

Study Area: SCE Eastern area  
Thermal Overloads



Overloaded Facility	Contingency (All and Worst P6)	Category	Category Description	Loading % (Baseline Scenarios)					Loading % (Sensitivity Scenarios)			ISO Approved Projects & Potential Mitigation Solutions
				2021 Summer Peak	2024 Summer Peak	2029 Summer Peak	2021 Spring Off-Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	2021 SP Heavy Renewable & Min Gas Gen	
CVSUB230 - RAMON 230 kV	line_10024_Line CVSUB230 230.0 to MIRAGE 230.0 Ckt 1	P1	N-1	<100	<100	110	<100	<100	<100	<100	<100	Modifying existing RAS to trip portfolio generation at IID
	line_10024_Line CVSUB230 230.0 to MIRAGE 230.0 Ckt 1 AND gen_10057_Gen MountainView Block 1	P3	N-1, G-1	<100	<100	112	<100	<100	<100	<100	<100	
	line_10024_Line CVSUB230 230.0 to MIRAGE 230.0 Ckt 1 AND line_10027_Line PALOVRDE 500.0 to COLRIVER 500.0 Ckt 1	P6	N-1-1	<100	<100	112	<100	<100	<100	<100	<100	
Eagle Mountain 230/161 kV Transformer	line_10003a J.Hinds-Mirage 230 kV with 1 CT out	P1	N-1	108	<100	<100	<100	<100	<100	<100	<100	1-hour rating, Generation Re-dispatch
	line_10002_Line EAGLEMTN - IRON MTN 230 kV AND line_10003a_Line J.HINDS - MIRAGE 230 kV 1CT out	P6	N-1-1	239	<100	<100	<100	<100	<100	<100	167	
J.Hinds-Mirage 230 kV	Devers-Mirage 230 kV ckt 1 and 2	P7	N-2	<100	<100	100	<100	<100	<100	<100	<100	Potential RAS to trip generation at IID
Ramon-Mirage 230 kV	line_10024_Line CVSUB230 230.0 to MIRAGE 230.0 Ckt 1	P1	N-1	<100	<100	127	<100	<100	<100	<100	<100	Modifying existing RAS to trip portfolio generation at IID
	line_10024_Line CVSUB230 230.0 to MIRAGE 230.0 Ckt 1 AND gen_10057_Gen MountainView Block 1	P3	N-1, G-1	<100	<100	131	<100	<100	<100	<100	<100	
	line_10024_Line CVSUB230 230.0 to MIRAGE 230.0 Ckt 1 AND line_10027_Line PALOVRDE 500.0 to COLRIVER 500.0 Ckt 1	P6	N-1-1	<100	<100	130	<100	<100	<100	<100	<100	

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High/Low Voltages



Substation	Contingency (All and Worst P6)	Category	Category Description	Voltage PU (Baseline Scenarios)					Voltage PU (Sensitivity Scenarios)			ISO Approved Projects & Potential Mitigation Solutions
				2021 Summer Peak	2024 Summer Peak	2029 Summer Peak	2021 Spring Off-Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	2021 SP Heavy Renewable & Min Gas Gen	
None	None											

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Voltage Deviation



Substation	Contingency (All and Worst P6)	Category	Category Description	Post Cont. Voltage Deviation % (Baseline Scenarios)					Post Cont. Voltage Deviation % (Sensitivity Scenarios)			ISO Approved Projects & Potential Mitigation Solutions
				2021 Summer Peak	2024 Summer Peak	2029 Summer Peak	2021 Spring Off-Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	2021 SP Heavy Renewable & Min Gas Gen	
None	None											

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Transient Stability



Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2024 Summer Peak	2029 Summer Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	
3 Phase Fault at BlytheSCE 230 Bus, tripping BlytheSCE-BlytheWALC 161 kV	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Colorado River 500 kV, tripping Colorado River-Delaney 500 kV	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at EagleMTN 161 kV Bus, tripping EagleMTN-BlytheSCE 161 kV	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at EagleMTN 161 kV Bus, tripping EagleMTN-BlytheSCE 161 kV & Blythe 1CT	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at EagleMTN 230 kV Bus, tripping EagleMTN-IronMTN 230 kV	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV & Blythe 1CT trip (RAS)	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage 230 kV & Blythe 1CT trip (RAS)	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage 230 kV	P1	Normal Clearing	Stable	Stable	Unstable	Stable	Stable	Stable after tripping generators through Blythe RAS
3 Phase Fault at Palo Verde 500 kV Bus, tripping Colorado River-Palo Verde 500 kV	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at EagleMTN 161 kV Bus, tripping EagleMTN 230/161 kV Transformer #5	P1	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds Bus tie CB faul, loss Julian Hinds	P2	Breaker Fault	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Devers 230 kV, tripping Devers - Vista 230 kV #1 with stuck breaker followed by Devers 3A bank	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Devers 230 kV, tripping Devers - Vista 230 kV #2 with stuck breaker followed by Devers-San Bernardino 230 kV	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at El Casco 230 kV, tripping Devers - El Casco 230 kV with stuck breaker followed by El Casco 2A bank	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Devers 500 kV, tripping Devers - Red Bluff 500 kV #1 with stuck breaker followed by Devers-Valley 500 kV #1	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Devers 500 kV, tripping Devers - Red Bluff 500 kV #2 with stuck breaker followed by Devers 1AA bank	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Valley 500 kV, tripping Valley-Serrano 500 kV with stuck breaker followed by Valley 4AA Bank	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Mirage 230 kV, tripping Devers - Mirage 230 kV with stuck breaker followed by Coachell Valley-Mirage 230 kV	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation

