

2013/2014 ISO Reliability Assessment - Study Results

Study Area: **PG&E Greater Bay Area De Anza - Summer Peak**



Thermal Overloads

ID	Overloaded Facility	Worst Contingency	Category	Category Description	Loading (%)			Potential Mitigation Solutions
					2015 Summer Peak	2018 Summer Peak	2023 Summer Peak	
DeAn-SP-T-01	Newark-Applied Materials 115 kV Line	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Breaker	189%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completed
DeAn-SP-T-02	Lawrence-Monta Vista 115 kV Line	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Breaker	163%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completed
DeAn-SP-T-03	Applied Material-Britton 115 kV Line	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Breaker	137%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completed
DeAn-SP-T-04	Newark-Lawrence 115 kV Line	Newark-Applied Materials 115 kV Line _Lawrence - Monta Vista 115 kV	C3	N-1-1	118%	125%	128%	Re-rate or reconductor line. Drop load either manually or thru SPS as appropriate

Voltage Deviations

ID	Substation	Worst Contingency	Category	Category Description	Post Cont. Voltage Deviation %			Potential Mitigation Solutions
					2015 Summer Off-Peak	2018 Summer Light Load	N/A	
DeAn-OP-DV-01	LOYOLA 60kV	B2_29_Loyola-Monta Vista 60 kV Line	B	N-1	6.00%	7.00%	-	Add Reactive Support
DeAn-OP-DV-02	LOS ALTS 60kV	B2_29_Loyola-Monta Vista 60 kV Line	B	N-1	5.00%	7.00%	-	Add Reactive Support
DeAn-OP-DV-03	LOS GATS 60kV	B2_32_Monta Vista-Los Gatos 60 kV Line	B	N-1	-5.00%	-7.00%	-	Add Reactive Support

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High/Low Voltage



ID	Substation	Worst Contingency	Category	Category Description	Voltage (PU)			Potential Mitigation Solutions
					2015 Summer Peak	2018 Summer Peak	2023 Summer Peak	
DeAn-SP-V-01	Britton Area	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Breaker	0.74 - 0.86	>0.90	>0.90	Action Pland before Monta Vista 230 kV Bus Upgrade Project is completed

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Study Area: **PG&E Greater Bay Area De Anza - Summer Off-Peak & Summer Light Load**

High/Low Voltage



ID	Substation	Worst Contingency	Category	Category Description	Voltage (PU)			Potential Mitigation Solutions
					2015 Summer Off-Peak	2018 Summer Light Load	N/A	
DeAn-OP-V-01	LOS GATS 60kV	B2_32_Monta Vista-Los Gatos 60 kV Line	B	N-1	1.11	1.17	-	Add Reactive Support



Single Contingency Load Drop

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

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

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Single Contingency Load Drop

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

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

No single source substation with more than 100 MW Load

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Single Source Substation with more than 100 MW Load

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

No single source substation with more than 100 MW Load