

October 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-____
July 2012 Exceptional Dispatch Report (Chart 2 data)**

Dear Secretary Bose:

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

The attached report provides Chart 2 data for the month of July 2012. The attached Chart 2 report also includes the price impact analysis for the month of July 2012 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 July 2012.

Respectfully submitted,

By: /s/ Sidney M. Davies

Nancy Saracino
General Counsel
Sidney M. Davies
Assistant General Counsel
California Independent System
Operator Corporation
250 Outcropping Way
Folsom, CA 95630
Tel: (916) 608-7144
Fax (916) 608-7222
sdavies@casio.com



Exceptional Dispatch Report

Table 2: July 2012

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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 July 2012.

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 July is presented in Appendix B. This report also includes the degree of mitigation analysis for July 2012 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 July 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 July 2012, the ISO issued exceptional dispatches for the following local area generation requirement: (1) 7630, SCE area generation requirements. Exceptional dispatch instructions were also issued for the following transmission management requirements: (1) 6510, Southern California import transmission (SCIT) nomogram; (2) 6610, Lugo-Victorville 500 kV Line and Sylmar Transformer Banks Operation; (3) 7110, transmission facilities in Humboldt area; (4) 7230, transmission facilities in Palermo Rio-Oso area; (5) 7320, transmission facilities in Bay Area; (6) 7430, transmission facilities in Fresno area; ; (7) 7720, Julian Hinds-Mirage 230 kV line overload mitigation & Eagle Mountain bank emergency mitigation; (8) 8710, Hoodoo Wash-N.Gila 500 kV line flow mitigation; and (9) other transmission outages in PG&E, SCE and SDG&E area.

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 July 2012 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) Market Disruption, when the exceptional dispatch instructions were issued due to HASP failures; and (3) Ramp Rate, when exceptional dispatch instructions were issued to dispatch a resource above its physical minimum to a level where the resource has significantly higher ramp rate capability. For example, a resource could have a ramp rate of 2 MW/min at its physical minimum of 100 MW, but a significantly higher ramp rate of 10 MW/min at 250 MW. The operators could issue an exceptional dispatch for this resource to be dispatched to 250 MW, so that the resource could respond to the anticipated steep load ramp or to a potential contingency. There were a few other reasons used to explain exceptional dispatch instructions in July, which are self explanatory.

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

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>

in Table 1 of the first report for July. 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:

- The MW column shows the range of exceptional dispatch instruction in MW for the classification.
- The 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.
- 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

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.

- 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 codes 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 Exceptional Dispatch Capacity Procurement Mechanism (CPM) in July 2012.

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 July 2012

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

Chart 2: Table of Exceptional Dispatches for Period 01/July/2012 - 31/July/2012

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	6510	SCE	Big Creek-Ventura	20-Jul-12	45	No	DEC	2	20:20	21:59	-59.96	\$0	\$0	\$1,387	0.00	\$0	\$0	\$0	\$0	\$0
2	RT	6510	SCE	Big Creek-Ventura	20-Jul-12	30	No	INC	3	18:40	20:19	22.01	\$0	\$0	(\$1,264)	42.65	(\$1,825)	\$0	\$0	\$0	\$0
3	RT	6510	SCE	LA Basin	9-Jul-12	360	Yes	INC	11	9:00	19:59	3823.21	\$32,032	\$0	(\$132,941)	3603.21	(\$127,304)	\$0	\$0	\$0	\$0
4	RT	6510	SCE	LA Basin	11-Jul-12	190	Yes	INC	12	7:50	18:59	1967.16	\$32,517	\$0	(\$90,012)	1722.57	(\$70,879)	\$0	\$0	\$0	\$0
5	RT	6510	SCE	LA Basin	16-Jul-12	45	No	INC	4	16:20	19:59	164.88	\$0	\$0	(\$5,880)	164.88	(\$5,880)	\$0	\$0	\$0	\$0
6	RT	6510	SCE	LA Basin	18-Jul-12	193- 385	No	INC	10	10:45	19:59	3020.82	\$0	\$0	(\$232,067)	3011.53	(\$231,724)	\$0	\$0	\$0	\$0
7	RT	6510	SCE	LA Basin	19-Jul-12	97- 468	Yes	DEC	15	7:20	21:59	-821.05	\$0	\$0	(\$4,773)	0.00	\$0	\$0	\$0	\$0	\$0
8	RT	6510	SCE	LA Basin	19-Jul-12	243- 480	Yes	INC	15	7:20	21:59	4917.14	\$0	\$0	(\$588,030)	4580.42	(\$406,537)	\$0	\$0	\$0	\$0
9	RT	6510	SCE	LA Basin	20-Jul-12	88	No	DEC	11	11:50	21:59	-0.03	\$0	\$0	(\$10)	0.00	\$0	\$0	\$0	\$0	\$0
10	RT	6510	SCE	LA Basin	20-Jul-12	25- 431	Yes	INC	19	5:00	23:59	5381.87	\$97,392	\$0	(\$446,256)	4175.26	(\$208,669)	\$0	(\$13,943)	\$0	\$0
11	RT	6510	SCE	LA Basin	21-Jul-12	120- 208	No	DEC	9	12:15	20:59	-228.01	\$0	\$0	\$8,760	0.00	\$0	\$0	\$0	\$0	\$0
12	RT	6510	SCE	LA Basin	21-Jul-12	74- 340	No	INC	9	12:15	20:59	1347.10	\$0	\$0	(\$161,258)	1345.05	(\$129,216)	\$0	\$0	\$0	\$0
13	RT	6510	SCE	LA Basin	22-Jul-12	176	No	DEC	11	11:35	21:59	-167.33	\$0	\$0	\$3,299	0.00	\$0	\$0	\$0	\$0	\$0
14	RT	6510	SCE	LA Basin	22-Jul-12	148- 340	No	INC	11	11:35	21:59	2663.75	\$0	\$0	(\$96,339)	2654.88	(\$96,122)	\$0	\$0	\$0	\$0
15	RT	6510	SCE	LA Basin	25-Jul-12	88- 146	No	DEC	14	8:40	21:59	-227.00	\$0	\$0	\$4,894	0.00	\$0	\$0	\$0	\$0	\$0
16	RT	6510	SCE	LA Basin	25-Jul-12	170- 340	No	INC	14	8:40	21:59	3750.63	\$0	\$0	(\$141,875)	3746.68	(\$141,782)	\$0	\$0	\$0	\$0
17	RT	6510	SCE	LA Basin	30-Jul-12	340	No	INC	7	12:25	18:59	1900.91	\$0	\$0	(\$72,863)	1899.94	(\$72,831)	\$0	\$0	\$0	\$0
18	RT	6510	SCE	LA Basin	31-Jul-12	340	No	INC	10	9:10	18:59	3001.43	\$0	\$0	(\$190,068)	3001.43	(\$190,068)	\$0	\$0	\$0	\$0
19	RT	6510	SDG&E	San Diego	16-Jul-12	131	No	INC	5	16:45	20:59	648.20	\$44,378	\$0	(\$11,405)	0.77	(\$28)	\$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
20	RT	6510	SDG&E	San Diego	19-Jul-12	68	No	INC	15	7:20	21:59	2387.54	\$18,169	\$7,071	(\$441,394)	20.12	(\$13,364)	\$0	\$0	\$0	\$0
21	RT	6510	SDG&E	San Diego	20-Jul-12	68	No	INC	10	12:00	21:59	-968.04	\$802	\$0	\$117,405	0.00	(\$0)	\$0	\$0	\$0	\$0
22	RT	6510	SDG&E	San Diego	21-Jul-12	60	Yes	DEC	1	23:53	23:58	-6.66	\$0	\$0	\$127	0.00	\$0	\$0	\$0	\$0	\$0
23	RT	6510	SDG&E	San Diego	21-Jul-12	69- 109	No	INC	4	20:05	23:59	273.20	\$7,088	\$0	(\$7,638)	1.92	(\$65)	\$0	\$0	\$0	\$0
24	RT	6510	SDG&E	San Diego	22-Jul-12	60	Yes	INC	24	0:00	23:59	1577.61	\$96,053	\$6,138	(\$34,438)	0.00	\$0	\$0	\$0	\$0	\$0
25	RT	6510	SDG&E	San Diego	31-Jul-12	68	No	INC	8	14:45	21:59	511.89	\$32,510	\$2,200	(\$16,339)	4.04	(\$143)	\$0	\$0	\$0	\$0
26	RT	6610	SCE	Big Creek-Ventura	31-Jul-12	87	No	DEC	1	12:41	12:45	30.16	\$0	\$0	(\$1,073)	-1.17	\$0	\$42	\$0	\$0	\$0
27	RT	6610	SCE	N/A	31-Jul-12	55	No	INC	1	12:36	12:46	9.22	\$0	\$0	(\$11,718)	0.00	\$0	\$0	\$0	\$0	\$0
28	RT	7110	PG&E	Humboldt	16-Jul-12	32	No	INC	3	14:26	16:59	23.21	\$974	\$0	(\$398)	0.18	(\$4)	\$0	\$0	(\$2)	\$0
29	RT	7110	PG&E	Humboldt	17-Jul-12	32	No	INC	2	14:26	15:59	21.39	\$433	\$0	(\$431)	8.66	(\$176)	\$0	\$0	(\$44)	\$0
30	RT	7110	PG&E	Humboldt	18-Jul-12	32	No	INC	9	8:15	16:59	-57.58	\$3,607	\$0	\$1,563	0.00	\$0	\$0	\$0	\$0	\$0
31	RT	7110	PG&E	Humboldt	19-Jul-12	32- 64	No	INC	18	6:20	23:59	298.76	\$15,727	\$0	(\$29,468)	118.61	(\$4,242)	\$0	\$0	(\$826)	\$0
32	RT	7230	PG&E	Sierra	1-Jul-12	20	Yes	INC	4	13:45	16:59	72.50	\$4,070	\$0	(\$1,448)	0.00	\$0	\$0	\$0	\$0	\$0
33	RT	7230	PG&E	Sierra	2-Jul-12	26	No	DEC	5	17:17	21:57	-116.35	\$0	\$0	(\$1,534)	-116.49	\$0	#####	\$0	(\$3,845)	\$0
34	RT	7230	PG&E	Sierra	4-Jul-12	20- 40	No	INC	1	14:20	14:59	17.13	\$0	\$0	(\$414)	5.91	(\$151)	\$0	\$0	(\$38)	\$0
35	RT	7230	PG&E	Sierra	6-Jul-12	47- 108	No	DEC	5	17:45	21:59	-903.80	\$0	\$0	\$73,509	-733.57	\$0	#####	\$0	#####	\$0
36	RT	7230	PG&E	Sierra	7-Jul-12	22- 43	No	DEC	4	18:45	21:59	-98.90	\$0	\$0	\$2,258	-89.93	\$0	\$2,105	\$0	(\$704)	\$0
37	RT	7230	PG&E	Sierra	10-Jul-12	41- 61	No	DEC	1	16:26	16:52	-43.55	\$0	\$0	\$644	-3.09	\$0	\$46	\$0	(\$0)	\$0
38	RT	7230	PG&E	Sierra	10-Jul-12	0	No	INC	1	16:26	16:51	-0.01	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
39	RT	7230	PG&E	Sierra	11-Jul-12	70	No	DEC	3	13:39	15:09	-104.03	\$0	\$0	(\$11,215)	-30.02	\$0	#####	\$0	(\$7)	\$0
40	RT	7230	PG&E	Sierra	12-Jul-12	23- 108	No	DEC	7	16:52	22:50	-329.85	\$0	\$0	\$295,835	-228.63	\$0	#####	\$0	#####	\$0
41	RT	7230	PG&E	Sierra	12-Jul-12	26- 62	No	INC	6	17:04	22:50	71.75	\$0	\$0	(\$46,401)	0.00	\$0	\$0	\$0	\$0	\$0
42	RT	7230	PG&E	Sierra	13-Jul-12	11- 49	Yes	DEC	10	12:10	21:59	-261.33	\$0	\$0	\$6,090	-81.64	\$0	\$4,583	\$0	(\$3,441)	\$0
43	RT	7230	PG&E	Sierra	13-Jul-12	2- 35	Yes	INC	10	12:10	21:59	128.88	\$4,255	\$0	(\$35,816)	0.00	\$0	\$0	\$0	\$0	\$0
44	RT	7230	PG&E	Sierra	15-Jul-12	20	Yes	INC	1	22:05	22:59	20.15	\$1,110	\$0	(\$279)	0.26	(\$5)	\$0	\$0	(\$3)	\$0
45	RT	7230	PG&E	Sierra	22-Jul-12	1- 24	Yes	DEC	9	15:10	23:59	-105.26	\$0	\$0	\$35,895	-63.94	\$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
																				#	
46	RT	7230	PG&E	Sierra	22-Jul-12	20- 119	Yes	INC	11	13:30	23:59	92.24	\$2,220	\$0	(\$4,098)	30.69	(\$555)	\$0	\$0	(\$585)	\$0
47	RT	7230	PG&E	Sierra	25-Jul-12	16	Yes	DEC	2	20:10	21:59	-9.43	\$0	\$0	\$363	0.00	\$0	\$0	\$0	\$0	\$0
48	RT	7230	PG&E	Sierra	25-Jul-12	20- 30	Yes	INC	2	20:10	21:59	34.84	\$1,850	\$0	(\$656)	3.40	(\$76)	\$0	\$0	(\$41)	\$0
49	RT	7230	PG&E	Sierra	31-Jul-12	8	Yes	DEC	2	16:52	17:59	0.38	\$0	\$0	(\$11)	0.00	\$0	\$0	\$0	\$0	\$0
50	RT	7230	PG&E	Sierra	31-Jul-12	11- 46	Yes	INC	4	15:51	18:59	107.59	\$0	\$0	(\$3,019)	0.00	\$0	\$0	\$0	\$0	\$0
51	RT	7320	PG&E	Bay Area	21-Jul-12	19	No	INC	2	11:00	12:14	18.97	\$698	\$253	(\$548)	1.92	(\$53)	\$0	\$0	(\$0)	\$0
52	RT	7320	PG&E	Bay Area	27-Jul-12	19	No	INC	3	20:36	22:18	34.48	\$1,832	\$73	(\$733)	6.89	(\$145)	\$0	\$0	(\$96)	\$0
53	RT	7430	PG&E	Fresno	1-Jul-12	0	No	INC	6	11:40	16:59	-34.51	\$0	\$0	\$541	0.00	\$0	\$0	\$0	\$0	\$0
54	RT	7430	PG&E	Fresno	5-Jul-12	61- 65	No	INC	5	0:35	4:59	97.15	\$0	\$0	(\$1,072)	0.00	\$0	\$0	\$0	\$0	\$0
55	RT	7430	PG&E	Fresno	9-Jul-12	100	Yes	DEC	1	21:35	21:59	-7.29	\$0	\$0	\$198	5.00	(\$83)	\$0	\$0	(\$44)	\$0
56	RT	7430	PG&E	Fresno	9-Jul-12	20- 240	Yes	INC	2	21:45	22:59	317.21	\$0	\$0	(\$5,671)	195.49	(\$3,582)	\$0	\$0	(\$1,683)	\$0
57	RT	7430	PG&E	Fresno	10-Jul-12	30	No	DEC	4	18:45	21:59	-6.88	\$0	\$0	\$214	0.00	\$0	\$0	\$0	\$0	\$0
58	RT	7430	PG&E	Fresno	11-Jul-12	1- 396	No	DEC	8	14:16	21:59	-841.58	\$0	\$0	\$19,574	7.56	(\$185)	\$0	\$0	(\$34)	\$0
59	RT	7430	PG&E	Fresno	11-Jul-12	20- 260	No	INC	3	15:35	17:14	390.78	\$0	\$0	(\$9,809)	363.94	(\$9,110)	\$0	\$0	(\$2,910)	\$0
60	RT	7430	PG&E	Fresno	12-Jul-12	5- 55	Yes	DEC	7	14:05	20:59	-45.59	\$0	\$0	\$1,573	33.33	(\$475)	\$0	\$0	(\$565)	\$0
61	RT	7430	PG&E	Fresno	12-Jul-12	130- 409	Yes	INC	8	14:27	21:39	1692.75	\$11,664	\$583	(\$98,753)	581.19	(\$15,525)	\$307	\$0	(\$6,104)	\$0
62	RT	7430	PG&E	Fresno	13-Jul-12	5- 200	Yes	DEC	6	16:20	21:59	-783.78	\$0	\$0	\$14,414	0.00	\$0	\$0	\$0	\$0	\$0
63	RT	7430	PG&E	Fresno	13-Jul-12	175	Yes	INC	5	17:20	21:59	340.71	\$9,078	\$500	(\$5,364)	182.49	(\$2,880)	\$0	\$0	(\$1,752)	\$0
64	RT	7430	PG&E	Fresno	14-Jul-12	10- 190	Yes	DEC	6	16:50	21:59	-326.72	\$0	\$0	\$8,132	0.00	\$0	\$0	\$0	\$0	\$0
65	RT	7430	PG&E	Fresno	14-Jul-12	150	Yes	INC	5	17:05	21:59	142.64	\$4,539	\$500	(\$2,387)	66.30	(\$1,116)	\$0	\$0	(\$546)	\$0
66	RT	7430	PG&E	Fresno	16-Jul-12	25	Yes	DEC	1	20:30	20:48	-1.09	\$0	\$0	\$26	1.67	(\$33)	\$0	\$0	(\$3)	\$0
67	RT	7430	PG&E	Fresno	16-Jul-12	180	Yes	INC	6	17:35	22:59	283.16	\$7,449	\$0	(\$5,283)	114.88	(\$2,255)	\$0	\$0	(\$693)	\$0
68	RT	7430	PG&E	Fresno	17-Jul-12	3	No	DEC	15	6:35	20:59	-55.72	\$0	\$0	\$407	-43.72	\$0	\$1,030	\$0	(\$928)	\$0
69	RT	7430	PG&E	Fresno	18-Jul-12	2	No	DEC	20	1:10	20:59	-48.24	\$0	\$0	\$285	-28.99	\$0	\$763	\$0	(\$679)	\$0
70	RT	7430	PG&E	Fresno	18-Jul-12	48	No	INC	20	1:10	20:59	5.84	\$0	\$0	(\$142)	0.00	\$0	\$0	\$0	\$0	\$0
71	RT	7430	PG&E	Fresno	19-Jul-12	88	Yes	INC	2	22:14	23:54	132.95	\$0	\$0	(\$2,917)	138.18	(\$2,954)	\$0	\$0	(\$1,449)	\$0
72	RT	7430	PG&E	Fresno	20-Jul-12	83- 120	Yes	INC	4	20:40	23:59	405.51	\$10,158	\$2,333	(\$8,768)	94.31	(\$2,084)	\$0	\$0	(\$305)	\$0
73	RT	7430	PG&E	Fresno	21-Jul-12	7- 137	Yes	DEC	15	9:55	23:59	-53.71	\$0	\$0	\$2,395	0.00	\$0	\$0	\$0	\$0	\$0
74	RT	7430	PG&E	Fresno	21-Jul-12	83- 170	Yes	INC	15	9:25	23:59	1070.11	\$25,780	\$1,143	(\$44,876)	93.31	(\$2,499)	\$0	\$0	(\$3,001)	\$0
75	RT	7430	PG&E	Fresno	22-Jul-12	8- 47	Yes	DEC	4	11:49	14:59	3.03	\$0	\$0	(\$95)	0.00	\$0	\$0	\$0	\$0	\$0

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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
76	RT	7430	PG&E	Fresno	22-Jul-12	10- 83	Yes	INC	13	11:49	23:59	267.79	\$8,126	\$0	(\$4,092)	23.16	(\$643)	\$0	\$0	(\$508)	\$0
77	RT	7430	PG&E	Fresno	23-Jul-12	140- 215	Yes	DEC	1	21:35	21:59	-109.14	\$0	\$0	\$1,896	0.00	\$0	\$0	\$0	\$0	\$0
78	RT	7430	PG&E	Fresno	23-Jul-12	83- 175	Yes	INC	24	0:00	23:39	558.24	\$24,601	\$0	(\$10,903)	85.72	(\$1,650)	\$0	\$0	(\$537)	\$0
79	RT	7430	PG&E	Fresno	24-Jul-12	83- 175	Yes	INC	4	20:00	23:14	944.09	\$18,961	\$0	(\$19,234)	265.78	(\$5,467)	\$0	\$0	(\$1,250)	\$0
80	RT	7430	PG&E	Fresno	25-Jul-12	5- 35	Yes	DEC	17	7:35	23:59	-112.28	\$0	\$0	\$2,528	-116.59	\$0	\$2,609	\$0	(\$2,367)	\$0
81	RT	7430	PG&E	Fresno	25-Jul-12	100- 175	Yes	INC	3	20:45	22:59	433.89	\$15,916	\$1,583	(\$8,399)	167.55	(\$3,416)	\$0	\$0	(\$861)	\$0
82	RT	7430	PG&E	Fresno	26-Jul-12	30- 55	Yes	DEC	4	16:15	19:59	-65.01	\$0	\$0	\$1,444	4.45	(\$102)	\$0	\$0	(\$12)	\$0
83	RT	7430	PG&E	Fresno	26-Jul-12	9- 200	Yes	INC	13	10:50	22:59	1089.21	\$23,024	\$0	(\$24,975)	589.78	(\$13,610)	\$0	\$0	(\$5,539)	\$0
84	RT	7430	PG&E	Fresno	27-Jul-12	85- 175	Yes	INC	4	19:14	22:29	1003.85	\$29,518	\$1,727	(\$22,224)	421.42	(\$9,271)	\$0	\$0	(\$1,429)	\$0
85	RT	7430	PG&E	Fresno	28-Jul-12	2	No	DEC	15	7:45	21:59	-38.00	\$0	\$0	\$711	-28.33	\$0	\$668	\$0	(\$541)	\$0
86	RT	7430	PG&E	Fresno	29-Jul-12	2- 12	No	DEC	17	7:25	23:59	-80.78	\$0	\$0	\$2,737	-75.67	\$0	\$2,592	\$0	(\$2,315)	\$0
87	RT	7430	PG&E	Fresno	30-Jul-12	4- 14	No	DEC	15	0:00	14:59	-132.34	\$0	\$0	\$2,407	-103.80	\$0	\$2,283	\$0	(\$2,206)	\$0
88	RT	7430	PG&E	Fresno	31-Jul-12	109- 128	Yes	INC	4	20:27	23:59	601.99	\$11,560	\$1,000	(\$16,441)	156.65	(\$4,223)	\$0	\$0	##### #	\$0
89	RT	7430	PG&E	Sierra	15-Jul-12	1- 27	Yes	DEC	7	16:25	22:59	-25.39	\$0	\$0	\$577	0.00	\$0	\$0	\$0	\$0	\$0
90	RT	7430	PG&E	Sierra	15-Jul-12	45	Yes	INC	7	16:25	22:59	17.05	\$1,110	\$0	(\$209)	2.05	(\$42)	\$0	\$0	(\$16)	\$0
91	RT	7430	SCE	Big Creek-Ventura	23-Jul-12	106	No	DEC	1	11:10	11:59	-77.16	\$0	\$0	\$1,716	0.00	\$0	\$0	\$0	\$0	\$0
92	RT	7630	SCE	LA Basin	16-Jul-12	97- 161	Yes	DEC	6	14:00	19:59	-562.94	\$0	\$0	\$10,547	0.00	\$0	\$0	\$0	\$0	\$0
93	RT	7630	SCE	LA Basin	16-Jul-12	0	Yes	INC	6	14:00	19:59	-4.16	\$0	\$0	\$82	0.00	\$0	\$0	\$0	\$0	\$0
94	RT	7630	SCE	LA Basin	20-Jul-12	0	Yes	DEC	11	8:45	18:59	3.52	\$0	\$0	(\$90)	0.00	\$0	\$0	\$0	\$0	\$0
95	RT	7630	SCE	LA Basin	20-Jul-12	47	Yes	INC	11	8:45	18:59	56.67	\$1,793	\$0	(\$1,712)	0.00	\$0	\$0	\$0	\$0	\$0
96	RT	7720	SCE	N/A	19-Jul-12	1- 73	No	DEC	7	13:45	19:59	-443.54	\$0	\$0	\$75,669	-298.38	\$0	#####	\$0	##### #	\$0
97	RT	7720	SCE	N/A	19-Jul-12	65	No	INC	2	13:45	14:59	19.75	\$0	\$0	(\$509)	0.00	\$0	\$0	\$0	\$0	\$0
98	RT	8710	SDG&E	N/A	17-Jul-12	50	Yes	INC	2	10:55	11:59	37.15	\$0	\$0	(\$4,793)	14.79	(\$442)	\$0	(\$29)	\$0	\$0
99	RT	8710	SDG&E	San Diego	3-Jul-12	150	No	INC	3	12:11	14:59	609.57	\$17,680	\$0	(\$75,060)	205.39	(\$11,481)	\$0	\$0	\$0	\$0
100	RT	8710	SDG&E	San Diego	14-Jul-12	20	No	INC	24	0:00	23:59	1042.46	\$64,376	\$0	(\$131,962)	0.00	\$0	\$0	\$0	\$0	\$0
101	RT	8710	SDG&E	San Diego	15-Jul-12	40- 88	No	INC	24	0:00	23:59	1958.47	\$142,521	\$0	(\$44,372	0.00	\$0	\$0	\$0	\$0	\$0

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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
)						
102	RT	8710	SDG&E	San Diego	16-Jul-12	40	No	INC	24	0:00	23:59	1775.19	\$143,592	\$0	(\$36,708)	0.69	(\$24)	\$0	\$0	\$0	\$0
103	RT	8710	SDG&E	San Diego	17-Jul-12	51	No	INC	7	15:45	21:59	413.18	\$18,085	\$508	(\$17,682)	26.80	(\$673)	\$0	(\$265)	\$0	\$0
104	RT	8710	SDG&E	San Diego	18-Jul-12	143	Yes	INC	1	22:10	22:59	93.61	\$1,973	\$0	(\$3,101)	17.18	(\$545)	\$0	(\$19)	\$0	\$0
105	RT	8710	SDG&E	San Diego	19-Jul-12	20	No	INC	17	7:00	23:59	2438.25	\$21,151	\$8,485	(\$442,222)	20.12	(\$13,364)	\$0	\$0	\$0	\$0
106	RT	Bridging Schedules	PG&E	N/A	31-Jul-12	52	No	INC	4	20:00	23:59	740.33	\$19,836	\$0	(\$20,783)	0.00	\$0	\$0	\$0	\$0	\$0
107	RT	Bridging Schedules	SCE	LA Basin	11-Jul-12	50	Yes	INC	4	20:00	23:59	257.49	\$23,728	\$0	(\$5,744)	0.00	\$0	\$0	\$0	\$0	\$0
108	RT	Bridging Schedules	SCE	LA Basin	12-Jul-12	50	Yes	INC	4	0:00	3:59	197.92	\$23,728	\$0	(\$4,563)	0.00	\$0	\$0	\$0	\$0	\$0
109	RT	Bridging Schedules	SDG&E	San Diego	14-Jul-12	20	No	INC	7	17:00	23:59	176.00	\$0	\$0	(\$4,908)	0.00	\$0	\$0	\$0	\$0	\$0
110	RT	Bridging Schedules	SDG&E	San Diego	21-Jul-12	20- 40	No	INC	2	22:00	23:59	60.86	\$0	\$0	(\$1,521)	0.00	\$0	\$0	\$0	\$0	\$0
111	RT	COI mitigation	Intertie	N/A	19-Jul-12	100	No	DEC	1	0:10	0:59	-82.29	\$0	\$0	(\$402)	-82.29	\$0	(\$402)	\$0	\$0	\$0
112	RT	Contingency	Intertie	N/A	24-Jul-12	203	No	INC	1	0:04	0:24	96.53	\$0	\$0	(\$1,220)	63.90	(\$961)	\$0	(\$1,049)	\$0	\$0
113	RT	Contingency	PG&E	Fresno	24-Jul-12	148	No	INC	1	0:07	0:16	8.30	\$0	\$0	(\$490)	10.78	(\$186)	\$0	(\$384)	\$0	\$0
114	RT	Contingency	PG&E	Humboldt	5-Jul-12	15	No	INC	2	17:18	18:09	-19.81	\$0	\$0	\$257	-14.56	\$0	\$188	\$0	(\$181)	\$0
115	RT	Contingency	PG&E	N/A	24-Jul-12	485	No	INC	1	0:10	0:29	124.81	\$2,618	\$0	(\$2,491)	32.81	(\$657)	\$0	(\$285)	\$0	\$0
116	RT	Contingency	PG&E	Sierra	24-Jul-12	199	No	INC	1	0:09	0:16	22.21	\$0	\$0	(\$441)	5.95	(\$119)	\$0	(\$107)	\$0	\$0
117	RT	Contingency	SCE	Big Creek-Ventura	24-Jul-12	55	No	DEC	1	0:08	0:19	0.00	\$0	\$0	(\$0)	0.00	\$0	\$0	\$0	\$0	\$0
118	RT	Contingency	SCE	N/A	4-Jul-12	96	No	INC	1	0:20	0:34	31.93	\$0	\$0	(\$868)	0.00	\$0	\$0	\$0	\$0	\$0
119	RT	Contingency	SDG&E	San Diego	23-Jul-12	40- 142	No	DEC	3	13:10	15:59	-215.16	\$0	\$0	\$4,360	-147.94	\$0	\$3,012	\$0	(\$500)	\$0
120	RT	Contingency	SDG&E	San Diego	23-Jul-12	200	No	INC	1	13:10	13:59	-40.81	\$0	\$0	\$850	-40.81	\$0	\$850	\$0	(\$239)	\$0
121	RT	Contingency	SDG&E	San Diego	24-Jul-12	500	No	INC	1	0:06	0:18	143.83	\$2,620	\$0	(\$1,434)	49.85	(\$587)	\$0	(\$514)	\$0	\$0
122	RT	Fire	SCE	LA Basin	7-Jul-12	97- 161	No	DEC	5	15:45	19:59	-549.79	\$0	\$0	\$27,421	0.00	\$0	\$0	\$0	\$0	\$0
123	RT	Fire	SCE	LA Basin	7-Jul-12	215	No	INC	5	15:35	19:59	681.74	\$0	\$0	(\$27,132)	666.71	(\$26,371)	\$0	#####	\$0	\$0
124	RT	Generation Outage	SCE	LA Basin	13-Jul-12	88- 320	No	DEC	13	11:00	23:59	-1957.71	\$0	\$0	\$42,341	-453.12	\$0	#####	\$0	\$0	\$0
125	RT	Generation Outage	SCE	LA Basin	13-Jul-12	0	No	INC	13	11:00	23:59	-3.65	\$0	\$0	\$70	0.00	\$0	\$0	\$0	\$0	\$0
126	RT	Intertie Emergency Assistance	Intertie	N/A	5-Jul-12	50	Yes	INC	1	12:25	12:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
127	RT	Intertie Emergency Assistance	Intertie	N/A	29-Jul-12	90	No	INC	1	13:20	13:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
128	RT	Load Forecast Uncertainty	SCE	LA Basin	9-Jul-12	20- 70	Yes	INC	22	2:00	23:59	3349.79	\$129,837	\$0	(\$281,929)	2063.02	(\$74,772)	\$0	\$0	\$0	\$0

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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
129	RT	Load Forecast Uncertainty	SCE	LA Basin	10-Jul-12	96	No	DEC	1	0:00	0:59	-158.75	\$0	\$0	\$2,437	0.00	\$0	\$0	\$0	\$0	\$0
130	RT	Load Forecast Uncertainty	SCE	LA Basin	10-Jul-12	70- 80	Yes	INC	24	0:00	23:59	3561.83	\$231,946	\$0	(\$120,249)	769.68	(\$32,520)	\$0	\$0	\$0	\$0
131	RT	Load Forecast Uncertainty	SCE	LA Basin	12-Jul-12	10- 30	Yes	INC	24	0:00	23:59	689.95	\$121,078	\$0	(\$25,412)	0.00	\$0	\$0	\$0	\$0	\$0
132	RT	Market Disruption	Intertie	N/A	3-Jul-12	137	Yes	INC	1	3:00	3:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
133	RT	Market Disruption	Intertie	N/A	5-Jul-12	100	No	DEC	1	1:00	1:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
134	RT	Market Disruption	Intertie	N/A	5-Jul-12	100	Yes	INC	1	1:00	1:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
135	RT	Market Disruption	Intertie	N/A	19-Jul-12	100	No	INC	1	3:00	3:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
136	RT	Over Generation	PG&E	Bay Area	3-Jul-12	579	No	INC	7	2:41	8:14	-801.29	\$0	\$0	\$13,649	-134.75	\$0	(\$885)	\$0	\$0	\$0
137	RT	Over Generation	PG&E	Fresno	12-Jul-12	167	No	DEC	1	21:02	21:08	-3.43	\$0	\$0	(\$354)	-10.57	\$0	\$307	\$0	\$0	\$0
138	RT	Over Generation	PG&E	Fresno	12-Jul-12	83	Yes	INC	1	21:02	21:08	15.91	\$757	\$83	(\$1,472)	0.00	\$0	\$0	\$0	\$0	\$0
139	RT	Path 15	SCE	Big Creek-Ventura	23-Jul-12	16	No	DEC	1	13:15	13:59	38.53	\$0	\$0	(\$814)	22.67	(\$479)	\$0	\$0	(\$83)	\$0
140	RT	Path 26	SCE	LA Basin	13-Jul-12	25	No	INC	13	6:00	18:59	323.96	\$0	\$0	(\$6,968)	0.00	\$0	\$0	\$0	\$0	\$0
141	RT	Path 66	Intertie	N/A	24-Jul-12	19- 200	No	DEC	3	0:06	2:05	-319.55	\$0	\$0	(\$1,543)	-299.87	\$0	#####	\$0	\$0	\$0
142	RT	Pumped-Storage	PG&E	Fresno	1-Jul-12	305	No	DEC	1	8:00	8:14	-63.54	\$0	\$0	\$478	0.00	\$0	\$0	\$0	\$0	\$0
143	RT	Ramp Rate	SCE	Big Creek-Ventura	11-Jul-12	400	Yes	INC	9	11:15	19:59	3413.56	\$54,870	\$0	(\$136,060)	2835.96	(\$117,748)	\$0	\$0	\$0	\$0
144	RT	Ramp Rate	SCE	LA Basin	9-Jul-12	17- 249	Yes	DEC	10	11:00	20:59	-196.91	\$0	\$0	\$5,561	0.00	\$0	\$0	\$0	\$0	\$0
145	RT	Ramp Rate	SCE	LA Basin	9-Jul-12	71	Yes	INC	10	11:00	20:59	474.40	\$20,513	\$0	(\$18,709)	307.76	(\$14,170)	\$0	\$0	\$0	\$0
146	RT	Ramp Rate	SCE	LA Basin	10-Jul-12	142	Yes	INC	9	11:00	19:59	1409.09	\$53,389	\$0	(\$55,021)	758.18	(\$32,049)	\$0	\$0	\$0	\$0
147	RT	Ramp Rate	SDG&E	San Diego	2-Jul-12	63	No	INC	14	10:22	23:59	1070.88	\$62,627	\$6,970	(\$108,752)	21.62	(\$742)	\$0	\$0	\$0	\$0
148	RT	Ramp Rate	SDG&E	San Diego	3-Jul-12	63	No	INC	17	5:25	21:59	953.38	\$56,426	\$0	(\$76,622)	34.26	(\$1,328)	\$0	\$0	\$0	\$0
149	RT	Ramp Rate	SDG&E	San Diego	4-Jul-12	63	No	INC	11	10:10	20:59	681.55	\$46,684	\$0	(\$15,523)	0.01	(\$0)	\$0	\$0	\$0	\$0
150	RT	Ramp Rate	SDG&E	San Diego	5-Jul-12	63	No	INC	10	11:15	20:59	641.43	\$43,672	\$0	(\$41,904)	0.01	(\$0)	\$0	\$0	\$0	\$0
151	RT	Ramp Rate	SDG&E	San Diego	9-Jul-12	68	No	INC	13	11:55	23:59	139.01	\$802	\$0	(\$3,095)	0.24	(\$8)	\$0	\$0	\$0	\$0
152	RT	Ramp Rate	SDG&E	San Diego	10-Jul-12	68- 131	No	INC	22	0:00	21:59	-1100.79	\$0	\$0	\$132,163	0.52	(\$17)	\$0	\$0	\$0	\$0
153	RT	Ramp Rate	SDG&E	San Diego	12-Jul-12	131	No	INC	13	7:15	19:59	-3363.36	\$14,474	\$0	\$62,623	0.11	(\$4)	\$0	\$0	\$0	\$0
154	RT	Ramp Rate	SDG&E	San Diego	14-Jul-12	131	No	INC	4	18:15	21:59	503.13	\$16,268	\$0	(\$10,388)	0.01	(\$0)	\$0	\$0	\$0	\$0

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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
155	RT	Ramp Rate	SDG&E	San Diego	15-Jul-12	63	No	INC	5	18:40	22:59	273.00	\$19,792	\$0	(\$5,594)	0.00	\$0	\$0	\$0	\$0	\$0
156	RT	Reverse Commitment Instruction	SDG&E	San Diego	9-Jul-12	0	Yes	INC	3	9:47	11:30	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
157	RT	Risk Predictor	SCE	Big Creek-Ventura	11-Jul-12	50	Yes	INC	14	10:00	23:59	4263.26	\$86,964	\$0	(\$160,459)	2835.96	(\$117,748)	\$0	\$0	\$0	\$0
158	RT	Risk Predictor	SCE	LA Basin	11-Jul-12	20- 45	Yes	INC	24	0:00	23:59	2846.92	\$134,274	\$0	(\$300,486)	1722.57	(\$70,879)	\$0	\$0	\$0	\$0
159	RT	SCE SOB 204	SCE	Big Creek-Ventura	3-Jul-12	56- 146	No	DEC	3	19:20	21:59	-220.12	\$0	\$0	\$4,526	0.00	\$0	\$0	\$0	\$0	\$0
160	RT	SCE SOB 204	SCE	Big Creek-Ventura	9-Jul-12	100	No	DEC	4	19:30	22:59	-46.23	\$0	\$0	\$910	0.00	\$0	\$0	\$0	\$0	\$0
161	RT	SCE SOB 204	SCE	Big Creek-Ventura	9-Jul-12	0	No	INC	3	19:45	21:59	-17.38	\$0	\$0	\$289	0.00	\$0	\$0	\$0	\$0	\$0
162	RT	SCE SOB 204	SCE	Big Creek-Ventura	10-Jul-12	50- 125	No	DEC	3	16:15	18:59	-124.15	\$0	\$0	\$3,742	65.83	(\$1,957)	\$0	\$0	\$0	\$0
163	RT	SCE SOB 204	SCE	Big Creek-Ventura	10-Jul-12	10- 200	No	INC	7	15:20	21:59	656.12	\$0	\$0	(\$17,197)	632.82	(\$16,694)	\$0	\$0	(\$601)	\$0
164	RT	SCE SOB 204	SCE	Big Creek-Ventura	11-Jul-12	20- 120	No	DEC	11	11:00	21:59	-174.32	\$0	\$0	\$4,580	82.92	(\$1,738)	\$0	\$0	(\$381)	\$0
165	RT	SCE SOB 204	SCE	Big Creek-Ventura	11-Jul-12	5- 250	No	INC	11	13:05	23:59	627.52	\$0	\$0	(\$12,462)	616.22	(\$12,221)	\$0	\$0	(\$3,584)	\$0
166	RT	SCE SOB 204	SCE	Big Creek-Ventura	12-Jul-12	70- 150	No	DEC	11	10:45	20:39	-841.59	\$0	\$0	\$13,536	0.00	\$0	\$0	\$0	\$0	\$0
167	RT	SCE SOB 204	SCE	Big Creek-Ventura	12-Jul-12	250	No	INC	23	0:20	22:59	698.38	\$0	\$0	(\$14,321)	685.16	(\$13,283)	\$0	\$0	(\$3,585)	\$0
168	RT	SCE SOB 204	SCE	Big Creek-Ventura	13-Jul-12	30- 230	No	INC	21	1:05	21:59	2158.82	\$0	\$0	(\$89,891)	1426.24	(\$37,325)	\$0	\$0	##### #	\$0
169	RT	SCE SOB 204	SCE	Big Creek-Ventura	19-Jul-12	22- 97	No	DEC	2	22:30	23:29	1.22	\$0	\$0	\$7	0.29	(\$5)	\$0	\$0	\$0	\$0
170	RT	SCE SOB 204	SCE	Big Creek-Ventura	19-Jul-12	23- 103	No	INC	7	17:40	23:29	275.67	\$0	\$0	(\$7,057)	417.22	(\$10,853)	\$0	\$0	(\$163)	\$0
171	RT	SCE SOB 204	SCE	Big Creek-Ventura	21-Jul-12	99- 248	No	INC	9	15:30	23:59	1655.96	\$0	\$0	(\$109,420)	1374.56	(\$54,595)	\$0	\$0	(\$1,214)	\$0
172	RT	SCE SOB 204	SCE	Big Creek-Ventura	22-Jul-12	17- 174	No	INC	10	14:50	23:59	869.22	\$0	\$0	(\$19,639)	1160.05	(\$26,373)	\$0	\$0	(\$3,505)	\$0
173	RT	SCE SOB 204	SCE	Big Creek-Ventura	23-Jul-12	26- 205	No	DEC	11	12:00	22:59	71.04	\$0	\$0	(\$1,331)	85.24	(\$1,715)	\$0	\$0	(\$437)	\$0
174	RT	SCE SOB 204	SCE	Big Creek-Ventura	23-Jul-12	23- 184	No	INC	21	0:00	20:59	1571.85	\$0	\$0	(\$29,083)	1347.90	(\$24,779)	\$0	\$0	(\$9,250)	\$0
175	RT	SCE SOB 204	SCE	Big Creek-Ventura	24-Jul-12	85- 135	No	DEC	4	16:10	19:59	-298.30	\$0	\$0	\$6,369	83.34	(\$1,629)	\$0	\$0	(\$490)	\$0

