

Study Area: **SCE Eastern area**



Thermal Overload

ID	Overloaded Facility	Worst Contingencies	Category	Category Description	Loading (%)										Potential Mitigation Solutions
					2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen	2022 Summer Off-Peak with Maximum PV Output				
Eastern-T-1	Line 24086 LUGO 500 kV to 26105 VICTORVILLE 500 kV	Line PALO VERDE 500 to COLORADO RIVER 500 Circuit 1 AND Line N. GILA 500 to IMPERIAL VALLEY 500 Circuit 1	P6	N-1-1	125.18	<100	<100	<100	<100	<100	<100				Congestion Management and generation re-dispatch in the LA Basin area after the first contingency. The overload will be relieved after the Lugo-Victorville upgrade is completed and the Delaney-Colorado River 500 kV is in service.
Eastern-T-2	Line 25406 J HINDS 230 kV to 24806 MIRAGE 230 kV	Line PALO VERDE 500 to COLORADO RIVER 500 Circuit 1 AND Line N. GILA 500 to IMPERIAL VALLEY 500 Circuit 1	P6	N-1-1	145.68	<100	<100	<100	<100	<100	<100				The Blythe SPS is triggered to turn off all 3 Blythe units, further overloading Lugo-Victorville 500 kV and reaching diverged condition. Congestion Management and generation re-dispatch in the LA Basin area are needed after the first contingency. The overload will be relieved after the Lugo-Victorville upgrade is completed and the Delaney-Colorado River 500 kV is in service.
Eastern-T-3	Transformer DEVERS 500/230 kV # 1	LINE ALBERHILL 500 to VALLEYSC 500 Circuit 1 AND Transformer DEVERS 500/230 #2	P6	N-1, T-1	<100	<100	<100	<100	<100	<100	125.47				Congestion Management, Generation Re-dispatch after 1st contingency



ID	Substation	Worst Contingencies	Category	Category Description	Post Cont. Voltage Deviation %										Potential Mitigation Solutions
					2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen	2022 Summer Off-Peak with Maximum PV Output				
	None	None													



ID	Substation	Worst Contingencies	Category	Category Description	Voltage (PU)										Potential Mitigation Solutions
					2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen	2022 Summer Off-Peak with Maximum PV Output				
	None	None													

Study Area: **SCE Eastern area**

Transient Stability



ID	Contingency	Category	Category Description	Transient Stability Performance										Potential Mitigation Solutions
				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-1	3-Phase Line Fault on Eagle Mountain - Iron Mountain 230 kV line at Iron Mountain End	P1	N-1	Unstable	Unstable	Unstable	Stable	Stable	Unstable					Install Redundant Relay, Check status with SCE/MWD Protection Team
Eastern-TS-2	Eagle Mountain SLG Fault with stuck breaker CB407 at Eagle Mountain, no LBFB and fault not cleared	P4.2	Breaker Failure	Unstable	Unstable	Unstable	Stable	Unstable	Unstable					Install LBFB, Check status with SCE/MWD Protection Team
Eastern-TS-3	Eagle Mountain SLG Fault with stuck breaker CB405 at Eagle Mountain, no LBFB and fault not cleared	P4.2	Breaker Failure	Unstable	Unstable	Unstable	Stable	Stable	Unstable					Install LBFB, Check status with SCE/MWD Protection Team
Eastern-TS-4	3 Phase fault at Etiwanda 230 kV, Etiwanda-San Bernardino & Etiwanda-Vista 230 kVtrip (With Mountain View Generators turned on to Pmax)	P7.1	N-2	Stable	Stable	Stable	Unstable	Stable	Stable					Install interim RAS to reduce Mountain View generation
Eastern-TS-5	3 Phase fault at Devers 500 kV, Devers - Red Bluff 500 kV #1 trip	P1	N-1	Stable										
Eastern-TS-6	3 Phase fault at Valley 500 kV, Devers - Valley 500 kV #1 trip	P1	N-1	Stable										
Eastern-TS-7	3 Phase fault at San Bernardino 230 kV, Devers - San Bernardino 230 kV trip	P1	N-1	Stable										
Eastern-TS-8	3 Phase fault at Vista 230 kV, Devers - Vista 230 kV # 1 trip	P1	N-1	Stable										

