

2012/2013 ISO Reliability Assessment - Preliminary Study Results

Study Area: **SCE Antelope-Bailey - Summer Peak without Renewables**



Thermal Overloads

ID	Overloaded Facility	Worst Contingency	Category	Category Description	Loading (%)			Potential Mitigation Solutions
					2014 Summer Peak	2017 Summer Peak	2022 Summer Peak	
AB-T-1	LANCASTER - TAP 69 66kV ck.1	Line ANTELOPE/LANCASTER/OASIS 66.0/TAP 68 66.0 Circuit 1,Line DEL SUR/LANCASTER/RITEAID/TAP 50 66.0 Circuit 1	C	L-1/L-1	106%	109%	110%	SPS to shed load at Lancaster 66kV substation.

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Voltage Deviations

ID	Substation	Worst Contingency	Category	Category Description	Post Cont. Voltage Deviation %			Potential Mitigation Solutions
					2014 Summer Peak	2017 Summer Peak	2022 Summer Peak	
AB-DV-1	SHUTTLE 66kV	Line ANTELOPE/LANCSTR/LANPRI/SHUTTLE/TAP 70/69 66.0 Circuit 1,Line ANTELOPE/QUARTZHILL/SHUTTLE/TAP 93 66.0 Circuit 1	C	L-1/L-1	10.41%	14.13%	13.43%	Manually switch in shunt caps in Antelope-Bailey area after the first contingency.

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High/Low Voltage

ID	Substation	Worst Contingency	Category	Category Description	Voltage (PU)			Potential Mitigation Solutions
					2014 Summer Peak	2017 Summer Peak	2022 Summer Peak	
AB-V-1	SHUTTLE 66kV	Line ANTELOPE/LANCSTR/LANPRI/SHUTTLE/TAP 70/69 66.0 Circuit 1,Line ANTELOPE/QUARTZHILL/SHUTTLE/TAP 93 66.0 Circuit 1	C	L-1/L-1	>.90	0.87	0.89	Manually switch in shunt caps in Antelope-Bailey area after the first contingency.



Transient Stability

ID	Contingency	Category	Category Description	Transient Stability Performance			Potential Mitigation Solutions
				2014 Summer Peak	2017 Summer Peak	2022 Summer Peak	

No transient stability issues identified.



Post-Transient Thermal Overloads

ID	Overloaded Facility	Worst Contingency	Category	Category Description	Loading (%)			Potential Mitigation Solutions
					2014 Summer Peak	2017 Summer Peak	2022 Summer Peak	

No post- transient thermal overloads identified.

Post-Transient Voltage Deviations

ID	Substation	Worst Contingency	Category	Category Description	Post Cont. Voltage Deviation %			Potential Mitigation Solutions
					2014 Summer Peak	2017 Summer Peak	2022 Summer Peak	

No post-transient voltage deviations identified.

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Single Contingency Load Drop

ID	Worst Contingency	Category	Category Description	Amount of Load Drop (MW)			Potential Mitigation Solutions
				2014	2017	2022	

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
		2014	2017	2022	

No single source substation with more than 100 MW Load