



California Independent
System Operator Corporation

August 1, 2011

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

**Re: California Independent System Operator Corporation
Docket Nos. ER08-1178-____, and EL08-88-____
April 2011 Exceptional Dispatch Report (Chart 2 data)**

Dear Secretary Bose:

Pursuant to the September 2, 2009 and May 4, 2010 orders in the above referenced docket, the California Independent System Operator Corporation submits the attached report. The attached report provides Exceptional Dispatch information that the Commission directed be included in "Chart 2", which was set forth in Appendix A to the September 2 Order, as modified the Commission's May 4 Order.

The attached report provides Chart 2 data for the month of April 2011. The attached Chart 2 report also includes the price impact analysis for the month of April 2011 required by Paragraph 44 of the September 2 Order as well as the degree of mitigation analysis required by ISO tariff section 34.9.4 for the month of April 2011.

Respectfully submitted,

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Exceptional Dispatch Report

Table 2: April 2011

ISO Market Services

August 1, 2011

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Introduction

This report is filed pursuant to FERC's September 2, 2009, and May 4, 2010, orders in ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15th of each month and one issued on the 30th of each month. This report provides data on the frequency, reasons and costs for Exceptional Dispatches issued in April 2011.

In addition, this report contains a price impact analysis as prescribed by FERC in its September 2 order. The price impact analysis for the month of April is presented in Appendix B. This report also includes the degree of mitigation analysis for April 2011 required by section 34.9.4 of the ISO tariff. As it has previously explained, the ISO indicated that it would start including the degree of mitigation analysis beginning with the month of August 2009 when the more limited Exceptional Dispatch bid mitigation took effect. This analysis will compare those Exceptional Dispatches subject to bid mitigation (i.e. Exceptional Dispatches to address noncompetitive constraints and Delta Dispatch), and determine the cost difference between the Exceptional Dispatch bid mitigation settlement rules and what the settlement amount would have been had the Exceptional Dispatches not been subject to bid mitigation. The Exceptional Dispatch bid mitigation analysis for April is presented in Appendix C.

The Nature of Exceptional Dispatch

The ISO can issue exceptional dispatch instructions for a resource as a pre-day-ahead unit commitment, a post day-ahead unit commitment or a real-time exceptional dispatch. A pre-day-ahead unit commitment is an exceptional dispatch instruction committing a resource at or above its physical minimum (Pmin) operating level in the day-ahead market. A post-day-ahead unit commitment is an exceptional dispatch instruction committing a resource at or above its (Pmin) operating level in the real-time market. A real-time exceptional dispatch instructs a resource to operate at or above its physical minimum operating point. For the purposes of this report, a real-time exceptional dispatch above the resource's day-ahead award is considered an incremental exceptional dispatch instruction and a real-time exceptional dispatch below the day-ahead award is considered a decremental dispatch instruction. The ISO issues exceptional dispatch instructions primarily to manage transmission constraints that are not modeled in the market software. In addition to constraints, the ISO also issues exceptional dispatch instructions relating to reliability requirements and, on occasion, software failures. Reliability requirements are calculated for both local area and the system wide needs, and are classified into various requirements including local generation, transmission management, non-modeled transmission outages, ramping and intertie emergency assistance. Whenever the ISO issues an exceptional dispatch instruction, these instructions are logged by the operators into the scheduling and logging system (SLIC), including an associated reason for each exceptional dispatch instruction.

In April 2011, the ISO issued exceptional dispatches for the following local area generation requirement: (1) G-206, San Diego area generation requirements. Exceptional dispatch instructions were also issued for the following transmission management requirements: (1) T-129, transmission facilities in Fresno area; (2) T-132, transmission facilities in San Diego and Imperial Valley area; (3) T-135, Lugo-Victorville 500 kV Line and Sylmar Transformer Banks Operation; (4) T-138, transmission facilities in Humboldt area; 5) T-165, transmission facilities in Palermo Rio-Oso area; and (6) other transmission outages in PG&E, SCE and SDG&E area.

In Table 1, the reason codes starting with “G” refer to an ISO operating procedure for generation requirements and the reason codes starting with “T” refer to an ISO operating procedure for transmission facilities. Most of the generation procedures are internal to the ISO and not available publicly on the ISO website; however, all of the transmission procedures are available on the ISO website.¹

The following additional reasons for exceptional dispatch instructions in April 2011 were not related to specific generation or transmission operating procedures: (1) Software Limitation, when an exceptional dispatch instruction was used to bridge schedules across days for resources with a minimum down time of 24 hours, as the ISO software does not handle multi day commitment. (For instance, a resource has a day-ahead schedule from 0600 till 2300, and then is shut down in 2400. If this resource had a minimum down time of 24 hours and it is required the following day, then the ISO issues an exceptional dispatch to commit this resource in 2400 so that it can be dispatched economically in the following day. Software limitation reason was also used for exceptional dispatches to manually issue shut down instructions to a resource because of a temporary Automatic Dispatch System (“ADS”) failure, or similar issues.); (2) Market Disruption, when the exceptional dispatch instructions were issued due to HASP failures; and (3) Ramp Rate, when exceptional dispatch instructions were issued to dispatch a resource above its physical minimum to a level where the resource has significantly higher ramp rate capability. For example, a resource could have a ramp rate of 2 MW/min at its physical minimum of 100 MW, but a significantly higher ramp rate of 10 MW/min at 250 MW. The operators could issue an exceptional dispatch for this resource to be dispatched to 250 MW, so that the resource could respond to the anticipated steep load ramp or to a potential contingency. There were a few other reasons used to explain exceptional dispatch instructions in April, which are self explanatory.

¹ A list of all of the ISO’s Operating Procedures and all the publicly available Operating Procedures are available at the following link:

<http://www.caiso.com/thegrid/operations/opsdoc/index.html>

As mentioned earlier, the data shown in Table 1 is based on a template specified in the September 2009 order.² This table contains all the information published in the Table 1 of the first report for April. In addition, it contains volume (MWh) and cost information. Each entry in Table 1 is a summary of exceptional dispatches classified by (1) the reason for the exceptional dispatch; (2) the location of the resource by Participating Transmission Owner (PTO) service area; (3) the Local Reliability Area (LRA) where applicable; (4) the market in which the exceptional dispatch occurred (day-ahead vs. real-time); and (5) the date of the exceptional dispatch. For each classification the following information is provided: (1) Megawatts (MW); (2) Commitment (3); Inc or Dec; (4) Hours; (5) Begin Time; (6) End Time; (7) Total Volume (MWh); (8) Min Load Cost; (9) Start Up Cost; (10) CC6470; (11) ED Volume (MWh INC/DEC); (12) CC6470 INC; (13) CC6470 DEC; (14) CC6482; (15) CC6488; and (16) CC6620. Each column is defined as follows:

- MW column shows the range of exceptional dispatch instruction in MW for the classification.
- Commitment column specifies if there was a unit commitment for the classification.
- The INC/DEC/NA column specifies if there was an incremental dispatch (INC), a decremental dispatch (DEC), or only a unit commitment (NA). The Begin Time and End Time columns show the start and end time of exceptional dispatch for the classification respectively.
- The Hours column is the time difference between begin time and end time rounded up to the next hour.
- The total volume column shows the total MWh dispatch quantity dispatched for that classification. This quantity includes the minimum load quantity, the imbalance energy quantity, and the exceptional dispatch quantity.
- The Min-Load Cost column shows eligible minimum load cost for the classification.
- The Start-Up Cost column shows the eligible start up cost for the classification. Please note that the ISO does not explicitly pay resources for its start up and minimum load costs; however, it ensures that resources are compensated adequately through its bid cost recovery process.³
- The CC6470 column shows the total imbalance energy costs for the classification. This cost contains the portion of exceptional dispatch instruction that was settled as optimal energy by virtue of its bid price being less than the LMP in that specific settlement interval.

² The data in Table 1 is principally SLIC information supplemented with data from the Market Quality System (MQS) and Settlements database. The volume and cost information is based on t+51B Recalculation Statements.

³ For further details regarding the Bid Cost Recovery process please refer to section 11.8 of the ISO tariff.

- The ED Volume MWh (MWh INC/DEC) column shows the incremental or the decremental portion of the real-time exceptional dispatch MWh for the classification. The CC6470-INC shows that portion of incremental exceptional dispatch instruction which is settled at the resource specific LMP.
- The CC6470-DEC column shows that portion of decremental exceptional dispatch instruction which is settled at the resource specific LMP. Both these charge codes are portion of the real-time instructed imbalance energy charge code (6470).⁴
- The CC6482 column shows the real-time excess cost for the classification.⁵
- The CC6488 column shows the real-time exceptional dispatch uplift settlement for the classification.⁶ The CC6620 shows the bid cost recovery payment for the classification. This cost is shown for all pre-day-ahead unit commitments only.

Charge codes 6470, 6470 INC, 6470 DEC, 6482 and 6488 are shown in Table 1 because all these charge code pertain to real-time exceptional dispatch MWh quantities. The classification of data is further explained by way of example in Attachment A.

⁴ For further details please refer to the BPM configuration Guide: Real-Time Instructed Imbalance Energy Settlement published on the ISO's website.

⁵ For further details please refer to the BPM configuration Guide: Real Time Excess Cost for Instructed Energy Settlement published on the ISO's website.

⁶ For further details please refer to the BPM configuration Guide: Real Time Exceptional dispatch uplift Settlement published on the ISO's website.

Table 1: Exceptional Dispatches in April 2011

**California Independent System Operator Corporation
Exceptional Dispatch Report
July 31, 2011**

Chart 2: Table of Exceptional Dispatches for Period 01/April/2011 - 30/April/2011

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
1	RT	COI Mitigation	N/A	N/A	21-Apr-11	200	Yes	DEC	3	11:40	13:04	-240.20	\$0	\$0	\$565	(\$293)	\$0	\$7,271	\$0	\$0	\$0
2	RT	COI Mitigation	N/A	N/A	23-Apr-11	200	Yes	INC	1	22:05	22:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	RT	COI Mitigation	N/A	N/A	24-Apr-11	160	Yes	INC	24	0:00	23:59	0.00	\$0	\$0	\$0	(\$46)	\$0	\$458	\$0	\$0	\$0
4	RT	COI Mitigation	PG&E	N/A	23-Apr-11	200	No	INC	3	21:49	23:35	359.43	\$18,120	\$0	(\$8,665)	\$0	\$0	\$0	\$0	\$0	\$0
5	RT	COI Mitigation	SDG&E	San Diego	24-Apr-11	200	No	INC	20	4:00	23:59	4,056.41	\$0	\$0	(\$5,678)	\$96	(\$940)	\$0	(\$2,668)	\$0	\$0
6	RT	Customer Request	SCE	LA Basin	29-Apr-11	0	Yes	INC	1	11:00	11:29	0.00	\$0	\$120	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
7	RT	Dispatchability	N/A	N/A	8-Apr-11	54	No	DEC	6	3:00	8:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	RT	Dispatchability	N/A	N/A	8-Apr-11	6- 138	No	INC	7	2:55	8:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	RT	Dispatchability	SDG&E	San Diego	6-Apr-11	63	No	INC	18	4:20	21:59	1,238.79	\$615	\$0	\$7,862	\$185	(\$3,753)	\$0	(\$2,351)	\$0	\$0
10	RT	G-206	SDG&E	San Diego	1-Apr-11	20	Yes	INC	7	0:00	6:59	145.27	\$8,824	\$0	(\$3,749)	\$77	\$159	\$0	(\$2,591)	\$0	\$0
11	RT	G-206	SDG&E	San Diego	2-Apr-11	12- 290	No	INC	9	0:40	8:09	1,210.47	\$0	\$0	(\$18,143)	\$0	\$0	\$0	\$0	\$0	\$0
12	RT	G-206	SDG&E	San Diego	6-Apr-11	200	Yes	INC	11	13:30	23:59	2,816.48	\$155,337	\$38,394	(\$50,178)	\$0	\$0	\$0	\$0	\$0	\$0
13	RT	G-206	SDG&E	San Diego	10-Apr-11	155	Yes	INC	5	2:00	6:59	768.54	\$26,775	\$0	\$833	\$0	\$0	\$0	\$0	\$0	\$0
14	RT	Generation Outage	N/A	N/A	7-Apr-11	0	No	INC	1	21:00	21:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	RT	Generation Outage	N/A	N/A	28-Apr-11	300	No	INC	2	19:45	20:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	RT	Generation Outage	PG&E	Fresno	28-Apr-11	407	No	INC	1	16:12	16:25	96.11	\$0	\$0	(\$1,588)	\$0	\$0	\$0	\$0	\$0	\$0
17	RT	Generation Outage	SCE	Big Creek-Ventura	28-Apr-11	200	No	INC	1	16:19	16:30	36.67	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	RT	Load Forecast Uncertainty	SDG&E	San Diego	23-Apr-11	137	No	DEC	9	10:40	18:59	8.09	\$0	\$0	(\$366)	(\$22)	\$0	(\$401)	\$0	\$0	\$0
19	RT	Load Forecast Uncertainty	SDG&E	San Diego	23-Apr-11	61- 81	No	INC	9	10:40	18:59	1,119.18	\$0	\$0	(\$30,946)	\$0	\$0	\$0	\$0	\$0	\$0
20	RT	Market Disruption	N/A	N/A	2-Apr-11	350	No	INC	1	6:00	6:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	RT	Over Generation	N/A	N/A	2-Apr-11	454	No	DEC	1	8:02	8:55	-256.46	\$0	\$0	(\$3,000)	\$0	\$0	\$0	\$0	\$0	\$0
22	RT	Over Generation	PG&E	Bay Area	2-Apr-11	0	No	INC	1	8:11	8:59	7.37	\$0	\$0	\$110	\$112	(\$5,587)	\$0	(\$2,215)	\$0	\$0
23	RT	Over Generation	PG&E	Fresno	2-Apr-11	320- 871	No	DEC	3	7:58	9:10	-651.96	\$0	\$0	(\$6,689)	\$0	\$0	\$0	\$0	\$0	\$0
24	RT	Over Generation	PG&E	Fresno	2-Apr-11	-320- 160	No	INC	4	6:00	9:10	-496.16	\$0	\$0	(\$4,414)	\$821	(\$37,456)	\$0	\$0	\$0	\$0
25	RT	Over Generation	PG&E	Fresno	6-Apr-11	5- 320	No	DEC	2	5:55	6:04	-19.69	\$0	\$0	\$1,519	\$0	\$0	\$0	\$0	\$0	\$0

Department of Market Services – California ISO

Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
26	RT	Over Generation	PG&E	Fresno	14-Apr-11	308	No	DEC	1	5:00	5:29	-144.38	\$0	\$0	(\$104)	\$249	(\$8,445)	\$0	\$0	\$0	\$0
27	RT	Over Generation	PG&E	Fresno	26-Apr-11	5- 723	No	DEC	3	4:57	6:59	-651.25	\$0	\$0	(\$3,471)	\$0	\$0	\$0	\$0	\$0	\$0
28	RT	Over Generation	PG&E	Fresno	27-Apr-11	10- 640	No	DEC	3	4:55	6:59	-111.93	\$0	\$0	\$596	\$377	(\$9,921)	\$0	(\$4,502)	\$0	\$0
29	RT	Over Generation	PG&E	Fresno	27-Apr-11	0	No	INC	1	5:30	5:44	-26.25	\$0	\$0	\$273	\$451	(\$22,554)	\$0	\$0	\$0	\$0
30	RT	Over Generation	PG&E	N/A	2-Apr-11	50	No	DEC	1	8:09	8:50	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	RT	Over Generation	PG&E	Sierra	2-Apr-11	243	No	DEC	1	8:09	8:50	-147.48	\$0	\$0	(\$1,573)	\$79	(\$3,279)	\$0	\$0	\$0	\$0
32	RT	Over Generation	SCE	Big Creek- Ventura	2-Apr-11	202- 372	No	DEC	1	8:02	8:55	-45.65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
33	RT	Over Generation	SCE	Big Creek- Ventura	2-Apr-11	0	No	INC	1	8:19	8:59	11.15	\$0	\$0	\$215	\$0	\$0	\$0	\$0	\$0	\$0
34	RT	Over Generation	SCE	LA Basin	2-Apr-11	270	No	DEC	1	8:10	8:59	-218.02	\$0	\$0	(\$1,978)	\$0	\$0	\$0	\$0	\$0	\$0
35	RT	Over Generation	SCE	LA Basin	2-Apr-11	0	No	INC	1	8:11	8:59	1.90	\$0	\$0	\$28	\$892	(\$37,236)	\$0	\$0	\$0	\$0
36	RT	Over Generation	SDG&E	N/A	2-Apr-11	65	No	DEC	1	8:19	8:59	-54.17	\$0	\$0	(\$501)	\$0	\$0	\$0	\$0	\$0	\$0
37	RT	Over Generation	SDG&E	San Diego	2-Apr-11	123	No	INC	1	8:19	8:59	110.73	\$0	\$0	\$1,451	\$0	\$0	\$0	\$0	\$0	\$0
38	RT	Path 26	SCE	LA Basin	25-Apr-11	20	Yes	INC	21	3:00	23:59	708.71	\$59,580	\$0	(\$30,363)	\$0	\$0	\$0	\$0	\$0	\$0
39	RT	Path 26	SCE	LA Basin	26-Apr-11	20	Yes	INC	24	0:00	23:59	520.78	\$68,092	\$0	(\$8,371)	\$0	\$0	\$0	\$0	\$0	\$0
40	RT	Pump Management	PG&E	Fresno	6-Apr-11	0	No	INC	1	6:19	6:39	-105.00	\$0	\$0	\$3,508	\$0	(\$18)	\$0	\$0	\$0	\$0
41	RT	Pump Management	PG&E	Fresno	19-Apr-11	0	No	INC	1	5:25	5:39	-26.25	\$0	\$0	(\$55)	\$0	\$0	\$0	\$0	\$0	\$0
42	RT	Pump Management	PG&E	Fresno	22-Apr-11	83	No	DEC	2	5:25	6:24	-32.18	\$0	\$0	(\$343)	\$0	\$0	\$0	\$0	\$0	\$0
43	RT	Pump Management	PG&E	Fresno	22-Apr-11	0	No	INC	2	5:15	6:24	-239.71	\$0	\$0	(\$7)	\$0	\$0	\$0	\$0	\$0	\$0
44	RT	Ramp Rate	N/A	N/A	16-Apr-11	380	Yes	INC	3	18:30	20:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	RT	Ramp Rate	PG&E	Bay Area	16-Apr-11	380	No	INC	3	17:30	19:59	796.92	\$32,028	\$0	(\$8,668)	\$0	\$0	\$0	\$0	\$0	\$0
46	RT	Ramp Rate	SCE	LA Basin	9-Apr-11	146- 288	No	DEC	5	16:55	20:59	-769.22	\$0	\$0	\$2,628	\$0	\$0	\$0	\$0	\$0	\$0
47	RT	Ramp Rate	SCE	LA Basin	9-Apr-11	103- 295	No	INC	5	16:55	20:59	-174.94	\$0	\$0	(\$1,181)	\$0	\$0	\$0	\$0	\$0	\$0
48	RT	Ramp Rate	SCE	LA Basin	10-Apr-11	272- 288	No	DEC	3	18:40	20:59	-861.38	\$0	\$0	\$41,225	\$3	(\$82)	\$0	\$0	\$0	\$0
49	RT	Ramp Rate	SCE	LA Basin	11-Apr-11	288	No	DEC	6	16:30	21:59	-984.46	\$0	\$0	\$28,585	\$0	\$0	\$0	\$0	\$0	\$0
50	RT	Ramp Rate	SCE	LA Basin	11-Apr-11	103- 295	No	INC	6	16:30	21:59	11.97	\$0	\$0	(\$2,829)	(\$73)	\$0	(\$481)	\$0	\$0	\$0
51	RT	Ramp Rate	SCE	LA Basin	12-Apr-11	146	No	DEC	5	16:30	20:59	-139.59	\$0	\$0	\$3,146	\$0	\$0	\$0	\$0	\$0	\$0
52	RT	Ramp Rate	SCE	LA Basin	12-Apr-11	15- 340	No	INC	5	16:00	20:59	829.72	\$0	\$0	(\$35,566)	\$0	\$0	\$0	\$0	\$0	\$0
53	RT	Ramp Rate	SCE	LA Basin	13-Apr-11	45- 85	No	DEC	5	16:30	20:59	-49.31	\$0	\$0	\$1,647	\$0	\$0	\$0	\$0	\$0	\$0
54	RT	Ramp Rate	SCE	LA Basin	13-Apr-11	40- 340	No	INC	5	16:30	20:59	525.02	\$0	\$0	(\$22,868)	\$0	\$0	\$0	\$0	\$0	\$0
55	RT	Ramp Rate	SCE	LA Basin	14-Apr-11	64- 130	No	DEC	16	5:00	20:59	-214.27	\$0	\$0	\$2,145	\$2	(\$49)	\$0	(\$2)	\$0	\$0
56	RT	Ramp Rate	SCE	LA Basin	14-Apr-11	50- 340	No	INC	16	5:00	20:59	588.54	\$0	\$0	(\$339,983)	(\$73)	\$0	(\$133)	\$0	\$0	\$0
57	RT	Ramp Rate	SCE	LA Basin	16-Apr-11	147	No	DEC	5	16:45	20:59	-140.09	\$0	\$0	\$4,820	\$0	\$0	\$0	\$0	\$0	\$0
58	RT	Ramp Rate	SCE	LA Basin	16-Apr-11	170- 215	No	INC	5	16:40	20:59	661.05	\$0	\$0	(\$662,4	\$0	\$0	\$0	\$0	\$0	\$0

Department of Market Services – California ISO

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
															86)						
59	RT	Ramp Rate	SCE	LA Basin	18-Apr-11	96- 161	No	DEC	12	9:50	20:59	-497.47	\$0	\$0	\$20,614	\$0	\$0	\$0	\$0	\$0	\$0
60	RT	Ramp Rate	SCE	LA Basin	18-Apr-11	40- 215	No	INC	12	9:50	20:59	832.77	\$0	\$0	(\$825,520)	\$0	\$0	\$0	\$0	\$0	\$0
61	RT	Ramp Rate	SCE	LA Basin	19-Apr-11	74- 215	No	INC	15	6:30	20:59	1,351.41	\$0	\$0	(\$1,348,017)	\$0	\$0	\$0	\$0	\$0	\$0
62	RT	Ramp Rate	SCE	LA Basin	20-Apr-11	88	Yes	DEC	4	17:05	20:34	-2.91	\$0	\$0	\$252	\$0	\$0	\$0	\$0	\$0	\$0
63	RT	Ramp Rate	SCE	LA Basin	20-Apr-11	119- 320	Yes	INC	4	17:05	20:34	512.70	\$0	\$0	(\$496,212)	\$0	\$0	\$0	\$0	\$0	\$0
64	RT	Ramp Rate	SCE	LA Basin	21-Apr-11	88- 288	No	DEC	8	16:35	23:59	-457.22	\$0	\$0	\$8,153	\$0	\$0	\$0	\$0	\$0	\$0
65	RT	Ramp Rate	SCE	LA Basin	21-Apr-11	74- 340	No	INC	8	16:35	23:59	1,032.43	\$0	\$0	(\$1,023,720)	\$0	\$0	\$0	\$0	\$0	\$0
66	RT	Ramp Rate	SCE	LA Basin	22-Apr-11	244- 340	No	INC	5	16:15	20:29	988.86	\$0	\$0	(\$971,534)	\$0	\$0	\$0	\$0	\$0	\$0
67	RT	Ramp Rate	SCE	LA Basin	28-Apr-11	340	No	INC	5	16:23	20:59	1,509.07	\$0	\$0	(\$308,176)	\$0	\$0	\$0	\$0	\$0	\$0
68	RT	Ramp Rate	SCE	LA Basin	29-Apr-11	71	No	INC	3	18:49	20:59	188.31	\$0	\$0	(\$8,415)	\$0	\$0	\$0	\$0	\$0	\$0
69	RT	Ramp Rate	SDG&E	San Diego	16-Apr-11	63	No	INC	5	16:50	20:59	222.04	\$5,995	\$0	(\$3,832)	\$0	\$0	\$0	\$0	\$0	\$0
70	RT	Ramp Rate	SDG&E	San Diego	30-Apr-11	68	No	INC	4	18:40	21:59	463.11	\$1,971	\$0	(\$29,545)	\$0	\$0	\$0	\$0	\$0	\$0
71	RT	SDG&E Import	PG&E	Fresno	1-Apr-11	96	Yes	INC	2	16:47	17:29	72.00	\$1,940	\$162	(\$7,894)	\$0	\$0	\$0	\$0	\$0	\$0
72	RT	SDG&E Import	PG&E	N/A	1-Apr-11	380	No	INC	2	16:46	17:29	321.10	\$9,987	\$296	(\$40,387)	\$0	\$0	\$0	\$0	\$0	\$0
73	RT	SDG&E Import	SDG&E	San Diego	12-Apr-11	45	No	INC	1	21:05	21:39	33.69	\$2,440	\$319	(\$1,302)	\$0	\$0	\$0	\$0	\$0	\$0
77	RT	Software Limitation	N/A	N/A	1-Apr-11	380	Yes	INC	2	17:20	18:04	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
78	RT	Software Limitation	N/A	N/A	6-Apr-11	261	Yes	DEC	1	7:50	7:54	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
79	RT	Software Limitation	N/A	N/A	6-Apr-11	0	Yes	INC	1	8:00	8:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
80	RT	Software Limitation	N/A	N/A	8-Apr-11	0	Yes	INC	2	19:50	20:19	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
81	RT	Software Limitation	N/A	N/A	13-Apr-11	185	No	INC	2	9:07	10:26	-508.08	\$0	\$0	\$3,143	\$0	\$0	\$0	\$0	\$0	\$0
82	RT	Software Limitation	N/A	N/A	14-Apr-11	185	Yes	INC	19	5:25	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
83	RT	Software Limitation	N/A	N/A	19-Apr-11	200	No	DEC	1	22:09	22:16	-31.45	\$0	\$0	\$909	\$0	\$0	\$0	\$0	\$0	\$0
84	RT	Software Limitation	N/A	N/A	19-Apr-11	0	No	INC	1	22:04	22:20	38.37	\$2,112	\$0	(\$1,628)	\$0	\$0	\$0	\$0	\$0	\$0
85	RT	Software Limitation	N/A	N/A	22-Apr-11	22	Yes	INC	18	6:45	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
86	RT	Software Limitation	N/A	N/A	24-Apr-11	185	Yes	INC	6	13:50	18:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
87	RT	Software Limitation	N/A	N/A	25-Apr-11	413- 523	No	DEC	6	6:30	11:29	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
88	RT	Software Limitation	N/A	N/A	25-Apr-11	0	No	INC	6	6:25	11:29	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
89	RT	Software Limitation	N/A	N/A	27-Apr-11	1	Yes	DEC	8	13:35	20:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90	RT	Software Limitation	N/A	N/A	27-Apr-11	32	Yes	INC	10	11:10	20:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
91	RT	Software Limitation	PG&E	Bay Area	6-Apr-11	20	Yes	INC	2	10:30	11:56	0.00	\$495	\$66	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
92	RT	Software Limitation	PG&E	Bay Area	14-Apr-11	260	No	INC	2	21:30	22:29	256.81	\$9,964	\$0	(\$15,248)	\$821	(\$37,456)	\$0	\$0	\$0	\$0

Department of Market Services – California ISO

Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
93	RT	Software Limitation	PG&E	Bay Area	19-Apr-11	0	No	INC	1	22:02	22:18	12.60	\$0	\$0	(\$539)	\$0	\$0	\$0	\$0	\$0	\$0
94	RT	Software Limitation	PG&E	Bay Area	28-Apr-11	0	Yes	INC	2	6:30	7:29	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95	RT	Software Limitation	PG&E	Bay Area	29-Apr-11	0	No	INC	2	0:25	1:24	3.33	\$0	\$0	\$3	\$0	\$0	\$0	\$0	\$0	\$0
96	RT	Software Limitation	PG&E	Fresno	1-Apr-11	96	Yes	INC	15	4:30	18:04	226.62	\$1,940	\$162	(\$4,630)	\$0	\$0	\$0	\$0	\$0	\$0
97	RT	Software Limitation	PG&E	Fresno	4-Apr-11	0	Yes	DEC	2	12:50	13:19	1.75	\$0	\$0	(\$62)	(\$79)	\$0	\$325	\$0	\$0	\$0
98	RT	Software Limitation	PG&E	Fresno	4-Apr-11	0	No	INC	1	5:15	5:44	0.00	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
99	RT	Software Limitation	PG&E	Fresno	5-Apr-11	0	No	INC	2	5:56	6:29	-86.54	\$0	\$0	\$338	\$0	\$0	\$0	\$0	\$0	\$0
100	RT	Software Limitation	PG&E	Fresno	6-Apr-11	111	Yes	INC	2	10:30	11:49	0.00	\$450	\$356	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
101	RT	Software Limitation	PG&E	Fresno	10-Apr-11	0	No	DEC	1	9:00	9:31	13.55	\$0	\$0	(\$466)	\$0	\$0	\$0	\$0	\$0	\$0
102	RT	Software Limitation	PG&E	Fresno	10-Apr-11	0	No	INC	1	8:25	8:59	-134.71	\$0	\$0	\$5,862	\$326	(\$8,797)	\$0	(\$2,054)	\$0	\$0
103	RT	Software Limitation	PG&E	Fresno	11-Apr-11	0	No	INC	18	5:45	22:59	-2.75	\$0	\$0	\$352	\$0	\$0	\$0	\$0	\$0	\$0
104	RT	Software Limitation	PG&E	Fresno	12-Apr-11	0	Yes	DEC	2	19:30	20:14	4.67	\$0	\$0	(\$150)	\$0	\$0	\$0	\$0	\$0	\$0
105	RT	Software Limitation	PG&E	Fresno	13-Apr-11	83	No	DEC	3	21:40	23:29	-37.34	\$0	\$0	(\$14)	\$0	\$0	\$0	\$0	\$0	\$0
106	RT	Software Limitation	PG&E	Fresno	13-Apr-11	0	No	INC	2	22:30	23:29	-3.46	\$0	\$0	\$113	\$38	(\$3,222)	\$0	(\$218)	\$0	\$0
107	RT	Software Limitation	PG&E	Fresno	14-Apr-11	0	No	INC	1	5:15	5:59	-33.18	\$0	\$0	\$21	\$54	(\$3,972)	\$0	(\$599)	\$0	\$0
108	RT	Software Limitation	PG&E	Fresno	15-Apr-11	0	Yes	DEC	1	6:10	6:59	12.30	\$0	\$0	(\$28)	\$263	(\$14,427)	\$0	\$0	\$0	\$0
109	RT	Software Limitation	PG&E	Fresno	15-Apr-11	0	Yes	INC	1	5:00	5:59	6.20	\$0	\$0	(\$39)	\$0	\$0	\$0	\$0	\$0	\$0
110	RT	Software Limitation	PG&E	Fresno	17-Apr-11	308	No	DEC	2	7:46	8:19	-89.54	\$0	\$0	(\$1,210)	\$0	\$0	\$0	\$0	\$0	\$0
111	RT	Software Limitation	PG&E	Fresno	17-Apr-11	7	No	INC	2	7:46	8:19	-11.49	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
112	RT	Software Limitation	PG&E	Fresno	18-Apr-11	0	No	INC	1	5:00	5:54	-26.61	\$0	\$0	\$64	\$60	(\$2,283)	\$0	(\$1,087)	\$0	\$0
113	RT	Software Limitation	PG&E	Fresno	19-Apr-11	0	No	DEC	2	21:40	22:29	3.43	\$0	\$0	(\$76)	(\$129)	\$0	\$2,812	\$0	(\$2,766)	\$0
114	RT	Software Limitation	PG&E	Fresno	19-Apr-11	83	No	INC	2	21:40	22:29	38.04	\$0	\$0	(\$1,406)	(\$269)	\$0	\$6,733	\$0	(\$7,466)	\$0
115	RT	Software Limitation	PG&E	Fresno	21-Apr-11	0	No	INC	1	23:00	23:59	-144.38	\$0	\$0	\$8,596	(\$206)	\$0	\$5,527	\$0	(\$5,296)	\$0
116	RT	Software Limitation	PG&E	Fresno	22-Apr-11	0	No	INC	1	23:25	23:54	20.04	\$0	\$0	(\$161)	(\$75)	\$0	\$2,005	\$0	(\$1,826)	\$0
117	RT	Software Limitation	PG&E	Fresno	25-Apr-11	0	Yes	DEC	2	7:30	8:14	14.60	\$0	\$0	(\$375)	(\$227)	\$0	\$5,678	\$0	(\$5,494)	\$0
118	RT	Software Limitation	PG&E	Fresno	25-Apr-11	0	Yes	INC	2	5:00	6:14	-16.59	\$0	\$0	\$94	(\$96)	\$0	\$2,163	\$0	(\$1,872)	\$0
119	RT	Software Limitation	PG&E	Fresno	28-Apr-11	57- 109	Yes	INC	2	16:10	17:09	65.39	\$2,573	\$630	(\$578)	(\$289)	\$0	\$3,192	\$0	(\$3,699)	\$0
120	RT	Software Limitation	PG&E	Fresno	29-Apr-11	0	Yes	INC	2	0:25	1:24	1.17	\$209	\$162	\$1	(\$19)	\$0	\$379	\$0	(\$376)	\$0
121	RT	Software Limitation	PG&E	Fresno	30-Apr-11	0	No	INC	1	8:00	8:44	-13.13	\$0	\$0	\$8	\$197	(\$5,901)	\$0	\$0	(\$2,109)	\$0
122	RT	Software Limitation	PG&E	N/A	13-Apr-11	30- 69	Yes	DEC	2	4:30	5:14	-0.31	\$0	\$0	\$4	\$3	(\$83)	\$0	\$0	\$0	\$0
123	RT	Software Limitation	PG&E	N/A	13-Apr-11	30	Yes	INC	2	4:30	5:14	-0.31	\$0	\$0	\$4	\$138	(\$5,973)	\$0	\$0	\$0	\$0
124	RT	Software Limitation	PG&E	N/A	19-Apr-11	100	No	INC	1	22:15	22:51	4.97	\$720	\$35	(\$142)	\$0	\$0	\$0	\$0	\$0	\$0
125	RT	Software Limitation	PG&E	N/A	23-Apr-11	30- 86	Yes	DEC	8	1:00	8:59	-363.06	\$0	\$0	\$1,531	\$0	\$0	\$0	\$0	\$0	\$0
126	RT	Software Limitation	PG&E	N/A	26-Apr-11	47	No	INC	1	8:09	8:59	-16.92	\$1,502	\$0	\$942	\$0	\$0	\$0	\$0	\$0	\$0
127	RT	Software Limitation	PG&E	Sierra	23-Apr-11	10- 30	Yes	INC	15	9:25	23:59	323.32	\$10,962	\$0	(\$6,763)	\$6	(\$164)	\$0	\$0	(\$32)	\$0
128	RT	Software Limitation	PG&E	Sierra	25-Apr-11	20- 30	Yes	INC	2	5:05	6:59	54.23	\$2,610	\$110	(\$1,911)	\$233	(\$4,120)	\$0	\$0	(\$3,699)	\$0

