July 30, 2010

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

> **Re: California Independent System Operator Corporation**
> **Docket Nos. ER08-1178-___, and EL08-88-___**
> **April 2010 Exceptional Dispatch Report (Chart 2 data)**

Dear Secretary Bose:

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

The attached report provides Chart 2 data for the month of April 2010. The attached Chart 2 report also includes the price impact analysis for the month April 2010 required by Paragraph 44 of the September 2 order as well as the degree of mitigation analysis required by ISO tariff section 34.9.4 for the month of April 2010.

Respectfully submitted,

/s/ Sidney M. Davies__
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Exceptional Dispatch Report

Table 2: April 2010

ISO Market Services   July 30, 2010

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Introduction

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

In addition, this report contains a price impact analysis as prescribed by FERC in its September 2 order. The price impact analysis for the month of April is presented in Appendix B. This report also includes the degree of mitigation analysis for April 2010 required by section 34.9.4 of the ISO tariff. As it has previously explained, the ISO indicated that it would start including the degree of mitigation analysis beginning with the month of August 2009 when the more limited Exceptional Dispatch bid mitigation took effect. This analysis will compare those Exceptional Dispatches subject to bid mitigation (i.e. Exceptional Dispatches to address noncompetitive constraints and Delta Dispatch), and determine the cost difference between the Exceptional Dispatch bid mitigation settlement rules and what the settlement amount would have been had the Exceptional Dispatches not been subject to bid mitigation. The Exceptional Dispatch bid mitigation analysis for April is presented in Appendix C.

The Nature of Exceptional Dispatch

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

are logged by the operators into the scheduling and logging system (SLIC), including an associated reason for each exceptional dispatch instruction.

In April 2010, the ISO issued exceptional dispatches for the following local area generation requirement: (1) G-206, San Diego area generation requirements; and (2) G-217, South of Lugo generation requirements; Exceptional dispatch instructions were also issued for the following transmission management requirements: (1) T-103, Southern California import transmission (SCIT) nomogram; (2) T-122, Path 15 nomogram; (3) T-132, transmission facilities in San Diego and Imperial Valley area; (4) T-138, transmission facilities in Humboldt area; and (5) other transmission outages in PG&E, SCE and SDG&E area.

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

The following additional reasons for exceptional dispatch instructions in April 2010 were not related to specific generation or transmission operating procedures: (1) Software Limitation, when an exceptional dispatch instruction was used to bridge schedules across days for resources with a minimum down time of 24 hours, as the ISO software does not handle multi day commitment. (For instance, a resource has a day-ahead schedule from 0600 till 2300, and then is shut down in 2400. If this resource had a minimum down time of 24 hours and it is required the following day, then the ISO issues an exceptional dispatch to commit this resource in 2400 so that it can be dispatched economically in the following day. Software limitation reason was also used for exceptional dispatches to manually issue shut down instructions to a resource because of a temporary Automatic Dispatch System ("ADS") failure, or similar issues.); (2) Market Disruption, when the exceptional dispatch instructions were issued due to HASP failures; and (3) Ramp Rate, when exceptional dispatch instructions were issued to dispatch a resource above its physical minimum to a level where the resource has significantly higher ramp rate capability. For example, a resource could have a ramp rate of 2 MW/min at its physical minimum of 100 MW, but a significantly higher ramp rate of 10 MW/min at 250 MW. The operators could issue an exceptional dispatch for this resource to be dispatched to 250 MW, so that the resource could respond to the anticipated steep load ramp or to a potential contingency. There were a few other reasons used to explain exceptional dispatch instructions in April, which are self explanatory.

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[1] A list of all of the ISO's Operating Procedures and all the publicly available Operating Procedures are available at the following link:
http://www.caiso.com/thegrid/operations/opsdoc/index.html

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

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

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[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 please refer to sections 11.8 of the ISO tariff for further details regarding the Bid Cost Recovery process.

- The ED Volume MWh (MWh INC/DEC) shows the incremental or the decremental portion of the real-time exceptional dispatch MWh for the classification. The CC6470-INC shows that portion of incremental exceptional dispatch instruction which is settled at the resource specific LMP.
- The CC6470-DEC 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 shows the real-time excess cost for the classification.[5]
- The CC6488 shows the real-time exceptional dispatch uplift settlement for the classification.[6] The CC6620 shows the bid cost recovery payment for the classification. This cost is shown for all pre-day-ahead unit commitments only.

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

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

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

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

Table 1: Exceptional Dispatches in April 2010

California Independent System Operator Corporation Exceptional Dispatch Report July 30, 2010

Chart 2: Table of Exceptional Dispatches for Period 01/April/2010 - 30/April/2010

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	DA	G-206	SDG&E	San Diego	5-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$37,901	$0	$0	0.00	$0	$0	$0	$0	$17,208
2	DA	G-206	SDG&E	San Diego	6-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$37,901	$0	$1	1.00	$0	$0	$0	$0	$16,672
3	DA	G-206	SDG&E	San Diego	7-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$40,964	$0	$2	2.00	$0	$0	$0	$0	$11,481
4	DA	G-206	SDG&E	San Diego	8-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$43,377	$0	$3	3.00	$0	$0	$0	$0	$14,691
5	DA	G-206	SDG&E	San Diego	9-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$42,913	$0	$4	4.00	$0	$0	$0	$0	$29,764
6	DA	G-206	SDG&E	San Diego	10-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$40,779	$0	$5	5.00	$0	$0	$0	$0	$28,779
7	DA	G-206	SDG&E	San Diego	11-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$39,851	$0	$6	6.00	$0	$0	$0	$0	$12,457
8	DA	G-206	SDG&E	San Diego	12-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$39,851	$0	$7	7.00	$0	$0	$0	$0	$0
9	DA	G-206	SDG&E	San Diego	13-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$39,574	$0	$8	8.00	$0	$0	$0	$0	$14,057
10	DA	SP26 Capacity	SCE	LA Basin	16-Apr-10	20	Yes	N/A	9	7:00	15:00	180.00	$3,179	$21,236	$9	9.00	$0	$0	$0	$0	$41,836
11	DA	SP26 Capacity	SDG&E	San Diego	1-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$39,479	$0	$10	10.00	$0	$0	$0	$0	$13,890
12	DA	SP26 Capacity	SDG&E	San Diego	2-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$40,500	$0	$11	11.00	$0	$0	$0	$0	$0
13	DA	SP26 Capacity	SDG&E	San Diego	3-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$31,429	$0	$12	12.00	$0	$0	$0	$0	$17,357
14	DA	T-103	SCE	LA Basin	6-Apr-10	65-85	Yes	N/A	24	0:00	23:00	2000.00	$178,805	$123,974	$13	13.00	$0	$0	$0	$0	$205,654
15	DA	T-103	SCE	LA Basin	10-Apr-10	20-90	Yes	N/A	24	0:00	23:00	2020.00	$215,038	$0	$14	14.00	$0	$0	$0	$0	$167,395
16	DA	T-103	SCE	LA Basin	11-Apr-10	90	Yes	N/A	22	0:00	21:00	1980.00	$209,748	$0	$15	15.00	$0	$0	$0	$0	$143,585
17	DA	T-103	SDG&E	San Diego	6-Apr-10	240-395	Yes	N/A	24	0:00	23:00	9790.00	$336,063	$0	$16	16.00	$0	$0	$0	$0	$17,615
18	DA	T-103	SDG&E	San Diego	11-Apr-10	40	Yes	N/A	22	0:00	21:00	880.00	$50,590	$0	$17	17.00	$0	$0	$0	$0	$8,444
19	DA	T-132	SDG&E	San Diego	24-Apr-10	200	Yes	N/A	24	0:00	23:00	4800.00	$159,464	$0	$18	18.00	$0	$0	$0	$0	$0
20	DA	T-132	SDG&E	San Diego	25-Apr-10	200	Yes	N/A	24	0:00	23:00	4800.00	$159,464	$0	$19	19.00	$0	$0	$0	$0	$0
21	DA	T-132	SDG&E	San Diego	26-Apr-10	200	Yes	N/A	8	0:00	7:00	1600.00	$53,155	$0	$20	20.00	$0	$0	$0	$0	$0
22	DA	T-132	SDG&E	San Diego	27-Apr-10	200	Yes	N/A	24	0:00	23:00	4800.00	$159,464	$0	$21	21.00	$0	$0	$0	$0	$0
23	DA	T-132	SDG&E	San Diego	28-Apr-10	200	Yes	N/A	24	0:00	23:00	4800.00	$167,613	$0	$22	22.00	$0	$0	$0	$0	$0
24	DA	T-132	SDG&E	San Diego	29-Apr-10	200	Yes	N/A	24	0:00	23:00	4800.00	$82,743	$0	$23	23.00	$0	$0	$0	$0	$0
25	DA	Transmission Outage Other	SCE	LA Basin	22-Apr-10	30-125	Yes	N/A	22	0:00	21:00	2655.00	$245,271	$0	$24	24.00	$0	$0	$0	$0	$156,530
26	DA	Transmission Outage Other	SDG&E	San Diego	22-Apr-10	20-40	Yes	N/A	22	0:00	21:00	860.00	$59,386	$0	$25	25.00	$0	$0	$0	$0	$32,811
27	DA	Transmission Outage SCE	SCE	Big Creek-	18-Apr-10	50	Yes	N/A	6	18:00	23:00	300.00	$57,680	$70,977	$26	26.00	$0	$0	$0	$0	$117,44

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
				Ventura																	5
28	DA	Transmission Outage SCE	SCE	Big Creek-Ventura	19-Apr-10	50	Yes	N/A	24	0:00	23:00	1200.00	$230,720	$0	$27	27.00	$0	$0	$0	$0	$190,671
29	DA	Transmission Outage SCE	SCE	Big Creek-Ventura	20-Apr-10	50	Yes	N/A	24	0:00	23:00	1200.00	$230,720	$0	$28	28.00	$0	$0	$0	$0	$162,259
30	DA	Transmission Outage SCE	SCE	LA Basin	18-Apr-10	20	Yes	N/A	24	0:00	23:00	480.00	$62,856	$0	$29	29.00	$0	$0	$0	$0	$36,433
31	DA	Transmission Outage SCE	SCE	LA Basin	19-Apr-10	80	Yes	N/A	24	0:00	23:00	3240.00	$187,834	$160,750	$30	30.00	$0	$0	$0	$0	$265,378
32	DA	Transmission Outage SCE	SCE	LA Basin	20-Apr-10	75	Yes	N/A	24	0:00	23:00	1800.00	$200,880	$0	$31	31.00	$0	$0	$0	$0	$222,617
33	DA	Transmission Outage SCE	SCE	LA Basin	21-Apr-10	125	Yes	N/A	24	0:00	23:00	3000.00	$250,152	$0	$32	32.00	$0	$0	$0	$0	$134,157
34	DA	Transmission Outage SCE	SDG&E	San Diego	19-Apr-10	40	Yes	N/A	24	0:00	23:00	960.00	$64,890	$15,205	$33	33.00	$0	$0	$0	$0	$43,048
35	DA	Transmission Outage SCE	SDG&E	San Diego	20-Apr-10	40	Yes	N/A	24	0:00	23:00	960.00	$67,104	$0	$34	34.00	$0	$0	$0	$0	$0
36	DA	Transmission Outage SCE	SDG&E	San Diego	21-Apr-10	40	Yes	N/A	24	0:00	23:00	960.00	$68,193	$0	$35	35.00	$0	$0	$0	$0	$18,488
37	RT	Earthquake	PG&E	Fresno	4-Apr-10	83-171	No	INC	4	15:50	18:59	358.01	$59,760	$0	($17,984)	5.00	($199)	$0	($254)	$0	$0
38	RT	Earthquake	SCE	Big Creek-Ventura	4-Apr-10	64	No	INC	3	15:49	17:04	82.61	$34,687	$862	($4,997)	0.09	($3)	$0	($1)	$0	$0
39	RT	Earthquake	SCE	LA Basin	4-Apr-10	37	No	INC	3	15:49	17:04	45.96	$6,881	$343	($2,736)	5.10	($177)	$0	($25)	$0	$0
40	RT	Earthquake	SDG&E	San Diego	4-Apr-10	157-307	Yes	INC	4	16:11	19:59	1063.93	$39,518	$3,952	($40,655)	362.12	($12,289)	$0	($2,986)	$0	$0
41	RT	Earthquake	SDG&E	San Diego	5-Apr-10	20-40	Yes	INC	19	5:00	23:59	802.25	$38,586	$7,345	($43,207)	0.00	$0	$0	$0	$0	$0
42	RT	G-206	PG&E	Humboldt	3-Apr-10	5-10	Yes	INC	3	10:40	12:39	15.78	$3,968	$31	($632)	5.73	($226)	$0	$0	($1,045)	$0
43	RT	G-206	SDG&E	San Diego	3-Apr-10	36-284	Yes	INC	7	10:00	16:04	1219.71	$65,971	$4,561	($47,113)	389.97	($15,401)	$0	$0	($14,440)	$0
44	RT	G-206	SDG&E	San Diego	4-Apr-10	20-150	Yes	INC	24	0:00	23:59	1498.31	$33,953	$0	($63,981)	333.00	($10,029)	$0	$0	($3,803)	$0
45	RT	G-206	SDG&E	San Diego	21-Apr-10	89	No	INC	2	19:30	20:39	75.46	$0	$0	($2,519)	75.46	($2,519)	$0	$0	($1,068)	$0
46	RT	G-206	SDG&E	San Diego	22-Apr-10	100-222	No	DEC	2	5:15	6:19	(40.26)	$0	$0	$645	0.00	$0	$0	$0	$0	$0
47	RT	G-206	SDG&E	San Diego	22-Apr-10	48-219	Yes	INC	21	0:00	20:59	2750.66	$0	$0	($77,812)	2572.36	($72,144)	$0	$0	($32,098)	$0
48	RT	G-206	SDG&E	San Diego	29-Apr-10	100-222	No	DEC	4	20:40	23:59	(32.18)	$0	$0	$1,161	0.00	$0	$0	$0	$0	$0
49	RT	G-206	SDG&E	San Diego	29-Apr-10	43	No	INC	2	19:07	20:39	87.67	$0	$0	($2,014)	91.81	($2,042)	$0	$0	($1,337)	$0
50	RT	G-206	SDG&E	San Diego	30-Apr-10	200	Yes	INC	6	0:00	5:59	1185.64	$41,726	$0	($18,934)	0.00	$0	$0	$0	$0	$0
51	RT	G-217	SCE	LA Basin	13-Apr-10	25-71	Yes	INC	17	6:00	22:29	844.27	$37,216	$46,666	($34,707)	63.04	($2,347)	$0	$0	($293)	$0
52	RT	G-217	SCE	LA Basin	14-Apr-10	25	Yes	INC	24	0:00	23:59	897.63	$55,824	$0	($49,411)	77.09	($3,223)	$0	$0	$0	$0
53	RT	Generation Outage	PG&E	Bay Area	12-Apr-10	41-45	No	DEC	2	10:35	11:59	19.89	$0	$0	($892)	0.00	$0	$0	$0	$0	$0

