



California Independent
System Operator Corporation

March 30, 2012

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-____
December 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 by the Commission's May 4 Order.

The attached report provides Chart 2 data for the month of December 2011. The attached Chart 2 report also includes the price impact analysis for the month of December 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 December 2011.

Respectfully submitted,

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Exceptional Dispatch Report

Table 2: December 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 December 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 December is presented in Appendix B. This report also includes the degree of mitigation analysis for December 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 December 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 December 2011, the ISO issued exceptional dispatches for the following local area generation requirements: (1) G-219, SCE area generation requirements. Exceptional dispatch instructions were also issued for the following transmission management requirements: (1) T-103, Southern California import transmission (SCIT) nomogram; (2) T-132, transmission facilities in San Diego and Imperial Valley area; (3) T-138, transmission facilities in Humboldt area; (4) T-169, Julian Hinds-Mirage 230 kV line overload mitigation & Eagle Mountain bank emergency mitigation; and (5) 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 December 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; and (2) 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 December, 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 December. 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. There was no designation of capacity under Capacity Procurement Mechanism (CPM) in December 2011.

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 December 2011

**California Independent System Operator Corporation
Exceptional Dispatch Report
March 30, 2012**

Chart 2: Table of Exceptional Dispatches for Period 01/December/2011 - 31/December/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	Dispatch Modification	PG&E	N/A	30-Dec-11	450	No	INC	2	19:16	20:49	-148.56	\$0	\$0	\$3,042	\$0	\$0	\$0	\$0	\$0	\$0
2	RT	Dispatch Modification	SDG&E	N/A	30-Dec-11	510- 559	No	INC	1	19:02	19:51	16.87	\$0	\$0	(\$378)	\$5	(\$106)	\$0	\$0	\$0	\$0
3	RT	ELC Commitment	PG&E	N/A	4-Dec-11	52	No	INC	8	16:00	23:59	556.64	\$28,854	\$113,265	(\$18,931)	\$0	\$0	\$0	\$0	\$0	\$0
4	RT	G-219	SCE	LA Basin	1-Dec-11	20	Yes	INC	24	0:00	23:59	1,281.58	\$40,824	\$0	(\$32,566)	\$171	(\$6,168)	\$0	\$0	\$0	\$0
5	RT	G-219	SCE	LA Basin	4-Dec-11	20	Yes	INC	14	10:00	23:59	944.95	\$31,752	\$0	(\$33,637)	\$0	\$0	\$0	\$0	\$0	\$0
6	RT	G-219	SCE	LA Basin	12-Dec-11	34	No	DEC	2	11:00	12:59	-12.31	\$0	\$0	\$366	\$0	\$0	\$0	\$0	\$0	\$0
7	RT	G-219	SCE	LA Basin	12-Dec-11	37	No	INC	2	11:00	12:59	51.03	\$0	\$0	(\$2,084)	\$8	(\$269)	\$0	\$0	(\$22)	\$0
8	RT	G-219	SCE	LA Basin	13-Dec-11	98	No	DEC	1	17:25	17:59	-64.81	\$0	\$0	\$2,091	\$0	\$0	\$0	\$0	\$0	\$0
9	RT	G-219	SCE	LA Basin	13-Dec-11	58- 155	No	INC	2	17:40	18:59	22.04	\$2,159	\$276	(\$388)	\$46	(\$1,346)	\$0	\$0	(\$256)	\$0
10	RT	G-219	SCE	LA Basin	15-Dec-11	9- 161	No	DEC	5	15:55	19:59	-209.08	\$0	\$0	\$7,067	\$8	(\$235)	\$0	\$0	(\$74)	\$0
11	RT	G-219	SCE	LA Basin	16-Dec-11	21- 97	Yes	DEC	4	16:15	19:59	-103.06	\$0	\$0	\$3,149	\$0	\$0	\$0	\$0	\$0	\$0
12	RT	G-219	SCE	LA Basin	16-Dec-11	45	Yes	INC	4	16:15	19:59	27.00	\$0	\$0	(\$669)	\$25	(\$623)	\$0	\$0	(\$196)	\$0
13	RT	G-219	SCE	LA Basin	19-Dec-11	20	Yes	INC	19	5:00	23:59	569.83	\$43,092	\$26,857	(\$15,377)	\$169	(\$5,334)	\$0	\$0	\$0	\$0
14	RT	G-219	SCE	LA Basin	20-Dec-11	10	Yes	INC	24	0:00	23:59	271.29	\$49,008	\$0	(\$7,281)	\$0	\$0	\$0	\$0	\$0	\$0
15	RT	Gas/Fuel Supply Limitation	SCE	LA Basin	8-Dec-11	132	No	DEC	1	9:05	9:59	-116.76	\$0	\$0	\$3,273	(\$112)	\$0	\$3,142	\$0	\$0	\$0
16	RT	Gas/Fuel Supply Limitation	SCE	N/A	8-Dec-11	123- 184	No	INC	4	8:55	11:29	656.45	\$0	\$0	(\$20,227)	\$0	\$0	\$0	\$0	\$0	\$0
17	RT	Gas/Fuel Supply Limitation	SDG&E	San Diego	8-Dec-11	290- 571	No	INC	3	8:55	10:59	-897.34	\$0	\$0	\$23,149	(\$897)	\$0	\$23,149	\$0	\$0	\$0
18	RT	Intertie Emergency Assistance	N/A	N/A	17-Dec-11	80	No	INC	1	7:25	7:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	RT	Intertie Emergency Assistance	N/A	N/A	22-Dec-11	30- 60	No	INC	2	13:26	14:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	RT	MSG Plant Startup	N/A	N/A	2-Dec-11	2	Yes	DEC	1	12:25	12:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	RT	MSG Plant Startup	N/A	N/A	2-Dec-11	13	Yes	INC	1	12:45	12:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
22	RT	MSG Plant Startup	N/A	N/A	5-Dec-11	0	Yes	DEC	8	8:00	15:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	RT	MSG Plant Startup	N/A	N/A	5-Dec-11	16- 41	Yes	INC	8	8:00	15:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	RT	MSG Plant Startup	N/A	N/A	22-Dec-11	197	Yes	INC	2	18:15	19:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	RT	Missing Bids	N/A	N/A	2-Dec-11	200	Yes	DEC	8	8:00	15:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	RT	Ramp Rate	PG&E	N/A	21-Dec-11	97- 101	No	INC	5	15:55	19:59	697.05	\$21,384	\$0	(\$17,314)	\$8	(\$196)	\$0	\$0	\$0	\$0

Department of Market Analysis and Development – 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
27	RT	Ramp Rate	SCE	LA Basin	1-Dec-11	65	Yes	INC	4	15:11	18:59	248.14	\$8,694	\$0	(\$8,127)	\$171	(\$6,168)	\$0	\$0	\$0	\$0
28	RT	Ramp Rate	SCE	LA Basin	6-Dec-11	217- 342	No	DEC	5	15:30	19:59	-647.75	\$0	\$0	\$20,546	\$0	\$0	\$0	\$0	\$0	\$0
29	RT	Ramp Rate	SCE	LA Basin	6-Dec-11	65	No	INC	5	15:30	19:59	87.20	\$0	\$0	(\$3,365)	\$87	(\$3,365)	\$0	\$0	\$0	\$0
30	RT	Ramp Rate	SCE	LA Basin	7-Dec-11	41- 396	No	DEC	4	15:30	18:59	-208.38	\$0	\$0	\$6,801	\$0	\$0	\$0	\$0	\$0	\$0
31	RT	Ramp Rate	SCE	LA Basin	7-Dec-11	3- 66	No	INC	4	15:30	18:59	36.06	\$0	\$0	(\$1,341)	\$31	(\$1,202)	\$0	\$0	\$0	\$0
32	RT	Ramp Rate	SCE	LA Basin	8-Dec-11	42- 391	No	DEC	15	5:00	19:29	-505.95	\$0	\$0	\$18,878	\$0	\$0	\$0	\$0	\$0	\$0
33	RT	Ramp Rate	SCE	LA Basin	8-Dec-11	21- 66	No	INC	15	5:00	19:29	105.11	\$0	\$0	(\$3,870)	\$90	(\$3,424)	\$0	\$0	\$0	\$0
34	RT	Ramp Rate	SCE	LA Basin	9-Dec-11	42- 97	No	DEC	16	5:10	20:59	-319.70	\$0	\$0	\$10,561	\$0	\$0	\$0	\$0	\$0	\$0
35	RT	Ramp Rate	SCE	LA Basin	9-Dec-11	45- 110	No	INC	16	5:00	20:59	161.12	\$0	\$0	(\$5,566)	\$149	(\$5,167)	\$0	\$0	\$0	\$0
36	RT	Ramp Rate	SCE	LA Basin	12-Dec-11	42- 158	No	DEC	5	15:00	19:59	-323.88	\$0	\$0	\$14,672	\$0	\$0	\$0	\$0	\$0	\$0
37	RT	Ramp Rate	SCE	LA Basin	13-Dec-11	42- 158	No	DEC	3	15:00	17:59	-114.26	\$0	\$0	\$3,401	\$0	\$0	\$0	\$0	\$0	\$0
38	RT	Ramp Rate	SCE	LA Basin	13-Dec-11	45	No	INC	3	15:00	17:59	43.34	\$0	\$0	(\$1,440)	\$41	(\$1,389)	\$0	\$0	\$0	\$0
39	RT	Ramp Rate	SCE	LA Basin	17-Dec-11	20- 140	No	INC	6	14:45	19:59	316.64	\$0	\$0	(\$11,432)	\$317	(\$11,467)	\$0	\$0	\$0	\$0
40	RT	Ramp Rate	SCE	LA Basin	19-Dec-11	65	Yes	INC	4	16:15	19:59	247.72	\$8,694	\$5,419	(\$7,485)	\$169	(\$5,334)	\$0	\$0	\$0	\$0
41	RT	Ramp Rate	SDG&E	San Diego	20-Dec-11	17	Yes	INC	7	13:30	19:59	154.47	\$6,083	\$523	(\$3,991)	\$0	\$0	\$0	\$0	\$0	\$0
42	RT	Ramp Rate	SDG&E	San Diego	26-Dec-11	215	No	INC	5	15:10	19:59	1,304.15	\$12,190	\$1,000	(\$37,660)	\$331	(\$12,768)	\$0	\$0	\$0	\$0
43	RT	Ramp Rate	SDG&E	San Diego	27-Dec-11	65	No	INC	6	14:58	19:59	330.45	\$1,985	\$0	(\$8,757)	\$14	(\$554)	\$0	\$0	\$0	\$0
44	RT	Risk Predictor	SCE	LA Basin	18-Dec-11	10	Yes	INC	24	0:00	23:59	239.17	\$40,224	\$0	(\$4,233)	\$0	\$0	\$0	\$0	\$0	\$0
45	RT	Risk Predictor	SDG&E	San Diego	26-Dec-11	200	No	INC	17	7:00	23:59	3,694.86	\$101,661	\$23,124	(\$92,735)	\$0	(\$5)	\$0	(\$1)	\$0	\$0
46	RT	Software Error	SDG&E	San Diego	26-Dec-11	20- 90	No	INC	10	13:00	22:59	288.26	\$0	\$0	(\$7,613)	\$0	\$0	\$0	\$0	\$0	\$0
47	RT	Software Limitation	N/A	N/A	2-Dec-11	241	Yes	DEC	3	15:55	17:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
48	RT	Software Limitation	N/A	N/A	28-Dec-11	0	Yes	INC	2	19:05	20:04	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
49	RT	Software Limitation	N/A	N/A	31-Dec-11	25	Yes	DEC	1	12:50	12:54	-2.22	\$0	\$0	\$53	(\$2)	\$0	\$41	\$0	\$0	\$0
50	RT	Software Limitation	PG&E	Bay Area	1-Dec-11	0	Yes	INC	2	5:45	6:44	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
51	RT	Software Limitation	PG&E	Fresno	10-Dec-11	0	Yes	INC	2	22:35	23:04	2.67	\$0	\$26	(\$89)	\$0	\$0	\$0	\$0	\$0	\$0
52	RT	Software Limitation	PG&E	Fresno	11-Dec-11	46- 96	Yes	DEC	4	19:30	22:19	-130.05	\$0	\$0	\$2,906	(\$75)	\$0	\$929	\$0	\$0	\$0
53	RT	Software Limitation	PG&E	Fresno	11-Dec-11	0	Yes	INC	3	20:20	22:19	13.79	\$0	\$0	(\$478)	\$0	\$0	\$0	\$0	\$0	\$0
54	RT	Software Limitation	PG&E	Fresno	14-Dec-11	0	Yes	INC	2	9:55	10:24	3.00	\$400	\$64	(\$83)	\$0	\$0	\$0	\$0	\$0	\$0
55	RT	Software Limitation	PG&E	Fresno	20-Dec-11	22	No	INC	8	12:10	19:59	908.67	\$31,177	\$1,526	(\$23,547)	\$0	\$0	\$0	\$0	\$0	\$0
56	RT	Software Limitation	PG&E	N/A	1-Dec-11	0	Yes	INC	2	5:45	6:44	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
57	RT	Software Limitation	PG&E	N/A	16-Dec-11	97	No	INC	2	13:15	14:14	87.09	\$2,890	\$0	(\$2,316)	\$0	\$0	\$0	\$0	\$0	\$0
58	RT	Software Limitation	PG&E	N/A	22-Dec-11	197	Yes	INC	2	18:00	19:59	725.53	\$21,678	\$1,442	(\$19,224)	\$0	\$0	\$0	\$0	\$0	\$0
59	RT	Software Limitation	PG&E	N/A	26-Dec-11	147	No	INC	1	10:26	10:54	61.25	\$2,023	\$473	(\$1,304)	\$12	(\$258)	\$0	\$0	\$0	\$0
60	RT	Software Limitation	PG&E	N/A	28-Dec-11	0	No	INC	2	18:30	19:09	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Department of Market Analysis and Development – 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
61	RT	Software Limitation	SCE	LA Basin	5-Dec-11	0	Yes	INC	1	19:16	19:59	0.60	\$0	\$0	(\$28)	\$0	\$0	\$0	\$0	\$0	\$0
62	RT	Software Limitation	SCE	LA Basin	9-Dec-11	0	No	INC	1	5:00	5:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63	RT	Software Limitation	SCE	LA Basin	11-Dec-11	0	Yes	INC	3	17:30	19:14	1.48	\$0	\$636	(\$47)	\$0	\$0	\$0	\$0	\$0	\$0
64	RT	Software Limitation	SCE	LA Basin	12-Dec-11	0	Yes	INC	11	12:30	22:59	1.28	\$0	\$7	(\$56)	\$0	\$0	\$0	\$0	\$0	\$0
65	RT	Software Limitation	SCE	LA Basin	13-Dec-11	0	Yes	INC	2	21:30	22:29	0.00	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
66	RT	Software Limitation	SCE	LA Basin	14-Dec-11	0	Yes	INC	3	21:40	23:14	3.91	\$0	\$0	(\$131)	\$0	\$0	\$0	\$0	\$0	\$0
67	RT	Software Limitation	SCE	LA Basin	15-Dec-11	0	Yes	INC	2	21:45	22:44	1.40	\$127	\$0	(\$37)	\$0	\$0	\$0	\$0	\$0	\$0
68	RT	Software Limitation	SCE	LA Basin	17-Dec-11	0	Yes	INC	2	22:25	23:24	1.40	\$127	\$0	(\$39)	\$0	\$0	\$0	\$0	\$0	\$0
69	RT	Software Limitation	SCE	LA Basin	22-Dec-11	0	Yes	INC	2	21:40	22:39	0.00	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
70	RT	Software Limitation	SCE	LA Basin	23-Dec-11	0	Yes	INC	22	0:25	21:59	1.67	\$0	\$0	(\$40)	\$0	\$0	\$0	\$0	\$0	\$0
71	RT	Software Limitation	SCE	LA Basin	26-Dec-11	0	No	INC	9	15:00	23:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
72	RT	Software Limitation	SDG&E	N/A	2-Dec-11	145	No	INC	2	17:30	18:59	-540.91	\$0	\$0	\$13,581	\$0	\$0	\$0	\$0	\$0	\$0
73	RT	Software Limitation	SDG&E	San Diego	2-Dec-11	281	No	INC	3	15:42	17:59	-565.91	\$2,870	\$0	\$12,433	\$0	\$0	\$0	\$0	\$0	\$0
74	RT	Software Limitation	SDG&E	San Diego	8-Dec-11	0	Yes	INC	2	5:45	6:59	1.76	\$0	\$0	(\$56)	\$0	\$0	\$0	\$0	\$0	\$0
75	RT	Software Limitation	SDG&E	San Diego	13-Dec-11	0	Yes	INC	3	5:45	7:09	3.20	\$600	\$0	(\$90)	\$0	\$0	\$0	\$0	\$0	\$0
76	RT	Software Limitation	SDG&E	San Diego	15-Dec-11	0	Yes	INC	2	5:45	6:59	1.90	\$0	\$0	(\$44)	\$0	\$0	\$0	\$0	\$0	\$0
77	RT	Software Limitation	SDG&E	San Diego	16-Dec-11	0	Yes	INC	1	19:15	19:44	3.75	\$0	\$21	(\$116)	\$0	\$0	\$0	\$0	\$0	\$0
78	RT	Software Limitation	SDG&E	San Diego	21-Dec-11	0	Yes	INC	1	22:30	22:59	0.00	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0
79	RT	Software Limitation	SDG&E	San Diego	26-Dec-11	20- 90	No	INC	6	12:50	17:59	105.10	\$0	\$0	(\$2,799)	\$0	\$0	\$0	\$0	\$0	\$0
80	RT	System Energy	N/A	N/A	2-Dec-11	200- 625	Yes	INC	12	5:00	16:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
81	RT	System Energy	N/A	N/A	7-Dec-11	604	Yes	INC	1	5:00	5:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
82	RT	System Energy	N/A	N/A	9-Dec-11	1297	Yes	INC	1	16:00	16:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
83	RT	System Energy	N/A	N/A	12-Dec-11	300	Yes	INC	1	14:00	14:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
84	RT	System Energy	N/A	N/A	14-Dec-11	885	Yes	INC	1	16:00	16:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85	RT	System Energy	N/A	N/A	16-Dec-11	550	Yes	INC	1	16:00	16:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
86	RT	System Energy	N/A	N/A	17-Dec-11	104- 129	No	DEC	1	13:00	13:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
87	RT	System Energy	N/A	N/A	17-Dec-11	600-1000	Yes	INC	4	13:00	16:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
88	RT	System Energy	N/A	N/A	19-Dec-11	200	Yes	INC	1	1:00	1:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
89	RT	System Energy	N/A	N/A	20-Dec-11	200	Yes	INC	1	12:00	12:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90	RT	T-103	SCE	LA Basin	5-Dec-11	20	Yes	INC	12	12:00	23:59	474.63	\$28,426	\$26,089	(\$35,073)	\$0	\$0	\$0	\$0	\$0	\$0
91	RT	T-132	N/A	N/A	1-Dec-11	241	No	DEC	13	7:45	19:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
92	RT	T-132	SDG&E	N/A	5-Dec-11	550	No	INC	6	17:45	22:59	-139.68	\$4,878	\$0	\$4,855	(\$149)	\$0	\$5,802	\$0	(\$5,358)	\$0
93	RT	T-132	SDG&E	San Diego	1-Dec-11	290	No	INC	11	1:25	11:40	2,240.36	\$64,336	\$0	\$22,470	\$0	\$0	\$0	\$0	\$0	\$0
94	RT	T-138	PG&E	Humboldt	5-Dec-11	29	No	INC	4	19:20	22:59	49.84	\$1,625	\$0	(\$3,141)	\$8	(\$289)	\$0	\$0	(\$55)	\$0
95	RT	T-138	PG&E	Humboldt	7-Dec-11	61	No	INC	1	23:00	23:53	14.60	\$1,026	\$0	(\$470)	\$3	(\$109)	\$0	\$0	\$0	\$0