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Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
129	RT	Software Limitation	PG&E	Stockton	19-Apr-11	10	No	INC	2	22:45	23:59	4.79	\$0	\$0	(\$629)	\$17	(\$205)	\$0	\$0	(\$85)	\$0
130	RT	Software Limitation	PG&E	Stockton	21-Apr-11	5	No	INC	2	0:00	1:19	3.28	\$0	\$0	(\$496)	\$5	(\$128)	\$0	\$0	(\$37)	\$0
131	RT	Software Limitation	PG&E	Stockton	28-Apr-11	22	Yes	INC	2	16:20	17:09	14.46	\$909	\$20	(\$107)	\$74	(\$1,331)	\$0	\$0	(\$1,290)	\$0
132	RT	Software Limitation	SCE	Big Creek- Ventura	19-Apr-11	50	No	DEC	1	22:02	22:18	-6.13	\$0	\$0	\$6	\$739	(\$18,936)	\$0	\$0	(\$1,769)	\$0
133	RT	Software Limitation	SCE	Big Creek- Ventura	28-Apr-11	174	Yes	INC	7	16:20	22:09	82.91	\$3,288	\$393	(\$73,478)	\$4	\$2	\$0	\$0	(\$94)	\$0
134	RT	Software Limitation	SCE	LA Basin	4-Apr-11	0	No	INC	2	6:15	7:14	7.41	\$230	\$0	(\$120)	\$16	(\$49)	\$0	\$0	(\$503)	\$0
135	RT	Software Limitation	SCE	LA Basin	22-Apr-11	161	No	DEC	2	22:46	23:16	-106.63	\$0	\$0	\$1,642	\$203	(\$3,682)	\$0	\$0	(\$3,676)	\$0
136	RT	Software Limitation	SCE	LA Basin	23-Apr-11	18	No	DEC	5	19:00	23:59	-89.25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
137	RT	Software Limitation	SCE	LA Basin	24-Apr-11	18	No	DEC	24	0:00	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
138	RT	Software Limitation	SCE	LA Basin	25-Apr-11	18	No	DEC	24	0:00	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
139	RT	Software Limitation	SCE	LA Basin	25-Apr-11	40- 84	Yes	INC	17	7:13	23:14	148.11	\$5,958	\$706	(\$4,923)	\$0	\$0	\$0	\$0	\$0	\$0
140	RT	Software Limitation	SCE	LA Basin	26-Apr-11	18	No	DEC	17	7:00	23:59	-305.25	\$0	\$0	(\$2,966)	\$0	\$0	\$0	\$0	\$0	\$0
141	RT	Software Limitation	SCE	LA Basin	27-Apr-11	0	No	INC	24	0:00	23:59	0.00	\$0	\$0	\$0	\$56	(\$1,109)	\$0	\$0	(\$440)	\$0
142	RT	Software Limitation	SCE	LA Basin	28-Apr-11	171	Yes	INC	8	16:10	23:29	135.41	\$3,513	\$688	(\$123,256)	\$0	\$0	\$0	\$0	\$0	\$0
143	RT	Software Limitation	SCE	LA Basin	29-Apr-11	0	Yes	INC	16	0:25	15:49	2.56	\$0	\$21	\$3	\$0	\$0	\$0	\$0	\$0	\$0
144	RT	Software Limitation	SDG&E	San Diego	1-Apr-11	44- 361	Yes	INC	4	15:06	18:09	256.83	\$989	\$150	(\$26,581)	\$0	\$0	\$0	\$0	\$0	\$0
145	RT	Software Limitation	SDG&E	San Diego	4-Apr-11	215- 216	No	DEC	2	9:13	10:23	-283.68	\$0	\$0	\$8,986	\$0	\$0	\$0	\$0	\$0	\$0
146	RT	Software Limitation	SDG&E	San Diego	4-Apr-11	18	Yes	INC	2	17:30	18:24	0.00	\$0	\$0	(\$0)	(\$20)	\$0	\$429	\$0	(\$397)	\$0
147	RT	Software Limitation	SDG&E	San Diego	12-Apr-11	0	Yes	INC	17	0:00	16:09	0.00	\$0	\$48	(\$0)	(\$59)	\$0	\$1,297	\$0	(\$1,090)	\$0
148	RT	Software Limitation	SDG&E	San Diego	14-Apr-11	200	Yes	INC	1	23:45	23:59	48.59	\$0	\$0	(\$117)	\$0	\$0	\$0	\$0	\$0	\$0
149	RT	Software Limitation	SDG&E	San Diego	15-Apr-11	0	Yes	INC	1	0:00	0:29	35.85	\$0	\$0	(\$1,526)	(\$346)	\$0	\$7,038	\$0	(\$7,956)	\$0
150	RT	Software Limitation	SDG&E	San Diego	28-Apr-11	72	Yes	INC	6	16:10	21:19	42.90	\$2,018	\$56	(\$42,504)	\$0	\$0	\$0	\$0	\$0	\$0
151	RT	Software Limitation	SDG&E	San Diego	29-Apr-11	0	Yes	INC	2	0:30	1:29	0.00	\$0	\$173	\$0	(\$472)	\$0	\$10,715	\$0	(\$11,575)	\$0
74	RT	SP26 Capacity	SCE	LA Basin	29-Apr-11	300	No	INC	8	12:00	19:59	1,196.52	\$80,888	\$0	(\$17,549)	\$0	\$0	\$0	\$0	\$0	\$0
75	RT	SP26 Capacity	SCE	N/A	30-Apr-11	40- 80	Yes	INC	14	7:00	20:59	678.10	\$67,108	\$21,549	(\$31,917)	(\$393)	\$0	\$16,521	\$0	(\$20,762)	\$0
76	RT	SP26 Capacity	SDG&E	San Diego	30-Apr-11	20	Yes	INC	4	15:00	18:09	102.82	\$3,680	\$0	(\$7,225)	\$0	\$0	\$0	\$0	\$0	\$0
152	RT	System Energy	N/A	N/A	5-Apr-11	150	Yes	INC	1	1:00	1:59	0.00	\$0	\$0	\$0	(\$75)	\$0	\$2,101	\$0	(\$3,012)	\$0
153	RT	System Energy	N/A	N/A	7-Apr-11	200- 500	Yes	INC	3	21:00	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
154	RT	System Energy	N/A	N/A	9-Apr-11	525	Yes	INC	1	23:00	23:59	0.00	\$0	\$0	\$0	(\$272)	\$0	\$6,243	\$0	(\$7,696)	\$0
155	RT	System Energy	N/A	N/A	12-Apr-11	1190	Yes	INC	1	7:00	7:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
156	RT	System Energy	N/A	N/A	15-Apr-11	300- 370	Yes	INC	24	0:00	23:59	0.00	\$0	\$0	\$0	(\$262)	\$0	\$5,286	\$0	(\$6,831)	\$0
157	RT	System Energy	N/A	N/A	16-Apr-11	353- 1185	Yes	INC	5	18:00	22:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
158	RT	System Energy	N/A	N/A	17-Apr-11	400	No	INC	1	19:00	19:59	0.00	\$0	\$0	\$0	(\$121)	\$0	\$1,986	\$0	(\$1,355)	\$0
159	RT	System Energy	N/A	N/A	18-Apr-11	250	Yes	INC	1	16:00	16:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
160	RT	System Energy	N/A	N/A	20-Apr-11	1194	Yes	INC	1	6:00	6:59	-109.00	\$0	\$0	(\$137)	(\$352)	\$0	\$6,307	\$0	(\$11,765)	\$0
161	RT	System Energy	N/A	N/A	21-Apr-11	350	Yes	INC	1	1:00	1:59	50.00	\$0	\$0	(\$5,556)	\$0	\$0	\$0	\$0	\$0	\$0
162	RT	System Energy	N/A	N/A	24-Apr-11	309	Yes	INC	1	7:00	7:59	0.00	\$0	\$0	\$0	(\$77)	\$0	\$1,345	\$0	(\$2,707)	\$0
163	RT	System Energy	N/A	N/A	27-Apr-11	300	Yes	INC	1	9:00	9:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
164	RT	System Energy	N/A	N/A	28-Apr-11	50-1039	Yes	INC	9	13:00	21:59	0.00	\$0	\$0	\$0	(\$116)	\$0	\$3,733	\$0	(\$6,498)	\$0
165	RT	System Energy	N/A	N/A	29-Apr-11	150	No	DEC	1	13:00	13:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
166	RT	System Energy	N/A	N/A	29-Apr-11	192- 300	Yes	INC	2	12:00	13:59	0.00	\$0	\$0	\$0	(\$478)	\$0	\$15,729	\$0	(\$24,688)	\$0
167	RT	System Energy	N/A	N/A	30-Apr-11	550	Yes	INC	1	1:00	1:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
168	RT	System Reliability	PG&E	Bay Area	4-Apr-11	40	No	INC	1	12:06	12:44	78.27	\$0	\$0	(\$21,628)	(\$556)	\$0	\$13,053	\$0	(\$25,490)	\$0
169	RT	System Reliability	PG&E	Bay Area	23-Apr-11	45	Yes	INC	9	15:30	23:59	859.81	\$28,212	\$34,313	(\$32,507)	\$0	\$0	\$0	\$0	\$0	\$0
170	RT	System Reliability	PG&E	Bay Area	24-Apr-11	45	Yes	INC	15	9:00	23:59	674.61	\$49,785	\$0	\$189	(\$414)	\$0	\$6,772	\$0	(\$17,142)	\$0
171	RT	System Reliability	PG&E	Bay Area	25-Apr-11	45	Yes	INC	24	0:00	23:59	1,856.92	\$79,656	\$0	(\$67,720)	\$0	\$0	\$0	\$0	\$0	\$0
172	RT	System Reliability	SCE	Big Creek-Ventura	6-Apr-11	65- 300	Yes	INC	12	8:30	19:59	2,555.92	\$33,758	\$0	(\$15,350)	(\$443)	\$0	\$18,401	\$0	(\$18,126)	\$0
173	RT	System Reliability	SCE	LA Basin	24-Apr-11	20	Yes	INC	13	11:30	23:59	249.17	\$35,465	\$33,625	\$82	\$0	\$0	\$0	\$0	\$0	\$0
174	RT	System Reliability	SDG&E	San Diego	25-Apr-11	20- 40	Yes	INC	18	6:00	23:59	252.32	\$12,456	\$4,633	(\$7,917)	(\$178)	\$0	\$6,186	\$0	(\$3,605)	\$0
175	RT	System Reliability	SDG&E	San Diego	26-Apr-11	40	Yes	INC	21	0:00	20:59	882.55	\$50,956	\$0	(\$13,199)	\$0	\$0	\$0	\$0	\$0	\$0
176	RT	T-129	PG&E	Fresno	1-Apr-11	9- 24	No	DEC	24	0:30	23:59	-412.03	\$0	\$0	\$13,214	(\$1,287)	\$0	\$61,595	\$0	(\$47,362)	\$0
177	RT	T-129	PG&E	Fresno	2-Apr-11	19	No	DEC	24	0:00	23:59	-444.00	\$0	\$0	\$3,979	\$0	\$0	\$0	\$0	\$0	\$0
178	RT	T-129	PG&E	Fresno	3-Apr-11	19	No	DEC	24	0:00	23:59	-444.00	\$0	\$0	\$5,120	(\$324)	\$0	\$7,022	\$0	(\$3,219)	\$0
179	RT	T-129	PG&E	Fresno	4-Apr-11	19	No	DEC	24	0:00	23:59	-443.23	\$0	\$0	\$17,378	(\$26)	\$0	\$742	\$0	(\$304)	\$0
180	RT	T-129	PG&E	Fresno	5-Apr-11	0	No	INC	24	0:00	23:59	-0.77	\$0	\$0	(\$0)	(\$312)	\$0	\$14,788	\$0	(\$4,273)	\$0
181	RT	T-129	PG&E	Fresno	13-Apr-11	5- 15	No	DEC	13	8:25	20:34	-139.36	\$0	\$0	\$1,585	\$0	\$0	\$0	\$0	\$0	\$0
182	RT	T-129	PG&E	Fresno	13-Apr-11	0	No	INC	1	20:35	20:59	-1.25	\$0	\$0	\$47	\$0	\$0	\$0	\$0	\$0	\$0
183	RT	T-129	PG&E	Fresno	14-Apr-11	5- 10	No	DEC	17	7:24	23:59	-167.69	\$0	\$0	\$3,670	\$0	\$0	\$0	\$0	\$0	\$0
184	RT	T-129	PG&E	Fresno	15-Apr-11	10	No	DEC	21	0:10	20:24	-216.17	\$0	\$0	\$6,513	\$377	(\$9,921)	\$0	(\$4,502)	\$0	\$0
185	RT	T-129	PG&E	Fresno	15-Apr-11	4	No	INC	4	20:25	23:59	-0.86	\$0	\$0	\$36	\$0	\$0	\$0	\$0	\$0	\$0
186	RT	T-129	PG&E	Fresno	16-Apr-11	5	No	DEC	5	4:30	8:54	-22.03	\$0	\$0	\$315	\$0	\$0	\$0	\$0	\$0	\$0
187	RT	T-129	PG&E	Fresno	16-Apr-11	5	No	INC	13	8:55	20:59	-0.42	\$0	\$0	\$19	\$0	\$0	\$0	\$0	\$0	\$0
188	RT	T-129	PG&E	Fresno	17-Apr-11	5	No	INC	24	0:00	23:59	-0.05	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0	\$0
189	RT	T-129	PG&E	Fresno	18-Apr-11	2- 20	No	DEC	24	0:00	23:59	-212.78	\$0	\$0	\$5,897	\$0	\$0	\$0	\$0	\$0	\$0

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Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
190	RT	T-129	PG&E	Fresno	19-Apr-11	2- 7	No	DEC	8	0:00	7:14	-48.67	\$0	\$0	\$691	(\$767)	\$0	(\$99)	\$0	\$0	\$0
191	RT	T-129	PG&E	Fresno	19-Apr-11	2- 6	No	INC	17	7:15	23:59	-0.17	\$0	\$0	\$6	\$0	\$0	\$0	\$0	\$0	\$0
192	RT	T-129	PG&E	Fresno	20-Apr-11	3	No	DEC	12	0:10	11:19	-33.44	\$0	\$0	\$1,135	\$0	\$0	\$0	\$0	\$0	\$0
193	RT	T-129	PG&E	Fresno	20-Apr-11	3- 5	No	INC	13	11:20	23:59	-0.03	\$0	\$0	\$1	\$24	(\$557)	\$0	\$0	(\$432)	\$0
194	RT	T-129	PG&E	Fresno	21-Apr-11	1- 5	No	DEC	13	0:25	12:04	-25.97	\$0	\$0	\$759	\$25	\$95	\$0	(\$888)	\$0	\$0
195	RT	T-129	PG&E	Fresno	21-Apr-11	1	No	INC	12	12:05	23:59	-0.22	\$0	\$0	\$7	\$0	\$0	\$0	\$0	\$0	\$0
196	RT	T-129	PG&E	Fresno	25-Apr-11	5- 10	No	DEC	24	0:25	23:04	-227.50	\$0	\$0	\$5,876	\$0	\$0	\$0	\$0	\$0	\$0
197	RT	T-129	PG&E	Fresno	26-Apr-11	5	No	DEC	24	0:00	23:59	-119.77	\$0	\$0	\$2,171	\$0	\$0	\$0	\$0	\$0	\$0
198	RT	T-129	PG&E	Fresno	27-Apr-11	8	No	INC	13	8:00	20:59	100.22	\$0	\$0	(\$1,269)	\$0	\$0	\$0	\$0	\$0	\$0
199	RT	T-129	PG&E	Fresno	28-Apr-11	5	No	DEC	10	6:30	15:44	-40.00	\$0	\$0	(\$80)	\$513	(\$9,775)	\$0	\$0	\$0	\$0
200	RT	T-129	PG&E	Fresno	28-Apr-11	0	No	INC	6	15:45	20:59	-0.42	\$0	\$0	(\$1)	\$2,322	(\$71,625)	\$0	\$0	\$0	\$0
201	RT	T-132	SDG&E	San Diego	1-Apr-11	246- 341	Yes	INC	2	16:40	17:29	244.19	\$0	\$0	(\$85,154)	\$463	(\$10,558)	\$0	\$0	\$0	\$0
202	RT	T-132	SDG&E	San Diego	12-Apr-11	45- 125	No	INC	3	19:35	21:19	41.18	\$3,328	\$425	(\$1,252)	\$0	\$0	\$0	\$0	\$0	\$0
203	RT	T-135	N/A	N/A	26-Apr-11	300	Yes	INC	10	11:40	20:29	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
204	RT	T-135	SCE	LA Basin	26-Apr-11	300	No	INC	1	11:40	11:59	25.64	\$1,758	\$0	(\$257)	\$0	\$0	\$0	\$0	\$0	\$0
205	RT	T-135	SCE	LA Basin	29-Apr-11	150	No	INC	5	10:31	14:59	680.72	\$0	\$0	(\$17,481)	\$0	\$0	\$0	\$0	\$0	\$0
206	RT	T-138	N/A	N/A	3-Apr-11	29	No	INC	2	22:05	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
207	RT	T-138	PG&E	Humboldt	2-Apr-11	43- 72	No	INC	3	20:37	22:59	39.59	\$6,027	\$0	(\$335)	\$0	\$0	\$0	\$0	\$0	\$0
208	RT	T-138	PG&E	Humboldt	3-Apr-11	29	No	INC	3	21:40	23:59	28.87	\$3,014	\$0	(\$950)	\$4	(\$77)	\$0	\$0	(\$55)	\$0
209	RT	T-165	PG&E	Sierra	23-Apr-11	20	Yes	INC	9	1:25	9:24	166.84	\$11,484	\$259	(\$1,190)	\$0	\$0	\$0	\$0	\$0	\$0
210	RT	T-165	PG&E	Sierra	24-Apr-11	20	Yes	INC	14	10:15	23:59	280.01	\$18,792	\$268	\$115	\$0	\$0	\$0	\$0	\$0	\$0
211	RT	T-165	PG&E	Sierra	25-Apr-11	20- 25	Yes	INC	2	4:53	5:49	16.05	\$1,044	\$60	(\$59)	\$1	(\$20)	\$0	\$0	(\$14)	\$0
212	RT	Transmission Mitigation	PG&E	Sierra	27-Apr-11	30- 46	Yes	INC	12	12:55	23:59	512.16	\$18,531	\$282	(\$7,369)	\$272	(\$3,666)	\$0	\$0	(\$8,556)	\$0
213	RT	Transmission Mitigation	PG&E	Sierra	28-Apr-11	20- 46	Yes	INC	24	0:00	23:59	641.99	\$34,452	\$260	(\$8,203)	\$156	(\$2,500)	\$0	\$0	(\$4,364)	\$0
214	RT	Transmission Mitigation	PG&E	Sierra	29-Apr-11	20- 40	Yes	INC	23	0:00	22:44	736.54	\$9,396	\$0	(\$14,067)	\$230	(\$3,154)	\$0	\$0	(\$7,251)	\$0
215	RT	Transmission Mitigation	PG&E	Sierra	30-Apr-11	20- 30	Yes	INC	15	8:00	22:49	457.26	\$2,349	\$259	(\$17,026)	\$65	(\$2,057)	\$0	\$0	(\$964)	\$0
216	RT	Transmission Mitigation	PG&E	Stockton	11-Apr-11	21- 25	No	DEC	3	21:15	23:19	-41.03	\$0	\$0	\$462	(\$33)	\$0	\$377	\$0	(\$902)	\$0
217	RT	Transmission Mitigation	PG&E	Stockton	29-Apr-11	7- 27	No	DEC	4	17:15	20:59	-71.15	\$0	\$0	\$1,688	(\$68)	\$0	\$1,688	\$0	(\$2,286)	\$0
218	RT	Transmission Mitigation	PG&E	Stockton	30-Apr-11	4- 5	No	DEC	5	7:55	11:09	-15.55	\$0	\$0	(\$3)	(\$15)	\$0	(\$4)	\$0	(\$363)	\$0
219	RT	Transmission Outage PG&E	N/A	N/A	12-Apr-11	1- 4	Yes	DEC	12	8:15	19:24	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
220	RT	Transmission Outage PG&E	N/A	N/A	12-Apr-11	13- 93	Yes	INC	13	7:55	19:24	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
221	RT	Transmission Outage PG&E	N/A	N/A	25-Apr-11	1- 4	Yes	DEC	17	7:30	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
222	RT	Transmission Outage PG&E	N/A	N/A	25-Apr-11	1- 45	Yes	INC	17	7:30	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
223	RT	Transmission Outage PG&E	PG&E	Bay Area	8-Apr-11	500	No	INC	3	10:45	12:49	65.31	\$0	\$0	(\$2,074)	\$119	(\$3,669)	\$0	\$0	(\$611)	\$0

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Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
224	RT	Transmission Outage PG&E	PG&E	Bay Area	13-Apr-11	140- 170	No	INC	6	10:49	15:29	870.54	\$0	\$0	(\$8,611)	\$840	(\$7,619)	\$0	\$0	(\$21,511)	\$0
225	RT	Transmission Outage PG&E	PG&E	Bay Area	14-Apr-11	380- 440	No	INC	10	11:47	20:59	3,811.42	\$133,450	\$0	(\$76,893)	\$348	(\$4,306)	\$0	\$0	(\$5,106)	\$0
226	RT	Transmission Outage PG&E	PG&E	Fresno	3-Apr-11	83- 403	No	DEC	8	8:02	15:14	3,048.45	\$0	\$0	\$55,817	(\$505)	\$0	\$11,586	\$0	(\$11,586)	\$0
227	RT	Transmission Outage PG&E	PG&E	Humboldt	12-Apr-11	48- 96	No	INC	13	7:40	19:09	189.57	\$7,659	\$0	(\$4,506)	\$88	(\$1,168)	\$0	\$0	(\$1,905)	\$0
228	RT	Transmission Outage PG&E	PG&E	Humboldt	20-Apr-11	29	No	INC	4	19:55	22:59	-7.18	\$0	\$0	\$339	(\$3)	\$0	\$270	\$0	(\$115)	\$0
229	RT	Transmission Outage PG&E	PG&E	Humboldt	25-Apr-11	15- 64	No	INC	17	7:15	23:59	98.95	\$10,484	\$0	(\$14,264)	\$32	(\$933)	\$0	\$0	(\$332)	\$0
230	RT	Transmission Outage PG&E	PG&E	Humboldt	26-Apr-11	32- 64	No	INC	15	0:00	14:19	344.88	\$14,819	\$0	(\$6,823)	\$116	(\$1,090)	\$0	\$0	(\$1,882)	\$0
231	RT	Transmission Outage PG&E	PG&E	N/A	28-Apr-11	7	No	DEC	1	9:10	9:34	-1.82	\$0	\$0	(\$55)	(\$3)	\$0	(\$78)	\$0	\$0	\$0
232	RT	Transmission Outage PG&E	PG&E	Sierra	1-Apr-11	10	Yes	DEC	4	15:32	18:29	-24.79	\$0	\$0	\$1,557	(\$28)	\$0	\$1,761	\$0	(\$1,725)	\$0
233	RT	Transmission Outage PG&E	PG&E	Sierra	1-Apr-11	21	Yes	INC	2	20:40	21:59	18.22	\$0	\$0	(\$553)	\$0	\$0	\$0	\$0	\$0	\$0
234	RT	Transmission Outage PG&E	PG&E	Sierra	8-Apr-11	2- 48	Yes	DEC	9	13:21	21:59	-300.23	\$0	\$0	\$5,916	(\$133)	\$0	\$2,515	\$0	(\$2,501)	\$0
235	RT	Transmission Outage PG&E	PG&E	Sierra	8-Apr-11	13	Yes	INC	9	13:21	21:59	-1.64	\$0	\$0	\$68	\$0	\$0	\$0	\$0	\$0	\$0
236	RT	Transmission Outage PG&E	PG&E	Sierra	20-Apr-11	7	Yes	DEC	9	9:30	17:30	-58.77	\$0	\$0	\$1,469	(\$59)	\$0	\$1,467	\$0	(\$1,250)	\$0
237	RT	Transmission Outage PG&E	PG&E	Stockton	1-Apr-11	5- 40	No	DEC	24	0:00	23:59	-756.25	\$0	\$0	\$18,707	(\$543)	\$0	\$18,753	\$0	(\$33,281)	\$0
238	RT	Transmission Outage PG&E	PG&E	Stockton	1-Apr-11	25	No	INC	24	0:10	23:59	-1.41	\$0	\$0	(\$232)	(\$1)	\$0	\$14	\$0	(\$15)	\$0
239	RT	Transmission Outage PG&E	PG&E	Stockton	2-Apr-11	5- 35	No	DEC	24	0:00	23:59	-341.62	\$0	\$0	\$1,362	(\$182)	\$0	\$2,829	\$0	(\$7,216)	\$0
240	RT	Transmission Outage PG&E	PG&E	Stockton	2-Apr-11	67	No	INC	24	0:00	23:59	40.59	\$0	\$0	(\$5,418)	\$0	\$0	\$0	\$0	\$0	\$0
241	RT	Transmission Outage PG&E	PG&E	Stockton	3-Apr-11	10- 35	No	DEC	24	0:00	23:59	-49.00	\$0	\$0	\$936	(\$32)	\$0	\$490	\$0	(\$973)	\$0
242	RT	Transmission Outage PG&E	PG&E	Stockton	3-Apr-11	5- 50	No	INC	12	0:00	11:59	2.12	\$0	\$0	(\$1,726)	\$0	\$0	\$0	\$0	\$0	\$0
243	RT	Transmission Outage PG&E	PG&E	Stockton	4-Apr-11	1- 30	No	DEC	24	0:00	23:59	-466.56	\$0	\$0	\$17,276	(\$343)	\$0	\$14,528	\$0	(\$21,315)	\$0
244	RT	Transmission Outage PG&E	PG&E	Stockton	4-Apr-11	1- 50	No	INC	24	0:00	23:59	-55.42	\$0	\$0	\$2,791	\$0	\$0	\$0	\$0	\$0	\$0
245	RT	Transmission Outage PG&E	PG&E	Stockton	5-Apr-11	1- 20	No	DEC	24	0:00	23:59	-377.58	\$0	\$0	\$4,768	(\$243)	\$0	\$3,938	\$0	(\$8,931)	\$0
246	RT	Transmission Outage PG&E	PG&E	Stockton	5-Apr-11	4- 80	No	INC	24	0:00	23:59	33.82	\$0	\$0	\$5,556	\$0	\$0	\$0	\$0	\$0	\$0
247	RT	Transmission Outage PG&E	PG&E	Stockton	6-Apr-11	1- 33	No	DEC	24	0:15	23:59	-368.73	\$0	\$0	\$12,139	(\$291)	\$0	\$11,101	\$0	(\$14,154)	\$0
248	RT	Transmission Outage PG&E	PG&E	Stockton	6-Apr-11	1- 50	No	INC	23	0:50	22:19	78.70	\$0	\$0	(\$830)	\$0	\$0	\$0	\$0	\$0	\$0
249	RT	Transmission Outage PG&E	PG&E	Stockton	7-Apr-11	2- 36	No	DEC	24	0:10	23:59	-463.38	\$0	\$0	\$19,216	(\$423)	\$0	\$17,260	\$0	(\$25,200)	\$0
250	RT	Transmission Outage PG&E	PG&E	Stockton	7-Apr-11	35	No	INC	24	0:10	23:59	128.81	\$0	\$0	(\$4,921)	\$0	\$0	\$0	\$0	\$0	\$0
251	RT	Transmission Outage PG&E	PG&E	Stockton	8-Apr-11	4- 29	No	DEC	24	0:00	23:59	-487.00	\$0	\$0	\$21,616	(\$466)	\$0	\$21,515	\$0	(\$33,087)	\$0
252	RT	Transmission Outage PG&E	PG&E	Stockton	8-Apr-11	45	No	INC	24	0:00	23:59	39.88	\$0	\$0	(\$3,155)	\$0	\$0	\$0	\$0	\$0	\$0
253	RT	Transmission Outage PG&E	PG&E	Stockton	9-Apr-11	3- 36	No	DEC	24	0:00	23:59	-429.42	\$0	\$0	\$4,396	(\$253)	\$0	\$3,638	\$0	(\$9,001)	\$0
254	RT	Transmission Outage PG&E	PG&E	Stockton	9-Apr-11	23	No	INC	24	0:05	23:34	6.40	\$0	\$0	\$16	\$0	\$0	\$0	\$0	\$0	\$0

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Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
255	RT	Transmission Outage PG&E	PG&E	Stockton	10-Apr-11	11- 36	No	DEC	24	0:00	23:59	-677.79	\$0	\$0	\$19,511	(\$634)	\$0	\$20,361	\$0	(\$36,897)	\$0
256	RT	Transmission Outage PG&E	PG&E	Stockton	10-Apr-11	25	No	INC	24	0:00	23:59	27.84	\$0	\$0	\$576	\$0	\$0	\$0	\$0	\$0	\$0
257	RT	Transmission Outage PG&E	PG&E	Stockton	11-Apr-11	0- 36	No	DEC	24	0:00	23:59	-667.44	\$0	\$0	\$14,614	(\$527)	\$0	\$15,556	\$0	(\$28,417)	\$0
258	RT	Transmission Outage PG&E	PG&E	Stockton	11-Apr-11	35	No	INC	22	0:00	21:59	112.23	\$0	\$0	(\$4,277)	(\$14)	\$0	\$212	\$0	(\$212)	\$0
259	RT	Transmission Outage PG&E	PG&E	Stockton	12-Apr-11	24- 41	No	DEC	24	0:00	23:59	1,053.89	\$0	\$0	(\$47,852)	(\$574)	\$0	\$9,341	\$0	(\$27,021)	\$0
260	RT	Transmission Outage PG&E	PG&E	Stockton	12-Apr-11	20	No	INC	24	0:00	23:59	-9.13	\$0	\$0	\$518	\$0	\$0	\$0	\$0	\$0	\$0
261	RT	Transmission Outage PG&E	PG&E	Stockton	13-Apr-11	10- 36	No	DEC	24	0:10	23:59	-338.71	\$0	\$0	\$7,757	(\$319)	\$0	\$7,422	\$0	(\$16,123)	\$0
262	RT	Transmission Outage PG&E	PG&E	Stockton	13-Apr-11	50	No	INC	24	0:10	23:59	156.14	\$0	\$0	(\$3,958)	\$0	\$0	\$0	\$0	\$0	\$0
263	RT	Transmission Outage PG&E	PG&E	Stockton	14-Apr-11	1- 32	No	DEC	24	0:00	23:59	-337.58	\$0	\$0	(\$8,773)	(\$217)	\$0	\$3,645	\$0	(\$9,628)	\$0
264	RT	Transmission Outage PG&E	PG&E	Stockton	14-Apr-11	70	No	INC	24	0:00	23:59	154.94	\$0	\$0	(\$4,107)	\$0	\$0	\$0	\$0	\$0	\$0
265	RT	Transmission Outage PG&E	PG&E	Stockton	15-Apr-11	10- 41	No	DEC	24	0:00	23:59	-643.78	\$0	\$0	\$18,394	(\$600)	\$0	\$17,071	\$0	(\$32,763)	\$0
266	RT	Transmission Outage PG&E	PG&E	Stockton	15-Apr-11	20	No	INC	24	0:00	23:39	12.45	\$0	\$0	(\$1,049)	\$0	\$0	\$0	\$0	\$0	\$0
267	RT	Transmission Outage PG&E	PG&E	Stockton	16-Apr-11	11- 36	No	DEC	24	0:00	23:59	-544.20	\$0	\$0	\$12,989	(\$537)	\$0	\$12,786	\$0	(\$26,958)	\$0
268	RT	Transmission Outage PG&E	PG&E	Stockton	16-Apr-11	25	No	INC	24	0:00	23:59	100.46	\$0	\$0	(\$1,762)	\$0	\$0	\$0	\$0	\$0	\$0
269	RT	Transmission Outage PG&E	PG&E	Stockton	17-Apr-11	12- 36	No	DEC	24	0:00	23:59	-678.42	\$0	\$0	\$8,712	(\$641)	\$0	\$8,333	\$0	(\$24,519)	\$0
270	RT	Transmission Outage PG&E	PG&E	Stockton	17-Apr-11	30	No	INC	24	0:00	23:59	136.50	\$0	\$0	(\$3,859)	\$0	\$0	\$0	\$0	\$0	\$0
271	RT	Transmission Outage PG&E	PG&E	Stockton	18-Apr-11	20- 46	No	DEC	24	0:00	23:59	-794.85	\$0	\$0	\$32,861	(\$728)	\$0	\$30,905	\$0	(\$48,950)	\$0
272	RT	Transmission Outage PG&E	PG&E	Stockton	18-Apr-11	25	No	INC	24	0:00	23:14	28.31	\$0	\$0	(\$4,031)	\$0	\$0	\$0	\$0	\$0	\$0
273	RT	Transmission Outage PG&E	PG&E	Stockton	19-Apr-11	26- 46	No	DEC	24	0:00	23:59	-944.61	\$0	\$0	\$26,565	(\$897)	\$0	\$25,613	\$0	(\$48,783)	\$0
274	RT	Transmission Outage PG&E	PG&E	Stockton	19-Apr-11	14- 35	No	INC	14	9:40	22:44	151.55	\$0	\$0	(\$4,701)	\$0	\$0	\$0	\$0	\$0	\$0
275	RT	Transmission Outage PG&E	PG&E	Stockton	20-Apr-11	19- 46	No	DEC	24	0:00	23:59	-995.52	\$0	\$0	\$32,814	(\$841)	\$0	\$28,222	\$0	(\$48,904)	\$0
276	RT	Transmission Outage PG&E	PG&E	Stockton	20-Apr-11	30	No	INC	24	0:00	23:59	160.86	\$0	\$0	(\$5,584)	\$0	\$0	\$0	\$0	\$0	\$0
277	RT	Transmission Outage PG&E	PG&E	Stockton	21-Apr-11	24- 47	No	DEC	24	0:00	23:59	-957.71	\$0	\$0	\$20,518	(\$869)	\$0	\$18,874	\$0	(\$38,472)	\$0
278	RT	Transmission Outage PG&E	PG&E	Stockton	21-Apr-11	25	No	INC	23	1:20	23:59	155.18	\$0	\$0	(\$4,566)	(\$0)	\$0	(\$0)	\$0	\$0	\$0
279	RT	Transmission Outage PG&E	PG&E	Stockton	22-Apr-11	16- 42	No	DEC	24	0:20	23:59	-781.60	\$0	\$0	\$3,463	(\$640)	\$0	\$3,495	\$0	(\$9,089)	\$0
280	RT	Transmission Outage PG&E	PG&E	Stockton	22-Apr-11	20	No	INC	24	0:00	23:59	51.88	\$0	\$0	(\$997)	\$0	\$0	\$0	\$0	\$0	\$0
281	RT	Transmission Outage PG&E	PG&E	Stockton	23-Apr-11	3- 22	No	DEC	24	0:00	23:59	-394.99	\$0	\$0	\$6,363	(\$386)	\$0	\$6,048	\$0	(\$15,585)	\$0
282	RT	Transmission Outage PG&E	PG&E	Stockton	23-Apr-11	20	No	INC	24	0:00	23:59	-38.21	\$0	\$0	\$568	\$0	\$0	\$0	\$0	\$0	\$0
283	RT	Transmission Outage PG&E	PG&E	Stockton	24-Apr-11	5- 32	No	DEC	24	0:10	23:59	-476.40	\$0	\$0	(\$929)	(\$411)	\$0	\$565	\$0	(\$11,270)	\$0

