

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Alhambra - Martinez 115 kV Line	P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	1	23	20	35	49	53	47	41	124	35	22	Sensitivity only
	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	< 100	< 100	123	< 100	< 100	< 100	< 100	145	< 100	< 100	< 100	Install redundant battery supply
AMES-Mountain View 115 kV	P2-4:A17:1:_MONTAVIS 230KV - SECTION 1D & 2D	P2	Breaker	104	NA	NA	90	NA	71	NA	NA	Diverge	90	NA	Project: Montavista 230 kV Bus Upgrade
AMES-Whisman 115 kV	P2-4:A17:1:_MONTAVIS 230KV - SECTION 1D & 2D	P2	Breaker	111	NA	NA	87	NA	65	NA	NA	Diverge	87	NA	Project: Montavista 230 kV Bus Upgrade
	RAVENSWD 230/115KV TB 2 & MTN VIEW-MONTA VISTA 115KV [2920]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	Sensitivity only
Bahia - Moraga 230 kV	P5-5C:A8:2:_CONTRA COSTA PP 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	89	59	59	69	34	56	37	50	104	69	57	Sensitivity only
Bair 115/60kV Transformer #1	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	163	195	330	146	< 100	185	194	261	157	144	199	Operating solution
Bair-Cooley Landing #1 60kV Line	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	140	182	346	121	< 100	149	164	230	134	120	186	Operating solution
	P2-2:A10:16:_BAIR 115KV SECTION 1D	P2	Bus	60	73	102	50	28	64	67	87	62	50	74	Continue to monitor
	P2-3:A10:22:_BAIR - 1D 115KV & BAIR-RVNSWD D-LONESTAR LINE	P2	Breaker	60	73	102	51	29	64	67	87	62	51	74	Continue to monitor
Bair-Cooley Landing #2 60kV Line	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	138	178	298	115	< 100	116	127	171	146	113	182	Operating solution
	Base Case	P0	Normal	62	85	111	51	45	54	59	75	77	51	86	Continue to monitor
	P2-4:A16:24:_NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	54	75	100	45	39	50	56	70	Diverge	45	76	Continue to monitor
	P2-4:A16:25:_NEWARK D SECTION 2D & NEWARK E SECTION 2E 230KV	P2	Breaker	54	75	100	45	39	50	56	70	71	45	76	Continue to monitor
	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	112	134	< 100	< 100	< 100	108	117	159	104	< 100	137	Operating solution
	P2-2:A10:16:_BAIR 115KV SECTION 1D	P2	Bus	63	74	105	52	32	66	67	90	68	52	74	Continue to monitor
	P2-2:A17:15:_AMES BS2 115KV SECTION 2D	P2	Bus	78	109	69	30	31	41	41	54	98	30	111	Load Flow under review
	P2-3:A10:22:_BAIR - 1D 115KV & BAIR-RVNSWD D-LONESTAR LINE	P2	Breaker	63	74	105	52	32	66	67	90	68	52	74	Continue to monitor
Birds Landing - Contra Costa Sub 230 kV Line	P1-2:A8:14:_BIRDS LANDING SW STA-CONTRA COSTA PP 230KV [5830]	P1	N-1	56	67	41	33	40	36	5	25	100	33	58	Sensitivity only
	P2-2:A8:25:_C.COSTAPPE 230KV SECTION 2E	P2	Bus	54	64	14	31	41	40	4	4	107	31	54	Sensitivity only
	P2-3:A8:18:_C.COSTAPPE - 2E 230KV & BVISTAWNDC1-DELTAPMP-C.COSTAPPE LINE	P2	Breaker	54	38	39	31	28	40	3	23	107	31	32	Sensitivity only
	P2-4:A8:39:_C.COSTAPPD SECTION 2D & C.COSTAPPE SECTION 2E 230KV	P2	Breaker	52	59	42	35	38	41	8	26	102	35	57	Sensitivity only
Castro Valley-Newark 230kV Line	P2-4:A16:25:_NEWARK D SECTION 2D & NEWARK E SECTION 2E 230KV	P2	Breaker	61	100	97	41	44	3	30	49	46	42	101	Sensitivity only
Cayetano-Lone Tree (Lone Tree-USWP) 230kV Line	P1-2:A16:4:_CONTRA COSTA-LAS POSITAS 230KV [4510]	P1	N-1	101	74	89	93	28	52	67	80	57	90	79	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-2:A16:10:_NEWARK D 230KV SECTION 1D	P2	Bus	100	74	90	92	31	52	66	80	63	90	79	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-4:A8:9:_MORAGA 230KV - SECTION 2D & 1D	P2	Breaker	113	75	83	105	29	64	73	77	Diverge	103	81	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	115	77	102	107	30	65	75	82	Diverge	104	83	Install redundant battery supply
	TESLA-NEWARK #1 230KV [5720] & TESLA-NEWARK #2 230KV [5354]	P6	N-1-1	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	Base Case	P0	Normal	105	81	96	97	32	50	64	79	71	97	86	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P1-2:A16:19:_LAS POSITAS-NEWARK 230KV [4980]	P1	N-1	101	79	93	94	32	51	66	82	69	94	84	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P1-2:A16:20:_TESLA-NEWARK #1 230KV [5720]	P1	N-1	102	78	92	94	33	56	67	83	75	94	82	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P1-2:A16:24:_TESLA-NEWARK #2 230KV [5354]	P1	N-1	102	81	96	93	33	54	67	84	72	93	85	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P1-2:A16:4:_CONTRA COSTA-LAS POSITAS 230KV [4510]	P1	N-1	108	84	96	99	34	56	71	84	73	99	89	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation

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				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Cayetano-Lone Tree (USWP-Cayetano) 230kV Line	P1-2:A8:15:_CONTRA COSTA-LAS POSITAS 230KV [4510]	P1	N-1	108	84	96	99	34	56	71	84	73	99	89	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-2:A16:10:_NEWARK D 230KV SECTION 1D	P2	Bus	107	84	98	99	36	56	71	84	79	99	89	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-2:A16:7:_LS PSTAS 230KV SECTION 1D	P2	Bus	106	83	98	98	33	55	70	86	72	98	88	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-3:A8:15:_MORAGA - 2D 230KV & CONTRA COSTA-MORAGA #2 LINE	P2	Breaker	105	81	96	97	32	55	69	85	72	97	85	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-4:A16:24:_NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	104	99	115	96	60	52	87	100	Diverge	96	103	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-4:A16:7:_NEWARK E 230KV - SECTION 1E & 2E	P2	Breaker	101	88	99	92	39	52	73	86	67	92	93	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-4:A8:40:_C.COSTAPPD SECTION 1D & C.COSTAPPE SECTION 1E 230KV	P2	Breaker	106	88	98	98	34	54	70	87	79	98	95	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-4:A8:42:_C.COSTAPPE SECTION 1E & C.COSTAPPF SECTION 1F 230KV	P2	Breaker	101	76	100	95	26	50	68	86	63	95	82	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P2-4:A8:9:_MORAGA 230KV - SECTION 2D & 1D	P2	Breaker	120	85	90	112	34	68	78	81	Diverge	112	91	Continue to monitor
	P5-5C:A16:6:_LAS POSITAS 230-60KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	106	83	98	98	33	54	70	86	72	98	88	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	121	87	109	113	35	69	80	85	Diverge	113	93	Install redundant battery supply	
Christie-Franklin #2 60kV Line	Base Case	P0	Normal	63	60	97	78	40	87	91	104	42	78	61	Continue to monitor
	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	70	62	92	112	40	119	105	112	46	112	63	Install redundant battery supply
Christie-Sobrante (Oleum-Sobrante) 115kV Line	P2-4:A8:14:_PITTSBURG-E 115KV - SECTION 2E & 1E	P2	Breaker	100	67	46	106	29	104	65	56	99	106	68	Project: Christie-Sobrante 115 kV Line Reconnector
	P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	60	28	15	64	6	35	23	23	118	64	29	Sensitivity only
	SOBRANTE-G #1 115KV [3720] & SOBRANTE-G #2 115KV [3730]	P6	N-1-1	139	< 100	< 100	148	< 100	142	< 100	< 100	104	126	< 100	Project: Christie-Sobrante 115 kV Line Reconnector
Claremont K - Oakland D #1 115kV Cable	K-D #2 115KV [9967] & C-L #1 115KV [9961]	P6	N-1-1	102	< 100	109	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load forecast under review
	P1-2:A7:25:_K-D #2 115KV [9967]	P1	N-1	76	91	98	77	86	86	101	111	72	77	90	Load forecast under review
	P2-2:A7:17:_STATIN D 115KV SECTION ME	P2	Bus	66	82	89	69	81	76	91	101	64	69	82	Load forecast under review
	P2-4:A7:14:_STATIN X 115KV - SECTION 2D & 1D	P2	Breaker	77	72	92	89	73	97	100	109	81	89	73	Load forecast under review
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	102	118	150	99	102	110	132	153	Diverge	99	118	Install redundant battery supply
	RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS & K-D #2 115KV [9967]	P3	N-1-1	< 100	< 100	101	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Claremont K - Oakland D #2 115kV Cable	K-D #1 115KV [9966] & C-L #1 115KV [9961]	P6	N-1-1	101	< 100	107	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load forecast under review
	MORAGA-OAKLAND #1 115KV [2720] & K-D #1 115KV [9966]	P6	N-1-1	< 100	< 100	102	< 100	< 100	< 100	108	< 100	< 100	< 100	< 100	Load forecast under review
	P1-2:A7:24:_K-D #1 115KV [9966]	P1	N-1	74	89	96	76	85	84	98	108	70	76	89	Load forecast under review
	P2-2:A7:15:_CLARMNT 115KV SECTION 1D	P2	Bus	65	88	94	67	83	74	92	101	58	67	87	Load forecast under review
	P2-4:A7:14:_STATIN X 115KV - SECTION 2D & 1D	P2	Breaker	75	70	90	87	71	94	97	106	79	87	71	Load forecast under review
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	99	115	146	96	100	106	128	148	Diverge	96	115	Install redundant battery supply
Claremont-East Portal 115kV section	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	116	135	177	115	115	102	122	142	Diverge	115	136	Install redundant battery supply

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				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
	SOBRANTE-GRIZZLY-CLAREMONT #2 115KV [3750] & SOBRANTE-MORAGA 115KV [3742]	P6	N-1-1	< 100	< 100	106	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Collinsville - Pittsburg 230 kV Line	Base Case	P0	Normal	NA	95	113	NA	43	NA	94	114	NA	NA	95	Existing series compensation adjustment. Add reactor.
	P1-2:A8:84:_COLLINSVILLE-PITTSBURG-F #1 230KV [0]	P1	N-1	NA	106	128	NA	48	NA	108	131	NA	NA	105	Existing series compensation adjustment. Add reactor.
	P2-4:A8:57:_PITTSBURG-F 230KV - SECTION 2F & 1F	P2	Breaker	NA	94	107	NA	36	NA	80	98	NA	NA	93	Existing series compensation adjustment. Add reactor.
	P2-3:A8:62:_COLLINSVILLE 230KV - MIDDLE BREAKER BAY 1	P2	Breaker	NA	102	123	NA	47	NA	104	126	NA	NA	101	Existing series compensation adjustment. Add reactor.
Collinsville 230/115 kV Transformer #2	DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS & MORAGA 230/115KV TB 3	P3	N-1-1	< 100	< 100	< 100	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	Existing series compensation adjustment. Add reactor.
	MORAGA 230/115KV TB 1 & MORAGA 230/115KV TB 3	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	118	< 100	< 100	< 100	< 100	< 100	Existing series compensation adjustment. Add reactor.
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	73	44	48	81	41	106	69	76	74	81	46	Install redundant battery supply
Collinsville 500/230kV Transformer #1	DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS & COLLINSVILLE 500/230KV TB 2	P3	N-1-1	NA	111	< 100	NA	< 100	NA	126	< 100	NA	NA	114	Existing series compensation adjustment. Add reactor.
	DEC STG1 18/230KV TB 1 & COLLINSVILLE 500/230KV TB 2	P6	N-1-1	NA	< 100	< 100	NA	< 100	NA	105	< 100	NA	NA	< 100	Existing series compensation adjustment. Add reactor.
	P1-3:A8:33:_COLLINSVILLE 500/230KV TB 2	P1	N-1	NA	89	107	NA	43	NA	93	112	NA	NA	88	Existing series compensation adjustment. Add reactor.
	P2-3:A8:63:_COLLINSVILLE 230KV - MIDDLE BREAKER BAY 2	P2	Breaker	NA	89	107	NA	43	NA	93	112	NA	NA	88	Existing series compensation adjustment. Add reactor.
Collinsville 500/230kV Transformer #2	DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS & COLLINSVILLE 500/230KV TB 1	P3	N-1-1	NA	111	< 100	NA	< 100	NA	126	< 100	NA	NA	114	Existing series compensation adjustment. Add reactor.
	DEC STG1 18/230KV TB 1 & COLLINSVILLE 500/230KV TB 1	P6	N-1-1	NA	< 100	< 100	NA	< 100	NA	105	< 100	NA	NA	< 100	Existing series compensation adjustment. Add reactor.
	P1-3:A8:32:_COLLINSVILLE 500/230KV TB 1	P1	N-1	NA	89	107	NA	43	NA	93	112	NA	NA	88	Existing series compensation adjustment. Add reactor.
	P2-3:A8:62:_COLLINSVILLE 230KV - MIDDLE BREAKER BAY 1	P2	Breaker	NA	84	102	NA	41	NA	89	107	NA	NA	84	Existing series compensation adjustment. Add reactor.
Contra Costa - BDLWSTA 230 kV Line	P1-2:A8:8:_BIRDS LANDING SW STA-CONTRA COSTA SUB 230KV [6161]	P1	N-1	57	68	42	33	41	36	5	25	102	33	59	Sensitivity only
Cooley Landing - Ravenswood 115 kV Line (Tap CLY LND2)	CLY LND 115/60KV TB 1 & RAVENSWOOD-COOLEY LANDING #2 115KV [3400]	P6	N-1-1	< 100	< 100	142	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103	Continue to monitor
Cooley Landing 115/60kV Transformer #1	P1-3:A10:12:_CLY LND2 115/60KV TB 2	P1	N-1	63	74	104	55	30	68	71	92	65	55	74	Continue to monitor
Cooley Landing 115/60kV Transformer #2	P2-2:A10:19:_CLY LND2 115KV SECTION 1E	P2	Bus	62	72	102	54	29	66	70	91	65	54	74	Continue to monitor
	P1-3:A10:13:_CLY LND 115/60KV TB 1	P1	N-1	63	74	104	55	30	68	71	92	65	55	74	Continue to monitor
Cooley Landing-Palo Alto 115kV Line	P2-2:A10:20:_CLY LND 115KV SECTION 1D	P2	Bus	62	72	103	54	29	66	70	90	65	54	74	Continue to monitor
	P7-1:A10:20_Ravenswood-Cooley Landing Nos. 1 & 2 115 kV lines	P7	DCTL	72	84	120	60	31	67	72	94	76	60	86	Continue to monitor
	P7-1:A10:22_Ravenswood-Palo Alto Nos. 1 & 2 115 kV lines	P7	DCTL	87	88	102	82	80	74	75	83	89	82	88	Continue to monitor
Cooley Landing-Stanford 60kV Line (Cooley Landing-SRI)	RAVENSWOOD-COOLEY LANDING #2 115KV [3400] & RAVENSWOOD-COOLEY LANDING #1 115KV [3390]	P6	N-1-1	< 100	< 100	120	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	Base Case	P0	Normal	57	65	117	62	20	61	66	87	45	62	67	Continue to monitor
	P1-1:A10:3:_SRI INTL 9.11KV GEN UNIT 1	P1	N-1	56	63	109	59	23	66	71	93	39	59	65	Continue to monitor
	P1-3:A10:12:_CLY LND2 115/60KV TB 2	P1	N-1	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor
	P1-3:A10:13:_CLY LND 115/60KV TB 1	P1	N-1	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor
	P2-2:A10:19:_CLY LND2 115KV SECTION 1E	P2	Bus	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor
	P2-2:A10:20:_CLY LND 115KV SECTION 1D	P2	Bus	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor
	P2-2:A9:7:_POTRERO 115KV SECTION 1E	P2	Bus	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor
	P2-3:A9:18:_POTRERO - 1E 115KV & LINE	P2	Breaker	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor

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	P2-4:A16:24:_NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	50	57	105	54	18	61	66	87	Diverge	54	59	Continue to monitor
	P7-1:A10:20_Ravenswood-Cooley Landing Nos. 1 & 2 115 kV lines	P7	DCTL	50	57	105	54	18	61	66	87	39	54	59	Continue to monitor
Dixon Landing-McKee 115 kV Line	P1-2:A18:52:_PIERCY-METCALF 115KV [4318]	P1	N-1	76	72	115	63	29	63	66	81	57	63	74	Continue to monitor
	P2-2:A18:43:_MTCALF E 115KV SECTION 2E	P2	Bus	76	72	115	63	29	63	66	81	57	63	73	Continue to monitor
	P2-4:A18:31:_MTCALF D SECTION 2D & MTCALF E SECTION 2E 115KV	P2	Breaker	76	72	115	63	29	63	66	81	57	63	73	Continue to monitor
	P7-1:A18:6_Swift - Metcalf & Piercy - Metcalf 115 kV Lines	P7	DCTL	77	73	116	63	29	63	66	82	58	63	74	Continue to monitor
Dumbarton-Newark 115kV Line	E. SHORE 230/115KV TB 2 & E. SHORE 230/115KV TB 1	P6	N-1-1	< 100	< 100	101	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Eastshore 230/115kV Transformer #1	P1-3:A16:2:_E. SHORE 230/115KV TB 2	P1	N-1	84	84	105	66	25	73	78	81	75	66	84	Continue to monitor
	P2-2:A16:27:_EASTSHRE 115KV SECTION 1E	P2	Bus	84	84	105	66	25	73	78	81	75	66	84	Continue to monitor
Eastshore 230/115kV Transformer #2	P2-3:A16:5:_E. SHORE 230KV - MIDDLE BREAKER BAY 3	P2	Breaker	84	84	105	66	25	73	78	81	75	66	84	Continue to monitor
	P1-3:A16:1:_E. SHORE 230/115KV TB 1	P1	N-1	84	84	106	66	25	73	77	81	73	66	84	Continue to monitor
	P2-2:A16:26:_EASTSHRE 115KV SECTION 1D	P2	Bus	84	84	106	66	25	73	77	81	73	66	84	Continue to monitor
	P2-3:A16:6:_E. SHORE 230KV - MIDDLE BREAKER BAY 2	P2	Breaker	115	83	106	95	25	105	77	81	43	95	84	Project: East Shore 230 kV Bus Terminals Reconfiguration
	P2-4:A16:14:_EASTSHRE 115KV - SECTION MD & 1D	P2	Breaker	82	81	102	64	25	71	75	79	72	64	82	Continue to monitor
Eastshore-San Mateo 230kV Line	P2-4:A16:12:_EASTSHRE 115KV - SECTION ME & MD	P2	Breaker	82	106	110	69	30	68	89	98	8	69	106	Generation redispatch
	P2-4:A16:15:_EASTSHRE 115KV - SECTION 1D & 1E	P2	Breaker	82	106	111	69	30	69	90	100	8	70	106	Generation redispatch
	P5-5C:A16:11:_EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	82	106	110	69	30	68	89	98	8	69	106	Install redundant battery supply
	P7-1:A10:2_Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	91	105	107	78	42	73	89	90	Diverge	78	105	Continue to monitor
	TESLA-RAVENSWOOD 230KV [5730] & NEWARK-RAVENSWOOD 230KV [5936]	P6	N-1-1	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
El Patio-San Jose Sta. 'A' 115 kV Line	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalf 230 kV Lines	P7	DCTL	87	23	56	73	41	91	37	47	109	73	25	Sensitivity only
Evergreen-Almaden 60 kV Line	Base Case	P0	Normal	74	71	113	57	15	54	59	69	48	57	72	Continue to monitor
	P1-2:A18:38:_SAN JOSE B-STONE-EVERGREEN 115KV [1550]	P1	N-1	66	63	102	50	13	54	59	69	43	50	64	Continue to monitor
	P1-2:A18:99:_SANJOSEBHVD C VSC	P1	N-1	NA	63	104	NA	13	NA	57	69	NA	NA	64	Continue to monitor
	P2-1:A18:22:_SAN JOSE B-STONE-EVERGREEN 115KV [1550] (MARKHM J-EVRGRN 1)	P2	Line Section w/o Fault	66	63	102	50	13	54	59	69	43	50	64	Continue to monitor
	P2-2:A18:33:_EVRGRN 1 115KV SECTION 1D	P2	Bus	66	66	110	50	13	54	59	69	43	50	67	Continue to monitor
	P2-3:A18:24:_EVRGRN 1 - 1D 115KV & SAN JOSE B-STONE-EVERGREEN LINE	P2	Breaker	66	66	110	50	13	54	59	69	43	50	67	Continue to monitor
	P7-1:A18:17_Metcalf - Evergreen #1 and #2 115 kV Lines	P7	DCTL	70	63	102	53	13	54	59	69	46	53	64	Continue to monitor
FMC-San Jose 'B' 115 kV Line	LOS ESTEROS-NORTECH 115KV [4032] & SSS 230/230KV TB 1	P6	N-1-1	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load forecast under review
	SVP2-4:6:_NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	142	NA	NA	105	NA	101	NA	NA	153	105	NA	Project: NRS rebuild project
Grant-Eastshore #1 115kV Line	P2-4:A8:31:_MORAGA E 115KV - SECTION 2E & 1E	P2	Breaker	90	87	109	78	56	92	95	104	78	78	88	Continue to monitor
Grant-Eastshore #2 115kV Line	P2-4:A8:31:_MORAGA E 115KV - SECTION 2E & 1E	P2	Breaker	92	88	111	79	57	94	96	106	79	79	89	Continue to monitor
Grant-Oakland J 115 kV Line	P2-4:A8:31:_MORAGA E 115KV - SECTION 2E & 1E	P2	Breaker	84	82	110	75	55	78	81	89	72	75	83	Continue to monitor
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	90	63	95	101	37	97	81	81	Diverge	101	65	Install redundant battery supply
Jefferson-Hillsdale JCT 60kV Line	OX & SAN MATEO-HILLSDALE JCT 60KV [7950] MOAS OPENED ON SAN MATO	P3	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	101	< 100	< 100	< 100	Continue to monitor
	OX & SAN MATEO-HILLSDALE JCT 60KV [7950] MOAS OPENED ON SAN MATO	P3	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	101	< 100	< 100	< 100	Continue to monitor
	OX & SAN MATEO-HILLSDALE JCT 60KV [7950] MOAS OPENED ON SAN MATO	P3	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	101	< 100	< 100	< 100	Continue to monitor
Jefferson-Las Pulgas 60kV Line (Jefferson-Woodside)	Base Case	P0	Normal	52	59	102	70	30	60	71	82	26	70	60	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Juliette-Mission 60 kV (SVP)	SVP2-2:3: SRS 115 kV bus	P2	Bus/Breaker	107	NA	NA	87	NA	79	NA	NA	106	87	NA	Project: SRS rebuild project
	SVP5-5:3_Single Control Circuitry Failure at SRS 115kV bus	P5	Non-Redundent battery supply/Relay	107	NA	NA	87	NA	79	NA	NA	106	87	NA	Project: SRS rebuild project
	SVP2-2:3: SRS 115 kV bus	P2	Bus/Breaker	107	NA	NA	87	NA	79	NA	NA	106	87	NA	Project: SRS rebuild project
	SVP5-5:3_Single Control Circuitry Failure at SRS 115kV bus	P5	Non-Redundent battery supply/Relay	107	NA	NA	87	NA	79	NA	NA	106	87	NA	Project: SRS rebuild project
Kifer-FMC 115 kV Line	SVP2-4:6: NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	112	NA	NA	81	NA	79	NA	NA	123	81	NA	Project: NRS rebuild project
	LOS ESTEROS-NORTECH 115KV [4032] & SSS 230/230KV TB 1	P6	N-1-1	< 100	< 100	118	< 100	< 100	< 100	< 100	105	< 100	< 100	< 100	Load forecast under review
	P5-5C:A16:7: NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	31	63	Diverge	28	79	40	65	113	Diverge	28	62	Install redundant battery supply
	SVP2-4:6: NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	182	NA	NA	132	NA	137	NA	NA	200	132	NA	Project: KRS rebuild project
	TRIMBLE-SAN JOSE B 115KV [4030] & SAN JOSE A-SAN JOSE B 115KV [3510]	P6	N-1-1	< 100	< 100	< 100	< 100	101	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
KRS 115/60 kV Bank #1 (SVP)	SVP2-4:6: NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	109	NA	NA	34	NA	33	NA	NA	110	34	NA	Project: KRS rebuild project
KRS 115/60 kV Bank #2 (SVP)	SVP2-4:6: NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	111	NA	NA	34	NA	33	NA	NA	112	34	NA	Project: KRS rebuild project
Lakewood-Meadow Lane-Clayton 115kV Line	MORAGA 230/115KV TB 2 & LAKEWOOD-CLAYTON 115KV [2082]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	Continue to monitor
	P1-2:A8:66: LAKEWOOD-CLAYTON 115KV [2082]	P1	N-1	65	94	117	55	58	55	76	86	37	55	94	Continue to monitor
Las Positas-Newark 230kV Line	P2-4:A8:9: MORAGA 230KV - SECTION 2D & 1D	P2	Breaker	108	82	83	97	39	47	60	59	Diverge	98	90	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
	P5-5C:A8:8: MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	110	85	96	99	40	49	62	73	Diverge	99	93	Project: Lone Tree – Cayetano – Newark Corridor Series Compensation
Los Esteros-Metcalf 230 kV Line	P2-4:A16:7: NEWARK E 230KV - SECTION 1E & 2E	P2	Breaker	86	67	86	71	48	83	70	81	105	71	68	Sensitivity only
	P2-4:A17:1: MONTAVIS 230KV - SECTION 1D & 2D	P2	Breaker	79	NA	NA	76	NA	105	NA	NA	Diverge	76	NA	Project: Monta Vista 230 kV Bus Upgrade
	P5-5C:A16:7: NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	102	76	Diverge	83	52	93	75	108	Diverge	83	78	Install redundant battery supply
	LOS ESTEROS-NORTECH 115KV [4032] & FMC-SAN JOSE B 115KV [2021]	P6	N-1-1	< 100	< 100	< 100	101	< 100	104	< 100	< 100	< 100	101	< 100	Project: San Jose area HVDC
	P1-2:A18:20: LOS ESTEROS-NORTECH 115KV [4032]	P1	N-1	109	91	102	98	77	97	90	97	105	98	92	Load forecast under review
	P1-2:A18:58: NORTECH-NORTHERN RECEIVING STATION 115KV [1551]	P1	N-1	105	87	98	94	74	93	85	93	101	94	88	Project: San Jose area HVDC
	P1-3:A16:3: NEWARK D 230/115KV TB 9	P1	N-1	101	87	89	90	73	89	88	89	102	90	87	Project: San Jose area HVDC
	P1-3:A16:5: NEWARK E 230/115KV TB 11	P1	N-1	101	88	89	89	73	88	88	89	101	89	88	Project: San Jose area HVDC
	P1-3:A18:10: LS ESTRS 230/115KV TB 4	P1	N-1	101	86	87	89	71	86	85	87	103	89	86	Project: San Jose area HVDC
	P1-3:A18:9: LS ESTRS 230/115KV TB 3	P1	N-1	101	86	87	89	71	86	85	87	103	89	86	Project: San Jose area HVDC
	P2-2:A16:43: NEWARK F 115KV SECTION 2Z	P2	Bus	106	92	95	94	74	89	88	93	105	94	92	Invalid Contingency
	P2-2:A18:56: NORTECH 115KV SECTION 1F	P2	Bus	107	90	100	96	76	95	88	95	104	96	90	Continue to monitor
	P2-2:A18:57: NORTECH 115KV SECTION 1E	P2	Bus	106	88	98	94	74	94	86	94	102	94	88	Project: San Jose area HVDC
	P2-3:A18:4: LS ESTRS 230KV - MIDDLE BREAKER BAY 6	P2	Breaker	101	86	87	89	71	86	85	87	103	89	86	Project: San Jose area HVDC
	P2-3:A18:41: LS ESTRS 115KV - MIDDLE BREAKER BAY 1	P2	Breaker	109	91	102	98	77	97	90	97	105	98	92	Continue to monitor
	P2-4:A16:22: NEWARK F 115KV - SECTION 1F & 2F	P2	Breaker	102	84	87	90	69	86	80	85	105	90	84	Project: San Jose area HVDC
	P2-4:A18:26: NORTECH 115KV - SECTION 1F & 1E	P2	Breaker	106	88	99	95	75	94	87	94	102	95	88	Project: San Jose area HVDC

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Los Esteros-Silicon Switching Station 230 kV Line	P5-5C:A16:16:_NEWARK D 115 & 60KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	101	84	86	88	71	85	83	85	103	88	86	Project: San Jose area HVDC
	P5-5C:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	103	83	85	90	69	86	79	85	106	90	83	Project: San Jose area HVDC
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	83	75	Diverge	78	69	84	85	103	Diverge	78	75	Install redundant battery supply
	P7-1:A10:2_Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	101	88	89	91	74	91	90	90	Diverge	91	88	Project: San Jose area HVDC
	P7-1:A10:3_Ravenswood-San Mateo Nos. 1 & 2 230 kV lines	P7	DCTL	98	84	84	86	71	84	85	85	101	86	84	Sensitivity only
	P7-1:A18:1_Newark - Northern #1 & #2 115 kV Lines	P7	DCTL	100	82	84	88	68	83	78	83	103	88	82	Project: San Jose area HVDC
	P7-1:A18:11_Trimble - San Jose B & FMC - San Jose B 115 kV Lines	P7	DCTL	100	91	84	89	79	89	93	85	102	89	91	Sensitivity only
	P7-1:A18:14_Newark - Kifer & FMC - Kifer 115 kV Lines	P7	DCTL	98	87	89	86	76	87	87	90	101	86	87	Sensitivity only
	P7-1:A18:16_Metcalf - El Patio No. 1 & 2 115 kV Lines	P7	DCTL	101	86	88	89	71	89	87	88	101	89	86	Project: San Jose area HVDC
	SVP5-5:2_Singele DC Supply Failure at NRS300 115kv bus	P5	Non-Redundent battery supply/Relay	105	84	98	86	71	85	78	90	101	86	84	Project: San Jose area HVDC
Loyola-Monta Vista 60 kV Line	Base Case	P0	Normal	63	56	106	70	25	66	68	85	35	70	57	Continue to monitor
Martin 115/60kV Transformer #6	P2-2:A10:12:_MILLBRAE 115KV SECTION 1E	P2	Bus	38	46	101	51	31	80	87	112	27	51	47	Continue to monitor
	P2-4:A10:7:_MILLBRAE 115KV - SECTION 1F & 1E	P2	Breaker	37	46	101	51	31	80	87	113	27	51	47	Continue to monitor
	P2-4:A10:8:_MILLBRAE 115KV - SECTION 1E & 1D	P2	Breaker	37	46	101	51	31	80	87	113	27	51	47	Continue to monitor
Martin C - Martin S1 230 kV Line	EGBERTSWSTA-JEFFERSN 230KV [0] & POTRERO-TBC	P6	N-1-1	< 100	< 100	106	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Martin-Daly City #2 115kV Line	P2-3:A9:26:_MARTIN C 115KV - MIDDLE BREAKER BAY 1	P2	Breaker	55	53	101	59	31	62	66	85	39	59	55	Continue to monitor
Martinez-Oleum 115kV Line	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	326	259	128	492	121	359	281	137	214	492	263	Install redundant battery supply
Martinez-Sobrante 115kV Line	P1-2:A7:38:_OLEUM-MARTINEZ 115KV [3170]	P1	N-1	36	73	100	59	63	75	103	109	38	59	72	Continue to monitor
	P2-1:A8:46:_OLEUM-MARTINEZ 115KV [3170] (MARTNZ D-ALHAMTP2)	P2	Line Section w/o Fault	36	73	100	59	63	75	103	109	37	59	72	Continue to monitor
	P2-2:A8:17:_SOBRANTE 230KV SECTION 1D	P2	Bus	65	113	153	77	80	90	116	143	15	76	112	Increase line capacity
	P2-3:A8:13:_SOBRANTE - 1D 230KV & IGNACIO-SOBRANTE LINE	P2	Breaker	63	113	154	75	80	90	116	143	15	75	112	Increase line capacity
	P2-4:A7:23:_OLEUM 115KV - SECTION 1E & 1F	P2	Breaker	25	61	108	38	45	49	80	88	19	38	61	Continue to monitor
	P2-4:A8:51:_SOBRANTE 115KV - SECTION 1D & 1E	P2	Breaker	60	73	107	77	46	81	95	115	16	77	74	Continue to monitor
	P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	17	37	70	50	49	69	63	79	111	50	37	Sensitivity only
	P2-4:A8:8:_SOBRANTE 230KV - SECTION 2D & 1D	P2	Breaker	57	112	154	72	80	90	118	145	9	72	111	Flow control or generation redispatch
	P5-5C:A8:14:_CLAYTON 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	49	75	103	60	53	69	90	95	9	60	75	Install redundant battery supply
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	59	73	122	82	59	87	108	128	Diverge	82	74	Install redundant battery supply
	SOBRANTE 230/115KV TB 1 & SOBRANTE 230/115KV TB 2	P6	N-1-1	< 100	101	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103	Increase line capacity
	P1-2:A10:43:_MILLBRAE-SNEATH LANE 60KV [7570] MOAS OPENED ON SN BRUNO JCT_SNTH LINE	P1	N-1	36	49	126	57	24	81	85	110	22	57	50	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Martin-Sneath Lane 60kV Line	P1-2:A10:44:_MILLBRAE-SNEATH LANE 60KV [7570] MOAS OPENED ON SN BRUNO JCT_SNTH LNE (2)	P1	N-1	36	49	126	57	24	81	85	110	22	57	50	Continue to monitor
	P2-2:A10:12:_MILLBRAE 115KV SECTION 1E	P2	Bus	68	84	181	92	56	114	124	155	50	92	85	Winter Load Forecast under review
	P2-4:A10:7:_MILLBRAE 115KV - SECTION 1F & 1E	P2	Breaker	68	83	181	92	56	114	124	158	50	92	84	Winter Load Forecast under review
	P2-4:A10:8:_MILLBRAE 115KV - SECTION 1E & 1D	P2	Breaker	68	83	181	92	56	114	124	158	50	92	84	Winter Load Forecast under review
MARTNZ E-MARTNZ D 115 kV	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	105	85	101	149	38	153	123	148	83	149	86	Install redundant battery supply
Mckee-Piercy 115 kV Line	P2-2:A16:42:_NEWARK F 115KV SECTION 2F	P2	Bus	107	103	136	81	NA	77	NA	NA	88	81	105	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Rescoping under review
	P2-3:A16:15:_NEWARK F - 2F 115KV & NEWARK-NUMMI LINE	P2	Breaker	108	103	136	81	NA	77	NA	NA	88	81	105	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Rescoping under review
	P2-3:A16:16:_NEWARK F - 2F 115KV & NEWARK F-LOCKHD 2-APP MAT LINE	P2	Breaker	107	103	136	81	NA	77	NA	NA	88	81	105	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Rescoping under review
	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Breaker	109	104	139	82	NA	77	NA	NA	90	82	106	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Rescoping under review
	P7-1:A16:1:_NEWARK-DIXON LANDING & NEWARK-MILPITAS #1 LINES	P7	DCTL	108	103	137	81	NA	77	NA	NA	89	81	105	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Rescoping under review
	P7-1:A18:2:_Newark - Dixon Landing & Newark - Milpitas #1 115 kV Lines	P7	DCTL	108	103	137	81	NA	77	NA	NA	88	81	105	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Rescoping under review
Metcalf 230/115 kV Trans No. 1	METCALF 230/115KV TB 2 & METCALF 230/115KV TB 4	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P2-4:A18:4:_METCALF 230KV - SECTION 2D & 2E	P2	Breaker	123	56	82	119	44	112	58	70	123	119	57	Project: Metcalf 230/115 kV Transformers CB Addition
Metcalf 230/115 kV Trans No. 2	METCALF 230/115KV TB 1 & METCALF 230/115KV TB 4	P6	N-1-1	108	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	Project: San Jose area HVDC
	METCALF 230/115KV TB 3 & METCALF 230/115KV TB 4	P6	N-1-1	109	< 100	113	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	Load forecast under review
	P2-2:A18:3:_METCALF 230KV SECTION 2D	P2	Bus	101	65	98	99	50	93	71	84	96	99	67	Project: Metcalf 230/115 kV Transformers CB Addition
	P2-4:A18:1:_METCALF 230KV - SECTION 1D & 1E	P2	Breaker	127	45	68	125	35	114	48	60	119	125	46	Project: Metcalf 230/115 kV Transformers CB Addition
	SSS 230/230KV TB 1 & METCALF 230/115KV TB 4	P6	N-1-1	< 100	< 100	113	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load forecast under review
Metcalf 230/115 kV Trans No. 3	METCALF 230/115KV TB 2 & METCALF 230/115KV TB 4	P6	N-1-1	107	< 100	111	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	Load forecast under review
	METCALF 230/115KV TB 4 & METCALF 230/115KV TB 2	P6	N-1-1	106	< 100	111	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load forecast under review
	P2-4:A18:4:_METCALF 230KV - SECTION 2D & 2E	P2	Breaker	136	62	91	131	49	124	65	78	136	131	64	Project: Metcalf 230/115 kV Transformers CB Addition
Metcalf 230/115 kV Trans No. 4	P2-4:A18:1:_METCALF 230KV - SECTION 1D & 1E	P2	Breaker	115	41	61	113	35	103	42	54	108	113	42	Project: Metcalf 230/115 kV Transformers CB Addition
	SSS 230/230KV TB 1 & METCALF 230/115KV TB 2	P6	N-1-1	< 100	< 100	101	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Metcalf 500/230 kV Trans No. 11	METCALF 500/230KV TB 13 & METCALF 500/230KV TB 12	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	Load Flow under review
Metcalf 500/230 kV Trans No. 12	METCALF 500/230KV TB 13 & METCALF 500/230KV TB 11	P6	N-1-1	< 100	< 100	101	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	Load forecast under review
Metcalf 500/230 kV Trans No. 13	METCALF 500/230KV TB 12 & METCALF 500/230KV TB 11	P6	N-1-1	< 100	< 100	103	< 100	< 100	106	< 100	100	< 100	< 100	< 100	Load forecast under review
	METCALF-EL PATIO #2 115KV [2510] & SAN JOSE B-STONE-EVERGREEN 115KV [1550]	P6	N-1-1	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: South Bay Area Limiting Elements Upgrade
	SAN JOSE A-SAN JOSE B 115KV [3510] & METCALF-EL PATIO #2 115KV [2510]	P6	N-1-1	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P1-2:A18:40:_METCALF-EL PATIO #2 115KV [2510]	P1	N-1	109	35	62	88	29	85	39	48	112	88	37	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	P2-1:A18:15:_METCALF-EL PATIO #2 115KV [2510] (EL PATIO-BAILY J3)	P2	Line Section w/o Fault	109	35	62	88	29	85	39	48	112	88	37	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	P2-2:A18:39:_MTCALF D 115KV SECTION 2D	P2	Bus	115	42	73	93	31	97	46	57	120	93	44	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	P2-3:A18:31:_MTCALF D - 2D 115KV & METCALF-EL PATIO #2 LINE	P2	Breaker	115	42	73	93	31	97	46	57	120	93	44	Project: South Bay Area Limiting Elements Upgrade/Load flow under review

