

## 2013/2014 ISO Reliability Assessment - Preliminary 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	Lawrence-Monta Vista 115 kV Line(MNTA VSA-PHLPS_JT)	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Bus	114%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completetd
DeAn-SP-T-02	Newark-Applied Materials 115 kV Line (LCKHD J1-LAWRENCE)	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Bus	189%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completetd
DeAn-SP-T-03	Newark-Applied Materials 115 kV Line(LCKHD J2 AMD JCT)	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Bus	143%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completetd
DeAn-SP-T-04	Lawrence-Monta Vista 115 kV Line(LAWRENCE-PHLPS_JT)	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Bus	163%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completetd
DeAn-SP-T-05	Applied Material-Britton 115 kV Line	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Bus	137%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completetd
DeAn-SP-T-06	Newark-Applied Materials 115 kV Line( APP MAT-AMD JCT)	C2-1_CB FAULT AT 30705 MONTA VISTA SUB 230 CB202	C2	Bus	142%	<100%	<100%	Action Plan before Monta Vista 230 kV Bus Upgrade Project is completetd
DeAn-SP-T-07	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

San Onofre Nuclear Generation Station was retired on June 7, 2013 and therefore was removed from the base cases used for the 2013/14 ISO transmission planning process.

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



## 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

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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 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