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
54	RT	Generation Outage	PG&E	Bay Area	12-Apr-10	34-103	No	INC	2	9:00	10:34	77.69	$0	$0	($3,081)	66.62	($2,561)	$0	$0	($546)	$0
55	RT	Generation Outage	SDG&E	San Diego	12-Apr-10	255-283	No	DEC	2	10:45	11:59	(380.86)	$0	$0	$15,711	0.00	$0	$0	$0	$0	$0
56	RT	Intertie Emergency Assistance	N/A	N/A	4-Apr-10	100-120	No	INC	3	15:54	17:59	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
57	RT	Market Disruption	N/A	N/A	29-Apr-10	370-410	Yes	DEC	2	19:00	20:59	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
58	RT	Market Disruption	N/A	N/A	29-Apr-10	20-675	Yes	INC	2	19:00	20:59	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
59	RT	Market Disruption	SCE	LA Basin	19-Apr-10	30	No	DEC	1	8:22	8:36	(11.25)	$0	$0	$406	0.00	$0	$0	$0	$0	$0
60	RT	Market Disruption	SDG&E	San Diego	19-Apr-10	273	No	INC	1	8:27	8:39	70.92	$0	$0	($3,049)	43.05	($1,897)	$0	$0	$0	$0
61	RT	Ramp Rate	SCE	LA Basin	9-Apr-10	180	Yes	INC	1	18:18	18:59	151.47	$5,741	$9,112	($4,792)	39.05	($1,223)	$0	$0	$0	$0
62	RT	Ramp Rate	SCE	LA Basin	14-Apr-10	71	Yes	INC	4	18:25	21:09	319.54	$6,590	$0	($31,292)	77.09	($3,223)	$0	$0	$0	$0
63	RT	Ramp Rate	SCE	LA Basin	27-Apr-10	97-170	No	INC	5	17:15	21:59	512.76	$0	$0	($19,780)	490.10	($18,949)	$0	$0	$0	$0
64	RT	Ramp Rate	SDG&E	San Diego	21-Apr-10	33	No	DEC	11	12:45	22:34	(28.27)	$0	$0	$896	0.00	$0	$0	$0	$0	$0
65	RT	Ramp Rate	SDG&E	San Diego	21-Apr-10	80	No	INC	12	12:45	23:59	557.31	$0	$0	($20,180)	500.74	($18,004)	$0	$0	($2,760)	$0
66	RT	SDG&E Generation Requirement	SDG&E	San Diego	1-Apr-10	100-170	No	DEC	3	5:40	7:59	(57.66)	$0	$0	$2,168	0.00	$0	$0	$0	$0	$0
67	RT	SDG&E Generation Requirement	SDG&E	San Diego	1-Apr-10	80-561	Yes	INC	8	0:05	7:59	2408.96	$23,148	$6,957	($51,866)	1904.98	($41,526)	$0	($70,222)	$0	$0
68	RT	SDG&E Generation Requirement	SDG&E	San Diego	16-Apr-10	122-172	No	DEC	5	19:25	23:59	(279.75)	$0	$0	$7,094	0.00	$0	$0	$0	$0	$0
69	RT	SDG&E Generation Requirement	SDG&E	San Diego	23-Apr-10	143-265	No	DEC	5	19:25	23:59	(135.04)	$0	$0	$12,330	0.00	$0	$0	$0	$0	$0
70	RT	SDG&E Generation Requirement	SDG&E	San Diego	23-Apr-10	42-358	Yes	INC	3	15:08	17:21	452.09	$11,591	$2,764	($12,679)	227.27	($6,372)	$0	$0	($7,609)	$0
71	RT	SDG&E Generation Requirement	SDG&E	San Diego	24-Apr-10	63-143	No	DEC	3	0:00	2:59	309.23	$0	$0	($23,201)	172.29	($3,019)	$0	$0	($1,159)	$0
72	RT	SDG&E Import Limit	SDG&E	San Diego	21-Apr-10	89	No	INC	1	21:00	21:59	22.31	$0	$0	($798)	22.31	($798)	$0	$0	($225)	$0
73	RT	SDG&E Import Limit	SDG&E	San Diego	22-Apr-10	22-54	No	DEC	14	6:20	19:14	(118.64)	$0	$0	$2,977	0.00	$0	$0	$0	$0	$0
74	RT	SDG&E Import Limit	SDG&E	San Diego	22-Apr-10	89	No	INC	15	5:45	19:14	1151.08	$0	$0	($34,446)	1118.86	($33,038)	$0	$0	($20,070)	$0
75	RT	Software Limitation	N/A	N/A	21-Apr-10	78	No	DEC	2	0:50	1:09	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
76	RT	Software Limitation	PG&E	Bay Area	28-Apr-10	0	Yes	INC	3	8:50	10:24	2.01	$0	$0	($631)	0.00	$0	$0	$0	$0	$0
77	RT	Software Limitation	PG&E	Fresno	14-Apr-10	308	No	DEC	1	2:32	2:46	(102.67)	$0	$0	$2,247	0.00	$0	$0	$0	$0	$0
78	RT	Software Limitation	PG&E	Fresno	23-Apr-10	308	No	DEC	1	4:17	4:31	(154.00)	$0	$0	$3,858	0.00	$0	$0	$0	$0	$0
79	RT	Software Limitation	PG&E	Fresno	27-Apr-10	0	Yes	INC	2	12:47	13:31	4.67	$290	$16	($133)	0.00	$0	$0	$0	$0	$0
80	RT	Software Limitation	PG&E	Fresno	30-Apr-10	188	No	DEC	1	9:00	9:59	(188.42)	$0	$0	$3,736	0.00	$0	$0	$0	$0	$0
81	RT	Software Limitation	PG&E	N/A	15-Apr-10	0	Yes	INC	4	1:00	4:59	(6.25)	$1,782	$0	$201	0.00	$0	$0	$0	$0	$0

Num ber	Mark et Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	INC_ DEC	Hou rs	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC647 0 DEC	CC6482	CC6488	CC6620
82	RT	Software Limitation	PG&E	N/A	16-Apr-10	0	Yes	INC	5	0:30	4:29	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
83	RT	Software Limitation	PG&E	N/A	21-Apr-10	0	Yes	INC	5	0:45	4:44	101.62	$0	$0	($2,558)	0.00	$0	$0	$0	$0	$0
84	RT	Software Limitation	PG&E	N/A	27-Apr-10	0	Yes	INC	2	10:50	11:49	0.00	$0	$187	$0	0.00	$0	$0	$0	$0	$0
85	RT	Software Limitation	PG&E	N/A	28-Apr-10	47	Yes	INC	1	7:32	7:36	7.83	$485	$195	($278)	0.00	$0	$0	$0	$0	$0
86	RT	Software Limitation	PG&E	N/A	30-Apr-10	0	Yes	INC	4	13:00	16:59	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
87	RT	Software Limitation	PG&E	Sierra	24-Apr-10	0	Yes	INC	1	21:45	21:49	3.75	$0	$0	($83)	0.00	$0	$0	$0	$0	$0
88	RT	Software Limitation	SCE	Big Creek-Ventura	21-Apr-10	0	No	INC	23	1:10	23:59	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
89	RT	Software Limitation	SCE	Big Creek-Ventura	22-Apr-10	0	No	INC	2	0:00	1:09	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
90	RT	Software Limitation	SCE	LA Basin	1-Apr-10	0	No	INC	1	12:00	12:04	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
91	RT	Software Limitation	SCE	LA Basin	2-Apr-10	160	Yes	INC	5	17:35	21:59	1774.44	$29,352	$42,599	($47,62 4)	0.00	$0	$0	$0	$0	$0
92	RT	Software Limitation	SCE	LA Basin	20-Apr-10	25	Yes	INC	1	23:50	23:59	4.17	$415	$0	($69)	0.00	$0	$0	$0	$0	$0
93	RT	Software Limitation	SCE	LA Basin	21-Apr-10	25-300	No	DEC	8	16:05	23:59	(519.96)	$0	$0	$9,611	(218.18)	$0	$888	$0	$0	$0
94	RT	Software Limitation	SCE	LA Basin	21-Apr-10	0	Yes	INC	5	0:30	4:29	0.00	$361	$0	$0	0.00	$0	$0	$0	$0	$0
95	RT	Software Limitation	SCE	LA Basin	29-Apr-10	0	Yes	INC	2	20:40	21:59	1.65	$0	$0	($81)	0.00	$0	$0	$0	$0	$0
96	RT	Software Limitation	SCE	N/A	7-Apr-10	60	Yes	DEC	1	9:10	9:59	(8.17)	$0	$0	$252	0.00	$0	$0	$0	$0	$0
97	RT	Software Limitation	SDG&E	N/A	2-Apr-10	170	Yes	INC	6	16:35	21:59	1860.92	$22,464	$0	($47,58 9)	135.42	($3,712)	$0	$0	$0	$0
98	RT	Software Limitation	SDG&E	San Diego	2-Apr-10	41	Yes	INC	3	15:50	17:59	88.01	$2,485	$556	($6,387)	46.30	($3,164)	$0	$0	$0	$0
99	RT	Software Limitation	SDG&E	San Diego	10-Apr-10	20-45	No	DEC	24	0:00	23:59	(459.57)	$0	$0	$10,582	(458.31)	$0	$9,785	$0	$0	$0
100	RT	Software Limitation	SDG&E	San Diego	10-Apr-10	0	No	INC	24	0:00	23:59	(0.83)	$0	$0	$15	0.00	$0	$0	$0	$0	$0
101	RT	Software Limitation	SDG&E	San Diego	23-Apr-10	0	No	INC	9	0:00	8:14	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
102	RT	System Energy	N/A	N/A	15-Apr-10	200	No	INC	1	19:00	19:59	0.00	$0	$0	$0	0.00	$0	$0	$0	$0	$0
103	RT	T-103	SCE	LA Basin	9-Apr-10	70	Yes	INC	3	16:00	18:17	348.81	$14,926	$25,514	($30,24 4)	0.00	$0	$0	$0	$0	$0
104	RT	T-103	SDG&E	San Diego	10-Apr-10	20	Yes	INC	22	2:00	23:59	423.61	$19,362	$1,902	($44,58 4)	0.00	$0	$0	$0	$0	$0
105	RT	T-122	PG&E	Bay Area	30-Apr-10	380	Yes	INC	9	0:30	8:59	3221.47	$80,562	$0	($67,01 7)	1070.97	($22,23 6)	$0	$0	($38,33 8)	$0
106	RT	T-122	SCE	Big Creek-Ventura	29-Apr-10	232	No	DEC	1	18:09	18:50	(143.25)	$0	$0	$2,222	(152.52)	$0	$2,366	$0	($1)	$0
107	RT	T-132	SDG&E	San Diego	3-Apr-10	48	No	INC	9	3:45	11:59	253.75	$0	$0	($7,058)	284.23	($8,323)	$0	$0	($3,490)	$0
108	RT	T-132	SDG&E	San Diego	16-Apr-10	172	No	DEC	1	19:20	19:24	(14.27)	$0	$0	$415	0.00	$0	$0	$0	$0	$0
109	RT	T-132	SDG&E	San Diego	17-Apr-10	100-170	No	DEC	8	0:00	7:59	(156.39)	$0	$0	$1,258	0.00	$0	$0	$0	$0	$0
110	RT	T-132	SDG&E	San Diego	19-Apr-10	48	No	INC	8	13:40	20:59	726.65	$0	$0	($31,20 8)	178.32	($7,266)	$0	$0	$0	$0
111	RT	T-138	PG&E	Humboldt	1-Apr-10	5-15	No	DEC	6	1:25	6:59	0.32	$0	$0	$9	0.00	$0	$0	$0	$0	$0