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Metcalfe-El Patio No. 1 115 kV Line	P2-4:A18:31:_MTCALF D SECTION 2D & MTCALF E SECTION 2E 115KV	P2	Breaker	132	47	83	105	33	108	51	64	135	105	49	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	109	40	Diverge	84	26	74	36	56	Diverge	84	41	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	P7-1:A18:17_Metcalfe - Evergreen #1 and #2 115 kV Lines	P7	DCTL	114	37	66	91	26	88	40	50	115	91	39	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalfe 230 kV Lines	P7	DCTL	108	40	63	88	28	82	40	50	119	88	41	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	SAN JOSE A-SAN JOSE B 115KV [3510] & MTCALF-EL PATIO #2 115KV [2510]	P6	N-1-1	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	SVP2-4:6:_NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	118	NA	NA	90	NA	79	NA	NA	123	90	NA	Project: NRS rebuild project
Metcalfe-El Patio No. 2 115 kV Line	P2-4:A18:30:_MTCALF D SECTION 1D & MTCALF E SECTION 1E 115KV	P2	Breaker	100	53	90	81	35	98	57	71	99	81	55	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	SAN JOSE A-SAN JOSE B 115KV [3510] & MTCALF-EL PATIO #1 115KV [2500]	P6	N-1-1	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
	SAN JOSE A-SAN JOSE B 115KV [3510] & MTCALF-EL PATIO #1 115KV [2500]	P6	N-1-1	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: South Bay Area Limiting Elements Upgrade/Load flow under review
Metcalfe-Evergreen No. 1 115 kV Line	SAN JOSE B-STONE-EVERGREEN 115KV [1550] & EVGRN 1-MTCALF E #2 115KV [0]	P6	N-1-1	< 100	< 100	117	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	SAN JOSE B-STONE-EVERGREEN 115KV [1550] & EVGRN 1-MTCALF E #2 115KV [0]	P6	N-1-1	< 100	< 100	111	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Metcalfe-Evergreen No. 2 115 kV Line	SAN JOSE B-STONE-EVERGREEN 115KV [1550] & MTCALF-EVERGREEN #1 115KV [2520]	P6	N-1-1	< 100	< 100	116	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	SAN JOSE B-STONE-EVERGREEN 115KV [1550] & MTCALF-EVERGREEN #1 115KV [2520]	P6	N-1-1	< 100	< 100	111	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Metcalfe-Hicks 230 kV Line	P2-4:A18:1:_MTCALF 230KV - SECTION 1D & 1E	P2	Breaker	85	71	106	78	51	96	90	98	79	78	72	Continue to monitor
Metcalfe-Ultagas 115 kV Line	LLAGAS-GILROY F-GILROYENG-GILROYPK 115KV [0] & MTCALF-MORGAN HILL 115KV [2570]	P6	N-1-1	167	< 100	< 100	129	< 100	< 100	< 100	< 100	146	129	< 100	Project: Morgan Hill area reinforcement
	MTCALF-MORGAN HILL 115KV [2570] & GILROYENG 115/13.8KV TB 1	P6	N-1-1	< 100	< 100	< 100	129	< 100	< 100	< 100	< 100	146	129	< 100	Project: Morgan Hill area reinforcement
	MRGN HIL-AWSGILROYSS #1 115KV [0] & LLAGAS-GILROY F-GILROYENG-GILROYPK 115KV [0]	P6	N-1-1	< 100	< 100	117	< 100	< 100	< 100	< 100	< 100	< 100	< 100	101	Continue to monitor
	SSS 230/230KV TB 1 & MRGN HIL-AWSGILROYSS #1 115KV [0]	P6	N-1-1	< 100	< 100	118	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Metcalfe-Morgan Hill 115 kV Line	MTCALF D-LLAGAS 115KV [0] & LLAGAS-GILROY F-GILROYENG-GILROYPK 115KV [0]	P6	N-1-1	130	< 100	< 100	107	< 100	< 100	< 100	< 100	119	107	< 100	Project: Morgan Hill area reinforcement
Millbrae 115/60kV Transformer #5	P2-3:A9:24:_MARTIN C 115KV - MIDDLE BREAKER BAY B	P2	Breaker	41	50	103	54	34	85	91	115	30	54	50	Continue to monitor
Millbrae-San Mateo #1 115kV Line	EGBERTSWSTA-EMBRCDRD 230KV [0] & SAN MATEO-MARTIN 230KV [9980]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	114	< 100	< 100	< 100	Continue to monitor
	POTRERO-TBC & SAN MATEO-MARTIN 230KV [9980] (2)	P6	N-1-1	< 100	< 100	102	< 100	< 100	< 100	101	< 100	< 100	< 100	< 100	Continue to monitor
Millbrae-Sneath Lane 60kV Line	Base Case	P0	Normal	48	56	104	53	25	68	73	91	39	53	57	Continue to monitor
	P2-3:A9:24:_MARTIN C 115KV - MIDDLE BREAKER BAY B	P2	Breaker	52	69	164	78	34	104	109	142	31	78	70	Continue to monitor
Milpitas-Swift 115 kV Line	NEWARK F-RINGWOODSWST #1 115KV [0] & NEWARK-MILPITAS #1 115KV [3070] MOAS OPENED ON NEWARK F	P6	N-1-1	< 100	< 100	126	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P2-2:A16:41:_NEWARK F 115KV SECTION 1F	P2	Bus	68	71	126	60	46	56	63	94	58	60	71	Continue to monitor
	P2-3:A16:13:_NEWARK F - 1F 115KV & NEWARK F-ZANKER-KRS LINE	P2	Breaker	68	71	126	60	46	56	63	94	58	60	71	Continue to monitor
	P2-3:A16:14:_NEWARK F - 1F 115KV & NEWARK-MILPITAS #1 LINE	P2	Breaker	68	71	126	60	46	56	63	94	58	60	71	Continue to monitor
	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Breaker	69	71	128	61	46	56	63	94	59	61	72	Continue to monitor
	P2-4:A16:27:_NEWARK E SECTION 1E & NEWARK F SECTION 1F 115KV	P2	Breaker	68	71	126	60	46	56	63	94	58	60	71	Continue to monitor
	P5-5C:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	69	71	128	61	46	56	63	94	58	61	72	Continue to monitor
	MONTAVIS 230/115KV TB 4 & MONTAVIS 230/115KV TB 3	P6	N-1-1	107	< 100	122	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Montavista 230 kV Bus Upgrade/Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Monta Vista 230/115 kV Trans No. 2	P2-2:A17:2:_MONTAVIS 230KV SECTION 2D	P2	Bus	102	NA	NA	79	NA	96	NA	NA	99	79	NA	Project: Montavista 230 kV Bus Upgrade/Continue to monitor
	P2-3:A17:2:_MONTAVIS - 2D 230KV & MONTA VISTA-JEFFERSON #2 LINE	P2	Breaker	102	NA	NA	79	NA	96	NA	NA	99	79	NA	Project: Montavista 230 kV Bus Upgrade/Continue to monitor
	P2-4:A17:21:_MONTAVIS 230KV - SECTION 2E & 2D	P2	Breaker	NA	87	119	NA	54	NA	86	89	NA	NA	89	Project: Montavista 230 kV Bus Upgrade/Continue to monitor
Monta Vista 230/115 kV Trans No. 3	MONTAVIS 230/115KV TB 4 & MONTAVIS 230/115KV TB 2	P6	N-1-1	103	< 100	116	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Montavista 230 kV Bus Upgrade/Continue to monitor
	P2-4:A17:2:_MONTAVIS 230KV - SECTION 1D & 2D	P2	Breaker	NA	81	108	NA	54	NA	84	88	NA	NA	82	Project: Montavista 230 kV Bus Upgrade/Continue to monitor
Monta Vista 230/115 kV Trans No. 4	MONTAVIS 230/115KV TB 2 & MONTAVIS 230/115KV TB 3	P6	N-1-1	107	< 100	121	< 100	< 100	< 100	< 100	< 100	100	< 100	< 100	Project: Montavista 230 kV Bus Upgrade/Continue to monitor
Monta Vista-Hicks 230 kV Line	P2-4:A18:1:_METCALF 230KV - SECTION 1D & 1E	P2	Breaker	88	70	104	83	62	106	95	103	90	83	71	Continue to monitor
Monta Vista-Jefferson #1 230kV Line	POTRERO-TBC & MONTA VISTA-JEFFERSON #2 230KV [5230]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	105	< 100	< 100	< 100	Continue to monitor
Monta Vista-Jefferson #2 230kV Line	POTRERO-TBC & MONTAVIS-JEFFERSON 230KV [0]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	105	< 100	< 100	< 100	Continue to monitor
Moraga - San Leandro 115 kV Line	MORAGA-SAN LEANDRO #1 115KV [2770] & MORAGA-SAN LEANDRO #2 115KV [2780]	P6	N-1-1	< 100	< 100	131	< 100	< 100	< 100	101	122	< 100	< 100	< 100	Continue to monitor
	P2-2:A8:64:_MORAGA.E 115KV SECTION 2E	P2	Bus	81	88	108	60	65	69	82	99	82	60	89	Continue to monitor
	P2-4:A16:15:_EASTSHRE 115KV - SECTION 1D & 1E	P2	Breaker	84	85	110	65	49	73	81	95	70	65	86	Continue to monitor
	P2-4:A8:45:_MORAGA.D SECTION 2D & MORAGA.E SECTION 2E 115KV	P2	Breaker	72	83	117	51	63	60	75	105	72	51	84	Continue to monitor
	P5-5C:A16:5:_EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	85	88	113	66	49	74	83	97	70	66	88	Continue to monitor
	RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS & MORAGA-SAN LEANDRO #2 115KV [2780]	P3	N-1-1	< 100	< 100	111	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Moraga - Sobrante 115 kV Line	P2-2:A8:17:_SOBRANTE 230KV SECTION 1D	P2	Bus	91	NA	NA	99	NA	92	NA	NA	105	99	NA	Project: Moraga-Sobrante 115 kV Line Reconstructor
	P2-3:A8:13:_SOBRANTE - 1D 230KV & IGNACIO-SOBRANTE LINE	P2	Breaker	92	NA	NA	100	NA	92	NA	NA	105	100	NA	Project: Moraga-Sobrante 115 kV Line Reconstructor
	P2-4:A8:8:_SOBRANTE 230KV - SECTION 2D & 1D	P2	Breaker	95	NA	NA	101	NA	92	NA	NA	113	101	NA	Project: Moraga-Sobrante 115 kV Line Reconstructor
	P2-4:A8:9:_MORAGA 230KV - SECTION 2D & 1D	P2	Breaker	100	NA	NA	91	NA	81	NA	NA	Diverge	91	NA	Project: Moraga-Sobrante 115 kV Line Reconstructor
Moraga - Station X 115 kV Line	K-D #1 115KV [9966] & K-D #2 115KV [9967]	P6	N-1-1	109	103	118	126	< 100	110	< 100	124	112	126	105	Review project: Moraga - Oakland X Rebuild
	P2-2:A7:26:_STATIN X 115KV SECTION 1D	P2	Bus	80	57	68	101	60	88	81	88	90	101	59	Review project: Moraga - Oakland X Rebuild
	P2-2:A8:65:_MORAGA.E 115KV SECTION 1E	P2	Bus	71	51	290	90	52	80	74	210	78	90	52	Review project: Moraga - Oakland X Rebuild
	P2-4:A7:8:_CLARMNT 115KV - SECTION 2D & 1D	P2	Breaker	109	103	117	126	100	110	114	124	112	126	104	Review project: Moraga - Oakland X Rebuild
	P2-4:A8:29:_MORAGA.C 115KV - SECTION 1C & 2C	P2	Breaker	88	31	46	111	28	98	73	77	106	111	35	Review project: Moraga - Oakland X Rebuild
	P2-4:A8:46:_MORAGA.D SECTION 1D & MORAGA.E SECTION 1E 115KV	P2	Breaker	91	65	76	116	66	103	95	98	100	116	67	Review project: Moraga - Oakland X Rebuild
	P5-5C:A7:7:_CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	109	103	117	126	100	110	114	124	112	126	104	Review project: Moraga - Oakland X Rebuild
Moraga 230/115kV Transformer #1	MORAGA 230/115KV TB 3 & MORAGA 230/115KV TB 2	P6	N-1-1	103	< 100	< 100	< 100	< 100	113	< 100	< 100	< 100	< 100	< 100	Load Flow under review
	P2-4:A8:45:_MORAGA.D SECTION 2D & MORAGA.E SECTION 2E 115KV	P2	Breaker	112	67	61	118	34	122	95	60	122	118	70	Load Flow under review
	MORAGA 230/115KV TB 2 & MORAGA 230/115KV TB 3	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	112	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P2-4:A8:45:_MORAGA.D SECTION 2D & MORAGA.E SECTION 2E 115KV	P2	Breaker	107	63	57	111	34	121	95	58	118	111	67	Load Flow under review
Moraga 230/115kV Transformer #2	MORAGA 230/115KV TB 1 & MORAGA 230/115KV TB 3	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	115	< 100	< 100	< 100	< 100	< 100	Load Flow under review
Moraga-Castro Valley 230kV Line	P2-4:A16:25:_NEWARK D SECTION 2D & NEWARK E SECTION 2E 230KV	P2	Breaker	65	95	105	48	44	23	48	69	49	49	96	Continue to monitor
	TESLA-NEWARK #2 230KV [5354] & TESLA-NEWARK #1 230KV [5720]	P6	N-1-1	< 100	< 100	110	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	C-X #2 115KV [9962] & C-X #3 115KV [9925]	P6	N-1-1	< 100	< 100	< 100	112	< 100	106	< 100	< 100	111	112	< 100	Generation redispatch

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)									Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast		
Moraga-Claremont #1 115kV Line	DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS & MORAGA-CLAREMONT #2 115KV [2710]	P3	N-1-1	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	Generation redispatch	
	P2-2:A7:14:_CLARMNT 115KV SECTION 2D	P2	Bus	98	94	114	109	85	116	122	135	95	109	95	Continue to monitor	
	P2-2:A7:19:_OAK C115 115KV SECTION ME	P2	Bus	81	31	49	92	26	103	80	84	102	92	35	Generation redispatch	
	P2-2:A8:61:_MORAGA.C 115KV SECTION 2C	P2	Bus	73	27	119	89	5	94	74	146	85	89	28	Continue to monitor	
	P2-3:A7:19:_CLARMNT - 2D 115KV & SOBRANTE-GRIZZLY-CLAREMONT #2 LINE	P2	Breaker	98	94	114	109	85	116	122	135	95	109	95	Continue to monitor	
	P2-3:A7:20:_CLARMNT - 2D 115KV & SOBRANTE-GRIZZLY-CLAREMONT #1 LINE	P2	Breaker	98	94	114	109	85	116	122	135	95	109	95	Continue to monitor	
	P2-3:A7:21:_OAK C115 - ME 115KV & OAKLAND C-MARITIME LINE	P2	Breaker	81	31	49	92	26	103	80	84	102	92	35	Generation redispatch	
	P2-3:A8:13:_SOBRANTE - 1D 230KV & IGNACIO-SOBRANTE LINE	P2	Breaker	92	73	84	101	53	107	100	114	97	101	74	Generation redispatch	
	P2-4:A7:11:_OAK C115 115KV - SECTION ME & 1E	P2	Breaker	80	30	48	91	25	102	79	83	101	91	33	Generation redispatch	
	P2-4:A7:14:_STATIN X 115KV - SECTION 2D & 1D	P2	Breaker	103	54	82	128	51	133	111	119	119	128	57	Load Flow under review	
	P2-4:A8:8:_SOBRANTE 230KV - SECTION 2D & 1D	P2	Breaker	93	73	84	102	53	107	100	113	102	102	74	Generation redispatch	
	P5-5C:A7:11:_OAKLAND X 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	93	44	59	116	44	115	93	98	113	116	47	Install redundant battery supply	
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	62	13	21	91	3	108	40	39	59	91	12	Generation redispatch	
	SOBRANTE 230/115KV TB 1 & SOBRANTE 230/115KV TB 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	106	100	114	< 100	< 100	< 100	Generation redispatch	
Moraga-Claremont #2 115kV Line	C-X #2 115KV [9962] & C-X #3 115KV [9925]	P6	N-1-1	< 100	< 100	< 100	112	< 100	106	< 100	< 100	111	112	< 100	Generation redispatch	
	DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS & MORAGA-CLAREMONT #1 115KV [2700]	P3	N-1-1	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	Generation redispatch	
	P2-2:A7:19:_OAK C115 115KV SECTION ME	P2	Bus	81	31	49	92	26	103	80	84	102	92	35	Generation redispatch	
	P2-2:A8:17:_SOBRANTE 230KV SECTION 1D	P2	Bus	91	73	84	101	53	107	100	114	97	101	74	Generation redispatch	
	P2-3:A7:21:_OAK C115 - ME 115KV & OAKLAND C-MARITIME LINE	P2	Breaker	81	31	49	92	26	103	80	84	102	92	35	Generation redispatch	
	P2-3:A8:13:_SOBRANTE - 1D 230KV & IGNACIO-SOBRANTE LINE	P2	Breaker	92	73	84	101	53	107	100	114	97	101	74	Generation redispatch	
	P2-4:A7:11:_OAK C115 115KV - SECTION ME & 1E	P2	Breaker	80	30	48	91	25	102	79	83	101	91	33	Generation redispatch	
	P2-4:A7:14:_STATIN X 115KV - SECTION 2D & 1D	P2	Breaker	103	54	82	128	51	133	111	119	119	128	57	Project: Northern Oakland Reinforcement project	
	P2-4:A8:8:_SOBRANTE 230KV - SECTION 2D & 1D	P2	Breaker	93	73	84	102	53	107	100	113	102	102	74	Generation redispatch	
	P5-5C:A7:11:_OAKLAND X 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	93	44	59	116	44	115	93	98	113	116	47	Install redundant battery supply	
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	62	13	21	91	3	108	40	39	59	91	12	Generation redispatch	
	SOBRANTE 230/115KV TB 1 & SOBRANTE 230/115KV TB 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	106	100	114	< 100	< 100	< 100	Generation redispatch	
	Moraga-Lakewood 115kV Line (Lakewood Reactors)	P2-4:A8:32:_PITTSBURG-D 115KV - SECTION 1D & 2D	P2	Breaker	70	29	159	55	13	27	2	13	71	55	31	Continue to monitor
		P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	40	13	17	23	47	8	24	33	131	23	12	Sensitivity only
Moraga-Oakland J 115kV Line	P1-2:A16:30:_SAN LEANDRO-OAKLND J #1 115KV [3520]	P1	N-1	84	92	115	62	79	61	77	101	96	62	94	Continue to monitor	
	P2-2:A16:21:_SN LNDRO 115KV SECTION MD	P2	Bus	84	92	115	62	79	61	77	101	96	62	94	Continue to monitor	
	P2-4:A16:11:_SN LNDRO 115KV - SECTION MD & 1D	P2	Breaker	90	97	121	66	82	66	83	107	100	66	99	Continue to monitor	
	P2-4:A16:12:_EASTSHRE 115KV - SECTION ME & MD	P2	Breaker	92	88	119	80	59	97	100	111	81	80	89	Continue to monitor	
	P1-2:A16:27:_MORAGA-SAN LEANDRO #3 115KV [2790]	P1	N-1	83	86	113	63	63	72	83	101	83	63	88	Continue to monitor	
	P1-2:A16:28:_MORAGA-SAN LEANDRO #2 115KV [2780]	P1	N-1	80	84	110	61	61	70	80	98	81	61	85	Continue to monitor	
	P2-2:A16:20:_SN LNDRO 115KV SECTION 2E	P2	Bus	80	84	110	61	61	70	80	98	81	61	85	Continue to monitor	