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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
176	RT	SCE SOB 204	SCE	Big Creek-Ventura	24-Jul-12	26- 226	No	INC	4	19:15	22:59	669.17	\$0	\$0	(\$12,045)	581.61	(\$10,477)	\$0	\$0	(\$4,396)	\$0
177	RT	SCE SOB 204	SCE	Big Creek-Ventura	25-Jul-12	60	No	DEC	2	22:25	23:29	27.60	\$0	\$0	(\$595)	8.75	(\$140)	\$0	\$0	(\$3)	\$0
178	RT	SCE SOB 204	SCE	Big Creek-Ventura	25-Jul-12	15- 65	No	INC	3	20:15	22:59	360.12	\$0	\$0	(\$7,559)	187.52	(\$3,848)	\$0	\$0	(\$727)	\$0
179	RT	SCE SOB 204	SCE	Big Creek-Ventura	26-Jul-12	35	No	DEC	1	20:20	20:59	156.89	\$0	\$0	(\$3,628)	14.70	(\$340)	\$0	\$0	(\$56)	\$0
180	RT	SCE SOB 204	SCE	Big Creek-Ventura	26-Jul-12	15- 265	No	INC	3	18:55	20:59	703.85	\$0	\$0	(\$15,712)	465.28	(\$10,349)	\$0	\$0	(\$2,114)	\$0
181	RT	SCE SOB 204	SCE	Big Creek-Ventura	31-Jul-12	89	No	INC	9	15:55	23:59	1194.95	\$0	\$0	(\$32,605)	634.20	(\$16,949)	\$0	\$0	(\$917)	\$0
182	RT	SP26 Capacity	SCE	LA Basin	14-Jul-12	0	No	INC	22	2:00	23:59	56.42	\$0	\$0	(\$8,382)	0.21	(\$7)	\$0	(\$30)	\$0	\$0
183	RT	SP26 Capacity	SCE	LA Basin	20-Jul-12	20	Yes	INC	22	2:00	23:59	2747.56	\$64,064	\$0	(\$362,770)	2055.84	(\$112,294)	\$0	\$0	\$0	\$0
184	RT	SP26 Capacity	SCE	LA Basin	23-Jul-12	20	Yes	INC	22	2:00	23:59	921.55	\$64,064	\$0	(\$20,189)	0.00	\$0	\$0	\$0	\$0	\$0
185	RT	Software Limitation	PG&E	Fresno	2-Jul-12	0	Yes	INC	18	6:00	23:59	48.42	\$2,270	\$375	(\$374)	0.00	\$0	\$0	\$0	\$0	\$0
186	RT	Software Limitation	PG&E	Fresno	3-Jul-12	0	No	INC	1	0:00	0:04	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
187	RT	Software Limitation	PG&E	Fresno	7-Jul-12	0	Yes	INC	2	22:35	23:34	41.50	\$2,270	\$0	(\$719)	0.00	\$0	\$0	\$0	\$0	\$0
188	RT	Software Limitation	PG&E	Fresno	11-Jul-12	299	No	DEC	1	0:30	0:44	-99.67	\$0	\$0	\$2,396	0.00	\$0	\$0	\$0	\$0	\$0
189	RT	Software Limitation	PG&E	Fresno	11-Jul-12	0	No	INC	1	0:06	0:29	-24.92	\$0	\$0	\$733	0.00	\$0	\$0	\$0	\$0	\$0
190	RT	Software Limitation	PG&E	Fresno	13-Jul-12	0	No	INC	2	22:50	23:49	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
191	RT	Software Limitation	PG&E	Fresno	17-Jul-12	0	No	INC	2	10:30	11:29	0.00	\$0	\$0	(\$0)	0.00	\$0	\$0	\$0	\$0	\$0
192	RT	Software Limitation	PG&E	Fresno	19-Jul-12	0	Yes	INC	2	22:00	23:09	0.00	\$0	\$0	(\$0)	0.00	\$0	\$0	\$0	\$0	\$0
193	RT	Software Limitation	PG&E	Fresno	25-Jul-12	64	No	INC	1	15:43	15:54	21.33	\$975	\$0	(\$753)	5.33	(\$228)	\$0	\$0	\$0	\$0
194	RT	Software Limitation	PG&E	N/A	11-Jul-12	167	No	DEC	2	6:30	7:59	-39.06	\$0	\$0	\$716	0.00	\$0	\$0	\$0	\$0	\$0
195	RT	Software Limitation	PG&E	N/A	11-Jul-12	185	No	INC	7	1:25	7:59	347.68	\$1,484	\$0	(\$5,907)	0.00	\$0	\$0	\$0	\$0	\$0
196	RT	Software Limitation	PG&E	N/A	12-Jul-12	310	Yes	INC	6	0:27	5:59	478.18	\$4,032	\$0	(\$10,380)	0.00	\$0	\$0	\$0	\$0	\$0
197	RT	Software Limitation	PG&E	N/A	20-Jul-12	16	No	DEC	3	3:00	5:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
198	RT	Software Limitation	PG&E	N/A	23-Jul-12	200	No	INC	10	1:35	10:59	1116.76	\$26,117	\$0	(\$23,780)	82.41	(\$2,538)	\$0	\$0	\$0	\$0
199	RT	Software Limitation	PG&E	N/A	30-Jul-12	52- 190	No	INC	13	0:15	12:59	1377.44	\$42,163	##### #	(\$26,207)	0.00	\$0	\$0	\$0	\$0	\$0
200	RT	Software Limitation	SCE	Big Creek-Ventura	2-Jul-12	0	Yes	INC	2	20:50	21:19	4.25	\$289	\$42	(\$75)	0.00	\$0	\$0	\$0	\$0	\$0
201	RT	Software Limitation	SCE	Big Creek-Ventura	12-Jul-12	0	Yes	INC	5	0:27	4:59	5.83	\$1,130	\$0	(\$183)	0.00	\$0	\$0	\$0	\$0	\$0

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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
202	RT	Software Limitation	SCE	Big Creek-Ventura	13-Jul-12	140	Yes	DEC	6	0:45	5:44	-24.12	\$0	\$0	(\$221)	-29.17	\$0	\$0	\$0	\$0	\$0
203	RT	Software Limitation	SCE	Big Creek-Ventura	13-Jul-12	0	Yes	INC	11	0:45	10:39	86.13	\$4,497	\$0	(\$2,293)	0.00	\$0	\$0	\$0	\$0	\$0
204	RT	Software Limitation	SCE	Big Creek-Ventura	14-Jul-12	230	Yes	DEC	6	0:20	5:19	-21.30	\$0	\$0	\$220	-21.30	\$0	\$220	\$0	\$0	\$0
205	RT	Software Limitation	SCE	Big Creek-Ventura	14-Jul-12	0	Yes	INC	18	0:20	17:59	52.76	\$289	\$22	(\$1,182)	0.00	\$0	\$0	\$0	\$0	\$0
206	RT	Software Limitation	SCE	LA Basin	6-Jul-12	0	Yes	INC	2	18:45	19:44	1.58	\$0	\$0	(\$37)	0.00	\$0	\$0	\$0	\$0	\$0
207	RT	Software Limitation	SCE	LA Basin	7-Jul-12	0	Yes	INC	2	21:15	22:14	11.64	\$0	\$0	(\$304)	0.00	\$0	\$0	\$0	\$0	\$0
208	RT	Software Limitation	SCE	LA Basin	12-Jul-12	0	Yes	INC	2	19:30	20:29	1.58	\$0	\$0	(\$36)	0.00	\$0	\$0	\$0	\$0	\$0
209	RT	Software Limitation	SCE	LA Basin	14-Jul-12	91	No	DEC	2	0:00	1:59	-178.21	\$0	\$0	\$0	-178.21	\$0	\$0	\$0	\$0	\$0
210	RT	Software Limitation	SCE	LA Basin	14-Jul-12	0	Yes	INC	2	17:45	18:44	3.91	\$0	\$24	(\$93)	0.00	\$0	\$0	\$0	\$0	\$0
211	RT	Software Limitation	SCE	LA Basin	16-Jul-12	0	Yes	INC	2	12:45	13:44	3.91	\$0	\$26	(\$69)	0.00	\$0	\$0	\$0	\$0	\$0
212	RT	Software Limitation	SCE	LA Basin	18-Jul-12	0	Yes	INC	1	10:25	10:54	1.28	\$0	\$5	(\$28)	0.00	\$0	\$0	\$0	\$0	\$0
213	RT	Software Limitation	SCE	LA Basin	19-Jul-12	0	Yes	INC	9	12:30	20:39	8.19	\$0	\$0	(\$224)	0.00	\$0	\$0	\$0	\$0	\$0
214	RT	Software Limitation	SCE	LA Basin	21-Jul-12	0	Yes	INC	2	21:45	22:44	3.83	\$0	\$0	(\$80)	0.00	\$0	\$0	\$0	\$0	\$0
215	RT	Software Limitation	SCE	LA Basin	23-Jul-12	0	Yes	INC	2	16:45	17:44	1.58	\$0	\$0	(\$31)	0.00	\$0	\$0	\$0	\$0	\$0
216	RT	Software Limitation	SCE	LA Basin	25-Jul-12	0	Yes	INC	2	18:45	19:44	1.58	\$0	\$0	(\$38)	0.00	\$0	\$0	\$0	\$0	\$0
217	RT	Software Limitation	SCE	LA Basin	26-Jul-12	0	Yes	INC	2	18:55	19:54	1.58	\$0	\$0	(\$39)	0.00	\$0	\$0	\$0	\$0	\$0
218	RT	Software Limitation	SCE	LA Basin	29-Jul-12	0	Yes	INC	4	18:38	21:19	57.65	\$776	\$0	(\$1,801)	0.00	\$0	\$0	\$0	\$0	\$0
219	RT	Software Limitation	SCE	LA Basin	31-Jul-12	0	Yes	INC	2	21:15	22:14	3.83	\$0	\$0	(\$91)	0.00	\$0	\$0	\$0	\$0	\$0
220	RT	Software Limitation	SCE	N/A	12-Jul-12	0	Yes	INC	3	21:40	23:59	6.33	\$208	\$0	(\$106)	0.00	\$0	\$0	\$0	\$0	\$0
221	RT	Software Limitation	SCE	N/A	13-Jul-12	0	No	INC	5	0:00	4:59	-0.79	\$0	\$0	\$24	0.00	\$0	\$0	\$0	\$0	\$0
222	RT	Software Limitation	SDG&E	San Diego	11-Jul-12	335	No	INC	1	23:40	23:58	-44.31	\$0	\$0	\$252	-32.08	\$0	\$0	\$0	\$0	\$0
223	RT	Software Limitation	SDG&E	San Diego	12-Jul-12	335	No	INC	1	0:00	0:52	-5.66	\$0	\$0	\$166	0.00	\$0	\$0	\$0	\$0	\$0
224	RT	Software Limitation	SDG&E	San Diego	20-Jul-12	0	No	INC	13	10:10	22:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
225	RT	Software Limitation	SDG&E	San Diego	28-Jul-12	200	No	INC	2	0:46	1:59	91.12	\$894	\$0	(\$1,164)	0.00	\$0	\$0	\$0	\$0	\$0
226	RT	Stranded A/S or RUC	Intertie	N/A	2-Jul-12	145	No	DEC	2	7:59	8:33	-13.44	\$0	\$0	\$260	0.00	\$0	\$0	\$0	\$0	\$0
227	RT	Stranded A/S or RUC	Intertie	N/A	2-Jul-12	0	No	INC	2	7:59	8:59	-25.43	\$0	\$0	\$492	0.00	\$0	\$0	\$0	\$0	\$0
228	RT	Stranded A/S or RUC	PG&E	Sierra	13-Jul-12	13- 26	Yes	DEC	15	7:00	21:59	-115.47	\$0	\$0	\$5,542	-16.88	\$0	\$3,813	\$0	(\$3,219)	\$0
229	RT	Stranded A/S or RUC	PG&E	Sierra	13-Jul-12	20	Yes	INC	15	7:00	21:59	211.22	\$8,880	\$0	(\$38,989)	0.00	\$0	\$0	\$0	\$0	\$0
230	RT	System Energy	Intertie	N/A	7-Jul-12	180	Yes	INC	1	16:00	16:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
231	RT	System Energy	Intertie	N/A	10-Jul-12	75	Yes	INC	1	18:00	18:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
232	RT	System Energy	Intertie	N/A	11-Jul-12	10- 57	Yes	INC	10	14:00	23:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
233	RT	System Energy	Intertie	N/A	12-Jul-12	10- 300	Yes	INC	21	0:00	20:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0

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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
234	RT	System Energy	Intertie	N/A	22-Jul-12	225	Yes	INC	1	3:00	3:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
235	RT	Thermal Margin	PG&E	N/A	1-Jul-12	141	No	INC	13	11:00	23:59	1836.24	\$0	\$0	(\$27,987)	0.00	\$0	\$0	\$0	\$0	\$0
236	RT	Thermal Margin	PG&E	N/A	2-Jul-12	180	Yes	INC	11	13:00	23:59	2172.93	\$114,897	\$0	(\$29,837)	0.00	\$0	\$0	\$0	\$0	\$0
237	RT	Thermal Margin	PG&E	N/A	3-Jul-12	180	Yes	INC	24	0:00	23:59	4712.75	\$243,312	\$0	(\$85,713)	0.08	(\$1)	\$0	(\$1)	\$0	\$0
238	RT	Thermal Margin	SCE	LA Basin	1-Jul-12	160	No	INC	24	0:00	23:59	5612.71	\$129,340	\$0	(\$67,096)	0.00	\$0	\$0	\$0	\$0	\$0
239	RT	Thermal Margin	SCE	LA Basin	2-Jul-12	20	Yes	INC	17	7:00	23:59	418.04	\$34,271	\$0	(\$66,917)	0.00	\$0	\$0	\$0	\$0	\$0
240	RT	Thermal Margin	SCE	LA Basin	3-Jul-12	20	Yes	INC	24	0:00	23:59	863.16	\$48,383	\$0	(\$23,671)	0.19	(\$4)	\$0	(\$2)	\$0	\$0
241	RT	Thermal Margin	SCE	LA Basin	4-Jul-12	20	Yes	INC	24	0:00	23:59	508.08	\$50,399	\$0	(\$11,615)	0.24	(\$5)	\$0	(\$3)	\$0	\$0
242	RT	Thermal Margin	SCE	LA Basin	5-Jul-12	20	Yes	INC	24	0:00	23:59	188.79	\$19,349	\$0	(\$21,491)	0.08	(\$3)	\$0	(\$1)	\$0	\$0
243	RT	Thermal Margin	SCE	LA Basin	9-Jul-12	63	Yes	DEC	5	19:00	23:59	-3.54	\$0	\$0	\$78	0.00	\$0	\$0	\$0	\$0	\$0
244	RT	Thermal Margin	SCE	LA Basin	9-Jul-12	25	Yes	INC	5	19:00	23:59	153.94	\$11,518	\$0	(\$4,368)	45.24	(\$1,949)	\$0	\$0	\$0	\$0
245	RT	Thermal Margin	SDG&E	San Diego	2-Jul-12	20	No	INC	15	9:00	23:59	1012.87	\$58,880	##### #	(\$108,009)	21.61	(\$742)	\$0	\$0	\$0	\$0
246	RT	Thermal Margin	SDG&E	San Diego	3-Jul-12	20	No	INC	23	1:00	23:59	1395.25	\$78,255	\$0	(\$116,208)	133.45	(\$8,723)	\$0	(\$1)	\$0	\$0
247	RT	Thermal Margin	SDG&E	San Diego	4-Jul-12	20	No	INC	24	0:00	23:59	1230.58	\$88,296	\$0	(\$27,330)	0.08	(\$2)	\$0	(\$1)	\$0	\$0
248	RT	Thermal Margin	SDG&E	San Diego	5-Jul-12	20	No	INC	24	0:00	23:59	965.12	\$74,283	\$0	(\$46,379)	0.14	(\$2)	\$0	(\$3)	\$0	\$0
249	RT	Transmission Outage Other	PG&E	Humboldt	17-Jul-12	15	No	INC	2	4:09	5:08	-21.27	\$0	\$0	\$350	-20.92	\$0	\$352	\$0	(\$297)	\$0
250	RT	Transmission Outage Other	PG&E	Humboldt	23-Jul-12	29	No	INC	4	5:13	8:59	33.02	\$1,026	\$0	(\$672)	9.63	(\$196)	\$0	\$0	(\$117)	\$0
251	RT	Transmission Outage PG&E	PG&E	Bay Area	2-Jul-12	30- 37	No	INC	8	7:55	14:59	70.64	\$3,638	\$539	(\$995)	0.00	\$0	\$0	\$0	\$0	\$0
252	RT	Transmission Outage PG&E	PG&E	Bay Area	3-Jul-12	0- 20	No	INC	14	8:35	21:59	207.65	\$10,994	\$272	(\$4,110)	15.68	(\$312)	\$0	\$0	(\$196)	\$0
253	RT	Transmission Outage PG&E	PG&E	Fresno	22-Jul-12	32	No	INC	13	11:50	23:14	368.00	\$16,481	\$257	(\$18,455)	0.00	\$0	\$0	\$0	\$0	\$0
254	RT	Transmission Outage PG&E	PG&E	Fresno	23-Jul-12	32- 64	No	INC	14	9:12	22:59	995.01	\$41,440	\$283	(\$19,774)	8.67	(\$183)	\$0	\$0	(\$127)	\$0
255	RT	Transmission Outage PG&E	PG&E	Fresno	24-Jul-12	32- 64	No	INC	15	9:40	23:59	518.97	\$24,362	\$268	(\$10,829)	0.50	(\$10)	\$0	\$0	(\$10)	\$0
256	RT	Transmission Outage PG&E	PG&E	Fresno	25-Jul-12	32	No	INC	12	12:48	23:20	594.80	\$24,728	\$268	(\$14,689)	5.33	(\$228)	\$0	\$0	\$0	\$0
257	RT	Transmission Outage PG&E	PG&E	Fresno	26-Jul-12	32	No	INC	13	11:45	23:18	465.74	\$21,091	\$268	(\$10,772)	0.00	\$0	\$0	\$0	\$0	\$0

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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
)						
258	RT	Transmission Outage PG&E	PG&E	Fresno	27-Jul-12	32	No	INC	13	11:00	23:54	439.05	\$19,609	\$278	(\$10,404)	0.00	\$0	\$0	\$0	\$0	\$0
259	RT	Transmission Outage PG&E	PG&E	Fresno	28-Jul-12	32	No	INC	11	12:25	22:59	435.38	\$19,879	\$268	(\$11,298)	0.00	\$0	\$0	\$0	\$0	\$0
260	RT	Transmission Outage PG&E	PG&E	Fresno	29-Jul-12	32	No	INC	8	14:05	21:59	478.97	\$20,171	\$268	(\$59,612)	0.00	\$0	\$0	\$0	\$0	\$0
261	RT	Transmission Outage PG&E	PG&E	Fresno	30-Jul-12	32	No	INC	13	11:30	23:59	641.44	\$28,556	\$268	(\$20,220)	0.00	\$0	\$0	\$0	\$0	\$0
262	RT	Transmission Outage PG&E	PG&E	Fresno	31-Jul-12	32- 64	No	INC	14	10:45	23:29	762.34	\$33,538	\$268	(\$32,284)	0.00	\$0	\$0	\$0	\$0	\$0
263	RT	Transmission Outage PG&E	PG&E	Humboldt	2-Jul-12	13- 15	No	INC	4	9:50	12:59	55.22	\$1,524	\$0	(\$637)	23.08	(\$246)	\$0	\$0	(\$510)	\$0
264	RT	Transmission Outage PG&E	PG&E	Humboldt	9-Jul-12	16- 48	No	INC	7	11:49	17:59	-301.62	\$0	\$0	\$7,145	-271.15	\$0	\$6,382	\$0	(\$6,291)	\$0
265	RT	Transmission Outage PG&E	PG&E	Humboldt	10-Jul-12	32	No	INC	1	12:40	12:44	-0.22	\$0	\$0	\$5	0.00	\$0	\$0	\$0	\$0	\$0
266	RT	Transmission Outage PG&E	PG&E	Humboldt	11-Jul-12	32- 56	No	INC	10	13:07	22:59	-176.11	\$1,136	\$114	\$4,095	-162.28	(\$147)	\$59	\$0	(\$165)	\$0
267	RT	Transmission Outage PG&E	PG&E	Humboldt	12-Jul-12	29- 61	No	INC	8	15:00	22:29	-69.63	\$111	\$0	(\$10,536)	-37.77	(\$1)	#####	\$0	(\$121)	\$0
268	RT	Transmission Outage PG&E	PG&E	Humboldt	17-Jul-12	29	No	INC	21	3:30	23:59	-53.31	\$0	\$0	\$892	-35.09	\$0	\$570	\$0	(\$327)	\$0
269	RT	Transmission Outage PG&E	PG&E	Humboldt	18-Jul-12	29- 61	No	INC	24	0:00	23:29	-185.32	\$10,321	\$0	\$4,632	0.00	\$0	\$0	\$0	\$0	\$0
270	RT	Transmission Outage PG&E	PG&E	Humboldt	19-Jul-12	30- 32	No	INC	18	0:00	17:59	-81.01	\$5,499	\$0	\$2,786	0.00	\$0	\$0	\$0	\$0	\$0
271	RT	Transmission Outage PG&E	PG&E	Humboldt	20-Jul-12	29- 61	No	INC	24	0:00	23:59	541.44	\$14,442	\$0	(\$28,109)	160.40	(\$3,578)	\$0	\$0	(\$1,725)	\$0
272	RT	Transmission Outage PG&E	PG&E	Humboldt	21-Jul-12	29- 61	No	INC	24	0:00	23:58	244.94	\$6,195	\$0	(\$13,909)	74.33	(\$2,521)	\$0	\$0	(\$554)	\$0
273	RT	Transmission Outage PG&E	PG&E	Humboldt	22-Jul-12	29- 90	No	INC	24	0:00	23:59	293.33	\$8,615	\$0	(\$3,107)	75.67	(\$251)	\$0	\$0	(\$2,246)	\$0
274	RT	Transmission Outage PG&E	PG&E	Humboldt	23-Jul-12	29- 45	No	INC	24	0:00	23:58	243.53	\$7,405	\$0	(\$4,367)	76.28	(\$1,393)	\$0	\$0	(\$1,062)	\$0
275	RT	Transmission Outage PG&E	PG&E	Humboldt	24-Jul-12	29- 64	No	INC	24	0:00	23:59	709.05	\$18,770	\$0	(\$12,426)	282.42	(\$4,950)	\$0	\$0	(\$3,892)	\$0
276	RT	Transmission Outage PG&E	PG&E	Humboldt	25-Jul-12	64	No	INC	1	0:00	0:59	23.75	\$704	\$0	(\$616)	8.25	(\$210)	\$0	\$0	(\$70)	\$0
277	RT	Transmission Outage PG&E	PG&E	Humboldt	26-Jul-12	16	No	INC	9	7:53	15:59	-104.68	\$0	\$0	\$2,342	-0.02	\$0	\$1	\$0	\$0	\$0
278	RT	Transmission Outage PG&E	PG&E	Humboldt	31-Jul-12	15	No	INC	7	8:17	14:59	99.65	\$2,889	\$0	(\$7,550)	13.39	(\$534)	\$0	\$0	(\$38)	\$0
279	RT	Transmission Outage PG&E	PG&E	NCNB	17-Jul-12	34- 35	No	DEC	4	10:18	13:59	-120.70	\$0	\$0	\$2,836	-120.33	\$0	\$2,828	\$0	(\$6,864)	\$0
280	RT	Transmission Outage SDG&E	SDG&E	San Diego	7-Jul-12	0	Yes	INC	2	17:04	18:14	38.38	\$0	\$0	\$5,000	0.00	\$0	\$0	\$0	\$0	\$0
281	RT	Transmission Outage SDG&E	SDG&E	San Diego	8-Jul-12	0	Yes	INC	3	15:55	17:19	2.05	\$0	\$0	(\$47)	0.00	\$0	\$0	\$0	\$0	\$0
282	RT	Transmission Outage SDG&E	SDG&E	San Diego	10-Jul-12	44	No	DEC	2	12:10	13:34	-34.83	\$0	\$0	\$0	-34.83	\$0	\$0	\$0	\$0	\$0

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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
283	RT	Transmission Outage SDG&E	SDG&E	San Diego	10-Jul-12	0	No	INC	4	12:10	15:24	-1.83	\$0	\$0	\$46	0.00	\$0	\$0	\$0	\$0	\$0
284	RT	Transmission Outage SDG&E	SDG&E	San Diego	11-Jul-12	39- 43	Yes	DEC	9	12:10	20:59	-133.89	\$0	\$0	\$3,350	-133.87	\$0	\$3,350	\$0	(\$3,350)	\$0
285	RT	Transmission Outage SDG&E	SDG&E	San Diego	11-Jul-12	0	Yes	INC	12	12:00	23:59	-2.14	\$0	\$0	\$61	0.00	\$0	\$0	\$0	\$0	\$0
286	RT	Transmission Outage SDG&E	SDG&E	San Diego	12-Jul-12	38	No	DEC	7	13:00	19:59	-227.08	\$0	\$0	\$3,954	-227.08	\$0	\$3,954	\$0	(\$3,954)	\$0
287	RT	Transmission Outage SDG&E	SDG&E	San Diego	12-Jul-12	0	No	INC	20	0:00	19:59	-341.40	\$0	\$0	\$6,161	-339.58	\$0	\$6,125	\$0	(\$6,124)	\$0
288	RT	Transmission Outage SDG&E	SDG&E	San Diego	13-Jul-12	0	Yes	INC	1	14:00	14:59	0.00	\$0	\$0	(\$0)	0.00	\$0	\$0	\$0	\$0	\$0
289	RT	Transmission Outage SDG&E	SDG&E	San Diego	15-Jul-12	47	Yes	INC	4	10:30	13:59	162.47	\$5,421	\$0	(\$4,012)	6.96	(\$173)	\$0	\$0	(\$3)	\$0
290	RT	Transmission Outage SDG&E	SDG&E	San Diego	17-Jul-12	0	Yes	INC	6	11:50	16:59	0.00	\$0	\$0	\$0	0.00	\$0	\$0	\$0	\$0	\$0
291	RT	Unit Testing	PG&E	N/A	9-Jul-12	45	Yes	INC	10	9:30	18:59	279.19	\$0	\$0	(\$8,933)	113.81	(\$4,963)	\$0	\$0	\$0	\$0
292	RT	Unit Testing	PG&E	N/A	10-Jul-12	25	Yes	INC	10	8:25	17:59	189.38	\$0	\$0	(\$4,632)	3.59	(\$155)	\$0	\$0	\$0	\$0
293	RT	Unit Testing	PG&E	N/A	15-Jul-12	45	Yes	INC	11	8:10	18:59	483.47	\$0	\$0	(\$15,321)	218.05	(\$9,285)	\$0	\$0	\$0	\$0
294	RT	Unit Testing	PG&E	N/A	19-Jul-12	25- 45	Yes	INC	8	11:55	18:59	258.45	\$0	\$0	(\$34,659)	85.71	(\$14,258)	\$0	\$0	\$0	\$0
295	RT	Voltage Support	PG&E	Fresno	10-Jul-12	32- 112	Yes	INC	7	16:40	22:59	455.09	\$14,432	\$615	(\$16,108)	59.33	(\$1,582)	\$0	\$0	(\$610)	\$0
296	RT	Voltage Support	PG&E	Fresno	11-Jul-12	32- 64	No	INC	14	10:30	23:59	805.74	\$35,111	\$268	(\$17,959)	1.34	(\$30)	\$0	\$0	(\$19)	\$0
297	RT	Voltage Support	PG&E	Fresno	12-Jul-12	32- 64	No	INC	15	9:55	23:59	1020.30	\$39,345	\$268	(\$48,089)	0.00	\$0	\$0	\$0	\$0	\$0
298	RT	Voltage Support	PG&E	Fresno	13-Jul-12	32- 84	No	INC	24	0:00	23:59	1493.10	\$49,623	\$335	(\$26,395)	266.67	(\$4,587)	\$0	\$0	(\$6,560)	\$0
299	RT	Voltage Support	PG&E	Fresno	14-Jul-12	32	No	INC	23	0:00	22:59	394.74	\$17,154	\$270	(\$8,842)	0.00	\$0	\$0	\$0	\$0	\$0
300	RT	Voltage Support	PG&E	Fresno	15-Jul-12	32	No	INC	10	13:00	22:59	523.12	\$20,364	\$268	(\$15,422)	0.04	(\$1)	\$0	\$0	(\$1)	\$0
301	RT	Voltage Support	PG&E	Fresno	16-Jul-12	32	No	INC	12	11:40	22:59	349.33	\$14,980	\$268	(\$6,159)	0.00	\$0	\$0	\$0	\$0	\$0
302	RT	Voltage Support	PG&E	Fresno	17-Jul-12	32	No	INC	8	15:20	22:29	235.67	\$9,831	\$268	(\$7,671)	0.00	\$0	\$0	\$0	\$0	\$0
303	RT	Voltage Support	PG&E	Fresno	18-Jul-12	32	No	INC	8	15:20	22:59	344.93	\$12,704	\$71	(\$11,393)	0.71	(\$21)	\$0	\$0	(\$0)	\$0
304	RT	Voltage Support	PG&E	Fresno	19-Jul-12	32	No	INC	12	12:10	23:29	680.91	\$25,638	\$268	(\$86,054)	0.33	(\$8)	\$0	\$0	(\$4)	\$0
305	RT	Voltage Support	PG&E	Fresno	20-Jul-12	32	No	INC	11	13:01	23:43	563.73	\$20,710	\$357	(\$70,843)	0.00	\$0	\$0	\$0	\$0	\$0
306	RT	Voltage Support	PG&E	Fresno	21-Jul-12	32- 64	No	INC	13	11:15	23:59	853.02	\$31,643	\$268	(\$76,674)	0.72	(\$16)	\$0	\$0	\$0	\$0
307	RT	Voltage Support	PG&E	Fresno	22-Jul-12	32	No	INC	13	11:38	23:44	408.00	\$16,958	\$279	(\$19,523)	0.00	\$0	\$0	\$0	\$0	\$0

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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
308	RT	Voltage Support	PG&E	Humboldt	5-Jul-12	16- 47	No	INC	3	17:18	19:59	-50.69	\$0	\$0	\$655	-36.95	\$0	\$481	\$0	(\$258)	\$0
309	RT	Voltage Support	PG&E	N/A	15-Jul-12	25	Yes	INC	1	8:10	8:59	44.15	\$0	\$0	(\$1,368)	18.36	(\$782)	\$0	\$0	\$0	\$0
310	RT	Weather	SDG&E	San Diego	31-Jul-12	20	No	INC	11	13:00	23:59	588.60	\$40,710	\$8,485	(\$18,545)	4.04	(\$143)	\$0	\$0	\$0	\$0

Appendix A: Explanation by Example

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

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

Example 1: Exceptional Dispatch Instructions Prior to DAM

In this fictitious example the ISO issued an exceptional dispatch instruction for resource A to be committed at its Pmin of 50 MW from hours ending 5 through 10 for a generation procedure 7630. 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	7630	300	\$5000	\$0	0
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	7630	390	\$6000	\$500	\$4000
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	7630	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.

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	7630	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00	990	\$11,400	\$1,500	\$5000

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.

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 7110. 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 7110. This resource had a day-ahead schedule of 20 MW from the day-ahead market, which implies that this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C is shown in Table 4. This table also shows volume (MWh) and various real-time charge codes associated with the exceptional dispatch instructions. The total MWh column for each resource shows the sum of all types of imbalance energy quantities for this resource between the begin time and end time which includes both the exceptional dispatch energy quantities and optimal energy quantities.

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

Resource B is dispatched 20 MW above its day-ahead schedule, so its total volume (MWh) is calculated as 20 MW times 3 hours which is equal to 60 MWh. Since the resource was committed in the Day-Ahead Market there are no minimum load quantity and start up costs associated with this resource. The resource had a bid price of \$100/MWh and the LMP at that resource was \$10/MWh. All of 60 MWh is considered as exceptional dispatch incremental quantity which is shown in ED Volume (MWH INC/DEC) column. The charge code CC6470 INC is calculated as 60 MWh * resource LMP (\$10/MWh) which is equal to \$600. Since the only imbalance energy in this timeframe was the exceptional dispatch volume, the charge code CC6470 is equal to CC6470 INC. The charge code CC6488 is calculated as MWh quantity *(bid price – LMP), which is equal to \$5400 (60 MWh * (\$100/MWh-\$10/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	7110	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	7110	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	7110	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	7110	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	7110	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 7430. The ISO issued additional exceptional dispatch instructions for resources B and C; details of those instructions are shown in Table 6. This table also includes volume (MWh) and cost information.

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

Table 6: Decremental Exceptional Dispatch Instructions in RTM

Date	Market Type	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
1-Jul-09	RT	B	PG&E	Fresno	7:00	9:00	40	60	No	DEC	20	7430	(60)	\$ -	\$ -	\$ 600	-60	\$ -	\$ 600	\$ -	\$2,400
1-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	7430	(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	7430	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
2	RT	7430	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 (PGAE) 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 PGAE LAP and point B is in SCE LAP. Please note these two points correspond to an actual pricing node in the ISO system. Only one resource was connected to each of these pricing nodes. For each resource the following input parameters were obtained to perform the analysis:

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

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

An exceptional dispatch instruction can be generally classified as a start up instruction, an instruction to be dispatched at or above the constrained level, an instruction to be dispatched at or below a constrained level, an instruction to be dispatched at a fixed constrained level, or a shut down instruction. In general, the Locational Marginal Price (LMP) is set by a resource which can provide the next incremental MW of energy. Based on this definition of LMP and the classification of exceptional dispatches based on constraint type, a resource is allowed to set the LMP in only those intervals in which the resource is eligible to move either up or down from its constrained level. Hence, in those intervals in which the resource was constrained up at its Pmax or, in other words, the resource was exceptionally dispatched to its Pmax and forced to generate at that level, the resource was considered ineligible to set the price as it had no room to move up. Similarly, if the resource was constrained down at its Pmin, then the resource was not eligible to set the price. All those intervals in which the resource was ineligible to set the price were dropped from the dataset under consideration. From this dataset of only eligible intervals, for both pricing nodes A and B, LMPs were calculated for all intervals based on the resource dispatch level and the 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 PGAE 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 July, this resource was issued exceptional dispatch instructions in 791 five-minute intervals. This resource was eligible to set the LMP in 752 intervals. Resource calculated LMP was larger than the market LMP in 650 of the 752 intervals. In the 650 intervals, the average increase in five minute LMP was \$9.95/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 \$9.95/MWh. Note that 650 five minute intervals are approximately 7.28 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, this resource was issued an exceptional dispatch instruction in 2237 five minute intervals. This resource was eligible to set the LMP in all 2237 intervals. Out of the 2237 intervals, resource calculated LMP was larger than the market LMP in 2221 intervals. In the 2221 intervals, the average increase in five minute LMP was \$935.77/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 \$935.77/MWh. The 2221 five minute intervals account for approximately 24.88 percent of the total 8,928 five minute intervals.

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

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	2-Jul-12	7	1	\$14.02	No	\$31.11	\$17.09
2	2-Jul-12	7	2	-\$32.91	No	\$31.11	\$64.02
3	2-Jul-12	7	3	-\$32.94	No	\$31.11	\$64.05
4	2-Jul-12	7	4	-\$33.12	No	\$31.11	\$64.23
5	2-Jul-12	7	5	-\$33.09	No	\$31.11	\$64.20
6	2-Jul-12	7	6	-\$5.08	No	\$31.11	\$36.19
7	2-Jul-12	7	7	\$7.03	No	\$31.11	\$24.08
8	2-Jul-12	7	8	\$19.20	No	\$31.11	\$11.91
9	2-Jul-12	7	9	\$21.66	No	\$31.11	\$9.45
10	2-Jul-12	7	10	\$22.19	No	\$31.11	\$8.92
11	2-Jul-12	7	11	\$22.80	No	\$31.11	\$8.31
12	2-Jul-12	7	12	\$22.84	No	\$31.11	\$8.27
13	2-Jul-12	8	1	-\$31.90	No	\$31.11	\$63.01
14	9-Jul-12	22	8	\$19.74	Yes	\$24.18	\$4.44
15	9-Jul-12	22	9	\$18.69	Yes	\$24.18	\$5.49
16	9-Jul-12	22	10	\$18.39	Yes	\$24.18	\$5.79
17	9-Jul-12	22	10	\$18.39	Yes	\$30.24	\$11.85
18	9-Jul-12	22	11	\$18.23	Yes	\$24.18	\$5.95
19	9-Jul-12	22	11	\$18.23	Yes	\$30.24	\$12.01
20	9-Jul-12	22	12	\$14.45	Yes	\$24.18	\$9.73
21	9-Jul-12	22	12	\$14.45	Yes	\$30.24	\$15.79
22	9-Jul-12	23	1	\$21.18	Yes	\$34.37	\$13.19
23	9-Jul-12	23	2	\$22.96	Yes	\$34.37	\$11.41
24	9-Jul-12	23	3	\$23.01	Yes	\$34.37	\$11.36
25	9-Jul-12	23	4	\$22.96	Yes	\$34.37	\$11.41
26	9-Jul-12	23	5	\$22.59	Yes	\$34.37	\$11.78
27	9-Jul-12	23	6	\$22.85	Yes	\$34.37	\$11.52
28	9-Jul-12	23	7	\$21.26	Yes	\$31.29	\$10.03
29	9-Jul-12	23	7	\$21.26	Yes	\$34.37	\$13.11
30	9-Jul-12	23	8	\$20.14	Yes	\$31.29	\$11.15
31	9-Jul-12	23	8	\$20.14	Yes	\$34.37	\$14.23
32	9-Jul-12	23	9	\$15.04	Yes	\$31.29	\$16.25
33	9-Jul-12	23	9	\$15.04	Yes	\$34.37	\$19.33
34	9-Jul-12	23	10	\$15.02	Yes	\$31.29	\$16.27
35	9-Jul-12	23	10	\$15.02	Yes	\$34.37	\$19.35
36	9-Jul-12	23	11	\$13.74	Yes	\$31.29	\$17.55
37	9-Jul-12	23	11	\$13.74	Yes	\$34.37	\$20.63
38	9-Jul-12	23	12	\$5.10	Yes	\$31.29	\$26.19
39	9-Jul-12	23	12	\$5.10	Yes	\$34.37	\$29.27
40	11-Jul-12	16	9	\$28.41	Yes	\$31.29	\$2.88
41	11-Jul-12	16	10	\$23.84	Yes	\$31.29	\$7.45
42	11-Jul-12	16	11	\$25.32	Yes	\$31.29	\$5.97

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
43	11-Jul-12	16	12	\$23.99	Yes	\$31.29	\$7.30
44	11-Jul-12	16	12	\$23.99	Yes	\$36.09	\$12.10
45	11-Jul-12	17	1	\$25.14	Yes	\$36.09	\$10.95
46	11-Jul-12	17	2	\$26.02	Yes	\$36.09	\$10.07
47	11-Jul-12	17	3	\$26.67	Yes	\$36.09	\$9.42
48	11-Jul-12	17	4	\$27.31	Yes	\$36.09	\$8.78
49	11-Jul-12	17	5	\$27.63	Yes	\$36.09	\$8.46
50	11-Jul-12	17	6	\$27.31	Yes	\$36.09	\$8.78
51	11-Jul-12	17	7	\$21.68	Yes	\$36.09	\$14.41
52	11-Jul-12	17	7	\$21.68	Yes	\$39.67	\$17.99
53	11-Jul-12	17	8	\$25.73	Yes	\$36.09	\$10.36
54	11-Jul-12	17	8	\$25.73	Yes	\$39.67	\$13.94
55	11-Jul-12	17	9	\$25.25	Yes	\$36.09	\$10.84
56	11-Jul-12	17	9	\$25.25	Yes	\$39.67	\$14.42
57	11-Jul-12	17	10	\$24.00	Yes	\$36.09	\$12.09
58	11-Jul-12	17	10	\$24.00	Yes	\$39.67	\$15.67
59	11-Jul-12	17	11	\$24.63	Yes	\$36.09	\$11.46
60	11-Jul-12	17	11	\$24.63	Yes	\$39.67	\$15.04
61	11-Jul-12	17	12	\$25.78	Yes	\$36.09	\$10.31
62	11-Jul-12	17	12	\$25.78	Yes	\$39.67	\$13.89
63	11-Jul-12	18	1	\$27.82	Yes	\$39.67	\$11.85
64	11-Jul-12	18	2	\$25.90	Yes	\$39.67	\$13.77
65	11-Jul-12	18	3	\$25.85	Yes	\$39.67	\$13.82
66	11-Jul-12	18	4	\$27.13	Yes	\$36.09	\$8.96
67	11-Jul-12	18	5	\$27.36	Yes	\$36.09	\$8.73
68	11-Jul-12	18	6	\$27.81	Yes	\$36.09	\$8.28
69	11-Jul-12	18	7	\$27.84	Yes	\$36.09	\$8.25
70	11-Jul-12	18	8	\$27.89	Yes	\$36.09	\$8.20
71	11-Jul-12	18	9	\$27.89	Yes	\$36.09	\$8.20
72	11-Jul-12	18	10	\$27.05	Yes	\$36.09	\$9.04
73	11-Jul-12	18	11	\$27.05	Yes	\$36.09	\$9.04
74	11-Jul-12	18	12	\$27.05	Yes	\$36.09	\$9.04
75	11-Jul-12	19	1	\$26.80	Yes	\$36.09	\$9.29
76	11-Jul-12	19	2	\$26.43	Yes	\$36.09	\$9.66
77	11-Jul-12	19	3	\$27.59	Yes	\$36.09	\$8.50
78	11-Jul-12	19	4	\$27.26	Yes	\$36.09	\$8.83
79	11-Jul-12	19	5	\$27.26	Yes	\$36.09	\$8.83
80	11-Jul-12	19	6	\$27.09	Yes	\$36.09	\$9.00
81	11-Jul-12	19	7	\$26.03	Yes	\$36.09	\$10.06
82	11-Jul-12	19	8	\$26.45	Yes	\$36.09	\$9.64
83	11-Jul-12	19	9	\$25.87	Yes	\$36.09	\$10.22
84	11-Jul-12	19	10	\$25.79	Yes	\$36.09	\$10.30
85	11-Jul-12	19	11	\$24.77	Yes	\$36.09	\$11.32
86	11-Jul-12	19	12	\$23.74	Yes	\$36.09	\$12.35
87	11-Jul-12	20	1	\$23.04	Yes	\$36.09	\$13.05

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
88	11-Jul-12	20	2	\$23.04	Yes	\$36.09	\$13.05
89	11-Jul-12	20	3	\$23.04	Yes	\$36.09	\$13.05
90	11-Jul-12	20	4	\$22.89	Yes	\$36.09	\$13.20
91	11-Jul-12	20	5	\$22.80	Yes	\$36.09	\$13.29
92	11-Jul-12	20	6	\$22.74	Yes	\$36.09	\$13.35
93	11-Jul-12	20	7	\$22.56	Yes	\$36.09	\$13.53
94	11-Jul-12	20	8	\$22.62	Yes	\$36.09	\$13.47
95	11-Jul-12	20	9	\$22.45	Yes	\$36.09	\$13.64
96	11-Jul-12	20	10	\$21.56	Yes	\$36.09	\$14.53
97	11-Jul-12	20	11	\$21.04	Yes	\$36.09	\$15.05
98	11-Jul-12	20	12	\$21.03	Yes	\$29.52	\$8.49
99	11-Jul-12	20	12	\$21.03	Yes	\$36.09	\$15.06
100	11-Jul-12	21	1	\$21.03	Yes	\$29.52	\$8.49
101	11-Jul-12	21	2	\$21.03	Yes	\$29.52	\$8.49
102	11-Jul-12	21	3	\$23.21	Yes	\$29.52	\$6.31
103	11-Jul-12	21	4	\$28.04	Yes	\$29.52	\$1.48
104	11-Jul-12	21	5	\$26.42	Yes	\$29.52	\$3.10
105	11-Jul-12	21	6	\$25.99	Yes	\$29.52	\$3.53
106	11-Jul-12	21	7	\$26.51	Yes	\$29.52	\$3.01
107	11-Jul-12	21	8	\$26.83	Yes	\$29.52	\$2.69
108	11-Jul-12	21	9	\$26.47	Yes	\$29.52	\$3.05
109	11-Jul-12	21	10	\$25.43	Yes	\$29.52	\$4.09
110	11-Jul-12	21	11	\$24.24	Yes	\$29.52	\$5.28
111	11-Jul-12	21	12	\$23.76	Yes	\$29.52	\$5.76
112	11-Jul-12	22	1	\$24.37	Yes	\$29.52	\$5.15
113	11-Jul-12	22	2	\$24.64	Yes	\$29.52	\$4.88
114	11-Jul-12	22	3	\$24.42	Yes	\$29.52	\$5.10
115	11-Jul-12	22	4	\$22.51	Yes	\$29.52	\$7.01
116	11-Jul-12	22	5	\$22.77	Yes	\$27.48	\$4.71
117	11-Jul-12	22	6	\$22.77	Yes	\$27.48	\$4.71
118	11-Jul-12	22	7	\$22.18	Yes	\$27.48	\$5.30
119	11-Jul-12	22	8	\$22.43	Yes	\$27.48	\$5.05
120	11-Jul-12	22	9	\$21.96	Yes	\$27.48	\$5.52
121	11-Jul-12	22	10	\$21.32	Yes	\$27.48	\$6.16
122	11-Jul-12	22	11	\$20.65	Yes	\$27.48	\$6.83
123	11-Jul-12	22	12	\$18.59	Yes	\$27.48	\$8.89
124	12-Jul-12	15	10	\$13.50	Yes	\$36.09	\$22.59
125	12-Jul-12	15	11	\$14.02	Yes	\$36.09	\$22.07
126	12-Jul-12	15	12	\$15.13	Yes	\$36.09	\$20.96
127	12-Jul-12	16	1	\$15.53	Yes	\$36.09	\$20.56
128	12-Jul-12	16	2	\$17.55	Yes	\$36.09	\$18.54
129	12-Jul-12	16	3	\$19.17	Yes	\$36.09	\$16.92
130	12-Jul-12	16	4	\$17.65	Yes	\$36.09	\$18.44
131	12-Jul-12	16	5	\$17.65	Yes	\$36.09	\$18.44
132	12-Jul-12	16	6	\$20.76	Yes	\$36.09	\$15.33