Department of Market Analysis and Development – 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
96	RT	T-138	PG&E	Humboldt	10-Dec-11	32	No	INC	1	22:00	22:59	10.20	\$513	\$0	(\$397)	\$0	\$0	\$0	\$0	\$0	\$0
97	RT	T-138	PG&E	Humboldt	12-Dec-11	30- 32	No	INC	12	11:50	22:29	20.25	\$898	\$0	(\$733)	\$5	(\$142)	\$0	\$0	(\$37)	\$0
98	RT	T-138	PG&E	Humboldt	13-Dec-11	32	No	INC	10	7:20	16:59	155.69	\$4,617	\$0	(\$5,170)	\$59	(\$1,931)	\$0	\$0	(\$325)	\$0
99	RT	T-138	PG&E	Humboldt	15-Dec-11	29	No	INC	4	19:49	22:25	32.06	\$1,154	\$0	(\$968)	\$10	(\$308)	\$0	\$0	(\$88)	\$0
100	RT	T-138	PG&E	Humboldt	23-Dec-11	29	No	INC	6	17:22	22:01	21.43	\$727	\$0	(\$848)	\$4	(\$161)	\$0	\$0	(\$11)	\$0
101	RT	T-169	SCE	N/A	5-Dec-11	1- 9	Yes	DEC	4	20:20	23:29	-103.70	\$0	\$0	\$3,546	(\$1)	\$0	\$87	\$0	(\$12)	\$0
102	RT	T-169	SCE	N/A	5-Dec-11	64	Yes	INC	4	20:20	23:29	20.57	\$0	\$0	(\$578)	\$0	\$0	\$0	\$0	\$0	\$0
103	RT	T-169	SCE	N/A	15-Dec-11	2	No	DEC	4	19:50	22:59	-164.99	\$0	\$0	\$4,089	(\$0)	\$0	\$11	\$0	(\$2)	\$0
104	RT	Telemetry Error	N/A	N/A	31-Dec-11	25	Yes	DEC	2	11:00	12:59	-22.01	\$0	\$0	\$524	(\$19)	\$0	\$463	\$0	\$0	\$0
105	RT	Telemetry Error	N/A	N/A	31-Dec-11	0	Yes	INC	2	11:00	12:59	45.40	\$0	\$0	(\$1,127)	\$0	\$0	\$0	\$0	\$0	\$0
106	RT	Transmission Outage PG&E	N/A	N/A	1-Dec-11	1	Yes	DEC	4	15:35	18:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
107	RT	Transmission Outage PG&E	N/A	N/A	1-Dec-11	28- 86	Yes	INC	5	14:10	18:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
108	RT	Transmission Outage PG&E	N/A	N/A	5-Dec-11	32	Yes	INC	6	10:20	15:59	0.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	RT	Transmission Outage PG&E	PG&E	Humboldt	1-Dec-11	29- 112	No	INC	24	0:00	23:59	526.05	\$18,950	\$0	(\$12,453)	\$116	(\$2,375)	\$0	\$0	(\$2,217)	\$0
110	RT	Transmission Outage PG&E	PG&E	Humboldt	2-Dec-11	30- 116	No	INC	24	0:00	23:59	462.03	\$12,691	\$0	(\$8,440)	\$116	(\$2,040)	\$2	\$0	(\$2,589)	\$0
111	RT	Transmission Outage PG&E	PG&E	Humboldt	3-Dec-11	15- 102	No	INC	24	0:00	23:59	752.05	\$25,684	\$0	(\$19,699)	\$140	(\$3,648)	\$0	\$0	(\$2,040)	\$0
112	RT	Transmission Outage PG&E	PG&E	Humboldt	4-Dec-11	32- 96	No	INC	24	0:00	23:59	725.27	\$18,216	\$0	(\$22,610)	\$188	(\$5,686)	\$0	\$0	(\$1,734)	\$0
113	RT	Transmission Outage PG&E	PG&E	Humboldt	5-Dec-11	64- 96	Yes	INC	18	0:00	17:59	649.26	\$16,673	\$0	(\$19,151)	\$225	(\$6,259)	\$0	\$0	(\$2,472)	\$0
114	RT	Transmission Outage PG&E	PG&E	N/A	19-Dec-11	5- 34	Yes	DEC	5	18:45	22:44	-90.25	\$0	\$0	\$2,384	(\$87)	\$0	\$2,294	\$0	(\$1,338)	\$0
115	RT	Transmission Outage PG&E	PG&E	Sierra	8-Dec-11	20	Yes	INC	3	10:15	12:59	73.55	\$4,180	\$0	(\$2,513)	\$0	\$0	\$0	\$0	\$0	\$0
116	RT	Transmission Outage SCE	SCE	Big Creek-Ventura	14-Dec-11	20- 215	Yes	INC	6	3:00	8:59	239.86	\$8,121	\$5,609	(\$5,785)	\$122	(\$2,812)	\$0	\$0	(\$3,311)	\$0
117	RT	Transmission Outage SCE	SCE	LA Basin	14-Dec-11	15- 139	No	DEC	13	6:40	18:59	-408.78	\$0	\$0	\$11,902	\$52	(\$1,343)	\$0	\$0	(\$550)	\$0
118	RT	Transmission Outage SCE	SCE	LA Basin	14-Dec-11	10- 248	No	INC	4	15:15	18:59	274.48	\$0	\$0	(\$6,334)	\$285	(\$6,525)	\$0	\$0	(\$3,661)	\$0
119	RT	Transmission Outage SCE	SCE	LA Basin	15-Dec-11	13- 42	No	DEC	3	13:50	15:59	60.20	\$0	\$0	(\$1,681)	\$59	(\$1,654)	\$0	\$0	(\$440)	\$0
120	RT	Transmission Outage SCE	SCE	LA Basin	15-Dec-11	122	No	INC	1	15:10	15:59	59.40	\$0	\$0	(\$1,659)	\$59	(\$1,654)	\$0	\$0	(\$440)	\$0
121	RT	Transmission Outage SDG&E	SDG&E	N/A	5-Dec-11	450	No	INC	8	8:20	15:59	1,101.22	\$0	\$0	(\$28,233)	(\$302)	\$0	(\$3,828)	\$0	(\$26)	\$0
122	RT	Transmission Outage SDG&E	SDG&E	San Diego	5-Dec-11	22	No	INC	8	8:15	15:59	254.39	\$21,276	\$797	(\$12,678)	\$0	\$0	\$0	\$0	\$0	\$0
123	RT	Unit Control	PG&E	Fresno	21-Dec-11	46	Yes	INC	3	19:30	21:59	89.94	\$0	\$0	(\$2,301)	\$0	\$0	\$0	\$0	\$0	\$0
124	RT	Unit Testing	N/A	N/A	19-Dec-11	1	No	INC	1	13:00	13:29	0.34	\$0	\$0	(\$8)	\$0	\$0	\$0	\$0	\$0	\$0
125	RT	Unit Testing	PG&E	N/A	8-Dec-11	175	No	DEC	1	14:35	14:44	-29.17	\$0	\$0	\$881	\$0	\$0	\$0	\$0	\$0	\$0
126	RT	Unit Testing	PG&E	N/A	22-Dec-11	141	Yes	INC	2	18:55	19:59	153.44	\$7,928	\$0	(\$4,027)	\$0	(\$1)	\$0	\$0	\$0	\$0
127	RT	Unit Testing	SCE	LA Basin	1-Dec-11	13	No	DEC	10	11:25	20:59	-102.83	\$0	\$0	\$2,564	\$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
128	RT	Unit Testing	SCE	LA Basin	1-Dec-11	87- 510	No	INC	11	10:25	20:59	95.89	\$82,236	\$0	(\$3,143)	\$45	(\$1,424)	\$0	\$0	\$0	\$0
129	RT	Unit Testing	SCE	LA Basin	20-Dec-11	160- 495	No	INC	5	9:08	13:45	-357.09	\$7,424	\$0	\$9,674	(\$5)	\$0	\$153	\$0	\$0	\$0
130	RT	Unit Testing	SDG&E	San Diego	7-Dec-11	50- 99	No	INC	3	16:24	18:59	220.80	\$8,696	\$0	(\$6,825)	\$9	(\$291)	\$0	(\$10)	\$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 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 column shows hour ending 5 as this was the hour ending for first dispatch of the day, and the End Time column 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.

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.

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 are 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 column shows the time of the first dispatch of the day. This is a time not a range. Similarly, the End Time column 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 charge code 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 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 8,928 five-minute intervals in December, this resource was issued exceptional dispatch instructions in 13 five-minute intervals. It was eligible to set the LMP in all 13 intervals. Resource calculated LMP was larger than the market LMP in all 13 intervals. In the 13 intervals, the average increase in five minute LMP was \$31.43/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 \$31.43/MWh. Note that 13 five minute intervals are approximately 0.15 percent of the total 8,928 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 8,928 five minute intervals in December, this resource was issued exceptional dispatch instructions in 1,582 five minute intervals. This resource was eligible to set the LMP in 1,053 of the 1,582 intervals. Out of the 1,053 intervals, resource calculated LMP was larger than the market LMP in 962 intervals. In the 962 intervals, the average increase in five minute LMP was \$10.92/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 \$10.92/MWh. The 962 five minute intervals account for approximately 10.78 percent of the total 8,928 five minute intervals.

Table 8: Price Impact Analysis Information for Pricing Node A in PGAE LAP

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	22-Dec-11	19	12	\$26.96	Yes	\$30.00	\$3.04
2	22-Dec-11	20	1	\$26.59	Yes	\$60.00	\$33.41
3	22-Dec-11	20	2	\$26.59	Yes	\$60.00	\$33.41
4	22-Dec-11	20	3	\$26.60	Yes	\$60.00	\$33.40
5	22-Dec-11	20	4	\$26.58	Yes	\$60.00	\$33.42
6	22-Dec-11	20	5	\$26.75	Yes	\$60.00	\$33.25
7	22-Dec-11	20	6	\$25.85	Yes	\$60.00	\$34.15
8	22-Dec-11	20	7	\$25.96	Yes	\$60.00	\$34.04
9	22-Dec-11	20	8	\$25.90	Yes	\$60.00	\$34.10
10	22-Dec-11	20	9	\$25.89	Yes	\$60.00	\$34.11
11	22-Dec-11	20	10	\$25.87	Yes	\$60.00	\$34.13
12	22-Dec-11	20	11	\$25.88	Yes	\$60.00	\$34.12
13	22-Dec-11	20	12	\$25.97	Yes	\$60.00	\$34.03

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	1-Dec-11	1	1	\$26.76	Yes	\$35.97	\$9.21
2	1-Dec-11	1	2	\$25.77	Yes	\$35.97	\$10.20
3	1-Dec-11	1	3	\$9.79	Yes	\$35.97	\$26.18
4	1-Dec-11	1	4	\$9.51	Yes	\$35.97	\$26.46
5	1-Dec-11	1	5	\$9.51	Yes	\$35.97	\$26.46
6	1-Dec-11	1	6	\$23.01	Yes	\$35.97	\$12.96
7	1-Dec-11	1	7	\$24.58	Yes	\$35.97	\$11.39
8	1-Dec-11	1	8	\$25.70	Yes	\$35.97	\$10.27
9	1-Dec-11	1	9	\$24.19	Yes	\$35.97	\$11.78
10	1-Dec-11	1	10	\$0.24	Yes	\$35.97	\$35.73
11	1-Dec-11	1	11	\$22.91	Yes	\$35.97	\$13.06
12	1-Dec-11	1	12	\$22.91	Yes	\$35.97	\$13.06
13	1-Dec-11	2	1	\$23.86	Yes	\$35.97	\$12.11
14	1-Dec-11	2	2	\$23.64	Yes	\$35.97	\$12.33
15	1-Dec-11	2	3	\$23.64	Yes	\$35.97	\$12.33
16	1-Dec-11	2	4	\$0.05	Yes	\$35.97	\$35.92
17	1-Dec-11	2	5	\$0.15	Yes	\$35.97	\$35.82
18	1-Dec-11	2	6	\$0.25	Yes	\$35.97	\$35.72
19	1-Dec-11	2	7	\$0.10	Yes	\$35.97	\$35.87
20	1-Dec-11	2	8	-\$0.04	Yes	\$35.97	\$36.01
21	1-Dec-11	2	9	-\$0.05	Yes	\$35.97	\$36.02
22	1-Dec-11	2	10	\$0.00	Yes	\$35.97	\$35.97
23	1-Dec-11	2	11	-\$29.74	Yes	\$35.97	\$65.71
24	1-Dec-11	2	12	-\$0.15	Yes	\$35.97	\$36.12
25	1-Dec-11	3	1	-\$34.34	Yes	\$35.97	\$70.31
26	1-Dec-11	3	2	\$0.01	Yes	\$35.97	\$35.96
27	1-Dec-11	3	3	\$0.01	Yes	\$35.97	\$35.96
28	1-Dec-11	3	4	-\$29.69	Yes	\$35.97	\$65.66
29	1-Dec-11	3	5	\$0.01	Yes	\$35.97	\$35.96
30	1-Dec-11	3	6	-\$29.69	Yes	\$35.97	\$65.66
31	1-Dec-11	3	7	-\$34.29	Yes	\$35.97	\$70.26
32	1-Dec-11	3	8	-\$34.30	Yes	\$35.97	\$70.27
33	1-Dec-11	3	9	\$0.01	Yes	\$35.97	\$35.96
34	1-Dec-11	3	10	-\$34.30	Yes	\$35.97	\$70.27
35	1-Dec-11	3	11	\$0.01	Yes	\$35.97	\$35.96
36	1-Dec-11	3	12	-\$34.30	Yes	\$35.97	\$70.27
37	1-Dec-11	4	1	\$0.05	Yes	\$35.97	\$35.92
38	1-Dec-11	4	2	\$0.28	Yes	\$35.97	\$35.69
39	1-Dec-11	4	3	-\$29.66	Yes	\$35.97	\$65.63
40	1-Dec-11	4	4	\$0.01	Yes	\$35.97	\$35.96
41	1-Dec-11	4	5	\$0.01	Yes	\$35.97	\$35.96

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
42	1-Dec-11	4	6	-\$0.05	Yes	\$35.97	\$36.02
43	1-Dec-11	4	7	-\$0.06	Yes	\$35.97	\$36.03
44	1-Dec-11	4	8	\$0.01	Yes	\$35.97	\$35.96
45	1-Dec-11	4	9	\$0.05	Yes	\$35.97	\$35.92
46	1-Dec-11	4	10	\$0.47	Yes	\$35.97	\$35.50
47	1-Dec-11	4	11	\$0.20	Yes	\$35.97	\$35.77
48	1-Dec-11	4	12	-\$0.03	Yes	\$35.97	\$36.00
49	1-Dec-11	5	1	\$0.29	Yes	\$35.97	\$35.68
50	1-Dec-11	5	2	\$0.01	Yes	\$35.97	\$35.96
51	1-Dec-11	5	3	-\$34.40	Yes	\$35.97	\$70.37
52	1-Dec-11	5	4	-\$34.43	Yes	\$35.97	\$70.40
53	1-Dec-11	5	5	-\$0.25	Yes	\$35.97	\$36.22
54	1-Dec-11	5	6	-\$0.17	Yes	\$35.97	\$36.14
55	1-Dec-11	5	7	-\$0.17	Yes	\$35.97	\$36.14
56	1-Dec-11	5	8	\$0.01	Yes	\$35.97	\$35.96
57	1-Dec-11	5	9	-\$0.35	Yes	\$35.97	\$36.32
58	1-Dec-11	5	10	\$0.04	Yes	\$35.97	\$35.93
59	1-Dec-11	5	11	\$0.26	Yes	\$35.97	\$35.71
60	1-Dec-11	5	12	\$0.31	Yes	\$35.97	\$35.66
61	1-Dec-11	6	1	\$0.30	Yes	\$35.97	\$35.67
62	1-Dec-11	6	2	\$0.30	Yes	\$35.97	\$35.67
63	1-Dec-11	6	3	-\$34.50	Yes	\$35.97	\$70.47
64	1-Dec-11	6	4	\$0.01	Yes	\$35.97	\$35.96
65	1-Dec-11	6	5	\$0.30	Yes	\$35.97	\$35.67
66	1-Dec-11	6	6	\$12.85	Yes	\$35.97	\$23.12
67	1-Dec-11	6	7	\$16.22	Yes	\$35.97	\$19.75
68	1-Dec-11	6	8	\$25.53	Yes	\$35.97	\$10.44
69	1-Dec-11	6	9	\$25.53	Yes	\$35.97	\$10.44
70	1-Dec-11	6	10	\$25.40	Yes	\$35.97	\$10.57
71	1-Dec-11	6	11	\$24.86	Yes	\$35.97	\$11.11
72	1-Dec-11	6	12	\$25.63	Yes	\$35.97	\$10.34
73	1-Dec-11	7	1	\$0.15	Yes	\$35.97	\$35.82
74	1-Dec-11	7	2	-\$28.25	Yes	\$35.97	\$64.22
75	1-Dec-11	7	3	-\$9.25	Yes	\$35.97	\$45.22
76	1-Dec-11	7	4	\$0.30	Yes	\$35.97	\$35.67
77	1-Dec-11	7	5	\$14.56	Yes	\$35.97	\$21.41
78	1-Dec-11	7	6	\$16.93	Yes	\$35.97	\$19.04
79	1-Dec-11	7	7	\$16.84	Yes	\$35.97	\$19.13
80	1-Dec-11	7	8	\$17.78	Yes	\$35.97	\$18.19
81	1-Dec-11	7	9	\$18.29	Yes	\$35.97	\$17.68
82	1-Dec-11	7	10	\$24.25	Yes	\$35.97	\$11.72
83	1-Dec-11	7	11	\$24.25	Yes	\$35.97	\$11.72
84	1-Dec-11	7	12	\$24.80	Yes	\$35.97	\$11.17
85	1-Dec-11	8	1	\$16.64	Yes	\$35.97	\$19.33
86	1-Dec-11	8	2	\$18.37	Yes	\$35.97	\$17.60

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
87	1-Dec-11	8	3	\$22.69	Yes	\$35.97	\$13.28
88	1-Dec-11	8	4	\$24.06	Yes	\$35.97	\$11.91
89	1-Dec-11	8	5	\$24.06	Yes	\$35.97	\$11.91
90	1-Dec-11	8	6	\$24.06	Yes	\$35.97	\$11.91
91	1-Dec-11	8	7	\$24.13	Yes	\$35.97	\$11.84
92	1-Dec-11	8	8	\$24.36	Yes	\$35.97	\$11.61
93	1-Dec-11	8	9	\$23.91	Yes	\$35.97	\$12.06
94	1-Dec-11	8	10	\$24.46	Yes	\$35.97	\$11.51
95	1-Dec-11	8	11	\$25.14	Yes	\$35.97	\$10.83
96	1-Dec-11	8	12	\$25.18	Yes	\$35.97	\$10.79
97	1-Dec-11	9	1	\$17.39	Yes	\$35.97	\$18.58
98	1-Dec-11	9	2	\$17.54	Yes	\$35.97	\$18.43
99	1-Dec-11	9	3	\$18.33	Yes	\$35.97	\$17.64
100	1-Dec-11	9	4	\$17.55	Yes	\$35.97	\$18.42
101	1-Dec-11	9	5	\$18.11	Yes	\$35.97	\$17.86
102	1-Dec-11	9	6	\$18.11	Yes	\$35.97	\$17.86
103	1-Dec-11	9	7	\$18.13	Yes	\$35.97	\$17.84
104	1-Dec-11	9	8	\$17.59	Yes	\$35.97	\$18.38
105	1-Dec-11	9	9	\$17.93	Yes	\$35.97	\$18.04
106	1-Dec-11	9	10	\$18.38	Yes	\$35.97	\$17.59
107	1-Dec-11	9	11	\$18.67	Yes	\$35.97	\$17.30
108	1-Dec-11	9	12	\$18.67	Yes	\$35.97	\$17.30
109	1-Dec-11	10	1	\$18.18	Yes	\$35.97	\$17.79
110	1-Dec-11	10	2	\$17.47	Yes	\$35.97	\$18.50
111	1-Dec-11	10	3	\$17.89	Yes	\$35.97	\$18.08
112	1-Dec-11	10	4	\$17.67	Yes	\$35.97	\$18.30
113	1-Dec-11	10	5	\$17.90	Yes	\$35.97	\$18.07
114	1-Dec-11	10	6	\$18.78	Yes	\$35.97	\$17.19
115	1-Dec-11	10	7	\$18.83	Yes	\$35.97	\$17.14
116	1-Dec-11	10	8	\$19.08	Yes	\$35.97	\$16.89
117	1-Dec-11	10	9	\$19.54	Yes	\$35.97	\$16.43
118	1-Dec-11	10	10	\$24.03	Yes	\$35.97	\$11.94
119	1-Dec-11	10	11	\$21.61	Yes	\$35.97	\$14.36
120	1-Dec-11	10	12	\$19.49	Yes	\$35.97	\$16.48
121	1-Dec-11	11	1	\$19.45	Yes	\$35.97	\$16.52
122	1-Dec-11	11	2	\$18.41	Yes	\$35.97	\$17.56
123	1-Dec-11	11	3	\$23.72	Yes	\$35.97	\$12.25
124	1-Dec-11	11	4	\$23.75	Yes	\$35.97	\$12.22
125	1-Dec-11	11	5	\$24.04	Yes	\$35.97	\$11.93
126	1-Dec-11	11	6	\$23.75	Yes	\$35.97	\$12.22
127	1-Dec-11	11	7	\$24.48	Yes	\$35.97	\$11.49
128	1-Dec-11	11	8	\$24.48	Yes	\$35.97	\$11.49
129	1-Dec-11	11	9	\$18.91	Yes	\$35.97	\$17.06
130	1-Dec-11	11	10	\$17.58	Yes	\$35.97	\$18.39
131	1-Dec-11	11	11	\$17.58	Yes	\$35.97	\$18.39