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Moraga-San Leandro #1 115kV Line	P2-2:A8:64: MORAGA.E 115KV SECTION 2E	P2	Bus	95	102	125	70	76	80	95	114	96	70	103	Continue to monitor
	P2-4:A16:12: EASTSHRE 115KV - SECTION ME & MD	P2	Breaker	86	83	114	74	51	90	93	103	75	74	83	Continue to monitor
	P2-4:A16:15: EASTSHRE 115KV - SECTION 1D & 1E	P2	Breaker	98	99	128	76	57	84	94	109	81	76	100	Continue to monitor
	P2-4:A8:45: MORAGA.D SECTION 2D & MORAGA.E SECTION 2E 115KV	P2	Breaker	84	97	136	59	73	69	86	121	83	59	98	Continue to monitor
	P5-5C:A16:11: EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	86	83	114	74	51	90	93	103	75	74	83	Continue to monitor
	P5-5C:A16:5: EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	99	102	132	77	58	85	96	112	81	77	103	Install redundant battery supply
	P5-5C:A16:7: NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	85	84	Diverge	64	57	66	74	99	Diverge	64	86	Install redundant battery supply
Moraga-San Leandro #2 115kV Line	P7-1:A16:2: GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	86	83	114	74	51	90	93	103	75	74	84	Continue to monitor
	P1-2:A16:27: MORAGA-SAN LEANDRO #3 115KV [2790]	P1	N-1	84	87	114	64	64	73	84	102	84	64	89	Continue to monitor
	P1-2:A16:29: MORAGA-SAN LEANDRO #1 115KV [2770]	P1	N-1	81	84	111	62	62	70	81	99	81	62	86	Continue to monitor
	P1-2:A8:45: MORAGA-OAKLAND J 115KV [2760]	P1	N-1	74	77	100	56	57	63	73	89	75	56	78	Continue to monitor
	P2-4:A16:10: SN LNDRO 115KV - SECTION 1E & 1D	P2	Breaker	79	87	116	58	73	59	73	98	88	59	89	Continue to monitor
	P2-4:A16:12: EASTSHRE 115KV - SECTION ME & MD	P2	Breaker	87	83	115	74	52	91	94	104	76	74	84	Continue to monitor
	P5-5C:A16:11: EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	87	83	115	74	52	91	94	104	76	74	84	Continue to monitor
Moraga-Station X 115 kV #1 Line	P5-5C:A16:7: NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	86	85	Diverge	64	58	67	75	100	Diverge	65	87	Continue to monitor
	P7-1:A16:2: GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	87	83	115	74	52	91	94	104	76	74	84	Continue to monitor
	K-D #2 115KV [9967] & K-D #1 115KV [9966]	P6	N-1-1	110	104	120	127	101	111	115	125	113	127	106	Review project: Moraga - Oakland X Rebuild
	MORAGA-OAKLAND #2 115KV [2730] & D-L #1 115KV [9963]	P6	N-1-1	< 100	< 100	< 100	126	101	103	107	115	103	125	< 100	Review project: Moraga - Oakland X Rebuild
	P2-2:A7:26: STATIN X 115KV SECTION 1D	P2	Bus	81	58	69	101	61	88	82	89	91	101	60	Review project: Moraga - Oakland X Rebuild
	P2-2:A8:62: MORAGA.D 115KV SECTION 2D	P2	Bus	67	50	151	86	51	76	71	165	73	86	51	Review project: Moraga - Oakland X Rebuild
	P2-2:A8:65: MORAGA.E 115KV SECTION 1E	P2	Bus	71	52	168	90	53	80	75	158	78	90	54	Review project: Moraga - Oakland X Rebuild
Moraga-Station X 115 kV #3 Line	P2-4:A7:8: CLARMNT 115KV - SECTION 2D & 1D	P2	Breaker	110	104	119	126	101	111	115	125	113	126	106	Review project: Moraga - Oakland X Rebuild
	P2-4:A8:29: MORAGA.C 115KV - SECTION 1C & 2C	P2	Breaker	88	32	46	112	29	98	74	77	106	112	35	Review project: Moraga - Oakland X Rebuild
	P2-4:A8:31: MORAGA.E 115KV - SECTION 2E & 1E	P2	Breaker	96	73	89	118	73	106	100	109	105	118	75	Review project: Moraga - Oakland X Rebuild
	P2-4:A8:45: MORAGA.D SECTION 2D & MORAGA.E SECTION 2E 115KV	P2	Breaker	80	61	82	104	64	92	87	104	86	104	63	Review project: Moraga - Oakland X Rebuild
	P5-5C:A7:7: CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	110	104	119	126	101	111	115	125	113	126	106	Review project: Moraga - Oakland X Rebuild
	K-D #1 115KV [9966] & K-D #2 115KV [9967]	P6	N-1-1	109	103	118	126	< 100	110	< 100	124	112	126	105	Review project: Moraga - Oakland X Rebuild
	P2-2:A7:25: STATIN X 115KV SECTION 2D	P2	Bus	90	65	79	115	66	102	94	102	99	115	67	Review project: Moraga - Oakland X Rebuild
Moraga-Station X 115 kV #3 Line	P2-4:A7:8: CLARMNT 115KV - SECTION 2D & 1D	P2	Breaker	109	103	117	126	100	110	114	124	112	126	104	Review project: Moraga - Oakland X Rebuild
	P2-4:A8:29: MORAGA.C 115KV - SECTION 1C & 2C	P2	Breaker	88	31	46	111	28	98	73	77	106	111	35	Review project: Moraga - Oakland X Rebuild
Moraga-Station X 115 kV #3 Line	P2-4:A8:45: MORAGA.D SECTION 2D & MORAGA.E SECTION 2E 115KV	P2	Breaker	78	59	80	102	62	90	85	103	84	102	61	Review project: Moraga - Oakland X Rebuild

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)									Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast		
	P5-5C:A7:7:_CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	109	103	117	126	100	110	114	124	112	126	104	Review project: Moraga - Oakland X Rebuild	
Morgan Hill - AWS Gilroy 115 kV Line	SSS 230/230KV TB 1 & MTCALF D-LLAGAS 115KV [0]	P6	N-1-1	< 100	< 100	119	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	
Mountain View-Monta Vista 115 kV Line	MORAGA 230/115KV TB 3 & WHISMAN-MONTA VISTA 115KV [1010]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	107	< 100	< 100	< 100	< 100	< 100	Load Flow under review	
	NEWARK-RAVENSWOOD 230KV [5936] & WHISMAN-MONTA VISTA 115KV [1010]	P6	N-1-1	101	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load Flow under review	
	P1-2:A17:23:_WHISMAN-MONTA VISTA 115KV [1010]	P1	N-1	90	68	89	72	61	99	81	77	103	72	70	Sensitivity only	
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	103	83	Diverge	82	59	99	79	92	Diverge	82	85	Install redundant battery supply	
	P7-1:A10:2_Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	90	67	89	78	60	101	80	77	Diverge	78	68	Load Flow under review	
	P7-1:A10:4_Monta Vista-Jefferson Nos. 1 & 2 230 kV lines	P7	DCTL	86	67	95	77	62	104	88	88	96	77	68	Load Flow under review	
	P7-1:A17:10_Britton-Monta Vista & Lawrence-Monta Vista 115 kV Lines	P7	DCTL	89	69	91	71	58	94	77	75	101	71	70	Sensitivity only	
	PITTSBURG.E-SAN MATEO 230KV [5463] & WHISMAN-MONTA VISTA 115KV [1010]	P6	N-1-1	< 100	< 100	106	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	
	RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS & WHISMAN-MONTA VISTA 115KV [1010]	P3	N-1-1	106	< 100	101	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	Load Flow under review	
Newark 115/60kV Transformer #1	LS PSTAS 230/60KV TB 4 & SANRAMON 230/60KV TB 1	P6	N-1-1	< 100	< 100	126	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	
Newark 230/115kV Transformer #11	SSS 230/230KV TB 1 & NEWARK D 230/115KV TB 7	P6	N-1-1	< 100	< 100	108	< 100	< 100	< 100	< 100	101	< 100	< 100	< 100	Continue to monitor	
Newark F - Ringswood 115 kV Line	NEWARK-MILPITAS #1 115KV [3070] MOAS OPENED ON NEWARK F & SWIFT-METCALF 115KV [3900]	P6	N-1-1	108	109	179	< 100	< 100	< 100	< 100	135	< 100	< 100	110	Under review	
Newark-Dixon Landing 115kV Line	P1-2:A18:44:_MCKEE-PIERCY 115KV [2379]	P1	N-1	110	73	97	86	35	78	59	69	92	86	74	Project: Metcalf – Piercy & Swift – Metcalf and Newark – Dixon Landing 115 kV Upgrade	
	P1-2:A18:52:_PIERCY-METCALF 115KV [4318]	P1	N-1	130	86	119	101	38	90	69	82	105	101	87	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	
	P2-2:A18:43:_MTCALF E 115KV SECTION 2E	P2	Bus	130	86	119	102	38	90	69	82	104	102	87	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	
	P2-2:A18:54:_PIERCY 115KV SECTION 1D	P2	Bus	110	73	97	87	35	78	59	69	92	87	74	Project: Metcalf – Piercy & Swift – Metcalf and Newark – Dixon Landing 115 kV Upgrade	
	P2-4:A18:31:_MTCALF D SECTION 2D & MTCALF E SECTION 2E 115KV	P2	Breaker	130	86	119	102	38	90	69	82	105	102	87	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	
	P7-1:A18:5_McKee - Piercy & Milpitas - Swift 115 kV Lines	P7	DCTL	111	73	97	87	35	78	59	69	93	87	74	Project: Metcalf – Piercy & Swift – Metcalf and Newark – Dixon Landing 115 kV Upgrade	
	P7-1:A18:6_Swift - Metcalf & Piercy - Metcalf 115 kV Lines	P7	DCTL	131	87	120	102	38	91	69	82	105	102	88	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	
Newark-Jarvis #1 115kV Line	P1-2:A16:42:_NEWARK-JARVIS #2 115KV [3030]	P1	N-1	127	92	101	83	37	106	63	71	113	83	92	Project: SBL Newark - Jarvis 115 kV	
	P2-1:A16:14:_NEWARK-JARVIS #2 115KV [3030] (NUMI JCT-JARVIS)	P2	Line Section w/o Fault	127	92	101	83	37	106	63	71	113	83	92	Project: SBL Newark - Jarvis 115 kV	
	P2-1:A16:7:_NEWARK-JARVIS #2 115KV [3030] (NEWARK D-NUMI JCT)	P2	Line Section w/o Fault	127	91	101	83	37	106	63	71	112	83	92	Project: SBL Newark - Jarvis 115 kV	
Newark-Jarvis #2 115kV Line	P1-2:A16:41:_NEWARK-JARVIS #1 115KV [3020]	P1	N-1	95	91	101	62	37	61	64	71	84	62	92	Continue to monitor	
Newark-Kifer 115kV Line	FMC-SAN JOSE B 115KV [2021] & KRS-Duane 115 kv	P6	N-1-1	106	< 100	< 100	< 100	< 100	< 100	< 100	< 100	110	< 100	< 100	Project: San Jose area HVDC	
	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalf 230 kV Lines	P7	DCTL	77	37	55	58	27	40	11	40	105	58	38	Sensitivity only	
	SVP2-4:6:_NRS 400 115 kv bus tie breaker to NRS 300 115 kv bus	P2	Bus/Breaker	228	NA	NA	156	NA	118	NA	NA	251	156	NA	Project: NRS rebuild project	
Newark-Livermore 60kV Line	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	82	76	Diverge	64	43	31	40	70	Diverge	64	79	Install redundant battery supply	
Newark-Milpitas #1 115kV Line	NEWARK F-RINGWOODSWST #1 115KV [0] & SWIFT-METCALF 115KV [3900]	P6	N-1-1	< 100	100	167	< 100	< 100	< 100	< 100	135	< 100	< 100	102	Continue to monitor	

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Newark-Northern Receiving Station #1 115kV Line	LOS ESTEROS-METCALF 230KV [5353] & NEWARK E-F BUS TIE 230KV [4640]	P6	N-1-1	113	< 100	< 100	< 100	< 100	< 100	< 100	< 100	106	< 100	< 100	Project: San Jose area HVDC
	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalf 230 kV Lines	P7	DCTL	96	51	65	71	18	37	11	46	125	70	53	Sensitivity only
	SSS 230/230KV TB 1 & NRS-NEWARK HVDC VSC	P6	N-1-1	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Newark-Northern Receiving Station #2 115kV Line	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalf 230 kV Lines	P7	DCTL	81	33	52	60	22	40	9	37	119	60	35	Sensitivity only
Newark-Trimble 115kV Line	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalf 230 kV Lines	P7	DCTL	73	39	40	49	15	31	12	33	106	49	40	Sensitivity only
Newark-Vallecitos 60kV Line	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	68	70	Diverge	53	44	25	37	70	Diverge	53	72	Install redundant battery supply
Nortech-NRS 115 kV Line	DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units & SSS 230/230KV TB 1	P3	N-1-1	105	< 100	134	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	Load forecast under review
	NEWARK-NORTHERN RECEIVING STATION #1 115KV [3100] & NRS T2	P6	N-1-1	126	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: San Jose area HVDC
	SSS-NRSrser SVP 230 kV path & FMC-SAN JOSE B 115KV [2021]	P6	N-1-1	112	< 100	< 100	106	< 100	< 100	< 100	< 100	109	106	< 100	Project: San Jose area HVDC
North Dublin-Cayetano 230kV Cable	P2-4:A16:24:_NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	69	83	103	56	54	45	77	89	Diverge	57	87	Continue to monitor
North Dublin-Vineyard 230 kV Line	P2-4:A16:24:_NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	74	90	109	59	61	46	83	95	Diverge	61	94	Continue to monitor
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	92	79	104	76	36	66	76	79	Diverge	78	84	Continue to monitor
	TESLA-NEWARK #1 230KV [5720] & TESLA-NEWARK #2 230KV [5354]	P6	N-1-1	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Northern Receiving Station 230/115 kV Transformer #3	NRS T2 & NRS T2 Spare	P6	N-1-1	< 100	< 100	< 100	< 100	102	< 100	112	< 100	< 100	< 100	< 100	Continue to monitor
	SVP5-5:1_Single DC Supply Failure at NRS400 115kV bus	P5	Non-Redundent battery supply/Relay	NA	114	114	30	59	29	64	66	NA	30	114	Install redundant battery supply
NRS 230 kV Bus-Tie	LOS ESTEROS-NORTECH 115KV [4032] & NRS-NRSrser SVP 230 kV UG cable	P6	N-1-1	102	< 100	< 100	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	Project: San Jose area HVDC
	NRS-NRSrser SVP 230 kV UG cable & NRS-NEWARK HVDC VSC	P6	N-1-1	< 100	103	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	103	Continue to monitor
NRS 230/115KV TB 1	P1-2:A18:20:_LOS ESTEROS-NORTECH 115KV [4032]	P1	N-1	106	57	61	28	52	28	55	58	102	28	58	Project: NRS 230/115 kV bank addition
	P1-2:A18:58:_NORTECH-NORTHERN RECEIVING STATION 115KV [1551]	P1	N-1	103	56	60	27	51	27	54	57	99	27	56	Project: NRS 230/115 kV bank addition
	P1-3:A18:10:_LS ESTRS 230/115KV TB 4	P1	N-1	99	55	55	25	50	25	54	54	101	25	55	Sensitivity only
	P1-3:A18:9:_LS ESTRS 230/115KV TB 3	P1	N-1	99	55	55	25	50	25	54	54	101	25	55	Sensitivity only
	P2-2:A18:56:_NORTECH 115KV SECTION 1F	P2	Bus	105	57	60	28	51	28	54	58	101	28	57	Project: NRS 230/115 kV bank addition
	P2-2:A18:57:_NORTECH 115KV SECTION 1E	P2	Bus	103	56	60	27	51	27	54	57	99	27	56	Project: NRS 230/115 kV bank addition
	P2-3:A18:3:_LS ESTRS 230KV - MIDDLE BREAKER BAY 5	P2	Breaker	99	55	55	25	50	25	54	54	101	25	55	Sensitivity only
	P2-3:A18:4:_LS ESTRS 230KV - MIDDLE BREAKER BAY 6	P2	Breaker	99	55	55	25	50	25	54	54	101	25	55	Sensitivity only
	P2-3:A18:41:_LS ESTRS 115KV - MIDDLE BREAKER BAY 1	P2	Breaker	106	57	61	28	52	28	55	58	102	28	58	Project: NRS 230/115 kV bank addition
	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Breaker	100	55	55	25	50	25	52	54	102	25	55	Project: NRS 230/115 kV bank addition
	P2-4:A18:26:_NORTECH 115KV - SECTION 1F & 1E	P2	Breaker	103	56	60	27	51	27	54	57	100	27	56	Project: NRS 230/115 kV bank addition
	P5-5C:A16:16:_NEWARK D 115 & 60KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	99	55	55	25	50	25	54	54	100	25	55	Sensitivity only
	P5-5C:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	101	55	55	25	50	25	52	54	103	25	55	Project: NRS 230/115 kV bank addition