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
133	12-Jul-12	16	7	\$21.16	Yes	\$36.09	\$14.93
134	12-Jul-12	16	8	\$21.85	Yes	\$36.09	\$14.24
135	12-Jul-12	16	9	\$21.85	Yes	\$36.09	\$14.24
136	12-Jul-12	16	10	\$20.73	Yes	\$36.09	\$15.36
137	12-Jul-12	16	11	\$20.73	Yes	\$36.09	\$15.36
138	12-Jul-12	16	12	\$19.84	Yes	\$36.09	\$16.25
139	12-Jul-12	16	12	\$19.84	Yes	\$46.80	\$26.96
140	12-Jul-12	17	1	\$20.58	Yes	\$46.80	\$26.22
141	12-Jul-12	17	2	\$20.11	Yes	\$46.80	\$26.69
142	12-Jul-12	17	3	\$19.84	Yes	\$46.80	\$26.96
143	12-Jul-12	17	4	\$80.30	Yes	\$46.80	-\$33.50
144	12-Jul-12	17	5	\$86.64	Yes	\$46.80	-\$39.84
145	12-Jul-12	17	6	\$86.05	Yes	\$46.80	-\$39.25
146	12-Jul-12	17	7	\$88.41	Yes	\$46.80	-\$41.61
147	12-Jul-12	17	8	\$93.66	Yes	\$46.80	-\$46.86
148	12-Jul-12	17	9	\$98.99	Yes	\$46.80	-\$52.19
149	12-Jul-12	17	10	\$98.74	Yes	\$46.80	-\$51.94
150	12-Jul-12	17	11	\$97.06	Yes	\$46.80	-\$50.26
151	12-Jul-12	17	12	\$101.60	Yes	\$46.80	-\$54.80
152	12-Jul-12	18	1	\$101.05	Yes	\$46.80	-\$54.25
153	12-Jul-12	18	2	\$96.56	Yes	\$46.80	-\$49.76
154	12-Jul-12	18	3	\$88.24	Yes	\$46.80	-\$41.44
155	12-Jul-12	18	4	\$108.50	Yes	\$46.80	-\$61.70
156	12-Jul-12	18	5	\$108.50	Yes	\$46.80	-\$61.70
157	12-Jul-12	18	6	\$94.89	Yes	\$46.80	-\$48.09
158	12-Jul-12	18	7	\$96.08	Yes	\$46.80	-\$49.28
159	12-Jul-12	18	8	\$48.19	Yes	\$46.80	-\$1.39
160	12-Jul-12	18	9	\$60.42	Yes	\$46.80	-\$13.62
161	12-Jul-12	18	10	\$80.46	Yes	\$46.80	-\$33.66
162	12-Jul-12	18	11	\$81.79	Yes	\$46.80	-\$34.99
163	12-Jul-12	18	12	\$90.63	Yes	\$46.80	-\$43.83
164	12-Jul-12	19	1	\$39.33	Yes	\$46.80	\$7.47
165	12-Jul-12	19	2	\$19.96	Yes	\$46.80	\$26.84
166	12-Jul-12	19	3	\$19.30	Yes	\$46.80	\$27.50
167	12-Jul-12	19	4	\$105.39	Yes	\$46.80	-\$58.59
168	12-Jul-12	19	5	\$100.68	Yes	\$46.80	-\$53.88
169	12-Jul-12	19	6	\$104.62	Yes	\$46.80	-\$57.82
170	12-Jul-12	19	7	\$101.85	Yes	\$46.80	-\$55.05
171	12-Jul-12	19	8	\$106.86	Yes	\$46.80	-\$60.06
172	12-Jul-12	19	9	\$108.92	Yes	\$46.80	-\$62.12
173	12-Jul-12	19	10	\$19.96	Yes	\$46.80	\$26.84
174	12-Jul-12	19	11	\$19.96	Yes	\$46.80	\$26.84
175	12-Jul-12	19	12	\$18.95	Yes	\$46.80	\$27.85
176	12-Jul-12	20	1	\$20.64	Yes	\$46.80	\$26.16
177	12-Jul-12	20	2	\$20.33	Yes	\$46.80	\$26.47

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
178	12-Jul-12	20	3	\$21.57	Yes	\$46.80	\$25.23
179	12-Jul-12	20	4	\$101.23	Yes	\$46.80	-\$54.43
180	12-Jul-12	20	5	\$95.56	Yes	\$46.80	-\$48.76
181	12-Jul-12	20	6	\$94.48	Yes	\$46.80	-\$47.68
182	12-Jul-12	20	7	\$92.79	Yes	\$46.80	-\$45.99
183	12-Jul-12	20	8	\$96.37	Yes	\$46.80	-\$49.57
184	12-Jul-12	20	9	\$95.19	Yes	\$46.80	-\$48.39
185	12-Jul-12	20	10	\$23.04	Yes	\$46.80	\$23.76
186	12-Jul-12	20	11	\$23.04	Yes	\$46.80	\$23.76
187	12-Jul-12	20	12	\$23.04	Yes	\$46.80	\$23.76
188	12-Jul-12	21	1	\$21.84	Yes	\$46.80	\$24.96
189	12-Jul-12	21	2	\$21.68	Yes	\$46.80	\$25.12
190	12-Jul-12	21	3	\$22.92	Yes	\$46.80	\$23.88
191	12-Jul-12	21	4	\$25.11	Yes	\$46.80	\$21.69
192	12-Jul-12	21	5	\$25.78	Yes	\$46.80	\$21.02
193	12-Jul-12	21	6	\$22.50	Yes	\$46.80	\$24.30
194	12-Jul-12	21	7	\$22.51	Yes	\$46.80	\$24.29
195	12-Jul-12	21	8	\$23.35	Yes	\$46.80	\$23.45
196	12-Jul-12	21	9	\$22.93	Yes	\$46.80	\$23.87
197	12-Jul-12	21	10	\$95.82	Yes	\$46.80	-\$49.02
198	12-Jul-12	21	11	\$92.56	Yes	\$46.80	-\$45.76
199	12-Jul-12	21	12	\$92.56	Yes	\$46.80	-\$45.76
200	12-Jul-12	22	1	\$92.56	No	\$25.50	-\$67.06
201	12-Jul-12	22	1	\$92.56	Yes	\$46.80	-\$45.76
202	12-Jul-12	22	2	\$92.56	No	\$25.50	-\$67.06
203	12-Jul-12	22	2	\$92.56	Yes	\$46.80	-\$45.76
204	12-Jul-12	22	3	\$36.64	Yes	\$46.80	\$10.16
205	12-Jul-12	22	4	\$46.14	Yes	\$46.80	\$0.66
206	12-Jul-12	22	5	\$35.58	Yes	\$46.80	\$11.22
207	12-Jul-12	22	6	\$36.22	Yes	\$46.80	\$10.58
208	12-Jul-12	22	7	\$36.10	Yes	\$46.80	\$10.70
209	12-Jul-12	22	8	\$15.50	Yes	\$46.80	\$31.30
210	13-Jul-12	17	5	\$17.28	Yes	\$27.48	\$10.20
211	13-Jul-12	17	6	\$17.28	Yes	\$27.48	\$10.20
212	13-Jul-12	17	7	\$17.29	Yes	\$27.48	\$10.19
213	13-Jul-12	17	8	\$18.02	Yes	\$27.48	\$9.46
214	13-Jul-12	17	9	\$16.70	Yes	\$27.48	\$10.78
215	13-Jul-12	17	10	\$17.10	Yes	\$27.48	\$10.38
216	13-Jul-12	17	11	\$17.10	Yes	\$27.48	\$10.38
217	13-Jul-12	17	12	\$17.10	Yes	\$27.48	\$10.38
218	13-Jul-12	18	1	\$17.86	Yes	\$27.48	\$9.62
219	13-Jul-12	18	2	\$20.45	Yes	\$27.48	\$7.03
220	13-Jul-12	18	3	\$20.45	Yes	\$27.48	\$7.03
221	13-Jul-12	18	4	\$20.32	Yes	\$27.48	\$7.16
222	13-Jul-12	18	5	\$20.41	Yes	\$27.48	\$7.07

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
223	13-Jul-12	18	5	\$20.41	Yes	\$29.52	\$9.11
224	13-Jul-12	18	6	\$20.32	Yes	\$27.48	\$7.16
225	13-Jul-12	18	6	\$20.32	Yes	\$29.52	\$9.20
226	13-Jul-12	18	7	\$19.82	Yes	\$27.48	\$7.66
227	13-Jul-12	18	7	\$19.82	Yes	\$29.52	\$9.70
228	13-Jul-12	18	8	\$20.32	Yes	\$27.48	\$7.16
229	13-Jul-12	18	8	\$20.32	Yes	\$29.52	\$9.20
230	13-Jul-12	18	9	\$19.47	Yes	\$27.48	\$8.01
231	13-Jul-12	18	9	\$19.47	Yes	\$29.52	\$10.05
232	13-Jul-12	18	10	\$18.97	Yes	\$27.48	\$8.51
233	13-Jul-12	18	10	\$18.97	Yes	\$29.52	\$10.55
234	13-Jul-12	18	11	\$17.23	Yes	\$27.48	\$10.25
235	13-Jul-12	18	11	\$17.23	Yes	\$29.52	\$12.29
236	13-Jul-12	18	12	\$17.22	Yes	\$27.48	\$10.26
237	13-Jul-12	18	12	\$17.22	Yes	\$29.52	\$12.30
238	13-Jul-12	19	1	\$17.78	Yes	\$29.52	\$11.74
239	13-Jul-12	19	2	\$17.78	Yes	\$29.52	\$11.74
240	13-Jul-12	19	3	\$18.63	Yes	\$29.52	\$10.89
241	13-Jul-12	19	4	\$17.93	Yes	\$29.52	\$11.59
242	13-Jul-12	19	5	\$17.93	Yes	\$29.52	\$11.59
243	13-Jul-12	19	6	\$19.42	Yes	\$29.52	\$10.10
244	13-Jul-12	19	7	\$19.09	Yes	\$29.52	\$10.43
245	13-Jul-12	19	8	\$19.75	Yes	\$29.52	\$9.77
246	13-Jul-12	19	9	\$19.75	Yes	\$29.52	\$9.77
247	13-Jul-12	19	10	\$20.49	Yes	\$29.52	\$9.03
248	13-Jul-12	19	11	\$20.45	Yes	\$29.52	\$9.07
249	13-Jul-12	19	12	\$18.67	Yes	\$29.52	\$10.85
250	13-Jul-12	20	1	\$20.22	Yes	\$29.52	\$9.30
251	13-Jul-12	20	2	\$20.22	Yes	\$29.52	\$9.30
252	13-Jul-12	20	3	\$19.10	Yes	\$29.52	\$10.42
253	13-Jul-12	20	4	\$17.91	Yes	\$29.52	\$11.61
254	13-Jul-12	20	5	\$18.51	Yes	\$29.52	\$11.01
255	13-Jul-12	20	6	\$17.92	Yes	\$29.52	\$11.60
256	13-Jul-12	20	7	\$17.90	Yes	\$29.52	\$11.62
257	13-Jul-12	20	8	\$15.75	Yes	\$29.52	\$13.77
258	13-Jul-12	20	9	\$16.19	Yes	\$29.52	\$13.33
259	13-Jul-12	20	10	\$16.66	Yes	\$29.52	\$12.86
260	13-Jul-12	20	11	\$17.09	Yes	\$29.52	\$12.43
261	13-Jul-12	20	12	\$17.09	Yes	\$29.52	\$12.43
262	13-Jul-12	21	1	\$16.15	Yes	\$29.52	\$13.37
263	13-Jul-12	21	2	\$16.98	Yes	\$29.52	\$12.54
264	13-Jul-12	21	3	\$17.63	Yes	\$29.52	\$11.89
265	13-Jul-12	21	4	\$17.40	Yes	\$29.52	\$12.12
266	13-Jul-12	21	5	\$17.99	Yes	\$29.52	\$11.53
267	13-Jul-12	21	6	\$17.22	Yes	\$29.52	\$12.30

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
268	13-Jul-12	21	7	\$17.22	Yes	\$29.52	\$12.30
269	13-Jul-12	21	8	\$17.50	Yes	\$29.52	\$12.02
270	13-Jul-12	21	9	\$17.50	Yes	\$29.52	\$12.02
271	13-Jul-12	21	10	\$15.60	Yes	\$29.52	\$13.92
272	13-Jul-12	21	11	\$15.32	Yes	\$29.52	\$14.20
273	13-Jul-12	21	12	\$15.32	Yes	\$29.52	\$14.20
274	13-Jul-12	22	1	\$17.91	Yes	\$29.52	\$11.61
275	13-Jul-12	22	2	\$17.00	Yes	\$29.52	\$12.52
276	13-Jul-12	22	3	\$15.53	Yes	\$29.52	\$13.99
277	13-Jul-12	22	4	\$15.52	Yes	\$29.52	\$14.00
278	13-Jul-12	22	5	\$15.49	Yes	\$29.52	\$14.03
279	13-Jul-12	22	6	\$15.49	Yes	\$29.52	\$14.03
280	13-Jul-12	22	7	\$15.49	Yes	\$29.52	\$14.03
281	13-Jul-12	22	8	\$15.43	Yes	\$29.52	\$14.09
282	13-Jul-12	22	9	\$15.43	Yes	\$29.52	\$14.09
283	13-Jul-12	22	10	\$12.85	Yes	\$29.52	\$16.67
284	13-Jul-12	22	11	\$10.29	Yes	\$29.52	\$19.23
285	13-Jul-12	22	12	\$9.73	Yes	\$29.52	\$19.79
286	13-Jul-12	23	11	\$11.34	No	\$25.50	\$14.16
287	13-Jul-12	23	12	\$0.03	No	\$25.50	\$25.47
288	13-Jul-12	24	1	\$11.53	No	\$25.50	\$13.97
289	13-Jul-12	24	2	\$11.92	No	\$25.50	\$13.58
290	13-Jul-12	24	3	\$13.61	No	\$25.50	\$11.89
291	13-Jul-12	24	4	\$21.40	No	\$25.50	\$4.10
292	13-Jul-12	24	5	\$23.37	No	\$25.50	\$2.13
293	13-Jul-12	24	6	\$21.17	No	\$25.50	\$4.33
294	13-Jul-12	24	7	\$19.35	No	\$25.50	\$6.15
295	13-Jul-12	24	8	\$13.11	No	\$25.50	\$12.39
296	13-Jul-12	24	9	\$11.85	No	\$25.50	\$13.65
297	13-Jul-12	24	10	\$0.48	No	\$25.50	\$25.02
298	14-Jul-12	17	11	\$23.23	Yes	\$27.48	\$4.25
299	14-Jul-12	17	12	\$23.32	Yes	\$27.48	\$4.16
300	14-Jul-12	18	1	\$23.53	Yes	\$27.48	\$3.95
301	14-Jul-12	18	2	\$23.55	Yes	\$27.48	\$3.93
302	14-Jul-12	18	3	\$25.48	Yes	\$27.48	\$2.00
303	14-Jul-12	18	4	\$46.70	Yes	\$27.48	-\$19.22
304	14-Jul-12	18	5	\$46.70	Yes	\$27.48	-\$19.22
305	14-Jul-12	18	6	\$46.70	Yes	\$27.48	-\$19.22
306	14-Jul-12	18	7	\$45.20	Yes	\$27.48	-\$17.72
307	14-Jul-12	18	8	\$23.26	Yes	\$27.48	\$4.22
308	14-Jul-12	18	9	\$23.32	Yes	\$27.48	\$4.16
309	14-Jul-12	18	10	\$45.81	Yes	\$27.48	-\$18.33
310	14-Jul-12	18	11	\$44.92	Yes	\$27.48	-\$17.44
311	14-Jul-12	18	12	\$44.53	Yes	\$27.48	-\$17.05
312	14-Jul-12	19	1	\$44.74	Yes	\$27.48	-\$17.26

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
313	14-Jul-12	19	2	\$21.64	Yes	\$27.48	\$5.84
314	14-Jul-12	19	3	\$22.38	Yes	\$27.48	\$5.10
315	14-Jul-12	19	4	\$22.34	Yes	\$27.48	\$5.14
316	14-Jul-12	19	5	\$22.35	Yes	\$27.48	\$5.13
317	14-Jul-12	19	6	\$22.40	Yes	\$27.48	\$5.08
318	14-Jul-12	19	7	\$22.42	Yes	\$27.48	\$5.06
319	14-Jul-12	19	8	\$22.65	Yes	\$27.48	\$4.83
320	14-Jul-12	19	9	\$22.65	Yes	\$27.48	\$4.83
321	14-Jul-12	19	10	\$22.59	Yes	\$27.48	\$4.89
322	14-Jul-12	19	11	\$22.56	Yes	\$27.48	\$4.92
323	14-Jul-12	19	12	\$21.20	Yes	\$27.48	\$6.28
324	14-Jul-12	20	1	\$21.16	Yes	\$27.48	\$6.32
325	14-Jul-12	20	2	\$20.83	Yes	\$27.48	\$6.65
326	14-Jul-12	20	3	\$20.26	Yes	\$27.48	\$7.22
327	14-Jul-12	20	4	\$20.20	Yes	\$27.48	\$7.28
328	14-Jul-12	20	5	\$20.20	Yes	\$27.48	\$7.28
329	14-Jul-12	20	6	\$20.20	Yes	\$27.48	\$7.28
330	14-Jul-12	20	7	\$20.16	Yes	\$27.48	\$7.32
331	14-Jul-12	20	8	\$20.19	Yes	\$27.48	\$7.29
332	14-Jul-12	20	9	\$20.05	Yes	\$27.48	\$7.43
333	14-Jul-12	20	10	\$17.10	Yes	\$27.48	\$10.38
334	14-Jul-12	20	11	\$17.30	Yes	\$27.48	\$10.18
335	14-Jul-12	20	12	\$17.60	Yes	\$27.48	\$9.88
336	14-Jul-12	21	1	\$17.13	Yes	\$27.48	\$10.35
337	14-Jul-12	21	2	\$16.78	Yes	\$27.48	\$10.70
338	14-Jul-12	21	3	\$17.03	Yes	\$27.48	\$10.45
339	14-Jul-12	21	4	\$19.80	Yes	\$27.48	\$7.68
340	14-Jul-12	21	5	\$19.84	Yes	\$27.48	\$7.64
341	14-Jul-12	21	6	\$19.84	Yes	\$27.48	\$7.64
342	14-Jul-12	21	7	\$19.85	Yes	\$27.48	\$7.63
343	14-Jul-12	21	8	\$19.95	Yes	\$27.48	\$7.53
344	14-Jul-12	21	9	\$19.95	Yes	\$27.48	\$7.53
345	14-Jul-12	21	10	\$20.00	Yes	\$27.48	\$7.48
346	14-Jul-12	21	11	\$19.97	Yes	\$27.48	\$7.51
347	14-Jul-12	21	12	\$19.95	Yes	\$27.48	\$7.53
348	14-Jul-12	22	1	\$18.86	Yes	\$27.48	\$8.62
349	14-Jul-12	22	2	\$17.91	Yes	\$27.48	\$9.57
350	14-Jul-12	22	3	\$17.53	Yes	\$27.48	\$9.95
351	14-Jul-12	22	4	\$17.91	Yes	\$27.48	\$9.57
352	14-Jul-12	22	5	\$19.45	Yes	\$27.48	\$8.03
353	14-Jul-12	22	6	\$19.45	Yes	\$27.48	\$8.03
354	14-Jul-12	22	7	\$17.82	Yes	\$27.48	\$9.66
355	14-Jul-12	22	8	\$16.71	Yes	\$27.48	\$10.77
356	14-Jul-12	22	9	\$16.56	Yes	\$27.48	\$10.92
357	14-Jul-12	22	10	\$13.18	Yes	\$27.48	\$14.30

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
358	14-Jul-12	22	11	\$16.33	Yes	\$27.48	\$11.15
359	14-Jul-12	22	12	\$9.71	Yes	\$27.48	\$17.77
360	16-Jul-12	18	8	\$20.68	Yes	\$29.52	\$8.84
361	16-Jul-12	18	9	\$20.68	Yes	\$29.52	\$8.84
362	16-Jul-12	18	10	\$18.91	Yes	\$29.52	\$10.61
363	16-Jul-12	18	11	\$19.95	Yes	\$29.52	\$9.57
364	16-Jul-12	18	12	\$18.91	Yes	\$29.52	\$10.61
365	16-Jul-12	19	1	\$19.64	Yes	\$29.52	\$9.88
366	16-Jul-12	19	2	\$17.45	Yes	\$29.52	\$12.07
367	16-Jul-12	19	3	\$16.82	Yes	\$29.52	\$12.70
368	16-Jul-12	19	4	\$15.75	Yes	\$29.52	\$13.77
369	16-Jul-12	19	5	\$16.71	Yes	\$29.52	\$12.81
370	16-Jul-12	19	6	\$15.43	Yes	\$29.52	\$14.09
371	16-Jul-12	19	7	\$15.42	Yes	\$29.52	\$14.10
372	16-Jul-12	19	8	\$15.75	Yes	\$29.52	\$13.77
373	16-Jul-12	19	9	\$13.40	Yes	\$29.52	\$16.12
374	16-Jul-12	19	10	\$15.41	Yes	\$29.52	\$14.11
375	16-Jul-12	19	11	\$13.59	Yes	\$29.52	\$15.93
376	16-Jul-12	19	12	\$13.59	Yes	\$29.52	\$15.93
377	16-Jul-12	20	1	\$15.41	Yes	\$29.52	\$14.11
378	16-Jul-12	20	2	\$13.57	Yes	\$29.52	\$15.95
379	16-Jul-12	20	3	\$13.57	Yes	\$29.52	\$15.95
380	16-Jul-12	20	4	\$15.01	Yes	\$29.52	\$14.51
381	16-Jul-12	20	5	\$16.33	Yes	\$29.52	\$13.19
382	16-Jul-12	20	6	\$15.81	Yes	\$29.52	\$13.71
383	16-Jul-12	20	7	\$16.08	Yes	\$29.52	\$13.44
384	16-Jul-12	20	8	\$16.48	Yes	\$29.52	\$13.04
385	16-Jul-12	20	9	\$15.91	Yes	\$29.52	\$13.61
386	16-Jul-12	20	10	\$15.50	Yes	\$29.52	\$14.02
387	16-Jul-12	20	11	\$13.42	Yes	\$29.52	\$16.10
388	16-Jul-12	20	12	\$13.33	Yes	\$29.52	\$16.19
389	16-Jul-12	21	7	\$20.86	Yes	\$27.48	\$6.62
390	16-Jul-12	21	8	\$21.36	Yes	\$27.48	\$6.12
391	16-Jul-12	21	9	\$20.89	Yes	\$27.48	\$6.59
392	16-Jul-12	21	10	\$19.21	Yes	\$27.48	\$8.27
393	16-Jul-12	21	10	\$19.21	Yes	\$29.52	\$10.31
394	16-Jul-12	21	11	\$20.98	Yes	\$29.52	\$8.54
395	16-Jul-12	21	12	\$19.84	Yes	\$29.52	\$9.68
396	16-Jul-12	22	1	\$22.66	Yes	\$29.52	\$6.86
397	16-Jul-12	22	2	\$22.61	Yes	\$29.52	\$6.91
398	16-Jul-12	22	3	\$21.31	Yes	\$29.52	\$8.21
399	16-Jul-12	22	4	\$21.53	Yes	\$29.52	\$7.99
400	16-Jul-12	22	5	\$22.54	Yes	\$29.52	\$6.98
401	16-Jul-12	22	6	\$17.97	Yes	\$29.52	\$11.55
402	16-Jul-12	22	7	\$18.70	Yes	\$29.52	\$10.82

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
403	16-Jul-12	22	8	\$18.68	Yes	\$29.52	\$10.84
404	16-Jul-12	22	9	\$16.45	Yes	\$29.52	\$13.07
405	16-Jul-12	22	10	\$16.18	Yes	\$29.52	\$13.34
406	16-Jul-12	22	11	\$14.92	Yes	\$29.52	\$14.60
407	16-Jul-12	22	12	\$13.33	Yes	\$27.48	\$14.15
408	16-Jul-12	23	1	\$23.00	Yes	\$27.48	\$4.48
409	16-Jul-12	23	2	\$23.98	Yes	\$27.48	\$3.50
410	16-Jul-12	23	3	\$24.08	Yes	\$27.48	\$3.40
411	16-Jul-12	23	4	\$24.12	Yes	\$27.48	\$3.36
412	16-Jul-12	23	5	\$17.91	Yes	\$27.48	\$9.57
413	16-Jul-12	23	6	\$16.45	Yes	\$27.48	\$11.03
414	16-Jul-12	23	7	\$16.25	Yes	\$27.48	\$11.23
415	16-Jul-12	23	8	\$12.86	Yes	\$27.48	\$14.62
416	16-Jul-12	23	9	\$9.69	Yes	\$27.48	\$17.79
417	16-Jul-12	23	10	\$10.21	Yes	\$27.48	\$17.27
418	16-Jul-12	23	11	\$10.21	Yes	\$27.48	\$17.27
419	16-Jul-12	23	12	\$12.84	Yes	\$27.48	\$14.64
420	17-Jul-12	11	7	\$23.13	No	\$25.50	\$2.37
421	17-Jul-12	11	8	-\$48.41	No	\$25.50	\$73.91
422	17-Jul-12	11	9	-\$48.49	No	\$25.50	\$73.99
423	17-Jul-12	11	10	\$32.95	No	\$25.50	-\$7.45
424	17-Jul-12	11	11	\$30.43	No	\$25.50	-\$4.93
425	17-Jul-12	11	12	\$33.54	No	\$25.50	-\$8.04
426	17-Jul-12	12	1	\$28.64	No	\$25.50	-\$3.14
427	17-Jul-12	12	2	\$30.41	No	\$25.50	-\$4.91
428	17-Jul-12	12	3	\$39.77	No	\$25.50	-\$14.27
429	17-Jul-12	12	4	\$36.02	No	\$25.50	-\$10.52
430	17-Jul-12	12	5	\$28.70	No	\$25.50	-\$3.20
431	17-Jul-12	12	6	\$28.63	No	\$25.50	-\$3.13
432	20-Jul-12	22	1	\$25.20	Yes	\$25.50	\$0.30
433	20-Jul-12	22	2	\$24.37	Yes	\$25.50	\$1.13
434	20-Jul-12	22	3	\$23.16	Yes	\$25.50	\$2.34
435	20-Jul-12	22	4	\$20.73	Yes	\$25.50	\$4.77
436	20-Jul-12	22	5	\$19.51	Yes	\$25.50	\$5.99
437	20-Jul-12	22	6	\$21.23	Yes	\$25.50	\$4.27
438	20-Jul-12	22	7	\$21.10	Yes	\$25.50	\$4.40
439	20-Jul-12	22	8	\$21.10	Yes	\$25.50	\$4.40
440	20-Jul-12	22	9	\$21.21	Yes	\$25.50	\$4.29
441	20-Jul-12	22	10	\$19.33	Yes	\$25.50	\$6.17
442	20-Jul-12	22	10	\$19.33	Yes	\$27.48	\$8.15
443	20-Jul-12	22	11	\$19.07	Yes	\$25.50	\$6.43
444	20-Jul-12	22	11	\$19.07	Yes	\$27.48	\$8.41
445	20-Jul-12	22	12	\$17.11	Yes	\$25.50	\$8.39
446	20-Jul-12	22	12	\$17.11	Yes	\$27.48	\$10.37
447	20-Jul-12	23	1	\$23.16	Yes	\$27.48	\$4.32

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
448	20-Jul-12	23	2	\$23.09	Yes	\$27.48	\$4.39
449	20-Jul-12	23	3	\$23.19	Yes	\$27.48	\$4.29
450	20-Jul-12	23	4	\$21.03	Yes	\$27.48	\$6.45
451	20-Jul-12	23	5	\$21.58	Yes	\$27.48	\$5.90
452	20-Jul-12	23	6	\$21.03	Yes	\$27.48	\$6.45
453	20-Jul-12	23	7	\$20.78	Yes	\$27.48	\$6.70
454	20-Jul-12	23	8	\$16.66	Yes	\$27.48	\$10.82
455	20-Jul-12	23	9	\$16.66	Yes	\$27.48	\$10.82
456	20-Jul-12	23	10	\$16.85	Yes	\$27.48	\$10.63
457	20-Jul-12	23	11	\$16.65	Yes	\$25.50	\$8.85
458	20-Jul-12	23	11	\$16.65	Yes	\$27.48	\$10.83
459	20-Jul-12	23	12	\$10.90	Yes	\$25.50	\$14.60
460	20-Jul-12	23	12	\$10.90	Yes	\$27.48	\$16.58
461	20-Jul-12	24	3	\$27.97	Yes	\$25.50	-\$2.47
462	20-Jul-12	24	4	\$27.92	Yes	\$25.50	-\$2.42
463	20-Jul-12	24	5	\$27.66	Yes	\$25.50	-\$2.16
464	20-Jul-12	24	6	\$25.77	Yes	\$25.50	-\$0.27
465	20-Jul-12	24	7	\$24.53	Yes	\$25.50	\$0.97
466	20-Jul-12	24	8	\$22.97	Yes	\$25.50	\$2.53
467	20-Jul-12	24	9	\$21.40	Yes	\$25.50	\$4.10
468	20-Jul-12	24	10	\$22.86	Yes	\$25.50	\$2.64
469	20-Jul-12	24	11	\$22.87	Yes	\$25.50	\$2.63
470	20-Jul-12	24	12	\$20.45	Yes	\$25.50	\$5.05
471	21-Jul-12	11	6	\$24.13	Yes	\$27.48	\$3.35
472	21-Jul-12	11	7	\$24.35	Yes	\$27.48	\$3.13
473	21-Jul-12	11	8	\$24.24	Yes	\$27.48	\$3.24
474	21-Jul-12	11	9	\$24.36	Yes	\$27.48	\$3.12
475	21-Jul-12	11	10	\$26.11	Yes	\$27.48	\$1.37
476	21-Jul-12	11	11	\$26.67	Yes	\$27.48	\$0.81
477	21-Jul-12	11	12	\$27.36	Yes	\$27.48	\$0.12
478	21-Jul-12	12	1	\$27.73	Yes	\$27.48	-\$0.25
479	21-Jul-12	12	2	\$28.76	Yes	\$27.48	-\$1.28
480	21-Jul-12	12	3	\$29.15	Yes	\$27.48	-\$1.67
481	21-Jul-12	12	4	\$29.93	Yes	\$27.48	-\$2.45
482	21-Jul-12	12	5	\$27.81	Yes	\$27.48	-\$0.33
483	21-Jul-12	12	6	\$26.82	Yes	\$27.48	\$0.66
484	21-Jul-12	12	7	\$27.27	Yes	\$27.48	\$0.21
485	21-Jul-12	12	8	\$29.05	Yes	\$27.48	-\$1.57
486	21-Jul-12	12	9	\$30.91	Yes	\$27.48	-\$3.43
487	21-Jul-12	12	10	\$30.04	Yes	\$27.48	-\$2.56
488	21-Jul-12	12	11	\$30.22	Yes	\$27.48	-\$2.74
489	21-Jul-12	12	12	\$31.27	Yes	\$27.48	-\$3.79
490	21-Jul-12	13	1	\$28.80	Yes	\$27.48	-\$1.32
491	21-Jul-12	13	2	\$29.48	Yes	\$27.48	-\$2.00
492	21-Jul-12	13	3	\$28.27	Yes	\$27.48	-\$0.79

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
493	21-Jul-12	13	4	\$32.29	Yes	\$27.48	-\$4.81
494	21-Jul-12	13	5	\$32.29	Yes	\$27.48	-\$4.81
495	21-Jul-12	13	6	\$32.29	Yes	\$27.48	-\$4.81
496	21-Jul-12	13	7	\$31.77	Yes	\$27.48	-\$4.29
497	21-Jul-12	13	8	\$33.73	Yes	\$27.48	-\$6.25
498	21-Jul-12	13	9	\$40.55	Yes	\$27.48	-\$13.07
499	21-Jul-12	13	10	\$73.33	Yes	\$27.48	-\$45.85
500	21-Jul-12	13	11	\$131.35	Yes	\$27.48	-\$103.87
501	21-Jul-12	13	12	\$1,011.90	Yes	\$27.48	-\$984.42
502	21-Jul-12	14	1	\$33.85	Yes	\$27.48	-\$6.37
503	21-Jul-12	14	2	\$30.66	Yes	\$27.48	-\$3.18
504	21-Jul-12	14	3	\$29.57	Yes	\$27.48	-\$2.09
505	21-Jul-12	14	4	\$28.11	Yes	\$27.48	-\$0.63
506	21-Jul-12	14	5	\$29.36	Yes	\$27.48	-\$1.88
507	21-Jul-12	14	6	\$29.36	Yes	\$27.48	-\$1.88
508	21-Jul-12	14	7	\$36.31	Yes	\$27.48	-\$8.83
509	21-Jul-12	14	8	\$36.35	Yes	\$27.48	-\$8.87
510	21-Jul-12	14	9	\$41.64	Yes	\$27.48	-\$14.16
511	21-Jul-12	14	10	\$36.28	Yes	\$27.48	-\$8.80
512	21-Jul-12	14	11	\$41.58	Yes	\$27.48	-\$14.10
513	21-Jul-12	14	12	\$131.49	Yes	\$27.48	-\$104.01
514	21-Jul-12	15	1	\$36.47	Yes	\$27.48	-\$8.99
515	21-Jul-12	15	2	\$32.07	Yes	\$27.48	-\$4.59
516	21-Jul-12	15	3	\$32.07	Yes	\$27.48	-\$4.59
517	21-Jul-12	15	4	\$58.79	Yes	\$27.48	-\$31.31
518	21-Jul-12	15	5	\$41.35	Yes	\$27.48	-\$13.87
519	21-Jul-12	15	6	\$53.14	Yes	\$27.48	-\$25.66
520	21-Jul-12	15	7	\$49.62	Yes	\$27.48	-\$22.14
521	21-Jul-12	15	8	\$51.20	Yes	\$27.48	-\$23.72
522	21-Jul-12	15	9	\$73.90	Yes	\$27.48	-\$46.42
523	21-Jul-12	15	10	\$51.35	Yes	\$27.48	-\$23.87
524	21-Jul-12	15	11	\$48.82	Yes	\$27.48	-\$21.34
525	21-Jul-12	15	12	\$98.65	Yes	\$27.48	-\$71.17
526	22-Jul-12	23	1	\$26.56	Yes	\$27.48	\$0.92
527	22-Jul-12	23	2	\$23.17	Yes	\$27.48	\$4.31
528	22-Jul-12	23	3	\$13.14	Yes	\$27.48	\$14.34
529	22-Jul-12	23	4	\$7.12	Yes	\$27.48	\$20.37
530	22-Jul-12	23	5	\$7.43	Yes	\$27.48	\$20.05
531	22-Jul-12	23	6	\$6.91	Yes	\$27.48	\$20.57
532	22-Jul-12	23	7	\$2.91	Yes	\$27.48	\$24.57
533	22-Jul-12	23	8	\$6.79	Yes	\$27.48	\$20.69
534	22-Jul-12	23	9	\$1.07	Yes	\$27.48	\$26.41
535	22-Jul-12	23	10	-\$6.76	Yes	\$27.48	\$34.24
536	22-Jul-12	23	11	-\$6.76	Yes	\$27.48	\$34.24
537	22-Jul-12	23	12	-\$11.07	Yes	\$27.48	\$38.55

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
538	22-Jul-12	24	1	-\$11.07	Yes	\$27.48	\$38.55
539	22-Jul-12	24	2	\$28.82	Yes	\$27.48	-\$1.34
540	22-Jul-12	24	3	\$33.55	Yes	\$27.48	-\$6.07
541	22-Jul-12	24	4	\$24.62	Yes	\$27.48	\$2.86
542	22-Jul-12	24	5	\$21.95	Yes	\$27.48	\$5.53
543	22-Jul-12	24	6	\$19.02	Yes	\$27.48	\$8.46
544	22-Jul-12	24	7	\$21.33	Yes	\$27.48	\$6.15
545	22-Jul-12	24	8	\$17.06	Yes	\$27.48	\$10.42
546	22-Jul-12	24	9	\$12.56	Yes	\$27.48	\$14.92
547	22-Jul-12	24	10	\$11.27	Yes	\$27.48	\$16.21
548	22-Jul-12	24	11	\$8.07	Yes	\$27.48	\$19.41
549	22-Jul-12	24	12	\$0.01	Yes	\$27.48	\$27.47
550	23-Jul-12	1	1	\$24.15	Yes	\$27.48	\$3.33
551	23-Jul-12	1	2	\$23.31	Yes	\$27.48	\$4.17
552	23-Jul-12	1	3	\$23.31	Yes	\$27.48	\$4.17
553	23-Jul-12	1	4	\$23.12	Yes	\$27.48	\$4.36
554	23-Jul-12	1	5	\$22.48	Yes	\$27.48	\$5.00
555	23-Jul-12	1	6	\$22.20	Yes	\$27.48	\$5.28
556	23-Jul-12	1	7	\$13.14	Yes	\$27.48	\$14.34
557	23-Jul-12	1	8	\$12.56	Yes	\$27.48	\$14.92
558	23-Jul-12	1	9	\$13.08	Yes	\$27.48	\$14.40
559	23-Jul-12	1	10	\$18.05	Yes	\$27.48	\$9.43
560	23-Jul-12	1	11	\$21.30	Yes	\$27.48	\$6.18
561	23-Jul-12	1	12	\$18.60	Yes	\$27.48	\$8.88
562	23-Jul-12	2	1	\$23.57	Yes	\$27.48	\$3.91
563	23-Jul-12	2	2	\$23.55	Yes	\$27.48	\$3.93
564	23-Jul-12	2	3	\$28.59	Yes	\$27.48	-\$1.11
565	23-Jul-12	2	4	\$24.28	Yes	\$27.48	\$3.20
566	23-Jul-12	2	5	\$24.18	Yes	\$27.48	\$3.30
567	23-Jul-12	2	6	\$24.18	Yes	\$27.48	\$3.30
568	23-Jul-12	22	8	\$20.19	Yes	\$27.48	\$7.29
569	23-Jul-12	22	9	\$17.21	Yes	\$27.48	\$10.27
570	23-Jul-12	22	10	\$16.37	Yes	\$27.48	\$11.11
571	23-Jul-12	22	10	\$16.37	Yes	\$31.29	\$14.92
572	23-Jul-12	22	11	\$13.27	Yes	\$27.48	\$14.21
573	23-Jul-12	22	11	\$13.27	Yes	\$31.29	\$18.02
574	23-Jul-12	22	12	\$13.12	Yes	\$27.48	\$14.36
575	23-Jul-12	22	12	\$13.12	Yes	\$31.29	\$18.17
576	23-Jul-12	23	1	\$28.64	Yes	\$29.52	\$0.88
577	23-Jul-12	23	2	\$25.65	Yes	\$29.52	\$3.87
578	23-Jul-12	23	3	\$26.78	Yes	\$27.48	\$0.70
579	23-Jul-12	23	3	\$26.78	Yes	\$29.52	\$2.74
580	23-Jul-12	23	4	\$23.35	Yes	\$27.48	\$4.13
581	23-Jul-12	23	4	\$23.35	Yes	\$29.52	\$6.17
582	23-Jul-12	23	5	\$23.16	Yes	\$27.48	\$4.32

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
583	23-Jul-12	23	5	\$23.16	Yes	\$29.52	\$6.36
584	23-Jul-12	23	6	\$21.45	Yes	\$27.48	\$6.03
585	23-Jul-12	23	6	\$21.45	Yes	\$29.52	\$8.07
586	23-Jul-12	23	7	\$20.85	Yes	\$27.48	\$6.63
587	23-Jul-12	23	7	\$20.85	Yes	\$29.52	\$8.67
588	23-Jul-12	23	8	\$20.87	Yes	\$27.48	\$6.61
589	23-Jul-12	23	8	\$20.87	Yes	\$29.52	\$8.65
590	23-Jul-12	23	9	\$17.64	Yes	\$27.48	\$9.84
591	23-Jul-12	23	9	\$17.64	Yes	\$29.52	\$11.88
592	23-Jul-12	23	10	\$13.17	Yes	\$27.48	\$14.31
593	23-Jul-12	23	10	\$13.17	Yes	\$29.52	\$16.35
594	23-Jul-12	23	11	\$13.14	Yes	\$27.48	\$14.34
595	23-Jul-12	23	11	\$13.14	Yes	\$29.52	\$16.38
596	23-Jul-12	23	12	\$11.22	Yes	\$27.48	\$16.26
597	23-Jul-12	23	12	\$11.22	Yes	\$29.52	\$18.30
598	23-Jul-12	24	1	\$13.53	Yes	\$27.48	\$13.95
599	23-Jul-12	24	2	\$22.63	Yes	\$27.48	\$4.85
600	23-Jul-12	24	3	\$21.75	Yes	\$27.48	\$5.73
601	23-Jul-12	24	4	\$23.34	Yes	\$27.48	\$4.14
602	23-Jul-12	24	5	\$21.51	Yes	\$27.48	\$5.97
603	23-Jul-12	24	6	\$21.54	Yes	\$27.48	\$5.94
604	23-Jul-12	24	7	\$20.66	Yes	\$27.48	\$6.82
605	23-Jul-12	24	8	\$15.61	Yes	\$27.48	\$11.87
606	24-Jul-12	21	1	\$21.92	Yes	\$25.50	\$3.58
607	24-Jul-12	21	2	\$21.73	Yes	\$25.50	\$3.77
608	24-Jul-12	21	3	\$22.41	Yes	\$25.50	\$3.09
609	24-Jul-12	21	4	\$21.91	Yes	\$25.50	\$3.59
610	24-Jul-12	21	4	\$21.91	Yes	\$27.48	\$5.57
611	24-Jul-12	21	5	\$22.27	Yes	\$25.50	\$3.23
612	24-Jul-12	21	5	\$22.27	Yes	\$27.48	\$5.21
613	24-Jul-12	21	6	\$22.29	Yes	\$25.50	\$3.21
614	24-Jul-12	21	6	\$22.29	Yes	\$27.48	\$5.19
615	24-Jul-12	21	7	\$22.31	Yes	\$25.50	\$3.19
616	24-Jul-12	21	7	\$22.31	Yes	\$27.48	\$5.17
617	24-Jul-12	21	8	\$22.96	Yes	\$25.50	\$2.54
618	24-Jul-12	21	8	\$22.96	Yes	\$27.48	\$4.52
619	24-Jul-12	21	8	\$22.96	Yes	\$29.52	\$6.56
620	24-Jul-12	21	9	\$21.96	Yes	\$25.50	\$3.54
621	24-Jul-12	21	9	\$21.96	Yes	\$27.48	\$5.52
622	24-Jul-12	21	9	\$21.96	Yes	\$29.52	\$7.56
623	24-Jul-12	21	10	\$21.48	Yes	\$25.50	\$4.02
624	24-Jul-12	21	10	\$21.48	Yes	\$27.48	\$6.00
625	24-Jul-12	21	10	\$21.48	Yes	\$29.52	\$8.04
626	24-Jul-12	21	11	\$21.93	Yes	\$25.50	\$3.57
627	24-Jul-12	21	11	\$21.93	Yes	\$27.48	\$5.55