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132	1-Dec-11	11	12	\$17.87	Yes	\$35.97	\$18.10
133	1-Dec-11	12	1	\$18.11	Yes	\$35.97	\$17.86
134	1-Dec-11	12	2	\$19.40	Yes	\$35.97	\$16.57
135	1-Dec-11	12	3	\$23.49	Yes	\$35.97	\$12.48
136	1-Dec-11	12	4	\$19.32	Yes	\$35.97	\$16.65
137	1-Dec-11	12	5	\$23.93	Yes	\$35.97	\$12.04
138	1-Dec-11	12	6	\$24.81	Yes	\$35.97	\$11.16
139	1-Dec-11	12	7	\$25.14	Yes	\$35.97	\$10.83
140	1-Dec-11	12	8	\$25.11	Yes	\$35.97	\$10.86
141	1-Dec-11	12	9	\$24.95	Yes	\$35.97	\$11.02
142	1-Dec-11	12	10	\$24.73	Yes	\$35.97	\$11.24
143	1-Dec-11	12	11	\$24.73	Yes	\$35.97	\$11.24
144	1-Dec-11	12	12	\$24.73	Yes	\$35.97	\$11.24
145	1-Dec-11	13	1	\$25.58	Yes	\$35.97	\$10.39
146	1-Dec-11	13	2	\$24.96	Yes	\$35.97	\$11.01
147	1-Dec-11	13	3	\$25.80	Yes	\$35.97	\$10.17
148	1-Dec-11	13	4	\$29.20	Yes	\$35.97	\$6.77
149	1-Dec-11	13	5	\$26.60	Yes	\$35.97	\$9.37
150	1-Dec-11	13	6	\$30.19	Yes	\$35.97	\$5.78
151	1-Dec-11	13	7	\$26.94	Yes	\$35.97	\$9.03
152	1-Dec-11	13	8	\$26.61	Yes	\$35.97	\$9.36
153	1-Dec-11	13	9	\$25.88	Yes	\$35.97	\$10.09
154	1-Dec-11	13	10	\$26.56	Yes	\$35.97	\$9.41
155	1-Dec-11	13	11	\$26.56	Yes	\$35.97	\$9.41
156	1-Dec-11	13	12	\$26.56	Yes	\$35.97	\$9.41
157	1-Dec-11	14	1	\$25.75	Yes	\$35.97	\$10.22
158	1-Dec-11	14	2	\$25.75	Yes	\$35.97	\$10.22
159	1-Dec-11	14	3	\$26.54	Yes	\$35.97	\$9.43
160	1-Dec-11	14	4	\$26.59	Yes	\$35.97	\$9.38
161	1-Dec-11	14	5	\$25.81	Yes	\$35.97	\$10.16
162	1-Dec-11	14	6	\$25.11	Yes	\$35.97	\$10.86
163	1-Dec-11	14	7	\$25.62	Yes	\$35.97	\$10.35
164	1-Dec-11	14	8	\$25.76	Yes	\$35.97	\$10.21
165	1-Dec-11	14	9	\$25.76	Yes	\$35.97	\$10.21
166	1-Dec-11	14	10	\$25.80	Yes	\$35.97	\$10.17
167	1-Dec-11	14	11	\$25.67	Yes	\$35.97	\$10.30
168	1-Dec-11	14	12	\$24.87	Yes	\$35.97	\$11.10
169	1-Dec-11	15	1	\$24.87	Yes	\$35.97	\$11.10
170	1-Dec-11	15	2	\$24.87	Yes	\$35.97	\$11.10
171	1-Dec-11	15	3	\$24.89	Yes	\$35.97	\$11.08
172	1-Dec-11	15	4	\$24.99	Yes	\$35.97	\$10.98
173	1-Dec-11	15	5	\$24.99	Yes	\$35.97	\$10.98
174	1-Dec-11	15	6	\$24.88	Yes	\$35.97	\$11.09
175	1-Dec-11	15	7	\$24.93	Yes	\$35.97	\$11.04
176	1-Dec-11	15	8	\$24.93	Yes	\$35.97	\$11.04

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
177	1-Dec-11	15	9	\$24.93	Yes	\$35.97	\$11.04
178	1-Dec-11	15	10	\$24.95	Yes	\$35.97	\$11.02
179	1-Dec-11	15	11	\$24.95	Yes	\$35.97	\$11.02
180	1-Dec-11	15	12	\$23.97	Yes	\$35.97	\$12.00
181	1-Dec-11	16	1	\$23.96	Yes	\$35.97	\$12.01
182	1-Dec-11	16	2	\$23.96	Yes	\$35.97	\$12.01
183	1-Dec-11	16	3	\$24.42	Yes	\$38.95	\$14.53
184	1-Dec-11	16	3	\$24.42	Yes	\$35.97	\$11.55
185	1-Dec-11	16	4	\$24.78	Yes	\$38.95	\$14.17
186	1-Dec-11	16	4	\$24.78	Yes	\$35.97	\$11.19
187	1-Dec-11	16	5	\$24.78	Yes	\$38.95	\$14.17
188	1-Dec-11	16	5	\$24.78	Yes	\$35.97	\$11.19
189	1-Dec-11	16	6	\$24.78	Yes	\$38.95	\$14.17
190	1-Dec-11	16	6	\$24.78	Yes	\$35.97	\$11.19
191	1-Dec-11	16	7	\$24.87	Yes	\$35.97	\$11.10
192	1-Dec-11	16	7	\$24.87	Yes	\$38.95	\$14.08
193	1-Dec-11	16	8	\$24.94	Yes	\$35.97	\$11.03
194	1-Dec-11	16	8	\$24.94	Yes	\$38.95	\$14.01
195	1-Dec-11	16	9	\$25.12	Yes	\$35.97	\$10.85
196	1-Dec-11	16	9	\$25.12	Yes	\$38.95	\$13.83
197	1-Dec-11	16	10	\$25.21	Yes	\$35.97	\$10.76
198	1-Dec-11	16	10	\$25.21	Yes	\$38.95	\$13.74
199	1-Dec-11	16	11	\$25.29	Yes	\$35.97	\$10.68
200	1-Dec-11	16	11	\$25.29	Yes	\$38.95	\$13.66
201	1-Dec-11	16	12	\$25.29	Yes	\$38.95	\$13.66
202	1-Dec-11	16	12	\$25.29	Yes	\$35.97	\$10.68
203	1-Dec-11	17	1	\$13.82	Yes	\$35.97	\$22.15
204	1-Dec-11	17	1	\$13.82	Yes	\$38.95	\$25.13
205	1-Dec-11	17	2	\$16.26	Yes	\$35.97	\$19.71
206	1-Dec-11	17	2	\$16.26	Yes	\$38.95	\$22.69
207	1-Dec-11	17	3	\$17.63	Yes	\$35.97	\$18.34
208	1-Dec-11	17	3	\$17.63	Yes	\$38.95	\$21.32
209	1-Dec-11	17	4	\$18.52	Yes	\$35.97	\$17.45
210	1-Dec-11	17	4	\$18.52	Yes	\$38.95	\$20.43
211	1-Dec-11	17	5	\$18.00	Yes	\$35.97	\$17.97
212	1-Dec-11	17	5	\$18.00	Yes	\$38.95	\$20.95
213	1-Dec-11	17	6	\$18.52	Yes	\$35.97	\$17.45
214	1-Dec-11	17	6	\$18.52	Yes	\$38.95	\$20.43
215	1-Dec-11	17	7	\$21.62	Yes	\$35.97	\$14.35
216	1-Dec-11	17	7	\$21.62	Yes	\$38.95	\$17.33
217	1-Dec-11	17	8	\$25.12	Yes	\$38.95	\$13.83
218	1-Dec-11	17	8	\$25.12	Yes	\$35.97	\$10.85
219	1-Dec-11	17	9	\$26.91	Yes	\$35.97	\$9.06
220	1-Dec-11	17	9	\$26.91	Yes	\$38.95	\$12.04
221	1-Dec-11	17	10	\$25.79	Yes	\$38.95	\$13.16

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
222	1-Dec-11	17	10	\$25.79	Yes	\$35.97	\$10.18
223	1-Dec-11	17	11	\$27.86	Yes	\$38.95	\$11.09
224	1-Dec-11	17	11	\$27.86	Yes	\$35.97	\$8.11
225	1-Dec-11	17	12	\$29.24	Yes	\$38.95	\$9.71
226	1-Dec-11	17	12	\$29.24	Yes	\$35.97	\$6.73
227	1-Dec-11	18	1	\$25.65	Yes	\$38.95	\$13.30
228	1-Dec-11	18	1	\$25.65	Yes	\$35.97	\$10.32
229	1-Dec-11	18	2	\$25.96	Yes	\$38.95	\$12.99
230	1-Dec-11	18	2	\$25.96	Yes	\$35.97	\$10.01
231	1-Dec-11	18	3	\$26.75	Yes	\$38.95	\$12.20
232	1-Dec-11	18	3	\$26.75	Yes	\$35.97	\$9.22
233	1-Dec-11	18	4	\$28.05	Yes	\$35.97	\$7.92
234	1-Dec-11	18	4	\$28.05	Yes	\$38.95	\$10.90
235	1-Dec-11	18	5	\$29.08	Yes	\$35.97	\$6.89
236	1-Dec-11	18	5	\$29.08	Yes	\$38.95	\$9.87
237	1-Dec-11	18	6	\$29.10	Yes	\$35.97	\$6.87
238	1-Dec-11	18	6	\$29.10	Yes	\$38.95	\$9.85
239	1-Dec-11	18	7	\$29.25	Yes	\$35.97	\$6.72
240	1-Dec-11	18	7	\$29.25	Yes	\$38.95	\$9.70
241	1-Dec-11	18	8	\$28.04	Yes	\$35.97	\$7.93
242	1-Dec-11	18	8	\$28.04	Yes	\$38.95	\$10.91
243	1-Dec-11	18	9	\$29.06	Yes	\$35.97	\$6.91
244	1-Dec-11	18	9	\$29.06	Yes	\$38.95	\$9.89
245	1-Dec-11	18	10	\$28.98	Yes	\$35.97	\$6.99
246	1-Dec-11	18	10	\$28.98	Yes	\$38.95	\$9.97
247	1-Dec-11	18	11	\$28.98	Yes	\$38.95	\$9.97
248	1-Dec-11	18	11	\$28.98	Yes	\$35.97	\$6.99
249	1-Dec-11	18	12	\$29.41	Yes	\$35.97	\$6.56
250	1-Dec-11	18	12	\$29.41	Yes	\$38.95	\$9.54
251	1-Dec-11	19	1	\$29.10	Yes	\$35.97	\$6.87
252	1-Dec-11	19	1	\$29.10	Yes	\$38.95	\$9.85
253	1-Dec-11	19	2	\$29.10	Yes	\$35.97	\$6.87
254	1-Dec-11	19	2	\$29.10	Yes	\$38.95	\$9.85
255	1-Dec-11	19	3	\$29.10	Yes	\$35.97	\$6.87
256	1-Dec-11	19	3	\$29.10	Yes	\$38.95	\$9.85
257	1-Dec-11	19	4	\$29.14	Yes	\$38.95	\$9.81
258	1-Dec-11	19	4	\$29.14	Yes	\$35.97	\$6.83
259	1-Dec-11	19	5	\$28.49	Yes	\$38.95	\$10.46
260	1-Dec-11	19	5	\$28.49	Yes	\$35.97	\$7.48
261	1-Dec-11	19	6	\$28.13	Yes	\$35.97	\$7.84
262	1-Dec-11	19	6	\$28.13	Yes	\$38.95	\$10.82
263	1-Dec-11	19	7	\$26.43	Yes	\$38.95	\$12.52
264	1-Dec-11	19	7	\$26.43	Yes	\$35.97	\$9.54
265	1-Dec-11	19	8	\$26.63	Yes	\$35.97	\$9.34
266	1-Dec-11	19	8	\$26.63	Yes	\$38.95	\$12.32

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
267	1-Dec-11	19	9	\$26.02	Yes	\$38.95	\$12.93
268	1-Dec-11	19	9	\$26.02	Yes	\$35.97	\$9.95
269	1-Dec-11	19	10	\$25.58	Yes	\$35.97	\$10.39
270	1-Dec-11	19	10	\$25.58	Yes	\$38.95	\$13.37
271	1-Dec-11	19	11	\$25.74	Yes	\$35.97	\$10.23
272	1-Dec-11	19	11	\$25.74	Yes	\$38.95	\$13.21
273	1-Dec-11	19	12	\$24.96	Yes	\$38.95	\$13.99
274	1-Dec-11	19	12	\$24.96	Yes	\$35.97	\$11.01
275	1-Dec-11	20	1	\$25.08	Yes	\$35.97	\$10.89
276	1-Dec-11	20	2	\$25.88	Yes	\$35.97	\$10.09
277	1-Dec-11	20	3	\$26.76	Yes	\$35.97	\$9.21
278	1-Dec-11	20	4	\$27.32	Yes	\$35.97	\$8.65
279	1-Dec-11	20	5	\$27.11	Yes	\$35.97	\$8.86
280	1-Dec-11	20	6	\$26.72	Yes	\$35.97	\$9.25
281	1-Dec-11	20	7	\$27.45	Yes	\$35.97	\$8.52
282	1-Dec-11	20	8	\$26.67	Yes	\$35.97	\$9.30
283	1-Dec-11	20	9	\$26.35	Yes	\$35.97	\$9.62
284	1-Dec-11	20	10	\$26.01	Yes	\$35.97	\$9.96
285	1-Dec-11	20	11	\$26.01	Yes	\$35.97	\$9.96
286	1-Dec-11	20	12	\$25.66	Yes	\$35.97	\$10.31
287	1-Dec-11	21	1	\$28.07	Yes	\$35.97	\$7.90
288	1-Dec-11	21	2	\$28.07	Yes	\$35.97	\$7.90
289	1-Dec-11	21	3	\$40.23	Yes	\$35.97	-\$4.26
290	1-Dec-11	21	4	\$33.65	Yes	\$35.97	\$2.32
291	1-Dec-11	21	5	\$35.98	Yes	\$35.97	-\$0.01
292	1-Dec-11	21	6	\$33.65	Yes	\$35.97	\$2.32
293	1-Dec-11	21	7	\$34.80	Yes	\$35.97	\$1.17
294	1-Dec-11	21	8	\$28.06	Yes	\$35.97	\$7.91
295	1-Dec-11	21	9	\$28.19	Yes	\$35.97	\$7.78
296	1-Dec-11	21	10	\$27.68	Yes	\$35.97	\$8.29
297	1-Dec-11	21	11	\$27.18	Yes	\$35.97	\$8.79
298	1-Dec-11	21	12	\$26.85	Yes	\$35.97	\$9.12
299	1-Dec-11	22	1	\$29.35	Yes	\$35.97	\$6.62
300	1-Dec-11	22	2	\$29.19	Yes	\$35.97	\$6.78
301	1-Dec-11	22	3	\$28.17	Yes	\$35.97	\$7.80
302	1-Dec-11	22	4	\$23.42	Yes	\$35.97	\$12.55
303	1-Dec-11	22	5	\$23.59	Yes	\$35.97	\$12.38
304	1-Dec-11	22	6	\$23.71	Yes	\$35.97	\$12.26
305	1-Dec-11	22	7	\$25.00	Yes	\$35.97	\$10.97
306	1-Dec-11	22	8	\$25.34	Yes	\$35.97	\$10.63
307	1-Dec-11	22	9	\$24.59	Yes	\$35.97	\$11.38
308	1-Dec-11	22	10	\$20.05	Yes	\$35.97	\$15.92
309	1-Dec-11	22	11	\$18.77	Yes	\$35.97	\$17.20
310	1-Dec-11	22	12	\$18.27	Yes	\$35.97	\$17.70
311	1-Dec-11	23	1	\$30.53	Yes	\$35.97	\$5.44

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
312	1-Dec-11	23	2	\$26.99	Yes	\$35.97	\$8.98
313	1-Dec-11	23	3	\$25.60	Yes	\$35.97	\$10.37
314	1-Dec-11	23	4	\$25.16	Yes	\$35.97	\$10.81
315	1-Dec-11	23	5	\$25.16	Yes	\$35.97	\$10.81
316	1-Dec-11	23	6	\$24.24	Yes	\$35.97	\$11.73
317	1-Dec-11	23	7	\$23.90	Yes	\$35.97	\$12.07
318	1-Dec-11	23	8	\$23.09	Yes	\$35.97	\$12.88
319	1-Dec-11	23	9	\$20.23	Yes	\$35.97	\$15.74
320	1-Dec-11	23	10	\$22.12	Yes	\$35.97	\$13.85
321	1-Dec-11	23	11	\$18.24	Yes	\$35.97	\$17.73
322	1-Dec-11	23	12	\$18.24	Yes	\$35.97	\$17.73
323	1-Dec-11	24	1	\$22.31	Yes	\$35.97	\$13.66
324	1-Dec-11	24	2	\$27.94	Yes	\$35.97	\$8.03
325	1-Dec-11	24	3	\$25.84	Yes	\$35.97	\$10.13
326	1-Dec-11	24	4	\$24.80	Yes	\$35.97	\$11.17
327	1-Dec-11	24	5	\$25.97	Yes	\$35.97	\$10.00
328	1-Dec-11	24	6	\$25.26	Yes	\$35.97	\$10.71
329	1-Dec-11	24	7	\$25.00	Yes	\$35.97	\$10.97
330	1-Dec-11	24	8	\$23.95	Yes	\$35.97	\$12.02
331	1-Dec-11	24	9	\$18.10	Yes	\$35.97	\$17.87
332	1-Dec-11	24	10	\$17.81	Yes	\$35.97	\$18.16
333	1-Dec-11	24	11	\$16.37	Yes	\$35.97	\$19.60
334	1-Dec-11	24	12	\$18.04	Yes	\$35.97	\$17.93
335	4-Dec-11	11	1	\$34.12	Yes	\$33.12	-\$1.00
336	4-Dec-11	11	2	\$34.75	Yes	\$33.12	-\$1.63
337	4-Dec-11	11	3	\$26.63	Yes	\$33.12	\$6.49
338	4-Dec-11	11	4	\$25.55	Yes	\$33.12	\$7.57
339	4-Dec-11	11	5	\$25.58	Yes	\$33.12	\$7.54
340	4-Dec-11	11	6	\$26.48	Yes	\$33.12	\$6.64
341	4-Dec-11	11	7	\$25.57	Yes	\$33.12	\$7.55
342	4-Dec-11	11	8	\$26.58	Yes	\$33.12	\$6.54
343	4-Dec-11	11	9	\$26.90	Yes	\$33.12	\$6.22
344	4-Dec-11	11	10	\$27.07	Yes	\$33.12	\$6.05
345	4-Dec-11	11	11	\$26.89	Yes	\$33.12	\$6.23
346	4-Dec-11	11	12	\$24.21	Yes	\$33.12	\$8.91
347	4-Dec-11	12	1	\$32.15	Yes	\$33.12	\$0.97
348	4-Dec-11	12	2	\$27.53	Yes	\$33.12	\$5.59
349	4-Dec-11	12	3	\$23.90	Yes	\$33.12	\$9.22
350	4-Dec-11	12	4	\$24.28	Yes	\$33.12	\$8.84
351	4-Dec-11	12	5	\$23.86	Yes	\$33.12	\$9.26
352	4-Dec-11	12	6	\$23.86	Yes	\$33.12	\$9.26
353	4-Dec-11	12	7	\$24.30	Yes	\$33.12	\$8.82
354	4-Dec-11	12	8	\$25.33	Yes	\$33.12	\$7.79
355	4-Dec-11	12	9	\$24.83	Yes	\$33.12	\$8.29
356	4-Dec-11	12	10	\$24.22	Yes	\$33.12	\$8.90