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
	P7-1:A10:2_ Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	99	56	57	26	50	26	55	55	Diverge	26	56	Sensitivity only
	P7-1:A18:1_ Newark - Northern #1 & #2 115 kV Lines	P7	DCTL	98	55	55	25	50	25	52	54	100	25	55	Sensitivity only
	SVP5-5:2_Single DC Supply Failure at NRS300 115kV bus	P5	Non-Redundent battery supply/Relay	102	50	53	47	59	47	64	66	98	47	50	Project: NRS 230/115 kV bank addition
NRS-Scott No. 1 115 kV Line	DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units & NRS-SRS#2 115 kV	P3	N-1-1	121	< 100	< 100	< 100	< 100	< 100	< 100	< 100	114	< 100	< 100	Project: NRS rebuild project
	FMC-SAN JOSE B 115KV [2021] & NRS-SRS#2 115 kV	P6	N-1-1	114	< 100	< 100	< 100	< 100	< 100	< 100	< 100	114	< 100	< 100	Project: NRS rebuild project
	NRS-SRS#2 115 kV & new SVP 115kV line - NRS-KRS 115 kV	P6	N-1-1	< 100	108	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	109	Project: NRS rebuild project
	SVP2-2:2_ NRS 300 115 kV bus	P2	Bus/Breaker	102	NA	NA	63	NA	50	NA	NA	99	63	NA	Project: NRS rebuild project
	SVP5-5:2_Single DC Supply Failure at NRS300 115kV bus	P5	Non-Redundent battery supply/Relay	102	85	101	63	35	50	30	47	99	63	85	Project: NRS rebuild project
NRS-Scott No. 2 115 kV Line	DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units & NRS-SRS#1 115 kV	P3	N-1-1	121	< 100	< 100	< 100	< 100	< 100	< 100	< 100	114	< 100	< 100	Project: SRS rebuild project
	FMC-SAN JOSE B 115KV [2021] & NRS-SRS#1 115 kV	P6	N-1-1	114	< 100	< 100	< 100	< 100	< 100	< 100	< 100	114	< 100	< 100	Project: SRS rebuild project
	NRS-SRS#1 115 kV & new SVP 115kV line - NRS-KRS 115 kV	P6	N-1-1	< 100	108	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	108	Continue to monitor
Oakland C - Oakland L #1 115kV Cable	K-D #1 115KV [9966] & K-D #2 115KV [9967]	P6	N-1-1	134	121	143	106	< 100	129	< 100	144	122	105	122	Load forecast under review
	P2-2:A8:75_ MORAGA.D 115KV SECTION 1E	P2	Bus	33	90	118	64	110	55	91	111	34	64	87	Continue to monitor
	P2-4:A7:14_ STATIN X 115KV - SECTION 2D & 1D	P2	Breaker	67	67	98	128	104	120	126	138	90	128	68	Load forecast under review
	P2-4:A7:8_ CLARMNT 115KV - SECTION 2D & 1D	P2	Breaker	134	120	142	105	81	129	132	144	122	105	122	Load forecast under review
	P2-4:A8:29_ MORAGA.C 115KV - SECTION 1C & 2C	P2	Breaker	89	45	57	80	68	97	28	19	109	80	39	Sensitivity only
	P2-4:A8:30_ MORAGA.D 115KV - SECTION 2D & 1D	P2	Breaker	33	90	118	64	110	55	91	111	34	64	87	Continue to monitor
	P5-5C:A7:7_ CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	134	120	142	105	81	129	132	144	122	105	122	Install redundant battery supply
	P5-5C:A8:8_ MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	127	182	244	149	180	150	206	247	Diverge	149	182	Install redundant battery supply
Oakland C - Oakland X #2 115kV Cable	C-X #3 115KV [9925] & D-L #1 115KV [9963]	P6	N-1-1	110	103	< 100	149	132	131	135	143	< 100	149	104	Load forecast under review
	DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS & C-X #3 115KV [9925]	P3	N-1-1	< 100	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	104	< 100	Generation redispatch
	K-D #1 115KV [9966] & K-D #2 115KV [9967]	P6	N-1-1	112	105	107	127	108	129	< 100	145	< 100	127	106	Load forecast under review
	P1-2:A7:29_ C-X #3 115KV [9925]	P1	N-1	77	46	39	98	59	92	79	83	100	98	49	Sensitivity only
	P2-4:A7:8_ CLARMNT 115KV - SECTION 2D & 1D	P2	Breaker	112	105	106	126	108	129	133	145	124	126	106	Load forecast under review
	P2-4:A8:29_ MORAGA.C 115KV - SECTION 1C & 2C	P2	Breaker	87	19	27	109	22	110	71	72	117	109	22	Generation redispatch
	P5-5C:A7:7_ CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	112	105	106	126	108	129	133	145	124	126	106	Install redundant battery supply
	P5-5C:A8:8_ MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	47	80	109	27	56	44	75	95	Diverge	27	80	Install redundant battery supply
	C-X #3 115KV [9925] & C-X #2 115KV [9962]	P6	N-1-1	< 100	< 100	< 100	135	117	116	119	125	123	135	< 100	Operating solution
	K-D #1 115KV [9966] & K-D #2 115KV [9967]	P6	N-1-1	< 100	< 100	100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	Operating solution
	P2-2:A7:19_ OAK C115 115KV SECTION ME	P2	Bus	74	63	66	81	75	98	100	102	101	81	64	Continue to monitor
	P2-2:A8:60_ MORAGA.C 115KV SECTION 1C	P2	Bus	17	89	84	30	101	16	25	31	18	30	82	Generation redispatch
	P2-2:A8:62_ MORAGA.D 115KV SECTION 2D	P2	Bus	40	62	122	60	78	51	68	103	45	60	61	Continue to monitor
	P2-2:A8:65_ MORAGA.E 115KV SECTION 1E	P2	Bus	35	57	132	54	75	44	62	138	39	54	56	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Oakland D - Oakland L 115kV Cable	P2-3:A7:21:_OAK C115 - ME 115KV & OAKLAND C-MARITIME LINE	P2	Breaker	74	63	66	81	75	98	100	102	101	81	64	Continue to monitor
	P2-3:A8:52:_MORAGA.C - 1C 115KV & MORAGA-LAKEWOOD LINE	P2	Breaker	17	89	39	30	101	16	25	45	18	30	82	Generation redispatch
	P2-4:A7:14:_STATIN X 115KV - SECTION 2D & 1D	P2	Breaker	119	112	140	163	134	162	168	180	139	163	114	Load forecast under review
	P2-4:A8:30:_MORAGA.D 115KV - SECTION 2D & 1D	P2	Breaker	86	132	157	97	141	97	133	153	84	97	130	Load forecast under review
	P5-5C:A7:11:_OAKLAND X 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	95	87	83	134	117	116	119	125	122	134	88	Install redundant battery supply
	P5-5C:A7:7:_CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	81	75	99	69	51	87	90	102	72	69	76	Generation redispatch
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	179	226	286	186	211	194	249	290	Diverge	186	227	Install redundant battery supply
Oleum-EI Cerrito STA G #1 115kV Line	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	90	37	50	114	19	92	35	42	72	114	37	Project: Christie-Sobrante 115 kV Line Reconnector
Oleum-EI Cerrito STA G #2 115kV Line	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	87	43	64	117	21	110	46	55	66	117	43	Project: Christie-Sobrante 115 kV Line Reconnector
Oleum-Martinez 115kV Line	P5-5C:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	274	218	108	414	102	359	281	137	180	414	221	Install redundant battery supply
Parkway - Moraga 230 kV	P2-4:A8:12:_C.COSTAPPE 230KV - SECTION 2E & 1E	P2	Breaker	76	56	53	59	29	59	35	48	101	59	54	Sensitivity only
	P5-5C:A8:2:_CONTRA COSTA PP 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	87	57	58	71	31	71	42	56	110	71	56	Sensitivity only
Piercy-Metcalf 115 kV Line	NEWARK-DIXON LANDING 115KV [2990] & METCALF SVD=V	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	Sensitivity only
	P1-2:A16:52:_NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	122	88	118	94	37	86	67	80	98	94	89	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade
	P2-2:A16:42:_NEWARK F 115KV SECTION 2F	P2	Bus	122	88	118	94	37	86	67	80	98	94	89	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade
	P2-3:A16:15:_NEWARK F - 2F 115KV & NEWARK-NUMMI LINE	P2	Breaker	122	88	118	94	37	86	67	80	98	94	89	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade
	P2-3:A16:16:_NEWARK F - 2F 115KV & NEWARK F-LOCKHD 2-APP MAT LINE	P2	Breaker	122	87	118	94	37	86	67	80	97	94	89	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade
	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Breaker	124	88	120	94	37	86	67	80	99	94	90	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade
	P5-5C:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	124	88	121	94	37	86	67	80	98	94	90	Install redundant battery supply
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	100	68	Diverge	83	40	93	66	83	Diverge	83	69	Install redundant battery supply
	P7-1:A16:1:_NEWARK-DIXON LANDING & NEWARK-MILPITAS #1 LINES	P7	DCTL	123	88	119	94	37	86	67	80	98	94	89	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
	P7-1:A18:2_ Newark - Dixon Landing & Newark - Milpitas #1 115 kV Lines	P7	DCTL	123	88	119	94	37	86	67	80	98	94	89	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade
Pittsburg - Clayton 115 kV Line	P1-2:A8:43:_ PITTSBURG.D-CLAYTON #3 115KV [3290]	P1	N-1	48	55	104	39	22	38	45	81	32	39	55	Continue to monitor
	P2-1:A8:38:_ PITTSBURG.D-CLAYTON #3 115KV [3290] (CLAYTN-KIRKTAP1)	P2	Line Section w/o Fault	48	55	104	39	22	38	45	81	32	39	55	Continue to monitor
	P2-2:A8:66:_ PITTSBURG-D 115KV SECTION 1D	P2	Bus	48	55	Diverge	39	22	38	46	68	33	39	55	Continue to monitor
	P2-3:A8:53:_ PITTSBURG-D - 1D 115KV & PITTSBURG-D-CLMBIAHS LINE	P2	Breaker	48	55	Diverge	39	23	38	46	65	33	39	55	Continue to monitor
	P2-3:A8:54:_ PITTSBURG-D - 1D 115KV & PITTSBURG.D-CLAYTON #3 LINE	P2	Breaker	48	55	Diverge	39	23	38	46	68	33	39	55	Continue to monitor
	P2-4:A8:33:_ PITTSBURG-D 115KV - SECTION 1D & 1E	P2	Breaker	48	54	Diverge	39	23	38	45	55	32	39	54	Continue to monitor
Pittsburg - Kirker 115 kV Line	P2-3:A8:55:_ PITTSBURG-D - 2D 115KV & PITTSBURG.D-KIRKER-COLUMBIA STEEL LINE	P2	Breaker	61	64	Diverge	49	24	46	52	60	43	49	65	Continue to monitor
	PITTSBURG.D-KIRKER-COLUMBIA STEEL 115KV [3310] & PITTSBURG.D-CLAYTON #4 115KV [3291]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Pittsburg 230/115 kV Transformer #13	LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS & PITTSBURG-D 230/115KV TB 12	P3	N-1-1	< 100	< 100	115	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Pittsburg E - Pittsburg F 115 kV Bus Tie	P2-4:A8:32:_ PITTSBURG-D 115KV - SECTION 1D & 2D	P2	Breaker	40	51	88	34	22	41	53	101	32	34	51	Generation redispatch
Pittsburg-Clayton #3 115 kV Line	P1-2:A8:44:_ PITTSBURG.D-CLAYTON #4 115KV [3291]	P1	N-1	48	54	101	39	22	41	49	85	32	39	55	Continue to monitor
	P2-2:A8:67:_ PITTSBURG-D 115KV SECTION 2D	P2	Bus	48	54	Diverge	39	23	41	48	63	32	39	55	Continue to monitor
	P2-3:A8:55:_ PITTSBURG-D - 2D 115KV & PITTSBURG.D-KIRKER-COLUMBIA STEEL LINE	P2	Breaker	46	52	Diverge	38	22	40	47	94	31	38	53	Continue to monitor
	PITTSBURG.D-CLAYTON #4 115KV [3291] & PITTSBURG-F 230/115KV TB 14	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Pittsburg-Eastshore 230kV Line	P1-1:A16:4:_ RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P1	N-1	57	97	115	41	65	41	78	97	41	41	97	Continue to monitor
	P2-3:A16:1:_ RUSCTYEC 230KV - MIDDLE BREAKER BAY 3	P2	Breaker	44	82	101	31	65	30	65	85	41	31	82	Continue to monitor
	P2-4:A16:24:_ NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	39	81	105	26	68	25	64	89	Diverge	26	81	Continue to monitor
	P2-4:A8:31:_ MORAGA.E 115KV - SECTION 2E & 1E	P2	Breaker	43	80	102	27	69	28	63	86	54	27	81	Continue to monitor
	P5-5C:A16:7:_ NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	61	92	Diverge	40	72	36	69	103	Diverge	40	93	Install redundant battery supply
Pittsburg-Kirker-Columbia Steel #1 115 kV Line	Base Case	P0	Normal	94	87	118	73	24	39	39	43	75	73	88	Continue to monitor
Pittsburg-Martinez #1 115kV Line	P5-5C:A8:6:_ SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	86	72	84	111	33	106	89	107	79	111	73	Install redundant battery supply
Pittsburg-Martinez #2 115kV Line	P5-5C:A8:6:_ SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	81	67	76	110	31	105	86	104	76	110	68	Install redundant battery supply
Pittsburg-San Mateo 230kV Line	Base Case	P0	Normal	43	86	101	32	56	24	55	73	23	32	86	Continue to monitor
	P1-2:A10:1:_ EASTSHORE-SAN MATEO 230KV [4650]	P1	N-1	52	92	105	39	52	32	64	82	17	39	92	Continue to monitor
	P1-2:A10:3:_ NEWARK-RAVENSWOOD 230KV [5936]	P1	N-1	49	83	102	38	55	33	62	81	33	38	84	Continue to monitor
	P2-3:A16:3:_ E. SHORE 230KV - MIDDLE BREAKER BAY 4	P2	Breaker	43	92	105	32	52	24	64	82	23	32	92	Continue to monitor
	P2-4:A10:2:_ SANMATEO 230KV - SECTION 2D & 2E	P2	Breaker	57	96	110	43	55	36	68	78	24	43	96	Continue to monitor
	P2-4:A16:24:_ NEWARK D SECTION 1D & NEWARK E SECTION 1E 230KV	P2	Breaker	53	92	112	41	60	34	67	89	Diverge	41	92	Continue to monitor
	P2-4:A16:7:_ NEWARK E 230KV - SECTION 1E & 2E	P2	Breaker	49	89	107	34	57	28	61	81	31	35	88	Continue to monitor
	P5-5C:A16:5:_ EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	49	95	109	36	54	30	67	85	21	36	95	Install redundant battery supply

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)									Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast		
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	70	102	Diverge	52	64	42	72	101	Diverge	52	103	Install redundant battery supply	
	P7-1:A10:2_Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	69	101	112	56	70	52	80	90	Diverge	56	102	Generation redispatch	
Pittsburg-TBC 230kV section	LAS POSITAS-NEWARK 230KV [4980] & OLEUM-CHRISTIE-NRTH TWR-MARTNZ D 115KV [0]	P6	N-1-1	Diverge	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: North Tower 115 kV Looping project	
	P1-1:A8:12:_LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P1	N-1	95	95	95	94	92	93	92	93	101	94	95	Sensitivity only	
	P2-4:A16:25:_NEWARK D SECTION 2D & NEWARK E SECTION 2E 230KV	P2	Breaker	95	95	95	94	92	93	92	93	101	94	95	Sensitivity only	
	P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	95	95	95	95	92	93	92	93	101	95	95	Sensitivity only	
Potrero-Larkin #2 (AY-2) 115kV Cable	P1-2:A9:11:_A-X #1 115KV [9951]	P1	N-1	88	83	101	79	64	68	71	77	84	79	83	Continue to monitor	
	P2-2:A9:6:_POTRERO 115KV SECTION 2D	P2	Bus	94	84	110	90	76	74	76	79	93	90	84	Continue to monitor	
Potrero-Mission (AX) 115kV Cable	Base Case	P0	Normal	92	86	105	82	66	82	85	92	86	82	87	Continue to monitor	
	P1-2:A9:9:_A-Y #1 115KV [9952]	P1	N-1	99	92	113	87	70	87	90	98	93	87	93	Continue to monitor	
	P2-1:A9:4:_A-Y #1 115KV [9952] (LARKIN D-POTRERO)	P2	Line Section w/o Fault	99	92	113	87	70	87	90	98	93	87	93	Continue to monitor	
	P2-2:A9:1:_LARKIN D 115KV SECTION 1D	P2	Bus	99	92	113	87	70	87	90	98	93	87	93	Continue to monitor	
	P2-2:A9:4:_POTRERO 115KV SECTION 1D	P2	Bus	101	96	115	89	73	91	94	102	95	89	97	Continue to monitor	
	P2-2:A9:5:_POTRERO 115KV SECTION 2E	P2	Bus	105	83	126	88	42	62	71	76	98	88	83	Continue to monitor	
	P2-3:A9:16:_POTRERO - 1D 115KV & A-Y #1 LINE	P2	Breaker	101	96	115	89	73	91	94	102	95	89	97	Continue to monitor	
	P2-3:A9:17:_POTRERO - 2E 115KV & POTRERO-TBC_POT1 #1 LINE	P2	Breaker	105	83	126	88	42	62	71	76	98	88	83	Continue to monitor	
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	72	75	Diverge	56	48	27	40	73	Diverge	57	77	Install redundant battery supply	
Ravenswood 230/115 kV Transformer #3	RAVENSWD 230/115KV TB 2 & RAVENSWD 230/115KV TB 1	P6	N-1-1	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	
Ravenswood 230/115kV Transformer #1	P1-3:A10:5:_RAVENSWD 230/115KV TB 2	P1	N-1	103	86	67	92	56	92	79	64	95	92	87	Project: Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	
	P2-3:A10:3:_RAVENSWD 230KV - MIDDLE BREAKER BAY 2	P2	Breaker	109	89	70	99	59	100	84	67	103	98	90	Project: Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	
	WHISMAN-MONTA VISTA 115KV [1010] & RAVENSWD 230/115KV TB 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	101	< 100	< 100	< 100	< 100	< 100	Generation redispatch	
Ravenswood 230/115kV Transformer #2	RAVENSWD 230/115KV TB 3 & RAVENSWD 230/115KV TB 1	P6	N-1-1	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	
Ravenswood-Ames #1 115 kV Line	NEWARK-RAVENSWOOD 230KV [5936] & TESLA-RAVENSWOOD 230KV [5730]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	107	< 100	< 100	< 100	< 100	< 100	Project: Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	
	P7-1:A10:2_Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	90	67	75	89	63	111	93	82	Diverge	89	69	Project: Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	
Ravenswood-Ames #2 115kV Line	NEWARK-RAVENSWOOD 230KV [5936] & TESLA-RAVENSWOOD 230KV [5730]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	107	< 100	< 100	< 100	< 100	< 100	Project: Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	
	P7-1:A10:2_Newark-Ravenswood 230 kV and Tesla-Ravenswood 230 kV lines	P7	DCTL	90	67	75	89	63	111	93	82	Diverge	89	69	Project: Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	
Ravenswood-Bair #1 115kV Line	SAN MATEO-BELMONT 115KV [3570] & BAIR-RVNSWD D-LONESTAR 115KV [0]	P6	N-1-1	103	108	< 100	< 100	< 100	104	108	< 100	100	< 100	111	Project: Redwood City 115 kV System Reinforcement Project	
Ravenswood-Bair #2 115kV Line	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	< 100	< 100	123	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating solution	
	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	< 100	< 100	128	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Operating solution	
Ravenswood-Palo Alto #1 115kV Line	P7-1:A10:20_Ravenswood-Coolley Landing Nos. 1 & 2 115 kV lines	P7	DCTL	78	85	110	71	53	71	74	89	81	71	86	Continue to monitor	
	RAVENSWOOD-COOLEY LANDING #2 115KV [3400] & RAVENSWOOD-COOLEY LANDING #1 115KV [3390]	P6	N-1-1	< 100	< 100	110	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	
Ravenswood-Palo Alto #2 115kV Line	P7-1:A10:20_Ravenswood-Coolley Landing Nos. 1 & 2 115 kV lines	P7	DCTL	78	84	110	70	53	70	73	88	80	70	86	Continue to monitor	
	P7-1:A10:23_Ravenswood-Palo Alto No. 1 115 kV and Cooley Landing-Palo Alto 115 kV lines	P7	DCTL	87	88	101	81	80	74	74	83	89	81	88	Continue to monitor	
	RAVENSWOOD-COOLEY LANDING #2 115KV [3400] & RAVENSWOOD-COOLEY LANDING #1 115KV [3390]	P6	N-1-1	< 100	< 100	110	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor	