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Comm itment	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
112	RT	T-138	PG&E	Humboldt	1-Apr-10	5-15	No	INC	13	0:00	12:49	93.96	$0	$0	($3,068)	91.67	($3,008)	$0	$0	($4,322)	$0
113	RT	T-138	PG&E	Humboldt	2-Apr-10	10	Yes	DEC	2	20:45	21:49	(12.08)	$0	$0	$327	0.00	$0	$0	$0	$0	$0
114	RT	T-138	PG&E	Humboldt	2-Apr-10	0	Yes	INC	1	22:25	22:54	0.42	$0	$0	($10)	0.00	$0	$0	$0	$0	$0
115	RT	T-138	PG&E	Humboldt	3-Apr-10	10	Yes	INC	6	8:00	13:19	37.97	$2,976	$26	($1,506)	27.92	($1,091)	$0	$0	($813)	$0
116	RT	T-138	PG&E	Humboldt	4-Apr-10	30	No	INC	7	15:40	21:59	44.77	$0	$0	($2,453)	37.99	($1,281)	$0	$0	($1,356)	$0
117	RT	T-138	PG&E	Humboldt	5-Apr-10	5	Yes	DEC	5	19:55	23:01	(11.15)	$0	$0	$451	0.00	$0	$0	$0	$0	$0
118	RT	T-138	PG&E	Humboldt	5-Apr-10	10	Yes	INC	5	19:55	23:54	11.46	$2,315	$0	($428)	4.93	($200)	$0	$0	($891)	$0
119	RT	T-138	PG&E	Humboldt	6-Apr-10	10	Yes	DEC	2	20:30	21:19	(8.33)	$0	$0	$333	0.00	$0	$0	$0	$0	$0
120	RT	T-138	PG&E	Humboldt	8-Apr-10	15	Yes	INC	5	19:30	23:59	23.96	$3,968	$0	($755)	12.33	($404)	$0	$0	($2,274)	$0
121	RT	T-138	PG&E	Humboldt	9-Apr-10	20-25	No	DEC	4	6:50	9:49	(65.78)	$0	$0	$2,191	(61.98)	$0	$2,075	$0	($2,058)	$0
122	RT	T-138	PG&E	Humboldt	9-Apr-10	15	Yes	INC	11	0:00	10:14	64.48	$10,581	$59	($2,149)	35.57	($1,217)	$0	$0	($5,094)	$0
123	RT	T-138	PG&E	Humboldt	14-Apr-10	5-37	No	INC	4	1:25	4:19	105.58	$0	$0	($3,037)	97.40	($2,779)	$0	$0	($4,058)	$0
124	RT	T-138	PG&E	Humboldt	15-Apr-10	5-10	No	INC	3	7:35	9:59	20.78	$0	$0	($642)	19.38	($599)	$0	$0	($631)	$0
125	RT	T-138	PG&E	Humboldt	21-Apr-10	30	Yes	INC	2	22:05	23:59	57.08	$5,291	$119	($1,681)	37.92	($1,113)	$0	$0	($5,737)	$0
126	RT	T-138	PG&E	Humboldt	22-Apr-10	5-30	Yes	INC	4	0:00	3:59	53.33	$3,968	$59	($1,491)	28.96	($857)	$0	$0	($5,217)	$0
127	RT	T-138	PG&E	Humboldt	26-Apr-10	5-10	No	DEC	2	22:55	23:59	0.57	$0	$0	($11)	0.00	$0	$0	$0	$0	$0
128	RT	T-138	PG&E	Humboldt	26-Apr-10	20	Yes	INC	12	12:00	23:59	141.05	$5,291	$56	($5,119)	117.08	($4,307)	$0	$0	($5,517)	$0
129	RT	T-138	PG&E	Humboldt	27-Apr-10	5	No	DEC	18	0:20	17:09	0.36	$0	$0	($10)	0.00	$0	$0	$0	$0	$0
130	RT	T-138	PG&E	Humboldt	27-Apr-10	15	Yes	INC	24	0:00	23:59	43.80	$5,291	$63	($1,193)	23.54	($665)	$0	$0	($1,584)	$0
131	RT	T-138	PG&E	Humboldt	28-Apr-10	10	Yes	INC	24	0:00	23:14	36.66	$3,968	$0	($1,547)	22.60	($863)	$0	$0	($700)	$0
132	RT	T-138	PG&E	Humboldt	29-Apr-10	15	No	INC	1	23:00	23:59	14.27	$0	$0	($423)	14.24	($422)	$0	$0	($674)	$0
133	RT	T-138	PG&E	Humboldt	30-Apr-10	10	No	INC	24	0:00	23:49	14.37	$0	$0	($358)	13.28	($334)	$0	$0	($524)	$0
134	RT	Transmission Outage Other	SDG&E	San Diego	21-Apr-10	32	No	DEC	2	22:40	23:59	(41.31)	$0	$0	$1,064	0.00	$0	$0	$0	$0	$0
135		Transmission Outage Other	SDG&E	San Diego	22-Apr-10	32-122	No	DEC	2	0:00	1:44	(1.78)	$0	$0	$80	0.00	$0	$0	$0	$0	$0
136		Transmission Outage Other	SDG&E	San Diego	22-Apr-10	80	No	INC	3	0:05	2:59	(1.26)	$0	$0	($91)	0.00	$0	$0	$0	$0	$0
137		Transmission Outage PG&E	PG&E	Humboldt	8-Apr-10	5-50	No	DEC	14	10:44	23:59	(246.03)	$0	$0	$8,342	(236.60)	$0	$8,021	$0	($7,407)	$0
138		Transmission Outage PG&E	PG&E	Humboldt	9-Apr-10	10-30	No	DEC	10	0:00	9:49	(153.96)	$0	$0	$4,146	(152.45)	$0	$4,093	$0	($4,204)	$0
139		Transmission Outage PG&E	PG&E	Humboldt	9-Apr-10	0	No	INC	7	0:00	6:49	(0.63)	$0	$0	$17	0.00	$0	$0	$0	$0	$0
140		Transmission Outage PG&E	PG&E	Humboldt	18-Apr-10	20	No	INC	13	6:50	18:29	153.85	$0	$0	($4,941)	145.99	($4,685)	$0	$0	($2,826)	$0
141		Transmission Outage PG&E	PG&E	Sierra	18-Apr-10	28-43	No	DEC	8	1:25	8:59	(249.10)	$0	$0	$5,770	(193.89)	$0	$4,933	$0	($4,728)	$0
142		Transmission Outage PG&E	PG&E	Sierra	25-Apr-10	6-48	No	DEC	15	0:35	14:16	(206.26)	$0	$0	$5,336	(173.47)	$0	$4,597	$0	($2,853)	$0

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC6620
143		Transmission Outage PG&E	PG&E	Sierra	26-Apr-10	12-34	No	DEC	7	17:05	23:59	(116.84)	$0	$0	$3,653	(99.24)	$0	$3,156	$0	($33)	$0
144		Transmission Outage PG&E	PG&E	Sierra	27-Apr-10	5-15	No	DEC	10	12:55	21:59	(82.92)	$0	$0	$2,254	(82.29)	$0	$2,239	$0	($1,986)	$0
145		Transmission Outage PG&E	PG&E	Sierra	27-Apr-10	28	No	INC	8	0:00	7:29	(7.10)	$0	$0	$299	0.00	$0	$0	$0	$0	$0
146		Transmission Outage PG&E	PG&E	Sierra	28-Apr-10	10-40	No	DEC	9	13:20	21:59	(281.20)	$0	$0	$11,057	(244.48)	$0	$10,295	$0	($9,957)	$0
147		Transmission Outage PG&E	PG&E	Sierra	29-Apr-10	5-85	No	DEC	22	2:45	23:09	(1107.26)	$0	$0	$25,734	(964.58)	$0	$23,274	$0	($21,917)	$0
148		Transmission Outage PG&E	PG&E	Sierra	29-Apr-10	30	No	INC	2	22:45	23:59	(4.59)	$0	$0	$145	0.00	$0	$0	$0	$0	$0
149		Transmission Outage PG&E	PG&E	Sierra	30-Apr-10	12-97	No	DEC	23	0:00	22:14	(1028.18)	$0	$0	$20,341	(868.08)	$0	$17,829	$0	($17,736)	$0
150		Transmission Outage PG&E	PG&E	Sierra	30-Apr-10	50	Yes	INC	2	20:55	21:59	63.02	$0	$0	($1,658)	0.00	$0	$0	$0	$0	$0
151		Transmission Outage SCE	SCE	LA Basin	17-Apr-10	20	Yes	INC	6	18:00	23:59	268.31	$13,095	$0	($14,186)	0.00	$0	$0	$0	$0	$0
152		Transmission Outage SCE	SCE	LA Basin	19-Apr-10	10	Yes	INC	13	11:00	23:59	1051.02	$20,592	$30,899	($44,143)	0.00	$0	$0	$0	$0	$0
153		Transmission Outage SCE	SCE	LA Basin	20-Apr-10	70	Yes	INC	24	0:00	23:59	3116.54	$112,997	$0	($133,807)	0.00	$0	$0	$0	$0	$0
154		Transmission Outage SCE	SCE	N/A	7-Apr-10	24-44	No	DEC	2	10:35	11:59	(44.41)	$0	$0	$2,005	(38.57)	$0	$1,739	$0	($548)	$0
155		Transmission Outage SDG&E	SCE	LA Basin	9-Apr-10	70	Yes	INC	5	19:00	23:59	1854.29	$34,445	$54,673	($64,723)	0.00	$0	$0	$0	$0	$0
156		Transmission Outage SDG&E	SCE	LA Basin	20-Apr-10	25	Yes	INC	3	21:20	23:59	268.59	$6,635	$0	($19,695)	0.00	$0	$0	$0	$0	$0
157		Transmission Outage SDG&E	SCE	LA Basin	21-Apr-10	25	Yes	INC	24	0:00	23:59	850.91	$58,883	$0	($41,450)	0.00	$0	$0	$0	$0	$0
158		Transmission Outage SDG&E	SDG&E	San Diego	4-Apr-10	257-547	Yes	INC	4	20:00	23:59	2273.18	$30,203	$14,655	($90,694)	32.08	$186	$0	$0	($943)	$0
159		Transmission Outage SDG&E	SDG&E	San Diego	5-Apr-10	257-547	Yes	INC	24	0:00	23:59	13071.39	$186,321	$0	($569,587)	544.96	($10,944)	$0	$0	($4,431)	$0
160		Transmission Outage SDG&E	SDG&E	San Diego	24-Apr-10	63	No	DEC	1	2:25	2:59	22.33	$0	$0	($0)	0.00	$0	$0	$0	$0	$0
161		Transmission Outage SDG&E	SDG&E	San Diego	24-Apr-10	213-272	Yes	INC	2	1:05	2:59	378.97	$6,334	$411	($6,157)	176.04	($3,068)	$0	$0	($1,232)	$0
162		Voltage Support	PG&E	Fresno	25-Apr-10	308	No	DEC	2	8:36	9:24	(282.33)	$0	$0	$7,643	0.00	$0	$0	$0	$0	$0
163		Voltage Support	SCE	LA Basin	3-Apr-10	20	Yes	INC	3	21:30	23:59	417.68	$5,750	$41,045	($15,554)	0.00	$0	$0	$0	$0	$0
164		Voltage Support	SCE	LA Basin	4-Apr-10	0	No	INC	9	0:00	8:59	198.50	$0	$0	($5,831)	0.00	$0	$0	$0	$0	$0

Appendix A: Explanation by Example

All examples listed below are based on fictitious data. Many simplified assumptions are made to explain settlement charge codes, and not all assumptions are explicitly stated in these examples.
 For instance settlement charge codes are calculated based on metered quantities, whereas, in these examples the dispatch quantities are assumed to be equal to metered quantities. These assumptions have been made to simplify the understanding of settlements calculations.