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Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
284	RT	Transmission Outage PG&E	PG&E	Stockton	24-Apr-11	55	No	INC	24	0:10	23:59	42.19	\$0	\$0	\$5	\$0	\$0	\$0	\$0	\$0	\$0
285	RT	Transmission Outage PG&E	PG&E	Stockton	25-Apr-11	15- 42	No	DEC	24	0:00	23:59	-670.20	\$0	\$0	\$16,810	(\$662)	\$0	\$16,662	\$0	(\$31,960)	\$0
286	RT	Transmission Outage PG&E	PG&E	Stockton	25-Apr-11	40	No	INC	24	0:00	23:59	81.45	\$0	\$0	(\$3,975)	\$0	\$0	\$0	\$0	\$0	\$0
287	RT	Transmission Outage PG&E	PG&E	Stockton	26-Apr-11	10- 42	No	DEC	24	0:00	23:59	-678.21	\$0	\$0	\$10,946	(\$602)	\$0	\$11,551	\$0	(\$25,964)	\$0
288	RT	Transmission Outage PG&E	PG&E	Stockton	26-Apr-11	40	No	INC	24	0:00	23:59	103.10	\$0	\$0	(\$2,158)	\$0	\$0	\$0	\$0	\$0	\$0
289	RT	Transmission Outage PG&E	PG&E	Stockton	27-Apr-11	5- 42	No	DEC	24	0:15	23:59	-689.81	\$0	\$0	\$8,151	(\$558)	\$0	\$7,619	\$0	(\$21,585)	\$0
290	RT	Transmission Outage PG&E	PG&E	Stockton	27-Apr-11	35	No	INC	24	0:15	23:59	97.84	\$0	\$0	(\$1,097)	\$0	\$0	\$0	\$0	\$0	\$0
291	RT	Transmission Outage PG&E	PG&E	Stockton	28-Apr-11	5- 33	No	DEC	24	0:00	23:59	-671.84	\$0	\$0	\$2,450	(\$481)	\$0	\$5,255	\$0	(\$16,962)	\$0
292	RT	Transmission Outage PG&E	PG&E	Stockton	28-Apr-11	5- 40	No	INC	24	0:00	23:59	132.91	\$0	\$0	(\$691)	\$0	\$0	\$0	\$0	\$0	\$0
293	RT	Transmission Outage PG&E	PG&E	Stockton	29-Apr-11	9- 27	No	DEC	17	0:00	16:19	-354.05	\$0	\$0	\$4,564	(\$262)	\$0	\$4,617	\$0	(\$9,945)	\$0
294	RT	Transmission Outage PG&E	PG&E	Stockton	29-Apr-11	40	No	INC	17	0:00	16:19	26.98	\$0	\$0	(\$612)	\$0	\$0	\$0	\$0	\$0	\$0
295	RT	Transmission Outage PG&E	PG&E	Stockton	30-Apr-11	5- 40	No	DEC	13	11:10	23:59	-270.24	\$0	\$0	\$8,228	(\$242)	\$0	\$7,648	\$0	(\$13,146)	\$0
296	RT	Transmission Outage SCE	N/A	N/A	25-Apr-11	185	Yes	INC	11	12:00	22:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
297	RT	Transmission Outage SCE	N/A	N/A	26-Apr-11	185	Yes	INC	7	16:00	22:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
298	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	1-Apr-11	156- 237	No	INC	5	14:45	18:59	108.60	\$0	\$0	(\$12,417)	\$0	\$0	\$0	\$0	\$0	\$0
299	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	2-Apr-11	29- 79	No	DEC	3	12:05	14:14	-185.28	\$0	\$0	\$9,948	(\$161)	\$0	\$9,614	\$0	(\$8,592)	\$0
300	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	2-Apr-11	121- 171	No	INC	2	11:15	12:04	-10.20	\$0	\$0	\$138	\$0	\$0	\$0	\$0	\$0	\$0
301	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	3-Apr-11	121- 188	No	INC	3	18:23	20:59	-40.33	\$0	\$0	(\$7)	\$0	\$0	\$0	\$0	\$0	\$0
302	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	6-Apr-11	218	No	DEC	4	10:00	13:59	-281.95	\$0	\$0	\$1,805	(\$88)	\$0	\$937	\$0	(\$678)	\$0
303	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	7-Apr-11	218	No	DEC	4	10:45	13:59	-710.76	\$0	\$0	\$18,354	(\$698)	\$0	\$17,855	\$0	(\$2,366)	\$0
304	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	12-Apr-11	193	No	DEC	3	9:26	11:06	-298.18	\$0	\$0	\$21,391	(\$310)	\$0	\$25,014	\$0	(\$1,670)	\$0
305	RT	Transmission Outage SCE	SCE	N/A	14-Apr-11	22- 32	Yes	DEC	3	12:25	14:09	-127.39	\$0	\$0	\$2,775	(\$7)	\$0	\$199	\$0	(\$11)	\$0
306	RT	Transmission Outage SCE	SCE	N/A	14-Apr-11	123	Yes	INC	3	12:25	14:09	-5.44	\$0	\$0	\$137	\$0	\$0	\$0	\$0	\$0	\$0
307	RT	Transmission Outage SDG&E	N/A	N/A	12-Apr-11	22	Yes	INC	3	13:15	15:49	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
308	RT	Transmission Outage SDG&E	N/A	N/A	18-Apr-11	45	Yes	INC	17	7:40	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
309	RT	Transmission Outage SDG&E	N/A	N/A	19-Apr-11	45	Yes	INC	19	0:00	18:54	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
310	RT	Transmission Outage SDG&E	N/A	N/A	23-Apr-11	22	Yes	INC	14	0:00	13:49	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
311	RT	Transmission Outage SDG&E	SDG&E	San Diego	4-Apr-11	18	Yes	INC	7	11:17	17:04	114.01	\$11,709	\$327	(\$10,501)	\$0	\$0	\$0	\$0	\$0	\$0
312	RT	Transmission Outage SDG&E	SDG&E	San Diego	5-Apr-11	18	Yes	INC	2	10:50	11:49	18.00	\$1,419	\$198	(\$442)	\$0	\$0	\$0	\$0	\$0	\$0
313	RT	Transmission Outage SDG&E	SDG&E	San Diego	6-Apr-11	13- 85	No	DEC	12	11:30	22:04	-281.25	\$0	\$0	(\$2,736)	\$0	\$0	\$0	\$0	\$0	\$0

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWh	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
314	RT	Transmission Outage SDG&E	SDG&E	San Diego	6-Apr-11	1- 362	Yes	INC	16	7:15	22:04	980.95	\$59,266	\$11,907	(\$150,697)	\$115	\$287	\$0	\$0	(\$3,242)	\$0
315	RT	Transmission Outage SDG&E	SDG&E	San Diego	7-Apr-11	10- 312	No	DEC	21	0:00	20:19	-332.28	\$0	\$0	\$10,686	(\$69)	\$0	\$3,951	\$0	(\$1,859)	\$0
316	RT	Transmission Outage SDG&E	SDG&E	San Diego	7-Apr-11	5- 139	No	INC	20	0:00	19:04	760.66	\$0	\$0	(\$59,528)	\$251	(\$2,876)	\$0	\$0	(\$6,448)	\$0
317	RT	Transmission Outage SDG&E	SDG&E	San Diego	12-Apr-11	17- 275	Yes	INC	6	11:06	16:59	476.03	\$17,990	\$1,208	(\$31,408)	\$25	(\$665)	\$0	\$0	(\$631)	\$0
318	RT	Unit Testing	N/A	N/A	13-Apr-11	0	No	INC	1	13:00	13:31	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
319	RT	Unit Testing	PG&E	Bay Area	12-Apr-11	60- 94	No	INC	2	9:59	10:23	19.54	\$0	\$0	(\$767)	\$0	\$0	\$0	\$0	\$0	\$0
320	RT	Unit Testing	PG&E	Fresno	29-Apr-11	52	Yes	INC	2	8:30	9:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
321	RT	Unit Testing	PG&E	N/A	15-Apr-11	150- 250	Yes	INC	5	10:10	14:29	846.88	\$0	\$0	(\$35,544)	\$188	(\$7,873)	\$0	\$0	\$0	\$0
322	RT	Unit Testing	SCE	LA Basin	21-Apr-11	130- 250	Yes	INC	17	4:05	20:14	2,566.65	\$146,302	\$88,033	(\$57,311)	\$222	(\$4,926)	\$0	\$0	\$0	\$0
323	RT	Unit Testing	SCE	LA Basin	22-Apr-11	250	No	INC	17	1:55	17:54	785.70	\$0	\$0	(\$6,990)	\$694	(\$6,397)	\$0	\$0	\$0	\$0

Appendix A: Explanation by Example

All examples listed below are based on fictitious data. Many simplified assumptions are made to explain settlement charge codes, and not all assumptions are explicitly stated in these examples.

For instance settlement charge codes are calculated based on metered quantities, whereas, in these examples the dispatch quantities are assumed to be equal to metered quantities. These assumptions have been made to simplify the understanding of settlements calculations.

Example 1: Exceptional Dispatch Instructions Prior to DAM

In this fictitious example the ISO issued an exceptional dispatch instruction for resource A to be committed at its Pmin of 50 MW from hours ending 5 through 10 for a generation procedure G-219. Similarly, the ISO issued additional instructions to resources B and C for the same reason as shown in Table 2. Generally exceptional dispatches prior to the day-ahead market are commitments to minimum load. In this case the dispatch levels are all at minimum load. Table 2 below also shows the commitment costs and the total volume (MWh) of exceptional dispatch instruction for each resource. The minimum load costs and start up costs, shown in Table 2 are the eligible minimum load and start up costs which are different from the bid-in minimum load and start up costs⁷. Only those quantities which are relevant to pre-day-ahead unit commitments are shown in this table.

Table 2: Instructions Prior to Day-Ahead Market

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin time	End Time	Dispatch level (MW)	Reason	Total Volume (MWh)	Min-Load Cost	Start- Up Cost	CC6620 (BCR)
01-Jul-09	DA	A	SCE	LA BASIN	05:00	10:00	50	G-219	300	\$5000	\$0	0
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	G-219	390	\$6000	\$500	\$4000
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	G-219.	300	\$400	\$1000	\$1000

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. Thus the MW column shows the

⁷ Please refer to the BPM configuration Guide: Bid Cost Recovery Settlements published on the ISO's website for details about eligible minimum load and start up costs.

minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead, however the exceptional dispatches are nearly always just commitments, as in this example. The Begin Time shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time shows hour ending 23, as this was the hour with last dispatch. It is also possible that there might be some hours between the begin time and the end time where there might not be exceptional dispatch instructions for the given reason, meaning that the range between the begin time and end time can include null hours with no dispatch. The total volume (MWh) is the sum of MWh quantity for each resource, which adds up to 990 MWh. Similarly, all cost information is sum of individual resource costs. It is possible that some resources bid-in zero start-up cost; as seen in this example, resource A bid in zero for its start up cost. Since the ISO does not explicitly pay a resource for bid-in minimum load costs and start-up costs; these costs are recovered through the charge code CC6620 (Bid Cost Recovery), this table shows the summary of CC6620 for the classification. In this case, it is the sum of CC6620 for all three resources which adds up to \$5000. This column shows the impact of exceptional dispatch on bid cost recovery for all pre-day-ahead exceptional dispatch commitments.

Table 3: FERC Summary of Instructions Prior to DAM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total Volume (MWh)	Min-Load Cost	Start-Up Cost	CC6620
1	DA	G-219	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00	990	\$11,400	\$1,500	\$5000

Example 2: Incremental Exceptional Dispatch Instructions in RTM

In this fictitious example the ISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 30 MW from hours ending 7 through 11 after completion of the day-ahead market for the transmission procedure T-138. This resource did not have a day-ahead award in those hours. The ISO issued another exceptional dispatch instruction to resource B, to be dispatched at 40 MW from hours ending 8 through 9 in real-time for the transmission procedure T-138. This resource had a day-ahead schedule of 20 MW from the day-ahead market, which implies that this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C is shown in Table 4. This table also shows volume (MWh) and various real-time charge codes associated with the exceptional dispatch instructions. The total MWh column for each resource shows the sum of all types of imbalance energy quantities for this resource between the begin time and end time which includes both the exceptional dispatch energy quantities and optimal energy quantities.

Resource A was committed at its Pmin so its total volume (MWh) is equal to its Pmin times the number of hours, which is calculated as 30 MW times 6 hours and is equal to 180 MWh. The resource Minimum load costs and the start up costs are its eligible commitment costs for that period. LMP at this resource is \$10/MWh for hours, so the charge code CC6470 is calculated at (180 MWh *\$10/MWh) and is equal to 1800. Since this resource is not dispatched above its Pmin, it has a zero volume (MWh) of exceptional dispatch. As a result, all charge codes associated with the exceptional dispatch increment or decrement quantities are zero.

Resource B is dispatched 20 MW above its day-ahead schedule, so its total volume (MWh) is calculated as 20 MW times 3 hours which is equal to 60 MWh. Since the resource was committed in the Day-Ahead Market there are no minimum load quantity and start up costs associated with this resource. The resource had a bid price of \$100/MWh and the LMP at that resource was \$10/MWh. All of 60 MWh is considered as exceptional dispatch incremental quantity which is shown in ED Volume (MWH INC/DEC) column. The charge code CC6470 INC is calculated as 60 MWh * resource LMP (\$10/MWh) which is equal to \$600. Since the only imbalance energy in this timeframe was the exceptional dispatch volume, the charge code CC6470 is equal to CC6470 INC. The charge code CC6488 is calculated as MWh quantity *(bid price – LMP), which is equal to \$5400 (60 MWh *(\$10/MWh-\$100/MWh)). Similarly, volumes and real-time charge codes are calculated for resource C.

Table 4: Incremental Exceptional Dispatch Instructions in RTM

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1-Jul-09	RT	A	PG&E	Humboldt	6:00	11:00	30	0	Yes	INC	30	T-138	180	1000	50	800	60	600	0	0	5400
1-Jul-09	RT	B	PG&E	Humboldt	7:00	9:00	40	20	No	INC	20	T-138	60	0	0	600	60	600	0	0	5400
1-Jul-09	RT	C	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	T-138	0	0	0	0	0	0	0	0	0
1-Jul-09	RT	C	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	T-138	50	0	0	300	20	300	0	0	200

This data is summarized as shown in Table 5 and is classified by reason, resource location, local reliability area, and trade date. The MW column in Table 5 is the range of MW; in this case the minimum instruction MW is 0 MW for resource C which occurs from hours ending 13 through 15. The maximum instruction occurs in hours ending 8 & 9, as during these two hours both resources A and B have an ED MW of 30MW and 20MW, respectively. This adds up to 50 MW. Thus the MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The Commitment column shows whether a resource was committed between the begin time and end time. This column shows a commitment if there was a single commitment in the entire interval of exceptional dispatch. The Begin Time shows the time of the first dispatch of the day. This is a time not a range. Similarly, the End Time shows a time and not a range. Exceptional dispatches occurred between these two times. Since there was a commitment between the begin time and end time then the Commitment column displays yes for the summary. Similarly, the INC/DEC column shows an INC as there was an incremental dispatch between the begin time and end time. As mentioned in the previous example it is possible that there might be some hours between the begin time and end time where there were no exceptional dispatch instructions for the given reason. Both volume and cost information columns are simply the summation for all the respective columns for resource A, B and C. For instance the Total volume (MWh) column is calculated as summation of 180,60,0 and 50 which are the individual volumes (MWh) for resources A, B and C for time periods shown in Table 4 on the previous page.

Table 5: FERC Summary of ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1	RT	T-138	PG&E	Humboldt	1-Jul-09	0-50	Yes	INC	15	6:00	20:00	290	1000	50	1700	140	1500	0	0	11000

Please note that it is possible that the ISO would dispatch a particular resource for instance at 10 MW from hours ending 1 through 4, and all or part of its energy might settle as optimal energy. This situation occurs when the LMP at the resource pricing node is above the resource bid price. This cost will only be captured in charge code 6470. It is also possible that ISO issues an exceptional dispatch for the resource to operate at a minimum of 10 MW which is its Pmin; however the market application might dispatch this resource above Pmin because the resource is economical. When this occurs, the charge code CC6470 and the total MWh quantity might overstate the actual exceptional dispatch MWh quantities. So, to best estimate the cost and volume (MWh) of exceptional dispatch it is appropriate to consider only the following columns: ED MWh (INC/DEC), CC6470 INC, CC6470 DEC, CC6482, CC6488.

Example 3: Decremental Exceptional Dispatch Instructions in RTM

This example highlights decremental exceptional dispatch instructions in the real-time market. In this fictitious example the ISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 20 MW from hours ending 15 through 20 after completion of the day-ahead market for the transmission procedure T-129. The ISO issued additional exceptional dispatch instructions for resources B and C; details of those instructions are shown in Table 6. This table also includes volume (MWh) and cost information.

Resource A is committed in real-time at its Pmin, its total volume (MWh) is 20MW *6 hours which is equal to 120 MWh. This resource has a zero MW of incremental dispatch in all hours, so all other relevant cost and volume columns result in zeros. Resource B has a decremental MW of 20 MW in 3 hours, which results in 60 MWh of decremental volume. Since this resource is not committed in real-time, both the minimum load cost and start up costs are zero. This resource had a bid price of \$50/MWh and LMP at the resource pricing node is \$10/ MWh. Based on this information CC6470-Dec is calculated as 60 MWh *\$10/MWh which is equal to \$600. Since this resource has its ED volume (MWh) equal to its Total volume, CC6470 is equal to CC6470- DEC. The CC6488 is calculated as (60 MWh * (\$50/MWh - \$10/MWh)) which is equal to \$2400. Resource C had a bid price of \$10/MWh and the LMP at its pricing node is \$50/MWh. Based on this information, volume and cost information is calculated for resource C.

Table 6: Decremental Exceptional Dispatch Instructions in RTM

Date	Market Type	Resource	Location	Local Reliability Area (LRA)	Begin time	End Time	Dispatch level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	T-129	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
1-Jul-09	RT	B	PG&E	Fresno	7:00	9:00	40	60	No	DEC	20	T-129	(60)	\$ -	\$ -	\$ 600	-60	\$ -	\$ 600	\$ -	\$2,400
1-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	T-129	(50)	\$ -	\$ -	\$ 500	-50	\$ -	\$ 500	\$ -	\$2,000

This data is summarized according to FERC convention as shown in Table 7. This summary classifies the data by reason, resource location, local reliability area, and trade date. Please note that incs and decs are broken out separately. The inc entry is self-explanatory and similar to the previous example. Regarding the dec entry the MW column is the range of MW; in this case the minimum dec instruction is 10 MW (actually -10MW as it is a dec) for resource C which occurs from hours ending 10 through 14. The maximum instruction occurs from hours ending 7 through 9, when resource B was issued a dec instruction of 20 MW. Thus the MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The commitment column shows whether a resource was committed between the begin time and end time. The volume and cost information are summarized by INC and DEC classification.

Table 7: FERC Summary of Decremental ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1	RT	T-129	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
2	RT	T-129	PG&E	Fresno	1-Jul-09	10-20	Yes	DEC	8	7:00	14:00	(110)	\$ -	\$ -	\$ (1,100)	\$ (110)	\$ -	\$ (1,100)	\$ -	\$ (4,400)

Appendix B: Price Impact Analysis

In the September 2 FERC order, FERC requested the ISO to perform price impact analysis on two distinct pricing nodes for the entire reporting period. The order also mentioned that the ISO must pick two pricing nodes for the entire reporting period that are most impacted by the exceptional dispatch instructions, and the two pricing nodes must belong to two different load aggregation points (LAPs).

Based on this requirement the ISO implemented a methodology to perform price impact analysis. First, the ISO identified a heavily impacted pricing node from each of the Pacific Gas & Electric (PG&E) LAP and Southern California Edison (SCE) LAP. These two pricing nodes had the maximum amount of exceptional dispatch volume (MWh) in their respective LAP. Point A is in PG&E LAP and point B is in SCE LAP. Please note these two points correspond to an actual pricing node in the ISO system. Only one resource was connected to each of these pricing nodes. For each resource the following input parameters were obtained to perform the analysis:

- Exceptional dispatch information: constrained level, constraint type, start of exceptional dispatch instruction and end of exceptional dispatch instruction.
- Real-Time LMPs for each of the five minute intervals for the month.
- Real-Time hourly bid set for each trade hour.
- Day-Ahead award for the resources.

The exceptional dispatch intervals have a begin time and an end time which can span as small as one minute to as large as 24 hours. Since the market application dispatches resources on five-minute basis, the exceptional dispatch instructions for each of these resources were broken down into five-minute intervals. If the begin time or end time for an instruction was in the middle of the five-minute interval, that instruction was rounded up to the next five-minute interval. These five-minute intervals were then coupled with resource five-minute LMPs calculated by the real-time market application. Also, the hourly bid information and the hourly day-ahead schedule were put together to create a dataset that had all the necessary information to perform price impact analysis.

An exceptional dispatch instruction can be generally classified as a start up instruction, an instruction to be dispatched at or above the constrained level, an instruction to be dispatched at or below a constrained level, an instruction to be dispatched at a fixed constrained level, or a shut down instruction. In general, the Locational Marginal Price (LMP) is set by a resource which can provide the next incremental MW of energy. Based on this definition of LMP and the classification of exceptional dispatches based on constraint type, a resource is allowed to set the LMP in only those intervals in which the resource is eligible to move either up or down from its constrained level. Hence, in those intervals in which the resource was constrained up at its Pmax or, in other words, the resource was exceptionally dispatched to its Pmax and forced to generate at that level, the resource was considered ineligible to set the price as it had no room to move up. Similarly, if the resource was constrained down at its Pmin, then the resource was not eligible to set the price. All those intervals in which the resource was ineligible to set the price were dropped from the dataset under consideration. From this dataset of only eligible intervals, for both pricing nodes A and B, LMPs were calculated for all intervals based on the resource dispatch level and the its bid set. The calculated LMP is equal to that bid price corresponding to the constrained MW segment.

Table 8 shows the price impact analysis information for node A, which is located in the PG&E area. This table shows all the five minute intervals in which the resource at PNode A was issued an exceptional dispatch instruction. Out of the 8,640 five-minute intervals in April, this resource was issued exceptional dispatch instructions in 1,459 five-minute intervals. It was eligible to set the LMP in 1,164 of the 1,459 intervals. Resource calculated LMP was larger than the market LMP in 1,049 of the 1,164 intervals. In the 1,049 intervals, the average increase in five minute LMP was \$33.82/MWh. This implies that if the ISO was able to model the constraint for this exceptional dispatch, then this resource and all other pricing nodes associated with that constraint would observe an average increase of \$33.82/MWh. Note that 1,049 five minute intervals are approximately 12.14 percent of the total 8,640 five minute intervals.

Table 9 shows the price impact analysis information for node B, which is located in the SCE area. This table shows all the five minute intervals in which the resource at PNode B was issued an exceptional dispatch instruction. Out of the 8,640 five minute intervals, this resource was issued an exceptional dispatch instruction in 524 five minute intervals. This resource was eligible to set the LMP in all 524 intervals. Out of the 524 intervals, resource calculated LMP was larger than the market LMP in 467 intervals. In the 467 intervals, the average increase in five minute LMP was \$351.09/MWh. This implies that if the ISO was able to model the constraint for this exceptional dispatch, then this resource and all other pricing nodes associated with that constraint would observe an average increase of \$351.09/MWh. The 467 five minute intervals account for approximately 5.41 percent of the total 8,640 five minute intervals.

Table 8: Price Impact Analysis Information for Pricing Node A in PG&E LAP

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	8-Apr-11	14	5	\$1.56	No	\$43.54	\$41.98
2	8-Apr-11	14	6	\$1.37	No	\$43.54	\$42.17
3	8-Apr-11	14	7	\$30.30	No	\$43.54	\$13.24
4	8-Apr-11	14	8	\$30.30	No	\$43.54	\$13.24
5	8-Apr-11	14	9	\$30.30	No	\$43.54	\$13.24
6	8-Apr-11	14	10	\$31.84	No	\$43.54	\$11.70
7	8-Apr-11	14	11	\$31.77	No	\$43.54	\$11.77
8	8-Apr-11	14	12	\$31.77	No	\$43.54	\$11.77
9	8-Apr-11	15	1	\$31.77	No	\$43.54	\$11.77
10	8-Apr-11	15	2	\$31.77	No	\$43.54	\$11.77
11	8-Apr-11	15	3	\$31.77	No	\$43.54	\$11.77
12	8-Apr-11	15	4	\$31.74	No	\$43.54	\$11.80
13	8-Apr-11	15	5	\$31.74	No	\$43.54	\$11.80
14	8-Apr-11	15	6	\$31.74	No	\$43.54	\$11.80
15	8-Apr-11	15	7	\$31.71	No	\$43.54	\$11.83
16	8-Apr-11	15	8	\$31.71	No	\$43.54	\$11.83
17	8-Apr-11	15	9	\$31.60	No	\$43.54	\$11.94
18	8-Apr-11	15	10	\$31.68	No	\$43.54	\$11.86
19	8-Apr-11	15	11	\$31.68	No	\$43.54	\$11.86
20	8-Apr-11	15	12	\$31.68	No	\$43.54	\$11.86
21	8-Apr-11	16	1	\$19.82	No	\$43.54	\$23.72
22	8-Apr-11	16	2	\$19.82	No	\$43.54	\$23.72
23	8-Apr-11	16	3	\$1.88	No	\$43.54	\$41.66
24	8-Apr-11	16	4	\$29.42	No	\$43.54	\$14.12
25	8-Apr-11	16	5	\$25.15	No	\$43.54	\$18.39
26	8-Apr-11	16	6	\$2.38	No	\$43.54	\$41.16
27	8-Apr-11	16	7	\$19.66	No	\$43.54	\$23.88
28	8-Apr-11	16	8	\$1.80	No	\$43.54	\$41.74
29	8-Apr-11	16	9	\$1.80	No	\$43.54	\$41.74
30	8-Apr-11	16	10	\$1.80	No	\$43.54	\$41.74
31	8-Apr-11	16	11	\$0.87	No	\$43.54	\$42.67
32	8-Apr-11	16	12	\$0.01	No	\$43.54	\$43.53
33	8-Apr-11	17	1	\$0.01	No	\$43.54	\$43.53
34	8-Apr-11	17	2	\$31.29	No	\$43.54	\$12.25
35	8-Apr-11	17	3	\$33.20	No	\$43.54	\$10.34
36	8-Apr-11	17	4	\$39.19	No	\$43.54	\$4.35
37	8-Apr-11	17	5	\$33.23	No	\$43.54	\$10.31
38	8-Apr-11	17	6	\$25.57	No	\$43.54	\$17.97
39	8-Apr-11	17	7	\$27.49	No	\$43.54	\$16.05
40	8-Apr-11	17	8	\$0.95	No	\$43.54	\$42.59
41	8-Apr-11	17	9	\$2.43	No	\$43.54	\$41.11
42	8-Apr-11	17	10	\$0.03	No	\$43.54	\$43.51
43	8-Apr-11	17	11	\$0.60	No	\$43.54	\$42.94

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
44	8-Apr-11	17	12	\$2.88	No	\$43.54	\$40.66
45	8-Apr-11	18	1	\$25.32	No	\$43.54	\$18.22
46	8-Apr-11	18	2	\$24.51	No	\$43.54	\$19.03
47	8-Apr-11	18	3	\$0.93	No	\$43.54	\$42.61
48	8-Apr-11	18	4	-\$0.01	No	\$43.54	\$43.55
49	8-Apr-11	18	5	\$0.00	No	\$43.54	\$43.54
50	8-Apr-11	18	6	\$0.01	No	\$43.54	\$43.53
51	8-Apr-11	18	7	\$0.01	No	\$43.54	\$43.53
52	8-Apr-11	18	8	\$0.01	No	\$43.54	\$43.53
53	8-Apr-11	18	9	\$0.01	No	\$43.54	\$43.53
54	8-Apr-11	18	10	-\$0.01	No	\$43.54	\$43.55
55	8-Apr-11	18	11	\$0.01	No	\$43.54	\$43.53
56	8-Apr-11	18	12	-\$0.46	No	\$43.54	\$44.00
57	8-Apr-11	19	1	\$39.89	No	\$43.54	\$3.65
58	8-Apr-11	19	2	\$27.68	No	\$43.54	\$15.86
59	8-Apr-11	19	3	\$25.32	No	\$43.54	\$18.22
60	8-Apr-11	19	4	\$19.89	No	\$43.54	\$23.65
61	8-Apr-11	19	5	\$27.20	No	\$43.54	\$16.34
62	8-Apr-11	19	6	\$29.47	No	\$43.54	\$14.07
63	8-Apr-11	19	7	\$29.39	No	\$43.54	\$14.15
64	8-Apr-11	19	8	\$29.39	No	\$43.54	\$14.15
65	8-Apr-11	19	9	\$29.76	No	\$43.54	\$13.78
66	8-Apr-11	19	10	\$29.80	No	\$43.54	\$13.74
67	8-Apr-11	19	11	\$29.80	No	\$43.54	\$13.74
68	8-Apr-11	19	12	\$29.80	No	\$43.54	\$13.74
69	8-Apr-11	20	1	\$1.32	No	\$43.54	\$42.22
70	8-Apr-11	20	2	\$1.32	No	\$43.54	\$42.22
71	8-Apr-11	20	3	\$1.32	No	\$43.54	\$42.22
72	8-Apr-11	20	4	\$17.56	No	\$43.54	\$25.98
73	8-Apr-11	20	5	\$19.25	No	\$43.54	\$24.29
74	8-Apr-11	20	6	\$29.76	No	\$43.54	\$13.78
75	8-Apr-11	20	7	\$30.38	No	\$43.54	\$13.16
76	8-Apr-11	20	8	\$38.93	No	\$43.54	\$4.61
77	8-Apr-11	20	9	\$47.18	No	\$43.54	-\$3.64
78	8-Apr-11	20	10	\$46.97	No	\$43.54	-\$3.43
79	8-Apr-11	20	11	\$46.46	No	\$43.54	-\$2.92
80	8-Apr-11	20	12	\$44.74	No	\$43.54	-\$1.20
81	8-Apr-11	21	1	\$41.71	No	\$43.54	\$1.83
82	8-Apr-11	21	2	\$38.38	No	\$43.54	\$5.16
83	8-Apr-11	21	3	\$30.34	No	\$43.54	\$13.20
84	8-Apr-11	21	4	\$41.26	No	\$43.54	\$2.28
85	8-Apr-11	21	5	\$42.67	No	\$43.54	\$0.87
86	8-Apr-11	21	6	\$41.50	No	\$43.54	\$2.04
87	8-Apr-11	21	7	\$233.73	No	\$43.54	-\$190.19
88	8-Apr-11	21	8	\$44.86	No	\$43.54	-\$1.32