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
628	24-Jul-12	21	11	\$21.93	Yes	\$29.52	\$7.59
629	24-Jul-12	21	12	\$20.60	Yes	\$25.50	\$4.90
630	24-Jul-12	21	12	\$20.60	Yes	\$27.48	\$6.88
631	24-Jul-12	21	12	\$20.60	Yes	\$29.52	\$8.92
632	24-Jul-12	22	1	\$23.30	Yes	\$29.52	\$6.22
633	24-Jul-12	22	2	\$21.79	Yes	\$29.52	\$7.73
634	24-Jul-12	22	3	\$21.79	Yes	\$29.52	\$7.73
635	24-Jul-12	22	4	\$20.28	Yes	\$27.48	\$7.20
636	24-Jul-12	22	4	\$20.28	Yes	\$29.52	\$9.24
637	24-Jul-12	22	5	\$20.30	Yes	\$27.48	\$7.18
638	24-Jul-12	22	5	\$20.30	Yes	\$29.52	\$9.22
639	24-Jul-12	22	6	\$18.13	Yes	\$27.48	\$9.35
640	24-Jul-12	22	6	\$18.13	Yes	\$29.52	\$11.39
641	24-Jul-12	22	7	\$17.11	Yes	\$27.48	\$10.37
642	24-Jul-12	22	7	\$17.11	Yes	\$29.52	\$12.41
643	24-Jul-12	22	8	\$16.47	Yes	\$27.48	\$11.01
644	24-Jul-12	22	8	\$16.47	Yes	\$29.52	\$13.05
645	24-Jul-12	22	9	\$15.68	Yes	\$27.48	\$11.80
646	24-Jul-12	22	9	\$15.68	Yes	\$29.52	\$13.84
647	24-Jul-12	22	10	\$13.97	Yes	\$27.48	\$13.51
648	24-Jul-12	22	10	\$13.97	Yes	\$29.52	\$15.55
649	24-Jul-12	22	11	\$14.30	Yes	\$27.48	\$13.18
650	24-Jul-12	22	11	\$14.30	Yes	\$29.52	\$15.22
651	24-Jul-12	22	12	\$13.97	Yes	\$27.48	\$13.51
652	24-Jul-12	22	12	\$13.97	Yes	\$29.52	\$15.55
653	24-Jul-12	23	1	\$30.36	Yes	\$25.50	-\$4.86
654	24-Jul-12	23	2	\$25.77	Yes	\$25.50	-\$0.27
655	24-Jul-12	23	3	\$26.63	Yes	\$25.50	-\$1.13
656	24-Jul-12	23	4	\$24.71	Yes	\$25.50	\$0.79
657	24-Jul-12	23	5	\$24.68	Yes	\$25.50	\$0.82
658	24-Jul-12	23	6	\$24.58	Yes	\$25.50	\$0.92
659	24-Jul-12	23	7	\$23.47	Yes	\$25.50	\$2.03
660	24-Jul-12	23	8	\$21.64	Yes	\$25.50	\$3.86
661	24-Jul-12	23	9	\$21.64	Yes	\$25.50	\$3.86
662	24-Jul-12	23	10	\$21.57	Yes	\$25.50	\$3.93
663	24-Jul-12	23	11	\$20.29	Yes	\$25.50	\$5.21
664	24-Jul-12	23	12	\$13.76	Yes	\$25.50	\$11.74
665	24-Jul-12	24	1	\$20.70	Yes	\$25.50	\$4.80
666	24-Jul-12	24	2	\$24.67	Yes	\$25.50	\$0.83
667	24-Jul-12	24	3	\$25.35	Yes	\$25.50	\$0.15
668	26-Jul-12	17	4	\$24.00	Yes	\$27.48	\$3.48
669	26-Jul-12	17	5	\$24.00	Yes	\$27.48	\$3.48
670	26-Jul-12	17	6	\$24.00	Yes	\$27.48	\$3.48
671	26-Jul-12	17	7	\$24.07	Yes	\$27.48	\$3.41
672	26-Jul-12	17	8	\$23.92	Yes	\$27.48	\$3.56

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
673	26-Jul-12	17	9	\$23.92	Yes	\$27.48	\$3.56
674	26-Jul-12	17	10	\$23.67	Yes	\$27.48	\$3.81
675	26-Jul-12	17	11	\$23.98	Yes	\$27.48	\$3.50
676	26-Jul-12	17	11	\$23.98	Yes	\$31.29	\$7.31
677	26-Jul-12	17	12	\$23.98	Yes	\$27.48	\$3.50
678	26-Jul-12	17	12	\$23.98	Yes	\$31.29	\$7.31
679	26-Jul-12	18	1	\$23.91	Yes	\$31.29	\$7.38
680	26-Jul-12	18	2	\$24.29	Yes	\$31.29	\$7.00
681	26-Jul-12	18	3	\$24.29	Yes	\$31.29	\$7.00
682	26-Jul-12	18	4	\$24.15	Yes	\$31.29	\$7.14
683	26-Jul-12	18	5	\$23.86	Yes	\$31.29	\$7.43
684	26-Jul-12	18	6	\$24.24	Yes	\$31.29	\$7.05
685	26-Jul-12	18	7	\$24.14	Yes	\$31.29	\$7.15
686	26-Jul-12	18	8	\$24.14	Yes	\$31.29	\$7.15
687	26-Jul-12	18	9	\$23.78	Yes	\$31.29	\$7.51
688	26-Jul-12	18	10	\$23.61	Yes	\$31.29	\$7.68
689	26-Jul-12	18	11	\$23.61	Yes	\$31.29	\$7.68
690	26-Jul-12	18	12	\$23.07	Yes	\$31.29	\$8.22
691	26-Jul-12	19	1	\$23.50	Yes	\$31.29	\$7.79
692	26-Jul-12	19	2	\$21.94	Yes	\$31.29	\$9.35
693	26-Jul-12	19	3	\$21.94	Yes	\$31.29	\$9.35
694	26-Jul-12	19	4	\$22.69	Yes	\$31.29	\$8.60
695	26-Jul-12	19	5	\$21.13	Yes	\$31.29	\$10.16
696	26-Jul-12	19	6	\$22.10	Yes	\$31.29	\$9.19
697	26-Jul-12	19	7	\$22.00	Yes	\$31.29	\$9.29
698	26-Jul-12	19	8	\$21.24	Yes	\$31.29	\$10.05
699	26-Jul-12	19	9	\$21.30	Yes	\$31.29	\$9.99
700	26-Jul-12	19	10	\$21.41	Yes	\$31.29	\$9.88
701	26-Jul-12	19	11	\$21.40	Yes	\$31.29	\$9.89
702	26-Jul-12	19	12	\$21.37	Yes	\$31.29	\$9.92
703	26-Jul-12	20	1	\$21.98	Yes	\$31.29	\$9.31
704	26-Jul-12	20	2	\$21.24	Yes	\$31.29	\$10.05
705	26-Jul-12	20	3	\$21.24	Yes	\$31.29	\$10.05
706	26-Jul-12	20	4	\$21.19	Yes	\$31.29	\$10.10
707	26-Jul-12	20	5	\$21.19	Yes	\$31.29	\$10.10
708	26-Jul-12	20	6	\$21.18	Yes	\$27.48	\$6.30
709	26-Jul-12	20	6	\$21.18	Yes	\$31.29	\$10.11
710	26-Jul-12	20	7	\$21.19	Yes	\$27.48	\$6.29
711	26-Jul-12	20	7	\$21.19	Yes	\$31.29	\$10.10
712	26-Jul-12	20	8	\$22.08	Yes	\$27.48	\$5.40
713	26-Jul-12	20	8	\$22.08	Yes	\$31.29	\$9.21
714	26-Jul-12	20	9	\$21.48	Yes	\$27.48	\$6.00
715	26-Jul-12	20	9	\$21.48	Yes	\$31.29	\$9.81
716	26-Jul-12	20	10	\$21.23	Yes	\$27.48	\$6.25
717	26-Jul-12	20	10	\$21.23	Yes	\$31.29	\$10.06

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718	26-Jul-12	20	11	\$21.23	Yes	\$27.48	\$6.25
719	26-Jul-12	20	11	\$21.23	Yes	\$31.29	\$10.06
720	26-Jul-12	20	12	\$21.63	Yes	\$27.48	\$5.85
721	26-Jul-12	20	12	\$21.63	Yes	\$31.29	\$9.66
722	26-Jul-12	21	1	\$22.90	Yes	\$31.29	\$8.39
723	26-Jul-12	21	2	\$22.83	Yes	\$31.29	\$8.46
724	26-Jul-12	21	3	\$22.84	Yes	\$31.29	\$8.45
725	26-Jul-12	21	4	\$24.34	Yes	\$31.29	\$6.95
726	26-Jul-12	21	5	\$24.34	Yes	\$31.29	\$6.95
727	26-Jul-12	21	6	\$24.34	Yes	\$31.29	\$6.95
728	26-Jul-12	21	7	\$24.40	Yes	\$31.29	\$6.89
729	26-Jul-12	21	7	\$24.40	Yes	\$34.37	\$9.97
730	26-Jul-12	21	8	\$24.47	Yes	\$31.29	\$6.82
731	26-Jul-12	21	8	\$24.47	Yes	\$34.37	\$9.90
732	26-Jul-12	21	9	\$24.47	Yes	\$31.29	\$6.82
733	26-Jul-12	21	9	\$24.47	Yes	\$34.37	\$9.90
734	26-Jul-12	21	10	\$24.43	Yes	\$31.29	\$6.86
735	26-Jul-12	21	10	\$24.43	Yes	\$34.37	\$9.94
736	26-Jul-12	21	11	\$24.43	Yes	\$31.29	\$6.86
737	26-Jul-12	21	11	\$24.43	Yes	\$34.37	\$9.94
738	26-Jul-12	21	12	\$23.94	Yes	\$31.29	\$7.35
739	26-Jul-12	21	12	\$23.94	Yes	\$34.37	\$10.43
740	26-Jul-12	22	1	\$24.97	Yes	\$31.29	\$6.32
741	26-Jul-12	22	2	\$24.88	Yes	\$29.52	\$4.64
742	26-Jul-12	22	2	\$24.88	Yes	\$31.29	\$6.41
743	26-Jul-12	22	3	\$25.07	Yes	\$29.52	\$4.45
744	26-Jul-12	22	3	\$25.07	Yes	\$31.29	\$6.22
745	26-Jul-12	22	4	\$24.87	Yes	\$29.52	\$4.65
746	26-Jul-12	22	4	\$24.87	Yes	\$31.29	\$6.42
747	26-Jul-12	22	5	\$24.30	Yes	\$29.52	\$5.22
748	26-Jul-12	22	5	\$24.30	Yes	\$31.29	\$6.99
749	26-Jul-12	22	6	\$24.17	Yes	\$27.48	\$3.31
750	26-Jul-12	22	6	\$24.17	Yes	\$31.29	\$7.12
751	26-Jul-12	22	7	\$23.33	Yes	\$27.48	\$4.15
752	26-Jul-12	22	7	\$23.33	Yes	\$31.29	\$7.96
753	26-Jul-12	22	8	\$23.00	Yes	\$27.48	\$4.48
754	26-Jul-12	22	8	\$23.00	Yes	\$31.29	\$8.29
755	26-Jul-12	22	9	\$23.00	Yes	\$27.48	\$4.48
756	26-Jul-12	22	9	\$23.00	Yes	\$31.29	\$8.29
757	26-Jul-12	22	10	\$19.96	Yes	\$27.48	\$7.52
758	26-Jul-12	22	10	\$19.96	Yes	\$31.29	\$11.33
759	26-Jul-12	22	11	\$19.65	Yes	\$27.48	\$7.83
760	26-Jul-12	22	11	\$19.65	Yes	\$31.29	\$11.64
761	26-Jul-12	22	12	\$16.97	Yes	\$27.48	\$10.51
762	26-Jul-12	22	12	\$16.97	Yes	\$31.29	\$14.32

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
763	26-Jul-12	23	1	\$25.00	Yes	\$31.29	\$6.29
764	26-Jul-12	23	2	\$23.74	Yes	\$27.48	\$3.74
765	26-Jul-12	23	2	\$23.74	Yes	\$31.29	\$7.55
766	26-Jul-12	23	3	\$24.98	Yes	\$27.48	\$2.50
767	26-Jul-12	23	3	\$24.98	Yes	\$31.29	\$6.31
768	26-Jul-12	23	4	\$24.80	Yes	\$27.48	\$2.68
769	26-Jul-12	23	4	\$24.80	Yes	\$31.29	\$6.49
770	26-Jul-12	23	5	\$24.85	Yes	\$27.48	\$2.63
771	26-Jul-12	23	5	\$24.85	Yes	\$31.29	\$6.44
772	26-Jul-12	23	6	\$24.80	Yes	\$27.48	\$2.68
773	26-Jul-12	23	6	\$24.80	Yes	\$31.29	\$6.49
774	26-Jul-12	23	7	\$24.67	Yes	\$25.50	\$0.83
775	26-Jul-12	23	7	\$24.67	Yes	\$27.48	\$2.81
776	26-Jul-12	23	7	\$24.67	Yes	\$31.29	\$6.62
777	26-Jul-12	23	8	\$24.02	Yes	\$25.50	\$1.48
778	26-Jul-12	23	8	\$24.02	Yes	\$27.48	\$3.46
779	26-Jul-12	23	8	\$24.02	Yes	\$31.29	\$7.27
780	26-Jul-12	23	9	\$22.34	Yes	\$25.50	\$3.16
781	26-Jul-12	23	9	\$22.34	Yes	\$27.48	\$5.14
782	26-Jul-12	23	9	\$22.34	Yes	\$31.29	\$8.95
783	26-Jul-12	23	10	\$20.03	Yes	\$25.50	\$5.47
784	26-Jul-12	23	10	\$20.03	Yes	\$27.48	\$7.45
785	26-Jul-12	23	10	\$20.03	Yes	\$31.29	\$11.26
786	26-Jul-12	23	11	\$20.03	Yes	\$25.50	\$5.47
787	26-Jul-12	23	11	\$20.03	Yes	\$27.48	\$7.45
788	26-Jul-12	23	11	\$20.03	Yes	\$31.29	\$11.26
789	26-Jul-12	23	12	\$17.24	Yes	\$25.50	\$8.26
790	26-Jul-12	23	12	\$17.24	Yes	\$27.48	\$10.24
791	26-Jul-12	23	12	\$17.24	Yes	\$31.29	\$14.05

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

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	9-Jul-12	3	1	-\$31.12	Yes	\$1,000.00	\$1,031.12
2	9-Jul-12	3	2	-\$31.12	Yes	\$1,000.00	\$1,031.12
3	9-Jul-12	3	3	-\$31.19	Yes	\$1,000.00	\$1,031.19
4	9-Jul-12	3	4	-\$31.25	Yes	\$1,000.00	\$1,031.25
5	9-Jul-12	3	5	-\$31.25	Yes	\$1,000.00	\$1,031.25
6	9-Jul-12	3	6	-\$31.25	Yes	\$1,000.00	\$1,031.25
7	9-Jul-12	3	7	-\$31.36	Yes	\$1,000.00	\$1,031.36
8	9-Jul-12	3	8	-\$30.28	Yes	\$1,000.00	\$1,030.28
9	9-Jul-12	3	9	-\$30.28	Yes	\$1,000.00	\$1,030.28
10	9-Jul-12	3	10	-\$30.36	Yes	\$1,000.00	\$1,030.36
11	9-Jul-12	3	11	-\$30.39	Yes	\$1,000.00	\$1,030.39
12	9-Jul-12	3	12	-\$30.38	Yes	\$1,000.00	\$1,030.38
13	9-Jul-12	4	1	-\$30.53	Yes	\$1,000.00	\$1,030.53
14	9-Jul-12	4	2	-\$30.52	Yes	\$1,000.00	\$1,030.52
15	9-Jul-12	4	3	-\$30.53	Yes	\$1,000.00	\$1,030.53
16	9-Jul-12	4	4	-\$31.20	Yes	\$1,000.00	\$1,031.20
17	9-Jul-12	4	5	-\$31.23	Yes	\$1,000.00	\$1,031.23
18	9-Jul-12	4	6	-\$31.20	Yes	\$1,000.00	\$1,031.20
19	9-Jul-12	4	7	-\$31.41	Yes	\$1,000.00	\$1,031.41
20	9-Jul-12	4	8	-\$30.55	Yes	\$1,000.00	\$1,030.55
21	9-Jul-12	4	9	-\$30.56	Yes	\$1,000.00	\$1,030.56
22	9-Jul-12	4	10	-\$30.66	Yes	\$1,000.00	\$1,030.66
23	9-Jul-12	4	11	-\$30.68	Yes	\$1,000.00	\$1,030.68
24	9-Jul-12	4	12	-\$30.66	Yes	\$1,000.00	\$1,030.66
25	9-Jul-12	5	1	-\$30.63	Yes	\$1,000.00	\$1,030.63
26	9-Jul-12	5	2	-\$30.62	Yes	\$1,000.00	\$1,030.62
27	9-Jul-12	5	3	-\$30.63	Yes	\$1,000.00	\$1,030.63
28	9-Jul-12	5	4	-\$30.77	Yes	\$1,000.00	\$1,030.77
29	9-Jul-12	5	5	-\$30.58	Yes	\$1,000.00	\$1,030.58
30	9-Jul-12	5	6	-\$10.50	Yes	\$1,000.00	\$1,010.50
31	9-Jul-12	5	7	\$5.01	Yes	\$1,000.00	\$994.99
32	9-Jul-12	5	8	\$10.02	Yes	\$1,000.00	\$989.98
33	9-Jul-12	5	9	\$20.07	Yes	\$1,000.00	\$979.93
34	9-Jul-12	5	10	\$20.64	Yes	\$1,000.00	\$979.36
35	9-Jul-12	5	11	\$20.64	Yes	\$1,000.00	\$979.36
36	9-Jul-12	5	12	\$20.08	Yes	\$1,000.00	\$979.92
37	9-Jul-12	6	1	\$0.01	Yes	\$1,000.00	\$999.99
38	9-Jul-12	6	2	\$4.48	Yes	\$1,000.00	\$995.52

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
39	9-Jul-12	6	3	\$4.48	Yes	\$1,000.00	\$995.52
40	9-Jul-12	6	4	\$10.77	Yes	\$1,000.00	\$989.23
41	9-Jul-12	6	5	\$10.77	Yes	\$1,000.00	\$989.23
42	9-Jul-12	6	6	\$18.05	Yes	\$1,000.00	\$981.95
43	9-Jul-12	6	7	\$20.09	Yes	\$1,000.00	\$979.91
44	9-Jul-12	6	8	\$18.18	Yes	\$1,000.00	\$981.82
45	9-Jul-12	6	9	\$20.10	Yes	\$1,000.00	\$979.90
46	9-Jul-12	6	10	\$20.23	Yes	\$1,000.00	\$979.77
47	9-Jul-12	6	11	\$18.18	Yes	\$1,000.00	\$981.82
48	9-Jul-12	6	12	\$18.18	Yes	\$1,000.00	\$981.82
49	9-Jul-12	7	1	-\$10.58	Yes	\$1,000.00	\$1,010.58
50	9-Jul-12	7	2	-\$31.03	Yes	\$1,000.00	\$1,031.03
51	9-Jul-12	7	3	-\$30.99	Yes	\$1,000.00	\$1,030.99
52	9-Jul-12	7	4	-\$30.99	Yes	\$1,000.00	\$1,030.99
53	9-Jul-12	7	5	-\$30.99	Yes	\$1,000.00	\$1,030.99
54	9-Jul-12	7	6	-\$10.58	Yes	\$1,000.00	\$1,010.58
55	9-Jul-12	7	7	\$3.83	Yes	\$1,000.00	\$996.17
56	9-Jul-12	7	8	\$10.78	Yes	\$1,000.00	\$989.22
57	9-Jul-12	7	9	\$13.99	Yes	\$1,000.00	\$986.01
58	9-Jul-12	7	10	\$20.09	Yes	\$1,000.00	\$979.91
59	9-Jul-12	7	11	\$21.05	Yes	\$1,000.00	\$978.95
60	9-Jul-12	7	12	\$18.23	Yes	\$1,000.00	\$981.77
61	9-Jul-12	8	1	-\$30.62	Yes	\$1,000.00	\$1,030.62
62	9-Jul-12	8	2	-\$30.22	Yes	\$1,000.00	\$1,030.22
63	9-Jul-12	8	3	-\$30.24	Yes	\$1,000.00	\$1,030.24
64	9-Jul-12	8	4	-\$30.79	Yes	\$1,000.00	\$1,030.79
65	9-Jul-12	8	5	-\$30.74	Yes	\$1,000.00	\$1,030.74
66	9-Jul-12	8	6	\$5.05	Yes	\$1,000.00	\$994.95
67	9-Jul-12	8	7	\$20.54	Yes	\$1,000.00	\$979.46
68	9-Jul-12	8	8	\$21.11	Yes	\$1,000.00	\$978.89
69	9-Jul-12	8	9	\$21.43	Yes	\$1,000.00	\$978.57
70	9-Jul-12	8	10	\$20.54	Yes	\$1,000.00	\$979.46
71	9-Jul-12	8	11	\$21.16	Yes	\$1,000.00	\$978.84
72	9-Jul-12	8	12	\$21.16	Yes	\$1,000.00	\$978.84
73	9-Jul-12	9	1	\$4.68	Yes	\$1,000.00	\$995.32
74	9-Jul-12	9	2	\$9.72	Yes	\$1,000.00	\$990.28
75	9-Jul-12	9	3	\$12.48	Yes	\$1,000.00	\$987.52
76	9-Jul-12	9	4	\$20.74	Yes	\$1,000.00	\$979.26
77	9-Jul-12	9	5	\$20.74	Yes	\$1,000.00	\$979.26
78	9-Jul-12	9	6	\$22.70	Yes	\$1,000.00	\$977.30
79	9-Jul-12	9	7	\$22.72	Yes	\$1,000.00	\$977.28
80	9-Jul-12	9	8	\$21.16	Yes	\$1,000.00	\$978.84
81	9-Jul-12	9	9	\$22.79	Yes	\$1,000.00	\$977.21
82	9-Jul-12	9	10	\$12.46	Yes	\$1,000.00	\$987.54
83	9-Jul-12	9	11	\$11.14	Yes	\$1,000.00	\$988.86

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
84	9-Jul-12	9	12	\$22.86	Yes	\$1,000.00	\$977.14
85	9-Jul-12	10	1	\$17.19	Yes	\$1,000.00	\$982.81
86	9-Jul-12	10	2	\$11.86	Yes	\$1,000.00	\$988.14
87	9-Jul-12	10	3	\$12.49	Yes	\$1,000.00	\$987.51
88	9-Jul-12	10	4	\$17.09	Yes	\$1,000.00	\$982.91
89	9-Jul-12	10	5	\$20.10	Yes	\$1,000.00	\$979.90
90	9-Jul-12	10	6	\$20.17	Yes	\$1,000.00	\$979.83
91	9-Jul-12	10	7	\$21.04	Yes	\$1,000.00	\$978.96
92	9-Jul-12	10	8	\$20.16	Yes	\$1,000.00	\$979.84
93	9-Jul-12	10	9	\$21.71	Yes	\$1,000.00	\$978.29
94	9-Jul-12	10	10	\$22.35	Yes	\$1,000.00	\$977.65
95	9-Jul-12	10	11	\$21.45	Yes	\$1,000.00	\$978.55
96	9-Jul-12	10	12	\$22.13	Yes	\$1,000.00	\$977.87
97	9-Jul-12	11	1	\$11.92	Yes	\$1,000.00	\$988.08
98	9-Jul-12	11	2	\$10.04	Yes	\$1,000.00	\$989.96
99	9-Jul-12	11	3	\$11.97	Yes	\$1,000.00	\$988.03
100	9-Jul-12	11	4	\$12.45	Yes	\$1,000.00	\$987.55
101	9-Jul-12	11	5	\$12.97	Yes	\$1,000.00	\$987.03
102	9-Jul-12	11	6	\$15.60	Yes	\$1,000.00	\$984.40
103	9-Jul-12	11	7	\$21.37	Yes	\$1,000.00	\$978.63
104	9-Jul-12	11	8	\$22.71	Yes	\$1,000.00	\$977.29
105	9-Jul-12	11	9	\$22.72	Yes	\$1,000.00	\$977.28
106	9-Jul-12	11	10	\$20.43	Yes	\$1,000.00	\$979.57
107	9-Jul-12	11	11	\$20.36	Yes	\$1,000.00	\$979.64
108	9-Jul-12	11	12	\$21.11	Yes	\$1,000.00	\$978.89
109	9-Jul-12	12	1	\$20.50	Yes	\$1,000.00	\$979.50
110	9-Jul-12	12	2	\$19.61	Yes	\$1,000.00	\$980.39
111	9-Jul-12	12	3	\$20.64	Yes	\$1,000.00	\$979.36
112	9-Jul-12	12	4	\$19.51	Yes	\$1,000.00	\$980.49
113	9-Jul-12	12	5	\$20.40	Yes	\$1,000.00	\$979.60
114	9-Jul-12	12	6	\$20.59	Yes	\$1,000.00	\$979.41
115	9-Jul-12	12	7	\$21.62	Yes	\$1,000.00	\$978.38
116	9-Jul-12	12	8	\$22.77	Yes	\$1,000.00	\$977.23
117	9-Jul-12	12	9	\$22.78	Yes	\$1,000.00	\$977.22
118	9-Jul-12	12	10	\$22.57	Yes	\$1,000.00	\$977.43
119	9-Jul-12	12	11	\$22.63	Yes	\$1,000.00	\$977.37
120	9-Jul-12	12	12	\$22.82	Yes	\$1,000.00	\$977.18
121	9-Jul-12	13	1	\$21.86	Yes	\$1,000.00	\$978.14
122	9-Jul-12	13	2	\$22.76	Yes	\$1,000.00	\$977.24
123	9-Jul-12	13	3	\$23.12	Yes	\$1,000.00	\$976.88
124	9-Jul-12	13	4	\$23.14	Yes	\$1,000.00	\$976.86
125	9-Jul-12	13	5	\$23.14	Yes	\$1,000.00	\$976.86
126	9-Jul-12	13	6	\$23.14	Yes	\$1,000.00	\$976.86
127	9-Jul-12	13	7	\$23.08	Yes	\$1,000.00	\$976.92
128	9-Jul-12	13	8	\$23.37	Yes	\$1,000.00	\$976.63

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
129	9-Jul-12	13	9	\$23.77	Yes	\$1,000.00	\$976.23
130	9-Jul-12	13	10	\$24.97	Yes	\$1,000.00	\$975.03
131	9-Jul-12	13	11	\$24.89	Yes	\$1,000.00	\$975.11
132	9-Jul-12	13	12	\$24.92	Yes	\$1,000.00	\$975.08
133	9-Jul-12	14	1	\$23.24	Yes	\$1,000.00	\$976.76
134	9-Jul-12	14	2	\$23.16	Yes	\$1,000.00	\$976.84
135	9-Jul-12	14	3	\$23.00	Yes	\$1,000.00	\$977.00
136	9-Jul-12	14	4	\$24.74	Yes	\$1,000.00	\$975.26
137	9-Jul-12	14	5	\$24.74	Yes	\$1,000.00	\$975.26
138	9-Jul-12	14	6	\$25.00	Yes	\$1,000.00	\$975.00
139	9-Jul-12	14	7	\$25.06	Yes	\$1,000.00	\$974.94
140	9-Jul-12	14	8	\$24.45	Yes	\$1,000.00	\$975.55
141	9-Jul-12	14	9	\$25.00	Yes	\$1,000.00	\$975.00
142	9-Jul-12	14	10	\$24.96	Yes	\$1,000.00	\$975.04
143	9-Jul-12	14	11	\$25.36	Yes	\$1,000.00	\$974.64
144	9-Jul-12	14	12	\$26.07	Yes	\$1,000.00	\$973.93
145	9-Jul-12	15	1	\$25.33	Yes	\$1,000.00	\$974.67
146	9-Jul-12	15	2	\$26.04	Yes	\$1,000.00	\$973.96
147	9-Jul-12	15	3	\$25.08	Yes	\$1,000.00	\$974.92
148	9-Jul-12	15	4	\$25.72	Yes	\$1,000.00	\$974.28
149	9-Jul-12	15	5	\$27.15	Yes	\$1,000.00	\$972.85
150	9-Jul-12	15	6	\$27.19	Yes	\$1,000.00	\$972.81
151	9-Jul-12	15	7	\$27.56	Yes	\$1,000.00	\$972.44
152	9-Jul-12	15	8	\$27.60	Yes	\$1,000.00	\$972.40
153	9-Jul-12	15	9	\$27.64	Yes	\$1,000.00	\$972.36
154	9-Jul-12	15	10	\$28.05	Yes	\$1,000.00	\$971.95
155	9-Jul-12	15	11	\$28.05	Yes	\$1,000.00	\$971.95
156	9-Jul-12	15	12	\$28.22	Yes	\$1,000.00	\$971.78
157	9-Jul-12	16	1	\$27.15	Yes	\$1,000.00	\$972.85
158	9-Jul-12	16	2	\$29.05	Yes	\$1,000.00	\$970.95
159	9-Jul-12	16	3	\$29.05	Yes	\$1,000.00	\$970.95
160	9-Jul-12	16	4	\$32.49	Yes	\$1,000.00	\$967.51
161	9-Jul-12	16	5	\$32.49	Yes	\$1,000.00	\$967.51
162	9-Jul-12	16	6	\$35.21	Yes	\$1,000.00	\$964.79
163	9-Jul-12	16	7	\$36.31	Yes	\$1,000.00	\$963.69
164	9-Jul-12	16	8	\$33.22	Yes	\$1,000.00	\$966.78
165	9-Jul-12	16	9	\$32.71	Yes	\$1,000.00	\$967.29
166	9-Jul-12	16	10	\$42.52	Yes	\$1,000.00	\$957.48
167	9-Jul-12	16	11	\$40.58	Yes	\$1,000.00	\$959.42
168	9-Jul-12	16	12	\$32.80	Yes	\$1,000.00	\$967.20
169	9-Jul-12	17	1	\$32.34	Yes	\$1,000.00	\$967.66
170	9-Jul-12	17	2	\$32.34	Yes	\$1,000.00	\$967.66
171	9-Jul-12	17	3	\$31.61	Yes	\$1,000.00	\$968.39
172	9-Jul-12	17	4	\$32.29	Yes	\$1,000.00	\$967.71
173	9-Jul-12	17	5	\$32.29	Yes	\$1,000.00	\$967.71

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
174	9-Jul-12	17	6	\$32.29	Yes	\$1,000.00	\$967.71
175	9-Jul-12	17	7	\$32.34	Yes	\$1,000.00	\$967.66
176	9-Jul-12	17	8	\$39.75	Yes	\$1,000.00	\$960.25
177	9-Jul-12	17	9	\$39.75	Yes	\$1,000.00	\$960.25
178	9-Jul-12	17	10	\$32.79	Yes	\$1,000.00	\$967.21
179	9-Jul-12	17	11	\$33.51	Yes	\$1,000.00	\$966.49
180	9-Jul-12	17	12	\$31.29	Yes	\$1,000.00	\$968.71
181	9-Jul-12	18	1	\$29.46	Yes	\$1,000.00	\$970.54
182	9-Jul-12	18	2	\$28.29	Yes	\$1,000.00	\$971.71
183	9-Jul-12	18	3	\$28.29	Yes	\$1,000.00	\$971.71
184	9-Jul-12	18	4	\$30.34	Yes	\$1,000.00	\$969.66
185	9-Jul-12	18	5	\$33.38	Yes	\$1,000.00	\$966.62
186	9-Jul-12	18	6	\$33.38	Yes	\$1,000.00	\$966.62
187	9-Jul-12	18	7	\$33.33	Yes	\$1,000.00	\$966.67
188	9-Jul-12	18	8	\$30.32	Yes	\$1,000.00	\$969.68
189	9-Jul-12	18	9	\$30.43	Yes	\$1,000.00	\$969.57
190	9-Jul-12	18	10	\$28.39	Yes	\$1,000.00	\$971.61
191	9-Jul-12	18	11	\$29.52	Yes	\$1,000.00	\$970.48
192	9-Jul-12	18	12	\$29.25	Yes	\$1,000.00	\$970.75
193	9-Jul-12	19	1	\$30.07	Yes	\$1,000.00	\$969.93
194	9-Jul-12	19	2	\$29.85	Yes	\$1,000.00	\$970.15
195	9-Jul-12	19	3	\$29.42	Yes	\$1,000.00	\$970.58
196	9-Jul-12	19	4	\$27.74	Yes	\$1,000.00	\$972.26
197	9-Jul-12	19	5	\$27.52	Yes	\$1,000.00	\$972.48
198	9-Jul-12	19	6	\$27.52	Yes	\$1,000.00	\$972.48
199	9-Jul-12	19	7	\$27.54	Yes	\$1,000.00	\$972.46
200	9-Jul-12	19	8	\$27.52	Yes	\$1,000.00	\$972.48
201	9-Jul-12	19	9	\$27.52	Yes	\$1,000.00	\$972.48
202	9-Jul-12	19	10	\$27.54	Yes	\$1,000.00	\$972.46
203	9-Jul-12	19	11	\$26.11	Yes	\$1,000.00	\$973.89
204	9-Jul-12	19	12	\$24.66	Yes	\$1,000.00	\$975.34
205	9-Jul-12	20	1	\$26.68	Yes	\$1,000.00	\$973.32
206	9-Jul-12	20	2	\$25.88	Yes	\$1,000.00	\$974.12
207	9-Jul-12	20	3	\$25.14	Yes	\$1,000.00	\$974.86
208	9-Jul-12	20	4	\$25.19	Yes	\$1,000.00	\$974.81
209	9-Jul-12	20	5	\$24.82	Yes	\$1,000.00	\$975.18
210	9-Jul-12	20	6	\$24.40	Yes	\$1,000.00	\$975.60
211	9-Jul-12	20	7	\$23.29	Yes	\$1,000.00	\$976.71
212	9-Jul-12	20	8	\$23.02	Yes	\$1,000.00	\$976.98
213	9-Jul-12	20	9	\$23.00	Yes	\$1,000.00	\$977.00
214	9-Jul-12	20	10	\$22.99	Yes	\$1,000.00	\$977.01
215	9-Jul-12	20	11	\$22.99	Yes	\$1,000.00	\$977.01
216	9-Jul-12	20	12	\$22.91	Yes	\$1,000.00	\$977.09
217	9-Jul-12	21	1	\$23.32	Yes	\$1,000.00	\$976.68
218	9-Jul-12	21	2	\$23.59	Yes	\$1,000.00	\$976.41

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
219	9-Jul-12	21	3	\$24.97	Yes	\$1,000.00	\$975.03
220	9-Jul-12	21	4	\$24.91	Yes	\$1,000.00	\$975.09
221	9-Jul-12	21	5	\$24.14	Yes	\$1,000.00	\$975.86
222	9-Jul-12	21	6	\$24.28	Yes	\$1,000.00	\$975.72
223	9-Jul-12	21	7	\$24.39	Yes	\$1,000.00	\$975.61
224	9-Jul-12	21	8	\$24.03	Yes	\$1,000.00	\$975.97
225	9-Jul-12	21	9	\$23.63	Yes	\$1,000.00	\$976.37
226	9-Jul-12	21	10	\$23.80	Yes	\$1,000.00	\$976.20
227	9-Jul-12	21	11	\$23.80	Yes	\$1,000.00	\$976.20
228	9-Jul-12	21	12	\$23.53	Yes	\$1,000.00	\$976.47
229	9-Jul-12	22	1	\$23.52	Yes	\$1,000.00	\$976.48
230	9-Jul-12	22	2	\$23.15	Yes	\$1,000.00	\$976.85
231	9-Jul-12	22	3	\$23.15	Yes	\$1,000.00	\$976.85
232	9-Jul-12	22	4	\$23.43	Yes	\$1,000.00	\$976.57
233	9-Jul-12	22	5	\$22.51	Yes	\$1,000.00	\$977.49
234	9-Jul-12	22	6	\$22.11	Yes	\$1,000.00	\$977.89
235	9-Jul-12	22	7	\$20.98	Yes	\$1,000.00	\$979.02
236	9-Jul-12	22	8	\$20.46	Yes	\$1,000.00	\$979.54
237	9-Jul-12	22	9	\$19.03	Yes	\$1,000.00	\$980.97
238	9-Jul-12	22	10	\$18.72	Yes	\$1,000.00	\$981.28
239	9-Jul-12	22	11	\$18.56	Yes	\$1,000.00	\$981.44
240	9-Jul-12	22	12	\$14.71	Yes	\$1,000.00	\$985.29
241	9-Jul-12	23	1	\$24.75	Yes	\$1,000.00	\$975.25
242	9-Jul-12	23	2	\$24.70	Yes	\$1,000.00	\$975.30
243	9-Jul-12	23	3	\$25.19	Yes	\$1,000.00	\$974.81
244	9-Jul-12	23	4	\$23.34	Yes	\$1,000.00	\$976.66
245	9-Jul-12	23	5	\$22.97	Yes	\$1,000.00	\$977.03
246	9-Jul-12	23	6	\$23.22	Yes	\$1,000.00	\$976.78
247	9-Jul-12	23	7	\$21.66	Yes	\$1,000.00	\$978.34
248	9-Jul-12	23	8	\$20.56	Yes	\$1,000.00	\$979.44
249	9-Jul-12	23	9	\$15.35	Yes	\$1,000.00	\$984.65
250	9-Jul-12	23	10	\$15.26	Yes	\$1,000.00	\$984.74
251	9-Jul-12	23	11	\$13.96	Yes	\$1,000.00	\$986.04
252	9-Jul-12	23	12	\$5.18	Yes	\$1,000.00	\$994.82
253	9-Jul-12	24	1	\$23.18	Yes	\$1,000.00	\$976.82
254	9-Jul-12	24	2	\$22.61	Yes	\$1,000.00	\$977.39
255	9-Jul-12	24	3	\$23.09	Yes	\$1,000.00	\$976.91
256	9-Jul-12	24	4	\$23.01	Yes	\$1,000.00	\$976.99
257	9-Jul-12	24	5	\$22.88	Yes	\$1,000.00	\$977.12
258	9-Jul-12	24	6	\$22.98	Yes	\$1,000.00	\$977.02
259	9-Jul-12	24	7	\$21.41	Yes	\$1,000.00	\$978.59
260	9-Jul-12	24	8	\$21.14	Yes	\$1,000.00	\$978.86
261	9-Jul-12	24	9	\$17.97	Yes	\$1,000.00	\$982.03
262	9-Jul-12	24	10	\$13.34	Yes	\$1,000.00	\$986.66
263	9-Jul-12	24	11	\$0.01	Yes	\$1,000.00	\$999.99

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
264	9-Jul-12	24	12	-\$2.16	Yes	\$1,000.00	\$1,002.16
265	10-Jul-12	1	5	\$21.51	Yes	\$1,000.00	\$978.49
266	10-Jul-12	1	6	\$11.87	Yes	\$1,000.00	\$988.13
267	10-Jul-12	1	7	\$13.33	Yes	\$1,000.00	\$986.67
268	10-Jul-12	1	8	\$11.84	Yes	\$1,000.00	\$988.16
269	10-Jul-12	1	9	\$14.33	Yes	\$1,000.00	\$985.67
270	10-Jul-12	1	10	\$14.81	Yes	\$1,000.00	\$985.19
271	10-Jul-12	1	11	\$11.83	Yes	\$1,000.00	\$988.17
272	10-Jul-12	1	12	\$16.97	Yes	\$1,000.00	\$983.03
273	10-Jul-12	2	1	\$20.46	Yes	\$1,000.00	\$979.54
274	10-Jul-12	2	2	\$17.11	Yes	\$1,000.00	\$982.89
275	10-Jul-12	2	3	\$19.05	Yes	\$1,000.00	\$980.95
276	10-Jul-12	2	4	\$20.57	Yes	\$1,000.00	\$979.43
277	10-Jul-12	2	5	\$17.09	Yes	\$1,000.00	\$982.91
278	10-Jul-12	2	6	\$11.86	Yes	\$1,000.00	\$988.14
279	10-Jul-12	2	7	\$11.85	Yes	\$1,000.00	\$988.15
280	10-Jul-12	2	8	\$11.83	Yes	\$1,000.00	\$988.17
281	10-Jul-12	2	9	\$3.17	Yes	\$1,000.00	\$996.83
282	10-Jul-12	2	10	\$1.02	Yes	\$1,000.00	\$998.98
283	10-Jul-12	2	11	\$0.10	Yes	\$1,000.00	\$999.90
284	10-Jul-12	2	12	\$0.10	Yes	\$1,000.00	\$999.90
285	10-Jul-12	3	1	\$1.05	Yes	\$1,000.00	\$998.95
286	10-Jul-12	3	2	\$20.44	Yes	\$1,000.00	\$979.56
287	10-Jul-12	3	3	\$21.37	Yes	\$1,000.00	\$978.63
288	10-Jul-12	3	4	\$20.98	Yes	\$1,000.00	\$979.02
289	10-Jul-12	3	5	\$20.25	Yes	\$1,000.00	\$979.75
290	10-Jul-12	3	6	\$20.25	Yes	\$1,000.00	\$979.75
291	10-Jul-12	3	7	\$20.23	Yes	\$1,000.00	\$979.77
292	10-Jul-12	3	8	\$20.25	Yes	\$1,000.00	\$979.75
293	10-Jul-12	3	9	\$20.25	Yes	\$1,000.00	\$979.75
294	10-Jul-12	3	10	\$1.04	Yes	\$1,000.00	\$998.96
295	10-Jul-12	3	11	\$0.10	Yes	\$1,000.00	\$999.90
296	10-Jul-12	3	12	\$0.10	Yes	\$1,000.00	\$999.90
297	10-Jul-12	4	1	\$1.06	Yes	\$1,000.00	\$998.94
298	10-Jul-12	4	2	\$0.10	Yes	\$1,000.00	\$999.90
299	10-Jul-12	4	3	\$0.01	Yes	\$1,000.00	\$999.99
300	10-Jul-12	4	4	-\$10.81	Yes	\$1,000.00	\$1,010.81
301	10-Jul-12	4	5	\$0.10	Yes	\$1,000.00	\$999.90
302	10-Jul-12	4	6	\$0.10	Yes	\$1,000.00	\$999.90
303	10-Jul-12	4	7	\$0.10	Yes	\$1,000.00	\$999.90
304	10-Jul-12	4	8	\$1.02	Yes	\$1,000.00	\$998.98
305	10-Jul-12	4	9	\$20.19	Yes	\$1,000.00	\$979.81
306	10-Jul-12	4	10	\$6.65	Yes	\$1,000.00	\$993.35
307	10-Jul-12	4	11	\$6.71	Yes	\$1,000.00	\$993.29
308	10-Jul-12	4	12	\$20.04	Yes	\$1,000.00	\$979.96

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
309	10-Jul-12	5	1	\$20.51	Yes	\$1,000.00	\$979.49
310	10-Jul-12	5	2	\$20.77	Yes	\$1,000.00	\$979.23
311	10-Jul-12	5	3	\$20.77	Yes	\$1,000.00	\$979.23
312	10-Jul-12	5	4	\$21.16	Yes	\$1,000.00	\$978.84
313	10-Jul-12	5	5	\$20.64	Yes	\$1,000.00	\$979.36
314	10-Jul-12	5	6	\$21.16	Yes	\$1,000.00	\$978.84
315	10-Jul-12	5	7	\$21.36	Yes	\$1,000.00	\$978.64
316	10-Jul-12	5	8	\$21.82	Yes	\$1,000.00	\$978.18
317	10-Jul-12	5	9	\$22.12	Yes	\$1,000.00	\$977.88
318	10-Jul-12	5	10	\$22.20	Yes	\$1,000.00	\$977.80
319	10-Jul-12	5	11	\$22.20	Yes	\$1,000.00	\$977.80
320	10-Jul-12	5	12	\$21.41	Yes	\$1,000.00	\$978.59
321	10-Jul-12	6	1	\$20.27	Yes	\$1,000.00	\$979.73
322	10-Jul-12	6	2	\$20.27	Yes	\$1,000.00	\$979.73
323	10-Jul-12	6	3	\$20.43	Yes	\$1,000.00	\$979.57
324	10-Jul-12	6	4	\$10.94	Yes	\$1,000.00	\$989.06
325	10-Jul-12	6	5	\$14.56	Yes	\$1,000.00	\$985.44
326	10-Jul-12	6	6	\$1.05	Yes	\$1,000.00	\$998.95
327	10-Jul-12	6	7	\$20.39	Yes	\$1,000.00	\$979.61
328	10-Jul-12	6	8	\$20.43	Yes	\$1,000.00	\$979.57
329	10-Jul-12	6	9	\$20.32	Yes	\$1,000.00	\$979.68
330	10-Jul-12	6	10	\$23.76	Yes	\$1,000.00	\$976.24
331	10-Jul-12	6	11	\$14.35	Yes	\$1,000.00	\$985.65
332	10-Jul-12	6	12	\$20.47	Yes	\$1,000.00	\$979.53
333	10-Jul-12	7	1	\$0.10	Yes	\$1,000.00	\$999.90
334	10-Jul-12	7	2	\$0.01	Yes	\$1,000.00	\$999.99
335	10-Jul-12	7	3	-\$10.71	Yes	\$1,000.00	\$1,010.71
336	10-Jul-12	7	4	-\$10.73	Yes	\$1,000.00	\$1,010.73
337	10-Jul-12	7	5	\$0.10	Yes	\$1,000.00	\$999.90
338	10-Jul-12	7	6	\$1.05	Yes	\$1,000.00	\$998.95
339	10-Jul-12	7	7	\$10.98	Yes	\$1,000.00	\$989.02
340	10-Jul-12	7	8	\$0.10	Yes	\$1,000.00	\$999.90
341	10-Jul-12	7	9	\$1.06	Yes	\$1,000.00	\$998.94
342	10-Jul-12	7	10	\$11.96	Yes	\$1,000.00	\$988.04
343	10-Jul-12	7	11	\$12.75	Yes	\$1,000.00	\$987.25
344	10-Jul-12	7	12	\$21.47	Yes	\$1,000.00	\$978.53
345	10-Jul-12	8	1	\$4.68	Yes	\$1,000.00	\$995.32
346	10-Jul-12	8	2	\$8.84	Yes	\$1,000.00	\$991.16
347	10-Jul-12	8	3	\$8.84	Yes	\$1,000.00	\$991.16
348	10-Jul-12	8	4	\$8.85	Yes	\$1,000.00	\$991.15
349	10-Jul-12	8	5	\$13.14	Yes	\$1,000.00	\$986.86
350	10-Jul-12	8	6	\$21.23	Yes	\$1,000.00	\$978.77
351	10-Jul-12	8	7	\$22.36	Yes	\$1,000.00	\$977.64
352	10-Jul-12	8	8	\$19.64	Yes	\$1,000.00	\$980.36
353	10-Jul-12	8	9	\$20.66	Yes	\$1,000.00	\$979.34