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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-9	3 Phase fault at El Casco 230 kV, Devers - El Casco 230 kV trip	P1	N-1	Stable										
Eastern-TS-10	3 Phase fault at San Bernardino 230 kV, El Casco - San Bernardino 230 kV trip	P1	N-1	Stable										
Eastern-TS-11	3 Phase fault at Etiwanda 230 kV, Etiwanda - San Bernardino 230 kV trip	P1	N-1	Stable										
Eastern-TS-12	3 Phase fault at San Bernardino 230 kV, Etiwanda - San Bernardino 230 kV trip	P1	N-1	Stable										
Eastern-TS-13	3 Phase fault at Etiwanda 230 kV, Etiwanda - Vista 230 kV trip	P1	N-1	Stable										
Eastern-TS-14	3 Phase fault at San Bernardino 230 kV, San Bernardino - Vista 230 kV trip	P1	N-1	Stable										
Eastern-TS-15	3 Phase fault at Devers 230 kV, Devers - Mirage 230 kV trip	P1	N-1	Stable										
Eastern-TS-16	SLG fault at Devers 500 kV, Devers - Red Bluff 500 kV #1 with stuck breaker follow by Devers-Valley 500 kV #1 trip	P4.2	Breaker Failure	Stable										

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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-17	SLG fault at Devers 500 kV, Devers - Red Bluff 500 kV #2 with stuck breaker follow by Devers 1AA bank trip	P4.2	Breaker Failure	Stable										
Eastern-TS-18	SLG fault at Valley 500 kV, Valley-Serrano 500 kV with stuck breaker follow by Valley 4AA Bank trip	P4.2	Breaker Failure	Stable										
Eastern-TS-19	SLG fault at Mirage 230 kV, Devers-Mirage 230 kV with stuck breaker follow by Coachell Valley-Mirage 230 kV trip	P4.2	Breaker Failure	Stable										
Eastern-TS-20	SLG fault at Devers 230 kV, Devers - Vista 230 kV # 1 with stuck breaker follow by Devers 3A bank trip	P4.2	Breaker Failure	Stable										
Eastern-TS-21	SLG fault at Devers 230 kV, Devers - Vista 230 kV # 1 with stuck breaker follow by Devers-San Bernardino 230 kV trip	P4.2	Breaker Failure	Stable										
Eastern-TS-22	SLG fault at El Casco 230 kV, Devers - El Casco 230 kV with stuck breaker follow by El Casco 2A bank trip	P4.2	Breaker Failure	Stable										

Study Area: SCE Eastern area

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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-23	SLG fault at Mirage 230 kV, Mirage-J.Hinids 230 kV with stuck breaker follow by Mirage-Ramon 230 kV trip	P4.2	Breaker Failure	Stable										
Eastern-TS-24	3 Phase fault at Rud Bed Bulff 500 kV, Colorado River - Red Bluff 500 kV #1 & #2 trip	P6.1	N-1-1	Stable										
Eastern-TS-25	3 Phase fault at Devers 500 kV, Devers - Red Bluff 500 kV #1 & #2 trip	P6.1	N-1-1	Stable										
Eastern-TS-26	3 Phase fault at Valley 500 kV, Devers Valley 500 kV #1 & #2 trip	P6.1	N-1-1	Stable										
Eastern-TS-27	3 Phase fault at Mirage 230 kV, CVSUB230-Mirage & Ramon-Mirage 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-28	3 Phase fault at San Bernardino 230 kV, Devers-San Bernardino & Etiwanda-San Bernardino 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-29	3 Phase fault at Vista 230 kV, Devers - Vista 230 kV # 1 & #2 trip	P7.1	N-2	Stable										
Eastern-TS-30	3 Phase fault at San Bernardino 230 kV, El Casco-San Bernardino & San Bernardino-Vista230 kV trip	P7.1	N-2	Stable										

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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-31	3 Phase fault at El Casco 230 kV, El Casco-San Bernardino & Devers-San Bernardino #2 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-32	3 Phase fault at Etiwanda 230 kV, Etiwanda-San Bernardino & Devers-San Bernardino #2 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-33	3 Phase fault at San Bernardino 230 kV, Etiwanda-San Bernardino & San Bernardino-Vista 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-34	3 Phase fault at Etiwanda 230 kV, Etiwanda-San Bernardino & Etiwanda-Vista 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-35	3 Phase fault at Devers 230 kV, Devers - Mirage #1 & #2 230 kV trip	P7.1	N-2	Stable										
Eastern-TS-36	3 Phase fault at BlytheSCE 230 Bus, BlytheSCE-BlytheWALC 161 kV trip	P1	N-1	Stable										
Eastern-TS-37	3 Phase fault at Camino 230 kV , Camino-IronMTN-Gene-Mead 230 kV trip	P1	N-1	Stable										



