monitor load growth
T65	22644 PENSQTOS 69.0 22164 DELMARTP 69.0 1 1	TL662+6905_PQ-TP + GE-PQ 69KV	P7	N-2	93.32	92.63				105.90	97.77	104.42	Congestion Management, preferred resources, no overload on 30-min rating
T66	22841 LAGNA NL TAP 138 22396 LAGNA NL 138 1 1	TL13816+33_PI-CP + TA-TB 138KV	P7	N-2	98.93						103.67		SOCRE project as previously approved in transmission plan, Operation Procedure in the interim
T67	22856 TOREYPNS 69.0 22200 DUNHILTP 69.0 1 1	TL662+6905_PQ-TP + GE-PQ 69KV	P7	N-2						102.30	93.79	102.14	Congestion Management, preferred resources, no overload on 30-min rating



ID	Substation	Worst Contingencies	Category	Category Description	Voltage (PU)										Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift			
V-01															
V-02															
V-03															
V-04															
V-05															
V-06															
V-07															
V-08															
V-09															
V-10															
V-11															
V-12															
V-13															
V-14															
V-15															
V-16															
V-17															
V-18															
V-19															



ID	Substation	Worst Contingencies	Category	Category Description	Post Cont. Voltage Deviation %										Potential Mitigation Solutions
					B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift			
VD-01															

Study Area: SDG&E Sub-Transmission

Transient Stability



ID	Contingency	Category	Category Description	Transient Stability Performance										Potential Mitigation Solutions
				B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift			
TS-01														
TS-02														
TS-03														
TS-04														
TS-05														
TS-06														
TS-07														
TS-08														
TS-09														
TS-10														
TS-11														
TS-12														
TS-13														
TS-14														
TS-15														
TS-16														
TS-17														
TS-18														
TS-19														
TS-20														
TS-21														
TS-22														
TS-23														
TS-24														
TS-25														
TS-26														
TS-27														
TS-28														
TS-29														
TS-30														
TS-31														



Single Contingency Load Drop

ID	Worst Contingencies	Category	Category Description	Amount of Load Drop (MW)										Potential Mitigation Solutions
				B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off-Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift			
X-SLD-1														

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

Single Source Substation with more than 100 MW Load

ID	Substation	Load Served (MW)										Potential Mitigation Solutions
		B1: 2019 Summer Peak	B2: 2022 Summer Peak	B3: 2027 Summer Peak	B4: 2019 Spring Light Load	B5: 2022 Spring Off- Peak	S1: 22SP High Load & Peak Shift	S2: 19SP Peak Shift	S3: 27SP Peak Shift			
X-SS-1												

No single source substation with more than 100 MW Load