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
354	10-Jul-12	8	10	\$19.62	Yes	\$1,000.00	\$980.38
355	10-Jul-12	8	11	\$23.27	Yes	\$1,000.00	\$976.73
356	10-Jul-12	8	12	\$24.90	Yes	\$1,000.00	\$975.10
357	10-Jul-12	9	1	\$8.42	Yes	\$1,000.00	\$991.58
358	10-Jul-12	9	2	\$11.99	Yes	\$1,000.00	\$988.01
359	10-Jul-12	9	3	\$11.14	Yes	\$1,000.00	\$988.86
360	10-Jul-12	9	4	\$14.88	Yes	\$1,000.00	\$985.12
361	10-Jul-12	9	5	\$12.01	Yes	\$1,000.00	\$987.99
362	10-Jul-12	9	6	\$12.01	Yes	\$1,000.00	\$987.99
363	10-Jul-12	9	7	\$15.39	Yes	\$1,000.00	\$984.61
364	10-Jul-12	9	8	\$17.39	Yes	\$1,000.00	\$982.61
365	10-Jul-12	9	9	\$20.01	Yes	\$1,000.00	\$979.99
366	10-Jul-12	9	10	\$22.34	Yes	\$1,000.00	\$977.66
367	10-Jul-12	9	11	\$21.61	Yes	\$1,000.00	\$978.39
368	10-Jul-12	9	12	\$23.27	Yes	\$1,000.00	\$976.73
369	10-Jul-12	10	1	\$20.13	Yes	\$1,000.00	\$979.87
370	10-Jul-12	10	2	\$18.29	Yes	\$1,000.00	\$981.71
371	10-Jul-12	10	3	\$17.27	Yes	\$1,000.00	\$982.73
372	10-Jul-12	10	4	\$20.27	Yes	\$1,000.00	\$979.73
373	10-Jul-12	10	5	\$19.49	Yes	\$1,000.00	\$980.51
374	10-Jul-12	10	6	\$19.49	Yes	\$1,000.00	\$980.51
375	10-Jul-12	10	7	\$19.67	Yes	\$1,000.00	\$980.33
376	10-Jul-12	10	8	\$18.38	Yes	\$1,000.00	\$981.62
377	10-Jul-12	10	9	\$20.30	Yes	\$1,000.00	\$979.70
378	10-Jul-12	10	10	\$27.70	Yes	\$1,000.00	\$972.30
379	10-Jul-12	10	11	\$27.71	Yes	\$1,000.00	\$972.29
380	10-Jul-12	10	12	\$28.45	Yes	\$1,000.00	\$971.55
381	10-Jul-12	11	1	\$18.41	Yes	\$1,000.00	\$981.59
382	10-Jul-12	11	2	\$19.56	Yes	\$1,000.00	\$980.44
383	10-Jul-12	11	3	\$20.45	Yes	\$1,000.00	\$979.55
384	10-Jul-12	11	4	\$21.54	Yes	\$1,000.00	\$978.46
385	10-Jul-12	11	5	\$21.37	Yes	\$1,000.00	\$978.63
386	10-Jul-12	11	6	\$21.48	Yes	\$1,000.00	\$978.52
387	10-Jul-12	11	7	\$21.82	Yes	\$1,000.00	\$978.18
388	10-Jul-12	11	8	\$22.06	Yes	\$1,000.00	\$977.94
389	10-Jul-12	11	9	\$22.06	Yes	\$1,000.00	\$977.94
390	10-Jul-12	11	10	\$23.07	Yes	\$1,000.00	\$976.93
391	10-Jul-12	11	11	\$22.87	Yes	\$1,000.00	\$977.13
392	10-Jul-12	11	12	\$23.32	Yes	\$1,000.00	\$976.68
393	10-Jul-12	12	1	\$22.88	Yes	\$1,000.00	\$977.12
394	10-Jul-12	12	2	\$23.14	Yes	\$1,000.00	\$976.86
395	10-Jul-12	12	3	\$23.38	Yes	\$1,000.00	\$976.62
396	10-Jul-12	12	4	\$23.44	Yes	\$1,000.00	\$976.56
397	10-Jul-12	12	5	\$23.56	Yes	\$1,000.00	\$976.44
398	10-Jul-12	12	6	\$23.56	Yes	\$1,000.00	\$976.44

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
399	10-Jul-12	12	7	\$23.64	Yes	\$1,000.00	\$976.36
400	10-Jul-12	12	8	\$23.63	Yes	\$1,000.00	\$976.37
401	10-Jul-12	12	9	\$23.98	Yes	\$1,000.00	\$976.02
402	10-Jul-12	12	10	\$24.01	Yes	\$1,000.00	\$975.99
403	10-Jul-12	12	11	\$24.00	Yes	\$1,000.00	\$976.00
404	10-Jul-12	12	12	\$23.93	Yes	\$1,000.00	\$976.07
405	10-Jul-12	13	1	\$23.55	Yes	\$1,000.00	\$976.45
406	10-Jul-12	13	2	\$23.55	Yes	\$1,000.00	\$976.45
407	10-Jul-12	13	3	\$162.25	Yes	\$1,000.00	\$837.75
408	10-Jul-12	13	4	\$165.10	Yes	\$1,000.00	\$834.90
409	10-Jul-12	13	5	\$163.69	Yes	\$1,000.00	\$836.31
410	10-Jul-12	13	6	\$24.81	Yes	\$1,000.00	\$975.19
411	10-Jul-12	13	7	\$24.58	Yes	\$1,000.00	\$975.42
412	10-Jul-12	13	8	\$25.14	Yes	\$1,000.00	\$974.86
413	10-Jul-12	13	9	\$25.54	Yes	\$1,000.00	\$974.46
414	10-Jul-12	13	10	\$26.51	Yes	\$1,000.00	\$973.49
415	10-Jul-12	13	11	\$27.87	Yes	\$1,000.00	\$972.13
416	10-Jul-12	13	12	\$28.50	Yes	\$1,000.00	\$971.50
417	10-Jul-12	14	1	\$25.26	Yes	\$32.83	\$7.57
418	10-Jul-12	14	2	\$26.62	Yes	\$32.83	\$6.21
419	10-Jul-12	14	3	\$27.34	Yes	\$32.83	\$5.49
420	10-Jul-12	14	4	\$27.64	Yes	\$32.83	\$5.19
421	10-Jul-12	14	5	\$28.18	Yes	\$32.83	\$4.65
422	10-Jul-12	14	6	\$28.33	Yes	\$32.83	\$4.50
423	10-Jul-12	14	7	\$29.37	Yes	\$32.83	\$3.46
424	10-Jul-12	14	8	\$153.57	Yes	\$32.83	-\$120.74
425	10-Jul-12	14	9	\$164.79	Yes	\$32.83	-\$131.96
426	10-Jul-12	14	10	\$36.71	Yes	\$32.83	-\$3.88
427	10-Jul-12	14	11	\$40.55	Yes	\$32.83	-\$7.72
428	10-Jul-12	14	12	\$30.02	Yes	\$32.83	\$2.81
429	10-Jul-12	15	1	\$27.88	Yes	\$32.83	\$4.95
430	10-Jul-12	15	2	\$29.09	Yes	\$32.83	\$3.74
431	10-Jul-12	15	3	\$29.63	Yes	\$32.83	\$3.20
432	10-Jul-12	15	4	\$29.69	Yes	\$32.83	\$3.14
433	10-Jul-12	15	5	\$29.72	Yes	\$32.83	\$3.11
434	10-Jul-12	15	6	\$30.23	Yes	\$32.83	\$2.60
435	10-Jul-12	15	7	\$30.91	Yes	\$32.83	\$1.92
436	10-Jul-12	15	8	\$31.87	Yes	\$32.83	\$0.96
437	10-Jul-12	15	9	\$31.87	Yes	\$32.83	\$0.96
438	10-Jul-12	15	10	\$33.55	Yes	\$32.83	-\$0.72
439	10-Jul-12	15	11	\$33.36	Yes	\$32.83	-\$0.53
440	10-Jul-12	15	12	\$34.79	Yes	\$32.83	-\$1.96
441	10-Jul-12	16	1	\$33.37	Yes	\$1,000.00	\$966.63
442	10-Jul-12	16	2	\$32.88	Yes	\$1,000.00	\$967.12
443	10-Jul-12	16	3	\$33.11	Yes	\$1,000.00	\$966.89

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
444	10-Jul-12	16	4	\$98.97	Yes	\$1,000.00	\$901.03
445	10-Jul-12	16	5	\$124.44	Yes	\$1,000.00	\$875.56
446	10-Jul-12	16	6	\$116.88	Yes	\$1,000.00	\$883.12
447	10-Jul-12	16	7	\$122.16	Yes	\$1,000.00	\$877.84
448	10-Jul-12	16	8	\$30.89	Yes	\$1,000.00	\$969.11
449	10-Jul-12	16	9	\$32.13	Yes	\$1,000.00	\$967.87
450	10-Jul-12	16	10	\$31.19	Yes	\$1,000.00	\$968.81
451	10-Jul-12	16	11	\$32.05	Yes	\$1,000.00	\$967.95
452	10-Jul-12	16	12	\$35.91	Yes	\$1,000.00	\$964.09
453	10-Jul-12	17	1	\$32.06	Yes	\$1,000.00	\$967.94
454	10-Jul-12	17	2	\$33.31	Yes	\$1,000.00	\$966.69
455	10-Jul-12	17	3	\$33.31	Yes	\$1,000.00	\$966.69
456	10-Jul-12	17	4	\$33.91	Yes	\$1,000.00	\$966.09
457	10-Jul-12	17	5	\$33.91	Yes	\$1,000.00	\$966.09
458	10-Jul-12	17	6	\$33.67	Yes	\$1,000.00	\$966.33
459	10-Jul-12	17	7	\$35.10	Yes	\$1,000.00	\$964.90
460	10-Jul-12	17	8	\$33.60	Yes	\$1,000.00	\$966.40
461	10-Jul-12	17	9	\$34.87	Yes	\$1,000.00	\$965.13
462	10-Jul-12	17	10	\$34.12	Yes	\$1,000.00	\$965.88
463	10-Jul-12	17	11	\$35.90	Yes	\$1,000.00	\$964.10
464	10-Jul-12	17	12	\$32.02	Yes	\$1,000.00	\$967.98
465	10-Jul-12	18	1	\$31.39	Yes	\$1,000.00	\$968.61
466	10-Jul-12	18	2	\$31.08	Yes	\$1,000.00	\$968.92
467	10-Jul-12	18	3	\$30.90	Yes	\$1,000.00	\$969.10
468	10-Jul-12	18	4	\$30.91	Yes	\$1,000.00	\$969.09
469	10-Jul-12	18	5	\$30.91	Yes	\$1,000.00	\$969.09
470	10-Jul-12	18	6	\$29.87	Yes	\$1,000.00	\$970.13
471	10-Jul-12	18	7	\$29.82	Yes	\$1,000.00	\$970.18
472	10-Jul-12	18	8	\$29.68	Yes	\$1,000.00	\$970.32
473	10-Jul-12	18	9	\$29.34	Yes	\$1,000.00	\$970.66
474	10-Jul-12	18	10	\$29.15	Yes	\$1,000.00	\$970.85
475	10-Jul-12	18	11	\$29.15	Yes	\$1,000.00	\$970.85
476	10-Jul-12	18	12	\$29.15	Yes	\$1,000.00	\$970.85
477	10-Jul-12	19	1	\$29.84	Yes	\$1,000.00	\$970.16
478	10-Jul-12	19	2	\$29.47	Yes	\$1,000.00	\$970.53
479	10-Jul-12	19	3	\$29.58	Yes	\$1,000.00	\$970.42
480	10-Jul-12	19	4	\$45.90	Yes	\$1,000.00	\$954.10
481	10-Jul-12	19	5	\$42.85	Yes	\$1,000.00	\$957.15
482	10-Jul-12	19	6	\$37.68	Yes	\$1,000.00	\$962.32
483	10-Jul-12	19	7	\$32.37	Yes	\$1,000.00	\$967.63
484	10-Jul-12	19	8	\$33.26	Yes	\$1,000.00	\$966.74
485	10-Jul-12	19	9	\$34.50	Yes	\$1,000.00	\$965.50
486	10-Jul-12	19	10	\$27.54	Yes	\$1,000.00	\$972.46
487	10-Jul-12	19	11	\$27.77	Yes	\$1,000.00	\$972.23
488	10-Jul-12	19	12	\$27.87	Yes	\$1,000.00	\$972.13

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
489	10-Jul-12	20	1	\$28.21	Yes	\$1,000.00	\$971.79
490	10-Jul-12	20	2	\$28.80	Yes	\$1,000.00	\$971.20
491	10-Jul-12	20	3	\$28.80	Yes	\$1,000.00	\$971.20
492	10-Jul-12	20	4	\$27.78	Yes	\$1,000.00	\$972.22
493	10-Jul-12	20	5	\$27.80	Yes	\$1,000.00	\$972.20
494	10-Jul-12	20	6	\$27.80	Yes	\$1,000.00	\$972.20
495	10-Jul-12	20	7	\$27.22	Yes	\$1,000.00	\$972.78
496	10-Jul-12	20	8	\$26.12	Yes	\$1,000.00	\$973.88
497	10-Jul-12	20	9	\$26.64	Yes	\$1,000.00	\$973.36
498	10-Jul-12	20	10	\$28.08	Yes	\$1,000.00	\$971.92
499	10-Jul-12	20	11	\$27.78	Yes	\$1,000.00	\$972.22
500	10-Jul-12	20	12	\$24.05	Yes	\$1,000.00	\$975.95
501	10-Jul-12	21	1	\$23.70	Yes	\$1,000.00	\$976.30
502	10-Jul-12	21	2	\$28.86	Yes	\$1,000.00	\$971.14
503	10-Jul-12	21	3	\$29.84	Yes	\$1,000.00	\$970.16
504	10-Jul-12	21	4	\$27.93	Yes	\$1,000.00	\$972.07
505	10-Jul-12	21	5	\$26.52	Yes	\$1,000.00	\$973.48
506	10-Jul-12	21	6	\$27.13	Yes	\$1,000.00	\$972.87
507	10-Jul-12	21	7	\$26.96	Yes	\$1,000.00	\$973.04
508	10-Jul-12	21	8	\$26.96	Yes	\$1,000.00	\$973.04
509	10-Jul-12	21	9	\$25.19	Yes	\$1,000.00	\$974.81
510	10-Jul-12	21	10	\$24.83	Yes	\$1,000.00	\$975.17
511	10-Jul-12	21	11	\$24.66	Yes	\$1,000.00	\$975.34
512	10-Jul-12	21	12	\$23.85	Yes	\$1,000.00	\$976.15
513	10-Jul-12	22	1	\$23.82	Yes	\$1,000.00	\$976.18
514	10-Jul-12	22	2	\$24.00	Yes	\$1,000.00	\$976.00
515	10-Jul-12	22	3	\$24.95	Yes	\$1,000.00	\$975.05
516	10-Jul-12	22	4	\$28.33	Yes	\$1,000.00	\$971.67
517	10-Jul-12	22	5	\$27.96	Yes	\$1,000.00	\$972.04
518	10-Jul-12	22	6	\$27.80	Yes	\$1,000.00	\$972.20
519	10-Jul-12	22	7	\$23.86	Yes	\$1,000.00	\$976.14
520	10-Jul-12	22	8	\$22.69	Yes	\$1,000.00	\$977.31
521	10-Jul-12	22	9	\$22.69	Yes	\$1,000.00	\$977.31
522	10-Jul-12	22	10	\$22.49	Yes	\$1,000.00	\$977.51
523	10-Jul-12	22	11	\$22.05	Yes	\$1,000.00	\$977.95
524	10-Jul-12	22	12	\$20.48	Yes	\$1,000.00	\$979.52
525	10-Jul-12	23	1	\$27.86	Yes	\$1,000.00	\$972.14
526	10-Jul-12	23	2	\$25.61	Yes	\$1,000.00	\$974.39
527	10-Jul-12	23	3	\$27.86	Yes	\$1,000.00	\$972.14
528	10-Jul-12	23	4	\$25.29	Yes	\$1,000.00	\$974.71
529	10-Jul-12	23	5	\$28.71	Yes	\$1,000.00	\$971.29
530	10-Jul-12	23	6	\$26.56	Yes	\$1,000.00	\$973.44
531	10-Jul-12	23	7	\$23.64	Yes	\$1,000.00	\$976.36
532	10-Jul-12	23	8	\$22.74	Yes	\$1,000.00	\$977.26
533	10-Jul-12	23	9	\$22.04	Yes	\$1,000.00	\$977.96

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
534	10-Jul-12	23	10	\$133.28	Yes	\$1,000.00	\$866.72
535	10-Jul-12	23	11	\$21.59	Yes	\$1,000.00	\$978.41
536	10-Jul-12	23	12	\$19.79	Yes	\$1,000.00	\$980.21
537	10-Jul-12	24	1	\$22.79	Yes	\$1,000.00	\$977.21
538	10-Jul-12	24	2	\$22.79	Yes	\$1,000.00	\$977.21
539	10-Jul-12	24	3	\$22.68	Yes	\$1,000.00	\$977.32
540	10-Jul-12	24	4	\$23.36	Yes	\$1,000.00	\$976.64
541	10-Jul-12	24	5	\$21.50	Yes	\$1,000.00	\$978.50
542	10-Jul-12	24	6	\$21.47	Yes	\$1,000.00	\$978.53
543	10-Jul-12	24	7	\$21.12	Yes	\$1,000.00	\$978.88
544	10-Jul-12	24	8	\$21.22	Yes	\$1,000.00	\$978.78
545	10-Jul-12	24	9	\$19.23	Yes	\$1,000.00	\$980.77
546	10-Jul-12	24	10	\$17.50	Yes	\$1,000.00	\$982.50
547	10-Jul-12	24	11	\$13.11	Yes	\$1,000.00	\$986.89
548	10-Jul-12	24	12	-\$2.18	Yes	\$1,000.00	\$1,002.18
549	11-Jul-12	1	1	\$22.42	Yes	\$1,000.00	\$977.58
550	11-Jul-12	1	2	\$18.65	Yes	\$1,000.00	\$981.35
551	11-Jul-12	1	3	\$26.14	Yes	\$1,000.00	\$973.86
552	11-Jul-12	1	4	\$30.65	Yes	\$1,000.00	\$969.35
553	11-Jul-12	1	5	\$27.82	Yes	\$1,000.00	\$972.18
554	11-Jul-12	1	6	\$27.82	Yes	\$1,000.00	\$972.18
555	11-Jul-12	1	7	\$22.26	Yes	\$1,000.00	\$977.74
556	11-Jul-12	1	8	\$22.90	Yes	\$1,000.00	\$977.10
557	11-Jul-12	1	9	\$22.27	Yes	\$1,000.00	\$977.73
558	11-Jul-12	1	10	\$23.52	Yes	\$1,000.00	\$976.48
559	11-Jul-12	1	11	\$22.85	Yes	\$1,000.00	\$977.15
560	11-Jul-12	1	12	\$21.10	Yes	\$1,000.00	\$978.90
561	11-Jul-12	2	1	\$23.01	Yes	\$1,000.00	\$976.99
562	11-Jul-12	2	2	\$22.44	Yes	\$1,000.00	\$977.56
563	11-Jul-12	2	3	\$23.47	Yes	\$1,000.00	\$976.53
564	11-Jul-12	2	4	\$23.11	Yes	\$1,000.00	\$976.89
565	11-Jul-12	2	5	\$22.93	Yes	\$1,000.00	\$977.07
566	11-Jul-12	2	6	\$22.42	Yes	\$1,000.00	\$977.58
567	11-Jul-12	2	7	\$22.87	Yes	\$1,000.00	\$977.13
568	11-Jul-12	2	8	\$20.88	Yes	\$1,000.00	\$979.12
569	11-Jul-12	2	9	\$21.55	Yes	\$1,000.00	\$978.45
570	11-Jul-12	2	10	\$20.50	Yes	\$1,000.00	\$979.50
571	11-Jul-12	2	11	\$14.21	Yes	\$1,000.00	\$985.79
572	11-Jul-12	2	12	\$16.83	Yes	\$1,000.00	\$983.17
573	11-Jul-12	3	1	\$20.84	Yes	\$1,000.00	\$979.16
574	11-Jul-12	3	2	\$20.77	Yes	\$1,000.00	\$979.23
575	11-Jul-12	3	3	\$20.84	Yes	\$1,000.00	\$979.16
576	11-Jul-12	3	4	\$20.08	Yes	\$1,000.00	\$979.92
577	11-Jul-12	3	5	\$20.79	Yes	\$1,000.00	\$979.21
578	11-Jul-12	3	6	\$20.84	Yes	\$1,000.00	\$979.16

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
579	11-Jul-12	3	7	\$20.69	Yes	\$1,000.00	\$979.31
580	11-Jul-12	3	8	\$0.01	Yes	\$1,000.00	\$999.99
581	11-Jul-12	3	9	-\$30.96	Yes	\$1,000.00	\$1,030.96
582	11-Jul-12	3	10	\$0.10	Yes	\$1,000.00	\$999.90
583	11-Jul-12	3	11	\$0.10	Yes	\$1,000.00	\$999.90
584	11-Jul-12	3	12	-\$31.52	Yes	\$1,000.00	\$1,031.52
585	11-Jul-12	4	1	\$0.10	Yes	\$1,000.00	\$999.90
586	11-Jul-12	4	2	\$0.10	Yes	\$1,000.00	\$999.90
587	11-Jul-12	4	3	\$0.10	Yes	\$1,000.00	\$999.90
588	11-Jul-12	4	4	\$20.04	Yes	\$1,000.00	\$979.96
589	11-Jul-12	4	5	\$20.72	Yes	\$1,000.00	\$979.28
590	11-Jul-12	4	6	\$20.04	Yes	\$1,000.00	\$979.96
591	11-Jul-12	4	7	\$20.03	Yes	\$1,000.00	\$979.97
592	11-Jul-12	4	8	\$0.10	Yes	\$1,000.00	\$999.90
593	11-Jul-12	4	9	\$0.10	Yes	\$1,000.00	\$999.90
594	11-Jul-12	4	10	\$0.10	Yes	\$1,000.00	\$999.90
595	11-Jul-12	4	11	-\$31.07	Yes	\$1,000.00	\$1,031.07
596	11-Jul-12	4	12	\$0.10	Yes	\$1,000.00	\$999.90
597	11-Jul-12	5	1	\$0.10	Yes	\$1,000.00	\$999.90
598	11-Jul-12	5	2	\$19.91	Yes	\$1,000.00	\$980.09
599	11-Jul-12	5	3	\$13.33	Yes	\$1,000.00	\$986.67
600	11-Jul-12	5	4	\$13.34	Yes	\$1,000.00	\$986.66
601	11-Jul-12	5	5	\$19.11	Yes	\$1,000.00	\$980.89
602	11-Jul-12	5	6	\$20.68	Yes	\$1,000.00	\$979.32
603	11-Jul-12	5	7	\$20.70	Yes	\$1,000.00	\$979.30
604	11-Jul-12	5	8	\$20.77	Yes	\$1,000.00	\$979.23
605	11-Jul-12	5	9	\$20.77	Yes	\$1,000.00	\$979.23
606	11-Jul-12	5	10	\$20.80	Yes	\$1,000.00	\$979.20
607	11-Jul-12	5	11	\$20.80	Yes	\$1,000.00	\$979.20
608	11-Jul-12	5	12	\$0.10	Yes	\$1,000.00	\$999.90
609	11-Jul-12	6	1	\$0.10	Yes	\$1,000.00	\$999.90
610	11-Jul-12	6	2	\$0.10	Yes	\$1,000.00	\$999.90
611	11-Jul-12	6	3	\$0.10	Yes	\$1,000.00	\$999.90
612	11-Jul-12	6	4	\$17.34	Yes	\$1,000.00	\$982.66
613	11-Jul-12	6	5	\$20.67	Yes	\$1,000.00	\$979.33
614	11-Jul-12	6	6	\$20.67	Yes	\$1,000.00	\$979.33
615	11-Jul-12	6	7	\$20.71	Yes	\$1,000.00	\$979.29
616	11-Jul-12	6	8	\$14.28	Yes	\$1,000.00	\$985.72
617	11-Jul-12	6	9	\$17.26	Yes	\$1,000.00	\$982.74
618	11-Jul-12	6	10	\$0.01	Yes	\$1,000.00	\$999.99
619	11-Jul-12	6	11	\$14.34	Yes	\$1,000.00	\$985.66
620	11-Jul-12	6	12	\$22.27	Yes	\$1,000.00	\$977.73
621	11-Jul-12	7	1	\$17.02	Yes	\$1,000.00	\$982.98
622	11-Jul-12	7	2	\$21.44	Yes	\$1,000.00	\$978.56
623	11-Jul-12	7	3	\$20.56	Yes	\$1,000.00	\$979.44

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
624	11-Jul-12	7	4	\$11.90	Yes	\$1,000.00	\$988.10
625	11-Jul-12	7	5	\$17.36	Yes	\$1,000.00	\$982.64
626	11-Jul-12	7	6	\$21.47	Yes	\$1,000.00	\$978.53
627	11-Jul-12	7	7	\$20.81	Yes	\$1,000.00	\$979.19
628	11-Jul-12	7	8	\$20.98	Yes	\$1,000.00	\$979.02
629	11-Jul-12	7	9	\$21.48	Yes	\$1,000.00	\$978.52
630	11-Jul-12	7	10	\$23.38	Yes	\$1,000.00	\$976.62
631	11-Jul-12	7	11	\$23.06	Yes	\$1,000.00	\$976.94
632	11-Jul-12	7	12	\$23.06	Yes	\$1,000.00	\$976.94
633	11-Jul-12	8	1	\$19.54	Yes	\$1,000.00	\$980.46
634	11-Jul-12	8	2	\$19.54	Yes	\$1,000.00	\$980.46
635	11-Jul-12	8	3	\$17.14	Yes	\$1,000.00	\$982.86
636	11-Jul-12	8	4	\$23.02	Yes	\$1,000.00	\$976.98
637	11-Jul-12	8	5	\$23.45	Yes	\$1,000.00	\$976.55
638	11-Jul-12	8	6	\$23.47	Yes	\$1,000.00	\$976.53
639	11-Jul-12	8	7	\$23.71	Yes	\$1,000.00	\$976.29
640	11-Jul-12	8	8	\$23.69	Yes	\$1,000.00	\$976.31
641	11-Jul-12	8	9	\$24.98	Yes	\$1,000.00	\$975.02
642	11-Jul-12	8	10	\$23.47	Yes	\$1,000.00	\$976.53
643	11-Jul-12	8	11	\$23.47	Yes	\$1,000.00	\$976.53
644	11-Jul-12	8	12	\$26.95	Yes	\$1,000.00	\$973.05
645	11-Jul-12	9	1	\$21.74	Yes	\$1,000.00	\$978.26
646	11-Jul-12	9	2	\$17.48	Yes	\$1,000.00	\$982.52
647	11-Jul-12	9	3	\$20.75	Yes	\$1,000.00	\$979.25
648	11-Jul-12	9	4	\$17.48	Yes	\$1,000.00	\$982.52
649	11-Jul-12	9	5	\$20.74	Yes	\$1,000.00	\$979.26
650	11-Jul-12	9	6	\$20.91	Yes	\$1,000.00	\$979.09
651	11-Jul-12	9	7	\$21.01	Yes	\$1,000.00	\$978.99
652	11-Jul-12	9	8	\$23.11	Yes	\$1,000.00	\$976.89
653	11-Jul-12	9	9	\$21.94	Yes	\$1,000.00	\$978.06
654	11-Jul-12	9	10	\$23.10	Yes	\$1,000.00	\$976.90
655	11-Jul-12	9	11	\$23.20	Yes	\$1,000.00	\$976.80
656	11-Jul-12	9	12	\$24.14	Yes	\$1,000.00	\$975.86
657	11-Jul-12	10	1	\$21.70	Yes	\$1,000.00	\$978.30
658	11-Jul-12	10	2	\$21.60	Yes	\$1,000.00	\$978.40
659	11-Jul-12	10	3	\$21.54	Yes	\$1,000.00	\$978.46
660	11-Jul-12	10	4	\$21.60	Yes	\$1,000.00	\$978.40
661	11-Jul-12	10	5	\$21.72	Yes	\$1,000.00	\$978.28
662	11-Jul-12	10	6	\$21.86	Yes	\$1,000.00	\$978.14
663	11-Jul-12	10	7	\$154.68	Yes	\$1,000.00	\$845.32
664	11-Jul-12	10	8	\$28.49	Yes	\$1,000.00	\$971.51
665	11-Jul-12	10	9	\$23.51	Yes	\$1,000.00	\$976.49
666	11-Jul-12	10	10	\$111.02	Yes	\$1,000.00	\$888.98
667	11-Jul-12	10	11	\$122.71	Yes	\$1,000.00	\$877.29
668	11-Jul-12	10	12	\$25.24	Yes	\$1,000.00	\$974.76

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
669	11-Jul-12	11	1	\$43.24	Yes	\$1,000.00	\$956.76
670	11-Jul-12	11	2	\$22.38	Yes	\$1,000.00	\$977.62
671	11-Jul-12	11	3	\$18.41	Yes	\$1,000.00	\$981.59
672	11-Jul-12	11	4	\$19.31	Yes	\$1,000.00	\$980.69
673	11-Jul-12	11	5	\$21.29	Yes	\$1,000.00	\$978.71
674	11-Jul-12	11	6	\$21.44	Yes	\$1,000.00	\$978.56
675	11-Jul-12	11	7	\$21.45	Yes	\$1,000.00	\$978.55
676	11-Jul-12	11	8	\$21.39	Yes	\$1,000.00	\$978.61
677	11-Jul-12	11	9	\$21.39	Yes	\$1,000.00	\$978.61
678	11-Jul-12	11	10	\$156.89	Yes	\$1,000.00	\$843.11
679	11-Jul-12	11	11	\$156.68	Yes	\$1,000.00	\$843.32
680	11-Jul-12	11	12	\$25.25	Yes	\$1,000.00	\$974.75
681	11-Jul-12	12	1	\$23.51	Yes	\$1,000.00	\$976.49
682	11-Jul-12	12	2	\$23.53	Yes	\$1,000.00	\$976.47
683	11-Jul-12	12	3	\$24.35	Yes	\$1,000.00	\$975.65
684	11-Jul-12	12	4	\$23.28	Yes	\$1,000.00	\$976.72
685	11-Jul-12	12	5	\$23.60	Yes	\$1,000.00	\$976.40
686	11-Jul-12	12	6	\$23.96	Yes	\$1,000.00	\$976.04
687	11-Jul-12	12	7	\$25.51	Yes	\$1,000.00	\$974.49
688	11-Jul-12	12	8	\$25.15	Yes	\$1,000.00	\$974.85
689	11-Jul-12	12	9	\$25.15	Yes	\$1,000.00	\$974.85
690	11-Jul-12	12	10	\$24.06	Yes	\$1,000.00	\$975.94
691	11-Jul-12	12	11	\$23.63	Yes	\$1,000.00	\$976.37
692	11-Jul-12	12	12	\$24.88	Yes	\$1,000.00	\$975.12
693	11-Jul-12	13	1	\$23.62	Yes	\$1,000.00	\$976.38
694	11-Jul-12	13	2	\$23.62	Yes	\$1,000.00	\$976.38
695	11-Jul-12	13	3	\$23.75	Yes	\$1,000.00	\$976.25
696	11-Jul-12	13	4	\$96.92	Yes	\$1,000.00	\$903.08
697	11-Jul-12	13	5	\$119.20	Yes	\$1,000.00	\$880.80
698	11-Jul-12	13	6	\$134.04	Yes	\$1,000.00	\$865.96
699	11-Jul-12	13	7	\$23.57	Yes	\$1,000.00	\$976.43
700	11-Jul-12	13	8	\$23.57	Yes	\$1,000.00	\$976.43
701	11-Jul-12	13	9	\$23.57	Yes	\$1,000.00	\$976.43
702	11-Jul-12	13	10	\$23.59	Yes	\$1,000.00	\$976.41
703	11-Jul-12	13	11	\$23.84	Yes	\$1,000.00	\$976.16
704	11-Jul-12	13	12	\$24.16	Yes	\$1,000.00	\$975.84
705	11-Jul-12	14	1	\$22.98	Yes	\$1,000.00	\$977.02
706	11-Jul-12	14	2	\$22.98	Yes	\$1,000.00	\$977.02
707	11-Jul-12	14	3	\$23.24	Yes	\$1,000.00	\$976.76
708	11-Jul-12	14	4	\$23.26	Yes	\$1,000.00	\$976.74
709	11-Jul-12	14	5	\$23.31	Yes	\$1,000.00	\$976.69
710	11-Jul-12	14	6	\$23.48	Yes	\$1,000.00	\$976.52
711	11-Jul-12	14	7	\$24.31	Yes	\$1,000.00	\$975.69
712	11-Jul-12	14	8	\$23.52	Yes	\$1,000.00	\$976.48
713	11-Jul-12	14	9	\$24.31	Yes	\$1,000.00	\$975.69

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
714	11-Jul-12	14	10	\$24.32	Yes	\$1,000.00	\$975.68
715	11-Jul-12	14	11	\$24.62	Yes	\$1,000.00	\$975.38
716	11-Jul-12	14	12	\$28.50	Yes	\$1,000.00	\$971.50
717	11-Jul-12	15	1	\$29.48	Yes	\$1,000.00	\$970.52
718	11-Jul-12	15	2	\$28.77	Yes	\$1,000.00	\$971.23
719	11-Jul-12	15	3	\$28.77	Yes	\$1,000.00	\$971.23
720	11-Jul-12	15	4	\$28.80	Yes	\$1,000.00	\$971.20
721	11-Jul-12	15	5	\$28.80	Yes	\$1,000.00	\$971.20
722	11-Jul-12	15	6	\$28.80	Yes	\$1,000.00	\$971.20
723	11-Jul-12	15	7	\$28.79	Yes	\$1,000.00	\$971.21
724	11-Jul-12	15	8	\$28.86	Yes	\$1,000.00	\$971.14
725	11-Jul-12	15	9	\$29.14	Yes	\$1,000.00	\$970.86
726	11-Jul-12	15	10	\$28.82	Yes	\$1,000.00	\$971.18
727	11-Jul-12	15	11	\$28.82	Yes	\$1,000.00	\$971.18
728	11-Jul-12	15	12	\$28.82	Yes	\$1,000.00	\$971.18
729	11-Jul-12	16	1	\$28.82	Yes	\$1,000.00	\$971.18
730	11-Jul-12	16	2	\$28.82	Yes	\$1,000.00	\$971.18
731	11-Jul-12	16	3	\$29.24	Yes	\$1,000.00	\$970.76
732	11-Jul-12	16	4	\$25.42	Yes	\$1,000.00	\$974.58
733	11-Jul-12	16	5	\$24.89	Yes	\$1,000.00	\$975.11
734	11-Jul-12	16	6	\$26.40	Yes	\$1,000.00	\$973.60
735	11-Jul-12	16	7	\$26.73	Yes	\$1,000.00	\$973.27
736	11-Jul-12	16	8	\$26.85	Yes	\$1,000.00	\$973.15
737	11-Jul-12	16	9	\$28.14	Yes	\$1,000.00	\$971.86
738	11-Jul-12	16	10	\$23.97	Yes	\$1,000.00	\$976.03
739	11-Jul-12	16	11	\$25.46	Yes	\$1,000.00	\$974.54
740	11-Jul-12	16	12	\$24.12	Yes	\$1,000.00	\$975.88
741	11-Jul-12	17	1	\$25.31	Yes	\$1,000.00	\$974.69
742	11-Jul-12	17	2	\$26.19	Yes	\$1,000.00	\$973.81
743	11-Jul-12	17	3	\$26.86	Yes	\$1,000.00	\$973.14
744	11-Jul-12	17	4	\$28.27	Yes	\$1,000.00	\$971.73
745	11-Jul-12	17	5	\$28.61	Yes	\$1,000.00	\$971.39
746	11-Jul-12	17	6	\$28.27	Yes	\$1,000.00	\$971.73
747	11-Jul-12	17	7	\$28.27	Yes	\$1,000.00	\$971.73
748	11-Jul-12	17	8	\$26.87	Yes	\$1,000.00	\$973.13
749	11-Jul-12	17	9	\$26.38	Yes	\$1,000.00	\$973.62
750	11-Jul-12	17	10	\$24.73	Yes	\$1,000.00	\$975.27
751	11-Jul-12	17	11	\$25.38	Yes	\$1,000.00	\$974.62
752	11-Jul-12	17	12	\$26.56	Yes	\$1,000.00	\$973.44
753	11-Jul-12	18	1	\$28.26	Yes	\$1,000.00	\$971.74
754	11-Jul-12	18	2	\$26.31	Yes	\$1,000.00	\$973.69
755	11-Jul-12	18	3	\$26.25	Yes	\$1,000.00	\$973.75
756	11-Jul-12	18	4	\$27.59	Yes	\$1,000.00	\$972.41
757	11-Jul-12	18	5	\$27.82	Yes	\$1,000.00	\$972.18
758	11-Jul-12	18	6	\$28.27	Yes	\$1,000.00	\$971.73

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
759	11-Jul-12	18	7	\$28.25	Yes	\$1,000.00	\$971.75
760	11-Jul-12	18	8	\$28.24	Yes	\$1,000.00	\$971.76
761	11-Jul-12	18	9	\$28.24	Yes	\$1,000.00	\$971.76
762	11-Jul-12	18	10	\$28.09	Yes	\$1,000.00	\$971.91
763	11-Jul-12	18	11	\$28.09	Yes	\$1,000.00	\$971.91
764	11-Jul-12	18	12	\$28.09	Yes	\$1,000.00	\$971.91
765	11-Jul-12	19	1	\$27.08	Yes	\$1,000.00	\$972.92
766	11-Jul-12	19	2	\$26.71	Yes	\$1,000.00	\$973.29
767	11-Jul-12	19	3	\$27.88	Yes	\$1,000.00	\$972.12
768	11-Jul-12	19	4	\$28.10	Yes	\$1,000.00	\$971.90
769	11-Jul-12	19	5	\$28.10	Yes	\$1,000.00	\$971.90
770	11-Jul-12	19	6	\$27.92	Yes	\$1,000.00	\$972.08
771	11-Jul-12	19	7	\$26.83	Yes	\$1,000.00	\$973.17
772	11-Jul-12	19	8	\$27.01	Yes	\$1,000.00	\$972.99
773	11-Jul-12	19	9	\$26.41	Yes	\$1,000.00	\$973.59
774	11-Jul-12	19	10	\$26.25	Yes	\$1,000.00	\$973.75
775	11-Jul-12	19	11	\$25.22	Yes	\$1,000.00	\$974.78
776	11-Jul-12	19	12	\$24.17	Yes	\$1,000.00	\$975.83
777	11-Jul-12	20	1	\$23.53	Yes	\$1,000.00	\$976.47
778	11-Jul-12	20	2	\$23.53	Yes	\$1,000.00	\$976.47
779	11-Jul-12	20	3	\$23.53	Yes	\$1,000.00	\$976.47
780	11-Jul-12	20	4	\$23.43	Yes	\$1,000.00	\$976.57
781	11-Jul-12	20	5	\$23.34	Yes	\$1,000.00	\$976.66
782	11-Jul-12	20	6	\$23.28	Yes	\$1,000.00	\$976.72
783	11-Jul-12	20	7	\$23.13	Yes	\$1,000.00	\$976.87
784	11-Jul-12	20	8	\$23.39	Yes	\$1,000.00	\$976.61
785	11-Jul-12	20	9	\$23.22	Yes	\$1,000.00	\$976.78
786	11-Jul-12	20	10	\$22.28	Yes	\$1,000.00	\$977.72
787	11-Jul-12	20	11	\$21.74	Yes	\$1,000.00	\$978.26
788	11-Jul-12	20	12	\$21.74	Yes	\$1,000.00	\$978.26
789	11-Jul-12	21	1	\$21.74	Yes	\$1,000.00	\$978.26
790	11-Jul-12	21	2	\$21.74	Yes	\$1,000.00	\$978.26
791	11-Jul-12	21	3	\$23.25	Yes	\$1,000.00	\$976.75
792	11-Jul-12	21	4	\$28.85	Yes	\$1,000.00	\$971.15
793	11-Jul-12	21	5	\$27.18	Yes	\$1,000.00	\$972.82
794	11-Jul-12	21	6	\$26.74	Yes	\$1,000.00	\$973.26
795	11-Jul-12	21	7	\$26.92	Yes	\$1,000.00	\$973.08
796	11-Jul-12	21	8	\$26.78	Yes	\$1,000.00	\$973.22
797	11-Jul-12	21	9	\$26.42	Yes	\$1,000.00	\$973.58
798	11-Jul-12	21	10	\$25.36	Yes	\$1,000.00	\$974.64
799	11-Jul-12	21	11	\$24.18	Yes	\$1,000.00	\$975.82
800	11-Jul-12	21	12	\$23.71	Yes	\$1,000.00	\$976.29
801	11-Jul-12	22	1	\$23.85	Yes	\$1,000.00	\$976.15
802	11-Jul-12	22	2	\$24.11	Yes	\$1,000.00	\$975.89
803	11-Jul-12	22	3	\$23.89	Yes	\$1,000.00	\$976.11