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
357	4-Dec-11	12	11	\$24.39	Yes	\$33.12	\$8.73
358	4-Dec-11	12	12	\$24.00	Yes	\$33.12	\$9.12
359	4-Dec-11	13	1	\$31.39	Yes	\$33.12	\$1.73
360	4-Dec-11	13	2	\$32.02	Yes	\$33.12	\$1.10
361	4-Dec-11	13	3	\$27.31	Yes	\$33.12	\$5.81
362	4-Dec-11	13	4	\$26.78	Yes	\$33.12	\$6.34
363	4-Dec-11	13	5	\$27.29	Yes	\$33.12	\$5.83
364	4-Dec-11	13	6	\$27.56	Yes	\$33.12	\$5.56
365	4-Dec-11	13	7	\$28.88	Yes	\$33.12	\$4.24
366	4-Dec-11	13	8	\$29.96	Yes	\$33.12	\$3.16
367	4-Dec-11	13	9	\$29.96	Yes	\$33.12	\$3.16
368	4-Dec-11	13	10	\$29.96	Yes	\$33.12	\$3.16
369	4-Dec-11	13	11	\$29.96	Yes	\$33.12	\$3.16
370	4-Dec-11	13	12	\$26.94	Yes	\$33.12	\$6.18
371	4-Dec-11	14	1	\$27.33	Yes	\$33.12	\$5.79
372	4-Dec-11	14	2	\$26.63	Yes	\$33.12	\$6.49
373	4-Dec-11	14	3	\$25.96	Yes	\$33.12	\$7.16
374	4-Dec-11	14	4	\$26.61	Yes	\$33.12	\$6.51
375	4-Dec-11	14	5	\$26.61	Yes	\$33.12	\$6.51
376	4-Dec-11	14	6	\$25.91	Yes	\$33.12	\$7.21
377	4-Dec-11	14	7	\$25.90	Yes	\$33.12	\$7.22
378	4-Dec-11	14	8	\$26.49	Yes	\$33.12	\$6.63
379	4-Dec-11	14	9	\$26.44	Yes	\$33.12	\$6.68
380	4-Dec-11	14	10	\$25.89	Yes	\$33.12	\$7.23
381	4-Dec-11	14	11	\$25.56	Yes	\$33.12	\$7.56
382	4-Dec-11	14	12	\$24.92	Yes	\$33.12	\$8.20
383	4-Dec-11	15	1	\$25.46	Yes	\$33.12	\$7.66
384	4-Dec-11	15	2	\$25.46	Yes	\$33.12	\$7.66
385	4-Dec-11	15	3	\$25.46	Yes	\$33.12	\$7.66
386	4-Dec-11	15	4	\$25.62	Yes	\$33.12	\$7.50
387	4-Dec-11	15	5	\$25.62	Yes	\$33.12	\$7.50
388	4-Dec-11	15	6	\$25.92	Yes	\$33.12	\$7.20
389	4-Dec-11	15	7	\$25.61	Yes	\$33.12	\$7.51
390	4-Dec-11	15	8	\$25.68	Yes	\$33.12	\$7.44
391	4-Dec-11	15	9	\$25.58	Yes	\$33.12	\$7.54
392	4-Dec-11	15	10	\$25.68	Yes	\$33.12	\$7.44
393	4-Dec-11	15	11	\$25.60	Yes	\$33.12	\$7.52
394	4-Dec-11	15	12	\$25.72	Yes	\$33.12	\$7.40
395	4-Dec-11	16	1	\$26.02	Yes	\$33.12	\$7.10
396	4-Dec-11	16	2	\$26.02	Yes	\$33.12	\$7.10
397	4-Dec-11	16	3	\$25.64	Yes	\$33.12	\$7.48
398	4-Dec-11	16	4	\$25.51	Yes	\$33.12	\$7.61
399	4-Dec-11	16	5	\$25.59	Yes	\$33.12	\$7.53
400	4-Dec-11	16	6	\$25.59	Yes	\$33.12	\$7.53
401	4-Dec-11	16	7	\$25.73	Yes	\$33.12	\$7.39

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
402	4-Dec-11	16	8	\$26.55	Yes	\$33.12	\$6.57
403	4-Dec-11	16	9	\$26.55	Yes	\$33.12	\$6.57
404	4-Dec-11	16	10	\$26.07	Yes	\$33.12	\$7.05
405	4-Dec-11	16	11	\$26.52	Yes	\$33.12	\$6.60
406	4-Dec-11	16	12	\$27.61	Yes	\$33.12	\$5.51
407	4-Dec-11	17	1	\$19.43	Yes	\$33.12	\$13.69
408	4-Dec-11	17	2	\$16.51	Yes	\$33.12	\$16.61
409	4-Dec-11	17	3	\$16.51	Yes	\$33.12	\$16.61
410	4-Dec-11	17	4	\$16.52	Yes	\$33.12	\$16.60
411	4-Dec-11	17	5	\$20.56	Yes	\$33.12	\$12.56
412	4-Dec-11	17	6	\$24.47	Yes	\$33.12	\$8.65
413	4-Dec-11	17	7	\$24.50	Yes	\$33.12	\$8.62
414	4-Dec-11	17	8	\$24.45	Yes	\$33.12	\$8.67
415	4-Dec-11	17	9	\$25.81	Yes	\$33.12	\$7.31
416	4-Dec-11	17	10	\$25.14	Yes	\$33.12	\$7.98
417	4-Dec-11	17	11	\$26.18	Yes	\$33.12	\$6.94
418	4-Dec-11	17	12	\$27.56	Yes	\$33.12	\$5.56
419	4-Dec-11	18	1	\$24.66	Yes	\$33.12	\$8.46
420	4-Dec-11	18	2	\$25.27	Yes	\$33.12	\$7.85
421	4-Dec-11	18	3	\$25.27	Yes	\$33.12	\$7.85
422	4-Dec-11	18	4	\$25.79	Yes	\$33.12	\$7.33
423	4-Dec-11	18	5	\$27.77	Yes	\$33.12	\$5.35
424	4-Dec-11	18	6	\$27.32	Yes	\$33.12	\$5.80
425	4-Dec-11	18	7	\$27.76	Yes	\$33.12	\$5.36
426	4-Dec-11	18	8	\$28.86	Yes	\$33.12	\$4.26
427	4-Dec-11	18	9	\$28.86	Yes	\$33.12	\$4.26
428	4-Dec-11	18	10	\$30.83	Yes	\$33.12	\$2.29
429	4-Dec-11	18	11	\$30.83	Yes	\$33.12	\$2.29
430	4-Dec-11	18	12	\$35.58	Yes	\$33.12	-\$2.46
431	4-Dec-11	19	1	\$34.46	Yes	\$33.12	-\$1.34
432	4-Dec-11	19	2	\$37.20	Yes	\$33.12	-\$4.08
433	4-Dec-11	19	3	\$49.46	Yes	\$33.12	-\$16.34
434	4-Dec-11	19	4	\$42.74	Yes	\$33.12	-\$9.62
435	4-Dec-11	19	5	\$42.74	Yes	\$33.12	-\$9.62
436	4-Dec-11	19	6	\$42.74	Yes	\$33.12	-\$9.62
437	4-Dec-11	19	7	\$42.71	Yes	\$33.12	-\$9.59
438	4-Dec-11	19	8	\$42.84	Yes	\$33.12	-\$9.72
439	4-Dec-11	19	9	\$42.72	Yes	\$33.12	-\$9.60
440	4-Dec-11	19	10	\$35.69	Yes	\$33.12	-\$2.57
441	4-Dec-11	19	11	\$35.69	Yes	\$33.12	-\$2.57
442	4-Dec-11	19	12	\$36.53	Yes	\$33.12	-\$3.41
443	4-Dec-11	20	1	\$36.95	Yes	\$33.12	-\$3.83
444	4-Dec-11	20	2	\$41.80	Yes	\$33.12	-\$8.68
445	4-Dec-11	20	3	\$41.80	Yes	\$33.12	-\$8.68
446	4-Dec-11	20	4	\$38.80	Yes	\$33.12	-\$5.68

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
447	4-Dec-11	20	5	\$36.94	Yes	\$33.12	-\$3.82
448	4-Dec-11	20	6	\$36.94	Yes	\$33.12	-\$3.82
449	4-Dec-11	20	7	\$35.58	Yes	\$33.12	-\$2.46
450	4-Dec-11	20	8	\$35.55	Yes	\$33.12	-\$2.43
451	4-Dec-11	20	9	\$35.55	Yes	\$33.12	-\$2.43
452	4-Dec-11	20	10	\$35.57	Yes	\$33.12	-\$2.45
453	4-Dec-11	20	11	\$33.56	Yes	\$33.12	-\$0.44
454	4-Dec-11	20	12	\$34.67	Yes	\$33.12	-\$1.55
455	4-Dec-11	21	1	\$37.07	Yes	\$33.12	-\$3.95
456	4-Dec-11	21	2	\$49.86	Yes	\$33.12	-\$16.74
457	4-Dec-11	21	3	\$50.79	Yes	\$33.12	-\$17.67
458	4-Dec-11	21	4	\$50.78	Yes	\$33.12	-\$17.66
459	4-Dec-11	21	5	\$50.44	Yes	\$33.12	-\$17.32
460	4-Dec-11	21	6	\$42.82	Yes	\$33.12	-\$9.70
461	4-Dec-11	21	7	\$42.27	Yes	\$33.12	-\$9.15
462	4-Dec-11	21	8	\$35.30	Yes	\$33.12	-\$2.18
463	4-Dec-11	21	9	\$33.15	Yes	\$33.12	-\$0.03
464	4-Dec-11	21	10	\$35.18	Yes	\$33.12	-\$2.06
465	4-Dec-11	21	11	\$30.67	Yes	\$33.12	\$2.45
466	4-Dec-11	21	12	\$28.77	Yes	\$33.12	\$4.35
467	4-Dec-11	22	1	\$36.99	Yes	\$33.12	-\$3.87
468	4-Dec-11	22	2	\$42.71	Yes	\$33.12	-\$9.59
469	4-Dec-11	22	3	\$42.71	Yes	\$33.12	-\$9.59
470	4-Dec-11	22	4	\$36.85	Yes	\$33.12	-\$3.73
471	4-Dec-11	22	5	\$36.85	Yes	\$33.12	-\$3.73
472	4-Dec-11	22	6	\$30.68	Yes	\$33.12	\$2.44
473	4-Dec-11	22	7	\$30.70	Yes	\$33.12	\$2.42
474	4-Dec-11	22	8	\$27.16	Yes	\$33.12	\$5.96
475	4-Dec-11	22	9	\$27.18	Yes	\$33.12	\$5.94
476	4-Dec-11	22	10	\$27.19	Yes	\$33.12	\$5.93
477	4-Dec-11	22	11	\$27.17	Yes	\$33.12	\$5.95
478	4-Dec-11	22	12	\$25.12	Yes	\$33.12	\$8.00
479	4-Dec-11	23	1	\$34.77	Yes	\$33.12	-\$1.65
480	4-Dec-11	23	2	\$30.62	Yes	\$33.12	\$2.50
481	4-Dec-11	23	3	\$37.76	Yes	\$33.12	-\$4.64
482	4-Dec-11	23	4	\$33.54	Yes	\$33.12	-\$0.42
483	4-Dec-11	23	5	\$31.52	Yes	\$33.12	\$1.60
484	4-Dec-11	23	6	\$26.55	Yes	\$33.12	\$6.57
485	4-Dec-11	23	7	\$24.50	Yes	\$33.12	\$8.62
486	4-Dec-11	23	8	\$24.30	Yes	\$33.12	\$8.82
487	4-Dec-11	23	9	\$24.30	Yes	\$33.12	\$8.82
488	4-Dec-11	23	10	\$24.66	Yes	\$33.12	\$8.46
489	4-Dec-11	23	11	\$25.51	Yes	\$33.12	\$7.61
490	4-Dec-11	23	12	\$23.76	Yes	\$33.12	\$9.36
491	4-Dec-11	24	1	\$40.08	Yes	\$33.12	-\$6.96

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
492	4-Dec-11	24	2	\$40.08	Yes	\$33.12	-\$6.96
493	4-Dec-11	24	3	\$38.39	Yes	\$33.12	-\$5.27
494	4-Dec-11	24	4	\$34.11	Yes	\$33.12	-\$0.99
495	4-Dec-11	24	5	\$31.81	Yes	\$33.12	\$1.31
496	4-Dec-11	24	6	\$31.48	Yes	\$33.12	\$1.64
497	4-Dec-11	24	7	\$31.31	Yes	\$33.12	\$1.81
498	4-Dec-11	24	8	\$30.53	Yes	\$33.12	\$2.59
499	4-Dec-11	24	9	\$30.53	Yes	\$33.12	\$2.59
500	4-Dec-11	24	10	\$31.42	Yes	\$33.12	\$1.70
501	4-Dec-11	24	11	\$28.62	Yes	\$33.12	\$4.50
502	4-Dec-11	24	12	\$28.62	Yes	\$33.12	\$4.50
503	6-Dec-11	16	7	\$26.43	Yes	\$38.80	\$12.37
504	6-Dec-11	16	8	\$26.59	Yes	\$38.80	\$12.21
505	6-Dec-11	16	9	\$26.82	Yes	\$38.80	\$11.98
506	6-Dec-11	16	10	\$26.89	Yes	\$38.80	\$11.91
507	6-Dec-11	16	11	\$27.16	Yes	\$38.80	\$11.64
508	6-Dec-11	16	12	\$27.45	Yes	\$38.80	\$11.35
509	6-Dec-11	17	1	\$25.85	Yes	\$38.80	\$12.95
510	6-Dec-11	17	2	\$26.31	Yes	\$38.80	\$12.49
511	6-Dec-11	17	3	\$26.55	Yes	\$38.80	\$12.25
512	6-Dec-11	17	4	\$26.65	Yes	\$38.80	\$12.15
513	6-Dec-11	17	5	\$26.66	Yes	\$38.80	\$12.14
514	6-Dec-11	17	6	\$28.49	Yes	\$38.80	\$10.31
515	6-Dec-11	17	7	\$30.32	Yes	\$38.80	\$8.48
516	6-Dec-11	17	8	\$31.27	Yes	\$38.80	\$7.53
517	6-Dec-11	17	9	\$33.97	Yes	\$38.80	\$4.83
518	6-Dec-11	17	10	\$31.98	Yes	\$38.80	\$6.82
519	6-Dec-11	17	11	\$37.72	Yes	\$38.80	\$1.08
520	6-Dec-11	17	12	\$40.67	Yes	\$38.80	-\$1.87
521	6-Dec-11	18	1	\$29.00	No	\$38.80	\$9.80
522	6-Dec-11	18	2	\$29.00	No	\$38.80	\$9.80
523	6-Dec-11	18	3	\$29.00	No	\$38.80	\$9.80
524	6-Dec-11	18	4	\$30.97	No	\$38.80	\$7.83
525	6-Dec-11	18	5	\$34.08	No	\$38.80	\$4.72
526	6-Dec-11	18	6	\$34.08	No	\$38.80	\$4.72
527	6-Dec-11	18	7	\$33.14	No	\$38.80	\$5.66
528	6-Dec-11	18	8	\$32.49	No	\$38.80	\$6.31
529	6-Dec-11	18	9	\$32.98	No	\$38.80	\$5.82
530	6-Dec-11	18	10	\$43.01	No	\$38.80	-\$4.21
531	6-Dec-11	18	11	\$41.12	No	\$38.80	-\$2.32
532	6-Dec-11	18	12	\$32.89	No	\$38.80	\$5.91
533	6-Dec-11	19	1	\$31.43	No	\$38.80	\$7.37
534	6-Dec-11	19	2	\$31.43	No	\$38.80	\$7.37
535	6-Dec-11	19	3	\$32.73	No	\$38.80	\$6.07
536	6-Dec-11	19	4	\$29.39	No	\$38.80	\$9.41

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
537	6-Dec-11	19	5	\$29.06	No	\$38.80	\$9.74
538	6-Dec-11	19	6	\$29.06	No	\$38.80	\$9.74
539	6-Dec-11	19	7	\$28.27	No	\$38.80	\$10.53
540	6-Dec-11	19	8	\$29.01	No	\$38.80	\$9.79
541	6-Dec-11	19	9	\$29.38	No	\$38.80	\$9.42
542	6-Dec-11	19	10	\$29.35	No	\$38.80	\$9.45
543	6-Dec-11	19	11	\$29.35	No	\$38.80	\$9.45
544	6-Dec-11	19	12	\$28.96	No	\$38.80	\$9.84
545	6-Dec-11	20	1	\$32.46	No	\$38.80	\$6.34
546	6-Dec-11	20	2	\$29.38	No	\$38.80	\$9.42
547	6-Dec-11	20	3	\$32.93	No	\$38.80	\$5.87
548	6-Dec-11	20	4	\$32.87	No	\$38.80	\$5.93
549	6-Dec-11	20	5	\$32.91	No	\$38.80	\$5.89
550	6-Dec-11	20	6	\$32.91	No	\$38.80	\$5.89
551	6-Dec-11	20	7	\$32.91	No	\$38.80	\$5.89
552	6-Dec-11	20	8	\$32.88	No	\$38.80	\$5.92
553	6-Dec-11	20	9	\$29.34	No	\$38.80	\$9.46
554	6-Dec-11	20	10	\$32.41	No	\$38.80	\$6.39
555	6-Dec-11	20	11	\$32.41	No	\$38.80	\$6.39
556	6-Dec-11	20	12	\$29.33	No	\$38.80	\$9.47
557	7-Dec-11	16	7	\$26.16	Yes	\$38.20	\$12.04
558	7-Dec-11	16	8	\$26.39	Yes	\$38.20	\$11.81
559	7-Dec-11	16	9	\$26.39	Yes	\$38.20	\$11.81
560	7-Dec-11	16	10	\$26.27	Yes	\$38.20	\$11.93
561	7-Dec-11	16	11	\$26.33	Yes	\$38.20	\$11.87
562	7-Dec-11	16	12	\$26.63	Yes	\$38.20	\$11.57
563	7-Dec-11	17	1	\$26.40	No	\$38.20	\$11.80
564	7-Dec-11	17	2	\$26.40	No	\$38.20	\$11.80
565	7-Dec-11	17	3	\$26.55	No	\$38.20	\$11.65
566	7-Dec-11	17	4	\$26.73	No	\$38.20	\$11.47
567	7-Dec-11	17	5	\$26.73	No	\$38.20	\$11.47
568	7-Dec-11	17	6	\$26.81	No	\$38.20	\$11.39
569	7-Dec-11	17	7	\$28.06	No	\$38.20	\$10.14
570	7-Dec-11	17	8	\$28.23	No	\$38.20	\$9.97
571	7-Dec-11	17	9	\$32.05	No	\$38.20	\$6.15
572	7-Dec-11	17	10	\$28.67	No	\$38.20	\$9.53
573	7-Dec-11	17	11	\$32.88	No	\$38.20	\$5.32
574	7-Dec-11	17	12	\$43.45	No	\$38.20	-\$5.25
575	7-Dec-11	18	1	\$28.04	No	\$38.20	\$10.16
576	7-Dec-11	18	2	\$28.04	No	\$38.20	\$10.16
577	7-Dec-11	18	3	\$28.49	No	\$38.20	\$9.71
578	7-Dec-11	18	4	\$28.96	No	\$38.20	\$9.24
579	7-Dec-11	18	5	\$32.50	No	\$38.20	\$5.70
580	7-Dec-11	18	6	\$33.61	No	\$38.20	\$4.59
581	7-Dec-11	18	7	\$33.55	No	\$38.20	\$4.65

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
582	7-Dec-11	18	8	\$39.13	No	\$38.20	-\$0.93
583	7-Dec-11	18	9	\$39.55	No	\$38.20	-\$1.35
584	7-Dec-11	18	10	\$44.16	No	\$38.20	-\$5.96
585	7-Dec-11	18	11	\$44.22	No	\$38.20	-\$6.02
586	7-Dec-11	18	12	\$33.70	No	\$38.20	\$4.50
587	7-Dec-11	19	1	\$33.52	No	\$38.20	\$4.68
588	7-Dec-11	19	2	\$33.52	No	\$38.20	\$4.68
589	7-Dec-11	19	3	\$33.52	No	\$38.20	\$4.68
590	7-Dec-11	19	4	\$33.43	No	\$38.20	\$4.77
591	7-Dec-11	19	5	\$28.91	No	\$38.20	\$9.29
592	7-Dec-11	19	6	\$29.02	No	\$38.20	\$9.18
593	7-Dec-11	19	7	\$29.02	No	\$38.20	\$9.18
594	7-Dec-11	19	8	\$28.99	No	\$38.20	\$9.21
595	7-Dec-11	19	9	\$28.99	No	\$38.20	\$9.21
596	7-Dec-11	19	10	\$28.98	No	\$38.20	\$9.22
597	7-Dec-11	19	11	\$29.22	No	\$38.20	\$8.98
598	7-Dec-11	19	12	\$33.47	No	\$38.20	\$4.73
599	8-Dec-11	6	1	\$26.32	Yes	\$37.95	\$11.63
600	8-Dec-11	6	2	\$26.93	Yes	\$37.95	\$11.02
601	8-Dec-11	6	3	\$27.04	Yes	\$37.95	\$10.91
602	8-Dec-11	6	4	\$28.29	Yes	\$37.95	\$9.66
603	8-Dec-11	6	5	\$28.92	Yes	\$37.95	\$9.03
604	8-Dec-11	6	6	\$30.55	Yes	\$37.95	\$7.40
605	8-Dec-11	6	7	\$31.34	Yes	\$37.95	\$6.61
606	8-Dec-11	6	8	\$31.28	Yes	\$37.95	\$6.67
607	8-Dec-11	6	9	\$32.27	Yes	\$37.95	\$5.68
608	8-Dec-11	6	10	\$32.70	Yes	\$37.95	\$5.25
609	8-Dec-11	6	11	\$33.83	Yes	\$37.95	\$4.12
610	8-Dec-11	6	12	\$33.83	Yes	\$37.95	\$4.12
611	8-Dec-11	7	1	\$26.00	No	\$37.95	\$11.95
612	8-Dec-11	7	2	\$26.80	No	\$37.95	\$11.15
613	8-Dec-11	7	3	\$26.60	No	\$37.95	\$11.35
614	8-Dec-11	7	4	\$27.87	No	\$37.95	\$10.08
615	8-Dec-11	7	5	\$28.66	No	\$37.95	\$9.29
616	8-Dec-11	7	6	\$31.66	No	\$37.95	\$6.29
617	8-Dec-11	7	7	\$33.03	No	\$37.95	\$4.92
618	8-Dec-11	7	8	\$33.06	No	\$37.95	\$4.89
619	8-Dec-11	7	9	\$35.68	No	\$37.95	\$2.27
620	8-Dec-11	7	10	\$39.44	No	\$37.95	-\$1.49
621	8-Dec-11	7	11	\$40.04	No	\$37.95	-\$2.09
622	8-Dec-11	7	12	\$39.24	No	\$37.95	-\$1.29
623	8-Dec-11	8	1	\$32.64	No	\$37.95	\$5.31
624	8-Dec-11	8	2	\$32.64	No	\$37.95	\$5.31
625	8-Dec-11	8	3	\$32.64	No	\$37.95	\$5.31
626	8-Dec-11	8	4	\$32.59	No	\$37.95	\$5.36