Example 1: Exceptional Dispatch Instructions Prior to DAM

In this fictitious example the ISO issued an exceptional dispatch instruction for resource A to be committed at its Pmin of 50 MW from hours ending 5 through 10 for a generation procedure G-206. 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 costs[7]. Only those quantities which are relevant to pre-day-ahead unit commitments are shown in this table.

Table 2: Instructions Prior to Day-Ahead Market

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

This data is summarized as shown in Table 3, which is the prescribed format specified in the FERC order on September 02, 2009. This summary classifies the data by reason, resource location, local reliability area, and trade date. The MW column in Table 3 is the range of MW; in this case the minimum instruction MW is 20 MW for resource C which occurs from hours ending 21 through 23. The maximum instruction occurs in hour ending 10. In this hour resource A is committed at 50 MW, resource B is committed at 30 MW and resource C is committed at 20 MW. This adds up to 100 MW. Thus the MW column shows the minimum and maximum of the overlaps of all the exceptional dispatch instructions. The commitment column shows whether a resource was committed between the begin time and end time. Commitments are broken out separately from energy dispatches. In the day-ahead, however the exceptional dispatches are nearly always just commitments, as in this example. The begin time shows hour ending 5 as this was the hour ending for first dispatch of the day, and the end time shows hour ending 23, as this was the hour with last dispatch. It is also possible that there might be some hours between the begin time and the end time where there might not be exceptional dispatch instructions for the given reason, meaning that the range between the begin time and end time can include null hours with no dispatch. The total volume (MWh) is the sum of MWh quantity for each resource, which adds up to 990 MWh. Similarly, all cost information is sum of individual resource costs. It is possible that some resource bid-in zero start-up cost; as seen in this example, resource A bid in zero for its start up cost. Since the ISO does not explicitly pay a resource for bid-in minimum load costs and start-up costs; these costs are recovered through the charge code CC6620 (Bid cost Recovery), this table shows the summary of CC6620 for the classification. In this case it is the sum of CC6620 for all three resources which adds up to $5000. This column shows the impact of exceptional dispatch on bid cost recovery for all pre-day-ahead exceptional dispatch commitments.

Table 3: FERC Summary of Instructions Prior to DAM

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

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

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

Table 4: Incremental Exceptional Dispatch Instructions in RTM

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

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

Table 5: FERC Summary of ED Instructions in RTM

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

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

Example 3: Decremental Exceptional Dispatch Instructions in RTM

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

The 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. The 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 it is pricing node is $50/MWh. Based on this information, volume and cost information is calculated for resource C.

Table 6: Decremental Exceptional Dispatch Instructions in RTM

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

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

Table 7: FERC Summary of Decremental ED Instructions in RTM

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

Appendix B: Price Impact Analysis

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

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

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

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

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

Table 8 shows the price impact analysis information for node A, which is located in the PG&E area. This table shows all the five minute intervals in which the resource at PNode A was issued an exceptional dispatch instruction. Out of the 8640 five-minute intervals in April, this resource was issued exceptional dispatch instructions in 102 five-minute intervals. It was eligible to set the LMP in all the 102 intervals. The resource calculated LMP was larger than the market LMP in all the102 intervals, and the average increase in five minute LMP was $104.18/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 $104.18/MWh. Note that 102 five minute intervals are approximately 1 percent of the total 8640 five minute intervals.

Table 9 shows the price impact analysis information for node B, which is located in the SDG&E 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 8640 five minute intervals, this resource was issued an exceptional dispatch instruction in 847 five minute intervals. This resource was eligible to set the LMP in 748 intervals. Out of the 748 intervals, resource calculated LMP was larger than the market LMP in 645 intervals. In the 645 intervals, the average increase in five minute LMP was $14.34/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 $14.34/MWh. The 645 five minute intervals account for approximately 7.47 percent of the total 8640 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	30-Apr-10	1	7	$28.23	Yes	$125.00	$96.77
2	30-Apr-10	1	8	$30.16	Yes	$125.00	$94.84
3	30-Apr-10	1	9	$28.23	Yes	$125.00	$96.77
4	30-Apr-10	1	10	$18.96	Yes	$125.00	$106.04
5	30-Apr-10	1	11	$10.54	Yes	$125.00	$114.46
6	30-Apr-10	1	12	$18.96	Yes	$125.00	$106.04
7	30-Apr-10	2	1	$27.00	Yes	$125.00	$98.00
8	30-Apr-10	2	2	$23.97	Yes	$125.00	$101.03
9	30-Apr-10	2	3	$28.16	Yes	$125.00	$96.84
10	30-Apr-10	2	4	$28.11	Yes	$125.00	$96.89
11	30-Apr-10	2	5	$28.11	Yes	$125.00	$96.89
12	30-Apr-10	2	6	$26.99	Yes	$125.00	$98.01
13	30-Apr-10	2	7	$1.03	Yes	$125.00	$123.97
14	30-Apr-10	2	8	$1.03	Yes	$125.00	$123.97
15	30-Apr-10	2	9	$1.03	Yes	$125.00	$123.97
16	30-Apr-10	2	10	$19.20	Yes	$125.00	$105.80
17	30-Apr-10	2	11	$19.20	Yes	$125.00	$105.80
18	30-Apr-10	2	12	$1.09	Yes	$125.00	$123.91
19	30-Apr-10	3	1	$20.43	Yes	$125.00	$104.57
20	30-Apr-10	3	2	$20.43	Yes	$125.00	$104.57
21	30-Apr-10	3	3	$20.43	Yes	$125.00	$104.57
22	30-Apr-10	3	4	$28.51	Yes	$125.00	$96.49
23	30-Apr-10	3	5	$20.39	Yes	$125.00	$104.61
24	30-Apr-10	3	6	$20.39	Yes	$125.00	$104.61
25	30-Apr-10	3	7	$19.73	Yes	$125.00	$105.27
26	30-Apr-10	3	8	$1.09	Yes	$125.00	$123.91
27	30-Apr-10	3	9	$1.09	Yes	$125.00	$123.91
28	30-Apr-10	3	10	$5.43	Yes	$125.00	$119.57
29	30-Apr-10	3	11	$19.60	Yes	$125.00	$105.40
30	30-Apr-10	3	12	$19.60	Yes	$125.00	$105.40
31	30-Apr-10	4	1	$19.28	Yes	$125.00	$105.72
32	30-Apr-10	4	2	$28.47	Yes	$125.00	$96.53
33	30-Apr-10	4	3	$29.23	Yes	$125.00	$95.77
34	30-Apr-10	4	4	$20.05	Yes	$125.00	$104.95
35	30-Apr-10	4	5	$20.05	Yes	$125.00	$104.95
36	30-Apr-10	4	6	$20.05	Yes	$125.00	$104.95
37	30-Apr-10	4	7	$20.07	Yes	$125.00	$104.93
38	30-Apr-10	4	8	$20.07	Yes	$125.00	$104.93
39	30-Apr-10	4	9	$20.07	Yes	$125.00	$104.93
40	30-Apr-10	4	10	$20.10	Yes	$125.00	$104.90
41	30-Apr-10	4	11	$20.10	Yes	$125.00	$104.90
42	30-Apr-10	4	12	$20.10	Yes	$125.00	$104.90

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
43	30-Apr-10	5	1	$1.11	Yes	$125.00	$123.89
44	30-Apr-10	5	2	$0.68	Yes	$125.00	$124.32
45	30-Apr-10	5	3	$1.11	Yes	$125.00	$123.89
46	30-Apr-10	5	4	$1.12	Yes	$125.00	$123.88
47	30-Apr-10	5	5	$19.97	Yes	$125.00	$105.03
48	30-Apr-10	5	6	$25.09	Yes	$125.00	$99.91
49	30-Apr-10	5	7	$27.38	Yes	$125.00	$97.62
50	30-Apr-10	5	8	$20.04	Yes	$125.00	$104.96
51	30-Apr-10	5	9	$28.64	Yes	$125.00	$96.36
52	30-Apr-10	5	10	$29.23	Yes	$125.00	$95.77
53	30-Apr-10	5	11	$29.70	Yes	$125.00	$95.30
54	30-Apr-10	5	12	$29.70	Yes	$125.00	$95.30
55	30-Apr-10	6	1	$10.21	Yes	$125.00	$114.79
56	30-Apr-10	6	2	$10.58	Yes	$125.00	$114.42
57	30-Apr-10	6	3	$24.88	Yes	$125.00	$100.12
58	30-Apr-10	6	4	$19.29	Yes	$125.00	$105.71
59	30-Apr-10	6	5	$28.79	Yes	$125.00	$96.21
60	30-Apr-10	6	6	$28.79	Yes	$125.00	$96.21
61	30-Apr-10	6	7	$1.10	Yes	$125.00	$123.90
62	30-Apr-10	6	8	$19.38	Yes	$125.00	$105.62
63	30-Apr-10	6	9	$19.38	Yes	$125.00	$105.62
64	30-Apr-10	6	10	$28.89	Yes	$125.00	$96.11
65	30-Apr-10	6	11	$29.61	Yes	$125.00	$95.39
66	30-Apr-10	6	12	$32.05	Yes	$125.00	$92.95
67	30-Apr-10	7	1	$0.69	Yes	$125.00	$124.31
68	30-Apr-10	7	2	$0.02	Yes	$125.00	$124.98
69	30-Apr-10	7	3	$1.03	Yes	$125.00	$123.97
70	30-Apr-10	7	4	$1.04	Yes	$125.00	$123.96
71	30-Apr-10	7	5	$1.06	Yes	$125.00	$123.94
72	30-Apr-10	7	6	$20.01	Yes	$125.00	$104.99
73	30-Apr-10	7	7	$22.30	Yes	$125.00	$102.70
74	30-Apr-10	7	8	$22.62	Yes	$125.00	$102.38
75	30-Apr-10	7	9	$33.04	Yes	$125.00	$91.96
76	30-Apr-10	7	10	$32.01	Yes	$125.00	$92.99
77	30-Apr-10	7	11	$32.01	Yes	$125.00	$92.99
78	30-Apr-10	7	12	$33.40	Yes	$125.00	$91.60
79	30-Apr-10	8	1	$21.02	Yes	$125.00	$103.98
80	30-Apr-10	8	2	$21.21	Yes	$125.00	$103.79
81	30-Apr-10	8	3	$29.44	Yes	$125.00	$95.56
82	30-Apr-10	8	4	$29.38	Yes	$125.00	$95.62
83	30-Apr-10	8	5	$29.38	Yes	$125.00	$95.62
84	30-Apr-10	8	6	$29.38	Yes	$125.00	$95.62
85	30-Apr-10	8	7	$29.35	Yes	$125.00	$95.65
86	30-Apr-10	8	8	$31.82	Yes	$125.00	$93.18
87	30-Apr-10	8	9	$30.59	Yes	$125.00	$94.41

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
88	30-Apr-10	8	10	$30.80	Yes	$125.00	$94.20
89	30-Apr-10	8	11	$30.80	Yes	$125.00	$94.20
90	30-Apr-10	8	12	$29.54	Yes	$125.00	$95.46
91	30-Apr-10	9	1	$21.19	Yes	$125.00	$103.81
92	30-Apr-10	9	2	$21.47	Yes	$125.00	$103.53
93	30-Apr-10	9	3	$28.71	Yes	$125.00	$96.29
94	30-Apr-10	9	4	$21.49	Yes	$125.00	$103.51
95	30-Apr-10	9	5	$27.57	Yes	$125.00	$97.43
96	30-Apr-10	9	6	$29.23	Yes	$125.00	$95.77
97	30-Apr-10	9	7	$32.60	Yes	$125.00	$92.40
98	30-Apr-10	9	8	$33.37	Yes	$125.00	$91.63
99	30-Apr-10	9	9	$29.88	Yes	$125.00	$95.12
100	30-Apr-10	9	10	$30.30	Yes	$125.00	$94.70
101	30-Apr-10	9	11	$22.02	Yes	$125.00	$102.98
102	30-Apr-10	9	12	$22.79	Yes	$125.00	$102.21