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
89	8-Apr-11	21	9	\$42.53	No	\$43.54	\$1.01
90	8-Apr-11	21	10	\$30.43	No	\$43.54	\$13.11
91	8-Apr-11	21	11	\$30.43	No	\$43.54	\$13.11
92	8-Apr-11	21	12	\$2.20	No	\$43.54	\$41.34
93	8-Apr-11	22	1	\$48.26	No	\$43.54	-\$4.72
94	8-Apr-11	22	2	\$33.25	No	\$43.54	\$10.29
95	8-Apr-11	22	3	\$19.75	No	\$43.54	\$23.79
96	8-Apr-11	22	4	\$23.30	No	\$43.54	\$20.24
97	8-Apr-11	22	5	\$26.84	No	\$43.54	\$16.70
98	8-Apr-11	22	6	\$30.24	No	\$43.54	\$13.30
99	8-Apr-11	22	7	\$31.08	No	\$43.54	\$12.46
100	8-Apr-11	22	8	\$30.39	No	\$43.54	\$13.15
101	8-Apr-11	22	9	\$28.73	No	\$43.54	\$14.81
102	8-Apr-11	22	10	\$1.73	No	\$43.54	\$41.81
103	8-Apr-11	22	11	-\$0.01	No	\$43.54	\$43.55
104	8-Apr-11	22	12	-\$0.48	No	\$43.54	\$44.02
105	23-Apr-11	2	6	\$1.14	Yes	\$44.53	\$43.39
106	23-Apr-11	2	7	\$0.01	Yes	\$44.53	\$44.52
107	23-Apr-11	2	8	\$0.01	Yes	\$44.53	\$44.52
108	23-Apr-11	2	9	\$0.01	Yes	\$44.53	\$44.52
109	23-Apr-11	2	10	-\$0.01	Yes	\$44.53	\$44.54
110	23-Apr-11	2	11	\$0.01	Yes	\$44.53	\$44.52
111	23-Apr-11	2	12	\$0.01	Yes	\$44.53	\$44.52
112	23-Apr-11	3	1	\$0.98	Yes	\$44.53	\$43.55
113	23-Apr-11	3	2	\$0.98	Yes	\$44.53	\$43.55
114	23-Apr-11	3	3	\$0.98	Yes	\$44.53	\$43.55
115	23-Apr-11	3	4	\$0.97	Yes	\$44.53	\$43.56
116	23-Apr-11	3	5	\$0.97	Yes	\$44.53	\$43.56
117	23-Apr-11	3	6	\$0.62	Yes	\$44.53	\$43.91
118	23-Apr-11	3	7	-\$0.01	Yes	\$44.53	\$44.54
119	23-Apr-11	3	8	-\$0.01	Yes	\$44.53	\$44.54
120	23-Apr-11	3	9	-\$0.01	Yes	\$44.53	\$44.54
121	23-Apr-11	3	10	-\$0.01	Yes	\$44.53	\$44.54
122	23-Apr-11	3	11	-\$0.01	Yes	\$44.53	\$44.54
123	23-Apr-11	3	12	-\$0.02	Yes	\$44.53	\$44.55
124	23-Apr-11	4	1	-\$0.01	Yes	\$44.53	\$44.54
125	23-Apr-11	4	2	-\$0.01	Yes	\$44.53	\$44.54
126	23-Apr-11	4	3	-\$0.01	Yes	\$44.53	\$44.54
127	23-Apr-11	4	4	-\$0.01	Yes	\$44.53	\$44.54
128	23-Apr-11	4	5	-\$0.04	Yes	\$44.53	\$44.57
129	23-Apr-11	4	6	-\$0.04	Yes	\$44.53	\$44.57
130	23-Apr-11	4	7	-\$0.01	Yes	\$44.53	\$44.54
131	23-Apr-11	4	8	-\$0.02	Yes	\$44.53	\$44.55
132	23-Apr-11	4	9	-\$0.01	Yes	\$44.53	\$44.54
133	23-Apr-11	4	10	-\$0.01	Yes	\$44.53	\$44.54

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
134	23-Apr-11	4	11	-\$0.01	Yes	\$44.53	\$44.54
135	23-Apr-11	4	12	-\$0.01	Yes	\$44.53	\$44.54
136	23-Apr-11	5	1	\$0.97	Yes	\$44.53	\$43.56
137	23-Apr-11	5	2	\$0.97	Yes	\$44.53	\$43.56
138	23-Apr-11	5	3	-\$0.01	Yes	\$44.53	\$44.54
139	23-Apr-11	5	4	-\$0.01	Yes	\$44.53	\$44.54
140	23-Apr-11	5	5	-\$0.01	Yes	\$44.53	\$44.54
141	23-Apr-11	5	6	-\$0.01	Yes	\$44.53	\$44.54
142	23-Apr-11	5	7	-\$0.01	Yes	\$44.53	\$44.54
143	23-Apr-11	5	8	-\$0.01	Yes	\$44.53	\$44.54
144	23-Apr-11	5	9	-\$0.01	Yes	\$44.53	\$44.54
145	23-Apr-11	5	10	-\$0.01	Yes	\$44.53	\$44.54
146	23-Apr-11	5	11	-\$0.01	Yes	\$44.53	\$44.54
147	23-Apr-11	5	12	-\$0.01	Yes	\$44.53	\$44.54
148	23-Apr-11	6	1	-\$0.04	Yes	\$44.53	\$44.57
149	23-Apr-11	6	2	\$0.67	Yes	\$44.53	\$43.86
150	23-Apr-11	6	3	-\$0.01	Yes	\$44.53	\$44.54
151	23-Apr-11	6	4	-\$0.01	Yes	\$44.53	\$44.54
152	23-Apr-11	6	5	-\$0.01	Yes	\$44.53	\$44.54
153	23-Apr-11	6	6	\$0.67	Yes	\$44.53	\$43.86
154	23-Apr-11	6	7	\$1.15	Yes	\$44.53	\$43.38
155	23-Apr-11	6	8	\$1.15	Yes	\$44.53	\$43.38
156	23-Apr-11	6	9	\$1.15	Yes	\$44.53	\$43.38
157	23-Apr-11	6	10	\$14.76	Yes	\$44.53	\$29.77
158	23-Apr-11	6	11	\$1.15	Yes	\$44.53	\$43.38
159	23-Apr-11	6	12	-\$0.01	Yes	\$44.53	\$44.54
160	23-Apr-11	7	1	\$0.01	Yes	\$44.53	\$44.52
161	23-Apr-11	7	2	\$0.01	Yes	\$44.53	\$44.52
162	23-Apr-11	7	3	\$0.00	Yes	\$44.53	\$44.53
163	23-Apr-11	7	4	-\$0.01	Yes	\$44.53	\$44.54
164	23-Apr-11	7	5	-\$0.02	Yes	\$44.53	\$44.55
165	23-Apr-11	7	6	-\$0.04	Yes	\$44.53	\$44.57
166	23-Apr-11	7	7	-\$0.04	Yes	\$44.53	\$44.57
167	23-Apr-11	7	8	-\$0.09	Yes	\$44.53	\$44.62
168	23-Apr-11	7	9	-\$0.09	Yes	\$44.53	\$44.62
169	23-Apr-11	7	10	-\$1.02	Yes	\$44.53	\$45.55
170	23-Apr-11	7	11	-\$0.09	Yes	\$44.53	\$44.62
171	23-Apr-11	7	12	-\$0.09	Yes	\$44.53	\$44.62
172	23-Apr-11	8	1	-\$0.09	Yes	\$44.53	\$44.62
173	23-Apr-11	8	2	-\$0.09	Yes	\$44.53	\$44.62
174	23-Apr-11	8	3	-\$0.09	Yes	\$44.53	\$44.62
175	23-Apr-11	8	4	-\$0.09	Yes	\$44.53	\$44.62
176	23-Apr-11	8	5	-\$0.02	Yes	\$44.53	\$44.55
177	23-Apr-11	8	6	-\$0.01	Yes	\$44.53	\$44.54
178	23-Apr-11	8	7	\$0.99	Yes	\$44.53	\$43.54

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
179	23-Apr-11	8	8	\$26.68	Yes	\$44.53	\$17.85
180	23-Apr-11	8	9	\$28.18	Yes	\$44.53	\$16.35
181	23-Apr-11	8	10	\$33.85	Yes	\$44.53	\$10.68
182	23-Apr-11	8	11	\$47.53	Yes	\$44.53	-\$3.00
183	23-Apr-11	8	12	\$65.83	Yes	\$44.53	-\$21.30
184	23-Apr-11	9	1	\$1.00	Yes	\$44.53	\$43.53
185	23-Apr-11	9	2	\$30.42	Yes	\$44.53	\$14.11
186	23-Apr-11	9	3	\$0.01	Yes	\$44.53	\$44.52
187	23-Apr-11	9	4	\$0.01	Yes	\$44.53	\$44.52
188	23-Apr-11	9	5	\$0.01	Yes	\$44.53	\$44.52
189	23-Apr-11	9	6	\$0.99	Yes	\$44.53	\$43.54
190	23-Apr-11	9	7	\$25.46	Yes	\$44.53	\$19.07
191	23-Apr-11	9	8	\$0.99	Yes	\$44.53	\$43.54
192	23-Apr-11	9	9	\$26.66	Yes	\$44.53	\$17.87
193	23-Apr-11	9	10	\$47.24	Yes	\$44.53	-\$2.71
194	23-Apr-11	9	11	\$45.20	Yes	\$44.53	-\$0.67
195	23-Apr-11	9	12	\$43.60	Yes	\$44.53	\$0.93
196	23-Apr-11	10	1	\$28.30	Yes	\$44.53	\$16.23
197	23-Apr-11	10	2	\$26.79	Yes	\$44.53	\$17.74
198	23-Apr-11	10	3	\$26.79	Yes	\$44.53	\$17.74
199	23-Apr-11	10	4	\$1.00	Yes	\$44.53	\$43.53
200	23-Apr-11	10	5	\$1.00	Yes	\$44.53	\$43.53
201	23-Apr-11	10	6	\$25.56	Yes	\$44.53	\$18.97
202	23-Apr-11	10	7	\$26.92	Yes	\$44.53	\$17.61
203	23-Apr-11	10	8	\$28.43	Yes	\$44.53	\$16.10
204	23-Apr-11	10	9	\$30.64	Yes	\$44.53	\$13.89
205	23-Apr-11	10	10	\$40.28	Yes	\$44.53	\$4.25
206	23-Apr-11	10	11	\$26.54	Yes	\$44.53	\$17.99
207	23-Apr-11	10	12	\$0.99	Yes	\$44.53	\$43.54
208	23-Apr-11	11	1	\$0.99	Yes	\$44.53	\$43.54
209	23-Apr-11	11	2	\$0.26	Yes	\$44.53	\$44.27
210	23-Apr-11	11	3	\$0.26	Yes	\$44.53	\$44.27
211	23-Apr-11	11	4	\$0.99	Yes	\$44.53	\$43.54
212	23-Apr-11	11	5	\$25.41	Yes	\$44.53	\$19.12
213	23-Apr-11	11	6	\$26.61	Yes	\$44.53	\$17.92
214	23-Apr-11	11	7	\$42.68	Yes	\$44.53	\$1.85
215	23-Apr-11	11	8	\$43.93	Yes	\$44.53	\$0.60
216	23-Apr-11	11	9	\$43.93	Yes	\$44.53	\$0.60
217	23-Apr-11	11	10	\$45.75	Yes	\$44.53	-\$1.22
218	23-Apr-11	11	11	\$44.79	Yes	\$44.53	-\$0.26
219	23-Apr-11	11	12	\$44.21	Yes	\$44.53	\$0.32
220	23-Apr-11	12	1	\$42.29	Yes	\$44.53	\$2.24
221	23-Apr-11	12	2	\$42.29	Yes	\$44.53	\$2.24
222	23-Apr-11	12	3	\$42.29	Yes	\$44.53	\$2.24
223	23-Apr-11	12	4	\$42.45	Yes	\$44.53	\$2.08

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
224	23-Apr-11	12	5	\$42.45	Yes	\$44.53	\$2.08
225	23-Apr-11	12	6	\$42.45	Yes	\$44.53	\$2.08
226	23-Apr-11	12	7	\$42.63	Yes	\$44.53	\$1.90
227	23-Apr-11	12	8	\$42.63	Yes	\$44.53	\$1.90
228	23-Apr-11	12	9	\$42.63	Yes	\$44.53	\$1.90
229	23-Apr-11	12	10	\$42.33	Yes	\$44.53	\$2.20
230	23-Apr-11	12	11	\$36.12	Yes	\$44.53	\$8.41
231	23-Apr-11	12	12	\$23.88	Yes	\$44.53	\$20.65
232	23-Apr-11	13	1	\$29.71	Yes	\$44.53	\$14.82
233	23-Apr-11	13	2	\$30.27	Yes	\$44.53	\$14.26
234	23-Apr-11	13	3	\$20.98	Yes	\$44.53	\$23.55
235	23-Apr-11	13	4	\$20.93	Yes	\$44.53	\$23.60
236	23-Apr-11	13	5	\$30.27	Yes	\$44.53	\$14.26
237	23-Apr-11	13	6	\$20.93	Yes	\$44.53	\$23.60
238	23-Apr-11	13	7	\$20.96	Yes	\$44.53	\$23.57
239	23-Apr-11	13	8	\$20.96	Yes	\$44.53	\$23.57
240	23-Apr-11	13	9	\$30.13	Yes	\$44.53	\$14.40
241	23-Apr-11	13	10	\$30.30	Yes	\$44.53	\$14.23
242	23-Apr-11	13	11	\$30.30	Yes	\$44.53	\$14.23
243	23-Apr-11	13	12	\$30.30	Yes	\$44.53	\$14.23
244	23-Apr-11	14	1	\$0.01	Yes	\$44.53	\$44.52
245	23-Apr-11	14	2	\$0.99	Yes	\$44.53	\$43.54
246	23-Apr-11	14	3	\$0.99	Yes	\$44.53	\$43.54
247	23-Apr-11	14	4	\$0.99	Yes	\$44.53	\$43.54
248	23-Apr-11	14	5	\$0.99	Yes	\$44.53	\$43.54
249	23-Apr-11	14	6	\$0.99	Yes	\$44.53	\$43.54
250	23-Apr-11	14	7	\$0.98	Yes	\$44.53	\$43.55
251	23-Apr-11	14	8	\$0.98	Yes	\$44.53	\$43.55
252	23-Apr-11	14	9	\$0.98	Yes	\$44.53	\$43.55
253	23-Apr-11	14	10	\$0.98	Yes	\$44.53	\$43.55
254	23-Apr-11	14	11	\$0.25	Yes	\$44.53	\$44.28
255	23-Apr-11	14	12	\$0.98	Yes	\$44.53	\$43.55
256	23-Apr-11	15	1	\$25.45	Yes	\$44.53	\$19.08
257	23-Apr-11	15	2	\$25.45	Yes	\$44.53	\$19.08
258	23-Apr-11	15	3	\$25.45	Yes	\$44.53	\$19.08
259	23-Apr-11	15	4	\$0.01	Yes	\$44.53	\$44.52
260	23-Apr-11	15	5	\$0.01	Yes	\$44.53	\$44.52
261	23-Apr-11	15	6	\$0.01	Yes	\$44.53	\$44.52
262	23-Apr-11	15	7	-\$0.01	Yes	\$44.53	\$44.54
263	23-Apr-11	15	8	-\$0.01	Yes	\$44.53	\$44.54
264	23-Apr-11	15	9	-\$0.01	Yes	\$44.53	\$44.54
265	23-Apr-11	15	10	-\$0.01	Yes	\$44.53	\$44.54
266	23-Apr-11	15	11	-\$0.01	Yes	\$44.53	\$44.54
267	23-Apr-11	15	12	-\$0.01	Yes	\$44.53	\$44.54
268	23-Apr-11	16	1	-\$0.01	Yes	\$44.53	\$44.54

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
269	23-Apr-11	16	2	-\$0.01	Yes	\$44.53	\$44.54
270	23-Apr-11	16	3	-\$0.01	Yes	\$44.53	\$44.54
271	23-Apr-11	16	4	\$0.89	Yes	\$44.53	\$43.64
272	23-Apr-11	16	5	\$0.98	Yes	\$44.53	\$43.55
273	23-Apr-11	16	6	\$0.01	Yes	\$44.53	\$44.52
274	23-Apr-11	16	7	-\$0.04	Yes	\$44.53	\$44.57
275	23-Apr-11	16	8	-\$0.01	Yes	\$44.53	\$44.54
276	23-Apr-11	16	9	-\$0.01	Yes	\$44.53	\$44.54
277	23-Apr-11	16	10	-\$0.01	Yes	\$44.53	\$44.54
278	23-Apr-11	16	11	-\$0.01	Yes	\$44.53	\$44.54
279	23-Apr-11	16	12	-\$0.03	Yes	\$44.53	\$44.56
280	23-Apr-11	17	1	-\$0.01	Yes	\$44.53	\$44.54
281	23-Apr-11	17	2	-\$0.01	Yes	\$44.53	\$44.54
282	23-Apr-11	17	3	-\$0.04	Yes	\$44.53	\$44.57
283	23-Apr-11	17	4	\$0.01	Yes	\$44.53	\$44.52
284	23-Apr-11	17	5	\$0.00	Yes	\$44.53	\$44.53
285	23-Apr-11	17	6	\$0.01	Yes	\$44.53	\$44.52
286	23-Apr-11	17	7	\$27.01	Yes	\$44.53	\$17.52
287	23-Apr-11	17	8	\$25.42	Yes	\$44.53	\$19.11
288	23-Apr-11	17	9	\$25.42	Yes	\$44.53	\$19.11
289	23-Apr-11	17	10	\$26.01	Yes	\$44.53	\$18.52
290	23-Apr-11	17	11	\$25.33	Yes	\$44.53	\$19.20
291	23-Apr-11	17	12	\$25.33	Yes	\$44.53	\$19.20
292	23-Apr-11	18	1	\$25.16	Yes	\$44.53	\$19.37
293	23-Apr-11	18	2	\$26.69	Yes	\$44.53	\$17.84
294	23-Apr-11	18	3	\$27.67	Yes	\$44.53	\$16.86
295	23-Apr-11	18	4	\$27.68	Yes	\$44.53	\$16.85
296	23-Apr-11	18	5	\$27.68	Yes	\$44.53	\$16.85
297	23-Apr-11	18	6	\$33.92	Yes	\$44.53	\$10.61
298	23-Apr-11	18	7	\$44.55	Yes	\$44.53	-\$0.02
299	23-Apr-11	18	8	\$42.09	Yes	\$44.53	\$2.44
300	23-Apr-11	18	9	\$42.09	Yes	\$44.53	\$2.44
301	23-Apr-11	18	10	\$29.71	Yes	\$44.53	\$14.82
302	23-Apr-11	18	11	\$27.46	Yes	\$44.53	\$17.07
303	23-Apr-11	18	12	\$27.46	Yes	\$44.53	\$17.07
304	23-Apr-11	19	1	\$28.04	Yes	\$50.30	\$22.26
305	23-Apr-11	19	2	\$27.48	Yes	\$50.30	\$22.82
306	23-Apr-11	19	3	\$27.48	Yes	\$50.30	\$22.82
307	23-Apr-11	19	4	\$27.66	Yes	\$50.30	\$22.64
308	23-Apr-11	19	5	\$39.44	Yes	\$50.30	\$10.86
309	23-Apr-11	19	6	\$42.20	Yes	\$50.30	\$8.10
310	23-Apr-11	19	7	\$42.27	Yes	\$50.30	\$8.03
311	23-Apr-11	19	8	\$42.86	Yes	\$50.30	\$7.44
312	23-Apr-11	19	9	\$44.62	Yes	\$50.30	\$5.68
313	23-Apr-11	19	10	\$44.57	Yes	\$50.30	\$5.73

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
314	23-Apr-11	19	11	\$42.50	Yes	\$50.30	\$7.80
315	23-Apr-11	19	12	\$57.41	Yes	\$50.30	-\$7.11
316	23-Apr-11	20	1	\$60.00	Yes	\$53.80	-\$6.20
317	23-Apr-11	20	2	\$0.98	Yes	\$53.80	\$52.82
318	23-Apr-11	20	3	\$0.21	Yes	\$53.80	\$53.59
319	23-Apr-11	20	4	\$0.98	Yes	\$53.80	\$52.82
320	23-Apr-11	20	5	\$39.83	Yes	\$53.80	\$13.97
321	23-Apr-11	20	6	\$42.91	Yes	\$53.80	\$10.89
322	23-Apr-11	20	7	\$80.78	Yes	\$53.80	-\$26.98
323	23-Apr-11	20	8	\$81.33	Yes	\$53.80	-\$27.53
324	23-Apr-11	20	9	\$81.33	Yes	\$53.80	-\$27.53
325	23-Apr-11	20	10	\$86.13	Yes	\$53.80	-\$32.33
326	23-Apr-11	20	11	\$86.13	Yes	\$53.80	-\$32.33
327	23-Apr-11	20	12	\$81.35	Yes	\$53.80	-\$27.55
328	23-Apr-11	21	1	\$51.85	Yes	\$45.30	-\$6.55
329	23-Apr-11	21	2	\$51.85	Yes	\$45.30	-\$6.55
330	23-Apr-11	21	3	\$21.95	Yes	\$45.30	\$23.35
331	23-Apr-11	21	4	\$0.99	Yes	\$45.30	\$44.31
332	23-Apr-11	21	5	\$43.45	Yes	\$45.30	\$1.85
333	23-Apr-11	21	6	\$43.48	Yes	\$45.30	\$1.82
334	23-Apr-11	21	7	\$20.83	Yes	\$45.30	\$24.47
335	23-Apr-11	21	8	\$11.54	Yes	\$45.30	\$33.76
336	23-Apr-11	21	9	\$27.95	Yes	\$45.30	\$17.35
337	23-Apr-11	21	10	\$0.99	Yes	\$45.30	\$44.31
338	23-Apr-11	21	11	\$20.91	Yes	\$45.30	\$24.39
339	23-Apr-11	21	12	\$0.99	Yes	\$45.30	\$44.31
340	23-Apr-11	22	1	\$44.93	Yes	\$44.53	-\$0.40
341	23-Apr-11	22	2	\$44.93	Yes	\$44.53	-\$0.40
342	23-Apr-11	22	3	\$20.98	Yes	\$44.53	\$23.55
343	23-Apr-11	22	4	\$44.86	Yes	\$44.53	-\$0.33
344	23-Apr-11	22	5	\$44.86	Yes	\$44.53	-\$0.33
345	23-Apr-11	22	6	\$44.86	Yes	\$44.53	-\$0.33
346	23-Apr-11	22	7	\$45.03	Yes	\$44.53	-\$0.50
347	23-Apr-11	22	8	\$0.99	Yes	\$44.53	\$43.54
348	23-Apr-11	22	9	\$21.93	Yes	\$44.53	\$22.60
349	23-Apr-11	22	10	\$26.35	Yes	\$44.53	\$18.18
350	23-Apr-11	22	11	\$20.66	Yes	\$44.53	\$23.87
351	23-Apr-11	22	12	\$0.95	Yes	\$44.53	\$43.58
352	23-Apr-11	23	1	\$30.28	Yes	\$44.53	\$14.25
353	23-Apr-11	23	2	\$34.14	Yes	\$44.53	\$10.39
354	23-Apr-11	23	3	\$34.29	Yes	\$44.53	\$10.24
355	23-Apr-11	23	4	\$34.26	Yes	\$44.53	\$10.27
356	23-Apr-11	23	5	\$34.26	Yes	\$44.53	\$10.27
357	23-Apr-11	23	6	\$33.98	Yes	\$44.53	\$10.55
358	23-Apr-11	23	7	\$31.47	Yes	\$44.53	\$13.06

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
359	23-Apr-11	23	8	\$30.77	Yes	\$44.53	\$13.76
360	23-Apr-11	23	9	\$25.08	Yes	\$44.53	\$19.45
361	23-Apr-11	23	10	-\$0.01	Yes	\$44.53	\$44.54
362	23-Apr-11	23	11	\$0.30	Yes	\$44.53	\$44.23
363	23-Apr-11	23	12	-\$0.01	Yes	\$44.53	\$44.54
364	23-Apr-11	24	1	\$26.11	Yes	\$44.53	\$18.42
365	23-Apr-11	24	2	\$34.34	Yes	\$44.53	\$10.19
366	23-Apr-11	24	3	\$33.39	Yes	\$44.53	\$11.14
367	23-Apr-11	24	4	\$28.81	Yes	\$44.53	\$15.72
368	23-Apr-11	24	5	\$32.16	Yes	\$44.53	\$12.37
369	23-Apr-11	24	6	\$25.21	Yes	\$44.53	\$19.32
370	23-Apr-11	24	7	\$0.02	Yes	\$44.53	\$44.51
371	23-Apr-11	24	8	\$0.00	Yes	\$44.53	\$44.53
372	23-Apr-11	24	9	\$0.02	Yes	\$44.53	\$44.51
373	23-Apr-11	24	10	\$57.30	Yes	\$44.53	-\$12.77
374	23-Apr-11	24	11	\$24.84	Yes	\$44.53	\$19.69
375	23-Apr-11	24	12	-\$0.04	Yes	\$44.53	\$44.57
376	24-Apr-11	11	4	-\$0.09	Yes	\$44.53	\$44.62
377	24-Apr-11	11	5	-\$0.09	Yes	\$44.53	\$44.62
378	24-Apr-11	11	6	-\$1.05	Yes	\$44.53	\$45.58
379	24-Apr-11	11	7	-\$1.05	Yes	\$44.53	\$45.58
380	24-Apr-11	11	7	-\$1.05	Yes	\$44.53	\$45.58
381	24-Apr-11	11	8	-\$0.09	Yes	\$44.53	\$44.62
382	24-Apr-11	11	8	-\$0.09	Yes	\$44.53	\$44.62
383	24-Apr-11	11	9	-\$0.09	Yes	\$44.53	\$44.62
384	24-Apr-11	11	9	-\$0.09	Yes	\$44.53	\$44.62
385	24-Apr-11	11	10	-\$1.04	Yes	\$44.53	\$45.57
386	24-Apr-11	11	10	-\$1.04	Yes	\$44.53	\$45.57
387	24-Apr-11	11	11	-\$0.09	Yes	\$44.53	\$44.62
388	24-Apr-11	11	11	-\$0.09	Yes	\$44.53	\$44.62
389	24-Apr-11	11	12	-\$0.04	Yes	\$44.53	\$44.57
390	24-Apr-11	11	12	-\$0.04	Yes	\$44.53	\$44.57
391	24-Apr-11	12	1	-\$0.01	Yes	\$44.53	\$44.54
392	24-Apr-11	12	2	-\$0.01	Yes	\$44.53	\$44.54
393	24-Apr-11	12	3	-\$0.01	Yes	\$44.53	\$44.54
394	24-Apr-11	12	4	\$0.00	Yes	\$44.53	\$44.53
395	24-Apr-11	12	5	\$1.03	Yes	\$44.53	\$43.50
396	24-Apr-11	12	6	\$1.03	Yes	\$44.53	\$43.50
397	24-Apr-11	12	7	\$1.03	Yes	\$44.53	\$43.50
398	24-Apr-11	12	8	\$1.03	Yes	\$44.53	\$43.50
399	24-Apr-11	12	9	\$1.03	Yes	\$44.53	\$43.50
400	24-Apr-11	12	10	\$0.53	Yes	\$44.53	\$44.00
401	24-Apr-11	12	11	\$0.00	Yes	\$44.53	\$44.53
402	24-Apr-11	12	12	\$0.53	Yes	\$44.53	\$44.00
403	24-Apr-11	13	1	\$1.03	Yes	\$44.53	\$43.50

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
404	24-Apr-11	13	2	\$1.03	Yes	\$44.53	\$43.50
405	24-Apr-11	13	3	\$1.03	Yes	\$44.53	\$43.50
406	24-Apr-11	13	4	\$1.03	Yes	\$44.53	\$43.50
407	24-Apr-11	13	5	\$1.03	Yes	\$44.53	\$43.50
408	24-Apr-11	13	6	\$1.03	Yes	\$44.53	\$43.50
409	24-Apr-11	13	7	\$1.03	Yes	\$44.53	\$43.50
410	24-Apr-11	13	8	\$1.03	Yes	\$44.53	\$43.50
411	24-Apr-11	13	9	\$0.60	Yes	\$44.53	\$43.93
412	24-Apr-11	13	10	\$0.59	Yes	\$44.53	\$43.94
413	24-Apr-11	13	11	\$0.59	Yes	\$44.53	\$43.94
414	24-Apr-11	13	12	\$0.59	Yes	\$44.53	\$43.94
415	24-Apr-11	14	1	\$1.03	Yes	\$44.53	\$43.50
416	24-Apr-11	14	2	\$1.03	Yes	\$44.53	\$43.50
417	24-Apr-11	14	3	\$1.03	Yes	\$44.53	\$43.50
418	24-Apr-11	14	4	\$0.59	Yes	\$44.53	\$43.94
419	24-Apr-11	14	5	\$0.59	Yes	\$44.53	\$43.94
420	24-Apr-11	14	6	-\$0.01	Yes	\$44.53	\$44.54
421	24-Apr-11	14	7	\$0.00	Yes	\$44.53	\$44.53
422	24-Apr-11	14	8	-\$0.01	Yes	\$44.53	\$44.54
423	24-Apr-11	14	9	-\$0.01	Yes	\$44.53	\$44.54
424	24-Apr-11	14	10	-\$0.04	Yes	\$44.53	\$44.57
425	24-Apr-11	14	11	-\$0.02	Yes	\$44.53	\$44.55
426	24-Apr-11	14	12	-\$0.09	Yes	\$44.53	\$44.62
427	24-Apr-11	15	1	-\$0.01	Yes	\$44.53	\$44.54
428	24-Apr-11	15	2	-\$0.01	Yes	\$44.53	\$44.54
429	24-Apr-11	15	3	-\$0.04	Yes	\$44.53	\$44.57
430	24-Apr-11	15	4	-\$0.04	Yes	\$44.53	\$44.57
431	24-Apr-11	15	5	-\$0.01	Yes	\$44.53	\$44.54
432	24-Apr-11	15	6	-\$0.01	Yes	\$44.53	\$44.54
433	24-Apr-11	15	7	-\$0.04	Yes	\$44.53	\$44.57
434	24-Apr-11	15	8	-\$0.04	Yes	\$44.53	\$44.57
435	24-Apr-11	15	9	-\$0.09	Yes	\$44.53	\$44.62
436	24-Apr-11	15	10	-\$0.09	Yes	\$44.53	\$44.62
437	24-Apr-11	15	11	-\$0.09	Yes	\$44.53	\$44.62
438	24-Apr-11	15	12	-\$0.04	Yes	\$44.53	\$44.57
439	24-Apr-11	16	1	-\$0.01	Yes	\$44.53	\$44.54
440	24-Apr-11	16	2	-\$0.01	Yes	\$44.53	\$44.54
441	24-Apr-11	16	3	-\$0.01	Yes	\$44.53	\$44.54
442	24-Apr-11	16	4	-\$0.04	Yes	\$44.53	\$44.57
443	24-Apr-11	16	5	-\$0.04	Yes	\$44.53	\$44.57
444	24-Apr-11	16	6	-\$1.04	Yes	\$44.53	\$45.57
445	24-Apr-11	16	7	-\$1.04	Yes	\$44.53	\$45.57
446	24-Apr-11	16	8	-\$1.04	Yes	\$44.53	\$45.57
447	24-Apr-11	16	9	-\$1.04	Yes	\$44.53	\$45.57
448	24-Apr-11	16	10	-\$1.04	Yes	\$44.53	\$45.57