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
804	11-Jul-12	22	4	\$21.99	Yes	\$1,000.00	\$978.01
805	11-Jul-12	22	5	\$22.24	Yes	\$1,000.00	\$977.76
806	11-Jul-12	22	6	\$22.24	Yes	\$1,000.00	\$977.76
807	11-Jul-12	22	7	\$21.75	Yes	\$1,000.00	\$978.25
808	11-Jul-12	22	8	\$21.76	Yes	\$1,000.00	\$978.24
809	11-Jul-12	22	9	\$21.30	Yes	\$1,000.00	\$978.70
810	11-Jul-12	22	10	\$21.17	Yes	\$1,000.00	\$978.83
811	11-Jul-12	22	11	\$20.49	Yes	\$1,000.00	\$979.51
812	11-Jul-12	22	12	\$18.46	Yes	\$1,000.00	\$981.54
813	11-Jul-12	23	1	\$23.27	Yes	\$1,000.00	\$976.73
814	11-Jul-12	23	2	\$22.65	Yes	\$1,000.00	\$977.35
815	11-Jul-12	23	3	\$22.66	Yes	\$1,000.00	\$977.34
816	11-Jul-12	23	4	\$21.14	Yes	\$1,000.00	\$978.86
817	11-Jul-12	23	5	\$21.80	Yes	\$1,000.00	\$978.20
818	11-Jul-12	23	6	\$20.97	Yes	\$1,000.00	\$979.03
819	11-Jul-12	23	7	\$18.83	Yes	\$1,000.00	\$981.17
820	11-Jul-12	23	8	\$19.99	Yes	\$1,000.00	\$980.01
821	11-Jul-12	23	9	\$17.89	Yes	\$1,000.00	\$982.11
822	11-Jul-12	23	10	\$12.80	Yes	\$1,000.00	\$987.20
823	11-Jul-12	23	11	\$10.75	Yes	\$1,000.00	\$989.25
824	11-Jul-12	23	12	\$9.45	Yes	\$1,000.00	\$990.55
825	11-Jul-12	24	1	\$24.05	Yes	\$1,000.00	\$975.95
826	11-Jul-12	24	2	\$23.60	Yes	\$1,000.00	\$976.40
827	11-Jul-12	24	3	\$23.60	Yes	\$1,000.00	\$976.40
828	11-Jul-12	24	4	\$27.26	Yes	\$1,000.00	\$972.74
829	11-Jul-12	24	5	\$31.32	Yes	\$1,000.00	\$968.68
830	11-Jul-12	24	6	\$26.95	Yes	\$1,000.00	\$973.05
831	11-Jul-12	24	7	\$23.71	Yes	\$1,000.00	\$976.29
832	11-Jul-12	24	8	\$20.94	Yes	\$1,000.00	\$979.06
833	11-Jul-12	24	9	\$21.31	Yes	\$1,000.00	\$978.69
834	11-Jul-12	24	10	\$20.90	Yes	\$1,000.00	\$979.10
835	11-Jul-12	24	11	\$17.35	Yes	\$1,000.00	\$982.65
836	11-Jul-12	24	12	\$9.60	Yes	\$1,000.00	\$990.40
837	18-Jul-12	11	10	\$83.09	Yes	\$1,000.00	\$916.91
838	18-Jul-12	11	11	\$65.54	Yes	\$1,000.00	\$934.46
839	18-Jul-12	11	12	\$63.81	Yes	\$1,000.00	\$936.19
840	18-Jul-12	12	1	\$139.47	Yes	\$1,000.00	\$860.53
841	18-Jul-12	12	2	\$58.32	Yes	\$1,000.00	\$941.68
842	18-Jul-12	12	3	\$24.34	Yes	\$1,000.00	\$975.66
843	18-Jul-12	12	4	\$24.42	Yes	\$1,000.00	\$975.58
844	18-Jul-12	12	5	\$24.42	Yes	\$1,000.00	\$975.58
845	18-Jul-12	12	6	\$24.45	Yes	\$1,000.00	\$975.55
846	18-Jul-12	12	7	\$55.29	Yes	\$1,000.00	\$944.71
847	18-Jul-12	12	8	\$51.73	Yes	\$1,000.00	\$948.27
848	18-Jul-12	12	9	-\$17.10	Yes	\$1,000.00	\$1,017.10

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
849	18-Jul-12	12	10	-\$20.96	Yes	\$1,000.00	\$1,020.96
850	18-Jul-12	12	11	-\$4.02	Yes	\$1,000.00	\$1,004.02
851	18-Jul-12	12	12	\$26.90	Yes	\$1,000.00	\$973.10
852	18-Jul-12	13	1	\$22.04	Yes	\$1,000.00	\$977.96
853	18-Jul-12	13	2	\$22.02	Yes	\$1,000.00	\$977.98
854	18-Jul-12	13	3	\$22.06	Yes	\$1,000.00	\$977.94
855	18-Jul-12	13	4	\$21.25	Yes	\$1,000.00	\$978.75
856	18-Jul-12	13	5	\$21.25	Yes	\$1,000.00	\$978.75
857	18-Jul-12	13	6	\$22.53	Yes	\$1,000.00	\$977.47
858	18-Jul-12	13	7	\$26.30	Yes	\$1,000.00	\$973.70
859	18-Jul-12	13	8	\$24.68	Yes	\$1,000.00	\$975.32
860	18-Jul-12	13	9	\$28.00	Yes	\$1,000.00	\$972.00
861	18-Jul-12	13	10	\$93.07	Yes	\$1,000.00	\$906.93
862	18-Jul-12	13	11	\$98.73	Yes	\$1,000.00	\$901.27
863	18-Jul-12	13	12	\$150.05	Yes	\$1,000.00	\$849.95
864	18-Jul-12	14	1	\$24.04	Yes	\$1,000.00	\$975.96
865	18-Jul-12	14	2	\$26.48	Yes	\$1,000.00	\$973.52
866	18-Jul-12	14	3	\$26.85	Yes	\$1,000.00	\$973.15
867	18-Jul-12	14	4	\$25.84	Yes	\$1,000.00	\$974.16
868	18-Jul-12	14	5	\$33.95	Yes	\$1,000.00	\$966.05
869	18-Jul-12	14	6	\$47.31	Yes	\$1,000.00	\$952.69
870	18-Jul-12	14	7	\$33.79	Yes	\$1,000.00	\$966.21
871	18-Jul-12	14	8	\$867.22	Yes	\$1,000.00	\$132.78
872	18-Jul-12	14	9	\$183.69	Yes	\$1,000.00	\$816.31
873	18-Jul-12	14	10	\$173.65	Yes	\$1,000.00	\$826.35
874	18-Jul-12	14	11	\$173.65	Yes	\$1,000.00	\$826.35
875	18-Jul-12	14	12	\$114.58	Yes	\$1,000.00	\$885.42
876	18-Jul-12	15	1	\$97.46	Yes	\$1,000.00	\$902.54
877	18-Jul-12	15	2	\$98.11	Yes	\$1,000.00	\$901.89
878	18-Jul-12	15	3	\$229.37	Yes	\$1,000.00	\$770.63
879	18-Jul-12	15	4	\$35.27	Yes	\$1,000.00	\$964.73
880	18-Jul-12	15	5	\$31.15	Yes	\$1,000.00	\$968.85
881	18-Jul-12	15	6	\$29.59	Yes	\$1,000.00	\$970.41
882	18-Jul-12	15	7	\$29.02	Yes	\$1,000.00	\$970.98
883	18-Jul-12	15	8	\$28.94	Yes	\$1,000.00	\$971.06
884	18-Jul-12	15	9	\$28.82	Yes	\$1,000.00	\$971.18
885	18-Jul-12	15	10	\$29.31	Yes	\$1,000.00	\$970.69
886	18-Jul-12	15	11	\$29.26	Yes	\$1,000.00	\$970.74
887	18-Jul-12	15	12	\$26.44	Yes	\$1,000.00	\$973.56
888	18-Jul-12	16	1	\$23.63	Yes	\$1,000.00	\$976.37
889	18-Jul-12	16	2	\$24.46	Yes	\$1,000.00	\$975.54
890	18-Jul-12	16	3	\$120.40	Yes	\$1,000.00	\$879.60
891	18-Jul-12	16	4	\$151.05	Yes	\$1,000.00	\$848.95
892	18-Jul-12	16	5	\$133.66	Yes	\$1,000.00	\$866.35
893	18-Jul-12	16	6	\$133.66	Yes	\$1,000.00	\$866.35

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
894	18-Jul-12	16	7	\$135.02	Yes	\$1,000.00	\$864.98
895	18-Jul-12	16	8	\$29.32	Yes	\$1,000.00	\$970.68
896	18-Jul-12	16	9	\$29.32	Yes	\$1,000.00	\$970.68
897	18-Jul-12	16	10	\$27.31	Yes	\$1,000.00	\$972.69
898	18-Jul-12	16	11	\$25.92	Yes	\$1,000.00	\$974.08
899	18-Jul-12	16	12	\$25.76	Yes	\$1,000.00	\$974.24
900	18-Jul-12	17	1	\$25.82	Yes	\$1,000.00	\$974.18
901	18-Jul-12	17	2	\$26.67	Yes	\$1,000.00	\$973.33
902	18-Jul-12	17	3	\$53.86	Yes	\$1,000.00	\$946.14
903	18-Jul-12	17	4	\$52.60	Yes	\$1,000.00	\$947.40
904	18-Jul-12	17	5	\$49.67	Yes	\$1,000.00	\$950.33
905	18-Jul-12	17	6	\$47.15	Yes	\$1,000.00	\$952.85
906	18-Jul-12	17	7	\$36.09	Yes	\$1,000.00	\$963.91
907	18-Jul-12	17	8	\$47.91	Yes	\$1,000.00	\$952.09
908	18-Jul-12	17	9	\$49.85	Yes	\$1,000.00	\$950.15
909	18-Jul-12	17	10	\$52.39	Yes	\$1,000.00	\$947.61
910	18-Jul-12	17	11	\$41.21	Yes	\$1,000.00	\$958.79
911	18-Jul-12	17	12	\$27.66	Yes	\$1,000.00	\$972.34
912	18-Jul-12	18	1	\$30.52	Yes	\$1,000.00	\$969.48
913	18-Jul-12	18	2	\$27.82	Yes	\$1,000.00	\$972.18
914	18-Jul-12	18	3	\$29.21	Yes	\$1,000.00	\$970.79
915	18-Jul-12	18	4	\$28.89	Yes	\$1,000.00	\$971.11
916	18-Jul-12	18	5	\$29.87	Yes	\$1,000.00	\$970.13
917	18-Jul-12	18	6	\$30.53	Yes	\$1,000.00	\$969.47
918	18-Jul-12	18	7	\$29.97	Yes	\$1,000.00	\$970.03
919	18-Jul-12	18	8	\$100.35	Yes	\$1,000.00	\$899.65
920	18-Jul-12	18	9	\$157.86	Yes	\$1,000.00	\$842.14
921	18-Jul-12	18	10	\$37.77	Yes	\$1,000.00	\$962.23
922	18-Jul-12	18	11	\$30.73	Yes	\$1,000.00	\$969.27
923	18-Jul-12	18	12	\$29.58	Yes	\$1,000.00	\$970.42
924	18-Jul-12	19	1	\$127.22	Yes	\$1,000.00	\$872.78
925	18-Jul-12	19	2	\$107.96	Yes	\$1,000.00	\$892.04
926	18-Jul-12	19	3	\$194.11	Yes	\$1,000.00	\$805.89
927	18-Jul-12	19	4	\$121.84	Yes	\$1,000.00	\$878.16
928	18-Jul-12	19	5	\$121.84	Yes	\$1,000.00	\$878.16
929	18-Jul-12	19	6	\$231.81	Yes	\$1,000.00	\$768.19
930	18-Jul-12	19	7	\$162.34	Yes	\$1,000.00	\$837.66
931	18-Jul-12	19	8	\$32.19	Yes	\$1,000.00	\$967.81
932	18-Jul-12	19	9	\$31.40	Yes	\$1,000.00	\$968.60
933	18-Jul-12	19	10	\$26.76	Yes	\$1,000.00	\$973.24
934	18-Jul-12	19	11	\$26.35	Yes	\$1,000.00	\$973.65
935	18-Jul-12	19	12	\$25.27	Yes	\$1,000.00	\$974.73
936	18-Jul-12	20	1	\$28.36	Yes	\$1,000.00	\$971.64
937	18-Jul-12	20	2	\$23.04	Yes	\$1,000.00	\$976.96
938	18-Jul-12	20	3	\$22.88	Yes	\$1,000.00	\$977.12

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
939	18-Jul-12	20	4	\$151.06	Yes	\$1,000.00	\$848.94
940	18-Jul-12	20	5	\$131.21	Yes	\$1,000.00	\$868.79
941	18-Jul-12	20	6	\$132.88	Yes	\$1,000.00	\$867.12
942	18-Jul-12	20	7	\$23.22	Yes	\$1,000.00	\$976.78
943	18-Jul-12	20	8	\$21.93	Yes	\$1,000.00	\$978.07
944	18-Jul-12	20	9	\$21.93	Yes	\$1,000.00	\$978.07
945	18-Jul-12	20	10	\$21.98	Yes	\$1,000.00	\$978.02
946	18-Jul-12	20	11	\$21.98	Yes	\$1,000.00	\$978.02
947	18-Jul-12	20	12	\$22.11	Yes	\$1,000.00	\$977.89
948	19-Jul-12	8	5	\$11.81	Yes	\$1,000.00	\$988.19
949	19-Jul-12	8	6	\$15.63	Yes	\$1,000.00	\$984.37
950	19-Jul-12	8	7	\$16.18	Yes	\$1,000.00	\$983.82
951	19-Jul-12	8	8	\$22.01	Yes	\$1,000.00	\$977.99
952	19-Jul-12	8	9	\$22.01	Yes	\$1,000.00	\$977.99
953	19-Jul-12	8	10	\$21.98	Yes	\$1,000.00	\$978.02
954	19-Jul-12	8	11	\$21.99	Yes	\$1,000.00	\$978.01
955	19-Jul-12	8	12	\$23.59	Yes	\$1,000.00	\$976.41
956	19-Jul-12	9	1	\$21.47	Yes	\$1,000.00	\$978.53
957	19-Jul-12	9	2	\$21.52	Yes	\$1,000.00	\$978.48
958	19-Jul-12	9	3	\$21.57	Yes	\$1,000.00	\$978.43
959	19-Jul-12	9	4	\$26.21	Yes	\$1,000.00	\$973.79
960	19-Jul-12	9	5	\$26.21	Yes	\$1,000.00	\$973.79
961	19-Jul-12	9	6	\$29.55	Yes	\$1,000.00	\$970.45
962	19-Jul-12	9	7	\$26.32	Yes	\$1,000.00	\$973.68
963	19-Jul-12	9	8	\$21.77	Yes	\$1,000.00	\$978.23
964	19-Jul-12	9	9	\$24.05	Yes	\$1,000.00	\$975.95
965	19-Jul-12	9	10	\$996.74	Yes	\$1,000.00	\$3.26
966	19-Jul-12	9	11	\$34.47	Yes	\$1,000.00	\$965.53
967	19-Jul-12	9	12	\$37.93	Yes	\$1,000.00	\$962.07
968	19-Jul-12	10	1	\$21.54	Yes	\$1,000.00	\$978.46
969	19-Jul-12	10	2	\$18.76	Yes	\$1,000.00	\$981.24
970	19-Jul-12	10	3	\$21.54	Yes	\$1,000.00	\$978.46
971	19-Jul-12	10	4	\$26.37	Yes	\$1,000.00	\$973.63
972	19-Jul-12	10	5	\$26.37	Yes	\$1,000.00	\$973.63
973	19-Jul-12	10	6	\$26.37	Yes	\$1,000.00	\$973.63
974	19-Jul-12	10	7	\$26.79	Yes	\$1,000.00	\$973.21
975	19-Jul-12	10	8	\$26.74	Yes	\$1,000.00	\$973.26
976	19-Jul-12	10	9	\$26.74	Yes	\$1,000.00	\$973.26
977	19-Jul-12	10	10	\$996.55	Yes	\$1,000.00	\$3.45
978	19-Jul-12	10	11	\$27.80	Yes	\$1,000.00	\$972.20
979	19-Jul-12	10	12	\$97.58	Yes	\$1,000.00	\$902.42
980	19-Jul-12	11	1	\$17.10	Yes	\$1,000.00	\$982.90
981	19-Jul-12	11	2	\$16.95	Yes	\$1,000.00	\$983.05
982	19-Jul-12	11	3	\$21.99	Yes	\$1,000.00	\$978.01
983	19-Jul-12	11	4	\$20.25	Yes	\$1,000.00	\$979.75

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
984	19-Jul-12	11	5	\$20.18	Yes	\$1,000.00	\$979.82
985	19-Jul-12	11	6	\$21.99	Yes	\$1,000.00	\$978.01
986	19-Jul-12	11	7	\$22.12	Yes	\$1,000.00	\$977.88
987	19-Jul-12	11	8	\$21.92	Yes	\$1,000.00	\$978.08
988	19-Jul-12	11	9	\$29.83	Yes	\$1,000.00	\$970.17
989	19-Jul-12	11	10	\$52.74	Yes	\$1,000.00	\$947.26
990	19-Jul-12	11	11	\$29.54	Yes	\$1,000.00	\$970.46
991	19-Jul-12	11	12	\$29.88	Yes	\$1,000.00	\$970.12
992	19-Jul-12	12	1	\$29.61	Yes	\$1,000.00	\$970.39
993	19-Jul-12	12	2	\$29.42	Yes	\$1,000.00	\$970.58
994	19-Jul-12	12	3	\$30.67	Yes	\$1,000.00	\$969.33
995	19-Jul-12	12	4	\$31.40	Yes	\$1,000.00	\$968.60
996	19-Jul-12	12	5	\$30.77	Yes	\$1,000.00	\$969.23
997	19-Jul-12	12	6	\$36.38	Yes	\$1,000.00	\$963.62
998	19-Jul-12	12	7	\$39.06	Yes	\$1,000.00	\$960.94
999	19-Jul-12	12	8	\$36.45	Yes	\$1,000.00	\$963.55
1000	19-Jul-12	12	9	\$54.77	Yes	\$1,000.00	\$945.23
1001	19-Jul-12	12	10	\$132.99	Yes	\$1,000.00	\$867.01
1002	19-Jul-12	12	11	\$36.49	Yes	\$1,000.00	\$963.51
1003	19-Jul-12	12	12	\$36.47	Yes	\$1,000.00	\$963.53
1004	19-Jul-12	13	1	\$56.98	Yes	\$1,000.00	\$943.02
1005	19-Jul-12	13	2	\$38.24	Yes	\$1,000.00	\$961.76
1006	19-Jul-12	13	3	\$28.72	Yes	\$1,000.00	\$971.28
1007	19-Jul-12	13	4	\$31.92	Yes	\$1,000.00	\$968.08
1008	19-Jul-12	13	5	\$31.92	Yes	\$1,000.00	\$968.08
1009	19-Jul-12	13	6	\$33.92	Yes	\$1,000.00	\$966.08
1010	19-Jul-12	13	7	\$35.06	Yes	\$1,000.00	\$964.94
1011	19-Jul-12	13	8	\$102.41	Yes	\$1,000.00	\$897.59
1012	19-Jul-12	13	9	\$35.05	Yes	\$1,000.00	\$964.95
1013	19-Jul-12	13	10	\$29.99	Yes	\$1,000.00	\$970.01
1014	19-Jul-12	13	11	\$56.90	Yes	\$1,000.00	\$943.10
1015	19-Jul-12	13	12	\$135.76	Yes	\$1,000.00	\$864.24
1016	19-Jul-12	14	1	\$28.53	Yes	\$1,000.00	\$971.47
1017	19-Jul-12	14	2	\$32.17	Yes	\$1,000.00	\$967.83
1018	19-Jul-12	14	3	\$32.84	Yes	\$1,000.00	\$967.16
1019	19-Jul-12	14	4	\$22.28	Yes	\$1,000.00	\$977.72
1020	19-Jul-12	14	5	\$25.05	Yes	\$1,000.00	\$974.95
1021	19-Jul-12	14	6	\$30.32	Yes	\$1,000.00	\$969.68
1022	19-Jul-12	14	7	\$25.42	Yes	\$1,000.00	\$974.58
1023	19-Jul-12	14	8	\$25.70	Yes	\$1,000.00	\$974.30
1024	19-Jul-12	14	9	\$28.57	Yes	\$1,000.00	\$971.43
1025	19-Jul-12	14	10	\$25.74	Yes	\$1,000.00	\$974.26
1026	19-Jul-12	14	11	\$30.43	Yes	\$1,000.00	\$969.57
1027	19-Jul-12	14	12	\$32.84	Yes	\$1,000.00	\$967.16
1028	19-Jul-12	15	1	\$240.70	Yes	\$1,000.00	\$759.30

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1029	19-Jul-12	15	2	\$226.43	Yes	\$1,000.00	\$773.57
1030	19-Jul-12	15	3	\$201.99	Yes	\$1,000.00	\$798.01
1031	19-Jul-12	15	4	\$265.48	Yes	\$1,000.00	\$734.52
1032	19-Jul-12	15	5	\$625.89	Yes	\$1,000.00	\$374.11
1033	19-Jul-12	15	6	\$282.93	Yes	\$1,000.00	\$717.07
1034	19-Jul-12	15	7	\$263.71	Yes	\$1,000.00	\$736.29
1035	19-Jul-12	15	8	\$33.36	Yes	\$1,000.00	\$966.64
1036	19-Jul-12	15	9	\$37.34	Yes	\$1,000.00	\$962.66
1037	19-Jul-12	15	10	\$34.77	Yes	\$1,000.00	\$965.23
1038	19-Jul-12	15	11	\$37.35	Yes	\$1,000.00	\$962.65
1039	19-Jul-12	15	12	\$37.66	Yes	\$1,000.00	\$962.34
1040	19-Jul-12	16	1	\$1,000.00	Yes	\$1,000.00	\$0.00
1041	19-Jul-12	16	2	\$1,000.00	Yes	\$1,000.00	\$0.00
1042	19-Jul-12	16	3	\$1,021.71	Yes	\$1,000.00	-\$21.71
1043	19-Jul-12	16	4	\$51.11	Yes	\$1,000.00	\$948.89
1044	19-Jul-12	16	5	\$69.71	Yes	\$1,000.00	\$930.29
1045	19-Jul-12	16	6	\$66.06	Yes	\$1,000.00	\$933.94
1046	19-Jul-12	16	7	\$60.61	Yes	\$1,000.00	\$939.39
1047	19-Jul-12	16	8	\$68.04	Yes	\$1,000.00	\$931.96
1048	19-Jul-12	16	9	\$135.25	Yes	\$1,000.00	\$864.75
1049	19-Jul-12	16	10	\$1,000.00	Yes	\$1,000.00	\$0.00
1050	19-Jul-12	16	11	\$661.55	Yes	\$1,000.00	\$338.45
1051	19-Jul-12	16	12	\$1,000.00	Yes	\$1,000.00	\$0.00
1052	19-Jul-12	17	1	\$633.84	Yes	\$1,000.00	\$366.16
1053	19-Jul-12	17	2	\$96.08	Yes	\$1,000.00	\$903.92
1054	19-Jul-12	17	3	\$49.20	Yes	\$1,000.00	\$950.80
1055	19-Jul-12	17	4	\$62.02	Yes	\$1,000.00	\$937.98
1056	19-Jul-12	17	5	\$52.49	Yes	\$1,000.00	\$947.51
1057	19-Jul-12	17	6	\$60.07	Yes	\$1,000.00	\$939.93
1058	19-Jul-12	17	7	\$50.10	Yes	\$1,000.00	\$949.90
1059	19-Jul-12	17	8	\$50.28	Yes	\$1,000.00	\$949.72
1060	19-Jul-12	17	9	\$129.94	Yes	\$1,000.00	\$870.06
1061	19-Jul-12	17	10	\$41.74	Yes	\$1,000.00	\$958.26
1062	19-Jul-12	17	11	\$38.13	Yes	\$1,000.00	\$961.87
1063	19-Jul-12	17	12	\$193.21	Yes	\$1,000.00	\$806.79
1064	19-Jul-12	18	1	\$38.49	Yes	\$1,000.00	\$961.51
1065	19-Jul-12	18	2	\$42.36	Yes	\$1,000.00	\$957.64
1066	19-Jul-12	18	3	\$1,037.40	Yes	\$1,000.00	-\$37.40
1067	19-Jul-12	18	4	\$638.86	Yes	\$1,000.00	\$361.14
1068	19-Jul-12	18	5	\$132.78	Yes	\$1,000.00	\$867.22
1069	19-Jul-12	18	6	\$49.30	Yes	\$1,000.00	\$950.70
1070	19-Jul-12	18	7	\$40.28	Yes	\$1,000.00	\$959.72
1071	19-Jul-12	18	8	\$38.15	Yes	\$1,000.00	\$961.85
1072	19-Jul-12	18	9	\$38.03	Yes	\$1,000.00	\$961.97
1073	19-Jul-12	18	10	\$32.93	Yes	\$1,000.00	\$967.07

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1074	19-Jul-12	18	11	\$38.00	Yes	\$1,000.00	\$962.00
1075	19-Jul-12	18	12	\$37.99	Yes	\$1,000.00	\$962.01
1076	19-Jul-12	19	1	\$36.41	Yes	\$1,000.00	\$963.59
1077	19-Jul-12	19	2	\$36.41	Yes	\$1,000.00	\$963.59
1078	19-Jul-12	19	3	\$26.45	Yes	\$1,000.00	\$973.55
1079	19-Jul-12	19	4	\$30.66	Yes	\$1,000.00	\$969.34
1080	19-Jul-12	19	5	\$33.24	Yes	\$1,000.00	\$966.76
1081	19-Jul-12	19	6	\$28.26	Yes	\$1,000.00	\$971.74
1082	19-Jul-12	19	7	\$32.09	Yes	\$1,000.00	\$967.91
1083	19-Jul-12	19	8	\$26.13	Yes	\$1,000.00	\$973.87
1084	19-Jul-12	19	9	\$32.93	Yes	\$1,000.00	\$967.07
1085	19-Jul-12	19	10	\$52.39	Yes	\$1,000.00	\$947.61
1086	19-Jul-12	19	11	\$35.30	Yes	\$1,000.00	\$964.70
1087	19-Jul-12	19	12	\$31.00	Yes	\$1,000.00	\$969.00
1088	19-Jul-12	20	1	\$28.40	Yes	\$1,000.00	\$971.60
1089	19-Jul-12	20	2	\$27.99	Yes	\$1,000.00	\$972.01
1090	19-Jul-12	20	3	\$25.97	Yes	\$1,000.00	\$974.03
1091	19-Jul-12	20	4	\$25.67	Yes	\$1,000.00	\$974.33
1092	19-Jul-12	20	5	\$25.67	Yes	\$1,000.00	\$974.33
1093	19-Jul-12	20	6	\$25.18	Yes	\$1,000.00	\$974.82
1094	19-Jul-12	20	7	\$24.04	Yes	\$1,000.00	\$975.96
1095	19-Jul-12	20	8	\$24.19	Yes	\$1,000.00	\$975.81
1096	19-Jul-12	20	9	\$25.23	Yes	\$1,000.00	\$974.77
1097	19-Jul-12	20	10	\$25.52	Yes	\$1,000.00	\$974.48
1098	19-Jul-12	20	11	\$25.23	Yes	\$1,000.00	\$974.77
1099	19-Jul-12	20	12	\$20.02	Yes	\$1,000.00	\$979.98
1100	19-Jul-12	21	1	\$22.13	Yes	\$1,000.00	\$977.87
1101	19-Jul-12	21	2	\$22.22	Yes	\$1,000.00	\$977.78
1102	19-Jul-12	21	3	\$24.20	Yes	\$1,000.00	\$975.80
1103	19-Jul-12	21	4	\$26.27	Yes	\$1,000.00	\$973.73
1104	19-Jul-12	21	5	\$26.29	Yes	\$1,000.00	\$973.71
1105	19-Jul-12	21	6	\$30.43	Yes	\$1,000.00	\$969.57
1106	19-Jul-12	21	7	\$37.20	Yes	\$1,000.00	\$962.80
1107	19-Jul-12	21	8	\$29.53	Yes	\$1,000.00	\$970.47
1108	19-Jul-12	21	9	\$30.09	Yes	\$1,000.00	\$969.91
1109	19-Jul-12	21	10	\$28.43	Yes	\$1,000.00	\$971.57
1110	19-Jul-12	21	11	\$27.95	Yes	\$1,000.00	\$972.05
1111	19-Jul-12	21	12	\$28.43	Yes	\$1,000.00	\$971.57
1112	19-Jul-12	22	1	\$28.02	Yes	\$1,000.00	\$971.98
1113	19-Jul-12	22	2	\$23.93	Yes	\$1,000.00	\$976.07
1114	19-Jul-12	22	3	\$24.49	Yes	\$1,000.00	\$975.51
1115	19-Jul-12	22	4	\$24.57	Yes	\$1,000.00	\$975.43
1116	19-Jul-12	22	5	\$22.83	Yes	\$1,000.00	\$977.17
1117	19-Jul-12	22	6	\$22.80	Yes	\$1,000.00	\$977.20
1118	19-Jul-12	22	7	\$22.11	Yes	\$1,000.00	\$977.89

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1119	19-Jul-12	22	8	\$19.38	Yes	\$1,000.00	\$980.62
1120	19-Jul-12	22	9	\$19.93	Yes	\$1,000.00	\$980.07
1121	19-Jul-12	22	10	\$19.52	Yes	\$1,000.00	\$980.48
1122	19-Jul-12	22	11	\$17.78	Yes	\$1,000.00	\$982.22
1123	19-Jul-12	22	12	\$17.05	Yes	\$1,000.00	\$982.95
1124	20-Jul-12	3	1	\$22.94	Yes	\$1,000.00	\$977.06
1125	20-Jul-12	3	2	\$22.94	Yes	\$1,000.00	\$977.06
1126	20-Jul-12	3	3	\$22.94	Yes	\$1,000.00	\$977.06
1127	20-Jul-12	3	4	\$21.64	Yes	\$1,000.00	\$978.36
1128	20-Jul-12	3	5	\$22.76	Yes	\$1,000.00	\$977.24
1129	20-Jul-12	3	6	\$8.85	Yes	\$1,000.00	\$991.15
1130	20-Jul-12	3	7	\$21.45	Yes	\$1,000.00	\$978.55
1131	20-Jul-12	3	8	\$8.85	Yes	\$1,000.00	\$991.15
1132	20-Jul-12	3	9	\$8.85	Yes	\$1,000.00	\$991.15
1133	20-Jul-12	3	10	\$4.56	Yes	\$1,000.00	\$995.44
1134	20-Jul-12	3	11	\$2.08	Yes	\$1,000.00	\$997.92
1135	20-Jul-12	3	12	\$1.08	Yes	\$1,000.00	\$998.92
1136	20-Jul-12	4	1	\$0.10	Yes	\$32.29	\$32.19
1137	20-Jul-12	4	2	-\$5.39	Yes	\$32.29	\$37.68
1138	20-Jul-12	4	3	-\$5.39	Yes	\$32.29	\$37.68
1139	20-Jul-12	4	4	\$2.08	Yes	\$32.29	\$30.21
1140	20-Jul-12	4	5	\$1.60	Yes	\$32.29	\$30.69
1141	20-Jul-12	4	6	\$1.06	Yes	\$32.29	\$31.23
1142	20-Jul-12	4	7	\$1.06	Yes	\$32.29	\$31.23
1143	20-Jul-12	4	8	-\$5.35	Yes	\$32.29	\$37.64
1144	20-Jul-12	4	9	\$1.05	Yes	\$32.29	\$31.24
1145	20-Jul-12	4	10	\$1.05	Yes	\$32.29	\$31.24
1146	20-Jul-12	4	11	\$0.10	Yes	\$32.29	\$32.19
1147	20-Jul-12	4	12	\$0.10	Yes	\$32.29	\$32.19
1148	20-Jul-12	5	1	\$0.10	Yes	\$1,000.00	\$999.90
1149	20-Jul-12	5	2	\$0.10	Yes	\$1,000.00	\$999.90
1150	20-Jul-12	5	3	\$1.05	Yes	\$1,000.00	\$998.95
1151	20-Jul-12	5	4	\$1.07	Yes	\$1,000.00	\$998.93
1152	20-Jul-12	5	5	\$1.60	Yes	\$1,000.00	\$998.40
1153	20-Jul-12	5	6	\$1.60	Yes	\$1,000.00	\$998.40
1154	20-Jul-12	5	7	\$1.61	Yes	\$1,000.00	\$998.39
1155	20-Jul-12	5	8	\$2.10	Yes	\$1,000.00	\$997.90
1156	20-Jul-12	5	9	\$2.10	Yes	\$1,000.00	\$997.90
1157	20-Jul-12	5	10	\$2.10	Yes	\$1,000.00	\$997.90
1158	20-Jul-12	5	11	\$2.10	Yes	\$1,000.00	\$997.90
1159	20-Jul-12	5	12	\$1.61	Yes	\$1,000.00	\$998.39
1160	20-Jul-12	6	1	\$0.10	Yes	\$1,000.00	\$999.90
1161	20-Jul-12	6	2	\$1.05	Yes	\$1,000.00	\$998.95
1162	20-Jul-12	6	3	\$1.08	Yes	\$1,000.00	\$998.92
1163	20-Jul-12	6	4	\$2.10	Yes	\$1,000.00	\$997.90

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1164	20-Jul-12	6	5	\$5.29	Yes	\$1,000.00	\$994.71
1165	20-Jul-12	6	6	\$8.77	Yes	\$1,000.00	\$991.23
1166	20-Jul-12	6	7	\$16.16	Yes	\$1,000.00	\$983.84
1167	20-Jul-12	6	8	\$16.03	Yes	\$1,000.00	\$983.97
1168	20-Jul-12	6	9	\$16.03	Yes	\$1,000.00	\$983.97
1169	20-Jul-12	6	10	\$20.10	Yes	\$1,000.00	\$979.90
1170	20-Jul-12	6	11	\$16.03	Yes	\$1,000.00	\$983.97
1171	20-Jul-12	6	12	\$22.56	Yes	\$1,000.00	\$977.44
1172	20-Jul-12	7	1	\$16.12	Yes	\$1,000.00	\$983.88
1173	20-Jul-12	7	2	\$1.07	Yes	\$1,000.00	\$998.93
1174	20-Jul-12	7	3	\$22.59	Yes	\$1,000.00	\$977.41
1175	20-Jul-12	7	4	\$1.06	Yes	\$1,000.00	\$998.94
1176	20-Jul-12	7	5	\$1.04	Yes	\$1,000.00	\$998.96
1177	20-Jul-12	7	6	\$7.77	Yes	\$1,000.00	\$992.23
1178	20-Jul-12	7	7	\$5.47	Yes	\$1,000.00	\$994.53
1179	20-Jul-12	7	8	\$7.85	Yes	\$1,000.00	\$992.15
1180	20-Jul-12	7	9	\$22.43	Yes	\$1,000.00	\$977.57
1181	20-Jul-12	7	10	\$21.56	Yes	\$1,000.00	\$978.44
1182	20-Jul-12	7	11	\$22.52	Yes	\$1,000.00	\$977.48
1183	20-Jul-12	7	12	\$22.55	Yes	\$1,000.00	\$977.45
1184	20-Jul-12	8	1	\$11.08	Yes	\$32.29	\$21.21
1185	20-Jul-12	8	2	\$12.21	Yes	\$32.29	\$20.08
1186	20-Jul-12	8	3	\$22.39	Yes	\$32.29	\$9.90
1187	20-Jul-12	8	4	\$22.46	Yes	\$32.29	\$9.83
1188	20-Jul-12	8	5	\$23.00	Yes	\$32.29	\$9.29
1189	20-Jul-12	8	6	\$23.07	Yes	\$32.29	\$9.22
1190	20-Jul-12	8	7	\$23.15	Yes	\$32.29	\$9.14
1191	20-Jul-12	8	8	\$23.08	Yes	\$32.29	\$9.21
1192	20-Jul-12	8	9	\$26.31	Yes	\$32.29	\$5.98
1193	20-Jul-12	8	10	\$24.47	Yes	\$32.29	\$7.82
1194	20-Jul-12	8	11	\$24.11	Yes	\$32.29	\$8.18
1195	20-Jul-12	8	12	\$25.77	Yes	\$32.29	\$6.52
1196	20-Jul-12	9	1	\$26.59	Yes	\$1,000.00	\$973.41
1197	20-Jul-12	9	2	\$23.18	Yes	\$1,000.00	\$976.82
1198	20-Jul-12	9	3	\$23.18	Yes	\$1,000.00	\$976.82
1199	20-Jul-12	9	4	\$22.51	Yes	\$1,000.00	\$977.49
1200	20-Jul-12	9	5	\$22.84	Yes	\$1,000.00	\$977.16
1201	20-Jul-12	9	6	\$23.19	Yes	\$1,000.00	\$976.81
1202	20-Jul-12	9	7	\$23.83	Yes	\$1,000.00	\$976.17
1203	20-Jul-12	9	8	\$23.21	Yes	\$1,000.00	\$976.79
1204	20-Jul-12	9	9	\$23.95	Yes	\$1,000.00	\$976.05
1205	20-Jul-12	9	10	\$46.95	Yes	\$1,000.00	\$953.05
1206	20-Jul-12	9	11	\$34.05	Yes	\$1,000.00	\$965.95
1207	20-Jul-12	9	12	\$46.95	Yes	\$1,000.00	\$953.05
1208	20-Jul-12	10	1	\$22.86	Yes	\$1,000.00	\$977.14

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1209	20-Jul-12	10	2	\$22.83	Yes	\$1,000.00	\$977.17
1210	20-Jul-12	10	3	\$22.86	Yes	\$1,000.00	\$977.14
1211	20-Jul-12	10	4	\$23.20	Yes	\$1,000.00	\$976.80
1212	20-Jul-12	10	5	\$23.30	Yes	\$1,000.00	\$976.70
1213	20-Jul-12	10	6	\$26.86	Yes	\$1,000.00	\$973.14
1214	20-Jul-12	10	7	\$28.14	Yes	\$1,000.00	\$971.86
1215	20-Jul-12	10	8	\$30.26	Yes	\$1,000.00	\$969.74
1216	20-Jul-12	10	9	\$30.26	Yes	\$1,000.00	\$969.74
1217	20-Jul-12	10	10	\$30.78	Yes	\$1,000.00	\$969.22
1218	20-Jul-12	10	11	\$30.84	Yes	\$1,000.00	\$969.16
1219	20-Jul-12	10	12	\$36.85	Yes	\$1,000.00	\$963.15
1220	20-Jul-12	11	1	\$22.97	Yes	\$1,000.00	\$977.03
1221	20-Jul-12	11	2	\$23.16	Yes	\$1,000.00	\$976.84
1222	20-Jul-12	11	3	\$23.16	Yes	\$1,000.00	\$976.84
1223	20-Jul-12	11	4	\$23.20	Yes	\$1,000.00	\$976.80
1224	20-Jul-12	11	5	\$23.20	Yes	\$1,000.00	\$976.80
1225	20-Jul-12	11	6	\$23.20	Yes	\$1,000.00	\$976.80
1226	20-Jul-12	11	7	\$23.17	Yes	\$1,000.00	\$976.83
1227	20-Jul-12	11	8	\$24.30	Yes	\$1,000.00	\$975.70
1228	20-Jul-12	11	9	\$27.29	Yes	\$1,000.00	\$972.71
1229	20-Jul-12	11	10	\$27.32	Yes	\$1,000.00	\$972.68
1230	20-Jul-12	11	11	\$27.32	Yes	\$1,000.00	\$972.68
1231	20-Jul-12	11	12	\$27.99	Yes	\$1,000.00	\$972.01
1232	20-Jul-12	12	1	\$26.87	Yes	\$1,000.00	\$973.13
1233	20-Jul-12	12	2	\$26.87	Yes	\$1,000.00	\$973.13
1234	20-Jul-12	12	3	\$26.87	Yes	\$1,000.00	\$973.13
1235	20-Jul-12	12	4	\$29.13	Yes	\$1,000.00	\$970.87
1236	20-Jul-12	12	5	\$29.13	Yes	\$1,000.00	\$970.87
1237	20-Jul-12	12	6	\$29.40	Yes	\$1,000.00	\$970.60
1238	20-Jul-12	12	7	\$29.49	Yes	\$1,000.00	\$970.51
1239	20-Jul-12	12	8	\$31.08	Yes	\$1,000.00	\$968.92
1240	20-Jul-12	12	9	\$30.72	Yes	\$1,000.00	\$969.28
1241	20-Jul-12	12	10	\$31.10	Yes	\$1,000.00	\$968.90
1242	20-Jul-12	12	11	\$31.95	Yes	\$1,000.00	\$968.05
1243	20-Jul-12	12	12	\$36.88	Yes	\$1,000.00	\$963.12
1244	20-Jul-12	13	1	\$25.25	Yes	\$1,000.00	\$974.75
1245	20-Jul-12	13	2	\$25.30	Yes	\$1,000.00	\$974.70
1246	20-Jul-12	13	3	\$27.05	Yes	\$1,000.00	\$972.95
1247	20-Jul-12	13	4	\$26.83	Yes	\$1,000.00	\$973.17
1248	20-Jul-12	13	5	\$25.94	Yes	\$1,000.00	\$974.06
1249	20-Jul-12	13	6	\$27.09	Yes	\$1,000.00	\$972.91
1250	20-Jul-12	13	7	\$27.64	Yes	\$1,000.00	\$972.36
1251	20-Jul-12	13	8	\$30.20	Yes	\$1,000.00	\$969.80
1252	20-Jul-12	13	9	\$30.71	Yes	\$1,000.00	\$969.29
1253	20-Jul-12	13	10	\$30.72	Yes	\$1,000.00	\$969.28

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1254	20-Jul-12	13	11	\$33.45	Yes	\$1,000.00	\$966.55
1255	20-Jul-12	13	12	\$35.56	Yes	\$1,000.00	\$964.44
1256	20-Jul-12	14	1	\$27.53	Yes	\$1,000.00	\$972.47
1257	20-Jul-12	14	2	\$29.95	Yes	\$1,000.00	\$970.05
1258	20-Jul-12	14	3	\$30.74	Yes	\$1,000.00	\$969.26
1259	20-Jul-12	14	4	\$30.72	Yes	\$1,000.00	\$969.28
1260	20-Jul-12	14	5	\$33.39	Yes	\$1,000.00	\$966.61
1261	20-Jul-12	14	6	\$33.48	Yes	\$1,000.00	\$966.52
1262	20-Jul-12	14	7	\$31.15	Yes	\$1,000.00	\$968.85
1263	20-Jul-12	14	8	\$33.20	Yes	\$1,000.00	\$966.80
1264	20-Jul-12	14	9	\$34.24	Yes	\$1,000.00	\$965.76
1265	20-Jul-12	14	10	\$37.41	Yes	\$1,000.00	\$962.59
1266	20-Jul-12	14	11	\$37.87	Yes	\$1,000.00	\$962.13
1267	20-Jul-12	14	12	\$39.53	Yes	\$1,000.00	\$960.47
1268	20-Jul-12	15	1	\$33.43	Yes	\$1,000.00	\$966.57
1269	20-Jul-12	15	2	\$33.41	Yes	\$1,000.00	\$966.59
1270	20-Jul-12	15	3	\$38.10	Yes	\$1,000.00	\$961.90
1271	20-Jul-12	15	4	\$45.51	Yes	\$1,000.00	\$954.49
1272	20-Jul-12	15	5	\$33.46	Yes	\$1,000.00	\$966.54
1273	20-Jul-12	15	6	\$33.47	Yes	\$1,000.00	\$966.53
1274	20-Jul-12	15	7	\$33.46	Yes	\$1,000.00	\$966.54
1275	20-Jul-12	15	8	\$32.49	Yes	\$1,000.00	\$967.51
1276	20-Jul-12	15	9	\$32.76	Yes	\$1,000.00	\$967.24
1277	20-Jul-12	15	10	\$33.35	Yes	\$1,000.00	\$966.65
1278	20-Jul-12	15	11	\$33.49	Yes	\$1,000.00	\$966.51
1279	20-Jul-12	15	12	\$33.29	Yes	\$1,000.00	\$966.71
1280	20-Jul-12	16	1	\$33.34	Yes	\$1,000.00	\$966.66
1281	20-Jul-12	16	2	\$44.70	Yes	\$1,000.00	\$955.30
1282	20-Jul-12	16	3	\$43.26	Yes	\$1,000.00	\$956.74
1283	20-Jul-12	16	4	\$49.11	Yes	\$1,000.00	\$950.89
1284	20-Jul-12	16	5	\$54.61	Yes	\$1,000.00	\$945.39
1285	20-Jul-12	16	6	\$55.53	Yes	\$1,000.00	\$944.47
1286	20-Jul-12	16	7	\$54.72	Yes	\$1,000.00	\$945.28
1287	20-Jul-12	16	8	\$49.00	Yes	\$1,000.00	\$951.00
1288	20-Jul-12	16	9	\$49.00	Yes	\$1,000.00	\$951.00
1289	20-Jul-12	16	10	\$54.44	Yes	\$1,000.00	\$945.56
1290	20-Jul-12	16	11	\$48.96	Yes	\$1,000.00	\$951.04
1291	20-Jul-12	16	12	\$48.96	Yes	\$1,000.00	\$951.04
1292	20-Jul-12	17	1	\$51.94	Yes	\$1,000.00	\$948.06
1293	20-Jul-12	17	2	\$49.13	Yes	\$1,000.00	\$950.87
1294	20-Jul-12	17	3	\$49.13	Yes	\$1,000.00	\$950.87
1295	20-Jul-12	17	4	\$1,014.10	Yes	\$1,000.00	-\$14.10
1296	20-Jul-12	17	5	\$1,000.00	Yes	\$1,000.00	\$0.00
1297	20-Jul-12	17	6	\$1,014.10	Yes	\$1,000.00	-\$14.10
1298	20-Jul-12	17	7	\$1,043.44	Yes	\$1,000.00	-\$43.44