Table 9: Price Impact Analysis Information for Pricing Node B in SDG&E LAP

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	1-Apr-10	1	2	$37.12	Yes	$48.00	$10.88
2	1-Apr-10	1	3	$27.57	Yes	$48.00	$20.43
3	1-Apr-10	1	4	$40.10	Yes	$48.00	$7.90
4	1-Apr-10	1	5	$40.10	Yes	$48.00	$7.90
5	1-Apr-10	1	6	$38.09	Yes	$48.00	$9.91
6	1-Apr-10	1	7	$39.68	Yes	$48.00	$8.32
7	1-Apr-10	1	8	$39.68	Yes	$48.00	$8.32
8	1-Apr-10	1	9	$37.19	Yes	$48.00	$10.81
9	1-Apr-10	1	10	$34.55	Yes	$48.00	$13.45
10	1-Apr-10	1	11	$30.53	Yes	$48.00	$17.47
11	1-Apr-10	1	12	$27.20	Yes	$48.00	$20.80
12	1-Apr-10	2	1	$19.97	Yes	$48.00	$28.03
13	1-Apr-10	2	2	$0.67	Yes	$48.00	$47.33
14	1-Apr-10	2	3	$0.67	Yes	$48.00	$47.33
15	1-Apr-10	2	4	$27.28	Yes	$48.00	$20.72
16	1-Apr-10	2	5	$27.28	Yes	$48.00	$20.72
17	1-Apr-10	2	6	$27.28	Yes	$48.00	$20.72
18	1-Apr-10	2	7	$27.41	Yes	$48.00	$20.59
19	1-Apr-10	2	8	$26.97	Yes	$48.00	$21.03
20	1-Apr-10	2	9	$26.97	Yes	$48.00	$21.03
21	1-Apr-10	2	10	$27.09	Yes	$48.00	$20.91
22	1-Apr-10	2	11	$25.92	Yes	$48.00	$22.08

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
23	1-Apr-10	2	12	$25.16	Yes	$48.00	$22.84
24	1-Apr-10	3	1	$30.15	Yes	$48.00	$17.85
25	1-Apr-10	3	2	$27.29	Yes	$48.00	$20.71
26	1-Apr-10	3	3	$27.29	Yes	$48.00	$20.71
27	1-Apr-10	3	4	$27.21	Yes	$48.00	$20.79
28	1-Apr-10	3	5	$27.21	Yes	$48.00	$20.79
29	1-Apr-10	3	6	$27.26	Yes	$48.00	$20.74
30	1-Apr-10	3	7	$0.66	Yes	$48.00	$47.34
31	1-Apr-10	3	8	$0.66	Yes	$48.00	$47.34
32	1-Apr-10	3	9	$19.37	Yes	$48.00	$28.63
33	1-Apr-10	3	10	$20.26	Yes	$48.00	$27.74
34	1-Apr-10	3	11	$19.12	Yes	$48.00	$28.88
35	1-Apr-10	3	12	$15.84	Yes	$48.00	$32.16
36	1-Apr-10	4	1	$19.58	Yes	$48.00	$28.42
37	1-Apr-10	4	2	$19.56	Yes	$48.00	$28.44
38	1-Apr-10	4	3	$14.10	Yes	$48.00	$33.90
39	1-Apr-10	4	4	$9.28	Yes	$48.00	$38.72
40	1-Apr-10	4	5	$9.92	Yes	$48.00	$38.08
41	1-Apr-10	4	6	$0.67	Yes	$48.00	$47.33
42	1-Apr-10	4	7	$25.10	Yes	$48.00	$22.90
43	1-Apr-10	4	8	$20.25	Yes	$48.00	$27.75
44	1-Apr-10	4	9	$20.77	Yes	$48.00	$27.23
45	1-Apr-10	4	10	$21.02	Yes	$48.00	$26.98
46	1-Apr-10	4	11	$21.27	Yes	$48.00	$26.73
47	1-Apr-10	4	12	$0.65	Yes	$48.00	$47.35
48	1-Apr-10	5	1	$0.00	Yes	$48.00	$48.00
49	1-Apr-10	5	2	$0.00	Yes	$46.86	$46.86
50	1-Apr-10	5	3	-$30.51	Yes	$46.86	$77.37
51	1-Apr-10	5	4	-$1.33	Yes	$46.86	$48.19
52	1-Apr-10	5	5	$0.00	Yes	$46.86	$46.86
53	1-Apr-10	5	6	$0.00	Yes	$46.86	$46.86
54	1-Apr-10	5	7	$0.00	Yes	$46.86	$46.86
55	1-Apr-10	5	8	$0.00	Yes	$46.86	$46.86
56	1-Apr-10	5	9	$0.00	Yes	$46.86	$46.86
57	1-Apr-10	5	10	$3.35	Yes	$46.86	$43.51
58	1-Apr-10	5	11	$25.13	Yes	$46.86	$21.73
59	1-Apr-10	5	12	$23.08	Yes	$46.86	$23.78
60	1-Apr-10	6	1	-$34.42	Yes	$46.86	$81.28
61	1-Apr-10	6	2	$0.00	Yes	$46.86	$46.86
62	1-Apr-10	6	2	$0.00	Yes	$43.34	$43.34
63	1-Apr-10	6	3	$0.00	Yes	$43.34	$43.34
64	1-Apr-10	6	4	$0.00	Yes	$43.34	$43.34
65	1-Apr-10	6	5	$36.46	Yes	$43.34	$6.88
66	1-Apr-10	6	6	$35.64	Yes	$43.34	$7.70
67	1-Apr-10	6	7	$24.25	Yes	$43.34	$19.09

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
68	1-Apr-10	6	8	$25.23	Yes	$43.34	$18.11
69	1-Apr-10	6	9	$25.23	Yes	$42.86	$17.63
70	1-Apr-10	6	10	$29.13	Yes	$42.86	$13.73
71	1-Apr-10	6	11	$30.08	Yes	$42.86	$12.78
72	1-Apr-10	6	12	$31.27	Yes	$42.86	$11.59
73	1-Apr-10	7	1	$25.30	Yes	$42.86	$17.56
74	1-Apr-10	7	2	$27.70	Yes	$42.86	$15.16
75	1-Apr-10	7	3	$29.36	Yes	$42.86	$13.50
76	1-Apr-10	7	4	$37.08	Yes	$42.86	$5.78
77	1-Apr-10	7	5	$30.81	Yes	$42.86	$12.05
78	1-Apr-10	7	6	$37.08	Yes	$42.86	$5.78
79	1-Apr-10	7	7	$36.82	Yes	$42.86	$6.04
80	1-Apr-10	7	8	$37.03	Yes	$42.86	$5.83
81	1-Apr-10	7	9	$36.82	Yes	$42.86	$6.04
82	1-Apr-10	7	10	$45.99	Yes	$42.86	-$3.13
83	1-Apr-10	7	11	$48.81	Yes	$42.86	-$5.95
84	1-Apr-10	7	12	$53.01	Yes	$42.86	-$10.15
85	1-Apr-10	8	1	$45.84	Yes	$42.86	-$2.98
86	1-Apr-10	8	2	$45.84	Yes	$42.86	-$2.98
87	1-Apr-10	8	3	$45.84	Yes	$42.86	-$2.98
88	1-Apr-10	8	4	$46.57	Yes	$42.86	-$3.71
89	1-Apr-10	8	5	$46.57	Yes	$42.86	-$3.71
90	1-Apr-10	8	6	$46.86	Yes	$42.86	-$4.00
91	1-Apr-10	8	7	$46.16	Yes	$42.86	-$3.30
92	1-Apr-10	8	8	$46.16	Yes	$42.86	-$3.30
93	1-Apr-10	8	9	$46.92	Yes	$42.86	-$4.06
94	1-Apr-10	8	10	$50.46	Yes	$42.86	-$7.60
95	1-Apr-10	8	11	$50.46	Yes	$42.86	-$7.60
96	1-Apr-10	8	12	$50.46	Yes	$42.86	-$7.60
97	3-Apr-10	4	10	$25.64	Yes	$42.07	$16.43
98	3-Apr-10	4	11	$25.61	Yes	$42.07	$16.46
99	3-Apr-10	4	12	$27.73	Yes	$42.07	$14.34
100	3-Apr-10	5	1	$26.71	Yes	$42.07	$15.36
101	3-Apr-10	5	2	$25.59	Yes	$42.07	$16.48
102	3-Apr-10	5	3	$25.56	Yes	$42.07	$16.51
103	3-Apr-10	5	4	$25.89	Yes	$42.07	$16.18
104	3-Apr-10	5	5	$25.89	Yes	$42.07	$16.18
105	3-Apr-10	5	6	$25.89	Yes	$42.07	$16.18
106	3-Apr-10	5	7	$25.50	Yes	$42.07	$16.57
107	3-Apr-10	5	8	$25.50	Yes	$42.07	$16.57
108	3-Apr-10	5	9	$25.50	Yes	$42.07	$16.57
109	3-Apr-10	5	10	$25.55	Yes	$42.07	$16.52
110	3-Apr-10	5	11	$26.15	Yes	$42.07	$15.92
111	3-Apr-10	5	12	$29.49	Yes	$42.07	$12.58
112	3-Apr-10	6	1	$23.84	Yes	$42.07	$18.23

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
113	3-Apr-10	6	2	$25.40	Yes	$42.07	$16.67
114	3-Apr-10	6	3	$25.47	Yes	$42.07	$16.60
115	3-Apr-10	6	4	$25.89	Yes	$42.07	$16.18
116	3-Apr-10	6	5	$25.89	Yes	$42.07	$16.18
117	3-Apr-10	6	6	$25.86	Yes	$42.07	$16.21
118	3-Apr-10	6	7	$26.67	Yes	$42.07	$15.40
119	3-Apr-10	6	8	$27.71	Yes	$42.07	$14.36
120	3-Apr-10	6	9	$27.71	Yes	$42.07	$14.36
121	3-Apr-10	6	10	$30.22	Yes	$42.07	$11.85
122	3-Apr-10	6	11	$31.97	Yes	$42.07	$10.10
123	3-Apr-10	6	12	$33.57	Yes	$42.07	$8.50
124	3-Apr-10	7	1	$0.67	Yes	$42.07	$41.40
125	3-Apr-10	7	2	$25.12	Yes	$42.07	$16.95
126	3-Apr-10	7	3	$26.94	Yes	$42.07	$15.13
127	3-Apr-10	7	4	$25.54	Yes	$42.07	$16.53
128	3-Apr-10	7	5	$27.00	Yes	$42.07	$15.07
129	3-Apr-10	7	6	$27.00	Yes	$42.07	$15.07
130	3-Apr-10	7	7	$26.98	Yes	$42.07	$15.09
131	3-Apr-10	7	8	$27.68	Yes	$42.07	$14.39
132	3-Apr-10	7	9	$27.68	Yes	$42.07	$14.39
133	3-Apr-10	7	10	$27.74	Yes	$42.07	$14.33
134	3-Apr-10	7	11	$27.74	Yes	$42.07	$14.33
135	3-Apr-10	7	12	$27.88	Yes	$42.07	$14.19
136	3-Apr-10	8	1	$25.29	Yes	$42.07	$16.78
137	3-Apr-10	8	2	$20.05	Yes	$42.07	$22.02
138	3-Apr-10	8	3	$25.08	Yes	$42.07	$16.99
139	3-Apr-10	8	4	$25.34	Yes	$42.07	$16.73
140	3-Apr-10	8	5	$25.56	Yes	$42.07	$16.51
141	3-Apr-10	8	6	$25.63	Yes	$42.07	$16.44
142	3-Apr-10	8	7	$25.33	Yes	$42.07	$16.74
143	3-Apr-10	8	8	$27.12	Yes	$42.07	$14.95
144	3-Apr-10	8	9	$27.76	Yes	$42.07	$14.31
145	3-Apr-10	8	10	$31.87	Yes	$42.07	$10.20
146	3-Apr-10	8	11	$34.43	Yes	$42.07	$7.64
147	3-Apr-10	8	12	$34.53	Yes	$42.07	$7.54
148	3-Apr-10	9	1	$30.94	Yes	$41.97	$11.03
149	3-Apr-10	9	2	$27.89	Yes	$41.97	$14.08
150	3-Apr-10	9	3	$27.89	Yes	$41.97	$14.08
151	3-Apr-10	9	4	$34.55	Yes	$41.97	$7.42
152	3-Apr-10	9	5	$34.55	Yes	$41.97	$7.42
153	3-Apr-10	9	6	$36.51	Yes	$41.97	$5.46
154	3-Apr-10	9	7	$35.57	Yes	$41.97	$6.40
155	3-Apr-10	9	8	$37.07	Yes	$41.97	$4.90
156	3-Apr-10	9	9	$41.08	Yes	$41.97	$0.89
157	3-Apr-10	9	10	$41.13	Yes	$41.97	$0.84

