

2010 LCR Study Humboldt and North Coast/ North Bay

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Stakeholder Meeting

April 14, 2009

Humboldt and North Coast/North Bay Areas





Humboldt Load and Resources (MW)

		2010
Load	=	200
Transmission Losses	=	9
Total Load	=	209
Market Generation	=	135
Muni Generation	=	0
QF/Self-Gen Generation	=	48
Total Qualifying Capacity	=	183



Critical Contingencies Humboldt Area





Critical Contingencies Humboldt Area

Humboldt Overall – Category B

Contingency: The outage of Bridgeville-Cottonwood 115 kV line with one of the Humboldt Bay units out of service

LCR need: 179 MW (including 45 MW of QF/Self generation)

Limiting component: Reactive margin within Humboldt



Changes

Since our last stakeholder meeting:

1) New Humboldt Bay repowering project is been removed because the in service date has been moved out past winter of 2010

2) Updated NQC

Since last year:

1) Total LCR need has increased by 2 MW mainly because load growth (2 MW higher)

Your comments and questions are welcome.

For written comments, please send to: RegionalTransmission@caiso.com



North Coast/Bay Load and Resources (MW)

		2010
Load	=	1549
Transmission Losses	=	65
Total Load	=	1614
Market Generation	=	736
Muni Generation	=	131
QF Generation	=	18
Total Qualifying Capacity	=	885



North Coast and North Bay





Eagle Rock Sub-Area

Eagle Rock Sub-area – Category C

Contingency: Eagle Rock-Silverado- Fulton 115 kV line and Cortina #4 230/115 kV bank.

LCR need: 240 MW (includes 3 MW of QF/Muni generation and 3 MW of deficiency)

Limiting component: Thermal overload on Fulton-Hopland 60 kV line

Eagle Rock Sub-area – Category B

Contingency: Cortina #4 230/115 kV bank.

LCR need: 120 MW (includes 3 MW of QF/Muni generation)

Limiting component: Thermal overload on Fulton-Hopland 60 kV line



Fulton and Lakeville Sub-areas

Fulton Sub-area – Category C

- Contingency: Lakeville-Ignacio #1 230 kV line and Crocket-Sobrante #1 230 kV line.
- LCR need: 559 MW (includes 17 of QF and 64 MW of Muni generation)

Limiting component: Thermal overload on Fulton-Lakeville #1 230 kV line

Lakeville Sub-area (NC/NB Overall) – Category B

- Contingency: Vaca Dixon-Lakeville 230 kV line and DEC power plant out of service
- LCR need: 700 MW (includes 149 MW of QF/Muni generation)
- Limiting component: Thermal overloads on the Vaca Dixon-Tulucay 230 kV line



Changes

Since our last stakeholder meeting:

1) Fulton sub-area – revert back to the worst contingency from last year

2) Lakeville sub-area – need has been decreased due to higher needs in the Pittsburg and Oakland sub-areas

3) Moved some units from QF to Market status

4) Updated NQC

Since last year:

1) Load forecast is up by 18 MW

2) Total LCR need has decreased by 66 MW mainly because of Lakeville sub-area decrease

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