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Ringwood - Milpitas 115 kV Line	NEWARK-MILPITAS #1 115KV [3070] MOAS OPENED ON NEWARK F & SWIFT-METCALF 115KV [3900]	P6	N-1-1	< 100	< 100	136	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
San Jose 'B'-Stone-Evergreen 115 kV Line	METCALF-EVERGREEN #1 115KV [2520] & EVRGRN 1-MTCALF E #2 115KV [0]	P6	N-1-1	< 100	< 100	117	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P7-1:A18:17_Metcalf - Evergreen #1 and #2 115 kV Lines	P7	DCTL	87	80	117	67	30	62	66	81	63	67	82	Continue to monitor
	P7-1:A18:16_Metcalf - El Patio No. 1 & 2 115 kV Lines	P7	DCTL	82	9	35	65	44	79	13	26	100	65	10	Sensitivity only
San Jose Sta 'A'-B' 115 kV Line	METCALF-EL PATIO #1 115KV [2500] & METCALF-EL PATIO #2 115KV [2510]	P6	N-1-1	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P7-1:A18:11_Trimble - San Jose B & FMC - San Jose B 115 kV Lines	P7	DCTL	35	79	19	25	111	21	83	22	28	25	76	Continue to monitor
	P7-1:A18:16_Metcalf - El Patio No. 1 & 2 115 kV Lines	P7	DCTL	85	77	105	66	44	63	66	76	74	66	78	Continue to monitor
	P7-1:A18:17_Metcalf - Evergreen #1 and #2 115 kV Lines	P7	DCTL	89	6	50	74	8	89	14	33	102	74	8	Sensitivity only
	P7-1:A18:20_Newark - Los Esteros & Los Esteros - Metcalf 230 kV Lines	P7	DCTL	83	10	47	70	47	78	30	30	109	71	13	Sensitivity only
	SVP2-4:6:_NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	94	N/AC	N/AC	72	N/AC	74	N/AC	N/AC	110	72	N/AC	Project: NRS rebuild project
	TRIMBLE-SAN JOSE B 115KV [4030] & FMC-SAN JOSE B 115KV [2021]	P6	N-1-1	< 100	< 100	< 100	< 100	112	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
San Leandro - Edes 115 kV Line	MORAGA-OAKLAND J 115KV [2760] & GRANT-STATIN J-EDES 115KV [0]	P6	N-1-1	128	122	< 100	116	< 100	130	135	148	117	116	124	Under review
	P1-2:A7:5:_MORAGA-OAKLAND J 115KV [2760]	P1	N-1	75	83	103	54	74	48	63	85	89	55	84	Continue to monitor
	P2-4:A16:12:_EASTSHRE 115KV - SECTION ME & MD	P2	Breaker	93	89	119	84	64	96	99	109	84	84	89	Continue to monitor
	P2-4:A8:41:_PITTSBURG-D SECTION 1D & PITTSBURG-E SECTION 1E 230KV	P2	Breaker	70	96	118	52	82	38	71	98	74	52	97	Continue to monitor
	P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	58	88	108	41	79	26	65	90	66	42	89	Continue to monitor
	P5-5C:A16:11:_EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	93	89	119	84	64	96	99	109	84	84	89	Continue to monitor
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	54	82	105	24	69	9	53	77	74	24	83	Continue to monitor
San Leandro - Oakland J #1 115kV Line	P7-1:A16:2:_GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	93	89	119	84	64	96	100	109	84	84	90	Continue to monitor
	P1-2:A7:5:_MORAGA-OAKLAND J 115KV [2760]	P1	N-1	75	83	103	54	74	48	63	85	88	55	84	Continue to monitor
	P2-4:A16:12:_EASTSHRE 115KV - SECTION ME & MD	P2	Breaker	93	89	119	84	64	96	99	109	84	84	89	Continue to monitor
	P2-4:A8:41:_PITTSBURG-D SECTION 1D & PITTSBURG-E SECTION 1E 230KV	P2	Breaker	70	96	118	52	82	38	71	98	74	52	97	Continue to monitor
	P2-4:A8:6:_PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	58	88	108	41	79	26	65	90	66	42	89	Continue to monitor
	P5-5C:A16:11:_EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	93	89	119	84	64	96	99	109	84	84	89	Install redundant battery supply
	P5-5C:A16:5:_EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	116	123	149	89	75	88	105	124	94	89	124	Install redundant battery supply
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	99	99	Diverge	70	74	54	67	104	Diverge	71	101	Install redundant battery supply
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	54	82	105	24	69	9	53	77	74	24	83	Install redundant battery supply
	P7-1:A16:2:_GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	93	89	119	84	64	96	100	109	84	84	90	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
San Mateo 230/115 kV Transformer #5	SANMATEO 230/115KV TB 6 & SANMATEO 230/115KV TB 7	P6	N-1-1	< 100	100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	103	Project: Redwood City 115 kV System Reinforcement Project
San Mateo 230/115kV Transformer #6	P2-4:A10:3: SANMATEO 230KV - SECTION 1D & 1E	P2	Breaker	91	97	101	81	58	81	95	96	66	81	98	Continue to monitor
	SANMATEO 230/115KV TB 7 & SANMATEO 230/115KV TB 5	P6	N-1-1	< 100	100	< 100	< 100	< 100	101	< 100	108	< 100	< 100	103	Project: Redwood City 115 kV System Reinforcement Project
San Mateo 230/115kV Transformer #7	EGBERTSWSTA-JEFFERSN 230KV [0] & SANMATEO 230/115KV TB 5	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	104	< 100	< 100	< 100	Continue to monitor
	POTRERO-TBC & SANMATEO 230/115KV TB 6	P6	N-1-1	< 100	< 100	103	< 100	< 100	< 100	102	< 100	< 100	< 100	< 100	Continue to monitor
	SANMATEO 230/115KV TB 5 & SANMATEO 230/115KV TB 6	P6	N-1-1	< 100	104	< 100	< 100	< 100	103	< 100	< 100	< 100	< 100	106	Project: Redwood City 115 kV System Reinforcement Project
San Mateo-Bair 60kV Line	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	141	173	300	117	< 100	137	147	196	138	116	176	Operating solution
	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	145	180	322	119	< 100	128	138	186	141	117	184	Operating solution
San Mateo-Bair 60kV Line (San Carlos-Bair)	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	< 100	119	210	< 100	< 100	< 100	< 100	132	< 100	< 100	121	Operating solution
San Mateo-Belmont 115kV Line	P7-1:A10:19_Ravenswood-Bair Nos. 1 & 2 115 kV lines	P7	DCTL	96	105	68	84	55	94	99	55	91	84	107	Project: Redwood City 115 kV System Reinforcement Project
	RAVENSWD 230/115KV TB 1 & RAVENSWD 230/115KV TB 2	P6	N-1-1	115	122	< 100	< 100	< 100	< 100	< 100	< 100	102	< 100	123	Project: Redwood City 115 kV System Reinforcement Project
San Mateo-Hillsdale JCT 60kV Line	P2-4:A17:5: MONTAVIS 230KV - SECTION 1E & 2E	P2	Breaker	NA	83	139	NA	58	NA	111	143	NA	NA	84	Project: Monta Vista 230 kV Bus Upgrade
	P7-1:A10:4_Monta Vista-Jefferson Nos. 1 & 2 230 kV lines	P7	DCTL	67	76	128	78	50	90	103	133	42	78	77	Continue to monitor
	P7-1:A17:17_Metcalf-Monta Vista No. 3 & Monta Vista-Coyote Sw. Sta. 230 kV Line	P7	DCTL	78	83	139	88	58	99	111	143	54	88	84	Continue to monitor
San Mateo-Hillsdale JCT 60kV Line (Beresford-Hillsdale)	P2-4:A17:1: MONTAVIS 230KV - SECTION 1D & 2D	P2	Breaker	83	NA	NA	94	NA	104	NA	NA	Diverge	94	NA	Project: Monta Vista 230 kV Bus Upgrade
	P2-4:A17:5: MONTAVIS 230KV - SECTION 1E & 2E	P2	Breaker	NA	87	146	NA	66	NA	117	150	NA	NA	88	Project: Monta Vista 230 kV Bus Upgrade
	P7-1:A10:4_Monta Vista-Jefferson Nos. 1 & 2 230 kV lines	P7	DCTL	68	78	133	83	56	94	108	138	42	83	79	Continue to monitor
	P7-1:A17:17_Metcalf-Monta Vista No. 3 & Monta Vista-Coyote Sw. Sta. 230 kV Line	P7	DCTL	81	87	146	94	66	105	117	150	56	94	88	Continue to monitor
San Mateo-Hillsdale JCT 60kV Line (Hillsdale-Hillsdale JCT)	P2-4:A17:5: MONTAVIS 230KV - SECTION 1E & 2E	P2	Breaker	NA	80	126	NA	63	NA	103	128	NA	NA	81	Project: Monta Vista 230 kV Bus Upgrade
	P7-1:A10:4_Monta Vista-Jefferson Nos. 1 & 2 230 kV lines	P7	DCTL	61	70	114	74	53	82	94	117	40	74	71	Continue to monitor
	P7-1:A17:17_Metcalf-Monta Vista No. 3 & Monta Vista-Coyote Sw. Sta. 230 kV Line	P7	DCTL	74	80	126	86	63	92	103	128	54	86	81	Continue to monitor
San Mateo-Martin #2 115kV Line	EGBERTSWSTA-EMBRCDRD 230KV [0] & SAN MATEO-MARTIN 230KV [9980]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	102	< 100	< 100	< 100	Continue to monitor
	POTRERO-TBC & SAN MATEO-MARTIN 230KV [9980] (2)	P6	N-1-1	< 100	< 100	104	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
San Ramon-Moraga 230kV Line	P2-4:A8:6: PITTSBURG-E 230KV - SECTION 1E & 2E	P2	Breaker	47	18	29	32	15	18	7	7	103	32	20	Sensitivity only
San Ramon-Radum 60kV Line	P1-2:A16:4: CONTRA COSTA-LAS POSITAS 230KV [4510]	P1	N-1	60	86	106	48	52	38	69	92	32	48	87	Continue to monitor
	P1-2:A16:63: LIVERMORE-LAS POSITAS 60KV [7410]	P1	N-1	69	83	103	55	51	48	67	86	50	55	83	Continue to monitor
	P1-3:A16:7: LS PSTAS 230/60KV TB 4	P1	N-1	70	84	114	60	53	55	74	96	41	60	84	Continue to monitor
	P2-2:A16:9: LS PSTAS 230KV SECTION 1G	P2	Bus	70	84	114	60	53	55	74	96	41	60	84	Continue to monitor
	P2-2:A8:6: C.COSTAPPD 230KV SECTION 1D	P2	Bus	58	86	103	45	52	36	67	89	32	45	87	Continue to monitor
	P2-3:A8:2: C.COSTAPPD - 1D 230KV & MARSHLD1-C.COSTAPPD #1 LINE	P2	Breaker	58	86	103	45	52	36	67	89	32	45	87	Continue to monitor
	P2-4:A16:5: LS PSTAS 230KV - SECTION 1F & 1G	P2	Breaker	72	86	117	62	55	56	76	99	43	62	87	Continue to monitor
	P2-4:A8:4: C.COSTAPPD 230KV - SECTION 1D & 2D	P2	Breaker	64	93	109	49	55	39	71	95	37	49	92	Continue to monitor
	P5-5C:A16:6: LAS POSITAS 230-60KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	72	85	106	58	52	50	70	90	53	58	86	Continue to monitor
Saratoga-Vasona 230 kV Line	HICKS-METCALF 230KV [4910] & METCALF-MONTA VISTA #3 230KV [5091]	P6	N-1-1	< 100	< 100	102	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Scott-Duane 115 kV Line	SV2-4:6:_NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	123	NA	NA	88	NA	82	NA	NA	133	88	NA	Project: NRS rebuild project
Sobrante 230/115kV Transformer #1	MORAGA 230/115KV TB 2 & SOBRANTE 230/115KV TB 2	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	119	< 100	< 100	< 100	Continue to monitor
	P5-5C:A8:3: PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	40	89	94	27	60	24	85	103	42	27	87	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	75	77	91	77	52	87	92	109	Diverge	77	77	Continue to monitor
Sobrante 230/115kv Transformer #2	E. SHORE 230/115KV TB 1 & SOBRANTE 230/115KV TB 1	P6	N-1-1	< 100	100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	101	Generation redispatch
	P1-3:A8:6:_SOBRANTE 230/115KV TB 1	P1	N-1	63	95	94	57	61	65	82	101	55	57	93	Continue to monitor
	P2-2:A8:58:_SOBRANTE 115KV SECTION 1X	P2	Bus	63	95	94	57	61	65	82	101	55	57	93	Continue to monitor
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	45	93	95	26	63	26	88	108	43	26	92	Continue to monitor
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	79	79	89	76	56	90	94	111	Diverge	76	80	Continue to monitor
Sobrante-El Cerrito STA G #1 115KV Lin	CHRISTIE-SOBRANTE 115KV [1260] & SOBRANTE-G #2 115KV [3730]	P6	N-1-1	108	< 100	< 100	115	< 100	103	< 100	< 100	< 100	< 100	< 100	Project: Christie-Sobrante 115 kV Line Reconductor
	LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS & SOBRANTE-G #2 115KV [3730]	P3	N-1-1	< 100	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Christie-Sobrante 115 kV Line Reconductor
	CHRISTIE-SOBRANTE 115KV [1260] & SOBRANTE-G #2 115KV [3730]	P6	N-1-1	108	< 100	< 100	115	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Christie-Sobrante 115 kV Line Reconductor
	LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS & SOBRANTE-G #2 115KV [3730]	P3	N-1-1	< 100	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Christie-Sobrante 115 kV Line Reconductor
Sobrante-El Cerrito STA G #2 115KV Line	CHRISTIE-SOBRANTE 115KV [1260] & SOBRANTE-G #1 115KV [3720]	P6	N-1-1	108	< 100	< 100	115	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Christie-Sobrante 115 kV Line Reconductor
	LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS & SOBRANTE-G #1 115KV [3720]	P3	N-1-1	< 100	< 100	< 100	103	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Christie-Sobrante 115 kV Line Reconductor
	P2-2:A8:55:_SOBRANTE 115KV SECTION 1D	P2	Bus	113	77	97	123	26	99	74	99	102	123	79	Project: Christie-Sobrante 115 kV Line Reconductor
	P2-3:A8:45:_SOBRANTE - 1D 115KV & SOBRANTE-GRIZZLY-CLAREMONT #1 LINE	P2	Breaker	113	78	98	123	26	100	75	100	102	123	79	Project: Christie-Sobrante 115 kV Line Reconductor
	P2-3:A8:46:_SOBRANTE - 1D 115KV & SOBRANTE-G #1 LINE	P2	Breaker	113	77	97	123	26	99	74	99	102	123	79	Project: Christie-Sobrante 115 kV Line Reconductor
	P2-3:A8:48:_SOBRANTE - 1D 115KV & SOBRANTE-SAN PBLO-STD. OIL LINE	P2	Breaker	113	77	97	123	26	99	74	99	102	123	79	Project: Christie-Sobrante 115 kV Line Reconductor
	P2-4:A8:27:_SOBRANTE 115KV - SECTION 1D & 2D	P2	Breaker	115	79	99	126	27	103	78	103	107	126	81	Project: Christie-Sobrante 115 kV Line Reconductor
Sobrante-Grizzly-Claremont #1 115KV Line (Hillside-Grizzly JCT)	P2-1:A8:57:_SOBRANTE-GRIZZLY-CLAREMONT #2 115KV [3750] (GRIZZLY2-SOBRANTE)	P2	Line Section w/o Fault	36	95	102	42	86	26	53	61	25	42	92	Continue to monitor
	P2-2:A8:56:_SOBRANTE 115KV SECTION 2E	P2	Bus	37	96	103	43	86	27	54	62	26	43	93	Continue to monitor
	P2-4:A8:28:_SOBRANTE 115KV - SECTION 2E & 2D	P2	Breaker	37	96	103	43	86	27	54	62	26	43	93	Continue to monitor
	P2-4:A8:52:_SOBRANTE 115KV - SECTION 2E & 1E	P2	Breaker	24	106	116	30	101	17	37	42	19	30	100	Generation redispatch
	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	124	143	182	123	123	107	127	147	Diverge	123	144	Install redundant battery supply
	SOBRANTE-GRIZZLY-CLAREMONT #2 115KV [3750] & SOBRANTE-MORAGA 115KV [3742]	P6	N-1-1	< 100	< 100	112	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P2-4:A8:29:_MORAGA.C 115KV - SECTION 1C & 2C	P2	Breaker	29	92	101	28	88	24	56	66	9	28	89	Continue to monitor
	P2-4:A8:47:_MORAGA.C SECTION 2C & MORAGA.D SECTION 2D 115KV	P2	Breaker	37	95	93	38	84	30	51	50	26	38	92	Continue to monitor
	P2-4:A8:9:_MORAGA 230KV - SECTION 2D & 1D	P2	Breaker	95	102	98	93	83	79	87	69	Diverge	93	102	Generation redispatch
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	12	88	102	14	76	24	51	63	14	14	85	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Sobrante-Grizzly-Claremont #2 115kV Line (Hillside-Grizzly JCT)	P5-5C:A8:8:_MORAGA 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	150	174	226	149	149	131	156	182	Diverge	149	175	Install redundant battery supply
	SOBRANTE-GRIZZLY-CLAREMONT #1 115KV [3740] & SOBRANTE-MORAGA 115KV [3742]	P6	N-1-1	< 100	102	124	< 100	< 100	< 100	< 100	< 100	< 100	< 100	104	Generation redispatch
	P2-3:A8:46:_SOBRANTE - 1D 115KV & SOBRANTE-G #1 LINE	P2	Breaker	41	103	112	46	90	30	58	68	29	46	100	Generation redispatch
	P2-3:A8:47:_SOBRANTE - 1D 115KV & SOBRANTE-R #1 LINE	P2	Breaker	41	103	112	47	91	30	59	68	29	47	100	Generation redispatch
	P2-3:A8:48:_SOBRANTE - 1D 115KV & SOBRANTE-SAN PBLO-STD. OIL LINE	P2	Breaker	41	103	112	46	90	30	58	68	29	46	100	Generation redispatch
	P2-4:A8:27:_SOBRANTE 115KV - SECTION 1D & 2D	P2	Breaker	55	113	115	53	94	40	69	79	46	53	110	Generation redispatch
	P2-4:A8:51:_SOBRANTE 115KV - SECTION 1D & 1E	P2	Breaker	27	113	125	32	103	19	41	48	18	32	107	Generation redispatch
Sobrante-Moraga 115kV Line	P5-5C:A7:7:_CLAREMONT (OAKLAND K) 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	NA	110	116	NA	98	NA	34	44	NA	NA	104	Install redundant battery supply
	P5-5C:A8:2:_CONTRA COSTA PP 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	NA	83	102	NA	63	NA	44	53	NA	NA	83	Install redundant battery supply
	P5-5C:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	NA	101	116	NA	83	NA	35	54	NA	NA	96	Install redundant battery supply
	SOBRANTE-GRIZZLY-CLAREMONT #1 115KV [3740] & SOBRANTE-GRIZZLY-CLAREMONT #2 115KV [3750]	P6	N-1-1	< 100	< 100	107	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
Swift-Metcalf 115 kV Line	NEWARK F-RINGWOODSWST #1 115KV [0] & NEWARK-MILPITAS #1 115KV [3070] MOAS OPENED ON NEWARK F	P6	N-1-1	106	< 100	142	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P2-2:A16:41:_NEWARK F 115KV SECTION 1F	P2	Bus	107	83	142	93	44	89	71	98	85	93	84	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P2-3:A16:13:_NEWARK F - 1F 115KV & NEWARK F-ZANKER-KRS LINE	P2	Breaker	107	83	142	93	44	89	71	98	85	93	84	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P2-3:A16:14:_NEWARK F - 1F 115KV & NEWARK-MILPITAS #1 LINE	P2	Breaker	107	83	142	93	44	89	71	98	85	93	84	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Breaker	108	84	144	93	44	90	71	99	86	93	85	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P2-4:A16:27:_NEWARK E SECTION 1E & NEWARK F SECTION 1F 115KV	P2	Breaker	107	83	142	93	44	89	71	98	85	93	84	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P5-5C:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	108	84	144	93	44	89	71	98	85	93	85	Project: Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade/Continue to monitor
	P5-5C:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	92	65	Diverge	78	42	94	65	83	Diverge	78	66	Install redundant battery supply
Tassajara-Newark 230kV Line	P2-2:A8:8:_PITTSBURG-D 230KV SECTION 2D	P2	Bus	28	71	100	17	46	8	33	74	4	17	70	Continue to monitor
	P2-3:A8:5:_PITTSBURG-D - 2D 230KV & PITTSBURG-D-TBC_PT81 #1 LINE	P2	Breaker	28	71	100	17	46	8	33	74	4	17	70	Continue to monitor
	TESLA-NEWARK #2 230KV [5354] & TESLA-NEWARK #1 230KV [5720]	P6	N-1-1	< 100	< 100	105	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor

Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)								Loading % (Sensitivity Scenarios)			Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	
Tesla - Newark 230 kV Line No. 2	P5-5C:A8:3:_ PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-redundant battery supply/Relay	77	74	101	65	44	68	61	79	88	65	74	Continue to monitor
	TESLA-RAVENSWOOD 230KV [5730] & TESLA-NEWARK #1 230KV [5720]	P6	N-1-1	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Diverge	< 100	< 100	Continue to monitor
Trimble-San Jose 'B' 115 kV Line	LOS ESTEROS-MONTAGUE 115KV [2380] & LOS ESTEROS-TRIMBLE 115KV [2550]	P6	N-1-1	< 100	< 100	113	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Continue to monitor
	P7-1:A18:8_Los Esteros - Trimble & Los Esteros - Montague 115 kV	P7	DCTL	NA	96	113	NA	88	NA	92	95	NA	NA	96	Continue to monitor
	SVP2-4:6:_NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	124	NA	NA	83	NA	57	NA	NA	101	83	NA	Project: NRS rebuild project
Whisman-Monta Vista 115 kV Line	P1-2:A17:24:_ MTN VIEW-MONTA VISTA 115KV [2920]	P1	N-1	87	66	82	68	61	95	75	70	103	68	67	Sensitivity only
	P2-2:A17:20:_ MT VIEW 115KV SECTION 1C	P2	Bus	87	66	82	68	61	95	75	70	103	68	67	Sensitivity only
	P2-3:A17:5:_ MNTA VSA 115KV - MIDDLE BREAKER BAY 2	P2	Breaker	92	69	86	68	66	96	78	72	109	69	70	Sensitivity only
	P5-5C:A16:7:_ NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundent battery supply/Relay	98	80	Diverge	75	58	91	70	81	Diverge	75	81	Continue to monitor
	RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS & MTN VIEW-MONTA VISTA 115KV [2920]	P3	N-1-1	104	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	Load Flow under review
Wind Master - Delta 230 kV Line	P2-2:A8:26:_C.COSTAPPE 230KV SECTION 1E	P2	Bus	31	58	102	32	5	15	54	70	29	33	72	Continue to monitor

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
ALMADEN 60 kV	Base Case	P0	Normal	Low	0.93	> 0.95	0.92	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	0.93	> 0.95	> 0.95	> 0.95	0.92	Project: San Jose area HVDC
CRYOGEN 115 kV	Base Case	P0	Normal	Low	0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	0.93	> 0.95	> 0.95	> 0.95	> 0.95	Project: San Jose area HVDC
JARVIS 115 kV	Base Case	P0	Normal	Low	0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	0.93	> 0.95	> 0.95	> 0.95	> 0.95	Project: San Jose area HVDC
JV BART 115 kV	Base Case	P0	Normal	Low	0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	0.93	> 0.95	> 0.95	> 0.95	> 0.95	Project: San Jose area HVDC
AMAZONHYWD 230 kV	P1-2:A10:1: EASTSHORE-SAN MATEO 230KV [4650]	P1	N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
CRYOGEN 115 kV	P1-2:A16:41: NEWARK-JARVIS #1 115KV [3020]	P1	N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	P1-2:A16:41: NEWARK-JARVIS #1 115KV [3020]	P1	N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	P1-2:A16:41: NEWARK-JARVIS #1 115KV [3020]	P1	N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	P1-2:A16:42: NEWARK-JARVIS #2 115KV [3030]	P1	N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	P1-2:A16:42: NEWARK-JARVIS #2 115KV [3030]	P1	N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	P1-2:A16:42: NEWARK-JARVIS #2 115KV [3030]	P1	N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	P1-2:A16:52: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
DIXON LD 115 kV	P1-2:A16:52: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.86	0.88	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	> 0.9	0.88	0.88	0.88	Long-term load forecast under review
MABURY 115 kV	P1-2:A16:52: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	P1-2:A16:52: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
DIXON LD 115 kV	P1-2:A18:27: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.86	0.88	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	> 0.9	0.88	0.88	0.88	Long-term load forecast under review
MABURY 115 kV	P1-2:A18:27: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	P1-2:A18:27: NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	P1-2:A18:52: PIERCY-METCALF 115KV [4318]	P1	N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review
MABURY 115 kV	P1-2:A18:52: PIERCY-METCALF 115KV [4318]	P1	N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review
MCKEE 115 kV	P1-2:A18:52: PIERCY-METCALF 115KV [4318]	P1	N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
PIERCY 115 kV	P1-2:A18:52: PIERCY-METCALF 115KV [4318]	P1	N-1	Low	0.89	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
ALMADEN 60 kV	P1-2:A18:99: SANJOSEHVDC VSC	P1	N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
CRYOGEN 115 kV	P2-1:A16:14: NEWARK-JARVIS #2 115KV [3030] (NUMI JCT-JARVIS)	P2	Bus/Breaker	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Long-term load forecast under review
JARVIS 115 kV	P2-1:A16:14: NEWARK-JARVIS #2 115KV [3030] (NUMI JCT-JARVIS)	P2	Bus/Breaker	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	P2-1:A16:14: NEWARK-JARVIS #2 115KV [3030] (NUMI JCT-JARVIS)	P2	Bus/Breaker	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	P2-1:A16:7: NEWARK-JARVIS #2 115KV [3030] (NEWARK D-NUMI JCT)	P2	Bus/Breaker	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	P2-1:A16:7: NEWARK-JARVIS #2 115KV [3030] (NEWARK D-NUMI JCT)	P2	Bus/Breaker	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	P2-1:A16:7: NEWARK-JARVIS #2 115KV [3030] (NEWARK D-NUMI JCT)	P2	Bus/Breaker	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
AMAZONHYWD 230 kV	P2-2:A10:1: SANMATEO 230KV SECTION 2D	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
MILPITAS 115 kV	P2-2:A16:41: NEWARK F 115KV SECTION 1F	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.82	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.82	Long-term load forecast under review
STACK 115 kV	P2-2:A16:41: NEWARK F 115KV SECTION 1F	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.82	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.82	Long-term load forecast under review
BARTLP 115 kV	P2-2:A16:42: NEWARK F 115KV SECTION 2F	P2	Bus/Breaker	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
DIXON LD 115 kV	P2-2:A16:42: NEWARK F 115KV SECTION 2F	P2	Bus/Breaker	Low	0.86	0.88	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	> 0.9	0.88	0.88	0.88	Long-term load forecast under review
MABURY 115 kV	P2-2:A16:42: NEWARK F 115KV SECTION 2F	P2	Bus/Breaker	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
MCKEE 115 kV	P2-2:A16:42:_NEWARK F 115KV SECTION 2F	P2	Bus/Breaker	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	P2-2:A18:33:_EVRGRN 1 115KV SECTION 1D	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.84	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.84	Long-term load forecast under review
MABURY 60 kV	P2-2:A18:33:_EVRGRN 1 115KV SECTION 1D	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
MABURY 115 kV	P2-2:A18:43:_MTCALF E 115KV SECTION 2E	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review
MCKEE 115 kV	P2-2:A18:43:_MTCALF E 115KV SECTION 2E	P2	Bus/Breaker	Low	0.90	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
PIERCY 115 kV	P2-2:A18:43:_MTCALF E 115KV SECTION 2E	P2	Bus/Breaker	Low	0.89	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
ALMADEN 60 kV	P2-2:A9:5:_POTRERO 115KV SECTION 2E	P2	Bus/Breaker	Low	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	Sensitivity only
AMAZONHYWD 230 kV	P2-3:A16:3:_E. SHORE 230KV - MIDDLE BREAKER BAY 4	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
ALMADEN 60 kV	P2-3:A18:76:_SANJOSEB 115KV - MIDDLE BREAKER BAY 5	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
AMAZONHYWD 230 kV	P2-4:A10:1:_SANMATEO 230KV - SECTION 2D & 1D	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.84	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
AMAZONHYWD 230 kV	P2-4:A10:2:_SANMATEO 230KV - SECTION 2D & 2E	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
EDES 115 kV	P2-4:A16:12:_EASTSHRE 115KV - SECTION ME & MD	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
GRANT 115 kV	P2-4:A16:12:_EASTSHRE 115KV - SECTION ME & MD	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
EDES 115 kV	P2-4:A16:15:_EASTSHRE 115KV - SECTION 1D & 1E	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
GRANT 115 kV	P2-4:A16:15:_EASTSHRE 115KV - SECTION 1D & 1E	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
MT EDEN 115 kV	P2-4:A16:15:_EASTSHRE 115KV - SECTION 1D & 1E	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
STATIN J 115 kV	P2-4:A16:15:_EASTSHRE 115KV - SECTION 1D & 1E	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
BARTLP 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.87	0.90	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	0.90	0.90	0.88	Long-term load forecast under review
BARTRC 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.90	> 0.9	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.81	Long-term load forecast under review
DIXON LD 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.85	0.87	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	0.87	0.88	0.86	Long-term load forecast under review
MABURY 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.87	0.90	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	0.90	0.90	0.88	Long-term load forecast under review
MCKEE 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MILPITAS 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.90	> 0.9	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.81	Long-term load forecast under review
STACK 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	0.90	> 0.9	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.81	Long-term load forecast under review
SWIFT 115 kV	P2-4:A16:22:_NEWARK F 115KV - SECTION 1F & 2F	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
STACK 115 kV	P2-4:A16:27:_NEWARK E SECTION 1E & NEWARK F SECTION 1F 115KV	P2	Bus/Breaker	Low	> 0.9	> 0.9	0.82	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.82	Long-term load forecast under review
BARTLP 115 kV	P2-4:A18:31:_MTCALF D SECTION 2D & MTCALF E SECTION 2E 115KV	P2	Bus/Breaker	Low	0.90	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review
MCKEE 115 kV	P2-4:A18:31:_MTCALF D SECTION 2D & MTCALF E SECTION 2E 115KV	P2	Bus/Breaker	Low	0.90	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
PIERCY 115 kV	P2-4:A18:31:_MTCALF D SECTION 2D & MTCALF E SECTION 2E 115KV	P2	Bus/Breaker	Low	0.89	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
SVP 115 kV and 60 kV system	SVP2-4:6:_NRS 400 115 kV bus tie breaker to NRS 300 115 kV bus	P2	Bus/Breaker	Low	0.78	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.71	> 0.9	> 0.9	> 0.9	> 0.9	Project: NRS rebuild project
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.89	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Systems adjustments or voltage support if needed
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Systems adjustments or voltage support if needed

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.84	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.82	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & LS ESTR51-25 25.00KV GEN UNIT VE	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to monitor
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.85	0.86	0.83	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	0.86	0.86	0.83	Systems adjustments or voltage support if needed
ALMADEN 60 kV	EL PATIO-SAN JOSE A 115KV [1520] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	EVGRN 1-MTCALF E #2 115KV [0] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	EVGRN 1-MTCALF E #2 115KV [0] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
AMAZONHYWD 230 kV	MARTIN C SVD=V & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	Continue to monitor
ALMADEN 60 kV	METCALF SVD=V & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	METCALF-EVERGREEN #1 115KV [2520] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	METCALF-EVERGREEN #1 115KV [2520] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	METCALF-EVERGREEN #1 115KV [2520] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	NEWARK E-F BUS TIE 230KV [4640] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	NEWARK-DIXON LANDING 115KV [2990] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
DIXON LD 115 kV	NEWARK-DIXON LANDING 115KV [2990] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.85	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MABURY 115 kV	NEWARK-DIXON LANDING 115KV [2990] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MCKEE 115 kV	NEWARK-DIXON LANDING 115KV [2990] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
BARTLP 115 kV	NEWARK-DIXON LANDING 115kV [2990] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MCKEE 115 kV	NEWARK-DIXON LANDING 115kV [2990] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MABURY 115 kV	NEWARK-DIXON LANDING 115kV [2990] & LECEFT1 13.80kV & LECEFGT1 13.80kV & LECEFGT2 13.80kV & LECEFGT3 13.80kV & LECEFGT4 13.80kV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	0.89	Project: San Jose area HVDC
MCKEE 115 kV	NEWARK-DIXON LANDING 115kV [2990] & LECEFT1 13.80kV & LECEFGT1 13.80kV & LECEFGT2 13.80kV & LECEFGT3 13.80kV & LECEFGT4 13.80kV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	NEWARK-DIXON LANDING 115kV [2990] & MEC CTG1 18.00kV & MEC CTG2 18.00kV & MEC STG1 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
DIXON LD 115 kV	NEWARK-DIXON LANDING 115kV [2990] & MEC CTG1 18.00kV & MEC CTG2 18.00kV & MEC STG1 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.86	0.88	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	0.88	0.87	Long-term load forecast under review
MABURY 115 kV	NEWARK-DIXON LANDING 115kV [2990] & MEC CTG1 18.00kV & MEC CTG2 18.00kV & MEC STG1 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	NEWARK-DIXON LANDING 115kV [2990] & MEC CTG1 18.00kV & MEC CTG2 18.00kV & MEC STG1 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	NEWARK-DIXON LANDING 115kV [2990] & RUSCTYECST1 18.00kV & RUSCTYECCT2 15.00kV & RUSCTYECCT1 15.00kV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
DIXON LD 115 kV	NEWARK-DIXON LANDING 115kV [2990] & RUSCTYECST1 18.00kV & RUSCTYECCT2 15.00kV & RUSCTYECCT1 15.00kV GEN UNITS	P3	G-1/N-1	Low	0.86	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
MABURY 115 kV	NEWARK-DIXON LANDING 115kV [2990] & RUSCTYECST1 18.00kV & RUSCTYECCT2 15.00kV & RUSCTYECCT1 15.00kV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	NEWARK-DIXON LANDING 115kV [2990] & RUSCTYECST1 18.00kV & RUSCTYECCT2 15.00kV & RUSCTYECCT1 15.00kV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115kV [3020] & DEC STG1 18.00kV & DEC CTG1 18.00kV & DEC CTG2 18.00kV & DEC CTG3 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115kV [3020] & DEC STG1 18.00kV & DEC CTG1 18.00kV & DEC CTG2 18.00kV & DEC CTG3 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #1 115kV [3020] & DEC STG1 18.00kV & DEC CTG1 18.00kV & DEC CTG2 18.00kV & DEC CTG3 18.00kV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115kV [3020] & DVRA GT1 13.80kV & DVRB GT2 13.80kV & DVRA ST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115kV [3020] & DVRA GT1 13.80kV & DVRB GT2 13.80kV & DVRA ST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
JV BART 115 kV	NEWARK-JARVIS #1 115KV [3020] & DVRaGT1 13.80KV & DVRbGT2 13.80KV & DVRaST3 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115KV [3020] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115KV [3020] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #1 115KV [3020] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115KV [3020] & LECEFTS1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115KV [3020] & LECEFTS1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #1 115KV [3020] & LECEFTS1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115KV [3020] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115KV [3020] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #1 115KV [3020] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115KV [3020] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115KV [3020] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #1 115KV [3020] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #1 115KV [3020] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #1 115KV [3020] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #1 115KV [3020] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #2 115KV [3030] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
JV BART 115 kV	NEWARK-JARVIS #2 115KV [3030] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #2 115KV [3030] & DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #2 115KV [3030] & DVRaGT1 13.80kV & DVRbGT2 13.80kV & DVRaST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #2 115KV [3030] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #2 115KV [3030] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & LECEFT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #2 115KV [3030] & LECEFT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #2 115KV [3030] & LECEFT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JARVIS 115 kV	NEWARK-JARVIS #2 115KV [3030] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
CRYOGEN 115 kV	NEWARK-JARVIS #2 115KV [3030] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
JV BART 115 kV	NEWARK-JARVIS #2 115KV [3030] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
AMAZONHYWD 230 kV	NEWARK-RAVENSWOOD 230KV [5936] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Continue to monitor
BARTLP 115 kV	PIERCY-METCALF 115KV [4318] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Long-term load forecast under review
MABURY 115 kV	PIERCY-METCALF 115KV [4318] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	PIERCY-METCALF 115KV [4318] & DVRA GT1 13.80KV & DVRB GT2 13.80KV & DVRA ST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MABURY 115 kV	PIERCY-METCALF 115KV [4318] & DVRA GT1 13.80KV & DVRB GT2 13.80KV & DVRA ST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & DVRA GT1 13.80KV & DVRB GT2 13.80KV & DVRA ST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & DVRA GT1 13.80KV & DVRB GT2 13.80KV & DVRA ST3 13.80KV Gen Units	P3	G-1/N-1	Low	0.87	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
BARTLP 115 kV	PIERCY-METCALF 115KV [4318] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	Long-term load forecast under review
MABURY 115 kV	PIERCY-METCALF 115KV [4318] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & Kifer BESS Gen Unit	P3	G-1/N-1	Low	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	PIERCY-METCALF 115KV [4318] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MABURY 115 kV	PIERCY-METCALF 115KV [4318] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & LECEFGT1 13.80KV & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	0.87	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & LMECCT2 18.00KV & LMECCT1 18.00KV & LMECST1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MABURY 115 kV	PIERCY-METCALF 115KV [4318] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Long-term load forecast under review
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
BARTLP 115 kV	PIERCY-METCALF 115KV [4318] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MABURY 115 kV	PIERCY-METCALF 115KV [4318] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	PIERCY-METCALF 115KV [4318] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.89	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
PIERCY 115 kV	PIERCY-METCALF 115KV [4318] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	0.88	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	Long-term load forecast under review
AMAZONHYWD 230 kV	PITTSBURG.E-EASTSHORE 230KV [5462] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Continue to monitor
ALMADEN 60 kV	RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS & DVRaGT1 13.80kV & DVRbGt2 13.80kV & DVRaST3 13.80kV Gen Units	P3	G-1/N-1	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
ALMADEN 60 kV	SAN JOSE B-STONE-EVERGREEN 115KV [1550] & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review
AMAZONHYWD 230 kV	SAN MATEO-MARTIN 230KV [9980] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to monitor
AMAZONHYWD 230 kV	SAN MATEO-MARTIN 230KV [9980] (2) & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Continue to monitor
ALMADEN 60 kV	SANJOSEBHVDC VSC & DEC STG1 18.00KV & DEC CTG1 18.00KV & DEC CTG2 18.00KV & DEC CTG3 18.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
ALMADEN 60 kV	SANJOSEBHVDC VSC & DVRaGT1 13.80KV & DVRbGt2 13.80KV & DVRaST3 13.80KV Gen Units	P3	G-1/N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
ALMADEN 60 kV	SANJOSEBHVDC VSC & LECEFGT1 13.80KV & LECEFGT2 13.80KV & LECEFGT3 13.80KV & LECEFGT4 13.80KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
ALMADEN 60 kV	SANJOSEBHVDC VSC & MARTIN C1-25 25.00KV GEN UNIT VE	P3	G-1/N-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
ALMADEN 60 kV	SANJOSEBHVDC VSC & MEC CTG1 18.00KV & MEC CTG2 18.00KV & MEC STG1 18.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
ALMADEN 60 kV	SANJOSEBHVDC VSC & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Long-term load forecast under review
SWIFT 115 kV	SWIFT-METCALF 115KV [3900] & RUSCTYECST1 18.00KV & RUSCTYECCT2 15.00KV & RUSCTYECCT1 15.00KV GEN UNITS	P3	G-1/N-1	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Long-term load forecast under review
EDES 115 kV	P5-5C:A16:11: EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Install redundant battery supply