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
627	8-Dec-11	8	5	\$33.20	No	\$37.95	\$4.75
628	8-Dec-11	8	6	\$35.26	No	\$37.95	\$2.69
629	8-Dec-11	8	7	\$33.22	No	\$37.95	\$4.73
630	8-Dec-11	8	8	\$32.96	No	\$37.95	\$4.99
631	8-Dec-11	8	9	\$32.96	No	\$37.95	\$4.99
632	8-Dec-11	8	10	\$32.69	No	\$37.95	\$5.26
633	8-Dec-11	8	11	\$32.69	No	\$37.95	\$5.26
634	8-Dec-11	8	12	\$32.69	No	\$37.95	\$5.26
635	8-Dec-11	9	1	\$32.04	No	\$37.95	\$5.91
636	8-Dec-11	9	2	\$32.66	No	\$37.95	\$5.29
637	8-Dec-11	9	3	\$32.66	No	\$37.95	\$5.29
638	8-Dec-11	9	4	\$33.18	No	\$37.95	\$4.77
639	8-Dec-11	9	5	\$33.18	No	\$37.95	\$4.77
640	8-Dec-11	9	6	\$32.69	No	\$37.95	\$5.26
641	8-Dec-11	9	7	\$32.61	No	\$37.95	\$5.34
642	8-Dec-11	9	8	\$32.78	No	\$37.95	\$5.17
643	8-Dec-11	9	9	\$32.78	No	\$37.95	\$5.17
644	8-Dec-11	9	10	\$32.58	No	\$37.95	\$5.37
645	8-Dec-11	9	11	\$28.74	No	\$37.95	\$9.21
646	8-Dec-11	9	12	\$32.58	No	\$37.95	\$5.37
647	8-Dec-11	16	7	\$27.19	Yes	\$37.95	\$10.76
648	8-Dec-11	16	8	\$27.89	Yes	\$37.95	\$10.06
649	8-Dec-11	16	9	\$27.89	Yes	\$37.95	\$10.06
650	8-Dec-11	16	10	\$27.42	Yes	\$37.95	\$10.53
651	8-Dec-11	16	11	\$27.86	Yes	\$37.95	\$10.09
652	8-Dec-11	16	12	\$28.34	Yes	\$37.95	\$9.61
653	8-Dec-11	17	1	\$26.19	Yes	\$37.95	\$11.76
654	8-Dec-11	17	2	\$27.03	Yes	\$37.95	\$10.92
655	8-Dec-11	17	3	\$26.92	Yes	\$37.95	\$11.03
656	8-Dec-11	17	4	\$30.40	Yes	\$37.95	\$7.55
657	8-Dec-11	17	5	\$27.16	Yes	\$37.95	\$10.79
658	8-Dec-11	17	6	\$28.84	Yes	\$37.95	\$9.11
659	8-Dec-11	17	7	\$28.81	Yes	\$37.95	\$9.14
660	8-Dec-11	17	8	\$30.19	Yes	\$37.95	\$7.76
661	8-Dec-11	17	9	\$36.09	Yes	\$37.95	\$1.86
662	8-Dec-11	17	10	\$37.77	Yes	\$37.95	\$0.18
663	8-Dec-11	17	11	\$33.45	Yes	\$37.95	\$4.50
664	8-Dec-11	17	12	\$38.74	Yes	\$37.95	-\$0.79
665	8-Dec-11	18	1	\$28.34	No	\$37.95	\$9.61
666	8-Dec-11	18	2	\$28.34	No	\$37.95	\$9.61
667	8-Dec-11	18	3	\$28.34	No	\$37.95	\$9.61
668	8-Dec-11	18	4	\$28.64	No	\$37.95	\$9.31
669	8-Dec-11	18	5	\$28.80	No	\$37.95	\$9.15
670	8-Dec-11	18	6	\$33.71	No	\$37.95	\$4.24
671	8-Dec-11	18	7	\$33.68	No	\$37.95	\$4.27

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
672	8-Dec-11	18	8	\$33.73	No	\$37.95	\$4.22
673	8-Dec-11	18	9	\$33.73	No	\$37.95	\$4.22
674	8-Dec-11	18	10	\$36.09	No	\$37.95	\$1.86
675	8-Dec-11	18	11	\$37.87	No	\$37.95	\$0.08
676	8-Dec-11	18	12	\$34.03	No	\$37.95	\$3.92
677	8-Dec-11	19	1	\$38.02	No	\$37.95	-\$0.07
678	8-Dec-11	19	2	\$38.02	No	\$37.95	-\$0.07
679	8-Dec-11	19	3	\$34.78	No	\$37.95	\$3.17
680	8-Dec-11	19	4	\$38.10	No	\$37.95	-\$0.15
681	8-Dec-11	19	5	\$38.10	No	\$37.95	-\$0.15
682	8-Dec-11	19	6	\$36.18	No	\$37.95	\$1.77
683	8-Dec-11	19	7	\$33.27	No	\$37.95	\$4.68
684	8-Dec-11	19	8	\$33.48	No	\$37.95	\$4.47
685	8-Dec-11	19	9	\$35.26	No	\$37.95	\$2.69
686	8-Dec-11	19	10	\$33.60	No	\$37.95	\$4.35
687	8-Dec-11	19	11	\$33.60	No	\$37.95	\$4.35
688	8-Dec-11	19	12	\$32.80	No	\$37.95	\$5.15
689	8-Dec-11	20	1	\$47.49	No	\$37.95	-\$9.54
690	8-Dec-11	20	2	\$47.49	No	\$37.95	-\$9.54
691	8-Dec-11	20	3	\$47.48	No	\$37.95	-\$9.53
692	8-Dec-11	20	4	\$45.22	No	\$37.95	-\$7.27
693	8-Dec-11	20	5	\$41.78	No	\$37.95	-\$3.83
694	8-Dec-11	20	6	\$41.99	No	\$37.95	-\$4.04
695	9-Dec-11	6	3	\$30.94	Yes	\$37.48	\$6.54
696	9-Dec-11	6	4	\$31.17	Yes	\$37.48	\$6.31
697	9-Dec-11	6	5	\$31.81	Yes	\$37.48	\$5.67
698	9-Dec-11	6	6	\$31.94	Yes	\$37.48	\$5.54
699	9-Dec-11	6	7	\$33.15	Yes	\$37.48	\$4.33
700	9-Dec-11	6	8	\$34.83	Yes	\$37.48	\$2.65
701	9-Dec-11	6	9	\$36.50	Yes	\$37.48	\$0.98
702	9-Dec-11	6	10	\$33.28	Yes	\$37.48	\$4.20
703	9-Dec-11	6	11	\$31.56	Yes	\$37.48	\$5.92
704	9-Dec-11	6	12	\$32.78	Yes	\$37.48	\$4.70
705	9-Dec-11	7	1	\$24.14	No	\$37.48	\$13.34
706	9-Dec-11	7	2	\$25.61	No	\$37.48	\$11.87
707	9-Dec-11	7	3	\$26.03	No	\$37.48	\$11.45
708	9-Dec-11	7	4	\$29.91	No	\$37.48	\$7.57
709	9-Dec-11	7	5	\$33.33	No	\$37.48	\$4.15
710	9-Dec-11	7	6	\$33.71	No	\$37.48	\$3.77
711	9-Dec-11	7	7	\$33.67	No	\$37.48	\$3.81
712	9-Dec-11	7	8	\$37.56	No	\$37.48	-\$0.08
713	9-Dec-11	7	9	\$40.98	No	\$37.48	-\$3.50
714	9-Dec-11	7	10	\$38.49	No	\$37.48	-\$1.01
715	9-Dec-11	7	11	\$35.43	No	\$37.48	\$2.05
716	9-Dec-11	7	12	\$35.39	No	\$37.48	\$2.09

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
717	9-Dec-11	8	1	\$32.41	No	\$37.48	\$5.07
718	9-Dec-11	8	2	\$32.41	No	\$37.48	\$5.07
719	9-Dec-11	8	3	\$32.41	No	\$37.48	\$5.07
720	9-Dec-11	8	4	\$37.58	No	\$37.48	-\$0.10
721	9-Dec-11	8	5	\$38.59	No	\$37.48	-\$1.11
722	9-Dec-11	8	6	\$38.61	No	\$37.48	-\$1.13
723	9-Dec-11	8	7	\$38.27	No	\$37.48	-\$0.79
724	9-Dec-11	8	8	\$38.30	No	\$37.48	-\$0.82
725	9-Dec-11	8	9	\$38.25	No	\$37.48	-\$0.77
726	9-Dec-11	8	10	\$37.46	No	\$37.48	\$0.02
727	9-Dec-11	8	11	\$37.46	No	\$37.48	\$0.02
728	9-Dec-11	8	12	\$35.47	No	\$37.48	\$2.01
729	9-Dec-11	9	1	\$44.21	No	\$37.48	-\$6.73
730	9-Dec-11	9	2	\$32.30	No	\$37.48	\$5.18
731	9-Dec-11	9	3	\$32.30	No	\$37.48	\$5.18
732	9-Dec-11	9	4	\$32.24	No	\$37.48	\$5.24
733	9-Dec-11	9	5	\$32.24	No	\$37.48	\$5.24
734	9-Dec-11	9	6	\$32.24	No	\$37.48	\$5.24
735	9-Dec-11	9	7	\$35.55	No	\$37.48	\$1.93
736	9-Dec-11	9	8	\$32.32	No	\$37.48	\$5.16
737	9-Dec-11	9	9	\$32.32	No	\$37.48	\$5.16
738	9-Dec-11	9	10	\$35.54	No	\$37.48	\$1.94
739	9-Dec-11	9	11	\$35.81	No	\$37.48	\$1.67
740	9-Dec-11	9	12	\$35.81	No	\$37.48	\$1.67
741	9-Dec-11	15	1	\$27.13	Yes	\$37.48	\$10.35
742	9-Dec-11	15	2	\$26.94	Yes	\$37.48	\$10.54
743	9-Dec-11	15	3	\$26.87	Yes	\$37.48	\$10.61
744	9-Dec-11	15	4	\$26.84	Yes	\$37.48	\$10.64
745	9-Dec-11	15	5	\$26.86	Yes	\$37.48	\$10.62
746	9-Dec-11	15	6	\$26.86	Yes	\$37.48	\$10.62
747	9-Dec-11	15	7	\$26.76	Yes	\$37.48	\$10.72
748	9-Dec-11	15	8	\$26.69	Yes	\$37.48	\$10.79
749	9-Dec-11	15	9	\$27.63	Yes	\$37.48	\$9.85
750	9-Dec-11	15	10	\$27.46	Yes	\$37.48	\$10.02
751	9-Dec-11	15	11	\$27.46	Yes	\$37.48	\$10.02
752	9-Dec-11	15	12	\$27.68	Yes	\$37.48	\$9.80
753	9-Dec-11	16	1	\$28.51	Yes	\$37.48	\$8.97
754	9-Dec-11	16	2	\$28.34	Yes	\$37.48	\$9.14
755	9-Dec-11	16	3	\$28.51	Yes	\$37.48	\$8.97
756	9-Dec-11	16	4	\$28.53	Yes	\$37.48	\$8.95
757	9-Dec-11	16	5	\$28.53	Yes	\$37.48	\$8.95
758	9-Dec-11	16	6	\$27.83	Yes	\$37.48	\$9.65
759	9-Dec-11	16	7	\$28.55	Yes	\$37.48	\$8.93
760	9-Dec-11	16	8	\$28.53	Yes	\$37.48	\$8.95
761	9-Dec-11	16	9	\$28.53	Yes	\$37.48	\$8.95

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
762	9-Dec-11	16	10	\$28.57	Yes	\$37.48	\$8.91
763	9-Dec-11	16	11	\$28.57	Yes	\$37.48	\$8.91
764	9-Dec-11	16	12	\$28.76	Yes	\$37.48	\$8.72
765	9-Dec-11	17	1	\$23.47	Yes	\$37.48	\$14.01
766	9-Dec-11	17	2	\$22.06	Yes	\$37.48	\$15.42
767	9-Dec-11	17	3	\$23.07	Yes	\$37.48	\$14.41
768	9-Dec-11	17	4	\$26.04	Yes	\$37.48	\$11.44
769	9-Dec-11	17	5	\$25.76	Yes	\$37.48	\$11.72
770	9-Dec-11	17	6	\$26.36	Yes	\$37.48	\$11.12
771	9-Dec-11	17	7	\$27.65	Yes	\$37.48	\$9.83
772	9-Dec-11	17	8	\$27.68	Yes	\$37.48	\$9.80
773	9-Dec-11	17	9	\$31.64	Yes	\$37.48	\$5.84
774	9-Dec-11	17	10	\$30.54	Yes	\$37.48	\$6.94
775	9-Dec-11	17	11	\$32.60	Yes	\$37.48	\$4.88
776	9-Dec-11	17	12	\$36.71	Yes	\$37.48	\$0.77
777	9-Dec-11	18	1	\$27.66	No	\$37.48	\$9.82
778	9-Dec-11	18	2	\$28.75	No	\$37.48	\$8.73
779	9-Dec-11	18	3	\$33.33	No	\$37.48	\$4.15
780	9-Dec-11	18	4	\$33.37	No	\$37.48	\$4.11
781	9-Dec-11	18	5	\$43.08	No	\$37.48	-\$5.60
782	9-Dec-11	18	6	\$43.37	No	\$37.48	-\$5.89
783	9-Dec-11	18	7	\$35.65	No	\$37.48	\$1.83
784	9-Dec-11	18	8	\$36.83	No	\$37.48	\$0.65
785	9-Dec-11	18	9	\$34.54	No	\$37.48	\$2.94
786	9-Dec-11	18	10	\$38.41	No	\$37.48	-\$0.93
787	9-Dec-11	18	11	\$33.29	No	\$37.48	\$4.19
788	9-Dec-11	18	12	\$33.29	No	\$37.48	\$4.19
789	9-Dec-11	19	1	\$33.09	No	\$37.48	\$4.39
790	9-Dec-11	19	2	\$31.77	No	\$37.48	\$5.71
791	9-Dec-11	19	3	\$31.77	No	\$37.48	\$5.71
792	9-Dec-11	19	4	\$31.29	No	\$37.48	\$6.19
793	9-Dec-11	19	5	\$28.70	No	\$37.48	\$8.78
794	9-Dec-11	19	6	\$28.70	No	\$37.48	\$8.78
795	9-Dec-11	19	7	\$28.69	No	\$37.48	\$8.79
796	9-Dec-11	19	8	\$28.71	No	\$37.48	\$8.77
797	9-Dec-11	19	9	\$28.50	No	\$37.48	\$8.98
798	9-Dec-11	19	10	\$28.38	No	\$37.48	\$9.10
799	9-Dec-11	19	11	\$28.38	No	\$37.48	\$9.10
800	9-Dec-11	19	12	\$28.07	No	\$37.48	\$9.41
801	9-Dec-11	20	1	\$30.10	No	\$37.48	\$7.38
802	9-Dec-11	20	2	\$31.39	No	\$37.48	\$6.09
803	9-Dec-11	20	3	\$33.12	No	\$37.48	\$4.36
804	9-Dec-11	20	4	\$30.42	No	\$37.48	\$7.06
805	9-Dec-11	20	5	\$31.59	No	\$37.48	\$5.89
806	9-Dec-11	20	6	\$31.78	No	\$37.48	\$5.70

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
807	9-Dec-11	20	7	\$31.46	No	\$37.48	\$6.02
808	9-Dec-11	20	8	\$28.63	No	\$37.48	\$8.85
809	9-Dec-11	20	9	\$28.63	No	\$37.48	\$8.85
810	9-Dec-11	20	10	\$28.66	No	\$37.48	\$8.82
811	9-Dec-11	20	11	\$28.66	No	\$37.48	\$8.82
812	9-Dec-11	20	12	\$32.59	No	\$37.48	\$4.89
813	9-Dec-11	21	1	\$33.14	No	\$37.48	\$4.34
814	9-Dec-11	21	2	\$33.14	No	\$37.48	\$4.34
815	9-Dec-11	21	3	\$33.14	No	\$37.48	\$4.34
816	9-Dec-11	21	4	\$29.78	No	\$37.48	\$7.70
817	9-Dec-11	21	5	\$29.64	No	\$37.48	\$7.84
818	9-Dec-11	21	6	\$30.84	No	\$37.48	\$6.64
819	9-Dec-11	21	7	\$32.61	No	\$37.48	\$4.87
820	9-Dec-11	21	8	\$32.54	No	\$37.48	\$4.94
821	9-Dec-11	21	9	\$29.66	No	\$37.48	\$7.82
822	9-Dec-11	21	10	\$28.26	No	\$37.48	\$9.22
823	9-Dec-11	21	11	\$27.98	No	\$37.48	\$9.50
824	9-Dec-11	21	12	\$27.51	No	\$37.48	\$9.97
825	12-Dec-11	12	1	\$76.86	Yes	\$36.87	-\$39.99
826	12-Dec-11	12	2	\$89.74	Yes	\$36.87	-\$52.87
827	12-Dec-11	12	3	\$90.80	Yes	\$36.87	-\$53.93
828	12-Dec-11	12	4	\$36.81	Yes	\$36.87	\$0.06
829	12-Dec-11	12	5	\$36.81	Yes	\$36.87	\$0.06
830	12-Dec-11	12	6	\$36.81	Yes	\$36.87	\$0.06
831	12-Dec-11	12	7	\$36.81	Yes	\$36.87	\$0.06
832	12-Dec-11	12	8	\$38.34	Yes	\$36.87	-\$1.47
833	12-Dec-11	12	9	\$36.94	Yes	\$36.87	-\$0.07
834	12-Dec-11	12	10	\$37.03	Yes	\$36.87	-\$0.16
835	12-Dec-11	12	11	\$37.03	Yes	\$36.87	-\$0.16
836	12-Dec-11	12	12	\$37.03	Yes	\$36.87	-\$0.16
837	12-Dec-11	13	1	\$40.84	Yes	\$36.87	-\$3.97
838	12-Dec-11	13	2	\$38.31	Yes	\$36.87	-\$1.44
839	12-Dec-11	13	3	\$40.84	Yes	\$36.87	-\$3.97
840	12-Dec-11	13	4	\$44.30	Yes	\$36.87	-\$7.43
841	12-Dec-11	13	5	\$40.77	Yes	\$36.87	-\$3.90
842	12-Dec-11	13	6	\$43.18	Yes	\$36.87	-\$6.31
843	12-Dec-11	13	7	\$44.21	Yes	\$36.87	-\$7.34
844	12-Dec-11	13	8	\$45.89	Yes	\$36.87	-\$9.02
845	12-Dec-11	13	9	\$38.80	Yes	\$36.87	-\$1.93
846	12-Dec-11	13	10	\$37.45	Yes	\$36.87	-\$0.58
847	12-Dec-11	13	11	\$33.53	Yes	\$36.87	\$3.34
848	12-Dec-11	13	12	\$32.96	Yes	\$36.87	\$3.91
849	12-Dec-11	16	1	\$32.34	No	\$36.87	\$4.53
850	12-Dec-11	16	2	\$32.34	No	\$36.87	\$4.53
851	12-Dec-11	16	3	\$32.85	No	\$36.87	\$4.02