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
158	3-Apr-10	9	11	$41.76	Yes	$41.97	$0.21
159	3-Apr-10	9	12	$41.13	Yes	$41.97	$0.84
160	3-Apr-10	10	1	$33.84	Yes	$42.07	$8.23
161	3-Apr-10	10	2	$33.84	Yes	$42.07	$8.23
162	3-Apr-10	10	3	$33.86	Yes	$42.07	$8.21
163	3-Apr-10	10	4	$33.86	Yes	$42.07	$8.21
164	3-Apr-10	10	5	$33.90	Yes	$42.07	$8.17
165	3-Apr-10	10	6	$34.06	Yes	$42.07	$8.01
166	3-Apr-10	10	7	$34.55	Yes	$42.07	$7.52
167	3-Apr-10	10	8	$35.33	Yes	$42.07	$6.74
168	3-Apr-10	10	9	$37.12	Yes	$42.07	$4.95
169	3-Apr-10	10	10	$41.17	Yes	$42.07	$0.90
170	3-Apr-10	10	11	$41.19	Yes	$42.07	$0.88
171	3-Apr-10	10	12	$45.03	Yes	$42.07	-$2.96
172	3-Apr-10	11	1	$45.54	Yes	$42.07	-$3.47
173	3-Apr-10	11	2	$45.54	Yes	$42.07	-$3.47
174	3-Apr-10	11	3	$47.22	Yes	$42.07	-$5.15
175	3-Apr-10	11	4	$46.94	Yes	$42.07	-$4.87
176	3-Apr-10	11	5	$46.94	Yes	$42.07	-$4.87
177	3-Apr-10	11	6	$42.23	Yes	$42.07	-$0.16
178	3-Apr-10	11	7	$45.65	Yes	$42.07	-$3.58
179	3-Apr-10	11	8	$45.65	Yes	$42.07	-$3.58
180	3-Apr-10	11	9	$45.65	Yes	$42.07	-$3.58
181	3-Apr-10	11	10	$41.99	Yes	$42.07	$0.08
182	3-Apr-10	11	11	$36.27	Yes	$42.07	$5.80
183	3-Apr-10	11	12	$41.99	Yes	$42.07	$0.08
184	3-Apr-10	12	1	$41.86	Yes	$42.07	$0.21
185	3-Apr-10	12	2	$41.86	Yes	$42.07	$0.21
186	3-Apr-10	12	3	$41.86	Yes	$42.07	$0.21
187	3-Apr-10	12	4	$37.10	Yes	$42.07	$4.97
188	3-Apr-10	12	5	$37.10	Yes	$42.07	$4.97
189	3-Apr-10	12	6	$37.10	Yes	$42.07	$4.97
190	3-Apr-10	12	7	$35.88	Yes	$42.07	$6.19
191	3-Apr-10	12	8	$35.88	Yes	$42.07	$6.19
192	3-Apr-10	12	9	$35.88	Yes	$42.07	$6.19
193	3-Apr-10	12	10	$35.95	Yes	$42.07	$6.12
194	3-Apr-10	12	11	$41.74	Yes	$42.07	$0.33
195	3-Apr-10	12	12	$45.47	Yes	$42.07	-$3.40
196	3-Apr-10	15	7	$33.78	Yes	$42.07	$8.29
197	3-Apr-10	15	8	$33.78	Yes	$42.07	$8.29
198	3-Apr-10	15	9	$33.03	Yes	$42.07	$9.04
199	3-Apr-10	15	10	$27.97	Yes	$42.07	$14.10
200	3-Apr-10	15	11	$27.97	Yes	$42.07	$14.10
201	3-Apr-10	15	12	$27.97	Yes	$42.07	$14.10
202	4-Apr-10	18	1	$33.53	Yes	$43.34	$9.81

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
203	4-Apr-10	18	2	$30.64	Yes	$43.34	$12.70
204	4-Apr-10	18	3	$30.64	Yes	$43.34	$12.70
205	4-Apr-10	18	4	$28.68	Yes	$43.34	$14.66
206	4-Apr-10	18	5	$33.22	Yes	$43.34	$10.12
207	4-Apr-10	18	6	$34.69	Yes	$43.34	$8.65
208	4-Apr-10	18	7	$33.82	Yes	$43.34	$9.52
209	4-Apr-10	18	8	$34.76	Yes	$43.34	$8.58
210	4-Apr-10	18	9	$34.76	Yes	$43.34	$8.58
211	4-Apr-10	18	10	$35.20	Yes	$43.34	$8.14
212	4-Apr-10	18	11	$34.73	Yes	$43.34	$8.61
213	4-Apr-10	18	12	$34.37	Yes	$43.34	$8.97
214	4-Apr-10	19	1	$29.02	Yes	$43.34	$14.32
215	4-Apr-10	19	2	$31.91	Yes	$43.34	$11.43
216	4-Apr-10	19	3	$32.36	Yes	$43.34	$10.98
217	4-Apr-10	19	4	$32.14	Yes	$43.34	$11.20
218	4-Apr-10	19	5	$32.14	Yes	$43.34	$11.20
219	4-Apr-10	19	6	$32.14	Yes	$43.34	$11.20
220	4-Apr-10	19	7	$34.56	Yes	$43.34	$8.78
221	4-Apr-10	19	8	$34.56	Yes	$43.34	$8.78
222	4-Apr-10	19	9	$35.35	Yes	$43.34	$7.99
223	4-Apr-10	19	10	$39.89	Yes	$43.34	$3.45
224	4-Apr-10	19	11	$43.34	Yes	$43.34	$0.00
225	4-Apr-10	19	12	$51.80	Yes	$43.34	-$8.46
226	4-Apr-10	20	1	$26.37	Yes	$43.34	$16.97
227	4-Apr-10	20	2	$29.03	Yes	$43.34	$14.31
228	4-Apr-10	20	3	$35.12	Yes	$43.34	$8.22
229	4-Apr-10	20	4	$34.91	Yes	$43.34	$8.43
230	4-Apr-10	20	5	$37.89	Yes	$43.34	$5.45
231	4-Apr-10	20	6	$49.28	Yes	$43.34	-$5.94
232	4-Apr-10	20	7	$78.71	Yes	$43.34	-$35.37
233	4-Apr-10	20	8	$57.15	Yes	$43.34	-$13.81
234	4-Apr-10	20	9	$78.71	Yes	$43.34	-$35.37
235	4-Apr-10	20	10	$46.03	Yes	$43.34	-$2.69
236	4-Apr-10	20	11	$55.53	Yes	$43.34	-$12.19
237	4-Apr-10	20	12	$55.53	Yes	$43.34	-$12.19
238	4-Apr-10	21	1	$60.74	Yes	$43.34	-$17.40
239	4-Apr-10	21	2	$56.27	Yes	$43.34	-$12.93
240	4-Apr-10	21	3	$56.27	Yes	$43.34	-$12.93
241	4-Apr-10	21	4	$54.28	Yes	$43.34	-$10.94
242	4-Apr-10	21	5	$54.28	Yes	$43.34	-$10.94
243	4-Apr-10	21	6	$54.28	Yes	$43.34	-$10.94
244	4-Apr-10	21	7	$75.48	Yes	$43.34	-$32.14
245	4-Apr-10	21	8	$56.23	Yes	$43.34	-$12.89
246	4-Apr-10	21	9	$56.23	Yes	$43.34	-$12.89
247	4-Apr-10	21	10	$46.25	Yes	$43.34	-$2.91

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
248	4-Apr-10	21	11	$46.25	Yes	$43.34	-$2.91
249	4-Apr-10	21	12	$46.25	Yes	$43.34	-$2.91
250	4-Apr-10	22	1	$56.49	Yes	$43.34	-$13.15
251	4-Apr-10	22	2	$56.49	Yes	$43.34	-$13.15
252	4-Apr-10	22	3	$67.76	Yes	$43.34	-$24.42
253	4-Apr-10	22	4	$46.80	Yes	$43.34	-$3.46
254	4-Apr-10	22	5	$43.85	Yes	$43.34	-$0.51
255	4-Apr-10	22	6	$43.26	Yes	$43.34	$0.08
256	4-Apr-10	22	7	$42.91	Yes	$43.34	$0.43
257	4-Apr-10	22	8	$42.26	Yes	$43.34	$1.08
258	4-Apr-10	22	9	$55.73	Yes	$43.34	-$12.39
259	4-Apr-10	22	10	$42.60	Yes	$43.34	$0.74
260	4-Apr-10	22	11	$37.54	Yes	$43.34	$5.80
261	4-Apr-10	22	12	$34.80	Yes	$43.34	$8.54
262	4-Apr-10	23	1	$46.74	Yes	$43.34	-$3.40
263	4-Apr-10	23	2	$40.82	Yes	$43.34	$2.52
264	4-Apr-10	23	3	$39.73	Yes	$43.34	$3.61
265	4-Apr-10	23	4	$35.01	Yes	$43.34	$8.33
266	4-Apr-10	23	5	$34.23	Yes	$43.34	$9.11
267	4-Apr-10	23	6	$34.23	Yes	$43.34	$9.11
268	4-Apr-10	23	7	$34.62	Yes	$43.34	$8.72
269	4-Apr-10	23	8	$32.87	Yes	$43.34	$10.47
270	4-Apr-10	23	9	$28.89	Yes	$43.34	$14.45
271	4-Apr-10	23	10	$28.90	Yes	$43.34	$14.44
272	4-Apr-10	23	11	$28.90	Yes	$43.34	$14.44
273	4-Apr-10	23	12	$25.71	Yes	$43.34	$17.63
274	4-Apr-10	24	1	$39.68	Yes	$43.34	$3.66
275	4-Apr-10	24	2	$30.16	Yes	$43.34	$13.18
276	4-Apr-10	24	3	$28.36	Yes	$43.34	$14.98
277	4-Apr-10	24	4	$26.93	Yes	$43.34	$16.41
278	4-Apr-10	24	5	$27.08	Yes	$43.34	$16.26
279	4-Apr-10	24	6	$28.27	Yes	$43.34	$15.07
280	4-Apr-10	24	7	$28.90	Yes	$43.34	$14.44
281	4-Apr-10	24	8	$28.44	Yes	$43.34	$14.90
282	4-Apr-10	24	9	$27.07	Yes	$43.34	$16.27
283	4-Apr-10	24	10	$27.91	Yes	$43.34	$15.43
284	4-Apr-10	24	11	$18.13	Yes	$43.34	$25.21
285	4-Apr-10	24	12	-$30.12	Yes	$43.34	$73.46
286	19-Apr-10	9	6	$32.69	Yes	$45.66	$12.97
287	19-Apr-10	9	7	$32.69	Yes	$45.66	$12.97
288	19-Apr-10	9	8	$54.67	Yes	$45.66	-$9.01
289	19-Apr-10	14	9	$35.83	Yes	$41.00	$5.17
290	19-Apr-10	14	10	$36.49	Yes	$41.00	$4.51
291	19-Apr-10	14	11	$37.64	Yes	$41.00	$3.36
292	19-Apr-10	14	12	$43.57	Yes	$41.00	-$2.57