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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-38	3 Phase fault at Camino 230 kV , Camino-IronMTN-Gene-Mead 230 kV & Blythe 1CT trip	P1	N-1	Stable										
Eastern-TS-39	3 Phase fault at EagleMTN 161 kV Bus, EagleMTN 230/161 kV Transformer #5 trip	P1	N-1	Stable										
Eastern-TS-40	3 Phase fault at EagleMTN 161 kV Bus, BlytheSCE-EagleMTN 161 kV trip	P1	N-1	Stable										
Eastern-TS-41	3 Phase fault at EagleMTN 161 kV Bus, BlytheSCE-EagleMTN 161 kV & Blythe 1CT trip (RAS) trip	P1	N-1	Stable										
Eastern-TS-42	3 Phase fault at EagleMTN 230 kV Bus, EagleMTN-IronMTN 230 kV trip	P1	N-1	Stable										
Eastern-TS-43	3 Phase fault at 20% from Gene 230 kV Bus, Gene-Parker 230 kV trip	P1	N-1	Stable										
Eastern-TS-44	3 Phase fault at 20% from Paker 230 kV Bus, Gene-Parker 230 kV trip	P1	N-1	Stable										
Eastern-TS-45	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-EagleMTN 230 kV trip	P1	N-1	Stable										

Study Area: SCE Eastern area

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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-46	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-EagleMTN 230 kV & Blythe 1CT trip	P1	N-1	Stable										
Eastern-TS-47	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage 230 kV trip	P1	N-1	Stable										
Eastern-TS-48	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage 230 kV & Blythe 1CT trip	P1	N-1	Stable										
Eastern-TS-49	3 Phase fault at Palo Verde 500 kV Bus, Colorado River-Palo Verde 500 kV trip	P1	N-1	Stable										
Eastern-TS-50	3 Phase fault at Palo Verde 500 kV Bus, Colorado River-Palo Verde 500 kV & Blythe 1CT trip	P1	N-1	Stable										
Eastern-TS-51	3 Phase fault at Palo Verde 500 kV Bus, Colorado River-Palo Verde 500 kV & Blythe All trip	P1	N-1	Stable										
Eastern-TS-52	SLG fault at Julian Hinds 230 kV Bus, Bus tie CB fault	P2.4	Breaker Fault	Stable										

Study Area: SCE Eastern area

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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-53	SLG fault at Gene 230 kV Bus, Gene Bus fault, loss Gene-Parker and Camino-IronMTN-Gene-Mead 230 kV lines	P2.4	Delay Clearing	Stable										
Eastern-TS-54	SLG fault at Camino 230 kV , Camino-IronMTN-Gene-Mead 230 kV, CB 307 stuck (close to Iron)	P4.2	Breaker Failure	Stable										
Eastern-TS-55	SLG fault at Camino 230 kV , Camino-IronMTN-Gene-Mead 230 kV, CB 208 stuck (close to Gene)	P4.2	Breaker Failure	Stable										
Eastern-TS-56	SLG fault at Blythe 161 kV, BlytheSCE-EagleMTN 161 kV, CB 872 stuck at Blythe	P4.2	Breaker Failure	Stable										
Eastern-TS-57	SLG fault at Blythe 161 kV, BlytheSCE-EagleMTN 161 kV, CB 872 stuck at Blythe & Blythe 1CT trip (RAS)	P4.2	Breaker Failure	Stable										
Eastern-TS-58	SLG fault at EagleMTN 161 kV , BlytheSCE-EagleMTN 161 kV, CB 70 stuck at EagleMTN	P4.2	Breaker Failure	Stable										
Eastern-TS-59	SLG fault at EagleMTN 161 kV , BlytheSCE-EagleMTN 161 kV, CB 70 stuck at EagleMTN	P4.2	Breaker Failure	Stable										

Study Area: SCE Eastern area

Transient Stability



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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-60	SLG fault at EagleMTN 230 kV Bus, EagleMTN-IronMTN 230 kV, CB 407 stuck at EagleMTN	P4.2	Breaker Failure	Stable										
Eastern-TS-61	SLG fault at EagleMTN 230 kV Bus, EagleMTN-IronMTN 230 kV, CB 407 stuck at EagleMTN & Blythe 1CT trip	P4.2	Breaker Failure	Stable										
Eastern-TS-62	SLG fault at IronMTN 230 kV Bus, EagleMTN-IronMTN 230 kV, CB 307 stuck (close to Iron)	P4.2	Breaker Failure	Stable										
Eastern-TS-63	SLG fault at Gene 230 kV , Gene-Parker 230 kV, CB 207 stuck (close to Gene)	P4.2	Breaker Failure	Stable										
Eastern-TS-64	SLG fault at EagleMTN 230 kV Bus, Julian Hinds-EagleMTN 230 kV, CB 405 stuck at EagleMTN	P4.2	Breaker Failure	Stable										
Eastern-TS-65	SLG fault at EagleMTN 230 kV Bus, Julian Hinds-EagleMTN 230 kV, CB 405 stuck at EagleMTN & Blythe 1CT trip	P4.2	Breaker Failure	Stable										
Eastern-TS-66	SLG fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage 230 kV, Stuck CB at J.Hinds	P4.2	Breaker Failure	Stable										