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
GRANT 115 kV	P5-SC:A16:11:_EASTSHORE 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Install redundant battery supply
BARTLP 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.87	0.90	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	0.90	0.90	0.88	Install redundant battery supply
BARTRC 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.90	> 0.9	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.81	Install redundant battery supply
DIXON LD 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.85	0.87	0.86	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	> 0.9	0.87	0.88	0.87	Install redundant battery supply
MABURY 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.87	0.90	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	0.90	0.90	0.88	Install redundant battery supply
MCKEE 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	0.89	Install redundant battery supply
MILPITAS 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.90	> 0.9	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.81	Install redundant battery supply
STACK 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.90	> 0.9	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.81	Install redundant battery supply
SWIFT 115 kV	P5-SC:A16:17:_NEWARK E&F 115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Install redundant battery supply
EDES 115 kV	P5-SC:A16:5:_EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Install redundant battery supply
GRANT 115 kV	P5-SC:A16:5:_EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	Install redundant battery supply
MT EDEN 115 kV	P5-SC:A16:5:_EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	Install redundant battery supply
STATIN J 115 kV	P5-SC:A16:5:_EASTSHORE 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Install redundant battery supply
ALMADEN 60 kV	P5-SC:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Install redundant battery supply
CRYOGEN 115 kV	P5-SC:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Install redundant battery supply
JARVIS 115 kV	P5-SC:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Install redundant battery supply
JV BART 115 kV	P5-SC:A16:7:_NEWARK 230KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Install redundant battery supply
SANRAMON 230 kV	P5-SC:A8:3:_PITTSBURG PP 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	Install redundant battery supply
BOLLMAN 115 kV	P5-SC:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	Install redundant battery supply
EL CRRTO 115 kV	P5-SC:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.78	0.85	0.90	0.58	> 0.9	0.72	0.86	> 0.9	0.79	0.58	0.85	0.86	0.90	Install redundant battery supply
FRANKLIN 60 kV	P5-SC:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.80	0.87	> 0.9	0.58	> 0.9	0.75	0.88	> 0.9	0.81	0.58	0.87	0.88	> 0.9	Install redundant battery supply
MARTNZ D 115 kV	P5-SC:A8:6:_SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	> 0.9	> 0.9	> 0.9	0.84	> 0.9	0.90	> 0.9	> 0.9	0.90	0.84	> 0.9	> 0.9	> 0.9	Install redundant battery supply

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
URICH 60 kV	P5-5C:A8:6: SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.80	0.88	> 0.9	0.59	> 0.9	0.74	0.88	> 0.9	0.81	0.59	0.87	0.89	> 0.9	Install redundant battery supply
VALLY VW 115 kV	P5-5C:A8:6: SOBRANTE 230-115KV BATT(FAILURE OF NON-REDUNDANT BATT)	P5	Non-Redundant battery supply/Relay	Low	0.79	0.86	> 0.9	0.60	> 0.9	0.73	0.86	> 0.9	0.80	0.60	0.86	0.87	> 0.9	Install redundant battery supply
BLLE HVN 60 kV	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	Low	0.85	0.82	0.63	> 0.9	> 0.9	> 0.9	> 0.9	0.83	0.84	> 0.9	0.81	0.82	0.64	Long-term load forecast under review
ORACLE60 60 kV	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	Low	> 0.9	> 0.9	0.84	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.84	Long-term load forecast under review
REDWOOD 60 kV	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	Low	0.89	0.86	0.72	> 0.9	> 0.9	> 0.9	> 0.9	0.88	0.87	> 0.9	0.86	0.87	0.72	Long-term load forecast under review
SAN CRLS 60 kV	CLY LND 115/60KV TB 1 & CLY LND2 115/60KV TB 2	P6	N-1-1	Low	> 0.9	0.88	0.76	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	0.88	0.89	0.76	Long-term load forecast under review
GLENWOOD 60 kV	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	Low	0.83	0.79	0.58	> 0.9	> 0.9	> 0.9	0.89	0.81	0.82	> 0.9	0.79	0.80	0.58	Long-term load forecast under review
MENLO 60 kV	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	Low	0.83	0.79	0.57	> 0.9	> 0.9	> 0.9	0.89	0.80	0.82	> 0.9	0.79	0.80	0.57	Long-term load forecast under review
MENLO G 60 kV	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	Low	0.83	0.79	0.57	> 0.9	> 0.9	> 0.9	0.89	0.80	0.82	> 0.9	0.79	0.80	0.57	Long-term load forecast under review
NRTHGRUM 60 kV	CLY LND2 115/60KV TB 2 & CLY LND 115/60KV TB 1	P6	N-1-1	Low	0.84	0.80	0.60	> 0.9	> 0.9	> 0.9	0.89	0.81	0.82	> 0.9	0.79	0.80	0.61	Long-term load forecast under review
AMAZONHYWD 230 kV	EASTSHORE-SAN MATEO 230KV [4650] & PITTSBURG.E-EASTSHORE 230KV [5462]	P6	N-1-1	Low	0.82	0.82	0.79	0.86	> 0.9	> 0.9	> 0.9	> 0.9	0.75	0.86	0.82	0.83	0.79	Systems adjustments or voltage support if needed
POTRERO 230 kV	EGBERTSWSTA-EMBRCDRD 230KV [0] & SAN MATEO-MARTIN 230KV [9980]	P6	N-1-1	Low	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	0.88	> 0.9	Systems adjustments or voltage support if needed
AWSGILROY2 115 kV	METCALF-MORGAN HILL 115KV [2570] & LLAGAS-GILROY F-GILROYENG-GILROYPK 115KV [0]	P6	N-1-1	Low	0.79	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	0.81	0.90	> 0.9	> 0.9	> 0.9	Project: Morgan Hill Area Reinforcement
LLAGAS 115 kV	METCALF-MORGAN HILL 115KV [2570] & LLAGAS-GILROY F-GILROYENG-GILROYPK 115KV [0]	P6	N-1-1	Low	0.80	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	0.81	0.90	> 0.9	> 0.9	> 0.9	Project: Morgan Hill Area Reinforcement
MRGN HIL 115 kV	METCALF-MORGAN HILL 115KV [2570] & LLAGAS-GILROY F-GILROYENG-GILROYPK 115KV [0]	P6	N-1-1	Low	0.75	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	0.77	0.87	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
DIXON LD 115 kV	NEWARK-DIXON LANDING 115KV [2990] & METCALF SVD=V	P6	N-1-1	Low	0.85	0.87	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.83	> 0.9	0.87	0.87	0.87	Long-term load forecast under review
MCKEE 115 kV	POTRERO-TBC & PIERCY-METCALF 115KV [4318]	P6	N-1-1	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
PIERCY 115 kV	POTRERO-TBC & PIERCY-METCALF 115KV [4318]	P6	N-1-1	Low	> 0.9	> 0.9	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.85	> 0.9	> 0.9	> 0.9	0.87	Long-term load forecast under review
ALMADEN 60 kV	SAN JOSE B-STONE-EVERGREEN 115KV [1550] & EVGRN 1-MTCALF E #2 115KV [0]	P6	N-1-1	Low	0.88	0.89	0.81	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	0.89	0.81	Long-term load forecast under review
EMBRCDRD 230 kV	SAN MATEO-MARTIN 230KV [9980] & EGBERTSWSTA-EMBRCDRD 230KV [0]	P6	N-1-1	Low	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	0.88	> 0.9	Systems adjustments or voltage support if needed
400Paul 230 kV	SAN MATEO-MARTIN 230KV [9980] (2) & EGBERTSWSTA-JEFFERSN 230KV [0]	P6	N-1-1	Low	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	Systems adjustments or voltage support if needed
SWIFT 115 kV	SWIFT-METCALF 115KV [3900] & NEWARK F-RINGWOODSWST #1 115KV [0]	P6	N-1-1	Low	0.88	0.89	0.82	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.88	> 0.9	0.89	0.89	0.82	Long-term load forecast under review
AMAZONHYWD 230 kV	P7-1:A10:1_Eastshore-San Mateo 230 kV and Pittsburg-San Mateo 230 kV lines	P7	DCTL	Low	> 0.9	> 0.9	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.84	> 0.9	> 0.9	> 0.9	0.88	Continue to monitor
BARTLP 115 kV	P7-1:A16:1: NEWARK-DIXON LANDING & NEWARK-MILPITAS #1 LINES	P7	DCTL	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
MCKEE 115 kV	P7-1:A16:1: NEWARK-DIXON LANDING & NEWARK-MILPITAS #1 LINES	P7	DCTL	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
EDES 115 kV	P7-1:A16:2: GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
GRANT 115 kV	P7-1:A16:2: GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	Low	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review

Substation	Contingency (All and Worst P6)	Category	Category Description	High/Low Voltage	Voltage PU (Baseline Scenarios)								Voltage PU (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
					2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
STATIN J 115 kV	P7-1:A16:2: GRANT-EASTSHORE #1 & GRANT-EASTSHORE #2 LINES	P7	DCTL	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review
ALMADEN 60 kV	P7-1:A18:17_Metcalf - Evergreen #1 and #2 115 kV Lines	P7	DCTL	Low	0.87	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.86	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
BARTLP 115 kV	P7-1:A18:2_Newark - Dixon Landing & Newark - Milpitas #1 115 kV Lines	P7	DCTL	Low	0.88	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
DIXON LD 115 kV	P7-1:A18:2_Newark - Dixon Landing & Newark - Milpitas #1 115 kV Lines	P7	DCTL	Low	0.86	0.88	0.88	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.87	> 0.9	0.88	0.88	0.88	Long-term load forecast under review
MCKEE 115 kV	P7-1:A18:2_Newark - Dixon Landing & Newark - Milpitas #1 115 kV Lines	P7	DCTL	Low	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	Project: San Jose area HVDC
MABURY 115 kV	P7-1:A18:6_Swift - Metcalf & Piercy - Metcalf 115 kV Lines	P7	DCTL	Low	0.89	> 0.9	0.89	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.89	> 0.9	> 0.9	> 0.9	0.89	Long-term load forecast under review
SWIFT 115 kV	P7-1:A18:6_Swift - Metcalf & Piercy - Metcalf 115 kV Lines	P7	DCTL	Low	> 0.9	> 0.9	0.90	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	> 0.9	0.90	Long-term load forecast under review

Substation	Contingency	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)								Post Cont. Voltage Deviation % (Sensitivity Scenarios)					Project & Potential Mitigation Solutions
				2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Heavy Renewable & Min Gas Gen	2028 SP High CEC Forecast	2028 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	2035 SP Reduced Series Compensation in Table Mountain - Tesla 500 kV corridor	
BARTLP 115 kV	P1-2:A16:52:_NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	7	< 8	< 8	< 8	8	System adjustments or voltage support if needed
DIXON LD 115 kV	P1-2:A16:52:_NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	11	10	10	< 8	< 8	< 8	< 8	< 8	9	< 8	10	10	10	System adjustments or voltage support if needed
MABURY 115 kV	P1-2:A16:52:_NEWARK-DIXON LANDING 115KV [2990]	P1	N-1	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	8	System adjustments or voltage support if needed
MCKEE 115 kV	P1-2:A18:52:_PIERCY-METCALF 115KV [4318]	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	9	System adjustments or voltage support if needed
PIERCY 115 kV	P1-2:A18:52:_PIERCY-METCALF 115KV [4318]	P1	N-1	11	< 8	13	< 8	< 8	< 8	< 8	< 8	10	< 8	< 8	< 8	13	System adjustments or voltage support if needed
AMAZONHYWD 230 kV	P1-2:A10:1:_EASTSHORE-SAN MATEO 230KV [4650]	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	9	< 8	< 8	< 8	9	System adjustments or voltage support if needed
E. SHORE 230 kV	P1-2:A10:1:_EASTSHORE-SAN MATEO 230KV [4650]	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	9	< 8	< 8	< 8	9	System adjustments or voltage support if needed
RUSCTYEC 230 kV	P1-2:A10:1:_EASTSHORE-SAN MATEO 230KV [4650]	P1	N-1	< 8	< 8	9	< 8	< 8	< 8	< 8	< 8	9	< 8	< 8	< 8	9	System adjustments or voltage support if needed

Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2025 Spring Off-Peak	2028 Summer Peak	2035 Summer Peak	2028 SP High CEC Forecast	2025 OP Sensitivity	
CAL MEC 3Ø fault with normal clearing time (3 units)	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
DEC Pittsburg 3Ø fault with normal clearing time (4 units)	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Sobrante 230/115 kV #2 transformer 3Ø fault with normal clearing time	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Pittsburg (Sec 1E) 230 kV bus SLG fault with normal clearing time	P2	Bus/Breaker	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Sobrante 230/115 kV #2 transformer 3Ø fault with normal clearing time and DEC Pittsburg (4 units) offline in the base case	P3	G-1/N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Ravenswood 230 kV SVC 3Ø fault with normal clearing time	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Internal fault at Bus-tie Breaker 200 at Newark (Sec 1D) 230 kV	P2	Bus/Breaker	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
DEC STG1 24 kV unit 1 3Ø fault with normal clearing time and RUSCTYECCT (3 units) offline in the base case	P3	G-1/N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Sobrante 500/230 kV #13 transformer 3Ø fault with normal clearing time	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Newark 230 kV SVC 3Ø fault with normal clearing time	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Internal fault at non-Bus-tie Breaker 262 at Metcalf 230 kV Bus D (Metcalf-Los Esteros)	P2	Bus/Breaker	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Sobrante 230 kV bus SLG fault expanded to elements lost due to stuck breaker and clear fault from remote breakers with delayed clearing time	P4	Stuck Breaker	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Los Esteros 115 kV 3Ø fault and CB 582 protecting generation at LECEF with delayed clearing time	P5	Non-Redundent battery supply/Relay	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Install redundant relay
Metcalf 230 kV 3Ø fault and CB 232 protecting Line Metcalf - Moss Landing 230 kV with delayed clearing time	P5	Non-Redundent battery supply/Relay	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Potential WECC/NERC criteria violation	Install redundant relay
Tesla - Newark 230 kV line 3Ø fault with normal clearing time and Pittsburg- Tassajara 230 kV line offline in the base case	P6	N-1-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
Los Esteros 230 kV SVD 3Ø fault with normal clearing and 230 kV line Newark Dist - Los Esteros offline in the base case	P6	N-1-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required
NRS - SRS 115 kV line 3Ø fault with normal clearing time	P1	N-1	No Issue	No Issue	No Issue	No Issue	No Issue	No mitigation required

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)													Potential Mitigation Solutions
			2025 Summer Peak	2028 Summer Peak	2035 Summer Peak	2025 Winter Peak	2028 Winter Peak	2035 Winter Peak	2025 Spring Off-Peak	2028 Spring Off-Peak	2028 Summer-Off Peak	2035 Spring Off-Peak	2028 SP High CEC Forecast	2025 SP Heavy Renewable & Min Gas Gen	2025 OP Sensitivity	

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

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

No single source substation with more than 100 MW