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
852	12-Dec-11	16	4	\$32.44	No	\$36.87	\$4.43
853	12-Dec-11	16	5	\$32.44	No	\$36.87	\$4.43
854	12-Dec-11	16	6	\$32.94	No	\$36.87	\$3.93
855	12-Dec-11	16	7	\$36.57	No	\$36.87	\$0.30
856	12-Dec-11	16	8	\$33.03	No	\$36.87	\$3.84
857	12-Dec-11	16	9	\$33.03	No	\$36.87	\$3.84
858	12-Dec-11	16	10	\$34.58	No	\$36.87	\$2.29
859	12-Dec-11	16	11	\$33.75	No	\$36.87	\$3.12
860	12-Dec-11	16	12	\$33.03	No	\$36.87	\$3.84
861	12-Dec-11	17	1	\$27.35	No	\$36.87	\$9.52
862	12-Dec-11	17	2	\$27.35	No	\$36.87	\$9.52
863	12-Dec-11	17	3	\$26.85	No	\$36.87	\$10.02
864	12-Dec-11	17	4	\$26.90	No	\$36.87	\$9.97
865	12-Dec-11	17	5	\$27.37	No	\$36.87	\$9.50
866	12-Dec-11	17	6	\$28.42	No	\$36.87	\$8.45
867	12-Dec-11	17	7	\$27.51	No	\$36.87	\$9.36
868	12-Dec-11	17	8	\$28.34	No	\$36.87	\$8.53
869	12-Dec-11	17	9	\$32.75	No	\$36.87	\$4.12
870	12-Dec-11	17	10	\$33.03	No	\$36.87	\$3.84
871	12-Dec-11	17	11	\$36.62	No	\$36.87	\$0.25
872	12-Dec-11	17	12	\$36.36	No	\$36.87	\$0.51
873	12-Dec-11	18	1	\$28.40	Yes	\$36.87	\$8.47
874	12-Dec-11	18	2	\$28.40	Yes	\$36.87	\$8.47
875	12-Dec-11	18	3	\$28.40	Yes	\$36.87	\$8.47
876	12-Dec-11	18	4	\$35.47	Yes	\$36.87	\$1.40
877	12-Dec-11	18	5	\$34.20	Yes	\$36.87	\$2.67
878	12-Dec-11	18	6	\$35.47	Yes	\$36.87	\$1.40
879	12-Dec-11	18	7	\$35.39	Yes	\$36.87	\$1.48
880	12-Dec-11	18	8	\$36.50	Yes	\$36.87	\$0.37
881	12-Dec-11	18	9	\$35.64	Yes	\$36.87	\$1.23
882	12-Dec-11	18	10	\$35.65	Yes	\$36.87	\$1.22
883	12-Dec-11	18	11	\$38.11	Yes	\$36.87	-\$1.24
884	12-Dec-11	18	12	\$38.86	Yes	\$36.87	-\$1.99
885	12-Dec-11	19	1	\$41.95	No	\$36.87	-\$5.08
886	12-Dec-11	19	2	\$45.95	No	\$36.87	-\$9.08
887	12-Dec-11	19	3	\$247.13	No	\$36.87	-\$210.26
888	12-Dec-11	19	4	\$45.93	No	\$36.87	-\$9.06
889	12-Dec-11	19	5	\$124.76	No	\$36.87	-\$87.89
890	12-Dec-11	19	6	\$60.35	No	\$36.87	-\$23.48
891	12-Dec-11	19	7	\$60.66	No	\$36.87	-\$23.79
892	12-Dec-11	19	8	\$52.01	No	\$36.87	-\$15.14
893	12-Dec-11	19	9	\$47.08	No	\$36.87	-\$10.21
894	12-Dec-11	19	10	\$45.92	No	\$36.87	-\$9.05
895	12-Dec-11	19	11	\$45.92	No	\$36.87	-\$9.05
896	12-Dec-11	19	12	\$47.04	No	\$36.87	-\$10.17

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
897	12-Dec-11	20	1	\$45.91	Yes	\$36.87	-\$9.04
898	12-Dec-11	20	2	\$45.90	Yes	\$36.87	-\$9.03
899	12-Dec-11	20	3	\$45.00	Yes	\$36.87	-\$8.13
900	12-Dec-11	20	4	\$45.00	Yes	\$36.87	-\$8.13
901	12-Dec-11	20	5	\$45.88	Yes	\$36.87	-\$9.01
902	12-Dec-11	20	6	\$45.00	Yes	\$36.87	-\$8.13
903	12-Dec-11	20	7	\$44.93	Yes	\$36.87	-\$8.06
904	12-Dec-11	20	8	\$45.90	Yes	\$36.87	-\$9.03
905	12-Dec-11	20	9	\$45.90	Yes	\$36.87	-\$9.03
906	12-Dec-11	20	10	\$45.89	Yes	\$36.87	-\$9.02
907	12-Dec-11	20	11	\$45.89	Yes	\$36.87	-\$9.02
908	12-Dec-11	20	12	\$45.89	Yes	\$36.87	-\$9.02
909	13-Dec-11	16	1	\$26.35	Yes	\$36.39	\$10.04
910	13-Dec-11	16	2	\$26.35	Yes	\$36.39	\$10.04
911	13-Dec-11	16	3	\$26.35	Yes	\$36.39	\$10.04
912	13-Dec-11	16	4	\$26.31	Yes	\$36.39	\$10.08
913	13-Dec-11	16	5	\$26.33	Yes	\$36.39	\$10.06
914	13-Dec-11	16	6	\$26.31	Yes	\$36.39	\$10.08
915	13-Dec-11	16	7	\$26.32	Yes	\$36.39	\$10.07
916	13-Dec-11	16	8	\$26.41	Yes	\$36.39	\$9.98
917	13-Dec-11	16	9	\$26.73	Yes	\$36.39	\$9.66
918	13-Dec-11	16	10	\$26.83	Yes	\$36.39	\$9.56
919	13-Dec-11	16	11	\$26.21	Yes	\$36.39	\$10.18
920	13-Dec-11	16	12	\$25.96	Yes	\$36.39	\$10.43
921	13-Dec-11	17	1	\$21.81	No	\$36.39	\$14.58
922	13-Dec-11	17	2	\$21.81	No	\$36.39	\$14.58
923	13-Dec-11	17	3	\$18.43	No	\$36.39	\$17.96
924	13-Dec-11	17	4	\$20.92	No	\$36.39	\$15.47
925	13-Dec-11	17	5	\$21.87	No	\$36.39	\$14.52
926	13-Dec-11	17	6	\$23.25	No	\$36.39	\$13.14
927	13-Dec-11	17	7	\$22.95	No	\$36.39	\$13.44
928	13-Dec-11	17	8	\$23.25	No	\$36.39	\$13.14
929	13-Dec-11	17	9	\$26.65	No	\$36.39	\$9.74
930	13-Dec-11	17	10	\$26.28	No	\$36.39	\$10.11
931	13-Dec-11	17	11	\$27.14	No	\$36.39	\$9.25
932	13-Dec-11	17	12	\$27.47	No	\$36.39	\$8.92
933	13-Dec-11	18	1	\$24.31	Yes	\$36.39	\$12.08
934	13-Dec-11	18	2	\$25.62	Yes	\$36.39	\$10.77
935	13-Dec-11	18	3	\$26.41	Yes	\$36.39	\$9.98
936	13-Dec-11	18	4	\$27.54	Yes	\$36.39	\$8.85
937	13-Dec-11	18	5	\$27.91	Yes	\$36.39	\$8.48
938	13-Dec-11	18	6	\$28.77	Yes	\$36.39	\$7.62
939	13-Dec-11	18	6	\$28.77	Yes	\$36.39	\$7.62
940	13-Dec-11	18	7	\$32.14	Yes	\$36.39	\$4.25
941	13-Dec-11	18	7	\$32.14	Yes	\$36.39	\$4.25

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
942	13-Dec-11	18	8	\$35.43	Yes	\$36.39	\$0.96
943	13-Dec-11	18	8	\$35.43	Yes	\$36.39	\$0.96
944	13-Dec-11	18	9	\$35.43	Yes	\$36.39	\$0.96
945	13-Dec-11	18	9	\$35.43	Yes	\$36.39	\$0.96
946	13-Dec-11	18	9	\$35.43	Yes	\$36.39	\$0.96
947	13-Dec-11	18	10	\$34.08	Yes	\$36.39	\$2.31
948	13-Dec-11	18	10	\$34.08	Yes	\$36.39	\$2.31
949	13-Dec-11	18	10	\$34.08	Yes	\$36.39	\$2.31
950	13-Dec-11	18	11	\$35.19	Yes	\$36.39	\$1.20
951	13-Dec-11	18	11	\$35.19	Yes	\$36.39	\$1.20
952	13-Dec-11	18	11	\$35.19	Yes	\$36.39	\$1.20
953	13-Dec-11	18	12	\$35.22	Yes	\$36.39	\$1.17
954	13-Dec-11	18	12	\$35.22	Yes	\$36.39	\$1.17
955	13-Dec-11	18	12	\$35.22	Yes	\$36.39	\$1.17
956	13-Dec-11	19	1	\$32.03	Yes	\$36.39	\$4.36
957	13-Dec-11	19	2	\$31.92	Yes	\$36.39	\$4.47
958	13-Dec-11	19	3	\$32.03	Yes	\$36.39	\$4.36
959	13-Dec-11	19	4	\$30.53	Yes	\$36.39	\$5.86
960	13-Dec-11	19	5	\$28.35	Yes	\$36.39	\$8.04
961	13-Dec-11	19	6	\$28.09	Yes	\$36.39	\$8.30
962	13-Dec-11	19	7	\$28.02	Yes	\$36.39	\$8.37
963	13-Dec-11	19	8	\$28.24	Yes	\$36.39	\$8.15
964	13-Dec-11	19	9	\$28.95	Yes	\$36.39	\$7.44
965	13-Dec-11	19	10	\$28.48	Yes	\$36.39	\$7.91
966	13-Dec-11	19	11	\$28.48	Yes	\$36.39	\$7.91
967	13-Dec-11	19	12	\$28.48	Yes	\$36.39	\$7.91
968	14-Dec-11	7	9	\$26.11	No	\$36.76	\$10.65
969	14-Dec-11	7	10	\$26.51	No	\$36.76	\$10.25
970	14-Dec-11	7	11	\$27.01	No	\$36.76	\$9.75
971	14-Dec-11	7	12	\$28.17	No	\$36.76	\$8.59
972	14-Dec-11	8	1	\$26.86	No	\$36.76	\$9.90
973	14-Dec-11	8	2	\$26.24	No	\$36.76	\$10.52
974	14-Dec-11	8	3	\$27.40	No	\$36.76	\$9.36
975	14-Dec-11	8	4	\$28.20	No	\$36.76	\$8.56
976	14-Dec-11	8	5	\$33.52	No	\$36.76	\$3.24
977	14-Dec-11	8	6	\$33.52	No	\$36.76	\$3.24
978	14-Dec-11	8	7	\$33.47	No	\$36.76	\$3.29
979	14-Dec-11	8	8	\$32.61	No	\$36.76	\$4.15
980	14-Dec-11	8	9	\$33.82	No	\$36.76	\$2.94
981	14-Dec-11	8	10	\$33.78	No	\$36.76	\$2.98
982	14-Dec-11	8	11	\$33.78	No	\$36.76	\$2.98
983	14-Dec-11	8	12	\$33.78	No	\$36.76	\$2.98
984	14-Dec-11	9	1	\$33.77	No	\$36.76	\$2.99
985	14-Dec-11	9	2	\$32.50	No	\$36.76	\$4.26
986	14-Dec-11	9	3	\$31.53	No	\$36.76	\$5.23

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
987	14-Dec-11	9	4	\$30.73	No	\$36.76	\$6.03
988	14-Dec-11	9	5	\$30.73	No	\$36.76	\$6.03
989	14-Dec-11	9	6	\$28.96	No	\$36.76	\$7.80
990	14-Dec-11	9	7	\$28.43	No	\$36.76	\$8.33
991	14-Dec-11	9	8	\$27.70	No	\$36.76	\$9.06
992	14-Dec-11	9	9	\$27.64	No	\$36.76	\$9.12
993	14-Dec-11	9	10	\$27.66	No	\$36.76	\$9.10
994	14-Dec-11	9	11	\$27.66	No	\$36.76	\$9.10
995	14-Dec-11	9	12	\$27.01	No	\$36.76	\$9.75
996	14-Dec-11	10	1	\$26.49	No	\$36.76	\$10.27
997	14-Dec-11	10	2	\$26.49	No	\$36.76	\$10.27
998	14-Dec-11	10	3	\$26.49	No	\$36.76	\$10.27
999	14-Dec-11	10	4	\$26.55	No	\$36.76	\$10.21
1000	14-Dec-11	10	5	\$26.55	No	\$36.76	\$10.21
1001	14-Dec-11	10	6	\$26.55	No	\$36.76	\$10.21
1002	14-Dec-11	10	7	\$26.53	No	\$36.76	\$10.23
1003	14-Dec-11	10	8	\$26.49	No	\$36.76	\$10.27
1004	14-Dec-11	10	9	\$26.49	No	\$36.76	\$10.27
1005	14-Dec-11	10	10	\$26.54	No	\$36.76	\$10.22
1006	14-Dec-11	10	11	\$26.89	No	\$36.76	\$9.87
1007	14-Dec-11	10	12	\$27.86	No	\$36.76	\$8.90
1008	14-Dec-11	11	1	\$27.63	No	\$36.76	\$9.13
1009	14-Dec-11	11	2	\$27.89	No	\$36.76	\$8.87
1010	14-Dec-11	11	3	\$29.28	No	\$36.76	\$7.48
1011	14-Dec-11	11	4	\$27.85	No	\$36.76	\$8.91
1012	14-Dec-11	11	5	\$27.85	No	\$36.76	\$8.91
1013	14-Dec-11	11	6	\$27.85	No	\$36.76	\$8.91
1014	14-Dec-11	11	7	\$27.62	No	\$36.76	\$9.14
1015	14-Dec-11	11	8	\$29.26	No	\$36.76	\$7.50
1016	14-Dec-11	11	9	\$29.26	No	\$36.76	\$7.50
1017	14-Dec-11	11	10	\$29.28	No	\$36.76	\$7.48
1018	14-Dec-11	11	11	\$27.89	No	\$36.76	\$8.87
1019	14-Dec-11	11	12	\$27.23	No	\$36.76	\$9.53
1020	14-Dec-11	12	1	\$25.88	No	\$36.76	\$10.88
1021	14-Dec-11	12	2	\$25.88	No	\$36.76	\$10.88
1022	14-Dec-11	12	3	\$25.75	No	\$36.76	\$11.01
1023	14-Dec-11	12	4	\$25.66	No	\$36.76	\$11.10
1024	14-Dec-11	12	5	\$25.66	No	\$36.76	\$11.10
1025	14-Dec-11	12	6	\$25.53	No	\$36.76	\$11.23
1026	14-Dec-11	12	7	\$25.52	No	\$36.76	\$11.24
1027	14-Dec-11	12	8	\$25.13	No	\$36.76	\$11.63
1028	14-Dec-11	12	9	\$25.69	No	\$36.76	\$11.07
1029	14-Dec-11	12	10	\$25.70	No	\$36.76	\$11.06
1030	14-Dec-11	12	11	\$24.96	No	\$36.76	\$11.80
1031	14-Dec-11	12	12	\$24.93	No	\$36.76	\$11.83

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1032	14-Dec-11	13	1	\$24.97	No	\$36.76	\$11.79
1033	14-Dec-11	13	2	\$24.90	No	\$36.76	\$11.86
1034	14-Dec-11	13	3	\$24.88	No	\$36.76	\$11.88
1035	14-Dec-11	13	4	\$24.88	No	\$36.76	\$11.88
1036	14-Dec-11	13	5	\$25.71	No	\$36.76	\$11.05
1037	14-Dec-11	13	6	\$25.71	No	\$36.76	\$11.05
1038	14-Dec-11	13	7	\$24.97	No	\$36.76	\$11.79
1039	14-Dec-11	13	8	\$25.03	No	\$36.76	\$11.73
1040	14-Dec-11	13	9	\$25.03	No	\$36.76	\$11.73
1041	14-Dec-11	13	10	\$25.07	No	\$36.76	\$11.69
1042	14-Dec-11	13	11	\$24.13	No	\$36.76	\$12.63
1043	14-Dec-11	13	12	\$24.75	No	\$36.76	\$12.01
1044	14-Dec-11	14	1	\$24.13	No	\$36.76	\$12.63
1045	14-Dec-11	14	2	\$24.13	No	\$36.76	\$12.63
1046	14-Dec-11	14	3	\$24.13	No	\$36.76	\$12.63
1047	14-Dec-11	14	4	\$24.18	No	\$36.76	\$12.58
1048	14-Dec-11	14	5	\$24.78	No	\$36.76	\$11.98
1049	14-Dec-11	14	6	\$24.73	No	\$36.76	\$12.03
1050	14-Dec-11	14	7	\$24.74	No	\$36.76	\$12.02
1051	14-Dec-11	14	8	\$24.18	No	\$36.76	\$12.58
1052	14-Dec-11	14	9	\$23.65	No	\$36.76	\$13.11
1053	14-Dec-11	14	10	\$23.80	No	\$36.76	\$12.96
1054	14-Dec-11	14	11	\$23.80	No	\$36.76	\$12.96
1055	14-Dec-11	14	12	\$23.37	No	\$36.76	\$13.39
1056	14-Dec-11	15	1	\$25.71	No	\$36.76	\$11.05
1057	14-Dec-11	15	2	\$25.71	No	\$36.76	\$11.05
1058	14-Dec-11	15	3	\$25.71	No	\$36.76	\$11.05
1059	14-Dec-11	15	4	\$25.90	No	\$36.76	\$10.86
1060	14-Dec-11	15	5	\$25.90	No	\$36.76	\$10.86
1061	14-Dec-11	15	6	\$25.76	No	\$36.76	\$11.00
1062	14-Dec-11	15	7	\$25.73	No	\$36.76	\$11.03
1063	14-Dec-11	15	8	\$25.84	No	\$36.76	\$10.92
1064	14-Dec-11	15	9	\$25.84	No	\$36.76	\$10.92
1065	14-Dec-11	15	10	\$25.71	No	\$36.76	\$11.05
1066	14-Dec-11	15	11	\$25.71	No	\$36.76	\$11.05
1067	14-Dec-11	15	12	\$25.71	No	\$36.76	\$11.05
1068	14-Dec-11	16	1	\$24.85	No	\$36.76	\$11.91
1069	14-Dec-11	16	2	\$24.85	No	\$36.76	\$11.91
1070	14-Dec-11	16	3	\$24.85	No	\$36.76	\$11.91
1071	14-Dec-11	16	4	\$24.81	Yes	\$36.76	\$11.95
1072	14-Dec-11	16	4	\$24.81	No	\$36.76	\$11.95
1073	14-Dec-11	16	5	\$23.34	Yes	\$36.76	\$13.42
1074	14-Dec-11	16	5	\$23.34	No	\$36.76	\$13.42
1075	14-Dec-11	16	6	\$24.23	Yes	\$36.76	\$12.53
1076	14-Dec-11	16	6	\$24.23	Yes	\$36.76	\$12.53

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1077	14-Dec-11	16	6	\$24.23	No	\$36.76	\$12.53
1078	14-Dec-11	16	7	\$25.90	Yes	\$36.76	\$10.86
1079	14-Dec-11	16	7	\$25.90	Yes	\$36.76	\$10.86
1080	14-Dec-11	16	7	\$25.90	No	\$36.76	\$10.86
1081	14-Dec-11	16	8	\$26.06	Yes	\$36.76	\$10.70
1082	14-Dec-11	16	8	\$26.06	No	\$36.76	\$10.70
1083	14-Dec-11	16	8	\$26.06	Yes	\$36.76	\$10.70
1084	14-Dec-11	16	9	\$26.06	Yes	\$36.76	\$10.70
1085	14-Dec-11	16	9	\$26.06	Yes	\$36.76	\$10.70
1086	14-Dec-11	16	9	\$26.06	No	\$36.76	\$10.70
1087	14-Dec-11	16	10	\$26.04	Yes	\$36.76	\$10.72
1088	14-Dec-11	16	10	\$26.04	Yes	\$36.76	\$10.72
1089	14-Dec-11	16	10	\$26.04	No	\$36.76	\$10.72
1090	14-Dec-11	16	11	\$25.94	Yes	\$36.76	\$10.82
1091	14-Dec-11	16	11	\$25.94	No	\$36.76	\$10.82
1092	14-Dec-11	16	11	\$25.94	Yes	\$36.76	\$10.82
1093	14-Dec-11	16	12	\$25.94	Yes	\$36.76	\$10.82
1094	14-Dec-11	16	12	\$25.94	No	\$36.76	\$10.82
1095	14-Dec-11	16	12	\$25.94	Yes	\$36.76	\$10.82
1096	14-Dec-11	17	1	\$19.03	Yes	\$36.76	\$17.73
1097	14-Dec-11	17	2	\$18.42	Yes	\$36.76	\$18.34
1098	14-Dec-11	17	3	\$15.84	Yes	\$36.76	\$20.92
1099	14-Dec-11	17	4	\$16.04	Yes	\$36.76	\$20.72
1100	14-Dec-11	17	5	\$15.75	Yes	\$36.76	\$21.01
1101	14-Dec-11	17	6	\$18.08	Yes	\$36.76	\$18.68
1102	14-Dec-11	17	7	\$18.53	Yes	\$36.76	\$18.23
1103	14-Dec-11	17	8	\$21.97	Yes	\$36.76	\$14.79
1104	14-Dec-11	17	9	\$23.97	Yes	\$36.76	\$12.79
1105	14-Dec-11	17	10	\$19.13	Yes	\$36.76	\$17.63
1106	14-Dec-11	17	11	\$23.29	Yes	\$36.76	\$13.47
1107	14-Dec-11	17	12	\$25.85	Yes	\$36.76	\$10.91
1108	14-Dec-11	18	1	\$23.78	Yes	\$36.76	\$12.98
1109	14-Dec-11	18	2	\$26.79	Yes	\$36.76	\$9.97
1110	14-Dec-11	18	3	\$27.53	Yes	\$36.76	\$9.23
1111	14-Dec-11	18	4	\$29.73	Yes	\$36.76	\$7.03
1112	14-Dec-11	18	5	\$30.93	Yes	\$36.76	\$5.83
1113	14-Dec-11	18	6	\$30.93	Yes	\$36.76	\$5.83
1114	14-Dec-11	18	7	\$35.15	Yes	\$36.76	\$1.61
1115	14-Dec-11	18	8	\$34.01	Yes	\$36.76	\$2.75
1116	14-Dec-11	18	9	\$34.01	Yes	\$36.76	\$2.75
1117	14-Dec-11	18	10	\$34.01	Yes	\$36.76	\$2.75
1118	14-Dec-11	18	11	\$34.01	Yes	\$36.76	\$2.75
1119	14-Dec-11	18	12	\$33.38	Yes	\$36.76	\$3.38
1120	14-Dec-11	19	1	\$35.00	Yes	\$36.76	\$1.76
1121	14-Dec-11	19	2	\$33.24	Yes	\$36.76	\$3.52