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
449	24-Apr-11	16	11	-\$0.09	Yes	\$44.53	\$44.62
450	24-Apr-11	16	12	-\$1.04	Yes	\$44.53	\$45.57
451	24-Apr-11	17	1	-\$0.04	Yes	\$44.53	\$44.57
452	24-Apr-11	17	2	-\$0.04	Yes	\$44.53	\$44.57
453	24-Apr-11	17	3	-\$0.04	Yes	\$44.53	\$44.57
454	24-Apr-11	17	4	-\$0.09	Yes	\$44.53	\$44.62
455	24-Apr-11	17	5	-\$0.09	Yes	\$44.53	\$44.62
456	24-Apr-11	17	6	-\$1.04	Yes	\$44.53	\$45.57
457	24-Apr-11	17	7	-\$1.04	Yes	\$44.53	\$45.57
458	24-Apr-11	17	8	-\$0.09	Yes	\$44.53	\$44.62
459	24-Apr-11	17	9	-\$0.04	Yes	\$44.53	\$44.57
460	24-Apr-11	17	10	-\$0.01	Yes	\$44.53	\$44.54
461	24-Apr-11	17	11	-\$0.04	Yes	\$44.53	\$44.57
462	24-Apr-11	17	12	-\$0.04	Yes	\$44.53	\$44.57
463	24-Apr-11	18	1	-\$0.01	Yes	\$44.53	\$44.54
464	24-Apr-11	18	2	-\$0.04	Yes	\$44.53	\$44.57
465	24-Apr-11	18	3	-\$0.02	Yes	\$44.53	\$44.55
466	24-Apr-11	18	4	-\$0.01	Yes	\$44.53	\$44.54
467	24-Apr-11	18	5	-\$0.01	Yes	\$44.53	\$44.54
468	24-Apr-11	18	6	-\$0.01	Yes	\$44.53	\$44.54
469	24-Apr-11	18	7	\$0.00	Yes	\$44.53	\$44.53
470	24-Apr-11	18	8	\$0.00	Yes	\$44.53	\$44.53
471	24-Apr-11	18	9	\$0.00	Yes	\$44.53	\$44.53
472	24-Apr-11	18	10	\$0.00	Yes	\$44.53	\$44.53
473	24-Apr-11	18	11	\$0.00	Yes	\$44.53	\$44.53
474	24-Apr-11	18	12	-\$0.01	Yes	\$44.53	\$44.54
475	24-Apr-11	19	1	-\$0.01	Yes	\$44.53	\$44.54
476	24-Apr-11	19	2	\$0.00	Yes	\$44.53	\$44.53
477	24-Apr-11	19	3	-\$0.01	Yes	\$44.53	\$44.54
478	24-Apr-11	19	4	-\$0.01	Yes	\$44.53	\$44.54
479	24-Apr-11	19	5	-\$0.04	Yes	\$44.53	\$44.57
480	24-Apr-11	19	6	-\$0.04	Yes	\$44.53	\$44.57
481	24-Apr-11	19	7	-\$1.04	Yes	\$44.53	\$45.57
482	24-Apr-11	19	8	-\$1.04	Yes	\$44.53	\$45.57
483	24-Apr-11	19	9	-\$1.04	Yes	\$44.53	\$45.57
484	24-Apr-11	19	10	-\$1.04	Yes	\$44.53	\$45.57
485	24-Apr-11	19	11	-\$1.04	Yes	\$44.53	\$45.57
486	24-Apr-11	19	12	-\$1.04	Yes	\$44.53	\$45.57
487	24-Apr-11	20	1	-\$32.91	Yes	\$44.53	\$77.44
488	24-Apr-11	20	2	-\$32.91	Yes	\$44.53	\$77.44
489	24-Apr-11	20	3	-\$31.04	Yes	\$44.53	\$75.57
490	24-Apr-11	20	4	-\$32.62	Yes	\$44.53	\$77.15
491	24-Apr-11	20	5	-\$2.51	Yes	\$44.53	\$47.04
492	24-Apr-11	20	6	-\$1.98	Yes	\$44.53	\$46.51
493	24-Apr-11	20	7	-\$1.04	Yes	\$44.53	\$45.57

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
494	24-Apr-11	20	8	-\$0.04	Yes	\$44.53	\$44.57
495	24-Apr-11	20	9	-\$0.01	Yes	\$44.53	\$44.54
496	24-Apr-11	20	10	\$0.00	Yes	\$44.53	\$44.53
497	24-Apr-11	20	11	\$0.00	Yes	\$44.53	\$44.53
498	24-Apr-11	20	12	\$43.22	Yes	\$44.53	\$1.31
499	24-Apr-11	21	1	\$23.42	Yes	\$44.53	\$21.11
500	24-Apr-11	21	2	\$21.62	Yes	\$44.53	\$22.91
501	24-Apr-11	21	3	\$33.38	Yes	\$44.53	\$11.15
502	24-Apr-11	21	4	\$0.00	Yes	\$44.53	\$44.53
503	24-Apr-11	21	5	\$43.39	Yes	\$44.53	\$1.14
504	24-Apr-11	21	6	\$32.67	Yes	\$44.53	\$11.86
505	24-Apr-11	21	7	\$33.50	Yes	\$44.53	\$11.03
506	24-Apr-11	21	8	\$32.74	Yes	\$44.53	\$11.79
507	24-Apr-11	21	9	\$0.00	Yes	\$44.53	\$44.53
508	24-Apr-11	21	10	-\$0.01	Yes	\$44.53	\$44.54
509	24-Apr-11	21	11	-\$0.04	Yes	\$44.53	\$44.57
510	24-Apr-11	21	12	\$0.02	Yes	\$44.53	\$44.51
511	24-Apr-11	22	1	\$32.90	Yes	\$44.53	\$11.63
512	24-Apr-11	22	2	\$27.23	Yes	\$44.53	\$17.30
513	24-Apr-11	22	3	\$0.00	Yes	\$44.53	\$44.53
514	24-Apr-11	22	4	\$0.00	Yes	\$44.53	\$44.53
515	24-Apr-11	22	5	\$0.00	Yes	\$44.53	\$44.53
516	24-Apr-11	22	6	\$0.00	Yes	\$44.53	\$44.53
517	24-Apr-11	22	7	\$0.00	Yes	\$44.53	\$44.53
518	24-Apr-11	22	8	-\$0.01	Yes	\$44.53	\$44.54
519	24-Apr-11	22	9	-\$0.02	Yes	\$44.53	\$44.55
520	24-Apr-11	22	10	-\$0.04	Yes	\$44.53	\$44.57
521	24-Apr-11	22	11	-\$0.09	Yes	\$44.53	\$44.62
522	24-Apr-11	22	12	-\$0.09	Yes	\$44.53	\$44.62
523	24-Apr-11	23	1	\$0.00	Yes	\$44.53	\$44.53
524	24-Apr-11	23	2	\$0.96	Yes	\$44.53	\$43.57
525	24-Apr-11	23	3	\$0.00	Yes	\$44.53	\$44.53
526	24-Apr-11	23	4	\$0.96	Yes	\$44.53	\$43.57
527	24-Apr-11	23	5	\$0.96	Yes	\$44.53	\$43.57
528	24-Apr-11	23	6	\$0.00	Yes	\$44.53	\$44.53
529	24-Apr-11	23	7	\$0.00	Yes	\$44.53	\$44.53
530	24-Apr-11	23	8	-\$0.04	Yes	\$44.53	\$44.57
531	24-Apr-11	23	9	-\$0.04	Yes	\$44.53	\$44.57
532	24-Apr-11	23	10	-\$0.09	Yes	\$44.53	\$44.62
533	24-Apr-11	23	11	-\$2.49	Yes	\$44.53	\$47.02
534	24-Apr-11	23	12	-\$1.03	Yes	\$44.53	\$45.56
535	24-Apr-11	24	1	-\$0.04	Yes	\$44.53	\$44.57
536	24-Apr-11	24	2	-\$0.09	Yes	\$44.53	\$44.62
537	24-Apr-11	24	3	-\$1.03	Yes	\$44.53	\$45.56
538	24-Apr-11	24	4	-\$1.02	Yes	\$44.53	\$45.55

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
539	24-Apr-11	24	5	-\$30.97	Yes	\$44.53	\$75.50
540	24-Apr-11	24	6	-\$30.97	Yes	\$44.53	\$75.50
541	24-Apr-11	24	7	-\$29.35	Yes	\$44.53	\$73.88
542	24-Apr-11	24	8	-\$31.27	Yes	\$44.53	\$75.80
543	24-Apr-11	24	9	-\$33.26	Yes	\$44.53	\$77.79
544	24-Apr-11	24	10	-\$33.09	Yes	\$44.53	\$77.62
545	24-Apr-11	24	11	-\$33.09	Yes	\$44.53	\$77.62
546	24-Apr-11	24	12	-\$33.09	Yes	\$44.53	\$77.62
547	25-Apr-11	5	12	-\$0.01	Yes	\$44.53	\$44.54
548	25-Apr-11	6	1	-\$1.04	Yes	\$44.53	\$45.57
549	25-Apr-11	6	2	-\$0.09	Yes	\$44.53	\$44.62
550	25-Apr-11	6	2	-\$0.09	Yes	\$44.53	\$44.62
551	25-Apr-11	6	3	-\$1.04	Yes	\$44.53	\$45.57
552	25-Apr-11	6	3	-\$1.04	Yes	\$44.53	\$45.57
553	25-Apr-11	6	4	-\$29.40	Yes	\$44.53	\$73.93
554	25-Apr-11	6	4	-\$29.40	Yes	\$44.53	\$73.93
555	25-Apr-11	6	5	-\$1.05	Yes	\$44.53	\$45.58
556	25-Apr-11	6	5	-\$1.05	Yes	\$44.53	\$45.58
557	25-Apr-11	6	6	-\$1.05	Yes	\$44.53	\$45.58
558	25-Apr-11	6	6	-\$1.05	Yes	\$44.53	\$45.58
559	25-Apr-11	6	7	-\$0.09	Yes	\$44.53	\$44.62
560	25-Apr-11	6	7	-\$0.09	Yes	\$44.53	\$44.62
561	25-Apr-11	6	8	-\$0.04	Yes	\$44.53	\$44.57
562	25-Apr-11	6	9	\$9.94	Yes	\$44.53	\$34.59
563	25-Apr-11	6	10	\$40.52	Yes	\$44.53	\$4.01
564	25-Apr-11	6	11	\$80.82	Yes	\$44.53	-\$36.29
565	25-Apr-11	6	12	\$14.86	Yes	\$44.53	\$29.67
566	25-Apr-11	7	1	-\$0.04	Yes	\$44.53	\$44.57
567	25-Apr-11	7	2	\$23.74	Yes	\$44.53	\$20.79
568	25-Apr-11	7	3	\$23.74	Yes	\$44.53	\$20.79
569	25-Apr-11	7	4	\$23.60	Yes	\$44.53	\$20.93
570	25-Apr-11	7	5	\$23.60	Yes	\$44.53	\$20.93
571	25-Apr-11	7	6	\$48.75	Yes	\$44.53	-\$4.22
572	25-Apr-11	7	7	\$23.38	Yes	\$44.53	\$21.15
573	25-Apr-11	7	8	\$44.47	Yes	\$44.53	\$0.06
574	25-Apr-11	7	9	\$74.47	Yes	\$44.53	-\$29.94
575	25-Apr-11	7	10	\$47.41	Yes	\$44.53	-\$2.88
576	25-Apr-11	7	11	\$81.12	Yes	\$44.53	-\$36.59
577	25-Apr-11	7	12	\$81.12	Yes	\$44.53	-\$36.59
578	27-Apr-11	13	12	\$23.57	Yes	\$44.88	\$21.31
579	27-Apr-11	14	1	\$201.14	Yes	\$44.88	-\$156.26
580	27-Apr-11	14	2	\$201.14	Yes	\$44.88	-\$156.26
581	27-Apr-11	14	3	\$20.81	Yes	\$44.88	\$24.07
582	27-Apr-11	14	3	\$20.81	Yes	\$44.88	\$24.07
583	27-Apr-11	14	4	\$30.27	Yes	\$44.88	\$14.61

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
584	27-Apr-11	14	4	\$30.27	Yes	\$44.88	\$14.61
585	27-Apr-11	14	5	\$30.27	Yes	\$44.88	\$14.61
586	27-Apr-11	14	5	\$30.27	Yes	\$44.88	\$14.61
587	27-Apr-11	14	6	\$31.72	Yes	\$44.88	\$13.16
588	27-Apr-11	14	6	\$31.72	Yes	\$44.88	\$13.16
589	27-Apr-11	14	7	\$30.55	Yes	\$44.88	\$14.33
590	27-Apr-11	14	7	\$30.55	Yes	\$44.88	\$14.33
591	27-Apr-11	14	8	\$30.70	Yes	\$44.88	\$14.18
592	27-Apr-11	14	8	\$30.70	Yes	\$44.88	\$14.18
593	27-Apr-11	14	9	\$30.70	Yes	\$44.88	\$14.18
594	27-Apr-11	14	9	\$30.70	Yes	\$44.88	\$14.18
595	27-Apr-11	14	10	\$31.79	Yes	\$44.88	\$13.09
596	27-Apr-11	14	10	\$31.79	Yes	\$44.88	\$13.09
597	27-Apr-11	14	11	\$30.81	Yes	\$44.88	\$14.07
598	27-Apr-11	14	11	\$30.81	Yes	\$44.88	\$14.07
599	27-Apr-11	14	12	\$31.79	Yes	\$44.88	\$13.09
600	27-Apr-11	14	12	\$31.79	Yes	\$44.88	\$13.09
601	27-Apr-11	15	1	\$27.87	Yes	\$44.88	\$17.01
602	27-Apr-11	15	2	\$30.54	Yes	\$44.88	\$14.34
603	27-Apr-11	15	3	\$27.97	Yes	\$44.88	\$16.91
604	27-Apr-11	15	4	\$25.84	No	\$44.88	\$19.04
605	27-Apr-11	15	5	\$23.88	No	\$44.88	\$21.00
606	27-Apr-11	15	6	\$25.84	No	\$44.88	\$19.04
607	27-Apr-11	15	7	\$19.85	No	\$44.88	\$25.03
608	27-Apr-11	15	8	\$19.85	No	\$44.88	\$25.03
609	27-Apr-11	15	9	\$19.85	No	\$44.88	\$25.03
610	27-Apr-11	15	10	\$19.87	No	\$44.88	\$25.01
611	27-Apr-11	15	11	\$19.87	No	\$44.88	\$25.01
612	27-Apr-11	15	12	\$19.87	No	\$44.88	\$25.01
613	27-Apr-11	16	1	\$19.72	No	\$44.88	\$25.16
614	27-Apr-11	16	2	\$19.75	No	\$44.88	\$25.13
615	27-Apr-11	16	3	\$14.94	No	\$44.88	\$29.94
616	27-Apr-11	16	4	\$19.79	No	\$44.88	\$25.09
617	27-Apr-11	16	5	\$19.79	No	\$44.88	\$25.09
618	27-Apr-11	16	6	\$19.79	No	\$44.88	\$25.09
619	27-Apr-11	16	7	\$19.80	No	\$44.88	\$25.08
620	27-Apr-11	16	8	\$19.80	No	\$44.88	\$25.08
621	27-Apr-11	16	9	\$19.80	No	\$44.88	\$25.08
622	27-Apr-11	16	10	\$19.72	No	\$44.88	\$25.16
623	27-Apr-11	16	11	\$15.63	No	\$44.88	\$29.25
624	27-Apr-11	16	12	\$15.63	No	\$44.88	\$29.25
625	27-Apr-11	17	1	\$0.41	No	\$44.88	\$44.47
626	27-Apr-11	17	2	\$0.74	No	\$44.88	\$44.14
627	27-Apr-11	17	3	\$0.33	No	\$44.88	\$44.55
628	27-Apr-11	17	4	\$0.28	No	\$44.88	\$44.60

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
629	27-Apr-11	17	5	-\$0.22	No	\$44.88	\$45.10
630	27-Apr-11	17	6	-\$0.22	No	\$44.88	\$45.10
631	27-Apr-11	17	7	-\$0.62	No	\$44.88	\$45.50
632	27-Apr-11	17	8	-\$0.51	No	\$44.88	\$45.39
633	27-Apr-11	17	9	-\$0.54	No	\$44.88	\$45.42
634	27-Apr-11	17	10	-\$0.47	No	\$44.88	\$45.35
635	27-Apr-11	17	11	-\$0.24	No	\$44.88	\$45.12
636	27-Apr-11	17	12	-\$0.23	No	\$44.88	\$45.11
637	27-Apr-11	18	1	\$0.09	No	\$44.88	\$44.79
638	27-Apr-11	18	2	\$0.06	No	\$44.88	\$44.82
639	27-Apr-11	18	3	\$0.00	No	\$44.88	\$44.88
640	27-Apr-11	18	4	-\$0.02	No	\$44.88	\$44.90
641	27-Apr-11	18	5	-\$0.02	No	\$44.88	\$44.90
642	27-Apr-11	18	6	-\$0.03	No	\$44.88	\$44.91
643	27-Apr-11	18	7	-\$0.43	No	\$44.88	\$45.31
644	27-Apr-11	18	8	-\$0.10	No	\$44.88	\$44.98
645	27-Apr-11	18	9	-\$0.02	No	\$44.88	\$44.90
646	27-Apr-11	18	10	-\$0.01	No	\$44.88	\$44.89
647	27-Apr-11	18	11	\$0.00	No	\$44.88	\$44.88
648	27-Apr-11	18	12	\$0.69	No	\$44.88	\$44.19
649	27-Apr-11	19	1	\$0.92	No	\$44.88	\$43.96
650	27-Apr-11	19	2	\$0.92	No	\$44.88	\$43.96
651	27-Apr-11	19	3	\$3.84	No	\$44.88	\$41.04
652	27-Apr-11	19	4	\$8.11	No	\$44.88	\$36.77
653	27-Apr-11	19	5	\$8.11	No	\$44.88	\$36.77
654	27-Apr-11	19	6	\$12.37	No	\$44.88	\$32.51
655	27-Apr-11	19	7	\$19.37	No	\$44.88	\$25.51
656	27-Apr-11	19	8	\$19.37	No	\$44.88	\$25.51
657	27-Apr-11	19	9	\$19.37	No	\$44.88	\$25.51
658	27-Apr-11	19	10	\$19.37	No	\$44.88	\$25.51
659	27-Apr-11	19	11	\$19.37	No	\$44.88	\$25.51
660	27-Apr-11	19	12	\$0.92	No	\$44.88	\$43.96
661	27-Apr-11	20	1	-\$0.02	No	\$44.88	\$44.90
662	27-Apr-11	20	2	-\$0.04	No	\$44.88	\$44.92
663	27-Apr-11	20	3	-\$1.00	No	\$44.88	\$45.88
664	27-Apr-11	20	4	-\$0.04	No	\$44.88	\$44.92
665	27-Apr-11	20	5	-\$0.02	No	\$44.88	\$44.90
666	27-Apr-11	20	6	\$0.02	No	\$44.88	\$44.86
667	27-Apr-11	20	7	\$0.93	No	\$44.88	\$43.95
668	27-Apr-11	20	8	\$12.48	No	\$44.88	\$32.40
669	27-Apr-11	20	9	\$19.73	No	\$44.88	\$25.15
670	27-Apr-11	20	10	\$24.20	No	\$44.88	\$20.68
671	27-Apr-11	20	11	\$19.94	No	\$44.88	\$24.94
672	27-Apr-11	20	12	\$19.94	No	\$44.88	\$24.94
673	27-Apr-11	21	1	\$19.77	No	\$44.88	\$25.11

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
674	27-Apr-11	21	2	\$20.01	No	\$44.88	\$24.87
675	27-Apr-11	21	3	\$17.35	No	\$44.88	\$27.53
676	27-Apr-11	21	4	\$19.77	No	\$44.88	\$25.11
677	27-Apr-11	21	5	\$19.77	No	\$44.88	\$25.11
678	27-Apr-11	21	6	\$19.76	No	\$44.88	\$25.12
679	27-Apr-11	21	7	\$19.78	No	\$44.88	\$25.10
680	27-Apr-11	21	8	\$19.78	No	\$44.88	\$25.10
681	27-Apr-11	21	9	\$19.81	No	\$44.88	\$25.07
682	27-Apr-11	21	10	\$0.00	No	\$44.88	\$44.88
683	27-Apr-11	21	11	\$1.12	No	\$44.88	\$43.76
684	27-Apr-11	21	12	\$1.12	No	\$44.88	\$43.76
685	27-Apr-11	22	1	\$19.78	No	\$44.88	\$25.10
686	27-Apr-11	22	2	\$23.58	No	\$44.88	\$21.30
687	27-Apr-11	22	3	\$19.78	No	\$44.88	\$25.10
688	27-Apr-11	22	4	\$19.73	No	\$44.88	\$25.15
689	27-Apr-11	22	5	\$19.73	No	\$44.88	\$25.15
690	27-Apr-11	22	6	\$19.73	No	\$44.88	\$25.15
691	27-Apr-11	22	7	\$19.71	No	\$44.88	\$25.17
692	27-Apr-11	22	8	\$15.54	No	\$44.88	\$29.34
693	27-Apr-11	22	9	\$1.11	No	\$44.88	\$43.77
694	27-Apr-11	22	10	\$1.11	No	\$44.88	\$43.77
695	27-Apr-11	22	11	\$1.11	No	\$44.88	\$43.77
696	27-Apr-11	22	12	\$15.40	No	\$44.88	\$29.48
697	27-Apr-11	23	1	\$26.06	No	\$44.88	\$18.82
698	27-Apr-11	23	2	\$30.25	No	\$44.88	\$14.63
699	27-Apr-11	23	3	\$35.59	No	\$44.88	\$9.29
700	27-Apr-11	23	4	\$35.52	No	\$44.88	\$9.36
701	27-Apr-11	23	5	\$35.52	No	\$44.88	\$9.36
702	27-Apr-11	23	6	\$30.21	No	\$44.88	\$14.67
703	27-Apr-11	23	7	\$23.70	No	\$44.88	\$21.18
704	27-Apr-11	23	8	\$19.87	No	\$44.88	\$25.01
705	27-Apr-11	23	9	\$9.83	No	\$44.88	\$35.05
706	27-Apr-11	23	10	\$9.84	No	\$44.88	\$35.04
707	27-Apr-11	23	11	\$9.84	No	\$44.88	\$35.04
708	27-Apr-11	23	12	\$9.84	No	\$44.88	\$35.04
709	27-Apr-11	24	1	\$0.02	No	\$44.97	\$44.95
710	27-Apr-11	24	2	\$24.36	No	\$44.97	\$20.61
711	27-Apr-11	24	3	\$31.45	No	\$44.97	\$13.52
712	27-Apr-11	24	4	\$32.21	No	\$44.97	\$12.76
713	27-Apr-11	24	5	\$29.33	No	\$44.97	\$15.64
714	27-Apr-11	24	6	\$9.79	No	\$44.97	\$35.18
715	27-Apr-11	24	7	\$0.00	No	\$44.97	\$44.97
716	27-Apr-11	24	8	\$9.78	No	\$44.97	\$35.19
717	27-Apr-11	24	9	\$4.52	No	\$44.97	\$40.45
718	27-Apr-11	24	10	-\$0.01	No	\$44.97	\$44.98

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
719	27-Apr-11	24	11	\$9.77	No	\$44.97	\$35.20
720	27-Apr-11	24	12	\$4.53	No	\$44.97	\$40.44
721	28-Apr-11	1	1	-\$0.04	No	\$44.97	\$45.01
722	28-Apr-11	1	2	\$25.18	No	\$44.97	\$19.79
723	28-Apr-11	1	3	\$46.03	No	\$44.97	-\$1.06
724	28-Apr-11	1	4	\$32.80	No	\$44.97	\$12.17
725	28-Apr-11	1	5	\$32.80	No	\$44.97	\$12.17
726	28-Apr-11	1	6	\$40.30	No	\$44.97	\$4.67
727	28-Apr-11	1	7	\$33.92	No	\$44.97	\$11.05
728	28-Apr-11	1	8	\$19.95	No	\$44.97	\$25.02
729	28-Apr-11	1	9	\$19.95	No	\$44.97	\$25.02
730	28-Apr-11	1	10	\$9.82	No	\$44.97	\$35.15
731	28-Apr-11	1	11	\$18.93	No	\$44.97	\$26.04
732	28-Apr-11	1	12	\$18.93	No	\$44.97	\$26.04
733	28-Apr-11	2	1	\$18.84	No	\$44.97	\$26.13
734	28-Apr-11	2	2	\$19.78	No	\$44.97	\$25.19
735	28-Apr-11	2	3	\$18.84	No	\$44.97	\$26.13
736	28-Apr-11	2	4	\$9.80	No	\$44.97	\$35.17
737	28-Apr-11	2	5	\$9.80	No	\$44.97	\$35.17
738	28-Apr-11	2	6	\$9.80	No	\$44.97	\$35.17
739	28-Apr-11	2	7	\$9.81	No	\$44.97	\$35.16
740	28-Apr-11	2	8	\$9.81	No	\$44.97	\$35.16
741	28-Apr-11	2	9	\$0.02	No	\$44.97	\$44.95
742	28-Apr-11	2	10	-\$0.01	No	\$44.97	\$44.98
743	28-Apr-11	2	11	\$9.85	No	\$44.97	\$35.12
744	28-Apr-11	2	12	\$15.43	No	\$44.97	\$29.54
745	28-Apr-11	3	1	\$14.34	No	\$44.97	\$30.63
746	28-Apr-11	3	2	\$29.76	No	\$44.97	\$15.21
747	28-Apr-11	3	3	\$29.76	No	\$44.97	\$15.21
748	28-Apr-11	3	4	\$25.27	No	\$44.97	\$19.70
749	28-Apr-11	3	5	\$26.53	No	\$44.97	\$18.44
750	28-Apr-11	3	6	\$25.27	No	\$44.97	\$19.70
751	28-Apr-11	3	7	\$26.53	No	\$44.97	\$18.44
752	28-Apr-11	3	8	\$25.11	No	\$44.97	\$19.86
753	28-Apr-11	3	9	\$25.11	No	\$44.97	\$19.86
754	28-Apr-11	3	10	\$29.75	No	\$44.97	\$15.22
755	28-Apr-11	3	11	\$10.45	No	\$44.97	\$34.52
756	28-Apr-11	3	12	\$0.96	No	\$44.97	\$44.01
757	28-Apr-11	4	1	\$0.97	No	\$44.97	\$44.00
758	28-Apr-11	4	2	\$0.97	No	\$44.97	\$44.00
759	28-Apr-11	4	3	\$10.54	No	\$44.97	\$34.43
760	28-Apr-11	4	4	\$10.50	No	\$44.97	\$34.47
761	28-Apr-11	4	5	\$10.50	No	\$44.97	\$34.47
762	28-Apr-11	4	6	\$25.29	No	\$44.97	\$19.68
763	28-Apr-11	4	7	\$9.51	No	\$44.97	\$35.46

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
764	28-Apr-11	4	8	\$10.45	No	\$44.97	\$34.52
765	28-Apr-11	4	9	\$25.13	No	\$44.97	\$19.84
766	28-Apr-11	4	10	\$25.10	No	\$44.97	\$19.87
767	28-Apr-11	4	11	\$10.42	No	\$44.97	\$34.55
768	28-Apr-11	4	12	\$10.42	No	\$44.97	\$34.55
769	28-Apr-11	5	1	\$18.81	No	\$44.97	\$26.16
770	28-Apr-11	5	2	\$18.81	No	\$44.97	\$26.16
771	28-Apr-11	5	3	\$17.87	No	\$44.97	\$27.10
772	28-Apr-11	5	4	\$18.78	No	\$44.97	\$26.19
773	28-Apr-11	5	5	\$18.78	No	\$44.97	\$26.19
774	28-Apr-11	5	6	\$18.78	No	\$44.97	\$26.19
775	28-Apr-11	5	7	\$18.78	No	\$44.97	\$26.19
776	28-Apr-11	5	8	\$25.12	No	\$44.97	\$19.85
777	28-Apr-11	5	9	\$18.78	No	\$44.97	\$26.19
778	28-Apr-11	5	10	\$35.36	No	\$44.97	\$9.61
779	28-Apr-11	5	11	\$40.74	No	\$44.97	\$4.23
780	28-Apr-11	5	12	\$45.32	No	\$44.97	-\$0.35
781	28-Apr-11	6	1	\$35.67	No	\$44.97	\$9.30
782	28-Apr-11	6	2	\$9.77	No	\$44.97	\$35.20
783	28-Apr-11	6	3	\$9.77	No	\$44.97	\$35.20
784	28-Apr-11	6	4	-\$0.04	No	\$44.97	\$45.01
785	28-Apr-11	6	5	-\$0.01	No	\$44.97	\$44.98
786	28-Apr-11	6	6	-\$0.01	No	\$44.97	\$44.98
787	28-Apr-11	6	7	-\$0.01	No	\$44.97	\$44.98
788	28-Apr-11	6	8	\$9.78	No	\$44.97	\$35.19
789	28-Apr-11	6	9	\$18.76	No	\$44.97	\$26.21
790	28-Apr-11	6	10	\$32.92	No	\$44.97	\$12.05
791	28-Apr-11	6	11	\$33.48	No	\$44.97	\$11.49
792	28-Apr-11	6	12	-\$0.04	No	\$44.97	\$45.01
793	28-Apr-11	7	1	-\$30.29	No	\$44.97	\$75.26
794	28-Apr-11	7	2	-\$32.11	No	\$44.97	\$77.08
795	28-Apr-11	7	3	-\$32.11	Yes	\$44.97	\$77.08
796	28-Apr-11	7	4	-\$31.95	Yes	\$44.97	\$76.92
797	28-Apr-11	7	5	-\$31.95	Yes	\$44.97	\$76.92
798	28-Apr-11	7	6	-\$5.94	Yes	\$44.97	\$50.91
799	28-Apr-11	7	7	-\$0.04	Yes	\$44.97	\$45.01
800	28-Apr-11	7	8	-\$0.04	Yes	\$44.97	\$45.01
801	28-Apr-11	7	9	-\$0.01	Yes	\$44.97	\$44.98
802	28-Apr-11	7	10	\$12.72	Yes	\$44.97	\$32.25
803	28-Apr-11	7	11	\$8.52	Yes	\$44.97	\$36.45
804	28-Apr-11	7	12	-\$0.04	Yes	\$44.97	\$45.01
805	28-Apr-11	8	1	-\$6.08	Yes	\$44.97	\$51.05
806	28-Apr-11	8	2	-\$0.04	Yes	\$44.97	\$45.01
807	28-Apr-11	8	3	-\$0.04	Yes	\$44.97	\$45.01
808	28-Apr-11	8	4	-\$0.04	Yes	\$44.97	\$45.01

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
809	28-Apr-11	8	5	-\$0.01	Yes	\$44.97	\$44.98
810	28-Apr-11	8	6	-\$0.01	Yes	\$44.97	\$44.98
811	28-Apr-11	8	7	\$0.02	Yes	\$44.97	\$44.95
812	28-Apr-11	8	8	\$12.89	Yes	\$44.97	\$32.08
813	28-Apr-11	8	9	\$12.89	Yes	\$44.97	\$32.08
814	28-Apr-11	8	10	\$17.81	Yes	\$44.97	\$27.16
815	28-Apr-11	8	11	\$27.75	Yes	\$44.97	\$17.22
816	28-Apr-11	8	12	\$21.25	Yes	\$44.97	\$23.72
817	28-Apr-11	9	1	\$0.59	Yes	\$44.97	\$44.38
818	28-Apr-11	9	2	\$0.59	Yes	\$44.97	\$44.38
819	28-Apr-11	9	3	\$0.59	Yes	\$44.97	\$44.38
820	28-Apr-11	9	4	\$8.67	Yes	\$44.97	\$36.30
821	28-Apr-11	9	5	\$8.67	Yes	\$44.97	\$36.30
822	28-Apr-11	9	6	\$12.90	Yes	\$44.97	\$32.07
823	28-Apr-11	9	7	\$8.74	Yes	\$44.97	\$36.23
824	28-Apr-11	9	8	\$9.87	Yes	\$44.97	\$35.10
825	28-Apr-11	9	9	\$13.16	Yes	\$44.97	\$31.81
826	28-Apr-11	9	10	\$27.86	Yes	\$44.97	\$17.11
827	28-Apr-11	9	11	\$0.60	Yes	\$44.97	\$44.37
828	28-Apr-11	9	12	-\$0.01	Yes	\$44.97	\$44.98
829	28-Apr-11	10	1	\$0.00	Yes	\$44.97	\$44.97
830	28-Apr-11	10	2	-\$0.04	Yes	\$44.97	\$45.01
831	28-Apr-11	10	3	-\$0.04	Yes	\$44.97	\$45.01
832	28-Apr-11	10	4	-\$0.01	Yes	\$44.97	\$44.98
833	28-Apr-11	10	5	-\$0.01	Yes	\$44.97	\$44.98
834	28-Apr-11	10	6	-\$0.01	Yes	\$44.97	\$44.98
835	28-Apr-11	10	7	\$0.02	Yes	\$44.97	\$44.95
836	28-Apr-11	10	8	\$0.61	Yes	\$44.97	\$44.36
837	28-Apr-11	10	9	\$0.61	Yes	\$44.97	\$44.36
838	28-Apr-11	10	10	\$0.61	Yes	\$44.97	\$44.36
839	28-Apr-11	10	11	\$0.61	Yes	\$44.97	\$44.36
840	28-Apr-11	10	12	\$0.01	Yes	\$44.97	\$44.96
841	28-Apr-11	11	1	\$0.00	Yes	\$44.97	\$44.97
842	28-Apr-11	11	2	-\$0.01	Yes	\$44.97	\$44.98
843	28-Apr-11	11	3	-\$0.01	Yes	\$44.97	\$44.98
844	28-Apr-11	11	4	-\$0.01	Yes	\$44.97	\$44.98
845	28-Apr-11	11	5	\$0.02	Yes	\$44.97	\$44.95
846	28-Apr-11	11	6	\$0.18	Yes	\$44.97	\$44.79
847	28-Apr-11	11	7	\$0.18	Yes	\$44.97	\$44.79
848	28-Apr-11	11	8	\$0.18	Yes	\$44.97	\$44.79
849	28-Apr-11	11	9	\$0.18	Yes	\$44.97	\$44.79
850	28-Apr-11	11	10	\$0.18	Yes	\$44.97	\$44.79
851	28-Apr-11	11	11	\$0.18	Yes	\$44.97	\$44.79
852	28-Apr-11	11	12	\$0.18	Yes	\$44.97	\$44.79
853	28-Apr-11	12	1	\$0.01	Yes	\$44.97	\$44.96