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Transient Stability



ID	Contingency	Category	Category Description	Transient Stability Performance										Potential Mitigation Solutions
				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-67	SLG fault at EagleMTN 230 kV Bus, EagleMTN 230/161 kV Transformer #5	P4.3	Breaker Failure	Stable										
Eastern-TS-68	SLG fault at 20% from BlytheSCE 161 Bus, BlytheSCE-EagleMTN 161 kV, non-redundant pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-69	SLG fault at 20% from EagleMTN 161 kV Bus, BlytheSCE-EagleMTN 161 kV, non-redundant pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-70	SLG fault at 20% from EagleMTN 230 kV Bus, EagleMTN-IronMTN 230 kV, pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-71	SLG fault at 20% from IronMTN 230 kV Bus, EagleMTN-IronMTN 230 kV, pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-72	SLG fault at EagleMTN 230 kV Bus, EagleMTN Bus, non-redundant relayfail	P5.5	Bus Relay Failure	Stable										
Eastern-TS-73	SLG fault at EagleMTN 230 kV Bus, EagleMTN Bus & Blythe 1CT trip, non-redundant relay fail	P5.5	Bus Relay Failure	Stable										
Eastern-TS-74	SLG fault at 20% from EagleMTN 230 kV Bus, Julian Hinds-EagleMTN 230 kV, pilot relay fail	P5.2	Pilot Relay Fail	Stable										

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ID	Contingency	Category	Category Description	Transient Stability Performance										Potential Mitigation Solutions
				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-75	SLG fault at 20% from EagleMTN 230 kV Bus, Julian Hinds-EagleMTN 230 kV & Blythe 1CT trip, pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-76	SLG fault at 20% from Julian Hinds 230 kV Bus, Julian Hinds-EagleMTN 230 kV, pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-77	SLG fault at 20% from Julian Hinds 230 kV Bus, Julian Hinds-EagleMTN 230 kV & Blythe 1CT trip, pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-78	SLG fault at 20% from Julian Hinds 230 kV Bus, Julian Hinds-Mirage 230 kV, , pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-79	SLG fault at 20% from Julian Hinds 230 kV Bus, Julian Hinds-Mirage 230 kV & Blythe 1CT trip, , pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-80	SLG fault at 20% from Mirage 230 kV Bus, Julian Hinds-Mirage 230 kV, , pilot relay fail	P5.2	Pilot Relay Fail	Stable										

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ID	Contingency	Category	Category Description	Transient Stability Performance										Potential Mitigation Solutions
				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-81	SLG fault at 20% from Mirage 230 kV Bus, Julian Hinds-Mirage 230 kV & Blythe 1CT trip, , pilot relay fail	P5.2	Pilot Relay Fail	Stable										
Eastern-TS-82	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-EagleMTN & Gene-Parker 230 kV trip	P6.1	N-1-1	Stable										
Eastern-TS-83	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-EagleMTN & Gene-Parker 230 kV & Blythe 1CT trip	P6.1	N-1-1	Stable										
Eastern-TS-84	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & Camino-IronMTN-Gene-Mead 230 kV trip	P6.1	N-1-1	Stable										
Eastern-TS-85	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & Camino-IronMTN-Gene-Mead 230 kV & Blythe 1CT trip	P6.1	N-1-1	Stable										
Eastern-TS-86	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & Camino-IronMTN-Gene-Mead 230 kV & Blythe 2CTs trip	P6.1	N-1-1	Stable										

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Transient Stability



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				2019 Summer Peak	2022 Summer Peak	2027 Summer Peak	2019 Spring Light Load	2022 Spring Off-Peak	2022SP Heavy Renewables & Min Gas Gen					
Eastern-TS-87	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & EagleMTN- IronMTN 230 kV & Blythe 1CT trip	P6.1	N-1-1	Stable										
Eastern-TS-88	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & EagleMTN- IronMTN 230 kV trip	P6.1	N-1-1	Stable										
Eastern-TS-89	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & EagleMTN- IronMTN 230 kV & Blythe 2CTs trip	P6.1	N-1-1	Stable										
Eastern-TS-90	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & Gene-Parker 230 kV trip	P6.1	N-1-1	Stable										
Eastern-TS-91	3 Phase fault at Julian Hinds 230 kV Bus, Julian Hinds-Mirage & Gene-Parker 230 kV & Blythe 1CT trip	P6.1	N-1-1	Stable										



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Single Contingency Load Drop

ID	Worst Contingencies	Category	Category Description	Amount of Load Drop (MW)										Potential Mitigation Solutions
				Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	
X-SLD-1														

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

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Single Source Substation with more than 100 MW Load

ID	Substation	Load Served (MW)										Potential Mitigation Solutions
		Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	
X-SS-1												

No single source substation with more than 100 MW Load