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1122	14-Dec-11	19	3	\$32.14	Yes	\$36.76	\$4.62
1123	14-Dec-11	19	4	\$31.82	Yes	\$36.76	\$4.94
1124	14-Dec-11	19	5	\$33.15	Yes	\$36.76	\$3.61
1125	14-Dec-11	19	6	\$30.11	Yes	\$36.76	\$6.65
1126	14-Dec-11	19	7	\$29.42	Yes	\$36.76	\$7.34
1127	14-Dec-11	19	8	\$30.91	Yes	\$36.76	\$5.85
1128	14-Dec-11	19	9	\$31.46	Yes	\$36.76	\$5.30
1129	14-Dec-11	19	10	\$30.00	Yes	\$36.76	\$6.76
1130	14-Dec-11	19	11	\$30.85	Yes	\$36.76	\$5.91
1131	14-Dec-11	19	12	\$30.85	Yes	\$36.76	\$5.91
1132	15-Dec-11	14	11	\$24.01	No	\$36.76	\$12.75
1133	15-Dec-11	14	12	\$23.52	No	\$36.76	\$13.24
1134	15-Dec-11	15	1	\$25.59	No	\$36.76	\$11.17
1135	15-Dec-11	15	2	\$25.90	No	\$36.76	\$10.86
1136	15-Dec-11	15	3	\$26.03	No	\$36.76	\$10.73
1137	15-Dec-11	15	4	\$26.49	No	\$36.76	\$10.27
1138	15-Dec-11	15	5	\$27.73	No	\$36.76	\$9.03
1139	15-Dec-11	15	6	\$26.77	No	\$36.76	\$9.99
1140	15-Dec-11	15	7	\$26.50	No	\$36.76	\$10.26
1141	15-Dec-11	15	8	\$26.53	No	\$36.76	\$10.23
1142	15-Dec-11	15	9	\$26.75	No	\$36.76	\$10.01
1143	15-Dec-11	15	10	\$27.56	No	\$36.76	\$9.20
1144	15-Dec-11	15	11	\$26.79	No	\$36.76	\$9.97
1145	15-Dec-11	15	12	\$27.76	No	\$36.76	\$9.00
1146	15-Dec-11	16	1	\$27.77	No	\$36.76	\$8.99
1147	15-Dec-11	16	2	\$27.77	No	\$36.76	\$8.99
1148	15-Dec-11	16	3	\$27.75	Yes	\$36.76	\$9.01
1149	15-Dec-11	16	3	\$27.75	No	\$36.76	\$9.01
1150	15-Dec-11	16	4	\$27.75	Yes	\$36.76	\$9.01
1151	15-Dec-11	16	4	\$27.75	No	\$36.76	\$9.01
1152	15-Dec-11	16	5	\$27.96	Yes	\$36.76	\$8.80
1153	15-Dec-11	16	5	\$27.96	No	\$36.76	\$8.80
1154	15-Dec-11	16	6	\$28.02	Yes	\$36.76	\$8.74
1155	15-Dec-11	16	6	\$28.02	No	\$36.76	\$8.74
1156	15-Dec-11	16	7	\$27.92	Yes	\$36.76	\$8.84
1157	15-Dec-11	16	7	\$27.92	No	\$36.76	\$8.84
1158	15-Dec-11	16	8	\$27.92	Yes	\$36.76	\$8.84
1159	15-Dec-11	16	8	\$27.92	No	\$36.76	\$8.84
1160	15-Dec-11	16	9	\$27.92	Yes	\$36.76	\$8.84
1161	15-Dec-11	16	9	\$27.92	No	\$36.76	\$8.84
1162	15-Dec-11	16	10	\$27.97	Yes	\$36.76	\$8.79
1163	15-Dec-11	16	10	\$27.97	No	\$36.76	\$8.79
1164	15-Dec-11	16	11	\$27.97	No	\$36.76	\$8.79
1165	15-Dec-11	16	11	\$27.97	Yes	\$36.76	\$8.79
1166	15-Dec-11	16	12	\$27.97	No	\$36.76	\$8.79

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1167	15-Dec-11	16	12	\$27.97	Yes	\$36.76	\$8.79
1168	15-Dec-11	16	12	\$27.97	No	\$36.76	\$8.79
1169	15-Dec-11	17	1	\$26.77	No	\$36.76	\$9.99
1170	15-Dec-11	17	2	\$26.49	No	\$36.76	\$10.27
1171	15-Dec-11	17	3	\$26.57	No	\$36.76	\$10.19
1172	15-Dec-11	17	4	\$26.15	No	\$36.76	\$10.61
1173	15-Dec-11	17	5	\$27.82	No	\$36.76	\$8.94
1174	15-Dec-11	17	6	\$28.22	No	\$36.76	\$8.54
1175	15-Dec-11	17	7	\$30.46	No	\$36.76	\$6.30
1176	15-Dec-11	17	8	\$30.72	No	\$36.76	\$6.04
1177	15-Dec-11	17	9	\$33.63	No	\$36.76	\$3.13
1178	15-Dec-11	17	10	\$31.64	No	\$36.76	\$5.12
1179	15-Dec-11	17	11	\$35.35	No	\$36.76	\$1.41
1180	15-Dec-11	17	12	\$38.35	No	\$36.76	-\$1.59
1181	15-Dec-11	18	1	\$30.08	Yes	\$36.76	\$6.68
1182	15-Dec-11	18	2	\$30.62	Yes	\$36.76	\$6.14
1183	15-Dec-11	18	3	\$31.37	Yes	\$36.76	\$5.39
1184	15-Dec-11	18	4	\$33.24	Yes	\$36.76	\$3.52
1185	15-Dec-11	18	5	\$35.95	Yes	\$36.76	\$0.81
1186	15-Dec-11	18	6	\$37.35	Yes	\$36.76	-\$0.59
1187	15-Dec-11	18	7	\$37.51	Yes	\$36.76	-\$0.75
1188	15-Dec-11	18	8	\$31.39	Yes	\$36.76	\$5.37
1189	15-Dec-11	18	9	\$33.32	Yes	\$36.76	\$3.44
1190	15-Dec-11	18	10	\$37.44	Yes	\$36.76	-\$0.68
1191	15-Dec-11	18	11	\$37.44	Yes	\$36.76	-\$0.68
1192	15-Dec-11	18	12	\$36.71	Yes	\$36.76	\$0.05
1193	15-Dec-11	19	1	\$38.73	No	\$36.76	-\$1.97
1194	15-Dec-11	19	2	\$37.17	No	\$36.76	-\$0.41
1195	15-Dec-11	19	3	\$27.28	No	\$36.76	\$9.48
1196	15-Dec-11	19	4	\$27.32	No	\$36.76	\$9.44
1197	15-Dec-11	19	5	\$28.19	No	\$36.76	\$8.57
1198	15-Dec-11	19	6	\$28.19	No	\$36.76	\$8.57
1199	15-Dec-11	19	7	\$31.27	No	\$36.76	\$5.49
1200	15-Dec-11	19	8	\$31.19	No	\$36.76	\$5.57
1201	15-Dec-11	19	9	\$30.74	No	\$36.76	\$6.02
1202	15-Dec-11	19	10	\$28.43	No	\$36.76	\$8.33
1203	15-Dec-11	19	11	\$29.81	No	\$36.76	\$6.95
1204	15-Dec-11	19	12	\$28.12	No	\$36.76	\$8.64
1205	15-Dec-11	20	1	\$44.20	No	\$36.76	-\$7.44
1206	15-Dec-11	20	2	\$44.20	No	\$36.76	-\$7.44
1207	15-Dec-11	20	3	\$29.57	No	\$36.76	\$7.19
1208	15-Dec-11	20	4	\$29.72	No	\$36.76	\$7.04
1209	15-Dec-11	20	5	\$35.41	No	\$36.76	\$1.35
1210	15-Dec-11	20	6	\$35.41	No	\$36.76	\$1.35
1211	15-Dec-11	20	7	\$35.39	No	\$36.76	\$1.37

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1212	15-Dec-11	20	8	\$36.49	No	\$36.76	\$0.27
1213	15-Dec-11	20	9	\$34.32	No	\$36.76	\$2.44
1214	15-Dec-11	20	10	\$29.78	No	\$36.76	\$6.98
1215	15-Dec-11	20	11	\$29.78	No	\$36.76	\$6.98
1216	15-Dec-11	20	12	\$29.68	No	\$36.76	\$7.08
1217	16-Dec-11	17	4	\$22.22	Yes	\$35.91	\$13.69
1218	16-Dec-11	17	5	\$22.40	Yes	\$35.91	\$13.51
1219	16-Dec-11	17	6	\$23.47	Yes	\$35.91	\$12.44
1220	16-Dec-11	17	7	\$23.50	Yes	\$35.91	\$12.41
1221	16-Dec-11	17	8	\$23.80	Yes	\$35.91	\$12.11
1222	16-Dec-11	17	9	\$26.07	Yes	\$35.91	\$9.84
1223	16-Dec-11	17	10	\$27.29	Yes	\$35.91	\$8.62
1224	16-Dec-11	17	11	\$27.80	Yes	\$35.91	\$8.11
1225	16-Dec-11	17	12	\$27.80	Yes	\$35.91	\$8.11
1226	16-Dec-11	18	1	\$23.51	No	\$35.91	\$12.40
1227	16-Dec-11	18	2	\$23.68	No	\$35.91	\$12.23
1228	16-Dec-11	18	3	\$24.29	No	\$35.91	\$11.62
1229	16-Dec-11	18	4	\$25.91	No	\$35.91	\$10.00
1230	16-Dec-11	18	5	\$26.39	No	\$35.91	\$9.52
1231	16-Dec-11	18	6	\$26.80	No	\$35.91	\$9.11
1232	16-Dec-11	18	7	\$27.80	No	\$35.91	\$8.11
1233	16-Dec-11	18	8	\$29.80	No	\$35.91	\$6.11
1234	16-Dec-11	18	9	\$29.80	No	\$35.91	\$6.11
1235	16-Dec-11	18	10	\$29.58	No	\$35.91	\$6.33
1236	16-Dec-11	18	11	\$29.86	No	\$35.91	\$6.05
1237	16-Dec-11	18	12	\$29.58	No	\$35.91	\$6.33
1238	16-Dec-11	19	1	\$45.19	No	\$35.91	-\$9.28
1239	16-Dec-11	19	2	\$36.34	No	\$35.91	-\$0.43
1240	16-Dec-11	19	3	\$27.84	No	\$35.91	\$8.07
1241	16-Dec-11	19	4	\$29.60	No	\$35.91	\$6.31
1242	16-Dec-11	19	5	\$31.96	No	\$35.91	\$3.95
1243	16-Dec-11	19	6	\$33.64	No	\$35.91	\$2.27
1244	16-Dec-11	19	7	\$33.56	No	\$35.91	\$2.35
1245	16-Dec-11	19	8	\$30.64	No	\$35.91	\$5.27
1246	16-Dec-11	19	9	\$30.15	No	\$35.91	\$5.76
1247	16-Dec-11	19	10	\$33.39	No	\$35.91	\$2.52
1248	16-Dec-11	19	11	\$33.39	No	\$35.91	\$2.52
1249	16-Dec-11	19	12	\$30.81	No	\$35.91	\$5.10
1250	16-Dec-11	20	1	\$33.28	No	\$35.91	\$2.63
1251	16-Dec-11	20	2	\$31.15	No	\$35.91	\$4.76
1252	16-Dec-11	20	3	\$30.86	No	\$35.91	\$5.05
1253	16-Dec-11	20	4	\$30.89	No	\$35.91	\$5.02
1254	16-Dec-11	20	5	\$30.89	No	\$35.91	\$5.02
1255	16-Dec-11	20	6	\$29.86	No	\$35.91	\$6.05
1256	16-Dec-11	20	7	\$29.86	No	\$35.91	\$6.05

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1257	16-Dec-11	20	8	\$29.96	No	\$35.91	\$5.95
1258	16-Dec-11	20	9	\$29.96	No	\$35.91	\$5.95
1259	16-Dec-11	20	10	\$27.75	No	\$35.91	\$8.16
1260	16-Dec-11	20	11	\$27.75	No	\$35.91	\$8.16
1261	16-Dec-11	20	12	\$27.75	No	\$35.91	\$8.16
1262	19-Dec-11	6	1	-\$28.94	Yes	\$31.63	\$60.57
1263	19-Dec-11	6	2	\$7.81	Yes	\$31.63	\$23.82
1264	19-Dec-11	6	3	\$21.30	Yes	\$31.63	\$10.33
1265	19-Dec-11	6	4	\$20.86	Yes	\$31.63	\$10.77
1266	19-Dec-11	6	5	\$21.75	Yes	\$31.63	\$9.88
1267	19-Dec-11	6	6	\$21.82	Yes	\$31.63	\$9.81
1268	19-Dec-11	6	7	\$21.84	Yes	\$31.63	\$9.79
1269	19-Dec-11	6	8	\$21.85	Yes	\$31.63	\$9.78
1270	19-Dec-11	6	9	\$21.85	Yes	\$31.63	\$9.78
1271	19-Dec-11	6	10	\$24.57	Yes	\$31.63	\$7.06
1272	19-Dec-11	6	11	\$24.32	Yes	\$31.63	\$7.31
1273	19-Dec-11	6	12	\$24.14	Yes	\$31.63	\$7.49
1274	19-Dec-11	7	1	\$7.94	Yes	\$31.63	\$23.69
1275	19-Dec-11	7	2	\$8.63	Yes	\$31.63	\$23.00
1276	19-Dec-11	7	3	\$8.61	Yes	\$31.63	\$23.02
1277	19-Dec-11	7	4	\$12.43	Yes	\$31.63	\$19.20
1278	19-Dec-11	7	5	\$20.72	Yes	\$31.63	\$10.91
1279	19-Dec-11	7	6	\$20.78	Yes	\$31.63	\$10.85
1280	19-Dec-11	7	7	\$21.99	Yes	\$31.63	\$9.64
1281	19-Dec-11	7	8	\$22.00	Yes	\$31.63	\$9.63
1282	19-Dec-11	7	9	\$21.98	Yes	\$31.63	\$9.65
1283	19-Dec-11	7	10	\$21.70	Yes	\$31.63	\$9.93
1284	19-Dec-11	7	11	\$21.67	Yes	\$31.63	\$9.96
1285	19-Dec-11	7	12	\$22.09	Yes	\$31.63	\$9.54
1286	19-Dec-11	8	1	\$22.73	Yes	\$31.63	\$8.90
1287	19-Dec-11	8	2	\$23.87	Yes	\$31.63	\$7.76
1288	19-Dec-11	8	3	\$20.56	Yes	\$31.63	\$11.07
1289	19-Dec-11	8	4	\$20.82	Yes	\$31.63	\$10.81
1290	19-Dec-11	8	5	\$21.78	Yes	\$31.63	\$9.85
1291	19-Dec-11	8	6	\$21.78	Yes	\$31.63	\$9.85
1292	19-Dec-11	8	7	\$21.93	Yes	\$31.63	\$9.70
1293	19-Dec-11	8	8	\$22.08	Yes	\$31.63	\$9.55
1294	19-Dec-11	8	9	\$22.08	Yes	\$31.63	\$9.55
1295	19-Dec-11	8	10	\$20.86	Yes	\$31.63	\$10.77
1296	19-Dec-11	8	11	\$21.81	Yes	\$31.63	\$9.82
1297	19-Dec-11	8	12	\$21.81	Yes	\$31.63	\$9.82
1298	19-Dec-11	9	1	\$23.64	Yes	\$31.63	\$7.99
1299	19-Dec-11	9	2	\$24.06	Yes	\$31.63	\$7.57
1300	19-Dec-11	9	3	\$23.92	Yes	\$31.63	\$7.71
1301	19-Dec-11	9	4	\$23.92	Yes	\$31.63	\$7.71

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1302	19-Dec-11	9	5	\$24.50	Yes	\$31.63	\$7.13
1303	19-Dec-11	9	6	\$25.92	Yes	\$31.63	\$5.71
1304	19-Dec-11	9	7	\$25.14	Yes	\$31.63	\$6.49
1305	19-Dec-11	9	8	\$24.83	Yes	\$31.63	\$6.80
1306	19-Dec-11	9	9	\$25.02	Yes	\$31.63	\$6.61
1307	19-Dec-11	9	10	\$25.33	Yes	\$31.63	\$6.30
1308	19-Dec-11	9	11	\$25.33	Yes	\$31.63	\$6.30
1309	19-Dec-11	9	12	\$25.33	Yes	\$31.63	\$6.30
1310	19-Dec-11	10	1	\$25.37	Yes	\$31.63	\$6.26
1311	19-Dec-11	10	2	\$25.37	Yes	\$31.63	\$6.26
1312	19-Dec-11	10	3	\$24.89	Yes	\$31.63	\$6.74
1313	19-Dec-11	10	4	\$25.12	Yes	\$31.63	\$6.51
1314	19-Dec-11	10	5	\$25.11	Yes	\$31.63	\$6.52
1315	19-Dec-11	10	6	\$25.09	Yes	\$31.63	\$6.54
1316	19-Dec-11	10	7	\$25.16	Yes	\$31.63	\$6.47
1317	19-Dec-11	10	8	\$25.37	Yes	\$31.63	\$6.26
1318	19-Dec-11	10	9	\$25.21	Yes	\$31.63	\$6.42
1319	19-Dec-11	10	10	\$25.15	Yes	\$31.63	\$6.48
1320	19-Dec-11	10	11	\$24.91	Yes	\$31.63	\$6.72
1321	19-Dec-11	10	12	\$24.54	Yes	\$31.63	\$7.09
1322	19-Dec-11	11	1	\$24.90	Yes	\$31.63	\$6.73
1323	19-Dec-11	11	2	\$24.90	Yes	\$31.63	\$6.73
1324	19-Dec-11	11	3	\$24.90	Yes	\$31.63	\$6.73
1325	19-Dec-11	11	4	\$24.83	Yes	\$31.63	\$6.80
1326	19-Dec-11	11	5	\$25.13	Yes	\$31.63	\$6.50
1327	19-Dec-11	11	6	\$25.13	Yes	\$31.63	\$6.50
1328	19-Dec-11	11	7	\$25.42	Yes	\$31.63	\$6.21
1329	19-Dec-11	11	8	\$24.91	Yes	\$31.63	\$6.72
1330	19-Dec-11	11	9	\$24.91	Yes	\$31.63	\$6.72
1331	19-Dec-11	11	10	\$24.92	Yes	\$31.63	\$6.71
1332	19-Dec-11	11	11	\$24.92	Yes	\$31.63	\$6.71
1333	19-Dec-11	11	12	\$24.97	Yes	\$31.63	\$6.66
1334	19-Dec-11	12	1	\$25.42	Yes	\$31.63	\$6.21
1335	19-Dec-11	12	2	\$25.42	Yes	\$31.63	\$6.21
1336	19-Dec-11	12	3	\$25.42	Yes	\$31.63	\$6.21
1337	19-Dec-11	12	4	\$25.46	Yes	\$31.63	\$6.17
1338	19-Dec-11	12	5	\$25.46	Yes	\$31.63	\$6.17
1339	19-Dec-11	12	6	\$25.46	Yes	\$31.63	\$6.17
1340	19-Dec-11	12	7	\$25.44	Yes	\$31.63	\$6.19
1341	19-Dec-11	12	8	\$25.46	Yes	\$31.63	\$6.17
1342	19-Dec-11	12	9	\$25.46	Yes	\$31.63	\$6.17
1343	19-Dec-11	12	10	\$25.50	Yes	\$31.63	\$6.13
1344	19-Dec-11	12	11	\$25.50	Yes	\$31.63	\$6.13
1345	19-Dec-11	12	12	\$25.26	Yes	\$31.63	\$6.37
1346	19-Dec-11	13	1	\$25.98	Yes	\$31.63	\$5.65