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
854	28-Apr-11	12	2	-\$0.04	Yes	\$44.97	\$45.01
855	28-Apr-11	12	3	-\$0.04	Yes	\$44.97	\$45.01
856	28-Apr-11	12	4	-\$0.04	Yes	\$44.97	\$45.01
857	28-Apr-11	12	5	\$0.20	Yes	\$44.97	\$44.77
858	28-Apr-11	12	6	\$0.33	Yes	\$44.97	\$44.64
859	28-Apr-11	12	7	\$2.36	Yes	\$44.97	\$42.61
860	28-Apr-11	12	8	-\$0.39	Yes	\$44.97	\$45.36
861	28-Apr-11	12	9	-\$0.46	Yes	\$44.97	\$45.43
862	28-Apr-11	12	10	-\$6.09	Yes	\$44.97	\$51.06
863	28-Apr-11	12	11	-\$0.81	Yes	\$44.97	\$45.78
864	28-Apr-11	12	12	-\$5.81	Yes	\$44.97	\$50.78
865	28-Apr-11	13	1	-\$0.82	Yes	\$44.97	\$45.79
866	28-Apr-11	13	2	-\$0.70	Yes	\$44.97	\$45.67
867	28-Apr-11	13	3	\$0.14	Yes	\$44.97	\$44.83
868	28-Apr-11	13	4	-\$0.69	Yes	\$44.97	\$45.66
869	28-Apr-11	13	5	-\$0.69	Yes	\$44.97	\$45.66
870	28-Apr-11	13	6	-\$0.80	Yes	\$44.97	\$45.77
871	28-Apr-11	13	7	-\$28.08	Yes	\$44.97	\$73.05
872	28-Apr-11	13	8	-\$30.01	Yes	\$44.97	\$74.98
873	28-Apr-11	13	9	-\$30.00	Yes	\$44.97	\$74.97
874	28-Apr-11	13	10	-\$30.01	Yes	\$44.97	\$74.98
875	28-Apr-11	13	11	-\$28.91	Yes	\$44.97	\$73.88
876	28-Apr-11	13	12	-\$5.54	Yes	\$44.97	\$50.51
877	28-Apr-11	14	1	-\$1.23	Yes	\$44.97	\$46.20
878	28-Apr-11	14	2	-\$0.09	Yes	\$44.97	\$45.06
879	28-Apr-11	14	3	\$0.00	Yes	\$44.97	\$44.97
880	28-Apr-11	14	4	-\$0.97	Yes	\$44.97	\$45.94
881	28-Apr-11	14	5	-\$0.97	Yes	\$44.97	\$45.94
882	28-Apr-11	14	6	-\$0.97	Yes	\$44.97	\$45.94
883	28-Apr-11	14	7	-\$0.97	Yes	\$44.97	\$45.94
884	28-Apr-11	14	8	-\$28.98	Yes	\$44.97	\$73.95
885	28-Apr-11	14	9	-\$29.51	Yes	\$44.97	\$74.48
886	28-Apr-11	14	10	-\$2.07	Yes	\$44.97	\$47.04
887	28-Apr-11	14	11	\$0.18	Yes	\$44.97	\$44.79
888	28-Apr-11	14	12	\$0.56	Yes	\$44.97	\$44.41
889	28-Apr-11	15	1	-\$0.12	Yes	\$44.97	\$45.09
890	28-Apr-11	15	2	\$0.16	Yes	\$44.97	\$44.81
891	28-Apr-11	15	3	\$0.17	Yes	\$44.97	\$44.80
892	28-Apr-11	15	4	-\$0.16	Yes	\$44.97	\$45.13
893	28-Apr-11	15	5	-\$0.34	Yes	\$44.97	\$45.31
894	28-Apr-11	15	6	-\$0.33	Yes	\$44.97	\$45.30
895	28-Apr-11	15	7	-\$0.27	Yes	\$44.97	\$45.24
896	28-Apr-11	15	8	-\$0.40	Yes	\$44.97	\$45.37
897	28-Apr-11	15	9	-\$0.66	Yes	\$44.97	\$45.63
898	28-Apr-11	15	10	-\$0.79	Yes	\$44.97	\$45.76

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
899	28-Apr-11	15	11	-\$0.68	Yes	\$44.97	\$45.65
900	28-Apr-11	15	12	-\$0.41	Yes	\$44.97	\$45.38
901	28-Apr-11	16	1	-\$5.36	Yes	\$44.97	\$50.33
902	28-Apr-11	16	2	-\$0.53	Yes	\$44.97	\$45.50
903	28-Apr-11	16	3	-\$0.41	Yes	\$44.97	\$45.38
904	28-Apr-11	16	4	-\$0.37	Yes	\$44.97	\$45.34
905	28-Apr-11	16	5	-\$0.37	Yes	\$44.97	\$45.34
906	28-Apr-11	16	6	-\$0.38	Yes	\$44.97	\$45.35
907	28-Apr-11	16	7	-\$0.44	Yes	\$44.97	\$45.41
908	28-Apr-11	16	8	-\$0.44	Yes	\$44.97	\$45.41
909	28-Apr-11	16	9	-\$0.43	Yes	\$44.97	\$45.40
910	28-Apr-11	16	10	-\$0.11	Yes	\$44.97	\$45.08
911	28-Apr-11	16	11	\$0.32	Yes	\$44.97	\$44.65
912	28-Apr-11	16	12	-\$0.02	Yes	\$44.97	\$44.99
913	28-Apr-11	17	1	\$0.25	Yes	\$44.97	\$44.72
914	28-Apr-11	17	2	\$0.53	Yes	\$44.97	\$44.44
915	28-Apr-11	17	3	\$0.88	Yes	\$44.97	\$44.09
916	28-Apr-11	17	4	\$0.81	Yes	\$44.97	\$44.16
917	28-Apr-11	17	5	\$0.81	Yes	\$44.97	\$44.16
918	28-Apr-11	17	6	\$11.37	Yes	\$44.97	\$33.60
919	28-Apr-11	17	7	-\$2.62	Yes	\$44.97	\$47.59
920	28-Apr-11	17	8	-\$37.26	Yes	\$44.97	\$82.23
921	28-Apr-11	17	9	-\$37.25	Yes	\$44.97	\$82.22
922	28-Apr-11	17	10	-\$0.25	Yes	\$44.97	\$45.22
923	28-Apr-11	17	11	\$6.10	Yes	\$44.97	\$38.87
924	28-Apr-11	17	12	\$6.10	Yes	\$44.97	\$38.87
925	28-Apr-11	18	1	\$29.10	Yes	\$44.97	\$15.87
926	28-Apr-11	18	2	\$29.72	Yes	\$44.97	\$15.25
927	28-Apr-11	18	3	\$31.34	Yes	\$44.97	\$13.63
928	28-Apr-11	18	4	\$0.82	Yes	\$44.97	\$44.15
929	28-Apr-11	18	5	\$28.37	Yes	\$44.97	\$16.60
930	28-Apr-11	18	6	\$0.63	Yes	\$44.97	\$44.34
931	28-Apr-11	18	7	\$29.75	Yes	\$44.97	\$15.22
932	28-Apr-11	18	8	\$29.49	Yes	\$44.97	\$15.48
933	28-Apr-11	18	9	\$29.49	Yes	\$44.97	\$15.48
934	28-Apr-11	18	10	\$0.35	Yes	\$44.97	\$44.62
935	28-Apr-11	18	11	\$0.53	Yes	\$44.97	\$44.44
936	28-Apr-11	18	12	\$0.91	Yes	\$44.97	\$44.06
937	28-Apr-11	19	1	-\$0.70	Yes	\$44.97	\$45.67
938	28-Apr-11	19	2	-\$0.75	Yes	\$44.97	\$45.72
939	28-Apr-11	19	3	-\$0.75	Yes	\$44.97	\$45.72
940	28-Apr-11	19	4	-\$0.80	Yes	\$44.97	\$45.77
941	28-Apr-11	19	5	-\$0.82	Yes	\$44.97	\$45.79
942	28-Apr-11	19	6	-\$0.81	Yes	\$44.97	\$45.78
943	28-Apr-11	19	7	-\$0.93	Yes	\$44.97	\$45.90

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944	28-Apr-11	19	8	-\$1.25	Yes	\$44.97	\$46.22
945	28-Apr-11	19	9	-\$1.29	Yes	\$44.97	\$46.26
946	28-Apr-11	19	10	-\$0.02	Yes	\$44.97	\$44.99
947	28-Apr-11	19	11	-\$0.25	Yes	\$44.97	\$45.22
948	28-Apr-11	19	12	-\$0.25	Yes	\$44.97	\$45.22
949	28-Apr-11	20	1	-\$1.03	Yes	\$44.97	\$46.00
950	28-Apr-11	20	2	-\$6.01	Yes	\$44.97	\$50.98
951	28-Apr-11	20	3	-\$1.05	Yes	\$44.97	\$46.02
952	28-Apr-11	20	4	-\$0.04	Yes	\$44.97	\$45.01
953	28-Apr-11	20	5	\$0.00	Yes	\$44.97	\$44.97
954	28-Apr-11	20	6	\$0.00	Yes	\$44.97	\$44.97
955	28-Apr-11	20	7	\$8.17	Yes	\$44.97	\$36.80
956	28-Apr-11	20	8	\$28.77	Yes	\$44.97	\$16.20
957	28-Apr-11	20	9	\$32.74	Yes	\$44.97	\$12.23
958	28-Apr-11	20	10	\$37.43	Yes	\$44.97	\$7.54
959	28-Apr-11	20	11	\$37.43	Yes	\$44.97	\$7.54
960	28-Apr-11	20	12	\$77.58	Yes	\$44.97	-\$32.61
961	28-Apr-11	21	1	\$78.93	Yes	\$44.97	-\$33.96
962	28-Apr-11	21	2	\$83.95	Yes	\$44.97	-\$38.98
963	28-Apr-11	21	3	\$30.33	Yes	\$44.97	\$14.64
964	28-Apr-11	21	4	\$78.52	Yes	\$44.97	-\$33.55
965	28-Apr-11	21	5	\$78.52	Yes	\$44.97	-\$33.55
966	28-Apr-11	21	6	\$76.60	Yes	\$44.97	-\$31.63
967	28-Apr-11	21	7	\$48.00	Yes	\$44.97	-\$3.03
968	28-Apr-11	21	8	\$48.00	Yes	\$44.97	-\$3.03
969	28-Apr-11	21	9	\$41.98	Yes	\$44.97	\$2.99
970	28-Apr-11	21	10	\$39.73	Yes	\$44.97	\$5.24
971	28-Apr-11	21	11	\$30.23	Yes	\$44.97	\$14.74
972	28-Apr-11	21	12	\$30.23	Yes	\$44.97	\$14.74
973	28-Apr-11	22	1	\$30.30	Yes	\$44.97	\$14.67
974	28-Apr-11	22	2	\$41.83	Yes	\$44.97	\$3.14
975	28-Apr-11	22	3	\$41.83	Yes	\$44.97	\$3.14
976	28-Apr-11	22	4	\$32.39	Yes	\$44.97	\$12.58
977	28-Apr-11	22	5	\$47.90	Yes	\$44.97	-\$2.93
978	28-Apr-11	22	6	\$47.92	Yes	\$44.97	-\$2.95
979	28-Apr-11	22	7	\$37.59	Yes	\$44.97	\$7.38
980	28-Apr-11	22	8	\$35.74	Yes	\$44.97	\$9.23
981	28-Apr-11	22	9	\$30.31	Yes	\$44.97	\$14.66
982	28-Apr-11	22	10	\$37.90	Yes	\$44.97	\$7.07
983	28-Apr-11	22	11	\$32.55	Yes	\$44.97	\$12.42
984	28-Apr-11	22	12	\$35.50	Yes	\$44.97	\$9.47
985	28-Apr-11	23	1	\$33.64	Yes	\$44.97	\$11.33
986	28-Apr-11	23	2	\$44.82	Yes	\$44.97	\$0.15
987	28-Apr-11	23	3	\$39.90	Yes	\$44.97	\$5.07
988	28-Apr-11	23	4	\$47.40	Yes	\$44.97	-\$2.43

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
989	28-Apr-11	23	5	\$45.81	Yes	\$44.97	-\$0.84
990	28-Apr-11	23	6	\$41.75	Yes	\$44.97	\$3.22
991	28-Apr-11	23	7	\$35.82	Yes	\$44.97	\$9.15
992	28-Apr-11	23	8	\$35.82	Yes	\$44.97	\$9.15
993	28-Apr-11	23	9	\$31.68	Yes	\$44.97	\$13.29
994	28-Apr-11	23	10	\$17.43	Yes	\$44.97	\$27.54
995	28-Apr-11	23	11	\$28.52	Yes	\$44.97	\$16.45
996	28-Apr-11	23	12	\$19.96	Yes	\$44.97	\$25.01
997	28-Apr-11	24	1	\$32.87	Yes	\$45.05	\$12.18
998	28-Apr-11	24	2	\$36.20	Yes	\$45.05	\$8.85
999	28-Apr-11	24	3	\$36.20	Yes	\$45.05	\$8.85
1000	28-Apr-11	24	4	\$32.02	Yes	\$45.05	\$13.03
1001	28-Apr-11	24	5	\$32.02	Yes	\$45.05	\$13.03
1002	28-Apr-11	24	6	\$32.02	Yes	\$45.05	\$13.03
1003	28-Apr-11	24	7	\$31.95	Yes	\$45.05	\$13.10
1004	28-Apr-11	24	8	\$14.77	Yes	\$45.05	\$30.28
1005	28-Apr-11	24	9	\$14.77	Yes	\$45.05	\$30.28
1006	28-Apr-11	24	10	\$10.01	Yes	\$45.05	\$35.04
1007	28-Apr-11	24	11	\$10.01	Yes	\$45.05	\$35.04
1008	28-Apr-11	24	12	\$0.00	Yes	\$45.05	\$45.05
1009	29-Apr-11	1	1	-\$6.06	Yes	\$45.05	\$51.11
1010	29-Apr-11	1	2	-\$1.02	Yes	\$45.05	\$46.07
1011	29-Apr-11	1	3	-\$0.01	Yes	\$45.05	\$45.06
1012	29-Apr-11	1	4	-\$0.04	Yes	\$45.05	\$45.09
1013	29-Apr-11	1	5	-\$1.00	Yes	\$45.05	\$46.05
1014	29-Apr-11	1	6	-\$0.04	Yes	\$45.05	\$45.09
1015	29-Apr-11	1	7	-\$0.04	Yes	\$45.05	\$45.09
1016	29-Apr-11	1	8	-\$0.04	Yes	\$45.05	\$45.09
1017	29-Apr-11	1	9	-\$0.04	Yes	\$45.05	\$45.09
1018	29-Apr-11	1	10	-\$1.00	Yes	\$45.05	\$46.05
1019	29-Apr-11	1	11	-\$0.04	Yes	\$45.05	\$45.09
1020	29-Apr-11	1	12	-\$0.04	Yes	\$45.05	\$45.09
1021	29-Apr-11	2	1	-\$0.01	Yes	\$45.05	\$45.06
1022	29-Apr-11	2	2	\$10.05	Yes	\$45.05	\$35.00
1023	29-Apr-11	2	3	\$21.14	Yes	\$45.05	\$23.91
1024	29-Apr-11	2	4	\$21.11	Yes	\$45.05	\$23.94
1025	29-Apr-11	2	5	\$21.11	Yes	\$45.05	\$23.94
1026	29-Apr-11	2	6	\$21.11	Yes	\$45.05	\$23.94
1027	29-Apr-11	2	7	\$22.87	Yes	\$45.05	\$22.18
1028	29-Apr-11	2	8	\$25.85	Yes	\$45.05	\$19.20
1029	29-Apr-11	2	9	\$22.87	Yes	\$45.05	\$22.18
1030	29-Apr-11	2	10	\$21.16	Yes	\$45.05	\$23.89
1031	29-Apr-11	2	11	\$21.16	Yes	\$45.05	\$23.89
1032	29-Apr-11	2	12	\$21.16	Yes	\$45.05	\$23.89
1033	29-Apr-11	3	1	\$9.48	Yes	\$45.05	\$35.57

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1034	29-Apr-11	3	2	\$9.48	Yes	\$45.05	\$35.57
1035	29-Apr-11	3	3	\$14.24	Yes	\$45.05	\$30.81
1036	29-Apr-11	3	4	\$9.61	Yes	\$45.05	\$35.44
1037	29-Apr-11	3	5	\$27.16	Yes	\$45.05	\$17.89
1038	29-Apr-11	3	6	\$36.31	Yes	\$45.05	\$8.74
1039	29-Apr-11	3	7	\$27.41	Yes	\$45.05	\$17.64
1040	29-Apr-11	3	8	\$27.41	Yes	\$45.05	\$17.64
1041	29-Apr-11	3	9	\$27.41	Yes	\$45.05	\$17.64
1042	29-Apr-11	3	10	\$28.09	Yes	\$45.05	\$16.96
1043	29-Apr-11	3	11	\$36.63	Yes	\$45.05	\$8.42
1044	29-Apr-11	3	12	\$27.54	Yes	\$45.05	\$17.51
1045	29-Apr-11	4	1	\$27.63	Yes	\$45.05	\$17.42
1046	29-Apr-11	4	2	\$27.63	Yes	\$45.05	\$17.42
1047	29-Apr-11	4	3	\$27.63	Yes	\$45.05	\$17.42
1048	29-Apr-11	4	4	\$27.30	Yes	\$45.05	\$17.75
1049	29-Apr-11	4	5	\$27.30	Yes	\$45.05	\$17.75
1050	29-Apr-11	4	6	\$27.30	Yes	\$45.05	\$17.75
1051	29-Apr-11	4	7	\$27.26	Yes	\$45.05	\$17.79
1052	29-Apr-11	4	8	\$27.26	Yes	\$45.05	\$17.79
1053	29-Apr-11	4	9	\$27.26	Yes	\$45.05	\$17.79
1054	29-Apr-11	4	10	\$27.48	Yes	\$45.05	\$17.57
1055	29-Apr-11	4	11	\$27.48	Yes	\$45.05	\$17.57
1056	29-Apr-11	4	12	\$27.48	Yes	\$45.05	\$17.57
1057	29-Apr-11	5	1	\$20.37	Yes	\$45.05	\$24.68
1058	29-Apr-11	5	2	\$20.37	Yes	\$45.05	\$24.68
1059	29-Apr-11	5	3	\$20.37	Yes	\$45.05	\$24.68
1060	29-Apr-11	5	4	\$20.24	Yes	\$45.05	\$24.81
1061	29-Apr-11	5	5	\$20.24	Yes	\$45.05	\$24.81
1062	29-Apr-11	5	6	\$26.05	Yes	\$45.05	\$19.00
1063	29-Apr-11	5	7	\$38.46	Yes	\$45.05	\$6.59
1064	29-Apr-11	5	8	\$36.42	Yes	\$45.05	\$8.63
1065	29-Apr-11	5	9	\$46.70	Yes	\$45.05	-\$1.65
1066	29-Apr-11	5	10	\$48.63	Yes	\$45.05	-\$3.58
1067	29-Apr-11	5	11	\$65.06	Yes	\$45.05	-\$20.01
1068	29-Apr-11	5	12	\$20.10	Yes	\$45.05	\$24.95
1069	29-Apr-11	6	1	\$10.05	Yes	\$45.05	\$35.00
1070	29-Apr-11	6	2	\$10.05	Yes	\$45.05	\$35.00
1071	29-Apr-11	6	3	-\$0.01	Yes	\$45.05	\$45.06
1072	29-Apr-11	6	4	-\$6.06	Yes	\$45.05	\$51.11
1073	29-Apr-11	6	5	-\$1.01	Yes	\$45.05	\$46.06
1074	29-Apr-11	6	6	-\$0.01	Yes	\$45.05	\$45.06
1075	29-Apr-11	6	7	-\$0.01	Yes	\$45.05	\$45.06
1076	29-Apr-11	6	8	\$10.00	Yes	\$45.05	\$35.05
1077	29-Apr-11	6	9	\$19.92	Yes	\$45.05	\$25.13
1078	29-Apr-11	6	10	\$25.60	Yes	\$45.05	\$19.45

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1079	29-Apr-11	6	11	\$34.78	Yes	\$45.05	\$10.27
1080	29-Apr-11	6	12	\$20.18	Yes	\$45.05	\$24.87
1081	29-Apr-11	7	1	-\$0.01	Yes	\$45.05	\$45.06
1082	29-Apr-11	7	2	-\$0.01	Yes	\$45.05	\$45.06
1083	29-Apr-11	7	3	\$21.84	Yes	\$45.05	\$23.21
1084	29-Apr-11	7	4	\$0.45	Yes	\$45.05	\$44.60
1085	29-Apr-11	7	5	\$8.30	Yes	\$45.05	\$36.75
1086	29-Apr-11	7	6	\$8.30	Yes	\$45.05	\$36.75
1087	29-Apr-11	7	7	\$0.44	Yes	\$45.05	\$44.61
1088	29-Apr-11	7	8	\$0.44	Yes	\$45.05	\$44.61
1089	29-Apr-11	7	9	\$8.22	Yes	\$45.05	\$36.83
1090	29-Apr-11	7	10	-\$0.01	Yes	\$45.05	\$45.06
1091	29-Apr-11	7	11	\$8.36	Yes	\$45.05	\$36.69
1092	29-Apr-11	7	12	\$16.73	Yes	\$45.05	\$28.32
1093	29-Apr-11	8	1	-\$0.01	Yes	\$45.05	\$45.06
1094	29-Apr-11	8	2	-\$0.01	Yes	\$45.05	\$45.06
1095	29-Apr-11	8	3	-\$0.04	Yes	\$45.05	\$45.09
1096	29-Apr-11	8	4	\$0.00	Yes	\$45.05	\$45.05
1097	29-Apr-11	8	5	\$0.46	Yes	\$45.05	\$44.59
1098	29-Apr-11	8	6	\$21.77	Yes	\$45.05	\$23.28
1099	29-Apr-11	8	7	\$21.60	Yes	\$45.05	\$23.45
1100	29-Apr-11	8	8	\$22.09	Yes	\$45.05	\$22.97
1101	29-Apr-11	8	9	\$8.39	Yes	\$45.05	\$36.66
1102	29-Apr-11	8	10	\$21.72	Yes	\$45.05	\$23.33
1103	29-Apr-11	8	11	\$22.20	Yes	\$45.05	\$22.85
1104	29-Apr-11	8	12	\$24.77	Yes	\$45.05	\$20.28
1105	29-Apr-11	9	1	\$26.10	Yes	\$45.05	\$18.95
1106	29-Apr-11	9	2	\$26.10	Yes	\$45.05	\$18.95
1107	29-Apr-11	9	3	\$29.93	Yes	\$45.05	\$15.12
1108	29-Apr-11	9	4	\$28.70	Yes	\$45.05	\$16.35
1109	29-Apr-11	9	5	\$25.66	Yes	\$45.05	\$19.39
1110	29-Apr-11	9	6	\$29.65	Yes	\$45.05	\$15.40
1111	29-Apr-11	9	7	\$30.04	Yes	\$45.05	\$15.01
1112	29-Apr-11	9	8	\$30.04	Yes	\$45.05	\$15.01
1113	29-Apr-11	9	9	\$30.04	Yes	\$45.05	\$15.01
1114	29-Apr-11	9	10	\$29.75	Yes	\$45.05	\$15.30
1115	29-Apr-11	9	11	\$20.86	Yes	\$45.05	\$24.19
1116	29-Apr-11	9	12	-\$0.02	Yes	\$45.05	\$45.07
1117	29-Apr-11	10	1	-\$0.04	Yes	\$45.05	\$45.09
1118	29-Apr-11	10	2	-\$1.03	Yes	\$45.05	\$46.08
1119	29-Apr-11	10	3	-\$1.03	Yes	\$45.05	\$46.08
1120	29-Apr-11	10	4	-\$1.00	Yes	\$45.05	\$46.05
1121	29-Apr-11	10	5	-\$1.00	Yes	\$45.05	\$46.05
1122	29-Apr-11	10	6	-\$0.04	Yes	\$45.05	\$45.09
1123	29-Apr-11	10	7	-\$1.01	Yes	\$45.05	\$46.06

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1124	29-Apr-11	10	8	-\$0.04	Yes	\$45.05	\$45.09
1125	29-Apr-11	10	9	-\$0.04	Yes	\$45.05	\$45.09
1126	29-Apr-11	10	10	-\$0.01	Yes	\$45.05	\$45.06
1127	29-Apr-11	10	11	-\$0.01	Yes	\$45.05	\$45.06
1128	29-Apr-11	10	12	-\$0.01	Yes	\$45.05	\$45.06
1129	29-Apr-11	11	1	\$0.02	Yes	\$45.05	\$45.03
1130	29-Apr-11	11	2	\$0.00	Yes	\$45.05	\$45.05
1131	29-Apr-11	11	3	\$0.02	Yes	\$45.05	\$45.03
1132	29-Apr-11	11	4	\$0.51	Yes	\$45.05	\$44.54
1133	29-Apr-11	11	5	\$0.51	Yes	\$45.05	\$44.54
1134	29-Apr-11	11	6	\$21.23	Yes	\$45.05	\$23.82
1135	29-Apr-11	11	7	\$21.06	Yes	\$45.05	\$23.99
1136	29-Apr-11	11	8	\$28.75	Yes	\$45.05	\$16.30
1137	29-Apr-11	11	9	\$28.75	Yes	\$45.05	\$16.30
1138	29-Apr-11	11	10	\$30.23	Yes	\$45.05	\$14.82
1139	29-Apr-11	11	11	\$30.23	Yes	\$45.05	\$14.82
1140	29-Apr-11	11	12	\$30.23	Yes	\$45.05	\$14.82
1141	29-Apr-11	12	1	\$30.23	Yes	\$45.05	\$14.82
1142	29-Apr-11	12	2	\$36.95	Yes	\$45.05	\$8.10
1143	29-Apr-11	12	3	\$30.23	Yes	\$45.05	\$14.82
1144	29-Apr-11	12	4	\$84.49	Yes	\$45.05	-\$39.44
1145	29-Apr-11	12	5	\$84.49	Yes	\$45.05	-\$39.44
1146	29-Apr-11	12	6	\$41.49	Yes	\$45.05	\$3.56
1147	29-Apr-11	12	7	\$30.15	Yes	\$45.05	\$14.90
1148	29-Apr-11	12	8	\$20.88	Yes	\$45.05	\$24.17
1149	29-Apr-11	12	9	\$8.52	Yes	\$45.05	\$36.53
1150	29-Apr-11	12	10	\$8.59	Yes	\$45.05	\$36.46
1151	29-Apr-11	12	11	\$28.78	Yes	\$45.05	\$16.27
1152	29-Apr-11	12	12	\$32.13	Yes	\$45.05	\$12.92
1153	29-Apr-11	13	1	\$29.91	Yes	\$45.05	\$15.14
1154	29-Apr-11	13	2	\$59.69	Yes	\$45.05	-\$14.64
1155	29-Apr-11	13	3	\$74.77	Yes	\$45.05	-\$29.72
1156	29-Apr-11	13	4	\$45.02	Yes	\$45.05	\$0.03
1157	29-Apr-11	13	5	\$45.02	Yes	\$45.05	\$0.03
1158	29-Apr-11	13	6	\$49.16	Yes	\$45.05	-\$4.11
1159	29-Apr-11	13	7	\$74.47	Yes	\$45.05	-\$29.42
1160	29-Apr-11	13	8	\$74.47	Yes	\$45.05	-\$29.42
1161	29-Apr-11	13	9	\$74.47	Yes	\$45.05	-\$29.42
1162	29-Apr-11	13	10	\$74.82	Yes	\$45.05	-\$29.77
1163	29-Apr-11	13	11	\$43.93	Yes	\$45.05	\$1.12
1164	29-Apr-11	13	12	\$0.00	Yes	\$45.05	\$45.05
1165	29-Apr-11	14	1	-\$0.02	Yes	\$45.05	\$45.07
1166	29-Apr-11	14	2	-\$0.04	Yes	\$45.05	\$45.09
1167	29-Apr-11	14	3	-\$0.04	Yes	\$45.05	\$45.09
1168	29-Apr-11	14	4	-\$0.02	Yes	\$45.05	\$45.07

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1169	29-Apr-11	14	5	\$0.57	Yes	\$45.05	\$44.48
1170	29-Apr-11	14	6	\$0.57	Yes	\$45.05	\$44.48
1171	29-Apr-11	14	7	\$0.56	Yes	\$45.05	\$44.49
1172	29-Apr-11	14	8	\$8.20	Yes	\$45.05	\$36.85
1173	29-Apr-11	14	9	\$8.20	Yes	\$45.05	\$36.85
1174	29-Apr-11	14	10	\$0.57	Yes	\$45.05	\$44.48
1175	29-Apr-11	14	11	\$0.57	Yes	\$45.05	\$44.48
1176	29-Apr-11	14	12	\$0.57	Yes	\$45.05	\$44.48
1177	29-Apr-11	15	1	-\$0.01	Yes	\$45.05	\$45.06
1178	29-Apr-11	15	2	-\$0.01	Yes	\$45.05	\$45.06
1179	29-Apr-11	15	3	-\$0.01	Yes	\$45.05	\$45.06
1180	29-Apr-11	15	4	\$0.00	Yes	\$45.05	\$45.05
1181	29-Apr-11	15	5	-\$0.01	Yes	\$45.05	\$45.06
1182	29-Apr-11	15	6	-\$0.01	Yes	\$45.05	\$45.06
1183	29-Apr-11	15	7	-\$0.01	Yes	\$45.05	\$45.06
1184	29-Apr-11	15	8	-\$0.01	Yes	\$45.05	\$45.06
1185	29-Apr-11	15	9	-\$0.01	Yes	\$45.05	\$45.06
1186	29-Apr-11	15	10	-\$0.01	Yes	\$45.05	\$45.06
1187	29-Apr-11	15	11	-\$0.01	Yes	\$45.05	\$45.06
1188	29-Apr-11	15	12	\$0.00	Yes	\$45.05	\$45.05
1189	29-Apr-11	16	1	\$20.08	Yes	\$45.05	\$24.97
1190	29-Apr-11	16	2	\$20.08	Yes	\$45.05	\$24.97
1191	29-Apr-11	16	3	\$27.78	Yes	\$45.05	\$17.27
1192	29-Apr-11	16	4	\$27.58	Yes	\$45.05	\$17.47
1193	29-Apr-11	16	5	\$27.58	Yes	\$45.05	\$17.47
1194	29-Apr-11	16	6	\$27.58	Yes	\$45.05	\$17.47
1195	29-Apr-11	16	7	\$19.94	Yes	\$45.05	\$25.11
1196	29-Apr-11	16	8	\$19.94	Yes	\$45.05	\$25.11
1197	29-Apr-11	16	9	\$8.13	Yes	\$45.05	\$36.92
1198	29-Apr-11	16	10	\$0.00	Yes	\$45.05	\$45.05
1199	29-Apr-11	16	11	\$0.00	Yes	\$45.05	\$45.05
1200	29-Apr-11	16	12	\$0.02	Yes	\$45.05	\$45.03
1201	29-Apr-11	17	1	\$20.17	Yes	\$45.05	\$24.88
1202	29-Apr-11	17	2	\$27.58	Yes	\$45.05	\$17.47
1203	29-Apr-11	17	3	\$20.17	Yes	\$45.05	\$24.88
1204	29-Apr-11	17	4	\$20.06	Yes	\$45.05	\$24.99
1205	29-Apr-11	17	5	\$8.18	Yes	\$45.05	\$36.87
1206	29-Apr-11	17	6	\$8.18	Yes	\$45.05	\$36.87
1207	29-Apr-11	17	7	-\$0.01	Yes	\$45.05	\$45.06
1208	29-Apr-11	17	8	\$0.00	Yes	\$45.05	\$45.05
1209	29-Apr-11	17	9	-\$0.04	Yes	\$45.05	\$45.09
1210	29-Apr-11	17	10	-\$0.04	Yes	\$45.05	\$45.09
1211	29-Apr-11	17	11	-\$0.04	Yes	\$45.05	\$45.09
1212	29-Apr-11	17	12	-\$0.04	Yes	\$45.05	\$45.09
1213	29-Apr-11	18	1	\$0.00	Yes	\$45.05	\$45.05

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1214	29-Apr-11	18	2	-\$0.01	Yes	\$45.05	\$45.06
1215	29-Apr-11	18	3	-\$0.01	Yes	\$45.05	\$45.06
1216	29-Apr-11	18	4	-\$0.01	Yes	\$45.05	\$45.06
1217	29-Apr-11	18	5	-\$0.04	Yes	\$45.05	\$45.09
1218	29-Apr-11	18	6	-\$0.04	Yes	\$45.05	\$45.09
1219	29-Apr-11	18	7	-\$0.04	Yes	\$45.05	\$45.09
1220	29-Apr-11	18	8	-\$0.04	Yes	\$45.05	\$45.09
1221	29-Apr-11	18	9	-\$0.04	Yes	\$45.05	\$45.09
1222	29-Apr-11	18	10	-\$0.04	Yes	\$45.05	\$45.09
1223	29-Apr-11	18	11	-\$0.98	Yes	\$45.05	\$46.03
1224	29-Apr-11	18	12	-\$0.04	Yes	\$45.05	\$45.09
1225	29-Apr-11	19	1	-\$0.04	Yes	\$45.05	\$45.09
1226	29-Apr-11	19	2	-\$0.01	Yes	\$45.05	\$45.06
1227	29-Apr-11	19	3	-\$0.04	Yes	\$45.05	\$45.09
1228	29-Apr-11	19	4	-\$0.04	Yes	\$45.05	\$45.09
1229	29-Apr-11	19	5	-\$0.01	Yes	\$45.05	\$45.06
1230	29-Apr-11	19	6	-\$0.01	Yes	\$45.05	\$45.06
1231	29-Apr-11	19	7	-\$0.04	Yes	\$45.05	\$45.09
1232	29-Apr-11	19	8	-\$0.01	Yes	\$45.05	\$45.06
1233	29-Apr-11	19	9	-\$0.01	Yes	\$45.05	\$45.06
1234	29-Apr-11	19	10	-\$0.01	Yes	\$45.05	\$45.06
1235	29-Apr-11	19	11	-\$0.01	Yes	\$45.05	\$45.06
1236	29-Apr-11	19	12	-\$0.04	Yes	\$45.05	\$45.09
1237	29-Apr-11	20	1	-\$0.04	Yes	\$45.05	\$45.09
1238	29-Apr-11	20	2	-\$0.04	Yes	\$45.05	\$45.09
1239	29-Apr-11	20	3	-\$0.04	Yes	\$45.05	\$45.09
1240	29-Apr-11	20	4	-\$0.01	Yes	\$45.05	\$45.06
1241	29-Apr-11	20	5	\$0.00	Yes	\$45.05	\$45.05
1242	29-Apr-11	20	6	\$21.11	Yes	\$45.05	\$23.94
1243	29-Apr-11	20	7	\$29.65	Yes	\$45.05	\$15.40
1244	29-Apr-11	20	8	\$34.56	Yes	\$45.05	\$10.49
1245	29-Apr-11	20	9	\$52.60	Yes	\$45.05	-\$7.55
1246	29-Apr-11	20	10	\$48.89	Yes	\$45.05	-\$3.84
1247	29-Apr-11	20	11	\$52.19	Yes	\$45.05	-\$7.14
1248	29-Apr-11	20	12	\$47.69	Yes	\$45.05	-\$2.64
1249	29-Apr-11	21	1	\$51.01	Yes	\$45.05	-\$5.96
1250	29-Apr-11	21	2	\$43.52	Yes	\$45.05	\$1.53
1251	29-Apr-11	21	3	\$45.40	Yes	\$45.05	-\$0.35
1252	29-Apr-11	21	4	\$43.26	Yes	\$45.05	\$1.79
1253	29-Apr-11	21	5	\$45.12	Yes	\$45.05	-\$0.07
1254	29-Apr-11	21	6	\$47.18	Yes	\$45.05	-\$2.13
1255	29-Apr-11	21	7	\$46.76	Yes	\$45.05	-\$1.71
1256	29-Apr-11	21	8	\$47.13	Yes	\$45.05	-\$2.08
1257	29-Apr-11	21	9	\$46.26	Yes	\$45.05	-\$1.21
1258	29-Apr-11	21	10	\$46.56	Yes	\$45.05	-\$1.51