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Transient Stability



Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2024 Summer Peak	2029 Summer Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	
SLG Fault at BlytheSCE 161 kV, tripping BlytheSCE-EagleMTN 161 kV, CB 872 stuck at BlytheSCE	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at BlytheSCE 161 kV, tripping BlytheSCE-EagleMTN 161 kV, CB 872 stuck at BlytheSCE & Blythe 1CT trip (RAS)	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 161 kV , tripping BlytheSCE-EagleMTN 161 kV, CB 70 stuck at EagleMTN	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 161 kV , tripping BlytheSCE-EagleMTN 161 kV, CB 70 stuck at EagleMTN & Blythe 1CT trip (RAS)	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 230 kV Bus, tripping EagleMTN-IronMTN 230 kV, CB 407 stuck at EagleMTN	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 230 kV Bus, tripping EagleMTN-IronMTN 230 kV, CB 407 stuck at EagleMTN & Blythe 1CT trip (RAS)	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at IronMTN 230 kV Bus, tripping EagleMTN-IronMTN 230 kV, CB 307 stuck (close to Iron)	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV, CB 405 stuck at EagleMTN	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV, CB 405 stuck at EagleMTN & Blythe 1CT trip (RAS)	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage 230 kV, Stuck CB 509 at J.Hinds	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Mirage 230 kV, tripping Mirage-J.Hinds 230 kV with stuck breaker followed by Mirage-Ramon 230 kV Blythe 1CT trip (RAS)	P4	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Mirage 230 kV, tripping Mirage-J.Hinds 230 kV with stuck breaker followed by Mirage-Ramon 230 kV	P4	Delayed Clearing	Stable	Stable	Unstable	Stable	Stable	Stable after tripping generators through Blythe RAS
SLG Fault at EagleMTN 230 kV Bus, tripping EagleMTN 230/161 kV Transformer #5, Stuck CB432 at EagleMTN	P4	Breaker Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from BlytheSCE 161 Bus, tripping BlytheSCE-EagleMTN 161 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from EagleMTN 161 kV Bus, tripping BlytheSCE-EagleMTN 161 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from EagleMTN 230 kV Bus, tripping EagleMTN-IronMTN 230 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation

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Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2024 Summer Peak	2029 Summer Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	
SLG Fault at 20% from IronMTN 230 kV Bus, tripping EagleMTN-IronMTN 230 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 230 kV Bus, tripping EagleMTN Bus, non-redundant relayfail	P5	Bus relay Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at EagleMTN 230 kV Bus, tripping EagleMTN Bus & Blythe 1CT trip, non-redundant relay fail	P5	Bus relay Failure	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from EagleMTN 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Unstable	Unstable	Stable	Stable	Stable after tripping generators through Blythe RAS
SLG Fault at 20% from EagleMTN 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV & Blythe 1CT trip (RAS), non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from Julian Hinds 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from Julian Hinds 230 kV Bus, tripping Julian Hinds-EagleMTN 230 kV & Blythe 1CT trip (RAS), non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage 230 kV, non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Unstable	Stable	Stable	Stable after tripping generators through Blythe RAS
SLG Fault at 20% from Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage 230 kV & Blythe 1CT trip (RAS),non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at 20% from Mirage 230 kV Bus, tripping Julian Hinds-Mirage 230 kV, , non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Unstable	Stable	Stable	Stable after tripping generators through Blythe RAS
SLG Fault at 20% from Mirage 230 kV Bus, tripping Julian Hinds-Mirage 230 kV & Blythe 1CT trip (RAS), , non-redundant pilot relay fail	P5	Zone2 Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
SLG Fault at Devers 230 kV, tripping Devers Substation 230 kV Bus & AA Banks	P5	Delayed Clearing	Stable	Unstable	Stable	Stable	Stable	Potential RAS to trip generation at IID
SLG Fault at Etiwanda 230 kV, tripping Etiwanda Substation 230 kV	P5	Delayed Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Red Bulff 500 kV, tripping Colorado River - Red Bluff 500 kV #1 & #2	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Devers 500 kV, tripping Devers - Red Bluff 500 kV #1 & #2	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Valley 500 kV, tripping Devers Valley 500 kV #1 & #2	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at El Casco 230 kV, tripping Etiwanda - San Bernardino & Devers - El Cosco 230kV	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation