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1347	19-Dec-11	13	2	\$25.73	Yes	\$31.63	\$5.90
1348	19-Dec-11	13	3	\$25.01	Yes	\$31.63	\$6.62
1349	19-Dec-11	13	4	\$25.24	Yes	\$31.63	\$6.39
1350	19-Dec-11	13	5	\$24.85	Yes	\$31.63	\$6.78
1351	19-Dec-11	13	6	\$24.85	Yes	\$31.63	\$6.78
1352	19-Dec-11	13	7	\$24.52	Yes	\$31.63	\$7.11
1353	19-Dec-11	13	8	\$24.52	Yes	\$31.63	\$7.11
1354	19-Dec-11	13	9	\$24.10	Yes	\$31.63	\$7.53
1355	19-Dec-11	13	10	\$24.49	Yes	\$31.63	\$7.14
1356	19-Dec-11	13	11	\$24.49	Yes	\$31.63	\$7.14
1357	19-Dec-11	13	12	\$24.04	Yes	\$31.63	\$7.59
1358	19-Dec-11	14	1	\$24.40	Yes	\$31.63	\$7.23
1359	19-Dec-11	14	2	\$24.40	Yes	\$31.63	\$7.23
1360	19-Dec-11	14	3	\$24.00	Yes	\$31.63	\$7.63
1361	19-Dec-11	14	4	\$23.88	Yes	\$31.63	\$7.75
1362	19-Dec-11	14	5	\$22.84	Yes	\$31.63	\$8.79
1363	19-Dec-11	14	6	\$22.84	Yes	\$31.63	\$8.79
1364	19-Dec-11	14	7	\$22.46	Yes	\$31.63	\$9.17
1365	19-Dec-11	14	8	\$22.49	Yes	\$31.63	\$9.14
1366	19-Dec-11	14	9	\$22.49	Yes	\$31.63	\$9.14
1367	19-Dec-11	14	10	\$22.51	Yes	\$31.63	\$9.12
1368	19-Dec-11	14	11	\$22.51	Yes	\$31.63	\$9.12
1369	19-Dec-11	14	12	\$22.21	Yes	\$31.63	\$9.42
1370	19-Dec-11	15	1	\$22.49	Yes	\$31.63	\$9.14
1371	19-Dec-11	15	2	\$22.49	Yes	\$31.63	\$9.14
1372	19-Dec-11	15	3	\$22.49	Yes	\$31.63	\$9.14
1373	19-Dec-11	15	4	\$22.44	Yes	\$31.63	\$9.19
1374	19-Dec-11	15	5	\$22.44	Yes	\$31.63	\$9.19
1375	19-Dec-11	15	6	\$22.44	Yes	\$31.63	\$9.19
1376	19-Dec-11	15	7	\$22.46	Yes	\$31.63	\$9.17
1377	19-Dec-11	15	8	\$22.98	Yes	\$31.63	\$8.65
1378	19-Dec-11	15	9	\$22.98	Yes	\$31.63	\$8.65
1379	19-Dec-11	15	10	\$22.97	Yes	\$31.63	\$8.66
1380	19-Dec-11	15	11	\$22.97	Yes	\$31.63	\$8.66
1381	19-Dec-11	15	12	\$22.48	Yes	\$31.63	\$9.15
1382	19-Dec-11	16	1	\$22.43	Yes	\$31.63	\$9.20
1383	19-Dec-11	16	2	\$22.59	Yes	\$31.63	\$9.04
1384	19-Dec-11	16	3	\$22.27	Yes	\$31.63	\$9.36
1385	19-Dec-11	16	4	\$22.38	Yes	\$31.63	\$9.25
1386	19-Dec-11	16	5	\$22.38	Yes	\$31.63	\$9.25
1387	19-Dec-11	16	6	\$22.38	Yes	\$31.63	\$9.25
1388	19-Dec-11	16	7	\$22.40	Yes	\$31.63	\$9.23
1389	19-Dec-11	16	8	\$22.95	Yes	\$31.63	\$8.68
1390	19-Dec-11	16	9	\$23.91	Yes	\$31.63	\$7.72
1391	19-Dec-11	16	10	\$24.90	Yes	\$31.63	\$6.73

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1392	19-Dec-11	16	11	\$25.36	Yes	\$31.63	\$6.27
1393	19-Dec-11	16	12	\$25.25	Yes	\$31.63	\$6.38
1394	19-Dec-11	17	1	\$24.03	Yes	\$31.63	\$7.60
1395	19-Dec-11	17	2	\$24.54	Yes	\$31.63	\$7.09
1396	19-Dec-11	17	3	\$24.85	Yes	\$31.63	\$6.78
1397	19-Dec-11	17	4	\$25.13	Yes	\$34.38	\$9.25
1398	19-Dec-11	17	4	\$25.13	Yes	\$31.63	\$6.50
1399	19-Dec-11	17	5	\$25.13	Yes	\$34.38	\$9.25
1400	19-Dec-11	17	5	\$25.13	Yes	\$31.63	\$6.50
1401	19-Dec-11	17	6	\$25.74	Yes	\$34.38	\$8.64
1402	19-Dec-11	17	6	\$25.74	Yes	\$31.63	\$5.89
1403	19-Dec-11	17	7	\$26.36	Yes	\$34.38	\$8.02
1404	19-Dec-11	17	7	\$26.36	Yes	\$31.63	\$5.27
1405	19-Dec-11	17	8	\$27.07	Yes	\$34.38	\$7.31
1406	19-Dec-11	17	8	\$27.07	Yes	\$31.63	\$4.56
1407	19-Dec-11	17	9	\$27.84	Yes	\$34.38	\$6.54
1408	19-Dec-11	17	9	\$27.84	Yes	\$31.63	\$3.79
1409	19-Dec-11	17	10	\$26.63	Yes	\$34.38	\$7.75
1410	19-Dec-11	17	10	\$26.63	Yes	\$31.63	\$5.00
1411	19-Dec-11	17	11	\$27.86	Yes	\$34.38	\$6.52
1412	19-Dec-11	17	11	\$27.86	Yes	\$31.63	\$3.77
1413	19-Dec-11	17	12	\$27.86	Yes	\$34.38	\$6.52
1414	19-Dec-11	17	12	\$27.86	Yes	\$31.63	\$3.77
1415	19-Dec-11	18	1	\$25.31	Yes	\$34.38	\$9.07
1416	19-Dec-11	18	1	\$25.31	Yes	\$31.63	\$6.32
1417	19-Dec-11	18	2	\$25.31	Yes	\$34.38	\$9.07
1418	19-Dec-11	18	2	\$25.31	Yes	\$31.63	\$6.32
1419	19-Dec-11	18	3	\$25.54	Yes	\$34.38	\$8.84
1420	19-Dec-11	18	3	\$25.54	Yes	\$31.63	\$6.09
1421	19-Dec-11	18	4	\$27.10	Yes	\$34.38	\$7.28
1422	19-Dec-11	18	4	\$27.10	Yes	\$31.63	\$4.53
1423	19-Dec-11	18	5	\$27.36	Yes	\$34.38	\$7.02
1424	19-Dec-11	18	5	\$27.36	Yes	\$31.63	\$4.27
1425	19-Dec-11	18	6	\$27.87	Yes	\$34.38	\$6.51
1426	19-Dec-11	18	6	\$27.87	Yes	\$31.63	\$3.76
1427	19-Dec-11	18	7	\$27.87	Yes	\$34.38	\$6.51
1428	19-Dec-11	18	7	\$27.87	Yes	\$31.63	\$3.76
1429	19-Dec-11	18	8	\$29.08	Yes	\$34.38	\$5.30
1430	19-Dec-11	18	8	\$29.08	Yes	\$31.63	\$2.55
1431	19-Dec-11	18	9	\$30.50	Yes	\$34.38	\$3.88
1432	19-Dec-11	18	9	\$30.50	Yes	\$31.63	\$1.13
1433	19-Dec-11	18	10	\$31.49	Yes	\$34.38	\$2.89
1434	19-Dec-11	18	10	\$31.49	Yes	\$31.63	\$0.14
1435	19-Dec-11	18	11	\$30.92	Yes	\$34.38	\$3.46
1436	19-Dec-11	18	11	\$30.92	Yes	\$31.63	\$0.71

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1437	19-Dec-11	18	12	\$30.27	Yes	\$34.38	\$4.11
1438	19-Dec-11	18	12	\$30.27	Yes	\$31.63	\$1.36
1439	19-Dec-11	19	1	\$30.40	Yes	\$34.38	\$3.98
1440	19-Dec-11	19	1	\$30.40	Yes	\$31.63	\$1.23
1441	19-Dec-11	19	2	\$27.86	Yes	\$31.63	\$3.77
1442	19-Dec-11	19	2	\$27.86	Yes	\$34.38	\$6.52
1443	19-Dec-11	19	3	\$23.06	Yes	\$31.63	\$8.57
1444	19-Dec-11	19	3	\$23.06	Yes	\$34.38	\$11.32
1445	19-Dec-11	19	4	\$25.57	Yes	\$31.63	\$6.06
1446	19-Dec-11	19	4	\$25.57	Yes	\$34.38	\$8.81
1447	19-Dec-11	19	5	\$27.08	Yes	\$31.63	\$4.55
1448	19-Dec-11	19	5	\$27.08	Yes	\$34.38	\$7.30
1449	19-Dec-11	19	6	\$27.37	Yes	\$31.63	\$4.26
1450	19-Dec-11	19	6	\$27.37	Yes	\$34.38	\$7.01
1451	19-Dec-11	19	7	\$27.37	Yes	\$31.63	\$4.26
1452	19-Dec-11	19	7	\$27.37	Yes	\$34.38	\$7.01
1453	19-Dec-11	19	8	\$27.78	Yes	\$31.63	\$3.85
1454	19-Dec-11	19	8	\$27.78	Yes	\$34.38	\$6.60
1455	19-Dec-11	19	9	\$27.18	Yes	\$31.63	\$4.45
1456	19-Dec-11	19	9	\$27.18	Yes	\$34.38	\$7.20
1457	19-Dec-11	19	10	\$30.03	Yes	\$31.63	\$1.60
1458	19-Dec-11	19	10	\$30.03	Yes	\$34.38	\$4.35
1459	19-Dec-11	19	11	\$27.79	Yes	\$31.63	\$3.84
1460	19-Dec-11	19	11	\$27.79	Yes	\$34.38	\$6.59
1461	19-Dec-11	19	12	\$27.78	Yes	\$31.63	\$3.85
1462	19-Dec-11	19	12	\$27.78	Yes	\$34.38	\$6.60
1463	19-Dec-11	20	1	\$27.81	Yes	\$34.38	\$6.57
1464	19-Dec-11	20	1	\$27.81	Yes	\$31.63	\$3.82
1465	19-Dec-11	20	2	\$27.81	Yes	\$34.38	\$6.57
1466	19-Dec-11	20	2	\$27.81	Yes	\$31.63	\$3.82
1467	19-Dec-11	20	3	\$26.98	Yes	\$34.38	\$7.40
1468	19-Dec-11	20	3	\$26.98	Yes	\$31.63	\$4.65
1469	19-Dec-11	20	4	\$26.90	Yes	\$34.38	\$7.48
1470	19-Dec-11	20	4	\$26.90	Yes	\$31.63	\$4.73
1471	19-Dec-11	20	5	\$26.90	Yes	\$34.38	\$7.48
1472	19-Dec-11	20	5	\$26.90	Yes	\$31.63	\$4.73
1473	19-Dec-11	20	6	\$26.90	Yes	\$34.38	\$7.48
1474	19-Dec-11	20	6	\$26.90	Yes	\$31.63	\$4.73
1475	19-Dec-11	20	7	\$26.91	Yes	\$34.38	\$7.47
1476	19-Dec-11	20	7	\$26.91	Yes	\$31.63	\$4.72
1477	19-Dec-11	20	8	\$26.92	Yes	\$34.38	\$7.46
1478	19-Dec-11	20	8	\$26.92	Yes	\$31.63	\$4.71
1479	19-Dec-11	20	9	\$26.78	Yes	\$34.38	\$7.60
1480	19-Dec-11	20	9	\$26.78	Yes	\$31.63	\$4.85
1481	19-Dec-11	20	10	\$25.99	Yes	\$34.38	\$8.39

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1482	19-Dec-11	20	10	\$25.99	Yes	\$31.63	\$5.64
1483	19-Dec-11	20	11	\$25.99	Yes	\$34.38	\$8.39
1484	19-Dec-11	20	11	\$25.99	Yes	\$31.63	\$5.64
1485	19-Dec-11	20	12	\$25.97	Yes	\$34.38	\$8.41
1486	19-Dec-11	20	12	\$25.97	Yes	\$31.63	\$5.66
1487	19-Dec-11	21	1	\$30.10	Yes	\$31.63	\$1.53
1488	19-Dec-11	21	2	\$30.90	Yes	\$31.63	\$0.73
1489	19-Dec-11	21	3	\$27.02	Yes	\$31.63	\$4.61
1490	19-Dec-11	21	4	\$27.77	Yes	\$31.63	\$3.86
1491	19-Dec-11	21	5	\$27.04	Yes	\$31.63	\$4.59
1492	19-Dec-11	21	6	\$27.77	Yes	\$31.63	\$3.86
1493	19-Dec-11	21	7	\$28.84	Yes	\$31.63	\$2.79
1494	19-Dec-11	21	8	\$27.75	Yes	\$31.63	\$3.88
1495	19-Dec-11	21	9	\$26.96	Yes	\$31.63	\$4.67
1496	19-Dec-11	21	10	\$25.98	Yes	\$31.63	\$5.65
1497	19-Dec-11	21	11	\$26.69	Yes	\$31.63	\$4.94
1498	19-Dec-11	21	12	\$25.98	Yes	\$31.63	\$5.65
1499	19-Dec-11	22	1	\$33.27	Yes	\$31.63	-\$1.64
1500	19-Dec-11	22	2	\$35.53	Yes	\$31.63	-\$3.90
1501	19-Dec-11	22	3	\$29.78	Yes	\$31.63	\$1.85
1502	19-Dec-11	22	4	\$29.79	Yes	\$31.63	\$1.84
1503	19-Dec-11	22	5	\$29.79	Yes	\$31.63	\$1.84
1504	19-Dec-11	22	6	\$28.42	Yes	\$31.63	\$3.21
1505	19-Dec-11	22	7	\$29.82	Yes	\$31.63	\$1.81
1506	19-Dec-11	22	8	\$26.70	Yes	\$31.63	\$4.93
1507	19-Dec-11	22	9	\$26.61	Yes	\$31.63	\$5.02
1508	19-Dec-11	22	10	\$26.05	Yes	\$31.63	\$5.58
1509	19-Dec-11	22	11	\$26.54	Yes	\$31.63	\$5.09
1510	19-Dec-11	22	12	\$26.62	Yes	\$31.63	\$5.01
1511	19-Dec-11	23	1	\$29.49	Yes	\$31.63	\$2.14
1512	19-Dec-11	23	2	\$27.62	Yes	\$31.63	\$4.01
1513	19-Dec-11	23	3	\$27.62	Yes	\$31.63	\$4.01
1514	19-Dec-11	23	4	\$26.98	Yes	\$31.63	\$4.65
1515	19-Dec-11	23	5	\$26.65	Yes	\$31.63	\$4.98
1516	19-Dec-11	23	6	\$26.49	Yes	\$31.63	\$5.14
1517	19-Dec-11	23	7	\$25.98	Yes	\$31.63	\$5.65
1518	19-Dec-11	23	8	\$25.54	Yes	\$31.63	\$6.09
1519	19-Dec-11	23	9	\$25.54	Yes	\$31.63	\$6.09
1520	19-Dec-11	23	10	\$25.38	Yes	\$31.63	\$6.25
1521	19-Dec-11	23	11	\$24.83	Yes	\$31.63	\$6.80
1522	19-Dec-11	23	12	\$24.80	Yes	\$31.63	\$6.83
1523	19-Dec-11	24	1	\$27.53	Yes	\$31.63	\$4.10
1524	19-Dec-11	24	2	\$27.52	Yes	\$31.63	\$4.11
1525	19-Dec-11	24	3	\$26.19	Yes	\$31.63	\$5.44
1526	19-Dec-11	24	4	\$29.67	Yes	\$31.63	\$1.96

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1527	19-Dec-11	24	5	\$27.53	Yes	\$31.63	\$4.10
1528	19-Dec-11	24	6	\$26.40	Yes	\$31.63	\$5.23
1529	19-Dec-11	24	7	\$26.19	Yes	\$31.63	\$5.44
1530	19-Dec-11	24	8	\$26.08	Yes	\$31.63	\$5.55
1531	19-Dec-11	24	9	\$26.08	Yes	\$31.63	\$5.55
1532	19-Dec-11	24	10	\$25.78	Yes	\$31.63	\$5.85
1533	19-Dec-11	24	11	\$25.30	Yes	\$31.63	\$6.33
1534	19-Dec-11	24	12	\$25.13	Yes	\$31.63	\$6.50
1535	23-Dec-11	1	6	\$24.19	No	\$33.45	\$9.26
1536	23-Dec-11	1	7	\$24.52	No	\$33.45	\$8.93
1537	23-Dec-11	1	8	\$23.93	No	\$33.45	\$9.52
1538	23-Dec-11	1	9	\$23.95	No	\$33.45	\$9.50
1539	23-Dec-11	1	10	\$23.90	No	\$33.45	\$9.55
1540	23-Dec-11	1	11	\$23.38	No	\$33.45	\$10.07
1541	23-Dec-11	1	12	\$22.61	No	\$33.45	\$10.84
1542	23-Dec-11	2	1	\$25.33	No	\$33.45	\$8.12
1543	23-Dec-11	2	2	\$25.08	No	\$33.45	\$8.37
1544	23-Dec-11	2	3	\$25.08	No	\$33.45	\$8.37
1545	23-Dec-11	2	4	\$22.56	No	\$33.45	\$10.89
1546	23-Dec-11	2	5	\$22.56	No	\$33.45	\$10.89
1547	23-Dec-11	2	6	\$22.56	No	\$33.45	\$10.89
1548	23-Dec-11	2	7	\$22.58	No	\$33.45	\$10.87
1549	23-Dec-11	2	8	\$22.29	No	\$33.45	\$11.16
1550	23-Dec-11	2	9	\$22.40	No	\$33.45	\$11.05
1551	23-Dec-11	2	10	\$21.02	No	\$33.45	\$12.43
1552	23-Dec-11	2	11	\$21.60	No	\$33.45	\$11.85
1553	23-Dec-11	2	12	\$22.09	No	\$33.45	\$11.36
1554	23-Dec-11	3	1	\$22.01	No	\$33.45	\$11.44
1555	23-Dec-11	3	2	\$22.01	No	\$33.45	\$11.44
1556	23-Dec-11	3	3	\$22.01	No	\$33.45	\$11.44
1557	23-Dec-11	3	4	\$22.02	No	\$33.45	\$11.43
1558	23-Dec-11	3	5	\$22.02	No	\$33.45	\$11.43
1559	23-Dec-11	3	6	\$22.02	No	\$33.45	\$11.43
1560	23-Dec-11	3	7	\$22.11	No	\$33.45	\$11.34
1561	23-Dec-11	3	8	\$22.16	No	\$33.45	\$11.29
1562	23-Dec-11	3	9	\$22.16	No	\$33.45	\$11.29
1563	23-Dec-11	3	10	\$21.02	No	\$33.45	\$12.43
1564	23-Dec-11	3	11	\$22.07	No	\$33.45	\$11.38
1565	23-Dec-11	3	12	\$21.02	No	\$33.45	\$12.43
1566	23-Dec-11	4	1	\$23.38	No	\$33.45	\$10.07
1567	23-Dec-11	4	2	\$23.60	No	\$33.45	\$9.85
1568	23-Dec-11	4	3	\$23.60	No	\$33.45	\$9.85
1569	23-Dec-11	4	4	\$23.38	No	\$33.45	\$10.07
1570	23-Dec-11	4	5	\$22.18	No	\$33.45	\$11.27
1571	23-Dec-11	4	6	\$24.63	No	\$33.45	\$8.82

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1572	23-Dec-11	4	7	\$24.27	No	\$33.45	\$9.18
1573	23-Dec-11	4	8	\$24.21	No	\$33.45	\$9.24
1574	23-Dec-11	4	9	\$24.60	No	\$33.45	\$8.85
1575	23-Dec-11	4	10	\$23.56	No	\$33.45	\$9.89
1576	23-Dec-11	4	11	\$24.19	No	\$33.45	\$9.26
1577	23-Dec-11	4	12	\$25.94	No	\$33.45	\$7.51
1578	23-Dec-11	5	1	\$25.97	No	\$33.45	\$7.48
1579	23-Dec-11	5	2	\$25.97	No	\$33.45	\$7.48
1580	23-Dec-11	5	3	\$26.04	No	\$33.45	\$7.41
1581	23-Dec-11	5	4	\$26.04	No	\$33.45	\$7.41
1582	23-Dec-11	5	5	\$26.47	No	\$33.45	\$6.98

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In December 2011, the ISO applied the exceptional dispatch bid mitigation to the exceptional dispatches due to noncompetitive constraints. Table 10 shows the costs by instruction type in December. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$17,038. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$9,289. The cost saving from the exceptional dispatch bid mitigation was -\$7,748.

Table 10: Bid Mitigation Analysis for December

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
Non-competitive constraint	6	\$9,079	\$16,874	-\$7,795
TMODEL5	1	\$211	\$164	\$47
Total	7	\$9,289	\$17,038	-\$7,748

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 30th day of March, 2011.

Anna Pascuzzo

Anna Pascuzzo