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1259	29-Apr-11	21	11	\$42.99	Yes	\$45.05	\$2.06
1260	29-Apr-11	21	12	\$42.99	Yes	\$45.05	\$2.06
1261	29-Apr-11	22	1	\$48.02	Yes	\$45.05	-\$2.97
1262	29-Apr-11	22	2	\$49.76	Yes	\$45.05	-\$4.71
1263	29-Apr-11	22	3	\$35.34	Yes	\$45.05	\$9.71
1264	29-Apr-11	22	4	\$42.76	Yes	\$45.05	\$2.29
1265	29-Apr-11	22	5	\$42.76	Yes	\$45.05	\$2.29
1266	29-Apr-11	22	6	\$44.37	Yes	\$45.05	\$0.68
1267	29-Apr-11	22	7	\$35.95	Yes	\$45.05	\$9.10
1268	29-Apr-11	22	8	\$29.77	Yes	\$45.05	\$15.28
1269	29-Apr-11	22	9	\$29.77	Yes	\$45.05	\$15.28
1270	29-Apr-11	22	10	\$29.74	Yes	\$45.05	\$15.31
1271	29-Apr-11	22	11	\$29.74	Yes	\$45.05	\$15.31
1272	29-Apr-11	22	12	\$29.74	Yes	\$45.05	\$15.31
1273	29-Apr-11	23	1	\$32.62	Yes	\$45.05	\$12.43
1274	29-Apr-11	23	2	\$35.67	Yes	\$45.05	\$9.38
1275	29-Apr-11	23	3	\$32.70	Yes	\$45.05	\$12.35
1276	29-Apr-11	23	4	\$35.70	Yes	\$45.05	\$9.35
1277	29-Apr-11	23	5	\$40.29	Yes	\$45.05	\$4.76
1278	29-Apr-11	23	6	\$35.70	Yes	\$45.05	\$9.35
1279	29-Apr-11	23	7	\$45.02	Yes	\$45.05	\$0.03
1280	29-Apr-11	23	8	\$45.04	Yes	\$45.05	\$0.01
1281	29-Apr-11	23	9	\$5.89	Yes	\$45.05	\$39.16
1282	30-Apr-11	9	1	-\$1.02	Yes	\$46.27	\$47.29
1283	30-Apr-11	9	2	-\$0.11	Yes	\$46.27	\$46.38
1284	30-Apr-11	9	3	-\$0.11	Yes	\$46.27	\$46.38
1285	30-Apr-11	9	4	-\$1.04	Yes	\$46.27	\$47.31
1286	30-Apr-11	9	5	-\$1.04	Yes	\$46.27	\$47.31
1287	30-Apr-11	9	6	-\$1.04	Yes	\$46.27	\$47.31
1288	30-Apr-11	9	7	-\$1.04	Yes	\$46.27	\$47.31
1289	30-Apr-11	9	8	-\$1.04	Yes	\$46.27	\$47.31
1290	30-Apr-11	9	9	-\$1.04	Yes	\$46.27	\$47.31
1291	30-Apr-11	9	10	-\$0.11	Yes	\$46.27	\$46.38
1292	30-Apr-11	9	11	-\$0.11	Yes	\$46.27	\$46.38
1293	30-Apr-11	9	12	-\$1.00	Yes	\$46.27	\$47.27
1294	30-Apr-11	10	1	-\$1.04	Yes	\$46.27	\$47.31
1295	30-Apr-11	10	2	-\$1.04	Yes	\$46.27	\$47.31
1296	30-Apr-11	10	3	-\$1.04	Yes	\$46.27	\$47.31
1297	30-Apr-11	10	4	-\$1.04	Yes	\$46.27	\$47.31
1298	30-Apr-11	10	5	-\$1.00	Yes	\$46.27	\$47.27
1299	30-Apr-11	10	6	-\$1.04	Yes	\$46.27	\$47.31
1300	30-Apr-11	10	7	-\$1.00	Yes	\$46.27	\$47.27
1301	30-Apr-11	10	8	-\$0.11	Yes	\$46.27	\$46.38
1302	30-Apr-11	10	9	-\$0.11	Yes	\$46.27	\$46.38
1303	30-Apr-11	10	10	-\$0.11	Yes	\$46.27	\$46.38

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1304	30-Apr-11	10	11	-\$0.11	Yes	\$46.27	\$46.38
1305	30-Apr-11	10	12	-\$0.11	Yes	\$46.27	\$46.38
1306	30-Apr-11	11	1	-\$1.00	Yes	\$46.27	\$47.27
1307	30-Apr-11	11	2	-\$1.00	Yes	\$46.27	\$47.27
1308	30-Apr-11	11	3	-\$1.00	Yes	\$46.27	\$47.27
1309	30-Apr-11	11	4	-\$1.04	Yes	\$46.27	\$47.31
1310	30-Apr-11	11	5	-\$1.01	Yes	\$46.27	\$47.28
1311	30-Apr-11	11	6	-\$1.01	Yes	\$46.27	\$47.28
1312	30-Apr-11	11	7	-\$0.11	Yes	\$46.27	\$46.38
1313	30-Apr-11	11	8	-\$0.11	Yes	\$46.27	\$46.38
1314	30-Apr-11	11	9	-\$0.11	Yes	\$46.27	\$46.38
1315	30-Apr-11	11	10	-\$0.11	Yes	\$46.27	\$46.38
1316	30-Apr-11	11	11	-\$0.11	Yes	\$46.27	\$46.38
1317	30-Apr-11	11	12	-\$0.01	Yes	\$46.27	\$46.28
1318	30-Apr-11	12	1	-\$0.01	Yes	\$46.27	\$46.28
1319	30-Apr-11	12	2	\$0.80	Yes	\$46.27	\$45.47
1320	30-Apr-11	12	3	\$8.49	Yes	\$46.27	\$37.78
1321	30-Apr-11	12	4	\$8.51	Yes	\$46.27	\$37.76
1322	30-Apr-11	12	5	\$8.51	Yes	\$46.27	\$37.76
1323	30-Apr-11	12	6	\$8.51	Yes	\$46.27	\$37.76
1324	30-Apr-11	12	7	\$8.40	Yes	\$46.27	\$37.87
1325	30-Apr-11	12	8	\$8.40	Yes	\$46.27	\$37.87
1326	30-Apr-11	12	9	\$22.22	Yes	\$46.27	\$24.05
1327	30-Apr-11	12	10	\$22.26	Yes	\$46.27	\$24.01
1328	30-Apr-11	12	11	\$22.26	Yes	\$46.27	\$24.01
1329	30-Apr-11	12	12	\$22.26	Yes	\$46.27	\$24.01
1330	30-Apr-11	13	1	\$27.61	Yes	\$46.27	\$18.66
1331	30-Apr-11	13	2	\$29.09	Yes	\$46.27	\$17.18
1332	30-Apr-11	13	3	\$30.05	Yes	\$46.27	\$16.22
1333	30-Apr-11	13	4	\$29.98	Yes	\$46.27	\$16.29
1334	30-Apr-11	13	5	\$29.98	Yes	\$46.27	\$16.29
1335	30-Apr-11	13	6	\$29.98	Yes	\$46.27	\$16.29
1336	30-Apr-11	13	7	\$27.41	Yes	\$46.27	\$18.86
1337	30-Apr-11	13	8	\$28.95	Yes	\$46.27	\$17.32
1338	30-Apr-11	13	9	\$29.91	Yes	\$46.27	\$16.36
1339	30-Apr-11	13	10	\$22.02	Yes	\$46.27	\$24.25
1340	30-Apr-11	13	11	\$22.03	Yes	\$46.27	\$24.24
1341	30-Apr-11	13	12	\$28.32	Yes	\$46.27	\$17.95
1342	30-Apr-11	14	1	\$29.76	Yes	\$46.27	\$16.51
1343	30-Apr-11	14	2	\$31.64	Yes	\$46.27	\$14.63
1344	30-Apr-11	14	3	\$37.09	Yes	\$46.27	\$9.18
1345	30-Apr-11	14	4	\$39.43	Yes	\$46.27	\$6.84
1346	30-Apr-11	14	5	\$39.40	Yes	\$46.27	\$6.87
1347	30-Apr-11	14	6	\$39.43	Yes	\$46.27	\$6.84
1348	30-Apr-11	14	7	\$20.83	Yes	\$46.27	\$25.44

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1349	30-Apr-11	14	8	\$21.87	Yes	\$46.27	\$24.40
1350	30-Apr-11	14	9	\$21.86	Yes	\$46.27	\$24.41
1351	30-Apr-11	14	10	\$33.01	Yes	\$46.27	\$13.26
1352	30-Apr-11	14	11	\$54.90	Yes	\$46.27	-\$8.63
1353	30-Apr-11	14	12	\$45.66	Yes	\$46.27	\$0.61
1354	30-Apr-11	15	1	\$29.81	Yes	\$46.27	\$16.46
1355	30-Apr-11	15	2	\$33.08	Yes	\$46.27	\$13.19
1356	30-Apr-11	15	3	\$33.11	Yes	\$46.27	\$13.16
1357	30-Apr-11	15	4	\$33.05	Yes	\$46.27	\$13.22
1358	30-Apr-11	15	5	\$33.07	Yes	\$46.27	\$13.20
1359	30-Apr-11	15	6	\$32.35	Yes	\$46.27	\$13.92
1360	30-Apr-11	15	7	\$37.13	Yes	\$46.27	\$9.14
1361	30-Apr-11	15	8	\$37.13	Yes	\$46.27	\$9.14
1362	30-Apr-11	15	9	\$39.78	Yes	\$46.27	\$6.49
1363	30-Apr-11	15	10	\$45.76	Yes	\$46.27	\$0.51
1364	30-Apr-11	15	11	\$37.15	Yes	\$46.27	\$9.12
1365	30-Apr-11	15	12	\$21.91	Yes	\$46.27	\$24.36
1366	30-Apr-11	16	1	\$21.91	Yes	\$46.27	\$24.36
1367	30-Apr-11	16	2	\$21.91	Yes	\$46.27	\$24.36
1368	30-Apr-11	16	3	\$21.91	Yes	\$46.27	\$24.36
1369	30-Apr-11	16	4	\$21.91	Yes	\$46.27	\$24.36
1370	30-Apr-11	16	5	\$21.91	Yes	\$46.27	\$24.36
1371	30-Apr-11	16	6	\$21.91	Yes	\$46.27	\$24.36
1372	30-Apr-11	16	7	\$21.86	Yes	\$46.27	\$24.41
1373	30-Apr-11	16	8	\$21.86	Yes	\$46.27	\$24.41
1374	30-Apr-11	16	9	\$21.86	Yes	\$46.27	\$24.41
1375	30-Apr-11	16	10	\$21.91	Yes	\$46.27	\$24.36
1376	30-Apr-11	16	11	\$21.91	Yes	\$46.27	\$24.36
1377	30-Apr-11	16	12	\$21.91	Yes	\$46.27	\$24.36
1378	30-Apr-11	17	1	\$31.61	Yes	\$46.27	\$14.66
1379	30-Apr-11	17	2	\$28.79	Yes	\$46.27	\$17.48
1380	30-Apr-11	17	3	\$31.61	Yes	\$46.27	\$14.66
1381	30-Apr-11	17	4	\$20.64	Yes	\$46.27	\$25.63
1382	30-Apr-11	17	5	\$28.74	Yes	\$46.27	\$17.53
1383	30-Apr-11	17	6	\$32.98	Yes	\$46.27	\$13.29
1384	30-Apr-11	17	7	\$37.11	Yes	\$46.27	\$9.16
1385	30-Apr-11	17	8	\$39.33	Yes	\$46.27	\$6.94
1386	30-Apr-11	17	9	\$39.39	Yes	\$46.27	\$6.88
1387	30-Apr-11	17	10	\$49.33	Yes	\$46.27	-\$3.06
1388	30-Apr-11	17	11	\$49.33	Yes	\$46.27	-\$3.06
1389	30-Apr-11	17	12	\$47.06	Yes	\$46.27	-\$0.79
1390	30-Apr-11	18	1	\$49.16	Yes	\$46.27	-\$2.89
1391	30-Apr-11	18	2	\$46.16	Yes	\$46.27	\$0.11
1392	30-Apr-11	18	3	\$39.57	Yes	\$46.27	\$6.70
1393	30-Apr-11	18	4	\$40.60	Yes	\$46.27	\$5.67

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1394	30-Apr-11	18	5	\$49.08	Yes	\$46.27	-\$2.81
1395	30-Apr-11	18	6	\$49.09	Yes	\$46.27	-\$2.82
1396	30-Apr-11	18	7	\$49.33	Yes	\$46.27	-\$3.06
1397	30-Apr-11	18	8	\$49.33	Yes	\$46.27	-\$3.06
1398	30-Apr-11	18	9	\$49.48	Yes	\$46.27	-\$3.21
1399	30-Apr-11	18	10	\$49.70	Yes	\$46.27	-\$3.43
1400	30-Apr-11	18	11	\$49.03	Yes	\$46.27	-\$2.76
1401	30-Apr-11	18	12	\$52.67	Yes	\$46.27	-\$6.40
1402	30-Apr-11	19	1	\$40.27	Yes	\$46.27	\$6.00
1403	30-Apr-11	19	2	\$36.95	Yes	\$46.27	\$9.32
1404	30-Apr-11	19	3	\$21.99	Yes	\$46.27	\$24.28
1405	30-Apr-11	19	4	\$38.21	Yes	\$46.27	\$8.06
1406	30-Apr-11	19	5	\$40.23	Yes	\$46.27	\$6.04
1407	30-Apr-11	19	6	\$42.17	Yes	\$46.27	\$4.10
1408	30-Apr-11	19	7	\$74.87	Yes	\$46.27	-\$28.60
1409	30-Apr-11	19	8	\$74.87	Yes	\$46.27	-\$28.60
1410	30-Apr-11	19	9	\$81.42	Yes	\$46.27	-\$35.15
1411	30-Apr-11	19	10	\$74.77	Yes	\$46.27	-\$28.50
1412	30-Apr-11	19	11	\$32.33	Yes	\$46.27	\$13.94
1413	30-Apr-11	19	12	\$27.52	Yes	\$46.27	\$18.75
1414	30-Apr-11	20	1	\$0.00	Yes	\$46.27	\$46.27
1415	30-Apr-11	20	2	-\$0.01	Yes	\$46.27	\$46.28
1416	30-Apr-11	20	3	\$22.06	Yes	\$46.27	\$24.21
1417	30-Apr-11	20	4	\$32.39	Yes	\$46.27	\$13.88
1418	30-Apr-11	20	5	\$37.03	Yes	\$46.27	\$9.24
1419	30-Apr-11	20	6	\$74.83	Yes	\$46.27	-\$28.56
1420	30-Apr-11	20	7	\$48.63	Yes	\$46.27	-\$2.36
1421	30-Apr-11	20	8	\$73.64	Yes	\$46.27	-\$27.37
1422	30-Apr-11	20	9	\$48.63	Yes	\$46.27	-\$2.36
1423	30-Apr-11	20	10	\$74.03	Yes	\$46.27	-\$27.76
1424	30-Apr-11	20	11	\$52.47	Yes	\$46.27	-\$6.20
1425	30-Apr-11	20	12	\$74.03	Yes	\$46.27	-\$27.76
1426	30-Apr-11	21	1	\$81.37	Yes	\$46.27	-\$35.10
1427	30-Apr-11	21	2	\$74.82	Yes	\$46.27	-\$28.55
1428	30-Apr-11	21	3	\$74.82	Yes	\$46.27	-\$28.55
1429	30-Apr-11	21	4	\$73.83	Yes	\$46.27	-\$27.56
1430	30-Apr-11	21	5	\$73.83	Yes	\$46.27	-\$27.56
1431	30-Apr-11	21	6	\$73.83	Yes	\$46.27	-\$27.56
1432	30-Apr-11	21	7	\$45.50	Yes	\$46.27	\$0.77
1433	30-Apr-11	21	8	\$47.23	Yes	\$46.27	-\$0.96
1434	30-Apr-11	21	9	\$47.72	Yes	\$46.27	-\$1.45
1435	30-Apr-11	21	10	\$49.46	Yes	\$46.27	-\$3.19
1436	30-Apr-11	21	11	\$53.97	Yes	\$46.27	-\$7.70
1437	30-Apr-11	21	12	\$46.17	Yes	\$46.27	\$0.10
1438	30-Apr-11	22	1	\$53.67	Yes	\$46.27	-\$7.40

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1439	30-Apr-11	22	2	\$47.93	Yes	\$46.27	-\$1.66
1440	30-Apr-11	22	3	\$32.95	Yes	\$46.27	\$13.32
1441	30-Apr-11	22	4	\$32.74	Yes	\$46.27	\$13.53
1442	30-Apr-11	22	5	\$34.09	Yes	\$46.27	\$12.18
1443	30-Apr-11	22	6	\$32.74	Yes	\$46.27	\$13.53
1444	30-Apr-11	22	7	\$32.69	Yes	\$46.27	\$13.58
1445	30-Apr-11	22	8	\$44.15	Yes	\$46.27	\$2.12
1446	30-Apr-11	22	9	\$44.15	Yes	\$46.27	\$2.12
1447	30-Apr-11	22	10	\$74.86	Yes	\$46.27	-\$28.59
1448	30-Apr-11	22	11	\$74.86	Yes	\$46.27	-\$28.59
1449	30-Apr-11	22	12	\$81.41	Yes	\$46.27	-\$35.14
1450	30-Apr-11	23	1	\$80.14	Yes	\$46.27	-\$33.87
1451	30-Apr-11	23	2	\$80.14	Yes	\$46.27	-\$33.87
1452	30-Apr-11	23	3	\$73.69	Yes	\$46.27	-\$27.42
1453	30-Apr-11	23	4	\$87.84	Yes	\$46.27	-\$41.57
1454	30-Apr-11	23	5	\$73.88	Yes	\$46.27	-\$27.61
1455	30-Apr-11	23	6	\$54.68	Yes	\$46.27	-\$8.41
1456	30-Apr-11	23	7	\$40.18	Yes	\$46.27	\$6.09
1457	30-Apr-11	23	8	\$40.18	Yes	\$46.27	\$6.09
1458	30-Apr-11	23	9	\$40.18	Yes	\$46.27	\$6.09
1459	30-Apr-11	23	10	\$36.50	Yes	\$46.27	\$9.77

Table 9: Price Impact Analysis Information for Pricing Node B in SCE LAP

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	9-Apr-11	17	12	-\$1.10	Yes	\$43.85	\$44.95
2	9-Apr-11	18	1	-\$0.52	Yes	\$22.61	\$23.13
3	9-Apr-11	18	2	-\$1.10	Yes	\$22.61	\$23.71
4	9-Apr-11	18	3	-\$1.22	Yes	\$22.61	\$23.83
5	9-Apr-11	18	4	-\$3.20	Yes	\$22.61	\$25.81
6	9-Apr-11	18	5	-\$3.20	Yes	\$22.61	\$25.81
7	9-Apr-11	18	6	-\$3.20	Yes	\$22.61	\$25.81
8	9-Apr-11	18	7	-\$3.19	Yes	\$22.61	\$25.80
9	9-Apr-11	18	8	-\$29.28	Yes	\$22.61	\$51.89
10	9-Apr-11	18	9	-\$29.28	Yes	\$22.61	\$51.89
11	9-Apr-11	18	10	-\$29.23	Yes	\$22.61	\$51.84
12	9-Apr-11	18	11	-\$1.09	Yes	\$22.61	\$23.70
13	9-Apr-11	18	12	-\$1.09	Yes	\$22.61	\$23.70
14	9-Apr-11	19	1	-\$1.06	Yes	\$48.29	\$49.35
15	9-Apr-11	19	2	-\$1.06	Yes	\$48.29	\$49.35
16	9-Apr-11	19	3	-\$1.06	Yes	\$48.29	\$49.35
17	9-Apr-11	19	4	-\$3.19	Yes	\$48.29	\$51.48
18	9-Apr-11	19	5	-\$1.10	Yes	\$48.29	\$49.39
19	9-Apr-11	19	6	-\$1.10	Yes	\$48.29	\$49.39
20	9-Apr-11	19	7	-\$1.07	Yes	\$48.29	\$49.36
21	9-Apr-11	19	8	-\$1.20	Yes	\$48.29	\$49.49
22	9-Apr-11	19	9	-\$1.07	Yes	\$48.29	\$49.36
23	9-Apr-11	19	10	-\$1.08	Yes	\$48.29	\$49.37
24	9-Apr-11	19	11	-\$1.09	Yes	\$48.29	\$49.38
25	9-Apr-11	19	12	-\$30.14	Yes	\$48.29	\$78.43
26	9-Apr-11	20	1	-\$30.04	Yes	\$56.61	\$86.65
27	9-Apr-11	20	2	-\$30.04	Yes	\$56.61	\$86.65
28	9-Apr-11	20	3	-\$1.17	Yes	\$56.61	\$57.78
29	9-Apr-11	20	4	-\$1.22	Yes	\$56.61	\$57.83
30	9-Apr-11	20	5	-\$1.22	Yes	\$56.61	\$57.83
31	9-Apr-11	20	6	-\$1.67	Yes	\$56.61	\$58.28
32	9-Apr-11	20	7	-\$1.12	Yes	\$56.61	\$57.73
33	9-Apr-11	20	8	-\$0.02	Yes	\$56.61	\$56.63
34	9-Apr-11	20	9	\$1.09	Yes	\$56.61	\$55.52
35	9-Apr-11	20	10	\$1.11	Yes	\$56.61	\$55.50
36	9-Apr-11	20	11	\$33.87	Yes	\$56.61	\$22.74
37	9-Apr-11	20	12	\$33.87	Yes	\$56.61	\$22.74
38	9-Apr-11	21	1	\$85.82	Yes	\$44.99	-\$40.83
39	9-Apr-11	21	2	\$46.26	Yes	\$44.99	-\$1.27
40	9-Apr-11	21	3	\$35.14	Yes	\$44.99	\$9.85
41	9-Apr-11	21	4	\$41.23	Yes	\$44.99	\$3.76

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
42	9-Apr-11	21	5	\$41.23	Yes	\$44.99	\$3.76
43	9-Apr-11	21	6	\$41.23	Yes	\$44.99	\$3.76
44	9-Apr-11	21	7	\$33.73	Yes	\$44.99	\$11.26
45	9-Apr-11	21	8	\$33.73	Yes	\$44.99	\$11.26
46	9-Apr-11	21	9	\$33.73	Yes	\$44.99	\$11.26
47	9-Apr-11	21	10	\$25.46	Yes	\$44.99	\$19.53
48	9-Apr-11	21	11	\$21.49	Yes	\$44.99	\$23.50
49	9-Apr-11	21	12	\$1.11	Yes	\$44.99	\$43.88
50	10-Apr-11	19	9	\$34.95	Yes	\$48.29	\$13.34
51	10-Apr-11	19	10	\$48.51	Yes	\$48.29	-\$0.22
52	10-Apr-11	19	11	\$46.14	Yes	\$48.29	\$2.15
53	10-Apr-11	19	12	\$49.43	Yes	\$48.29	-\$1.14
54	10-Apr-11	20	1	\$46.41	Yes	\$56.61	\$10.20
55	10-Apr-11	20	2	\$48.47	Yes	\$56.61	\$8.14
56	10-Apr-11	20	3	\$47.05	Yes	\$56.61	\$9.56
57	10-Apr-11	20	4	\$25.41	Yes	\$56.61	\$31.20
58	10-Apr-11	20	5	\$35.46	Yes	\$56.61	\$21.15
59	10-Apr-11	20	6	\$40.62	Yes	\$56.61	\$15.99
60	10-Apr-11	20	7	\$47.90	Yes	\$56.61	\$8.71
61	10-Apr-11	20	8	\$49.39	Yes	\$56.61	\$7.22
62	10-Apr-11	20	9	\$52.56	Yes	\$56.61	\$4.05
63	10-Apr-11	20	10	\$60.71	Yes	\$56.61	-\$4.10
64	10-Apr-11	20	11	\$53.48	Yes	\$56.61	\$3.13
65	10-Apr-11	20	12	\$52.74	Yes	\$56.61	\$3.87
66	10-Apr-11	21	1	\$94.37	Yes	\$44.99	-\$49.38
67	10-Apr-11	21	2	\$54.25	Yes	\$44.99	-\$9.26
68	10-Apr-11	21	3	\$51.11	Yes	\$44.99	-\$6.12
69	10-Apr-11	21	4	\$52.81	Yes	\$44.99	-\$7.82
70	10-Apr-11	21	5	\$53.71	Yes	\$44.99	-\$8.72
71	10-Apr-11	21	6	\$54.11	Yes	\$44.99	-\$9.12
72	10-Apr-11	21	7	\$51.00	Yes	\$44.99	-\$6.01
73	10-Apr-11	21	8	\$51.45	Yes	\$44.99	-\$6.46
74	10-Apr-11	21	9	\$50.75	Yes	\$44.99	-\$5.76
75	10-Apr-11	21	10	\$52.41	Yes	\$44.99	-\$7.42
76	10-Apr-11	21	11	\$52.37	Yes	\$44.99	-\$7.38
77	10-Apr-11	21	12	\$49.34	Yes	\$44.99	-\$4.35
78	11-Apr-11	17	7	\$1.42	Yes	\$43.85	\$42.43
79	11-Apr-11	17	8	\$1.42	Yes	\$43.85	\$42.43
80	11-Apr-11	17	9	\$1.42	Yes	\$43.85	\$42.43
81	11-Apr-11	17	10	\$1.42	Yes	\$43.85	\$42.43
82	11-Apr-11	17	11	\$0.38	Yes	\$43.85	\$43.47
83	11-Apr-11	17	12	\$0.38	Yes	\$43.85	\$43.47
84	11-Apr-11	18	1	\$0.01	Yes	\$22.61	\$22.60
85	11-Apr-11	18	2	\$0.01	Yes	\$22.61	\$22.60
86	11-Apr-11	18	3	\$0.01	Yes	\$22.61	\$22.60

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
87	11-Apr-11	18	4	\$0.01	Yes	\$22.61	\$22.60
88	11-Apr-11	18	5	\$0.01	Yes	\$22.61	\$22.60
89	11-Apr-11	18	6	\$0.01	Yes	\$22.61	\$22.60
90	11-Apr-11	18	7	\$0.01	Yes	\$22.61	\$22.60
91	11-Apr-11	18	8	\$0.01	Yes	\$22.61	\$22.60
92	11-Apr-11	18	9	\$0.01	Yes	\$22.61	\$22.60
93	11-Apr-11	18	10	\$0.01	Yes	\$22.61	\$22.60
94	11-Apr-11	18	11	\$0.01	Yes	\$22.61	\$22.60
95	11-Apr-11	18	12	\$0.38	Yes	\$22.61	\$22.23
96	11-Apr-11	19	1	\$34.41	Yes	\$48.28	\$13.87
97	11-Apr-11	19	2	\$34.41	Yes	\$48.28	\$13.87
98	11-Apr-11	19	3	\$33.28	Yes	\$48.28	\$15.00
99	11-Apr-11	19	4	\$32.24	Yes	\$48.28	\$16.04
100	11-Apr-11	19	5	\$27.91	Yes	\$48.28	\$20.37
101	11-Apr-11	19	6	\$20.21	Yes	\$48.28	\$28.07
102	11-Apr-11	19	7	\$22.62	Yes	\$48.28	\$25.66
103	11-Apr-11	19	8	\$23.54	Yes	\$48.28	\$24.74
104	11-Apr-11	19	9	\$32.25	Yes	\$48.28	\$16.03
105	11-Apr-11	19	10	\$36.94	Yes	\$48.28	\$11.34
106	11-Apr-11	19	11	\$36.94	Yes	\$48.28	\$11.34
107	11-Apr-11	19	12	\$36.94	Yes	\$48.28	\$11.34
108	11-Apr-11	20	1	\$1.17	Yes	\$56.60	\$55.43
109	11-Apr-11	20	2	\$1.17	Yes	\$56.60	\$55.43
110	11-Apr-11	20	3	\$1.17	Yes	\$56.60	\$55.43
111	11-Apr-11	20	4	\$1.17	Yes	\$56.60	\$55.43
112	11-Apr-11	20	5	\$32.46	Yes	\$56.60	\$24.14
113	11-Apr-11	20	6	\$32.46	Yes	\$56.60	\$24.14
114	11-Apr-11	20	7	\$34.99	Yes	\$56.60	\$21.61
115	11-Apr-11	20	8	\$48.80	Yes	\$56.60	\$7.80
116	11-Apr-11	20	9	\$52.70	Yes	\$56.60	\$3.90
117	11-Apr-11	20	10	\$52.87	Yes	\$56.60	\$3.73
118	11-Apr-11	20	11	\$48.35	Yes	\$56.60	\$8.25
119	11-Apr-11	20	12	\$53.00	Yes	\$56.60	\$3.61
120	11-Apr-11	21	1	\$49.45	Yes	\$44.99	-\$4.46
121	11-Apr-11	21	2	\$49.45	Yes	\$44.99	-\$4.46
122	11-Apr-11	21	3	\$54.05	Yes	\$44.99	-\$9.06
123	11-Apr-11	21	4	\$54.20	Yes	\$44.99	-\$9.21
124	11-Apr-11	21	5	\$49.50	Yes	\$44.99	-\$4.51
125	11-Apr-11	21	6	\$28.05	Yes	\$44.99	\$16.94
126	11-Apr-11	21	7	\$25.05	Yes	\$44.99	\$19.94
127	11-Apr-11	21	8	\$21.40	Yes	\$44.99	\$23.59
128	11-Apr-11	21	9	\$21.40	Yes	\$44.99	\$23.59
129	11-Apr-11	21	10	\$16.40	Yes	\$44.99	\$28.59
130	11-Apr-11	21	11	\$14.58	Yes	\$44.99	\$30.41
131	11-Apr-11	21	12	\$5.37	Yes	\$44.99	\$39.62

