

Application No.: R.12-03-014

Exhibit No.: ISO-5

Witness: Robert Sparks

Order Instituting Rulemaking to Integrate
and Refine Procurement Policies and
Consider Long-Term Procurement Plans.

Rulemaking 12-03-014

2014 Local Capacity Technical Analysis
Final Report and Study Results

Pages 2 & 94



**2014
LOCAL CAPACITY TECHNICAL
ANALYSIS**

**FINAL REPORT
AND STUDY RESULTS**

April 30, 2013

Below is a comparison of the 2014 vs. 2013 total LCR:

2014 Local Capacity Requirements

Local Area Name	Qualifying Capacity			2014 LCR Need Based on Category B			2014 LCR Need Based on Category C with operating procedure		
	QF/Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Deficiency	Total (MW)	Existing Capacity Needed**	Deficiency	Total (MW)
Humboldt	70	173	243	145	0	145	195	0	195
North Coast / North Bay	150	771	921	623	0	623	623	0	623
Sierra	1288	762	2050	1414	0	1414	1803	285*	2088
Stockton	212	392	604	354	25*	379	446	255*	701
Greater Bay	1336	6280	7616	3747	0	3747	4423	215*	4638
Greater Fresno	318	2510	2828	1857	0	1857	1857	0	1857
Kern	613	64	677	421	14*	435	421	41*	462
LA Basin***	2242	9547	11789	10063	0	10063	10430	0	10430
Big Creek/ Ventura	1112	4206	5318	2156	0	2156	2250	0	2250
San Diego/ Imperial Valley***	200	4506	4706	3605	167*	3772	3605	458*	4063
Total	7541	29211	36752	24385	206	24591	26053	1254	27307

2013 Local Capacity Requirements

Local Area Name	Qualifying Capacity			2013 LCR Need Based on Category B			2013 LCR Need Based on Category C with operating procedure		
	QF/Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Deficiency	Total (MW)	Existing Capacity Needed**	Deficiency	Total (MW)
Humboldt	55	162	217	143	0	143	190	22*	212
North Coast / North Bay	130	739	869	629	0	629	629	0	629
Sierra	1274	765	2039	1408	0	1408	1712	218*	1930
Stockton	216	404	620	242	0	242	413	154*	567
Greater Bay	1368	6296	7664	3479	0	3479	4502	0	4502
Greater Fresno	314	2503	2817	1786	0	1786	1786	0	1786
Kern	684	0	684	295	0	295	483	42*	525
LA Basin	4452	8675	13127	10295	0	10295	10295	0	10295
Big Creek/ Ventura	1179	4097	5276	2161	0	2161	2241	0	2241
San Diego	158	3991	4149	2938	0	2938	2938	144*	3082
Total	9830	27632	37462	23376	0	23376	25189	580	25769

10. San Diego-Imperial Valley Area

Area Definition

The transmission tie lines forming a boundary around the Greater San Diego-Imperial Valley area include:

- 1) Imperial Valley – North Gila 500 kV Line
- 2) Otay Mesa – Tijuana 230 kV Line
- 3) San Onofre - San Luis Rey #1 230 kV Line
- 4) San Onofre - San Luis Rey #2 230 kV Line
- 5) San Onofre - San Luis Rey #3 230 kV Line
- 6) San Onofre – Talega #1 230 kV Line
- 7) San Onofre – Talega #2 230 kV Line
- 8) Imperial Valley – El Centro 230 kV Line
- 9) Imperial Valley – Dixieland 230 kV Line
- 10) Imperial Valley – La Rosita 230 kV Line

The substations that delineate the Greater San Diego-Imperial Valley area are:

- 1) Imperial Valley is in North Gila is out
- 2) Otay Mesa is in Tijuana is out
- 3) San Onofre is out San Luis Rey is in
- 4) San Onofre is out San Luis Rey is in
- 5) San Onofre is out San Luis Rey is in
- 6) San Onofre is out Talega is in
- 7) San Onofre is out Talega is in
- 8) Imperial Valley is in El Centro is out
- 9) Imperial Valley is in Dixieland is out
- 10) Imperial Valley is in La Rosita is out

Total 2014 busload within the defined area: 5073 MW with 127 MW of losses resulting in total load + losses of 5200 MW.

Total units and qualifying capacity available in this area:

MKT/SCHED RESOURCE ID	BUS #	BUS NAME	kV	NQC	UNIT ID	LCR SUB-AREA NAME	NQC Comments	CAISO Tag
BORDER_6_UNITA1	22149	CALPK_BD	13.8	45.00	1	San Diego, Border		Market

the operators will have enough generation (other operating procedures) in order to bring the system within a safe operating zone and get prepared for the next contingency as required by NERC transmission operations standards.