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
293	19-Apr-10	15	1	$46.78	Yes	$41.00	-$5.78
294	19-Apr-10	15	2	$46.85	Yes	$41.00	-$5.85
295	19-Apr-10	15	3	$46.85	Yes	$41.00	-$5.85
296	19-Apr-10	15	4	$46.90	Yes	$41.00	-$5.90
297	19-Apr-10	15	5	$44.17	Yes	$41.00	-$3.17
298	19-Apr-10	15	6	$35.55	Yes	$41.00	$5.45
299	19-Apr-10	15	7	$36.18	Yes	$41.00	$4.82
300	19-Apr-10	15	8	$36.18	Yes	$41.00	$4.82
301	19-Apr-10	15	9	$41.06	Yes	$41.00	-$0.06
302	19-Apr-10	15	10	$44.23	Yes	$41.00	-$3.23
303	19-Apr-10	15	11	$41.28	Yes	$41.00	-$0.28
304	19-Apr-10	15	12	$41.39	Yes	$41.00	-$0.39
305	19-Apr-10	16	1	$45.50	Yes	$41.00	-$4.50
306	19-Apr-10	16	2	$45.33	Yes	$41.00	-$4.33
307	19-Apr-10	16	3	$45.97	Yes	$41.00	-$4.97
308	19-Apr-10	16	4	$42.33	Yes	$41.00	-$1.33
309	19-Apr-10	16	5	$42.80	Yes	$41.00	-$1.80
310	19-Apr-10	16	6	$42.33	Yes	$41.00	-$1.33
311	19-Apr-10	16	7	$43.84	Yes	$41.00	-$2.84
312	19-Apr-10	16	8	$43.84	Yes	$41.00	-$2.84
313	19-Apr-10	16	9	$43.69	Yes	$41.00	-$2.69
314	19-Apr-10	16	10	$43.63	Yes	$41.00	-$2.63
315	19-Apr-10	16	11	$42.09	Yes	$41.00	-$1.09
316	19-Apr-10	16	12	$40.56	Yes	$41.00	$0.44
317	19-Apr-10	17	1	$41.78	Yes	$41.00	-$0.78
318	19-Apr-10	17	2	$41.52	Yes	$41.00	-$0.52
319	19-Apr-10	17	3	$41.52	Yes	$41.00	-$0.52
320	19-Apr-10	17	4	$40.25	Yes	$41.00	$0.75
321	19-Apr-10	17	5	$40.99	Yes	$41.00	$0.01
322	19-Apr-10	17	6	$39.89	Yes	$41.00	$1.11
323	19-Apr-10	17	7	$40.96	Yes	$41.00	$0.04
324	19-Apr-10	17	8	$37.04	Yes	$41.00	$3.96
325	19-Apr-10	17	9	$37.04	Yes	$41.00	$3.96
326	19-Apr-10	17	10	$36.39	Yes	$41.00	$4.61
327	19-Apr-10	17	11	$36.39	Yes	$41.00	$4.61
328	19-Apr-10	17	12	$36.39	Yes	$41.00	$4.61
329	19-Apr-10	18	1	$34.91	Yes	$41.00	$6.09
330	19-Apr-10	18	2	$33.28	Yes	$41.00	$7.72
331	19-Apr-10	18	3	$33.28	Yes	$41.00	$7.72
332	19-Apr-10	18	4	$31.32	Yes	$41.00	$9.68
333	19-Apr-10	18	5	$33.42	Yes	$41.00	$7.58
334	19-Apr-10	18	6	$33.74	Yes	$41.00	$7.26
335	19-Apr-10	18	7	$35.34	Yes	$41.00	$5.66
336	19-Apr-10	18	8	$34.97	Yes	$41.00	$6.03
337	19-Apr-10	18	9	$33.93	Yes	$41.00	$7.07

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
338	19-Apr-10	18	10	$33.83	Yes	$41.00	$7.17
339	19-Apr-10	18	11	$33.22	Yes	$41.00	$7.78
340	19-Apr-10	18	12	$32.77	Yes	$41.00	$8.23
341	19-Apr-10	19	1	$32.38	Yes	$41.00	$8.62
342	19-Apr-10	19	2	$31.41	Yes	$41.00	$9.59
343	19-Apr-10	19	3	$32.92	Yes	$41.00	$8.08
344	19-Apr-10	19	4	$33.09	Yes	$41.00	$7.91
345	19-Apr-10	19	5	$32.22	Yes	$41.00	$8.78
346	19-Apr-10	19	6	$32.22	Yes	$41.00	$8.78
347	19-Apr-10	19	7	$31.61	Yes	$41.00	$9.39
348	19-Apr-10	19	8	$32.55	Yes	$41.00	$8.45
349	19-Apr-10	19	9	$32.55	Yes	$41.00	$8.45
350	19-Apr-10	19	10	$32.57	Yes	$41.00	$8.43
351	19-Apr-10	19	11	$33.05	Yes	$41.00	$7.95
352	19-Apr-10	19	12	$33.05	Yes	$41.00	$7.95
353	19-Apr-10	20	1	$28.27	Yes	$41.00	$12.73
354	19-Apr-10	20	2	$27.31	Yes	$41.00	$13.69
355	19-Apr-10	20	3	$29.31	Yes	$41.00	$11.69
356	19-Apr-10	20	4	$29.48	Yes	$41.00	$11.52
357	19-Apr-10	20	5	$29.76	Yes	$41.00	$11.24
358	19-Apr-10	20	6	$30.78	Yes	$41.00	$10.22
359	19-Apr-10	20	7	$34.68	Yes	$41.00	$6.32
360	19-Apr-10	20	8	$45.87	Yes	$41.00	-$4.87
361	19-Apr-10	20	9	$46.81	Yes	$41.00	-$5.81
362	19-Apr-10	20	10	$46.83	Yes	$41.00	-$5.83
363	19-Apr-10	20	11	$46.97	Yes	$41.00	-$5.97
364	19-Apr-10	20	12	$48.01	Yes	$41.00	-$7.01
365	19-Apr-10	21	1	$46.78	Yes	$41.00	-$5.78
366	19-Apr-10	21	2	$46.24	Yes	$41.00	-$5.24
367	19-Apr-10	21	3	$46.13	Yes	$41.00	-$5.13
368	19-Apr-10	21	4	$47.55	Yes	$41.00	-$6.55
369	19-Apr-10	21	5	$47.19	Yes	$41.00	-$6.19
370	19-Apr-10	21	6	$47.85	Yes	$41.00	-$6.85
371	19-Apr-10	21	7	$44.50	Yes	$41.00	-$3.50
372	19-Apr-10	21	8	$45.83	Yes	$41.00	-$4.83
373	19-Apr-10	21	9	$43.22	Yes	$41.00	-$2.22
374	19-Apr-10	21	10	$34.17	Yes	$41.00	$6.83
375	19-Apr-10	21	11	$34.17	Yes	$41.00	$6.83
376	19-Apr-10	21	12	$33.35	Yes	$41.00	$7.65
377	21-Apr-10	13	10	$39.62	Yes	$41.72	$2.10
378	21-Apr-10	13	11	$40.63	Yes	$41.72	$1.09
379	21-Apr-10	13	12	$41.91	Yes	$41.72	-$0.19
380	21-Apr-10	14	1	$31.00	Yes	$41.72	$10.72
381	21-Apr-10	14	2	$33.37	Yes	$41.72	$8.35
382	21-Apr-10	14	3	$35.96	Yes	$41.72	$5.76

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
383	21-Apr-10	14	4	$34.10	Yes	$41.72	$7.62
384	21-Apr-10	14	5	$34.35	Yes	$41.72	$7.37
385	21-Apr-10	14	6	$34.35	Yes	$41.72	$7.37
386	21-Apr-10	14	7	$35.82	Yes	$41.72	$5.90
387	21-Apr-10	14	8	$35.82	Yes	$41.72	$5.90
388	21-Apr-10	14	9	$34.82	Yes	$41.72	$6.90
389	21-Apr-10	14	10	$35.30	Yes	$41.72	$6.42
390	21-Apr-10	14	11	$33.21	Yes	$41.72	$8.51
391	21-Apr-10	14	12	$33.39	Yes	$41.72	$8.33
392	21-Apr-10	15	1	$42.52	Yes	$41.72	-$0.80
393	21-Apr-10	15	2	$41.67	Yes	$41.72	$0.05
394	21-Apr-10	15	3	$40.42	Yes	$41.72	$1.30
395	21-Apr-10	15	4	$34.54	Yes	$41.72	$7.18
396	21-Apr-10	15	5	$35.86	Yes	$41.72	$5.86
397	21-Apr-10	15	6	$36.48	Yes	$41.72	$5.24
398	21-Apr-10	15	7	$37.10	Yes	$41.72	$4.62
399	21-Apr-10	15	8	$36.08	Yes	$41.72	$5.64
400	21-Apr-10	15	9	$35.97	Yes	$41.72	$5.75
401	21-Apr-10	15	10	$35.79	Yes	$41.72	$5.93
402	21-Apr-10	15	11	$33.21	Yes	$41.72	$8.51
403	21-Apr-10	15	12	$33.16	Yes	$41.72	$8.56
404	21-Apr-10	16	1	$35.27	Yes	$41.72	$6.45
405	21-Apr-10	16	2	$33.94	Yes	$41.72	$7.78
406	21-Apr-10	16	3	$33.94	Yes	$41.72	$7.78
407	21-Apr-10	16	4	$31.06	Yes	$41.72	$10.66
408	21-Apr-10	16	5	$31.06	Yes	$41.72	$10.66
409	21-Apr-10	16	6	$31.06	Yes	$41.72	$10.66
410	21-Apr-10	16	7	$33.93	Yes	$41.72	$7.79
411	21-Apr-10	16	8	$33.31	Yes	$41.72	$8.41
412	21-Apr-10	16	9	$33.31	Yes	$41.72	$8.41
413	21-Apr-10	16	10	$33.30	Yes	$41.72	$8.42
414	21-Apr-10	16	11	$33.22	Yes	$41.72	$8.50
415	21-Apr-10	16	12	$33.22	Yes	$41.72	$8.50
416	21-Apr-10	17	1	$32.12	Yes	$41.72	$9.60
417	21-Apr-10	17	2	$32.57	Yes	$41.72	$9.15
418	21-Apr-10	17	3	$32.57	Yes	$41.72	$9.15
419	21-Apr-10	17	4	$32.27	Yes	$41.72	$9.45
420	21-Apr-10	17	5	$31.04	Yes	$41.72	$10.68
421	21-Apr-10	17	6	$30.88	Yes	$41.72	$10.84
422	21-Apr-10	17	7	$32.29	Yes	$41.72	$9.43
423	21-Apr-10	17	8	$32.14	Yes	$41.72	$9.58
424	21-Apr-10	17	9	$31.25	Yes	$41.72	$10.47
425	21-Apr-10	17	10	$31.03	Yes	$41.72	$10.69
426	21-Apr-10	17	11	$31.03	Yes	$41.72	$10.69
427	21-Apr-10	17	12	$31.03	Yes	$41.72	$10.69

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
428	21-Apr-10	18	1	$31.20	Yes	$41.72	$10.52
429	21-Apr-10	18	2	$27.44	Yes	$41.72	$14.28
430	21-Apr-10	18	3	$29.19	Yes	$41.72	$12.53
431	21-Apr-10	18	4	$28.13	Yes	$41.72	$13.59
432	21-Apr-10	18	5	$28.13	Yes	$41.72	$13.59
433	21-Apr-10	18	6	$29.08	Yes	$41.72	$12.64
434	21-Apr-10	18	7	$31.24	Yes	$41.72	$10.48
435	21-Apr-10	18	8	$29.90	Yes	$41.72	$11.82
436	21-Apr-10	18	9	$31.24	Yes	$41.72	$10.48
437	21-Apr-10	18	10	$31.12	Yes	$41.72	$10.60
438	21-Apr-10	18	11	$29.15	Yes	$41.72	$12.57
439	21-Apr-10	18	12	$28.31	Yes	$41.72	$13.41
440	21-Apr-10	19	1	$27.31	Yes	$41.72	$14.41
441	21-Apr-10	19	2	$27.31	Yes	$41.72	$14.41
442	21-Apr-10	19	3	$27.31	Yes	$41.72	$14.41
443	21-Apr-10	19	4	$27.05	Yes	$41.72	$14.67
444	21-Apr-10	19	5	$27.05	Yes	$41.72	$14.67
445	21-Apr-10	19	6	$28.40	Yes	$41.72	$13.32
446	21-Apr-10	19	7	$29.19	Yes	$41.72	$12.53
447	21-Apr-10	19	8	$29.19	Yes	$41.72	$12.53
448	21-Apr-10	19	9	$29.19	Yes	$41.72	$12.53
449	21-Apr-10	19	10	$29.22	Yes	$41.72	$12.50
450	21-Apr-10	19	11	$27.70	Yes	$41.72	$14.02
451	21-Apr-10	19	12	$29.22	Yes	$41.72	$12.50
452	21-Apr-10	20	1	$22.46	Yes	$41.72	$19.26
453	21-Apr-10	20	2	$23.90	Yes	$41.72	$17.82
454	21-Apr-10	20	3	$26.10	Yes	$41.72	$15.62
455	21-Apr-10	20	4	$26.40	Yes	$41.72	$15.32
456	21-Apr-10	20	5	$26.93	Yes	$41.72	$14.79
457	21-Apr-10	20	6	$26.62	Yes	$41.72	$15.10
458	21-Apr-10	20	7	$29.31	Yes	$41.72	$12.41
459	21-Apr-10	20	8	$29.31	Yes	$41.72	$12.41
460	21-Apr-10	20	9	$32.62	Yes	$41.72	$9.10
461	21-Apr-10	20	10	$32.47	Yes	$41.72	$9.25
462	21-Apr-10	20	11	$33.89	Yes	$41.72	$7.83
463	21-Apr-10	20	12	$33.92	Yes	$41.72	$7.80
464	21-Apr-10	21	1	$33.87	Yes	$41.72	$7.85
465	21-Apr-10	21	2	$33.87	Yes	$41.72	$7.85
466	21-Apr-10	21	3	$33.76	Yes	$41.72	$7.96
467	21-Apr-10	21	4	$31.04	Yes	$41.72	$10.68
468	21-Apr-10	21	5	$33.89	Yes	$41.72	$7.83
469	21-Apr-10	21	6	$33.89	Yes	$41.72	$7.83
470	21-Apr-10	21	7	$35.93	Yes	$41.72	$5.79
471	21-Apr-10	21	8	$29.39	Yes	$41.72	$12.33
472	21-Apr-10	21	9	$31.76	Yes	$41.72	$9.96