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
132	11-Apr-11	22	1	\$46.44	Yes	\$40.42	-\$6.02
133	11-Apr-11	22	2	\$45.03	Yes	\$40.42	-\$4.61
134	11-Apr-11	22	3	\$32.07	Yes	\$40.42	\$8.35
135	11-Apr-11	22	4	\$28.85	Yes	\$40.42	\$11.57
136	11-Apr-11	22	5	\$43.68	Yes	\$40.42	-\$3.26
137	11-Apr-11	22	6	\$44.98	Yes	\$40.42	-\$4.56
138	11-Apr-11	22	7	\$34.54	Yes	\$40.42	\$5.88
139	11-Apr-11	22	8	\$28.83	Yes	\$40.42	\$11.59
140	11-Apr-11	22	9	\$5.38	Yes	\$40.42	\$35.04
141	11-Apr-11	22	10	\$0.01	Yes	\$40.42	\$40.41
142	11-Apr-11	22	11	-\$0.01	Yes	\$40.42	\$40.43
143	11-Apr-11	22	12	-\$0.01	Yes	\$40.42	\$40.43
144	12-Apr-11	17	7	-\$0.38	Yes	\$42.05	\$42.43
145	12-Apr-11	17	8	-\$1.08	Yes	\$42.05	\$43.13
146	12-Apr-11	17	9	-\$1.08	Yes	\$42.05	\$43.13
147	12-Apr-11	17	10	-\$2.63	Yes	\$42.05	\$44.68
148	12-Apr-11	17	11	-\$1.08	Yes	\$42.05	\$43.13
149	12-Apr-11	17	12	-\$0.38	Yes	\$42.05	\$42.43
150	12-Apr-11	18	1	-\$0.38	Yes	\$42.05	\$42.43
151	12-Apr-11	18	2	-\$0.01	Yes	\$42.05	\$42.06
152	12-Apr-11	18	3	-\$0.01	Yes	\$42.05	\$42.06
153	12-Apr-11	18	4	-\$0.01	Yes	\$42.05	\$42.06
154	12-Apr-11	18	5	-\$0.01	Yes	\$42.05	\$42.06
155	12-Apr-11	18	6	\$0.01	Yes	\$42.05	\$42.04
156	12-Apr-11	18	7	-\$1.08	Yes	\$42.05	\$43.13
157	12-Apr-11	18	8	-\$1.08	Yes	\$42.05	\$43.13
158	12-Apr-11	18	9	-\$1.08	Yes	\$42.05	\$43.13
159	12-Apr-11	18	10	-\$0.38	Yes	\$42.05	\$42.43
160	12-Apr-11	18	11	-\$0.02	Yes	\$42.05	\$42.07
161	12-Apr-11	18	12	-\$0.01	Yes	\$42.05	\$42.06
162	12-Apr-11	19	1	-\$0.01	Yes	\$42.05	\$42.06
163	12-Apr-11	19	2	-\$2.64	Yes	\$42.05	\$44.69
164	12-Apr-11	19	3	-\$1.09	Yes	\$42.05	\$43.14
165	12-Apr-11	19	4	-\$0.01	Yes	\$42.05	\$42.06
166	12-Apr-11	19	5	-\$0.01	Yes	\$42.05	\$42.06
167	12-Apr-11	19	6	\$0.01	Yes	\$42.05	\$42.04
168	12-Apr-11	19	7	-\$1.09	Yes	\$42.05	\$43.14
169	12-Apr-11	19	8	-\$1.09	Yes	\$42.05	\$43.14
170	12-Apr-11	19	9	-\$1.09	Yes	\$42.05	\$43.14
171	12-Apr-11	19	10	-\$0.02	Yes	\$42.05	\$42.07
172	12-Apr-11	19	11	\$0.38	Yes	\$42.05	\$41.67
173	12-Apr-11	19	12	\$0.38	Yes	\$42.05	\$41.67
174	12-Apr-11	20	1	\$11.12	Yes	\$60.89	\$49.77
175	12-Apr-11	20	2	-\$0.01	Yes	\$60.89	\$60.90
176	12-Apr-11	20	3	-\$0.38	Yes	\$60.89	\$61.27

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
177	12-Apr-11	20	4	\$0.38	Yes	\$60.89	\$60.51
178	12-Apr-11	20	5	\$0.38	Yes	\$60.89	\$60.51
179	12-Apr-11	20	6	\$16.36	Yes	\$60.89	\$44.53
180	12-Apr-11	20	7	\$0.38	Yes	\$60.89	\$60.51
181	12-Apr-11	20	8	\$0.90	Yes	\$60.89	\$59.99
182	12-Apr-11	20	9	\$28.79	Yes	\$60.89	\$32.10
183	12-Apr-11	20	10	\$33.49	Yes	\$60.89	\$27.40
184	12-Apr-11	20	11	\$43.68	Yes	\$60.89	\$17.21
185	12-Apr-11	20	12	\$35.72	Yes	\$60.89	\$25.17
186	12-Apr-11	21	1	\$33.77	Yes	\$47.09	\$13.32
187	12-Apr-11	21	2	\$31.53	Yes	\$47.09	\$15.56
188	12-Apr-11	21	3	\$20.69	Yes	\$47.09	\$26.40
189	12-Apr-11	21	4	\$35.29	Yes	\$47.09	\$11.80
190	12-Apr-11	21	5	\$35.29	Yes	\$47.09	\$11.80
191	12-Apr-11	21	6	\$31.74	Yes	\$47.09	\$15.35
192	12-Apr-11	21	7	\$27.77	Yes	\$47.09	\$19.32
193	12-Apr-11	21	8	\$11.87	Yes	\$47.09	\$35.22
194	12-Apr-11	21	9	\$12.73	Yes	\$47.09	\$34.36
195	12-Apr-11	21	10	\$12.62	Yes	\$47.09	\$34.47
196	12-Apr-11	21	11	\$11.59	Yes	\$47.09	\$35.50
197	12-Apr-11	21	12	\$11.07	Yes	\$47.09	\$36.02
198	13-Apr-11	17	7	\$0.78	Yes	\$42.95	\$42.17
199	13-Apr-11	17	8	\$0.26	Yes	\$42.95	\$42.69
200	13-Apr-11	17	9	\$0.26	Yes	\$42.95	\$42.69
201	13-Apr-11	17	10	\$0.02	Yes	\$42.95	\$42.93
202	13-Apr-11	17	11	\$0.78	Yes	\$42.95	\$42.17
203	13-Apr-11	17	12	\$0.26	Yes	\$42.95	\$42.69
204	13-Apr-11	18	1	\$0.78	Yes	\$42.95	\$42.17
205	13-Apr-11	18	2	\$0.78	Yes	\$42.95	\$42.17
206	13-Apr-11	18	3	\$0.78	Yes	\$42.95	\$42.17
207	13-Apr-11	18	4	\$3.10	Yes	\$42.95	\$39.85
208	13-Apr-11	18	5	\$1.29	Yes	\$42.95	\$41.66
209	13-Apr-11	18	6	\$1.29	Yes	\$42.95	\$41.66
210	13-Apr-11	18	7	\$3.10	Yes	\$42.95	\$39.85
211	13-Apr-11	18	8	\$3.10	Yes	\$42.95	\$39.85
212	13-Apr-11	18	9	\$11.07	Yes	\$42.95	\$31.88
213	13-Apr-11	18	10	\$19.05	Yes	\$42.95	\$23.90
214	13-Apr-11	18	11	\$11.07	Yes	\$42.95	\$31.88
215	13-Apr-11	18	12	\$13.52	Yes	\$42.95	\$29.43
216	13-Apr-11	19	1	\$28.06	Yes	\$42.95	\$14.89
217	13-Apr-11	19	2	\$29.12	Yes	\$42.95	\$13.83
218	13-Apr-11	19	3	\$28.22	Yes	\$42.95	\$14.73
219	13-Apr-11	19	4	\$11.11	Yes	\$42.95	\$31.84
220	13-Apr-11	19	5	\$20.10	Yes	\$42.95	\$22.85
221	13-Apr-11	19	6	\$24.35	Yes	\$42.95	\$18.60

Department of Market Services – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
222	13-Apr-11	19	7	\$30.98	Yes	\$42.95	\$11.97
223	13-Apr-11	19	8	\$30.23	Yes	\$42.95	\$12.72
224	13-Apr-11	19	9	\$30.98	Yes	\$42.95	\$11.97
225	13-Apr-11	19	10	\$30.38	Yes	\$42.95	\$12.57
226	13-Apr-11	19	11	\$30.38	Yes	\$42.95	\$12.57
227	13-Apr-11	19	12	\$35.03	Yes	\$42.95	\$7.92
228	13-Apr-11	20	1	-\$0.35	Yes	\$58.27	\$58.62
229	13-Apr-11	20	2	-\$0.35	Yes	\$58.27	\$58.62
230	13-Apr-11	20	3	-\$0.35	Yes	\$58.27	\$58.62
231	13-Apr-11	20	4	\$0.01	Yes	\$58.27	\$58.26
232	13-Apr-11	20	5	\$0.89	Yes	\$58.27	\$57.38
233	13-Apr-11	20	6	\$4.17	Yes	\$58.27	\$54.10
234	13-Apr-11	20	7	\$20.10	Yes	\$58.27	\$38.17
235	13-Apr-11	20	8	\$30.23	Yes	\$58.27	\$28.04
236	13-Apr-11	20	9	\$47.61	Yes	\$58.27	\$10.66
237	13-Apr-11	20	10	\$52.58	Yes	\$58.27	\$5.69
238	13-Apr-11	20	11	\$48.87	Yes	\$58.27	\$9.40
239	13-Apr-11	20	12	\$42.04	Yes	\$58.27	\$16.23
240	14-Apr-11	6	1	-\$0.01	Yes	\$42.95	\$42.96
241	14-Apr-11	6	2	-\$0.01	Yes	\$42.95	\$42.96
242	14-Apr-11	6	3	\$0.01	Yes	\$42.95	\$42.94
243	14-Apr-11	6	4	-\$2.57	Yes	\$42.95	\$45.52
244	14-Apr-11	6	5	-\$1.04	Yes	\$42.95	\$43.99
245	14-Apr-11	6	6	-\$0.35	Yes	\$42.95	\$43.30
246	14-Apr-11	6	7	-\$1.06	Yes	\$42.95	\$44.01
247	14-Apr-11	6	8	-\$1.06	Yes	\$42.95	\$44.01
248	14-Apr-11	6	9	-\$0.01	Yes	\$42.95	\$42.96
249	14-Apr-11	6	10	\$4.15	Yes	\$42.95	\$38.80
250	14-Apr-11	6	11	\$0.01	Yes	\$42.95	\$42.94
251	14-Apr-11	6	12	\$4.15	Yes	\$42.95	\$38.80
252	14-Apr-11	7	1	-\$2.49	Yes	\$42.95	\$45.44
253	14-Apr-11	7	2	-\$0.99	Yes	\$42.95	\$43.94
254	14-Apr-11	7	3	-\$0.01	Yes	\$42.95	\$42.96
255	14-Apr-11	7	4	-\$1.00	Yes	\$42.95	\$43.95
256	14-Apr-11	7	5	-\$1.00	Yes	\$42.95	\$43.95
257	14-Apr-11	7	6	-\$1.00	Yes	\$42.95	\$43.95
258	14-Apr-11	7	7	-\$0.37	Yes	\$42.95	\$43.32
259	14-Apr-11	7	8	-\$0.37	Yes	\$42.95	\$43.32
260	14-Apr-11	7	9	-\$0.17	Yes	\$42.95	\$43.12
261	14-Apr-11	7	10	-\$1.04	Yes	\$42.95	\$43.99
262	14-Apr-11	7	11	-\$0.01	Yes	\$42.95	\$42.96
263	14-Apr-11	7	12	\$1.22	Yes	\$42.95	\$41.73
264	14-Apr-11	8	1	-\$0.01	Yes	\$42.95	\$42.96
265	14-Apr-11	8	2	\$31.74	Yes	\$42.95	\$11.21
266	14-Apr-11	8	3	\$35.14	Yes	\$42.95	\$7.81

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
267	14-Apr-11	8	4	-\$0.01	Yes	\$42.95	\$42.96
268	14-Apr-11	8	5	\$0.01	Yes	\$42.95	\$42.94
269	14-Apr-11	8	6	\$10.34	Yes	\$42.95	\$32.61
270	14-Apr-11	8	7	\$43.75	Yes	\$42.95	-\$0.80
271	14-Apr-11	8	8	\$35.11	Yes	\$42.95	\$7.84
272	14-Apr-11	8	9	\$35.11	Yes	\$42.95	\$7.84
273	14-Apr-11	8	10	\$30.40	Yes	\$42.95	\$12.55
274	14-Apr-11	8	11	\$34.94	Yes	\$42.95	\$8.01
275	14-Apr-11	8	12	\$34.94	Yes	\$42.95	\$8.01
276	14-Apr-11	9	1	\$28.82	Yes	\$42.95	\$14.13
277	14-Apr-11	9	2	\$20.89	Yes	\$42.95	\$22.06
278	14-Apr-11	9	3	\$32.55	Yes	\$42.95	\$10.40
279	14-Apr-11	9	4	\$35.06	Yes	\$42.95	\$7.89
280	14-Apr-11	9	5	\$41.31	Yes	\$42.95	\$1.64
281	14-Apr-11	9	6	\$41.31	Yes	\$42.95	\$1.64
282	14-Apr-11	9	7	\$35.17	Yes	\$42.95	\$7.78
283	14-Apr-11	9	8	\$42.94	Yes	\$42.95	\$0.01
284	14-Apr-11	9	9	\$45.90	Yes	\$42.95	-\$2.95
285	14-Apr-11	9	10	\$53.89	Yes	\$42.95	-\$10.94
286	14-Apr-11	9	11	\$53.89	Yes	\$42.95	-\$10.94
287	14-Apr-11	9	12	\$34.89	Yes	\$42.95	\$8.06
288	14-Apr-11	10	1	\$32.49	Yes	\$42.95	\$10.46
289	14-Apr-11	10	2	\$30.32	Yes	\$42.95	\$12.63
290	14-Apr-11	10	3	\$25.45	Yes	\$42.95	\$17.50
291	14-Apr-11	10	4	\$25.47	Yes	\$42.95	\$17.48
292	14-Apr-11	10	5	\$23.89	Yes	\$42.95	\$19.06
293	14-Apr-11	10	6	\$24.96	Yes	\$42.95	\$17.99
294	14-Apr-11	10	7	\$26.11	Yes	\$42.95	\$16.84
295	14-Apr-11	10	8	\$25.49	Yes	\$42.95	\$17.46
296	14-Apr-11	10	9	\$26.11	Yes	\$42.95	\$16.84
297	14-Apr-11	10	10	\$20.88	Yes	\$42.95	\$22.07
298	14-Apr-11	10	11	\$24.84	Yes	\$42.95	\$18.11
299	14-Apr-11	10	12	\$28.93	Yes	\$42.95	\$14.02
300	14-Apr-11	17	11	\$1.27	Yes	\$999.02	\$997.75
301	14-Apr-11	17	12	\$0.75	Yes	\$999.02	\$998.27
302	14-Apr-11	18	1	\$1.27	Yes	\$999.02	\$997.75
303	14-Apr-11	18	2	\$1.05	Yes	\$999.02	\$997.97
304	14-Apr-11	18	3	\$1.05	Yes	\$999.02	\$997.97
305	14-Apr-11	18	4	\$1.27	Yes	\$999.02	\$997.75
306	14-Apr-11	18	5	\$1.27	Yes	\$999.02	\$997.75
307	14-Apr-11	18	6	\$15.59	Yes	\$999.02	\$983.43
308	14-Apr-11	18	7	\$20.86	Yes	\$999.02	\$978.16
309	14-Apr-11	18	8	\$15.55	Yes	\$999.02	\$983.47
310	14-Apr-11	18	9	\$15.55	Yes	\$999.02	\$983.47
311	14-Apr-11	18	10	\$15.48	Yes	\$999.02	\$983.54

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
312	14-Apr-11	18	11	\$15.48	Yes	\$999.02	\$983.54
313	14-Apr-11	18	12	\$1.26	Yes	\$999.02	\$997.76
314	14-Apr-11	19	1	\$17.49	Yes	\$42.95	\$25.46
315	14-Apr-11	19	2	\$17.49	Yes	\$42.95	\$25.46
316	14-Apr-11	19	3	\$0.20	Yes	\$42.95	\$42.75
317	14-Apr-11	19	4	\$17.53	Yes	\$42.95	\$25.42
318	14-Apr-11	19	5	\$17.53	Yes	\$42.95	\$25.42
319	14-Apr-11	19	6	\$25.77	Yes	\$42.95	\$17.18
320	14-Apr-11	19	7	\$17.46	Yes	\$42.95	\$25.49
321	14-Apr-11	19	8	\$17.46	Yes	\$42.95	\$25.49
322	14-Apr-11	19	9	\$24.97	Yes	\$42.95	\$17.98
323	14-Apr-11	19	10	\$30.47	Yes	\$42.95	\$12.48
324	14-Apr-11	19	11	\$26.74	Yes	\$42.95	\$16.21
325	14-Apr-11	19	12	\$17.60	Yes	\$42.95	\$25.35
326	14-Apr-11	20	1	-\$0.01	Yes	\$55.98	\$55.99
327	14-Apr-11	20	2	-\$0.01	Yes	\$55.98	\$55.99
328	14-Apr-11	20	3	-\$0.01	Yes	\$55.98	\$55.99
329	14-Apr-11	20	4	\$0.20	Yes	\$55.98	\$55.78
330	14-Apr-11	20	5	\$16.07	Yes	\$55.98	\$39.91
331	14-Apr-11	20	6	\$17.99	Yes	\$55.98	\$37.99
332	14-Apr-11	20	7	\$20.84	Yes	\$55.98	\$35.14
333	14-Apr-11	20	8	\$29.48	Yes	\$55.98	\$26.50
334	14-Apr-11	20	9	\$41.79	Yes	\$55.98	\$14.19
335	14-Apr-11	20	10	\$43.97	Yes	\$55.98	\$12.01
336	14-Apr-11	20	11	\$43.97	Yes	\$55.98	\$12.01
337	14-Apr-11	20	12	\$45.82	Yes	\$55.98	\$10.16
338	14-Apr-11	21	1	\$49.44	Yes	\$41.72	-\$7.72
339	14-Apr-11	21	2	\$52.15	Yes	\$41.72	-\$10.43
340	14-Apr-11	21	3	\$65.06	Yes	\$41.72	-\$23.34
341	14-Apr-11	21	4	\$65.08	Yes	\$41.72	-\$23.36
342	14-Apr-11	21	5	\$55.81	Yes	\$41.72	-\$14.09
343	14-Apr-11	21	6	\$52.29	Yes	\$41.72	-\$10.57
344	14-Apr-11	21	7	\$29.73	Yes	\$41.72	\$11.99
345	14-Apr-11	21	8	\$30.32	Yes	\$41.72	\$11.40
346	14-Apr-11	21	9	\$30.25	Yes	\$41.72	\$11.47
347	14-Apr-11	21	10	\$29.16	Yes	\$41.72	\$12.56
348	14-Apr-11	21	11	\$29.16	Yes	\$41.72	\$12.56
349	14-Apr-11	21	12	\$29.70	Yes	\$41.72	\$12.02
350	20-Apr-11	18	2	\$27.74	Yes	\$999.00	\$971.26
351	20-Apr-11	18	3	\$27.72	Yes	\$999.00	\$971.28
352	20-Apr-11	18	4	\$26.49	Yes	\$999.00	\$972.51
353	20-Apr-11	18	5	\$21.66	Yes	\$999.00	\$977.34
354	20-Apr-11	18	6	\$17.10	Yes	\$999.00	\$981.90
355	20-Apr-11	18	7	\$17.05	Yes	\$999.00	\$981.95
356	20-Apr-11	18	8	\$4.60	Yes	\$999.00	\$994.40

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
357	20-Apr-11	18	9	\$17.05	Yes	\$999.00	\$981.95
358	20-Apr-11	18	10	\$17.13	Yes	\$999.00	\$981.87
359	20-Apr-11	18	11	\$17.13	Yes	\$999.00	\$981.87
360	20-Apr-11	18	12	\$17.13	Yes	\$999.00	\$981.87
361	20-Apr-11	19	1	\$21.32	Yes	\$999.00	\$977.68
362	20-Apr-11	19	2	\$21.58	Yes	\$999.00	\$977.42
363	20-Apr-11	19	3	\$27.28	Yes	\$999.00	\$971.72
364	20-Apr-11	19	4	\$27.74	Yes	\$999.00	\$971.26
365	20-Apr-11	19	5	\$27.74	Yes	\$999.00	\$971.26
366	20-Apr-11	19	6	\$27.78	Yes	\$999.00	\$971.22
367	20-Apr-11	19	7	\$27.21	Yes	\$999.00	\$971.79
368	20-Apr-11	19	8	\$27.21	Yes	\$999.00	\$971.79
369	20-Apr-11	19	9	\$27.77	Yes	\$999.00	\$971.23
370	20-Apr-11	19	10	\$29.32	Yes	\$999.00	\$969.68
371	20-Apr-11	19	11	\$29.21	Yes	\$999.00	\$969.79
372	20-Apr-11	19	12	\$29.32	Yes	\$999.00	\$969.68
373	20-Apr-11	20	1	\$21.46	Yes	\$999.00	\$977.54
374	20-Apr-11	20	2	\$21.46	Yes	\$999.00	\$977.54
375	20-Apr-11	20	3	\$2.84	Yes	\$999.00	\$996.16
376	20-Apr-11	20	4	\$21.58	Yes	\$999.00	\$977.42
377	20-Apr-11	20	5	\$30.54	Yes	\$999.00	\$968.46
378	20-Apr-11	20	6	\$34.78	Yes	\$999.00	\$964.22
379	20-Apr-11	20	7	\$34.51	Yes	\$999.00	\$964.49
380	20-Apr-11	20	8	\$80.19	Yes	\$999.00	\$918.81
381	20-Apr-11	20	9	\$87.21	Yes	\$999.00	\$911.79
382	20-Apr-11	20	10	\$200.51	Yes	\$999.00	\$798.49
383	20-Apr-11	20	11	\$88.09	Yes	\$999.00	\$910.91
384	20-Apr-11	20	12	\$88.09	Yes	\$999.00	\$910.91
385	20-Apr-11	21	1	\$86.90	Yes	\$42.41	-\$44.49
386	20-Apr-11	21	2	\$86.90	Yes	\$42.41	-\$44.49
387	20-Apr-11	21	3	\$86.90	Yes	\$42.41	-\$44.49
388	20-Apr-11	21	4	\$84.86	Yes	\$42.41	-\$42.45
389	20-Apr-11	21	5	\$84.86	Yes	\$42.41	-\$42.45
390	20-Apr-11	21	6	\$84.86	Yes	\$42.41	-\$42.45
391	20-Apr-11	21	7	\$79.90	Yes	\$42.41	-\$37.49
392	21-Apr-11	17	10	\$29.49	Yes	\$999.99	\$970.50
393	21-Apr-11	17	11	\$31.63	Yes	\$999.99	\$968.36
394	21-Apr-11	17	12	\$32.54	Yes	\$999.99	\$967.45
395	21-Apr-11	18	1	\$33.40	Yes	\$999.99	\$966.59
396	21-Apr-11	18	2	\$34.40	Yes	\$999.99	\$965.59
397	21-Apr-11	18	3	\$34.40	Yes	\$999.99	\$965.59
398	21-Apr-11	18	4	\$30.47	Yes	\$999.99	\$969.52
399	21-Apr-11	18	5	\$30.47	Yes	\$999.99	\$969.52
400	21-Apr-11	18	6	\$30.47	Yes	\$999.99	\$969.52
401	21-Apr-11	18	7	\$30.31	Yes	\$999.99	\$969.68

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
402	21-Apr-11	18	8	\$30.31	Yes	\$999.99	\$969.68
403	21-Apr-11	18	9	\$30.31	Yes	\$999.99	\$969.68
404	21-Apr-11	18	10	\$32.34	Yes	\$999.99	\$967.65
405	21-Apr-11	18	11	\$30.42	Yes	\$999.99	\$969.57
406	21-Apr-11	18	12	\$29.32	Yes	\$999.99	\$970.67
407	21-Apr-11	19	1	\$24.19	Yes	\$999.99	\$975.80
408	21-Apr-11	19	2	\$27.21	Yes	\$999.99	\$972.78
409	21-Apr-11	19	3	\$27.66	Yes	\$999.99	\$972.33
410	21-Apr-11	19	4	\$27.64	Yes	\$999.99	\$972.35
411	21-Apr-11	19	5	\$27.64	Yes	\$999.99	\$972.35
412	21-Apr-11	19	6	\$27.64	Yes	\$999.99	\$972.35
413	21-Apr-11	19	7	\$2.06	Yes	\$999.99	\$997.93
414	21-Apr-11	19	8	\$2.06	Yes	\$999.99	\$997.93
415	21-Apr-11	19	9	\$21.29	Yes	\$999.99	\$978.70
416	21-Apr-11	19	10	\$21.26	Yes	\$999.99	\$978.73
417	21-Apr-11	19	11	\$2.05	Yes	\$999.99	\$997.94
418	21-Apr-11	19	12	\$0.11	Yes	\$999.99	\$999.88
419	21-Apr-11	20	1	\$0.11	Yes	\$999.99	\$999.88
420	21-Apr-11	20	2	\$1.54	Yes	\$999.99	\$998.45
421	21-Apr-11	20	3	-\$0.01	Yes	\$999.99	\$1,000.00
422	21-Apr-11	20	4	\$0.11	Yes	\$999.99	\$999.88
423	21-Apr-11	20	5	\$2.06	Yes	\$999.99	\$997.93
424	21-Apr-11	20	6	\$21.37	Yes	\$999.99	\$978.62
425	21-Apr-11	20	7	\$28.27	Yes	\$999.99	\$971.72
426	21-Apr-11	20	8	\$29.41	Yes	\$999.99	\$970.58
427	21-Apr-11	20	9	\$30.34	Yes	\$999.99	\$969.65
428	21-Apr-11	20	10	\$42.92	Yes	\$999.99	\$957.07
429	21-Apr-11	20	11	\$30.36	Yes	\$999.99	\$969.63
430	21-Apr-11	20	12	\$30.36	Yes	\$999.99	\$969.63
431	21-Apr-11	21	1	\$84.15	Yes	\$999.99	\$915.84
432	21-Apr-11	21	2	\$79.20	Yes	\$999.99	\$920.79
433	21-Apr-11	21	3	\$21.45	Yes	\$999.99	\$978.54
434	21-Apr-11	21	4	\$31.82	Yes	\$999.99	\$968.17
435	21-Apr-11	21	5	\$42.97	Yes	\$999.99	\$957.02
436	21-Apr-11	21	6	\$50.60	Yes	\$999.99	\$949.39
437	21-Apr-11	21	7	\$50.61	Yes	\$999.99	\$949.38
438	21-Apr-11	21	8	\$79.19	Yes	\$999.99	\$920.80
439	21-Apr-11	21	9	\$57.26	Yes	\$999.99	\$942.73
440	21-Apr-11	21	10	\$30.35	Yes	\$999.99	\$969.64
441	21-Apr-11	21	11	\$30.35	Yes	\$999.99	\$969.64
442	21-Apr-11	21	12	\$33.82	Yes	\$999.99	\$966.17
443	21-Apr-11	22	1	\$78.86	Yes	\$999.99	\$921.13
444	21-Apr-11	22	2	\$46.45	Yes	\$999.99	\$953.54
445	21-Apr-11	22	3	\$28.35	Yes	\$999.99	\$971.64
446	21-Apr-11	22	4	\$28.34	Yes	\$999.99	\$971.65

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
447	21-Apr-11	22	5	\$26.25	Yes	\$999.99	\$973.74
448	21-Apr-11	22	6	\$30.44	Yes	\$999.99	\$969.55
449	21-Apr-11	22	7	\$29.15	Yes	\$999.99	\$970.84
450	21-Apr-11	22	8	\$21.33	Yes	\$999.99	\$978.66
451	21-Apr-11	22	9	\$0.11	Yes	\$999.99	\$999.88
452	21-Apr-11	22	10	\$0.10	Yes	\$999.99	\$999.89
453	21-Apr-11	22	11	\$1.13	Yes	\$999.99	\$998.86
454	21-Apr-11	22	12	\$0.10	Yes	\$999.99	\$999.89
455	21-Apr-11	23	1	\$42.53	Yes	\$32.18	-\$10.35
456	21-Apr-11	23	2	\$81.27	Yes	\$32.18	-\$49.09
457	21-Apr-11	23	3	\$51.17	Yes	\$32.18	-\$18.99
458	21-Apr-11	23	4	\$36.10	Yes	\$32.18	-\$3.92
459	21-Apr-11	23	5	\$1.48	Yes	\$32.18	\$30.70
460	21-Apr-11	23	6	\$0.11	Yes	\$32.18	\$32.07
461	21-Apr-11	23	7	\$27.55	Yes	\$32.18	\$4.63
462	21-Apr-11	23	8	\$0.11	Yes	\$32.18	\$32.07
463	21-Apr-11	23	9	\$0.11	Yes	\$32.18	\$32.07
464	21-Apr-11	23	10	-\$0.03	Yes	\$32.18	\$32.21
465	21-Apr-11	23	11	-\$0.01	Yes	\$32.18	\$32.19
466	21-Apr-11	23	12	-\$0.01	Yes	\$32.18	\$32.19
467	28-Apr-11	17	6	\$1,021.14	Yes	\$999.99	-\$21.15
468	28-Apr-11	17	7	\$1,017.82	Yes	\$999.99	-\$17.83
469	28-Apr-11	17	8	\$1,018.71	Yes	\$999.99	-\$18.72
470	28-Apr-11	17	9	\$1,017.39	Yes	\$999.99	-\$17.40
471	28-Apr-11	17	10	\$1,017.06	Yes	\$999.99	-\$17.07
472	28-Apr-11	17	10	\$1,017.06	Yes	\$999.99	-\$17.07
473	28-Apr-11	17	11	\$1,017.13	Yes	\$999.99	-\$17.14
474	28-Apr-11	17	11	\$1,017.13	Yes	\$999.99	-\$17.14
475	28-Apr-11	17	12	\$1,017.13	Yes	\$999.99	-\$17.14
476	28-Apr-11	17	12	\$1,017.13	Yes	\$999.99	-\$17.14
477	28-Apr-11	18	1	\$51.61	Yes	\$999.99	\$948.38
478	28-Apr-11	18	2	\$35.07	Yes	\$999.99	\$964.92
479	28-Apr-11	18	3	\$44.52	Yes	\$999.99	\$955.47
480	28-Apr-11	18	4	\$55.24	Yes	\$999.99	\$944.75
481	28-Apr-11	18	5	\$53.29	Yes	\$999.99	\$946.70
482	28-Apr-11	18	6	\$42.72	Yes	\$999.99	\$957.27
483	28-Apr-11	18	7	\$31.63	Yes	\$999.99	\$968.36
484	28-Apr-11	18	8	\$43.15	Yes	\$999.99	\$956.84
485	28-Apr-11	18	9	\$43.15	Yes	\$999.99	\$956.84
486	28-Apr-11	18	10	\$76.49	Yes	\$999.99	\$923.50
487	28-Apr-11	18	11	\$86.35	Yes	\$999.99	\$913.64
488	28-Apr-11	18	12	\$107.83	Yes	\$999.99	\$892.16
489	28-Apr-11	19	1	\$91.83	Yes	\$999.99	\$908.16
490	28-Apr-11	19	2	\$76.39	Yes	\$999.99	\$923.60
491	28-Apr-11	19	3	\$76.39	Yes	\$999.99	\$923.60

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
492	28-Apr-11	19	4	\$59.44	Yes	\$999.99	\$940.55
493	28-Apr-11	19	5	\$53.17	Yes	\$999.99	\$946.82
494	28-Apr-11	19	6	\$55.42	Yes	\$999.99	\$944.57
495	28-Apr-11	19	7	\$56.25	Yes	\$999.99	\$943.74
496	28-Apr-11	19	8	\$83.59	Yes	\$999.99	\$916.40
497	28-Apr-11	19	9	\$86.38	Yes	\$999.99	\$913.61
498	28-Apr-11	19	10	\$0.49	Yes	\$999.99	\$999.50
499	28-Apr-11	19	11	\$13.59	Yes	\$999.99	\$986.40
500	28-Apr-11	19	12	\$13.59	Yes	\$999.99	\$986.40
501	28-Apr-11	20	1	-\$1.11	Yes	\$999.99	\$1,001.10
502	28-Apr-11	20	2	-\$6.51	Yes	\$999.99	\$1,006.50
503	28-Apr-11	20	3	-\$1.14	Yes	\$999.99	\$1,001.13
504	28-Apr-11	20	4	-\$0.04	Yes	\$999.99	\$1,000.03
505	28-Apr-11	20	5	\$0.00	Yes	\$999.99	\$999.99
506	28-Apr-11	20	6	\$0.00	Yes	\$999.99	\$999.99
507	28-Apr-11	20	7	\$8.87	Yes	\$999.99	\$991.12
508	28-Apr-11	20	8	\$31.22	Yes	\$999.99	\$968.77
509	28-Apr-11	20	9	\$35.53	Yes	\$999.99	\$964.46
510	28-Apr-11	20	10	\$40.40	Yes	\$999.99	\$959.59
511	28-Apr-11	20	11	\$40.40	Yes	\$999.99	\$959.59
512	28-Apr-11	20	12	\$83.74	Yes	\$999.99	\$916.25
513	28-Apr-11	21	1	\$85.80	Yes	\$999.99	\$914.19
514	28-Apr-11	21	2	\$91.25	Yes	\$999.99	\$908.74
515	28-Apr-11	21	3	\$32.97	Yes	\$999.99	\$967.02
516	28-Apr-11	21	4	\$85.81	Yes	\$999.99	\$914.18
517	28-Apr-11	21	5	\$85.81	Yes	\$999.99	\$914.18
518	28-Apr-11	21	6	\$83.72	Yes	\$999.99	\$916.27
519	28-Apr-11	21	7	\$51.99	Yes	\$999.99	\$948.00
520	28-Apr-11	21	8	\$51.99	Yes	\$999.99	\$948.00
521	28-Apr-11	21	9	\$45.47	Yes	\$999.99	\$954.52
522	28-Apr-11	21	10	\$42.71	Yes	\$999.99	\$957.28
523	28-Apr-11	21	11	\$32.50	Yes	\$999.99	\$967.49
524	28-Apr-11	21	12	\$32.50	Yes	\$999.99	\$967.49

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In April 2011, the ISO applied the exceptional dispatch bid mitigation to the exceptional dispatches that are noncompetitive TMODELS⁸ and Delta Dispatch. Table 10 shows the costs by instruction type in April. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$3,805. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$5,009. The cost saving from the exceptional dispatch bid mitigation was \$1,204.

Table 10: Bid Mitigation Analysis for April

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
TMODEL5	2	\$5,009	\$3,805	\$1,204
Total	2	\$5,009	\$3,805	\$1,204

⁸ The non-competitive “TMODEL” exceptional dispatches include: TMODEL4 (if more than one participating transmission owner is affected), TMODEL5 (if only PG&E is affected), TMODEL6 (if only SCE is affected) and TMODEL 7 (if only SDG&E is affected).

CERTIFICATE OF SERVICE

I hereby certify that I have served the foregoing document upon the parties listed on the official service lists in the above-referenced proceedings, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated at Folsom, California this 1st day of August, 2011.

Is/ Anna Pascuzzo

Anna Pascuzzo