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1299	20-Jul-12	17	8	\$54.68	Yes	\$1,000.00	\$945.32
1300	20-Jul-12	17	9	\$476.63	Yes	\$1,000.00	\$523.37
1301	20-Jul-12	17	10	\$1,042.97	Yes	\$1,000.00	-\$42.97
1302	20-Jul-12	17	11	\$220.55	Yes	\$1,000.00	\$779.45
1303	20-Jul-12	17	12	\$48.68	Yes	\$1,000.00	\$951.32
1304	20-Jul-12	18	1	\$55.76	Yes	\$1,000.00	\$944.24
1305	20-Jul-12	18	2	\$40.16	Yes	\$1,000.00	\$959.84
1306	20-Jul-12	18	3	\$55.76	Yes	\$1,000.00	\$944.24
1307	20-Jul-12	18	4	\$1,000.00	Yes	\$1,000.00	\$0.00
1308	20-Jul-12	18	5	\$67.42	Yes	\$1,000.00	\$932.58
1309	20-Jul-12	18	6	\$39.65	Yes	\$1,000.00	\$960.35
1310	20-Jul-12	18	7	\$36.08	Yes	\$1,000.00	\$963.92
1311	20-Jul-12	18	8	\$33.76	Yes	\$1,000.00	\$966.24
1312	20-Jul-12	18	9	\$33.02	Yes	\$1,000.00	\$966.98
1313	20-Jul-12	18	10	\$32.70	Yes	\$1,000.00	\$967.30
1314	20-Jul-12	18	11	\$29.70	Yes	\$1,000.00	\$970.30
1315	20-Jul-12	18	12	\$28.60	Yes	\$1,000.00	\$971.40
1316	20-Jul-12	19	1	\$40.25	Yes	\$1,000.00	\$959.75
1317	20-Jul-12	19	2	\$52.43	Yes	\$1,000.00	\$947.57
1318	20-Jul-12	19	3	\$54.37	Yes	\$1,000.00	\$945.63
1319	20-Jul-12	19	4	\$55.10	Yes	\$1,000.00	\$944.90
1320	20-Jul-12	19	5	\$48.75	Yes	\$1,000.00	\$951.25
1321	20-Jul-12	19	6	\$33.14	Yes	\$1,000.00	\$966.86
1322	20-Jul-12	19	7	\$33.07	Yes	\$1,000.00	\$966.93
1323	20-Jul-12	19	8	\$28.58	Yes	\$1,000.00	\$971.42
1324	20-Jul-12	19	9	\$28.58	Yes	\$1,000.00	\$971.42
1325	20-Jul-12	19	10	\$32.78	Yes	\$1,000.00	\$967.22
1326	20-Jul-12	19	11	\$29.84	Yes	\$1,000.00	\$970.16
1327	20-Jul-12	19	12	\$28.63	Yes	\$1,000.00	\$971.37
1328	20-Jul-12	20	1	\$37.96	Yes	\$1,000.00	\$962.04
1329	20-Jul-12	20	2	\$35.57	Yes	\$1,000.00	\$964.43
1330	20-Jul-12	20	3	\$35.57	Yes	\$1,000.00	\$964.43
1331	20-Jul-12	20	4	\$34.84	Yes	\$1,000.00	\$965.16
1332	20-Jul-12	20	5	\$28.52	Yes	\$1,000.00	\$971.48
1333	20-Jul-12	20	6	\$27.03	Yes	\$1,000.00	\$972.97
1334	20-Jul-12	20	7	\$24.80	Yes	\$1,000.00	\$975.20
1335	20-Jul-12	20	8	\$23.07	Yes	\$1,000.00	\$976.93
1336	20-Jul-12	20	9	\$23.15	Yes	\$1,000.00	\$976.85
1337	20-Jul-12	20	10	\$23.15	Yes	\$1,000.00	\$976.85
1338	20-Jul-12	20	11	\$23.01	Yes	\$1,000.00	\$976.99
1339	20-Jul-12	20	12	\$21.17	Yes	\$1,000.00	\$978.83
1340	20-Jul-12	21	1	\$25.08	Yes	\$1,000.00	\$974.92
1341	20-Jul-12	21	2	\$27.04	Yes	\$1,000.00	\$972.96
1342	20-Jul-12	21	3	\$31.94	Yes	\$1,000.00	\$968.06
1343	20-Jul-12	21	4	\$30.12	Yes	\$1,000.00	\$969.88

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1344	20-Jul-12	21	5	\$34.20	Yes	\$1,000.00	\$965.80
1345	20-Jul-12	21	6	\$27.37	Yes	\$1,000.00	\$972.63
1346	20-Jul-12	21	7	\$29.91	Yes	\$1,000.00	\$970.09
1347	20-Jul-12	21	8	\$29.97	Yes	\$1,000.00	\$970.03
1348	20-Jul-12	21	9	\$25.01	Yes	\$1,000.00	\$974.99
1349	20-Jul-12	21	10	\$27.01	Yes	\$1,000.00	\$972.99
1350	20-Jul-12	21	11	\$27.10	Yes	\$1,000.00	\$972.90
1351	20-Jul-12	21	12	\$27.38	Yes	\$1,000.00	\$972.62
1352	20-Jul-12	22	1	\$25.13	Yes	\$1,000.00	\$974.87
1353	20-Jul-12	22	2	\$24.29	Yes	\$1,000.00	\$975.71
1354	20-Jul-12	22	3	\$23.09	Yes	\$1,000.00	\$976.91
1355	20-Jul-12	22	4	\$20.45	Yes	\$1,000.00	\$979.55
1356	20-Jul-12	22	5	\$19.25	Yes	\$1,000.00	\$980.75
1357	20-Jul-12	22	6	\$20.94	Yes	\$1,000.00	\$979.06
1358	20-Jul-12	22	7	\$21.08	Yes	\$1,000.00	\$978.92
1359	20-Jul-12	22	8	\$21.08	Yes	\$1,000.00	\$978.92
1360	20-Jul-12	22	9	\$21.19	Yes	\$1,000.00	\$978.81
1361	20-Jul-12	22	10	\$19.30	Yes	\$1,000.00	\$980.70
1362	20-Jul-12	22	11	\$19.04	Yes	\$1,000.00	\$980.96
1363	20-Jul-12	22	12	\$17.09	Yes	\$1,000.00	\$982.91
1364	20-Jul-12	23	1	\$25.65	Yes	\$1,000.00	\$974.35
1365	20-Jul-12	23	2	\$23.05	Yes	\$1,000.00	\$976.95
1366	20-Jul-12	23	3	\$28.44	Yes	\$1,000.00	\$971.56
1367	20-Jul-12	23	4	\$20.83	Yes	\$1,000.00	\$979.17
1368	20-Jul-12	23	5	\$21.38	Yes	\$1,000.00	\$978.62
1369	20-Jul-12	23	6	\$20.83	Yes	\$1,000.00	\$979.17
1370	20-Jul-12	23	7	\$20.67	Yes	\$1,000.00	\$979.33
1371	20-Jul-12	23	8	\$21.14	Yes	\$1,000.00	\$978.86
1372	20-Jul-12	23	9	\$21.14	Yes	\$1,000.00	\$978.86
1373	20-Jul-12	23	10	\$21.10	Yes	\$1,000.00	\$978.90
1374	20-Jul-12	23	11	\$16.98	Yes	\$1,000.00	\$983.02
1375	20-Jul-12	23	12	\$11.12	Yes	\$1,000.00	\$988.88
1376	20-Jul-12	24	1	\$22.71	Yes	\$1,000.00	\$977.29
1377	20-Jul-12	24	2	\$31.92	Yes	\$1,000.00	\$968.08
1378	20-Jul-12	24	3	\$27.49	Yes	\$1,000.00	\$972.51
1379	20-Jul-12	24	4	\$27.60	Yes	\$1,000.00	\$972.40
1380	20-Jul-12	24	5	\$27.35	Yes	\$1,000.00	\$972.65
1381	20-Jul-12	24	6	\$25.48	Yes	\$1,000.00	\$974.52
1382	20-Jul-12	24	7	\$24.13	Yes	\$1,000.00	\$975.87
1383	20-Jul-12	24	8	\$22.79	Yes	\$1,000.00	\$977.21
1384	20-Jul-12	24	9	\$21.23	Yes	\$1,000.00	\$978.77
1385	20-Jul-12	24	10	\$22.67	Yes	\$1,000.00	\$977.33
1386	20-Jul-12	24	11	\$22.68	Yes	\$1,000.00	\$977.32
1387	20-Jul-12	24	12	\$20.28	Yes	\$1,000.00	\$979.72
1388	21-Jul-12	13	5	\$31.98	Yes	\$1,000.00	\$968.02

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1389	21-Jul-12	13	6	\$31.98	Yes	\$1,000.00	\$968.02
1390	21-Jul-12	13	7	\$31.46	Yes	\$1,000.00	\$968.54
1391	21-Jul-12	13	8	\$34.24	Yes	\$1,000.00	\$965.76
1392	21-Jul-12	13	9	\$41.16	Yes	\$1,000.00	\$958.84
1393	21-Jul-12	13	10	\$72.82	Yes	\$1,000.00	\$927.18
1394	21-Jul-12	13	11	\$130.44	Yes	\$1,000.00	\$869.56
1395	21-Jul-12	13	12	\$1,004.90	Yes	\$1,000.00	-\$4.90
1396	21-Jul-12	14	1	\$33.49	Yes	\$1,000.00	\$966.51
1397	21-Jul-12	14	2	\$30.34	Yes	\$1,000.00	\$969.66
1398	21-Jul-12	14	3	\$29.26	Yes	\$1,000.00	\$970.74
1399	21-Jul-12	14	4	\$27.92	Yes	\$1,000.00	\$972.08
1400	21-Jul-12	14	5	\$29.16	Yes	\$1,000.00	\$970.84
1401	21-Jul-12	14	6	\$29.16	Yes	\$1,000.00	\$970.84
1402	21-Jul-12	14	7	\$35.79	Yes	\$1,000.00	\$964.21
1403	21-Jul-12	14	8	\$35.72	Yes	\$1,000.00	\$964.28
1404	21-Jul-12	14	9	\$40.92	Yes	\$1,000.00	\$959.08
1405	21-Jul-12	14	10	\$35.71	Yes	\$1,000.00	\$964.29
1406	21-Jul-12	14	11	\$40.93	Yes	\$1,000.00	\$959.07
1407	21-Jul-12	14	12	\$129.42	Yes	\$1,000.00	\$870.58
1408	21-Jul-12	15	1	\$35.94	Yes	\$1,000.00	\$964.06
1409	21-Jul-12	15	2	\$31.61	Yes	\$1,000.00	\$968.39
1410	21-Jul-12	15	3	\$31.61	Yes	\$1,000.00	\$968.39
1411	21-Jul-12	15	4	\$59.01	Yes	\$1,000.00	\$940.99
1412	21-Jul-12	15	5	\$41.50	Yes	\$1,000.00	\$958.50
1413	21-Jul-12	15	6	\$53.34	Yes	\$1,000.00	\$946.66
1414	21-Jul-12	15	7	\$49.95	Yes	\$1,000.00	\$950.05
1415	21-Jul-12	15	8	\$50.19	Yes	\$1,000.00	\$949.81
1416	21-Jul-12	15	9	\$72.45	Yes	\$1,000.00	\$927.55
1417	21-Jul-12	15	10	\$49.88	Yes	\$1,000.00	\$950.12
1418	21-Jul-12	15	11	\$47.42	Yes	\$1,000.00	\$952.58
1419	21-Jul-12	15	12	\$95.82	Yes	\$1,000.00	\$904.18
1420	21-Jul-12	16	1	\$41.82	Yes	\$1,000.00	\$958.18
1421	21-Jul-12	16	2	\$47.29	Yes	\$1,000.00	\$952.71
1422	21-Jul-12	16	3	\$47.29	Yes	\$1,000.00	\$952.71
1423	21-Jul-12	16	4	\$33.67	Yes	\$1,000.00	\$966.33
1424	21-Jul-12	16	5	\$33.72	Yes	\$1,000.00	\$966.28
1425	21-Jul-12	16	6	\$34.24	Yes	\$1,000.00	\$965.76
1426	21-Jul-12	16	7	\$33.73	Yes	\$1,000.00	\$966.27
1427	21-Jul-12	16	8	\$33.73	Yes	\$1,000.00	\$966.27
1428	21-Jul-12	16	9	\$33.86	Yes	\$1,000.00	\$966.14
1429	21-Jul-12	16	10	\$131.93	Yes	\$1,000.00	\$868.07
1430	21-Jul-12	16	11	\$60.48	Yes	\$1,000.00	\$939.52
1431	21-Jul-12	16	12	\$41.78	Yes	\$1,000.00	\$958.22
1432	21-Jul-12	17	1	\$41.78	Yes	\$1,000.00	\$958.22
1433	21-Jul-12	17	2	\$37.97	Yes	\$1,000.00	\$962.03

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1434	21-Jul-12	17	3	\$51.62	Yes	\$1,000.00	\$948.38
1435	21-Jul-12	17	4	\$38.72	Yes	\$1,000.00	\$961.28
1436	21-Jul-12	17	5	\$41.47	Yes	\$1,000.00	\$958.53
1437	21-Jul-12	17	6	\$1,007.30	Yes	\$1,000.00	-\$7.30
1438	21-Jul-12	17	7	\$1,008.60	Yes	\$1,000.00	-\$8.60
1439	21-Jul-12	17	8	\$41.22	Yes	\$1,000.00	\$958.78
1440	21-Jul-12	17	9	\$1,000.00	Yes	\$1,000.00	\$0.00
1441	21-Jul-12	17	10	\$128.40	Yes	\$1,000.00	\$871.60
1442	21-Jul-12	17	11	\$42.64	Yes	\$1,000.00	\$957.36
1443	21-Jul-12	17	12	\$33.67	Yes	\$1,000.00	\$966.33
1444	21-Jul-12	18	1	\$396.75	Yes	\$1,000.00	\$603.25
1445	21-Jul-12	18	2	\$129.39	Yes	\$1,000.00	\$870.61
1446	21-Jul-12	18	3	\$461.45	Yes	\$1,000.00	\$538.55
1447	21-Jul-12	18	4	\$464.42	Yes	\$1,000.00	\$535.58
1448	21-Jul-12	18	5	\$130.26	Yes	\$1,000.00	\$869.74
1449	21-Jul-12	18	6	\$57.10	Yes	\$1,000.00	\$942.90
1450	21-Jul-12	18	7	\$459.23	Yes	\$1,000.00	\$540.77
1451	21-Jul-12	18	8	\$37.31	Yes	\$1,000.00	\$962.69
1452	21-Jul-12	18	9	\$41.47	Yes	\$1,000.00	\$958.53
1453	21-Jul-12	18	10	\$51.38	Yes	\$1,000.00	\$948.62
1454	21-Jul-12	18	11	\$41.33	Yes	\$1,000.00	\$958.67
1455	21-Jul-12	18	12	\$131.46	Yes	\$1,000.00	\$868.54
1456	21-Jul-12	19	1	\$66.92	Yes	\$1,000.00	\$933.08
1457	21-Jul-12	19	2	\$128.75	Yes	\$1,000.00	\$871.25
1458	21-Jul-12	19	3	\$41.15	Yes	\$1,000.00	\$958.85
1459	21-Jul-12	19	4	\$34.61	Yes	\$1,000.00	\$965.39
1460	21-Jul-12	19	5	\$33.31	Yes	\$1,000.00	\$966.69
1461	21-Jul-12	19	6	\$33.05	Yes	\$1,000.00	\$966.95
1462	21-Jul-12	19	7	\$31.29	Yes	\$1,000.00	\$968.71
1463	21-Jul-12	19	8	\$30.00	Yes	\$1,000.00	\$970.00
1464	21-Jul-12	19	9	\$29.18	Yes	\$1,000.00	\$970.82
1465	21-Jul-12	19	10	\$29.02	Yes	\$1,000.00	\$970.98
1466	21-Jul-12	19	11	\$30.00	Yes	\$1,000.00	\$970.00
1467	21-Jul-12	19	12	\$35.86	Yes	\$1,000.00	\$964.14
1468	21-Jul-12	20	1	\$31.75	Yes	\$1,000.00	\$968.25
1469	21-Jul-12	20	2	\$31.03	Yes	\$1,000.00	\$968.97
1470	21-Jul-12	20	3	\$28.97	Yes	\$1,000.00	\$971.03
1471	21-Jul-12	20	4	\$49.74	Yes	\$1,000.00	\$950.26
1472	21-Jul-12	20	5	\$37.65	Yes	\$1,000.00	\$962.35
1473	21-Jul-12	20	6	\$39.03	Yes	\$1,000.00	\$960.97
1474	21-Jul-12	20	7	\$40.42	Yes	\$1,000.00	\$959.58
1475	21-Jul-12	20	8	\$32.77	Yes	\$1,000.00	\$967.23
1476	21-Jul-12	20	9	\$32.51	Yes	\$1,000.00	\$967.49
1477	21-Jul-12	20	10	\$28.96	Yes	\$1,000.00	\$971.04
1478	21-Jul-12	20	11	\$27.49	Yes	\$1,000.00	\$972.51

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1479	21-Jul-12	20	12	\$28.24	Yes	\$1,000.00	\$971.76
1480	21-Jul-12	21	1	\$37.23	Yes	\$1,000.00	\$962.77
1481	21-Jul-12	21	2	\$32.68	Yes	\$1,000.00	\$967.32
1482	21-Jul-12	21	3	\$29.79	Yes	\$1,000.00	\$970.21
1483	21-Jul-12	21	4	\$35.94	Yes	\$1,000.00	\$964.06
1484	21-Jul-12	21	5	\$39.70	Yes	\$1,000.00	\$960.30
1485	21-Jul-12	21	6	\$42.53	Yes	\$1,000.00	\$957.47
1486	21-Jul-12	21	7	\$39.70	Yes	\$1,000.00	\$960.30
1487	21-Jul-12	21	8	\$40.93	Yes	\$1,000.00	\$959.07
1488	21-Jul-12	21	9	\$32.91	Yes	\$1,000.00	\$967.09
1489	21-Jul-12	21	10	\$30.88	Yes	\$1,000.00	\$969.12
1490	21-Jul-12	21	11	\$28.35	Yes	\$1,000.00	\$971.65
1491	21-Jul-12	21	12	\$28.35	Yes	\$1,000.00	\$971.65
1492	22-Jul-12	12	8	\$25.60	Yes	\$1,000.00	\$974.40
1493	22-Jul-12	12	9	\$26.53	Yes	\$1,000.00	\$973.47
1494	22-Jul-12	12	10	\$29.47	Yes	\$1,000.00	\$970.53
1495	22-Jul-12	12	11	\$29.47	Yes	\$1,000.00	\$970.53
1496	22-Jul-12	12	12	\$34.50	Yes	\$1,000.00	\$965.50
1497	22-Jul-12	13	1	\$23.44	Yes	\$1,000.00	\$976.56
1498	22-Jul-12	13	2	\$23.50	Yes	\$1,000.00	\$976.50
1499	22-Jul-12	13	3	\$23.72	Yes	\$1,000.00	\$976.28
1500	22-Jul-12	13	4	\$23.62	Yes	\$1,000.00	\$976.38
1501	22-Jul-12	13	5	\$23.30	Yes	\$1,000.00	\$976.70
1502	22-Jul-12	13	6	\$23.27	Yes	\$1,000.00	\$976.73
1503	22-Jul-12	13	7	\$23.28	Yes	\$1,000.00	\$976.72
1504	22-Jul-12	13	8	\$23.43	Yes	\$1,000.00	\$976.57
1505	22-Jul-12	13	9	\$23.55	Yes	\$1,000.00	\$976.45
1506	22-Jul-12	13	10	\$28.62	Yes	\$1,000.00	\$971.38
1507	22-Jul-12	13	11	\$28.62	Yes	\$1,000.00	\$971.38
1508	22-Jul-12	13	12	\$32.69	Yes	\$1,000.00	\$967.31
1509	22-Jul-12	14	1	\$21.12	Yes	\$1,000.00	\$978.88
1510	22-Jul-12	14	2	\$23.22	Yes	\$1,000.00	\$976.78
1511	22-Jul-12	14	3	\$23.22	Yes	\$1,000.00	\$976.78
1512	22-Jul-12	14	4	\$23.95	Yes	\$1,000.00	\$976.05
1513	22-Jul-12	14	5	\$24.32	Yes	\$1,000.00	\$975.68
1514	22-Jul-12	14	6	\$24.32	Yes	\$1,000.00	\$975.68
1515	22-Jul-12	14	7	\$24.99	Yes	\$1,000.00	\$975.01
1516	22-Jul-12	14	8	\$25.64	Yes	\$1,000.00	\$974.36
1517	22-Jul-12	14	9	\$27.12	Yes	\$1,000.00	\$972.88
1518	22-Jul-12	14	10	\$28.53	Yes	\$1,000.00	\$971.47
1519	22-Jul-12	14	11	\$30.56	Yes	\$1,000.00	\$969.44
1520	22-Jul-12	14	12	\$32.59	Yes	\$1,000.00	\$967.41
1521	22-Jul-12	15	1	\$26.82	Yes	\$1,000.00	\$973.18
1522	22-Jul-12	15	2	\$26.32	Yes	\$1,000.00	\$973.68
1523	22-Jul-12	15	3	\$23.90	Yes	\$1,000.00	\$976.10

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1524	22-Jul-12	15	4	\$27.55	Yes	\$1,000.00	\$972.45
1525	22-Jul-12	15	5	\$27.55	Yes	\$1,000.00	\$972.45
1526	22-Jul-12	15	6	\$27.55	Yes	\$1,000.00	\$972.45
1527	22-Jul-12	15	7	\$30.47	Yes	\$1,000.00	\$969.53
1528	22-Jul-12	15	8	\$30.28	Yes	\$1,000.00	\$969.72
1529	22-Jul-12	15	9	\$30.32	Yes	\$1,000.00	\$969.68
1530	22-Jul-12	15	10	\$28.91	Yes	\$1,000.00	\$971.09
1531	22-Jul-12	15	11	\$28.53	Yes	\$1,000.00	\$971.47
1532	22-Jul-12	15	12	\$28.54	Yes	\$1,000.00	\$971.46
1533	22-Jul-12	16	1	\$28.32	Yes	\$1,000.00	\$971.68
1534	22-Jul-12	16	2	\$28.80	Yes	\$1,000.00	\$971.20
1535	22-Jul-12	16	3	\$28.99	Yes	\$1,000.00	\$971.01
1536	22-Jul-12	16	4	\$26.51	Yes	\$1,000.00	\$973.49
1537	22-Jul-12	16	5	\$24.99	Yes	\$1,000.00	\$975.01
1538	22-Jul-12	16	6	\$25.51	Yes	\$1,000.00	\$974.49
1539	22-Jul-12	16	7	\$25.56	Yes	\$1,000.00	\$974.44
1540	22-Jul-12	16	8	\$25.76	Yes	\$1,000.00	\$974.24
1541	22-Jul-12	16	9	\$27.13	Yes	\$1,000.00	\$972.87
1542	22-Jul-12	16	10	\$27.05	Yes	\$1,000.00	\$972.95
1543	22-Jul-12	16	11	\$27.05	Yes	\$1,000.00	\$972.95
1544	22-Jul-12	16	12	\$26.00	Yes	\$1,000.00	\$974.00
1545	22-Jul-12	17	1	\$25.01	Yes	\$1,000.00	\$974.99
1546	22-Jul-12	17	2	\$25.03	Yes	\$1,000.00	\$974.97
1547	22-Jul-12	17	3	\$25.05	Yes	\$1,000.00	\$974.95
1548	22-Jul-12	17	4	\$28.06	Yes	\$1,000.00	\$971.94
1549	22-Jul-12	17	5	\$27.76	Yes	\$1,000.00	\$972.24
1550	22-Jul-12	17	6	\$33.69	Yes	\$1,000.00	\$966.31
1551	22-Jul-12	17	7	\$33.64	Yes	\$1,000.00	\$966.36
1552	22-Jul-12	17	8	\$29.87	Yes	\$1,000.00	\$970.13
1553	22-Jul-12	17	9	\$29.87	Yes	\$1,000.00	\$970.13
1554	22-Jul-12	17	10	\$30.37	Yes	\$1,000.00	\$969.63
1555	22-Jul-12	17	11	\$29.81	Yes	\$1,000.00	\$970.19
1556	22-Jul-12	17	12	\$29.81	Yes	\$1,000.00	\$970.19
1557	22-Jul-12	18	1	\$28.14	Yes	\$1,000.00	\$971.86
1558	22-Jul-12	18	2	\$27.86	Yes	\$1,000.00	\$972.14
1559	22-Jul-12	18	3	\$29.13	Yes	\$1,000.00	\$970.87
1560	22-Jul-12	18	4	\$32.45	Yes	\$1,000.00	\$967.55
1561	22-Jul-12	18	5	\$38.34	Yes	\$1,000.00	\$961.66
1562	22-Jul-12	18	6	\$38.34	Yes	\$1,000.00	\$961.66
1563	22-Jul-12	18	7	\$31.32	Yes	\$1,000.00	\$968.68
1564	22-Jul-12	18	8	\$31.99	Yes	\$1,000.00	\$968.01
1565	22-Jul-12	18	9	\$31.65	Yes	\$1,000.00	\$968.35
1566	22-Jul-12	18	10	\$33.68	Yes	\$1,000.00	\$966.32
1567	22-Jul-12	18	11	\$30.68	Yes	\$1,000.00	\$969.32
1568	22-Jul-12	18	12	\$29.98	Yes	\$1,000.00	\$970.02

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1569	22-Jul-12	19	1	\$34.88	Yes	\$1,000.00	\$965.12
1570	22-Jul-12	19	2	\$42.50	Yes	\$1,000.00	\$957.50
1571	22-Jul-12	19	3	\$40.30	Yes	\$1,000.00	\$959.70
1572	22-Jul-12	19	4	\$41.89	Yes	\$1,000.00	\$958.11
1573	22-Jul-12	19	5	\$42.93	Yes	\$1,000.00	\$957.07
1574	22-Jul-12	19	6	\$32.78	Yes	\$1,000.00	\$967.22
1575	22-Jul-12	19	7	\$33.71	Yes	\$1,000.00	\$966.29
1576	22-Jul-12	19	8	\$32.90	Yes	\$1,000.00	\$967.10
1577	22-Jul-12	19	9	\$32.90	Yes	\$1,000.00	\$967.10
1578	22-Jul-12	19	10	\$32.62	Yes	\$1,000.00	\$967.38
1579	22-Jul-12	19	11	\$29.90	Yes	\$1,000.00	\$970.10
1580	22-Jul-12	19	12	\$29.14	Yes	\$1,000.00	\$970.86
1581	22-Jul-12	20	1	\$23.39	Yes	\$1,000.00	\$976.61
1582	22-Jul-12	20	2	\$23.39	Yes	\$1,000.00	\$976.61
1583	22-Jul-12	20	3	\$23.39	Yes	\$1,000.00	\$976.61
1584	22-Jul-12	20	4	\$24.27	Yes	\$1,000.00	\$975.73
1585	22-Jul-12	20	5	\$24.23	Yes	\$1,000.00	\$975.77
1586	22-Jul-12	20	6	\$24.27	Yes	\$1,000.00	\$975.73
1587	22-Jul-12	20	7	\$23.84	Yes	\$1,000.00	\$976.16
1588	22-Jul-12	20	8	\$24.45	Yes	\$1,000.00	\$975.55
1589	22-Jul-12	20	9	\$24.68	Yes	\$1,000.00	\$975.32
1590	22-Jul-12	20	10	\$24.63	Yes	\$1,000.00	\$975.37
1591	22-Jul-12	20	11	\$24.53	Yes	\$1,000.00	\$975.47
1592	22-Jul-12	20	12	\$20.33	Yes	\$1,000.00	\$979.67
1593	22-Jul-12	21	1	\$23.95	Yes	\$1,000.00	\$976.05
1594	22-Jul-12	21	2	\$24.97	Yes	\$1,000.00	\$975.03
1595	22-Jul-12	21	3	\$25.16	Yes	\$1,000.00	\$974.84
1596	22-Jul-12	21	4	\$25.09	Yes	\$1,000.00	\$974.91
1597	22-Jul-12	21	5	\$25.83	Yes	\$1,000.00	\$974.17
1598	22-Jul-12	21	6	\$26.15	Yes	\$1,000.00	\$973.85
1599	22-Jul-12	21	7	\$27.48	Yes	\$1,000.00	\$972.52
1600	22-Jul-12	21	8	\$27.22	Yes	\$1,000.00	\$972.78
1601	22-Jul-12	21	9	\$27.50	Yes	\$1,000.00	\$972.50
1602	22-Jul-12	21	10	\$27.63	Yes	\$1,000.00	\$972.37
1603	22-Jul-12	21	11	\$27.46	Yes	\$1,000.00	\$972.54
1604	22-Jul-12	21	12	\$23.85	Yes	\$1,000.00	\$976.15
1605	22-Jul-12	22	1	\$23.90	Yes	\$1,000.00	\$976.10
1606	22-Jul-12	22	2	\$21.40	Yes	\$1,000.00	\$978.60
1607	22-Jul-12	22	3	\$21.40	Yes	\$1,000.00	\$978.60
1608	22-Jul-12	22	4	\$21.45	Yes	\$1,000.00	\$978.55
1609	22-Jul-12	22	5	\$23.00	Yes	\$1,000.00	\$977.00
1610	22-Jul-12	22	6	\$23.00	Yes	\$1,000.00	\$977.00
1611	22-Jul-12	22	7	\$20.71	Yes	\$1,000.00	\$979.29
1612	22-Jul-12	22	8	\$20.74	Yes	\$1,000.00	\$979.26
1613	22-Jul-12	22	9	\$20.74	Yes	\$1,000.00	\$979.26

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1614	22-Jul-12	22	10	\$17.06	Yes	\$1,000.00	\$982.94
1615	22-Jul-12	22	11	\$15.70	Yes	\$1,000.00	\$984.30
1616	22-Jul-12	22	12	\$12.79	Yes	\$1,000.00	\$987.21
1617	23-Jul-12	3	1	\$8.75	Yes	\$1,000.00	\$991.25
1618	23-Jul-12	3	2	\$10.77	Yes	\$1,000.00	\$989.23
1619	23-Jul-12	3	3	\$21.34	Yes	\$1,000.00	\$978.66
1620	23-Jul-12	3	4	\$21.22	Yes	\$1,000.00	\$978.78
1621	23-Jul-12	3	5	\$21.19	Yes	\$1,000.00	\$978.81
1622	23-Jul-12	3	6	\$17.64	Yes	\$1,000.00	\$982.36
1623	23-Jul-12	3	7	\$24.75	Yes	\$1,000.00	\$975.25
1624	23-Jul-12	3	8	\$22.85	Yes	\$1,000.00	\$977.15
1625	23-Jul-12	3	9	\$22.68	Yes	\$1,000.00	\$977.32
1626	23-Jul-12	3	10	\$22.67	Yes	\$1,000.00	\$977.33
1627	23-Jul-12	3	11	\$22.71	Yes	\$1,000.00	\$977.29
1628	23-Jul-12	3	12	\$22.67	Yes	\$1,000.00	\$977.33
1629	23-Jul-12	4	1	\$21.93	Yes	\$1,000.00	\$978.07
1630	23-Jul-12	4	2	\$21.18	Yes	\$1,000.00	\$978.82
1631	23-Jul-12	4	3	\$21.93	Yes	\$1,000.00	\$978.07
1632	23-Jul-12	4	4	\$21.35	Yes	\$1,000.00	\$978.65
1633	23-Jul-12	4	5	\$21.28	Yes	\$1,000.00	\$978.72
1634	23-Jul-12	4	6	\$21.28	Yes	\$1,000.00	\$978.72
1635	23-Jul-12	4	7	\$21.28	Yes	\$1,000.00	\$978.72
1636	23-Jul-12	4	8	\$22.00	Yes	\$1,000.00	\$978.00
1637	23-Jul-12	4	9	\$21.28	Yes	\$1,000.00	\$978.72
1638	23-Jul-12	4	10	\$21.19	Yes	\$1,000.00	\$978.81
1639	23-Jul-12	4	11	\$21.19	Yes	\$1,000.00	\$978.81
1640	23-Jul-12	4	12	\$21.19	Yes	\$1,000.00	\$978.81
1641	23-Jul-12	5	1	\$21.28	Yes	\$1,000.00	\$978.72
1642	23-Jul-12	5	2	\$22.15	Yes	\$1,000.00	\$977.85
1643	23-Jul-12	5	3	\$23.25	Yes	\$1,000.00	\$976.75
1644	23-Jul-12	5	4	\$26.15	Yes	\$1,000.00	\$973.85
1645	23-Jul-12	5	5	\$25.93	Yes	\$1,000.00	\$974.07
1646	23-Jul-12	5	6	\$23.34	Yes	\$1,000.00	\$976.66
1647	23-Jul-12	5	7	\$26.16	Yes	\$1,000.00	\$973.84
1648	23-Jul-12	5	8	\$26.13	Yes	\$1,000.00	\$973.87
1649	23-Jul-12	5	9	\$26.13	Yes	\$1,000.00	\$973.87
1650	23-Jul-12	5	10	\$26.90	Yes	\$1,000.00	\$973.10
1651	23-Jul-12	5	11	\$26.90	Yes	\$1,000.00	\$973.10
1652	23-Jul-12	5	12	\$27.54	Yes	\$1,000.00	\$972.46
1653	23-Jul-12	6	1	\$21.29	Yes	\$1,000.00	\$978.71
1654	23-Jul-12	6	2	\$22.79	Yes	\$1,000.00	\$977.21
1655	23-Jul-12	6	3	\$22.79	Yes	\$1,000.00	\$977.21
1656	23-Jul-12	6	4	\$22.71	Yes	\$1,000.00	\$977.29
1657	23-Jul-12	6	5	\$22.16	Yes	\$1,000.00	\$977.84
1658	23-Jul-12	6	6	\$22.69	Yes	\$1,000.00	\$977.31

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1659	23-Jul-12	6	7	\$23.22	Yes	\$1,000.00	\$976.78
1660	23-Jul-12	6	8	\$23.31	Yes	\$1,000.00	\$976.69
1661	23-Jul-12	6	9	\$23.31	Yes	\$1,000.00	\$976.69
1662	23-Jul-12	6	10	\$25.01	Yes	\$1,000.00	\$974.99
1663	23-Jul-12	6	11	\$23.29	Yes	\$1,000.00	\$976.71
1664	23-Jul-12	6	12	\$25.41	Yes	\$1,000.00	\$974.59
1665	23-Jul-12	7	1	\$20.31	Yes	\$1,000.00	\$979.69
1666	23-Jul-12	7	2	\$18.19	Yes	\$1,000.00	\$981.81
1667	23-Jul-12	7	3	\$23.10	Yes	\$1,000.00	\$976.90
1668	23-Jul-12	7	4	\$21.48	Yes	\$1,000.00	\$978.52
1669	23-Jul-12	7	5	\$21.52	Yes	\$1,000.00	\$978.48
1670	23-Jul-12	7	6	\$21.52	Yes	\$1,000.00	\$978.48
1671	23-Jul-12	7	7	\$21.56	Yes	\$1,000.00	\$978.44
1672	23-Jul-12	7	8	\$21.58	Yes	\$1,000.00	\$978.42
1673	23-Jul-12	7	9	\$21.58	Yes	\$1,000.00	\$978.42
1674	23-Jul-12	7	10	\$23.31	Yes	\$1,000.00	\$976.69
1675	23-Jul-12	7	11	\$23.19	Yes	\$1,000.00	\$976.81
1676	23-Jul-12	7	12	\$26.07	Yes	\$1,000.00	\$973.93
1677	23-Jul-12	8	1	\$10.85	Yes	\$1,000.00	\$989.15
1678	23-Jul-12	8	2	\$15.54	Yes	\$1,000.00	\$984.46
1679	23-Jul-12	8	3	\$21.44	Yes	\$1,000.00	\$978.56
1680	23-Jul-12	8	4	\$21.47	Yes	\$1,000.00	\$978.53
1681	23-Jul-12	8	5	\$21.78	Yes	\$1,000.00	\$978.22
1682	23-Jul-12	8	6	\$23.22	Yes	\$1,000.00	\$976.78
1683	23-Jul-12	8	7	\$23.37	Yes	\$1,000.00	\$976.63
1684	23-Jul-12	8	8	\$25.77	Yes	\$1,000.00	\$974.23
1685	23-Jul-12	8	9	\$23.38	Yes	\$1,000.00	\$976.62
1686	23-Jul-12	8	10	\$23.42	Yes	\$1,000.00	\$976.58
1687	23-Jul-12	8	11	\$23.42	Yes	\$1,000.00	\$976.58
1688	23-Jul-12	8	12	\$25.78	Yes	\$1,000.00	\$974.22
1689	23-Jul-12	9	1	\$21.85	Yes	\$1,000.00	\$978.15
1690	23-Jul-12	9	2	\$21.85	Yes	\$1,000.00	\$978.15
1691	23-Jul-12	9	3	\$23.10	Yes	\$1,000.00	\$976.90
1692	23-Jul-12	9	4	\$23.24	Yes	\$1,000.00	\$976.76
1693	23-Jul-12	9	5	\$23.41	Yes	\$1,000.00	\$976.59
1694	23-Jul-12	9	6	\$23.41	Yes	\$1,000.00	\$976.59
1695	23-Jul-12	9	7	\$24.91	Yes	\$1,000.00	\$975.09
1696	23-Jul-12	9	8	\$23.52	Yes	\$1,000.00	\$976.48
1697	23-Jul-12	9	9	\$23.52	Yes	\$1,000.00	\$976.48
1698	23-Jul-12	9	10	\$25.02	Yes	\$1,000.00	\$974.98
1699	23-Jul-12	9	11	\$24.43	Yes	\$1,000.00	\$975.57
1700	23-Jul-12	9	12	\$25.27	Yes	\$1,000.00	\$974.73
1701	23-Jul-12	10	1	\$22.59	Yes	\$1,000.00	\$977.41
1702	23-Jul-12	10	2	\$21.88	Yes	\$1,000.00	\$978.12
1703	23-Jul-12	10	3	\$21.88	Yes	\$1,000.00	\$978.12

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1704	23-Jul-12	10	4	\$22.61	Yes	\$1,000.00	\$977.39
1705	23-Jul-12	10	5	\$21.98	Yes	\$1,000.00	\$978.02
1706	23-Jul-12	10	6	\$21.98	Yes	\$1,000.00	\$978.02
1707	23-Jul-12	10	7	\$21.97	Yes	\$1,000.00	\$978.03
1708	23-Jul-12	10	8	\$22.12	Yes	\$1,000.00	\$977.88
1709	23-Jul-12	10	9	\$23.25	Yes	\$1,000.00	\$976.75
1710	23-Jul-12	10	10	\$23.29	Yes	\$1,000.00	\$976.71
1711	23-Jul-12	10	11	\$23.29	Yes	\$1,000.00	\$976.71
1712	23-Jul-12	10	12	\$23.31	Yes	\$1,000.00	\$976.69
1713	23-Jul-12	11	1	\$21.79	Yes	\$1,000.00	\$978.21
1714	23-Jul-12	11	2	\$21.68	Yes	\$1,000.00	\$978.32
1715	23-Jul-12	11	3	\$21.68	Yes	\$1,000.00	\$978.32
1716	23-Jul-12	11	4	\$22.27	Yes	\$1,000.00	\$977.73
1717	23-Jul-12	11	5	\$21.71	Yes	\$1,000.00	\$978.29
1718	23-Jul-12	11	6	\$21.71	Yes	\$1,000.00	\$978.29
1719	23-Jul-12	11	7	\$22.95	Yes	\$1,000.00	\$977.05
1720	23-Jul-12	11	8	\$22.13	Yes	\$1,000.00	\$977.87
1721	23-Jul-12	11	9	\$22.13	Yes	\$1,000.00	\$977.87
1722	23-Jul-12	11	10	\$22.34	Yes	\$1,000.00	\$977.66
1723	23-Jul-12	11	11	\$22.34	Yes	\$1,000.00	\$977.66
1724	23-Jul-12	11	12	\$22.22	Yes	\$1,000.00	\$977.78
1725	23-Jul-12	12	1	\$21.63	Yes	\$1,000.00	\$978.37
1726	23-Jul-12	12	2	\$21.63	Yes	\$1,000.00	\$978.37
1727	23-Jul-12	12	3	\$21.63	Yes	\$1,000.00	\$978.37
1728	23-Jul-12	12	4	\$21.55	Yes	\$1,000.00	\$978.45
1729	23-Jul-12	12	5	\$21.67	Yes	\$1,000.00	\$978.33
1730	23-Jul-12	12	6	\$21.59	Yes	\$1,000.00	\$978.41
1731	23-Jul-12	12	7	\$21.79	Yes	\$1,000.00	\$978.21
1732	23-Jul-12	12	8	\$21.87	Yes	\$1,000.00	\$978.13
1733	23-Jul-12	12	9	\$21.81	Yes	\$1,000.00	\$978.19
1734	23-Jul-12	12	10	\$22.01	Yes	\$1,000.00	\$977.99
1735	23-Jul-12	12	11	\$22.86	Yes	\$1,000.00	\$977.14
1736	23-Jul-12	12	12	\$23.44	Yes	\$1,000.00	\$976.56
1737	23-Jul-12	13	1	\$22.03	Yes	\$1,000.00	\$977.97
1738	23-Jul-12	13	2	\$22.65	Yes	\$1,000.00	\$977.35
1739	23-Jul-12	13	3	\$21.67	Yes	\$1,000.00	\$978.33
1740	23-Jul-12	13	4	\$21.65	Yes	\$1,000.00	\$978.35
1741	23-Jul-12	13	5	\$21.65	Yes	\$1,000.00	\$978.35
1742	23-Jul-12	13	6	\$21.65	Yes	\$1,000.00	\$978.35
1743	23-Jul-12	13	7	\$22.23	Yes	\$1,000.00	\$977.77
1744	23-Jul-12	13	8	\$21.76	Yes	\$1,000.00	\$978.24
1745	23-Jul-12	13	9	\$21.91	Yes	\$1,000.00	\$978.09
1746	23-Jul-12	13	10	\$22.91	Yes	\$1,000.00	\$977.09
1747	23-Jul-12	13	11	\$22.90	Yes	\$1,000.00	\$977.10
1748	23-Jul-12	13	12	\$23.43	Yes	\$1,000.00	\$976.57

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1749	23-Jul-12	14	1	\$20.55	Yes	\$1,000.00	\$979.45
1750	23-Jul-12	14	2	\$21.26	Yes	\$1,000.00	\$978.74
1751	23-Jul-12	14	3	\$20.81	Yes	\$1,000.00	\$979.19
1752	23-Jul-12	14	4	\$21.62	Yes	\$1,000.00	\$978.38
1753	23-Jul-12	14	5	\$21.62	Yes	\$1,000.00	\$978.38
1754	23-Jul-12	14	6	\$21.62	Yes	\$1,000.00	\$978.38
1755	23-Jul-12	14	7	\$21.60	Yes	\$1,000.00	\$978.40
1756	23-Jul-12	14	8	\$21.87	Yes	\$1,000.00	\$978.13
1757	23-Jul-12	14	9	\$22.05	Yes	\$1,000.00	\$977.95
1758	23-Jul-12	14	10	\$21.67	Yes	\$1,000.00	\$978.33
1759	23-Jul-12	14	11	\$21.87	Yes	\$1,000.00	\$978.13
1760	23-Jul-12	14	12	\$22.79	Yes	\$1,000.00	\$977.21
1761	23-Jul-12	15	1	\$20.54	Yes	\$1,000.00	\$979.46
1762	23-Jul-12	15	2	\$20.64	Yes	\$1,000.00	\$979.36
1763	23-Jul-12	15	3	\$20.25	Yes	\$1,000.00	\$979.75
1764	23-Jul-12	15	4	\$20.17	Yes	\$1,000.00	\$979.83
1765	23-Jul-12	15	5	\$20.26	Yes	\$1,000.00	\$979.74
1766	23-Jul-12	15	6	\$20.17	Yes	\$1,000.00	\$979.83
1767	23-Jul-12	15	7	\$20.16	Yes	\$1,000.00	\$979.84
1768	23-Jul-12	15	8	\$20.03	Yes	\$1,000.00	\$979.97
1769	23-Jul-12	15	9	\$20.37	Yes	\$1,000.00	\$979.63
1770	23-Jul-12	15	10	\$20.17	Yes	\$1,000.00	\$979.83
1771	23-Jul-12	15	11	\$21.03	Yes	\$1,000.00	\$978.97
1772	23-Jul-12	15	12	\$21.03	Yes	\$1,000.00	\$978.97
1773	23-Jul-12	16	1	\$21.56	Yes	\$1,000.00	\$978.44
1774	23-Jul-12	16	2	\$21.55	Yes	\$1,000.00	\$978.45
1775	23-Jul-12	16	3	\$20.36	Yes	\$1,000.00	\$979.64
1776	23-Jul-12	16	4	\$21.55	Yes	\$1,000.00	\$978.45
1777	23-Jul-12	16	5	\$21.44	Yes	\$1,000.00	\$978.56
1778	23-Jul-12	16	6	\$20.84	Yes	\$1,000.00	\$979.16
1779	23-Jul-12	16	7	\$20.55	Yes	\$1,000.00	\$979.45
1780	23-Jul-12	16	8	\$20.83	Yes	\$1,000.00	\$979.17
1781	23-Jul-12	16	9	\$21.07	Yes	\$1,000.00	\$978.93
1782	23-Jul-12	16	10	\$21.07	Yes	\$1,000.00	\$978.93
1783	23-Jul-12	16	11	\$21.07	Yes	\$1,000.00	\$978.93
1784	23-Jul-12	16	12	\$21.07	Yes	\$1,000.00	\$978.93
1785	23-Jul-12	17	1	\$20.69	Yes	\$1,000.00	\$979.31
1786	23-Jul-12	17	2	\$20.56	Yes	\$1,000.00	\$979.44
1787	23-Jul-12	17	3	\$20.30	Yes	\$1,000.00	\$979.70
1788	23-Jul-12	17	4	\$20.23	Yes	\$1,000.00	\$979.77
1789	23-Jul-12	17	5	\$20.51	Yes	\$1,000.00	\$979.49
1790	23-Jul-12	17	6	\$20.51	Yes	\$1,000.00	\$979.49
1791	23-Jul-12	17	7	\$20.22	Yes	\$1,000.00	\$979.78
1792	23-Jul-12	17	8	\$20.02	Yes	\$1,000.00	\$979.98
1793	23-Jul-12	17	9	\$20.23	Yes	\$1,000.00	\$979.77

