

2010 LCR Study Big Creek/Ventura and LA Basin



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Stakeholder Meeting

April 14, 2009

Big Creek/Ventura Area



Big Creek/Ventura Area 2010 Load & Resources

Load

Load	Pump Load	Transmission Losses	Total
(MW)	(MW)	(MW)	(MW)
4734	156	143	5033

Available Generation

	QF/Wind	Muni	Nuclear	Market	Max. Qualifying Capacity
	(MW)	(MW)	(MW)	(MW)	(MW)
Available Gen	926	21	0	4146	5093



Rector and Vestal Sub-areas

Rector:

Contingency: Vestal-Rector #1 or #2 230 kV line with Eastwood unit out of service
Limiting component: thermal overload the remaining Vestal-Rector #1 or #2 230 kV line
LCR Need: 687 MW (includes 8 MW of QF/Wind generation)

Vestal:

Contingency: Magunden-Vestal #1 or #2 230 kV line with Eastwood unit out of service Limiting components: thermal overload the remaining Magunden-Vestal #1 or #2 230 kV line LCR Need: 810 MW (includes 107 MW of QF/Wind generation)

All resources in Rector apply towards the LCR need in Vestal sub-area.



Big Creek/Ventura Overall

Category B LCR:

Contingency: Sylmar-Pardee #1 or #2 230 kV line with Ormond Beach #2 unit out of service

Limiting component: thermal overload the remaining Sylmar-Pardee #1 or #2 230 kV line

LCR Need: 3212 MW (includes 840 MW of QF, 21 MW of Muni and 86 MW of wind generation)

Category C LCR:

Contingency: Lugo-Victorville 500 kV followed by the loss of Sylmar-Pardee #1 or #2 230 kV line or vice versa

Limiting components: thermal overload the remaining Sylmar-Pardee #1 or #2 230 kV line

LCR Need: 3334 MW (includes 840 MW of QF, 21 MW of Muni and 86 MW of wind generation)



Changes

Since our last stakeholder meeting:

1) Correct (decrease by about 250 MW) the pump load to match the CEC forecast

2) The pump decrease is the main reason for the decrease of about 250 MW on the LCR needs

3) Updated NQC

Since last year:

- 1) Load forecast is up by 96 MW
- 2) One new small resource modeled in the area
- 3) Overall LCR has increased by 156 MW

Your comments and questions are welcome.

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



LA Basin Area



LA Basin Area 2010 Load & Resources

Load

Load	Pump Load	Transmission Losses	Total
(MW)	(MW)	(MW)	(MW)
19527	14	517	20058

Available Generation

	QF/Wind	Muni	Nuclear	Market	Max. Qualifying
	(MW)	(MW)	(MW)	(MW)	Capacity (MW)
Available Gen	879	793	2246	8212	12130



Western LA Basin Sub-area

Contingency: The loss of the Serrano – Villa Park #1 or #2 and Serrano – Lewis 230 kV lines

Limiting components: thermal overload of the remaining Serrano – Villa Park #1 or #2 230 kV line

LCR Need: 4909 MW (includes 615 MW of QF/Wind, 388 MW of Muni and 2246 MW of nuclear generation)



LA Basin Overall

Contingency: Palo Verde-Devers 500 kV line with SONGS #2 unit out of service

Limiting Component: South of Lugo operating rating (6400 MW with new Rancho Vista 500kV substation)

LCR Need: 9735 MW (includes 879 MW of QF/Wind, 793 MW of Muni and 2246 MW of nuclear generation)



Changes

Since our last stakeholder meeting:

1) Updated NQC

Since last year:

1) Load forecast is up by 222 MW

2) A few new small resources have been modeled

3) Remove Barre sub-area and add Western sub-area

3) More units dispatched in the Eastern area due to the decrease of Western (Barre) sub-area LCR needs have resulted in an overall total increase of just 8 MW between the two years

Your comments and questions are welcome.

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