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Transient Stability



Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2024 Summer Peak	2029 Summer Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	
3 Phase Fault at San Bernardino 230 kV, tripping Etiwanda - San Bernardino & El Casco-San Bernardino 230kV	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at El Casco 230 kV, tripping San Bernardino - Vista & Devers - El Cosco 230kV	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at San Bernardino 230 kV, tripping San Bernardino - Vista & Devers - San Bernardino 230kV	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-EagleMTN & Gene-Parker 230 kV	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-EagleMTN & Gene-Parker 230 kV & Blythe 1CT trip	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & Camino-IronMTN-Gene-Mead 230 kV	P6	Normal Clearing	Unstable	Unstable	Unstable	Unstable	Stable	Operation Procedure GCC128/ISO7720
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & Camino-IronMTN-Gene-Mead 230 kV & Blythe 1CT trip	P6	Normal Clearing	Unstable	Stable	Unstable	Stable	Stable	Operation Procedure GCC128/ISO7720
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & Camino-IronMTN-Gene-Mead 230 kV & Blythe 2CTs trip (RAS)	P6	Normal Clearing	Unstable	Stable	Stable	Stable	Stable	Operation Procedure GCC128/ISO7720
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & EagleMTN-IronMTN 230 kV	P6	Normal Clearing	Unstable	Unstable	Unstable	Unstable	Stable	Operation Procedure GCC128/ISO7720
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & EagleMTN-IronMTN 230 kV & Blythe 1CT trip (RAS)	P6	Normal Clearing	Unstable	Stable	Unstable	Stable	Stable	Operation Procedure GCC128/ISO7720
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & EagleMTN-IronMTN 230 kV & Blythe 2CTs trip (RAS)	P6	Normal Clearing	Unstable	Stable	Stable	Stable	Stable	Operation Procedure GCC128/ISO7720
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & Gene-Parker 230 kV	P6	Normal Clearing	Stable	Stable	Unstable	Stable	Stable	Stable after tripping generators through Blythe RAS
3 Phase Fault at Julian Hinds 230 kV Bus, tripping Julian Hinds-Mirage & Gene-Parker 230 kV & Blythe 1CT trip	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Colorado River 500 kV, tripping Colorado River - Palo Verde 500 kV & Delaney-Colorado River 500 kV	P6	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Mirage 230 kV, tripping Mirage-Ramon & Coachella Valley-Mirage 230 kV	P6	Normal Clearing	Unstable	Unstable	Unstable	Unstable	Unstable	Further discussion and investigation with IID
3 Phase Fault at Mirage 230 kV, tripping Mirage-Ramon & Coachella Valley-Mirage 230 kV with RAS	P6	Normal Clearing	Unstable	Unstable	Stable	Unstable	Stable	Further discussion and investigation with IID
SLG Fault at Mirage 230 kV, tripping Mirage-Ramon & Coachella Valley-Mirage 230 kV	P7*	Normal Clearing	Stable	Unstable	Stable	Stable	Stable	Further discussion and investigation with IID



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Transient Stability



Contingency	Category	Category Description	Transient Stability Performance					Potential Mitigation Solutions
			Baseline Scenarios			Sensitivity Scenarios		
			2024 Summer Peak	2029 Summer Peak	2024 Spring Off-Peak	2024 SP High CEC Forecast	2024 SpOP Hi Renew & Min Gas Gen	
SLG Fault at Mirage 230 kV, tripping Mirage-Ramon & Coachella Valley-Mirage 230 kV with RAS	P7*	Normal Clearing	Stable	Unstable	Stable	Stable	Stable	Further discussion and investigation with IID
3 Phase Fault at Devers 230 kV, tripping Devers - El Cosco & Devers - Vista 230kV #2	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Devers 230 kV, tripping Devers - Mirage 230 kV #1 & #2	P7	Normal Clearing	Stable	Unstable	Stable	Stable	Stable	Further discussion and investigation with IID
3 Phase Fault at Devers 230 kV, tripping Devers - Mirage 230 kV #1 & #2 & RAS tripping IID generation	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Vista 230 kV, tripping Devers - Vista 230 kV # 1 & #2	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at San Bernardino 230 kV, tripping El Casco-San Bernardino & San Bernardino - Vista 230 kV	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at San Bernardino 230 kV, tripping Devers-San Bernardino & Etiwanda-San Bernardino 230 kV	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at San Bernardino 230 kV, tripping Etiwanda-San Bernardino & San Bernardino-Vista 230 kV	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at San Bernardino 230 kV, tripping Etiwanda-San Bernardino & San Bernardino-Vista230 kV & trip MV #3 (RAS)	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation
3 Phase Fault at Vista 230 kV, tripping Mira Loma-Vista 230 kV #1 & #2	P7	Normal Clearing	Stable	Stable	Stable	Stable	Stable	No Violation



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Single Contingency Load Drop

Worst Contingency	Category	Category Description	Amount of Load Drop (MW)										Potential Mitigation Solutions
			Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	

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

Substation	Load Served (MW)										Potential Mitigation Solutions
	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	Select..	

No single source substation with of more than 100 MW.