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1794	23-Jul-12	17	10	\$20.32	Yes	\$1,000.00	\$979.68
1795	23-Jul-12	17	11	\$20.07	Yes	\$1,000.00	\$979.93
1796	23-Jul-12	17	12	\$20.07	Yes	\$1,000.00	\$979.93
1797	23-Jul-12	18	1	\$18.02	Yes	\$1,000.00	\$981.98
1798	23-Jul-12	18	2	\$18.02	Yes	\$1,000.00	\$981.98
1799	23-Jul-12	18	3	\$18.81	Yes	\$1,000.00	\$981.19
1800	23-Jul-12	18	4	\$20.15	Yes	\$1,000.00	\$979.85
1801	23-Jul-12	18	5	\$19.79	Yes	\$1,000.00	\$980.21
1802	23-Jul-12	18	6	\$19.06	Yes	\$1,000.00	\$980.94
1803	23-Jul-12	18	7	\$19.01	Yes	\$1,000.00	\$980.99
1804	23-Jul-12	18	8	\$18.79	Yes	\$1,000.00	\$981.21
1805	23-Jul-12	18	9	\$20.63	Yes	\$1,000.00	\$979.37
1806	23-Jul-12	18	10	\$20.31	Yes	\$1,000.00	\$979.69
1807	23-Jul-12	18	11	\$20.25	Yes	\$1,000.00	\$979.75
1808	23-Jul-12	18	12	\$20.47	Yes	\$1,000.00	\$979.53
1809	23-Jul-12	19	1	\$19.80	Yes	\$1,000.00	\$980.20
1810	23-Jul-12	19	2	\$20.07	Yes	\$1,000.00	\$979.93
1811	23-Jul-12	19	3	\$20.07	Yes	\$1,000.00	\$979.93
1812	23-Jul-12	19	4	\$20.07	Yes	\$1,000.00	\$979.93
1813	23-Jul-12	19	5	\$19.42	Yes	\$1,000.00	\$980.58
1814	23-Jul-12	19	6	\$19.42	Yes	\$1,000.00	\$980.58
1815	23-Jul-12	19	7	\$19.39	Yes	\$1,000.00	\$980.61
1816	23-Jul-12	19	8	\$19.37	Yes	\$1,000.00	\$980.63
1817	23-Jul-12	19	9	\$19.37	Yes	\$1,000.00	\$980.63
1818	23-Jul-12	19	10	\$19.39	Yes	\$1,000.00	\$980.61
1819	23-Jul-12	19	11	\$18.79	Yes	\$1,000.00	\$981.21
1820	23-Jul-12	19	12	\$16.82	Yes	\$1,000.00	\$983.18
1821	23-Jul-12	20	1	\$20.38	Yes	\$1,000.00	\$979.62
1822	23-Jul-12	20	2	\$20.11	Yes	\$1,000.00	\$979.89
1823	23-Jul-12	20	3	\$20.54	Yes	\$1,000.00	\$979.46
1824	23-Jul-12	20	4	\$20.57	Yes	\$1,000.00	\$979.43
1825	23-Jul-12	20	5	\$20.56	Yes	\$1,000.00	\$979.44
1826	23-Jul-12	20	6	\$20.56	Yes	\$1,000.00	\$979.44
1827	23-Jul-12	20	7	\$18.87	Yes	\$1,000.00	\$981.13
1828	23-Jul-12	20	8	\$17.12	Yes	\$1,000.00	\$982.88
1829	23-Jul-12	20	9	\$16.86	Yes	\$1,000.00	\$983.14
1830	23-Jul-12	20	10	\$17.11	Yes	\$1,000.00	\$982.89
1831	23-Jul-12	20	11	\$16.91	Yes	\$1,000.00	\$983.09
1832	23-Jul-12	20	12	\$16.60	Yes	\$1,000.00	\$983.40
1833	23-Jul-12	21	1	\$17.45	Yes	\$1,000.00	\$982.55
1834	23-Jul-12	21	2	\$17.45	Yes	\$1,000.00	\$982.55
1835	23-Jul-12	21	3	\$18.54	Yes	\$1,000.00	\$981.46
1836	23-Jul-12	21	4	\$20.49	Yes	\$1,000.00	\$979.51
1837	23-Jul-12	21	5	\$21.50	Yes	\$1,000.00	\$978.50
1838	23-Jul-12	21	6	\$20.87	Yes	\$1,000.00	\$979.13

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1839	23-Jul-12	21	7	\$20.75	Yes	\$1,000.00	\$979.25
1840	23-Jul-12	21	8	\$21.52	Yes	\$1,000.00	\$978.48
1841	23-Jul-12	21	9	\$21.17	Yes	\$1,000.00	\$978.83
1842	23-Jul-12	21	10	\$20.70	Yes	\$1,000.00	\$979.30
1843	23-Jul-12	21	11	\$20.87	Yes	\$1,000.00	\$979.13
1844	23-Jul-12	21	12	\$19.22	Yes	\$1,000.00	\$980.78
1845	23-Jul-12	22	1	\$23.22	Yes	\$1,000.00	\$976.78
1846	23-Jul-12	22	2	\$22.16	Yes	\$1,000.00	\$977.84
1847	23-Jul-12	22	3	\$22.16	Yes	\$1,000.00	\$977.84
1848	23-Jul-12	22	4	\$20.66	Yes	\$1,000.00	\$979.34
1849	23-Jul-12	22	5	\$21.44	Yes	\$1,000.00	\$978.56
1850	23-Jul-12	22	6	\$21.49	Yes	\$1,000.00	\$978.51
1851	23-Jul-12	22	7	\$21.49	Yes	\$1,000.00	\$978.51
1852	23-Jul-12	22	8	\$20.05	Yes	\$1,000.00	\$979.95
1853	23-Jul-12	22	9	\$17.09	Yes	\$1,000.00	\$982.91
1854	23-Jul-12	22	10	\$21.46	Yes	\$1,000.00	\$978.54
1855	23-Jul-12	22	11	\$13.22	Yes	\$1,000.00	\$986.78
1856	23-Jul-12	22	12	\$13.07	Yes	\$1,000.00	\$986.93
1857	23-Jul-12	23	1	\$46.69	Yes	\$1,000.00	\$953.31
1858	23-Jul-12	23	2	\$25.62	Yes	\$1,000.00	\$974.38
1859	23-Jul-12	23	3	\$31.97	Yes	\$1,000.00	\$968.03
1860	23-Jul-12	23	4	\$23.47	Yes	\$1,000.00	\$976.53
1861	23-Jul-12	23	5	\$23.28	Yes	\$1,000.00	\$976.72
1862	23-Jul-12	23	6	\$21.56	Yes	\$1,000.00	\$978.44
1863	23-Jul-12	23	7	\$20.97	Yes	\$1,000.00	\$979.03
1864	23-Jul-12	23	8	\$22.02	Yes	\$1,000.00	\$977.98
1865	23-Jul-12	23	9	\$17.76	Yes	\$1,000.00	\$982.24
1866	23-Jul-12	23	10	\$23.13	Yes	\$1,000.00	\$976.87
1867	23-Jul-12	23	11	\$21.41	Yes	\$1,000.00	\$978.59
1868	23-Jul-12	23	12	\$11.35	Yes	\$1,000.00	\$988.65
1869	23-Jul-12	24	1	\$26.24	Yes	\$32.83	\$6.59
1870	23-Jul-12	24	2	\$23.35	Yes	\$32.83	\$9.48
1871	23-Jul-12	24	3	\$25.89	Yes	\$32.83	\$6.94
1872	23-Jul-12	24	4	\$23.36	Yes	\$32.83	\$9.47
1873	23-Jul-12	24	5	\$21.54	Yes	\$32.83	\$11.29
1874	23-Jul-12	24	6	\$21.56	Yes	\$32.83	\$11.27
1875	23-Jul-12	24	7	\$20.69	Yes	\$32.83	\$12.14
1876	23-Jul-12	24	8	\$15.56	Yes	\$32.83	\$17.27
1877	23-Jul-12	24	9	\$13.47	Yes	\$32.83	\$19.36
1878	23-Jul-12	24	10	\$12.93	Yes	\$32.83	\$19.90
1879	23-Jul-12	24	11	\$7.74	Yes	\$32.83	\$25.09
1880	23-Jul-12	24	12	-\$10.79	Yes	\$32.83	\$43.62
1881	25-Jul-12	9	9	\$24.06	Yes	\$1,000.00	\$975.94
1882	25-Jul-12	9	10	\$23.97	Yes	\$1,000.00	\$976.03
1883	25-Jul-12	9	11	\$23.97	Yes	\$1,000.00	\$976.03

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1884	25-Jul-12	9	12	\$22.98	Yes	\$1,000.00	\$977.02
1885	25-Jul-12	10	1	\$10.99	Yes	\$1,000.00	\$989.01
1886	25-Jul-12	10	2	\$16.42	Yes	\$1,000.00	\$983.58
1887	25-Jul-12	10	3	\$23.88	Yes	\$1,000.00	\$976.12
1888	25-Jul-12	10	4	\$23.35	Yes	\$1,000.00	\$976.65
1889	25-Jul-12	10	5	\$23.84	Yes	\$1,000.00	\$976.16
1890	25-Jul-12	10	6	\$23.82	Yes	\$1,000.00	\$976.18
1891	25-Jul-12	10	7	\$23.79	Yes	\$1,000.00	\$976.21
1892	25-Jul-12	10	8	\$23.84	Yes	\$1,000.00	\$976.16
1893	25-Jul-12	10	9	\$23.84	Yes	\$1,000.00	\$976.16
1894	25-Jul-12	10	10	\$23.46	Yes	\$1,000.00	\$976.54
1895	25-Jul-12	10	11	\$23.93	Yes	\$1,000.00	\$976.07
1896	25-Jul-12	10	12	\$28.26	Yes	\$1,000.00	\$971.74
1897	25-Jul-12	11	1	\$16.43	Yes	\$1,000.00	\$983.57
1898	25-Jul-12	11	2	\$16.50	Yes	\$1,000.00	\$983.50
1899	25-Jul-12	11	3	\$15.36	Yes	\$1,000.00	\$984.64
1900	25-Jul-12	11	4	\$20.85	Yes	\$1,000.00	\$979.15
1901	25-Jul-12	11	5	\$20.37	Yes	\$1,000.00	\$979.63
1902	25-Jul-12	11	6	\$20.85	Yes	\$1,000.00	\$979.15
1903	25-Jul-12	11	7	\$20.88	Yes	\$1,000.00	\$979.12
1904	25-Jul-12	11	8	\$20.94	Yes	\$1,000.00	\$979.06
1905	25-Jul-12	11	9	\$23.98	Yes	\$1,000.00	\$976.02
1906	25-Jul-12	11	10	\$23.50	Yes	\$1,000.00	\$976.50
1907	25-Jul-12	11	11	\$23.98	Yes	\$1,000.00	\$976.02
1908	25-Jul-12	11	12	\$26.86	Yes	\$1,000.00	\$973.14
1909	25-Jul-12	12	1	\$24.45	Yes	\$1,000.00	\$975.55
1910	25-Jul-12	12	2	\$24.11	Yes	\$1,000.00	\$975.89
1911	25-Jul-12	12	3	\$24.10	Yes	\$1,000.00	\$975.90
1912	25-Jul-12	12	4	\$23.70	Yes	\$1,000.00	\$976.30
1913	25-Jul-12	12	5	\$24.17	Yes	\$1,000.00	\$975.83
1914	25-Jul-12	12	6	\$24.17	Yes	\$1,000.00	\$975.83
1915	25-Jul-12	12	7	\$23.64	Yes	\$1,000.00	\$976.36
1916	25-Jul-12	12	8	\$24.29	Yes	\$1,000.00	\$975.71
1917	25-Jul-12	12	9	\$24.29	Yes	\$1,000.00	\$975.71
1918	25-Jul-12	12	10	\$24.36	Yes	\$1,000.00	\$975.64
1919	25-Jul-12	12	11	\$24.46	Yes	\$1,000.00	\$975.54
1920	25-Jul-12	12	12	\$28.31	Yes	\$1,000.00	\$971.69
1921	25-Jul-12	13	1	\$24.49	Yes	\$1,000.00	\$975.51
1922	25-Jul-12	13	2	\$24.76	Yes	\$1,000.00	\$975.24
1923	25-Jul-12	13	3	\$27.33	Yes	\$1,000.00	\$972.67
1924	25-Jul-12	13	4	\$26.89	Yes	\$1,000.00	\$973.11
1925	25-Jul-12	13	5	\$27.17	Yes	\$1,000.00	\$972.83
1926	25-Jul-12	13	6	\$27.77	Yes	\$1,000.00	\$972.23
1927	25-Jul-12	13	7	\$27.80	Yes	\$1,000.00	\$972.20
1928	25-Jul-12	13	8	\$27.12	Yes	\$1,000.00	\$972.88

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1929	25-Jul-12	13	9	\$27.81	Yes	\$1,000.00	\$972.19
1930	25-Jul-12	13	10	\$28.96	Yes	\$1,000.00	\$971.04
1931	25-Jul-12	13	11	\$28.97	Yes	\$1,000.00	\$971.03
1932	25-Jul-12	13	12	\$29.01	Yes	\$1,000.00	\$970.99
1933	25-Jul-12	14	1	\$24.41	Yes	\$1,000.00	\$975.59
1934	25-Jul-12	14	2	\$22.77	Yes	\$1,000.00	\$977.23
1935	25-Jul-12	14	3	\$24.49	Yes	\$1,000.00	\$975.51
1936	25-Jul-12	14	4	\$24.61	Yes	\$1,000.00	\$975.39
1937	25-Jul-12	14	5	\$24.61	Yes	\$1,000.00	\$975.39
1938	25-Jul-12	14	6	\$24.61	Yes	\$1,000.00	\$975.39
1939	25-Jul-12	14	7	\$24.87	Yes	\$1,000.00	\$975.13
1940	25-Jul-12	14	8	\$24.89	Yes	\$1,000.00	\$975.11
1941	25-Jul-12	14	9	\$25.19	Yes	\$1,000.00	\$974.81
1942	25-Jul-12	14	10	\$25.72	Yes	\$1,000.00	\$974.28
1943	25-Jul-12	14	11	\$25.72	Yes	\$1,000.00	\$974.28
1944	25-Jul-12	14	12	\$25.94	Yes	\$1,000.00	\$974.06
1945	25-Jul-12	15	1	\$24.60	Yes	\$1,000.00	\$975.40
1946	25-Jul-12	15	2	\$24.60	Yes	\$1,000.00	\$975.40
1947	25-Jul-12	15	3	\$24.60	Yes	\$1,000.00	\$975.40
1948	25-Jul-12	15	4	\$24.62	Yes	\$1,000.00	\$975.38
1949	25-Jul-12	15	5	\$24.67	Yes	\$1,000.00	\$975.33
1950	25-Jul-12	15	6	\$24.67	Yes	\$1,000.00	\$975.33
1951	25-Jul-12	15	7	\$24.72	Yes	\$1,000.00	\$975.28
1952	25-Jul-12	15	8	\$26.12	Yes	\$1,000.00	\$973.88
1953	25-Jul-12	15	9	\$26.13	Yes	\$1,000.00	\$973.87
1954	25-Jul-12	15	10	\$25.88	Yes	\$1,000.00	\$974.12
1955	25-Jul-12	15	11	\$27.89	Yes	\$1,000.00	\$972.11
1956	25-Jul-12	15	12	\$28.89	Yes	\$1,000.00	\$971.11
1957	25-Jul-12	16	1	\$26.85	Yes	\$1,000.00	\$973.15
1958	25-Jul-12	16	2	\$27.40	Yes	\$1,000.00	\$972.60
1959	25-Jul-12	16	3	\$27.82	Yes	\$1,000.00	\$972.18
1960	25-Jul-12	16	4	\$28.85	Yes	\$1,000.00	\$971.15
1961	25-Jul-12	16	5	\$30.48	Yes	\$1,000.00	\$969.52
1962	25-Jul-12	16	6	\$31.25	Yes	\$1,000.00	\$968.75
1963	25-Jul-12	16	7	\$31.20	Yes	\$1,000.00	\$968.80
1964	25-Jul-12	16	8	\$31.12	Yes	\$1,000.00	\$968.88
1965	25-Jul-12	16	9	\$31.12	Yes	\$1,000.00	\$968.88
1966	25-Jul-12	16	10	\$32.46	Yes	\$1,000.00	\$967.54
1967	25-Jul-12	16	11	\$34.58	Yes	\$1,000.00	\$965.42
1968	25-Jul-12	16	12	\$36.57	Yes	\$1,000.00	\$963.43
1969	25-Jul-12	17	1	\$28.86	Yes	\$1,000.00	\$971.14
1970	25-Jul-12	17	2	\$28.86	Yes	\$1,000.00	\$971.14
1971	25-Jul-12	17	3	\$28.86	Yes	\$1,000.00	\$971.14
1972	25-Jul-12	17	4	\$30.09	Yes	\$1,000.00	\$969.91
1973	25-Jul-12	17	5	\$30.09	Yes	\$1,000.00	\$969.91

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1974	25-Jul-12	17	6	\$30.09	Yes	\$1,000.00	\$969.91
1975	25-Jul-12	17	7	\$30.05	Yes	\$1,000.00	\$969.95
1976	25-Jul-12	17	8	\$29.95	Yes	\$1,000.00	\$970.05
1977	25-Jul-12	17	9	\$28.87	Yes	\$1,000.00	\$971.13
1978	25-Jul-12	17	10	\$28.85	Yes	\$1,000.00	\$971.15
1979	25-Jul-12	17	11	\$28.16	Yes	\$1,000.00	\$971.84
1980	25-Jul-12	17	12	\$26.84	Yes	\$1,000.00	\$973.16
1981	25-Jul-12	18	1	\$28.87	Yes	\$1,000.00	\$971.13
1982	25-Jul-12	18	2	\$29.95	Yes	\$1,000.00	\$970.05
1983	25-Jul-12	18	3	\$31.74	Yes	\$1,000.00	\$968.26
1984	25-Jul-12	18	4	\$36.31	Yes	\$1,000.00	\$963.69
1985	25-Jul-12	18	5	\$35.91	Yes	\$1,000.00	\$964.09
1986	25-Jul-12	18	6	\$33.99	Yes	\$1,000.00	\$966.01
1987	25-Jul-12	18	7	\$28.85	Yes	\$1,000.00	\$971.15
1988	25-Jul-12	18	8	\$29.39	Yes	\$1,000.00	\$970.61
1989	25-Jul-12	18	9	\$29.94	Yes	\$1,000.00	\$970.06
1990	25-Jul-12	18	10	\$28.82	Yes	\$1,000.00	\$971.18
1991	25-Jul-12	18	11	\$28.38	Yes	\$1,000.00	\$971.62
1992	25-Jul-12	18	12	\$27.10	Yes	\$1,000.00	\$972.90
1993	25-Jul-12	19	1	\$27.13	Yes	\$1,000.00	\$972.87
1994	25-Jul-12	19	2	\$25.02	Yes	\$1,000.00	\$974.98
1995	25-Jul-12	19	3	\$25.02	Yes	\$1,000.00	\$974.98
1996	25-Jul-12	19	4	\$24.67	Yes	\$1,000.00	\$975.33
1997	25-Jul-12	19	5	\$24.67	Yes	\$1,000.00	\$975.33
1998	25-Jul-12	19	6	\$24.67	Yes	\$1,000.00	\$975.33
1999	25-Jul-12	19	7	\$24.44	Yes	\$1,000.00	\$975.56
2000	25-Jul-12	19	8	\$24.31	Yes	\$1,000.00	\$975.69
2001	25-Jul-12	19	9	\$24.30	Yes	\$1,000.00	\$975.70
2002	25-Jul-12	19	10	\$24.35	Yes	\$1,000.00	\$975.65
2003	25-Jul-12	19	11	\$23.92	Yes	\$1,000.00	\$976.08
2004	25-Jul-12	19	12	\$22.65	Yes	\$1,000.00	\$977.35
2005	25-Jul-12	20	1	\$24.34	Yes	\$1,000.00	\$975.66
2006	25-Jul-12	20	2	\$22.67	Yes	\$1,000.00	\$977.33
2007	25-Jul-12	20	3	\$22.67	Yes	\$1,000.00	\$977.33
2008	25-Jul-12	20	4	\$20.67	Yes	\$1,000.00	\$979.33
2009	25-Jul-12	20	5	\$20.89	Yes	\$1,000.00	\$979.11
2010	25-Jul-12	20	6	\$20.67	Yes	\$1,000.00	\$979.33
2011	25-Jul-12	20	7	\$20.25	Yes	\$1,000.00	\$979.75
2012	25-Jul-12	20	8	\$20.84	Yes	\$1,000.00	\$979.16
2013	25-Jul-12	20	9	\$20.11	Yes	\$1,000.00	\$979.89
2014	25-Jul-12	20	10	\$21.04	Yes	\$1,000.00	\$978.96
2015	25-Jul-12	20	11	\$20.26	Yes	\$1,000.00	\$979.74
2016	25-Jul-12	20	12	\$19.36	Yes	\$1,000.00	\$980.64
2017	25-Jul-12	21	1	\$24.54	Yes	\$1,000.00	\$975.46
2018	25-Jul-12	21	2	\$24.42	Yes	\$1,000.00	\$975.58

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2019	25-Jul-12	21	3	\$24.56	Yes	\$1,000.00	\$975.44
2020	25-Jul-12	21	4	\$24.74	Yes	\$1,000.00	\$975.26
2021	25-Jul-12	21	5	\$26.92	Yes	\$1,000.00	\$973.08
2022	25-Jul-12	21	6	\$24.74	Yes	\$1,000.00	\$975.26
2023	25-Jul-12	21	7	\$24.77	Yes	\$1,000.00	\$975.23
2024	25-Jul-12	21	8	\$22.88	Yes	\$1,000.00	\$977.12
2025	25-Jul-12	21	9	\$24.68	Yes	\$1,000.00	\$975.32
2026	25-Jul-12	21	10	\$24.55	Yes	\$1,000.00	\$975.45
2027	25-Jul-12	21	11	\$24.38	Yes	\$1,000.00	\$975.62
2028	25-Jul-12	21	12	\$24.38	Yes	\$1,000.00	\$975.62
2029	25-Jul-12	22	1	\$24.39	Yes	\$32.77	\$8.38
2030	25-Jul-12	22	2	\$24.30	Yes	\$32.77	\$8.47
2031	25-Jul-12	22	3	\$23.34	Yes	\$32.77	\$9.43
2032	25-Jul-12	22	4	\$21.08	Yes	\$32.77	\$11.69
2033	25-Jul-12	22	5	\$21.08	Yes	\$32.77	\$11.69
2034	25-Jul-12	22	6	\$19.78	Yes	\$32.77	\$12.99
2035	25-Jul-12	22	7	\$21.95	Yes	\$32.77	\$10.82
2036	25-Jul-12	22	8	\$19.77	Yes	\$32.77	\$13.00
2037	25-Jul-12	22	9	\$16.49	Yes	\$32.77	\$16.28
2038	25-Jul-12	22	10	\$15.45	Yes	\$32.77	\$17.32
2039	25-Jul-12	22	11	\$15.45	Yes	\$32.77	\$17.32
2040	25-Jul-12	22	12	\$15.08	Yes	\$32.77	\$17.69
2041	30-Jul-12	13	6	\$33.51	Yes	\$1,000.00	\$966.49
2042	30-Jul-12	13	7	\$33.60	Yes	\$1,000.00	\$966.40
2043	30-Jul-12	13	8	\$34.13	Yes	\$1,000.00	\$965.87
2044	30-Jul-12	13	9	\$34.73	Yes	\$1,000.00	\$965.27
2045	30-Jul-12	13	10	\$35.10	Yes	\$1,000.00	\$964.90
2046	30-Jul-12	13	11	\$35.02	Yes	\$1,000.00	\$964.98
2047	30-Jul-12	13	12	\$35.49	Yes	\$1,000.00	\$964.51
2048	30-Jul-12	14	1	\$30.87	Yes	\$1,000.00	\$969.13
2049	30-Jul-12	14	2	\$30.57	Yes	\$1,000.00	\$969.43
2050	30-Jul-12	14	3	\$30.57	Yes	\$1,000.00	\$969.43
2051	30-Jul-12	14	4	\$33.05	Yes	\$1,000.00	\$966.95
2052	30-Jul-12	14	5	\$32.65	Yes	\$1,000.00	\$967.35
2053	30-Jul-12	14	6	\$33.45	Yes	\$1,000.00	\$966.55
2054	30-Jul-12	14	7	\$30.62	Yes	\$1,000.00	\$969.38
2055	30-Jul-12	14	8	\$31.84	Yes	\$1,000.00	\$968.16
2056	30-Jul-12	14	9	\$32.54	Yes	\$1,000.00	\$967.46
2057	30-Jul-12	14	10	\$32.56	Yes	\$1,000.00	\$967.44
2058	30-Jul-12	14	11	\$33.28	Yes	\$1,000.00	\$966.72
2059	30-Jul-12	14	12	\$34.11	Yes	\$1,000.00	\$965.89
2060	30-Jul-12	15	1	\$31.89	Yes	\$1,000.00	\$968.11
2061	30-Jul-12	15	2	\$31.90	Yes	\$1,000.00	\$968.10
2062	30-Jul-12	15	3	\$33.25	Yes	\$1,000.00	\$966.75
2063	30-Jul-12	15	4	\$33.25	Yes	\$1,000.00	\$966.75

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2064	30-Jul-12	15	5	\$33.43	Yes	\$1,000.00	\$966.57
2065	30-Jul-12	15	6	\$33.43	Yes	\$1,000.00	\$966.57
2066	30-Jul-12	15	7	\$32.45	Yes	\$1,000.00	\$967.55
2067	30-Jul-12	15	8	\$33.13	Yes	\$1,000.00	\$966.87
2068	30-Jul-12	15	9	\$33.41	Yes	\$1,000.00	\$966.59
2069	30-Jul-12	15	10	\$34.67	Yes	\$1,000.00	\$965.33
2070	30-Jul-12	15	11	\$34.03	Yes	\$1,000.00	\$965.97
2071	30-Jul-12	15	12	\$33.64	Yes	\$1,000.00	\$966.36
2072	30-Jul-12	16	1	\$29.98	Yes	\$1,000.00	\$970.02
2073	30-Jul-12	16	2	\$30.82	Yes	\$1,000.00	\$969.18
2074	30-Jul-12	16	3	\$31.35	Yes	\$1,000.00	\$968.65
2075	30-Jul-12	16	4	\$33.99	Yes	\$1,000.00	\$966.01
2076	30-Jul-12	16	5	\$34.39	Yes	\$1,000.00	\$965.61
2077	30-Jul-12	16	6	\$36.70	Yes	\$1,000.00	\$963.30
2078	30-Jul-12	16	7	\$35.82	Yes	\$1,000.00	\$964.18
2079	30-Jul-12	16	8	\$33.19	Yes	\$1,000.00	\$966.81
2080	30-Jul-12	16	9	\$33.19	Yes	\$1,000.00	\$966.81
2081	30-Jul-12	16	10	\$34.78	Yes	\$1,000.00	\$965.22
2082	30-Jul-12	16	11	\$33.53	Yes	\$1,000.00	\$966.47
2083	30-Jul-12	16	12	\$33.49	Yes	\$1,000.00	\$966.51
2084	30-Jul-12	17	1	\$33.36	Yes	\$1,000.00	\$966.64
2085	30-Jul-12	17	2	\$33.75	Yes	\$1,000.00	\$966.25
2086	30-Jul-12	17	3	\$34.15	Yes	\$1,000.00	\$965.85
2087	30-Jul-12	17	4	\$34.79	Yes	\$1,000.00	\$965.21
2088	30-Jul-12	17	5	\$34.79	Yes	\$1,000.00	\$965.21
2089	30-Jul-12	17	6	\$33.45	Yes	\$1,000.00	\$966.55
2090	30-Jul-12	17	7	\$32.59	Yes	\$1,000.00	\$967.41
2091	30-Jul-12	17	8	\$32.78	Yes	\$1,000.00	\$967.22
2092	30-Jul-12	17	9	\$35.69	Yes	\$1,000.00	\$964.31
2093	30-Jul-12	17	10	\$130.16	Yes	\$1,000.00	\$869.84
2094	30-Jul-12	17	11	\$51.22	Yes	\$1,000.00	\$948.78
2095	30-Jul-12	17	12	\$42.47	Yes	\$1,000.00	\$957.53
2096	30-Jul-12	18	1	\$34.53	Yes	\$1,000.00	\$965.47
2097	30-Jul-12	18	2	\$34.55	Yes	\$1,000.00	\$965.45
2098	30-Jul-12	18	3	\$35.37	Yes	\$1,000.00	\$964.63
2099	30-Jul-12	18	4	\$35.37	Yes	\$1,000.00	\$964.63
2100	30-Jul-12	18	5	\$35.63	Yes	\$1,000.00	\$964.37
2101	30-Jul-12	18	6	\$35.37	Yes	\$1,000.00	\$964.63
2102	30-Jul-12	18	7	\$35.37	Yes	\$1,000.00	\$964.63
2103	30-Jul-12	18	8	\$34.16	Yes	\$1,000.00	\$965.84
2104	30-Jul-12	18	9	\$34.40	Yes	\$1,000.00	\$965.60
2105	30-Jul-12	18	10	\$33.03	Yes	\$1,000.00	\$966.97
2106	30-Jul-12	18	11	\$31.38	Yes	\$1,000.00	\$968.62
2107	30-Jul-12	18	12	\$31.01	Yes	\$1,000.00	\$968.99
2108	30-Jul-12	19	1	\$30.25	Yes	\$1,000.00	\$969.75

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2109	30-Jul-12	19	2	\$30.25	Yes	\$1,000.00	\$969.75
2110	30-Jul-12	19	3	\$30.25	Yes	\$1,000.00	\$969.75
2111	30-Jul-12	19	4	\$30.23	Yes	\$1,000.00	\$969.77
2112	30-Jul-12	19	5	\$30.23	Yes	\$1,000.00	\$969.77
2113	30-Jul-12	19	6	\$30.23	Yes	\$1,000.00	\$969.77
2114	30-Jul-12	19	7	\$30.24	Yes	\$1,000.00	\$969.76
2115	30-Jul-12	19	8	\$33.19	Yes	\$1,000.00	\$966.81
2116	30-Jul-12	19	9	\$33.19	Yes	\$1,000.00	\$966.81
2117	30-Jul-12	19	10	\$30.69	Yes	\$1,000.00	\$969.31
2118	30-Jul-12	19	11	\$30.69	Yes	\$1,000.00	\$969.31
2119	30-Jul-12	19	12	\$30.15	Yes	\$1,000.00	\$969.85
2120	31-Jul-12	10	3	\$31.04	Yes	\$1,000.00	\$968.96
2121	31-Jul-12	10	4	\$32.16	Yes	\$1,000.00	\$967.84
2122	31-Jul-12	10	5	\$34.27	Yes	\$1,000.00	\$965.73
2123	31-Jul-12	10	6	\$32.63	Yes	\$1,000.00	\$967.37
2124	31-Jul-12	10	7	\$34.57	Yes	\$1,000.00	\$965.43
2125	31-Jul-12	10	8	\$32.44	Yes	\$1,000.00	\$967.56
2126	31-Jul-12	10	9	\$34.26	Yes	\$1,000.00	\$965.74
2127	31-Jul-12	10	10	\$34.20	Yes	\$1,000.00	\$965.80
2128	31-Jul-12	10	11	\$36.14	Yes	\$1,000.00	\$963.86
2129	31-Jul-12	10	12	\$34.48	Yes	\$1,000.00	\$965.52
2130	31-Jul-12	11	1	\$32.39	Yes	\$1,000.00	\$967.61
2131	31-Jul-12	11	2	\$32.02	Yes	\$1,000.00	\$967.98
2132	31-Jul-12	11	3	\$32.02	Yes	\$1,000.00	\$967.98
2133	31-Jul-12	11	4	\$33.20	Yes	\$1,000.00	\$966.80
2134	31-Jul-12	11	5	\$32.22	Yes	\$1,000.00	\$967.78
2135	31-Jul-12	11	6	\$33.20	Yes	\$1,000.00	\$966.80
2136	31-Jul-12	11	7	\$28.68	Yes	\$1,000.00	\$971.32
2137	31-Jul-12	11	8	\$34.20	Yes	\$1,000.00	\$965.80
2138	31-Jul-12	11	9	\$34.12	Yes	\$1,000.00	\$965.88
2139	31-Jul-12	11	10	\$34.33	Yes	\$1,000.00	\$965.67
2140	31-Jul-12	11	11	\$34.85	Yes	\$1,000.00	\$965.15
2141	31-Jul-12	11	12	\$39.88	Yes	\$1,000.00	\$960.12
2142	31-Jul-12	12	1	\$27.37	Yes	\$1,000.00	\$972.63
2143	31-Jul-12	12	2	\$31.52	Yes	\$1,000.00	\$968.48
2144	31-Jul-12	12	3	\$33.07	Yes	\$1,000.00	\$966.93
2145	31-Jul-12	12	4	\$34.33	Yes	\$1,000.00	\$965.67
2146	31-Jul-12	12	5	\$34.00	Yes	\$1,000.00	\$966.00
2147	31-Jul-12	12	6	\$34.33	Yes	\$1,000.00	\$965.67
2148	31-Jul-12	12	7	\$34.96	Yes	\$1,000.00	\$965.04
2149	31-Jul-12	12	8	\$34.87	Yes	\$1,000.00	\$965.13
2150	31-Jul-12	12	9	\$34.67	Yes	\$1,000.00	\$965.33
2151	31-Jul-12	12	10	\$34.83	Yes	\$1,000.00	\$965.17
2152	31-Jul-12	12	11	\$34.73	Yes	\$1,000.00	\$965.27
2153	31-Jul-12	12	12	\$34.66	Yes	\$1,000.00	\$965.34

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Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2154	31-Jul-12	13	1	\$28.51	Yes	\$1,000.00	\$971.49
2155	31-Jul-12	13	2	\$28.51	Yes	\$1,000.00	\$971.49
2156	31-Jul-12	13	3	\$28.51	Yes	\$1,000.00	\$971.49
2157	31-Jul-12	13	4	\$32.16	Yes	\$1,000.00	\$967.84
2158	31-Jul-12	13	5	\$33.91	Yes	\$1,000.00	\$966.09
2159	31-Jul-12	13	6	\$32.64	Yes	\$1,000.00	\$967.36
2160	31-Jul-12	13	7	\$34.15	Yes	\$1,000.00	\$965.85
2161	31-Jul-12	13	8	\$953.64	Yes	\$1,000.00	\$46.36
2162	31-Jul-12	13	9	\$953.64	Yes	\$1,000.00	\$46.36
2163	31-Jul-12	13	10	\$953.64	Yes	\$1,000.00	\$46.36
2164	31-Jul-12	13	11	-\$35.30	Yes	\$1,000.00	\$1,035.30
2165	31-Jul-12	13	12	\$36.08	Yes	\$1,000.00	\$963.92
2166	31-Jul-12	14	1	\$22.68	Yes	\$1,000.00	\$977.32
2167	31-Jul-12	14	2	\$30.28	Yes	\$1,000.00	\$969.72
2168	31-Jul-12	14	3	\$32.90	Yes	\$1,000.00	\$967.10
2169	31-Jul-12	14	4	\$35.57	Yes	\$1,000.00	\$964.43
2170	31-Jul-12	14	5	\$35.71	Yes	\$1,000.00	\$964.29
2171	31-Jul-12	14	6	\$35.43	Yes	\$1,000.00	\$964.57
2172	31-Jul-12	14	7	\$35.27	Yes	\$1,000.00	\$964.73
2173	31-Jul-12	14	8	\$35.21	Yes	\$1,000.00	\$964.79
2174	31-Jul-12	14	9	\$34.95	Yes	\$1,000.00	\$965.05
2175	31-Jul-12	14	10	\$35.72	Yes	\$1,000.00	\$964.28
2176	31-Jul-12	14	11	\$35.53	Yes	\$1,000.00	\$964.47
2177	31-Jul-12	14	12	\$35.43	Yes	\$1,000.00	\$964.57
2178	31-Jul-12	15	1	\$34.03	Yes	\$1,000.00	\$965.97
2179	31-Jul-12	15	2	\$34.43	Yes	\$1,000.00	\$965.57
2180	31-Jul-12	15	3	\$35.09	Yes	\$1,000.00	\$964.91
2181	31-Jul-12	15	4	\$34.94	Yes	\$1,000.00	\$965.07
2182	31-Jul-12	15	5	\$36.89	Yes	\$1,000.00	\$963.11
2183	31-Jul-12	15	6	\$38.96	Yes	\$1,000.00	\$961.04
2184	31-Jul-12	15	7	\$41.34	Yes	\$1,000.00	\$958.66
2185	31-Jul-12	15	8	\$37.89	Yes	\$1,000.00	\$962.11
2186	31-Jul-12	15	9	\$38.56	Yes	\$1,000.00	\$961.44
2187	31-Jul-12	15	10	\$37.32	Yes	\$1,000.00	\$962.68
2188	31-Jul-12	15	11	\$39.44	Yes	\$1,000.00	\$960.56
2189	31-Jul-12	15	12	\$39.44	Yes	\$1,000.00	\$960.56
2190	31-Jul-12	16	1	\$35.03	Yes	\$1,000.00	\$964.97
2191	31-Jul-12	16	2	\$35.22	Yes	\$1,000.00	\$964.78
2192	31-Jul-12	16	3	\$35.92	Yes	\$1,000.00	\$964.08
2193	31-Jul-12	16	4	\$34.55	Yes	\$1,000.00	\$965.45
2194	31-Jul-12	16	5	\$34.83	Yes	\$1,000.00	\$965.17
2195	31-Jul-12	16	6	\$39.32	Yes	\$1,000.00	\$960.68
2196	31-Jul-12	16	7	\$40.00	Yes	\$1,000.00	\$960.00
2197	31-Jul-12	16	8	\$35.35	Yes	\$1,000.00	\$964.65
2198	31-Jul-12	16	9	\$35.43	Yes	\$1,000.00	\$964.57

Department of Market Analysis and Development – California ISO

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
2199	31-Jul-12	16	10	\$35.04	Yes	\$1,000.00	\$964.96
2200	31-Jul-12	16	11	\$29.40	Yes	\$1,000.00	\$970.60
2201	31-Jul-12	16	12	\$27.37	Yes	\$1,000.00	\$972.63
2202	31-Jul-12	17	1	\$29.25	Yes	\$1,000.00	\$970.75
2203	31-Jul-12	17	2	\$30.72	Yes	\$1,000.00	\$969.28
2204	31-Jul-12	17	3	\$32.82	Yes	\$1,000.00	\$967.18
2205	31-Jul-12	17	4	\$35.34	Yes	\$1,000.00	\$964.66
2206	31-Jul-12	17	5	\$35.02	Yes	\$1,000.00	\$964.98
2207	31-Jul-12	17	6	\$33.93	Yes	\$1,000.00	\$966.07
2208	31-Jul-12	17	7	\$32.95	Yes	\$1,000.00	\$967.05
2209	31-Jul-12	17	8	\$32.02	Yes	\$1,000.00	\$967.98
2210	31-Jul-12	17	9	\$34.33	Yes	\$1,000.00	\$965.67
2211	31-Jul-12	17	10	\$34.49	Yes	\$1,000.00	\$965.51
2212	31-Jul-12	17	11	\$33.69	Yes	\$1,000.00	\$966.31
2213	31-Jul-12	17	12	\$32.15	Yes	\$1,000.00	\$967.85
2214	31-Jul-12	18	1	\$33.94	Yes	\$1,000.00	\$966.06
2215	31-Jul-12	18	2	\$33.26	Yes	\$1,000.00	\$966.74
2216	31-Jul-12	18	3	\$40.12	Yes	\$1,000.00	\$959.88
2217	31-Jul-12	18	4	\$35.67	Yes	\$1,000.00	\$964.33
2218	31-Jul-12	18	5	\$33.29	Yes	\$1,000.00	\$966.71
2219	31-Jul-12	18	6	\$32.25	Yes	\$1,000.00	\$967.75
2220	31-Jul-12	18	7	\$32.24	Yes	\$1,000.00	\$967.76
2221	31-Jul-12	18	8	\$31.66	Yes	\$1,000.00	\$968.34
2222	31-Jul-12	18	9	\$31.79	Yes	\$1,000.00	\$968.21
2223	31-Jul-12	18	10	\$31.86	Yes	\$1,000.00	\$968.14
2224	31-Jul-12	18	11	\$31.83	Yes	\$1,000.00	\$968.17
2225	31-Jul-12	18	12	\$32.04	Yes	\$1,000.00	\$967.96
2226	31-Jul-12	19	1	\$32.01	Yes	\$1,000.00	\$967.99
2227	31-Jul-12	19	2	\$32.76	Yes	\$1,000.00	\$967.24
2228	31-Jul-12	19	3	\$35.39	Yes	\$1,000.00	\$964.61
2229	31-Jul-12	19	4	\$35.72	Yes	\$1,000.00	\$964.28
2230	31-Jul-12	19	5	\$34.28	Yes	\$1,000.00	\$965.72
2231	31-Jul-12	19	6	\$35.11	Yes	\$1,000.00	\$964.89
2232	31-Jul-12	19	7	\$33.86	Yes	\$1,000.00	\$966.14
2233	31-Jul-12	19	8	\$31.36	Yes	\$1,000.00	\$968.64
2234	31-Jul-12	19	9	\$27.05	Yes	\$1,000.00	\$972.95
2235	31-Jul-12	19	10	\$29.16	Yes	\$1,000.00	\$970.84
2236	31-Jul-12	19	11	\$27.07	Yes	\$1,000.00	\$972.93
2237	31-Jul-12	19	12	\$27.07	Yes	\$1,000.00	\$972.93

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In July 2012, 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 July. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$ 2,060,243. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$ 29,539,352. The cost saving from the exceptional dispatch bid mitigation was \$ 27,479,109.

Table 10: Bid Mitigation Analysis for July

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
NONTMOD	8	\$29,195,726.60	\$1,822,634.71	\$27,373,091.90
TMODEL5	3	\$20,736.07	\$10,439.16	\$10,296.91
TMODEL6	1	\$322,889.35	\$227,168.74	\$95,720.61
		\$29,539,352.02	\$2,060,242.60	\$27,479,109.42

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 October 2012.

Is/ Anna Pascuzzo

Anna Pascuzzo