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
473	21-Apr-10	21	10	$27.87	Yes	$41.72	$13.85
474	21-Apr-10	21	11	$27.87	Yes	$41.72	$13.85
475	21-Apr-10	21	12	$27.03	Yes	$41.72	$14.69
476	21-Apr-10	22	1	$43.92	Yes	$41.72	-$2.20
477	21-Apr-10	22	2	$40.85	Yes	$41.72	$0.87
478	21-Apr-10	22	3	$33.69	Yes	$41.72	$8.03
479	21-Apr-10	22	4	$29.17	Yes	$41.72	$12.55
480	21-Apr-10	22	5	$33.86	Yes	$41.72	$7.86
481	21-Apr-10	22	6	$27.71	Yes	$41.72	$14.01
482	21-Apr-10	22	7	$27.75	Yes	$41.72	$13.97
483	21-Apr-10	22	8	$26.88	Yes	$41.72	$14.84
484	21-Apr-10	22	9	$27.15	Yes	$41.72	$14.57
485	21-Apr-10	22	10	$25.89	Yes	$41.72	$15.83
486	21-Apr-10	22	11	$24.57	Yes	$41.72	$17.15
487	21-Apr-10	22	12	$32.64	Yes	$41.72	$9.08
488	21-Apr-10	23	1	$45.54	Yes	$41.72	-$3.82
489	21-Apr-10	23	1	$45.54	Yes	$41.72	-$3.82
490	21-Apr-10	23	2	$47.50	Yes	$41.72	-$5.78
491	21-Apr-10	23	2	$47.50	Yes	$41.72	-$5.78
492	21-Apr-10	23	3	$41.95	Yes	$41.72	-$0.23
493	21-Apr-10	23	3	$41.95	Yes	$41.72	-$0.23
494	21-Apr-10	23	4	$33.79	Yes	$41.72	$7.93
495	21-Apr-10	23	4	$33.79	Yes	$41.72	$7.93
496	21-Apr-10	23	5	$33.79	Yes	$41.72	$7.93
497	21-Apr-10	23	5	$33.79	Yes	$41.72	$7.93
498	21-Apr-10	23	6	$33.91	Yes	$41.72	$7.81
499	21-Apr-10	23	6	$33.91	Yes	$41.72	$7.81
500	21-Apr-10	23	7	$36.14	Yes	$41.72	$5.58
501	21-Apr-10	23	7	$36.14	Yes	$41.72	$5.58
502	21-Apr-10	23	8	$33.78	Yes	$42.50	$8.72
503	21-Apr-10	23	8	$33.78	Yes	$41.72	$7.94
504	21-Apr-10	23	9	$26.83	Yes	$41.72	$14.89
505	21-Apr-10	23	9	$26.83	Yes	$42.50	$15.67
506	21-Apr-10	23	10	$26.48	Yes	$41.72	$15.24
507	21-Apr-10	23	10	$26.48	Yes	$42.50	$16.02
508	21-Apr-10	23	11	$24.98	Yes	$41.72	$16.74
509	21-Apr-10	23	11	$24.98	Yes	$42.50	$17.52
510	21-Apr-10	23	12	$19.58	Yes	$41.72	$22.14
511	21-Apr-10	23	12	$19.58	Yes	$42.50	$22.92
512	21-Apr-10	24	1	$30.31	Yes	$41.72	$11.41
513	21-Apr-10	24	1	$30.31	Yes	$42.50	$12.19
514	21-Apr-10	24	2	$29.41	Yes	$42.50	$13.09
515	21-Apr-10	24	2	$29.41	Yes	$41.72	$12.31
516	21-Apr-10	24	3	$26.61	Yes	$42.50	$15.89
517	21-Apr-10	24	3	$26.61	Yes	$41.72	$15.11

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
518	21-Apr-10	24	4	$26.70	Yes	$42.50	$15.80
519	21-Apr-10	24	4	$26.70	Yes	$41.72	$15.02
520	21-Apr-10	24	5	$26.63	Yes	$41.72	$15.09
521	21-Apr-10	24	5	$26.63	Yes	$42.50	$15.87
522	21-Apr-10	24	6	$26.72	Yes	$42.50	$15.78
523	21-Apr-10	24	6	$26.72	Yes	$41.72	$15.00
524	21-Apr-10	24	7	$26.70	Yes	$42.50	$15.80
525	21-Apr-10	24	7	$26.70	Yes	$41.72	$15.02
526	21-Apr-10	24	8	$26.70	Yes	$42.50	$15.80
527	21-Apr-10	24	8	$26.70	Yes	$41.72	$15.02
528	21-Apr-10	24	9	$25.53	Yes	$41.72	$16.19
529	21-Apr-10	24	9	$25.53	Yes	$42.50	$16.97
530	21-Apr-10	24	10	$28.78	Yes	$42.50	$13.72
531	21-Apr-10	24	10	$28.78	Yes	$41.72	$12.94
532	21-Apr-10	24	11	$28.78	Yes	$42.50	$13.72
533	21-Apr-10	24	11	$28.78	Yes	$41.72	$12.94
534	21-Apr-10	24	12	$0.66	Yes	$42.50	$41.84
535	21-Apr-10	24	12	$0.66	Yes	$41.72	$41.06
536	22-Apr-10	2	1	$26.89	Yes	$41.27	$14.38
537	22-Apr-10	2	2	$26.62	Yes	$41.27	$14.65
538	22-Apr-10	2	3	$26.80	Yes	$41.27	$14.47
539	22-Apr-10	2	4	$25.72	Yes	$41.27	$15.55
540	22-Apr-10	2	5	$25.72	Yes	$41.27	$15.55
541	22-Apr-10	2	6	$25.72	Yes	$41.27	$15.55
542	22-Apr-10	2	7	$25.30	Yes	$41.27	$15.97
543	22-Apr-10	2	8	$25.30	Yes	$41.27	$15.97
544	22-Apr-10	2	9	$25.30	Yes	$41.27	$15.97
545	22-Apr-10	2	10	$25.07	Yes	$41.27	$16.20
546	22-Apr-10	2	11	$25.07	Yes	$41.27	$16.20
547	22-Apr-10	2	12	$20.65	Yes	$41.27	$20.62
548	22-Apr-10	3	1	$29.11	Yes	$41.27	$12.16
549	22-Apr-10	3	2	$26.85	Yes	$41.27	$14.42
550	22-Apr-10	3	3	$26.80	Yes	$41.27	$14.47
551	22-Apr-10	3	4	$28.45	Yes	$41.27	$12.82
552	22-Apr-10	3	5	$0.65	Yes	$41.27	$40.62
553	22-Apr-10	3	6	$18.60	Yes	$41.27	$22.67
554	22-Apr-10	3	7	$18.61	Yes	$41.27	$22.66
555	22-Apr-10	3	8	$21.89	Yes	$41.27	$19.38
556	22-Apr-10	3	9	$26.67	Yes	$41.27	$14.60
557	22-Apr-10	3	10	$26.59	Yes	$41.27	$14.68
558	22-Apr-10	3	11	$26.59	Yes	$41.27	$14.68
559	22-Apr-10	3	12	$25.06	Yes	$41.27	$16.21
560	22-Apr-10	6	4	$19.42	Yes	$41.27	$21.85
561	22-Apr-10	6	5	$20.65	Yes	$41.27	$20.62
562	22-Apr-10	6	6	$20.65	Yes	$41.27	$20.62

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
563	22-Apr-10	6	7	$26.34	Yes	$41.27	$14.93
564	22-Apr-10	6	8	$26.49	Yes	$41.27	$14.78
565	22-Apr-10	6	9	$26.34	Yes	$41.27	$14.93
566	22-Apr-10	6	10	$27.96	Yes	$42.52	$14.56
567	22-Apr-10	6	11	$26.76	Yes	$42.52	$15.76
568	22-Apr-10	6	12	$29.24	Yes	$42.52	$13.28
569	22-Apr-10	7	1	$20.67	Yes	$42.52	$21.85
570	22-Apr-10	7	2	$24.61	Yes	$42.52	$17.91
571	22-Apr-10	7	3	$27.09	Yes	$42.52	$15.43
572	22-Apr-10	7	4	$26.45	Yes	$42.52	$16.07
573	22-Apr-10	7	5	$26.98	Yes	$42.52	$15.54
574	22-Apr-10	7	6	$26.98	Yes	$42.52	$15.54
575	22-Apr-10	7	7	$26.96	Yes	$42.52	$15.56
576	22-Apr-10	7	8	$27.66	Yes	$42.52	$14.86
577	22-Apr-10	7	9	$27.50	Yes	$42.52	$15.02
578	22-Apr-10	7	10	$27.93	Yes	$42.52	$14.59
579	22-Apr-10	7	11	$31.80	Yes	$42.52	$10.72
580	22-Apr-10	7	12	$32.59	Yes	$42.52	$9.93
581	22-Apr-10	8	1	$27.29	Yes	$42.52	$15.23
582	22-Apr-10	8	2	$27.47	Yes	$42.52	$15.05
583	22-Apr-10	8	3	$28.25	Yes	$42.52	$14.27
584	22-Apr-10	8	4	$31.32	Yes	$42.52	$11.20
585	22-Apr-10	8	5	$36.45	Yes	$42.52	$6.07
586	22-Apr-10	8	6	$36.32	Yes	$42.52	$6.20
587	22-Apr-10	8	7	$33.79	Yes	$42.52	$8.73
588	22-Apr-10	8	8	$34.63	Yes	$42.52	$7.89
589	22-Apr-10	8	9	$31.20	Yes	$42.52	$11.32
590	22-Apr-10	8	10	$33.79	Yes	$42.52	$8.73
591	22-Apr-10	8	11	$31.81	Yes	$42.52	$10.71
592	22-Apr-10	8	12	$35.61	Yes	$42.52	$6.91
593	22-Apr-10	9	1	$34.82	Yes	$42.52	$7.70
594	22-Apr-10	9	2	$31.45	Yes	$42.52	$11.07
595	22-Apr-10	9	3	$32.26	Yes	$42.52	$10.26
596	22-Apr-10	9	4	$35.56	Yes	$42.52	$6.96
597	22-Apr-10	9	5	$80.15	Yes	$42.52	-$37.63
598	22-Apr-10	9	6	$55.51	Yes	$42.52	-$12.99
599	22-Apr-10	9	7	$37.19	Yes	$42.52	$5.33
600	22-Apr-10	9	8	$34.02	Yes	$42.52	$8.50
601	22-Apr-10	9	9	$34.02	Yes	$42.52	$8.50
602	22-Apr-10	9	10	$36.50	Yes	$42.52	$6.02
603	22-Apr-10	9	11	$36.75	Yes	$42.52	$5.77
604	22-Apr-10	9	12	$36.50	Yes	$42.52	$6.02
605	22-Apr-10	10	1	$30.58	Yes	$42.52	$11.94
606	22-Apr-10	10	2	$30.04	Yes	$42.52	$12.48
607	22-Apr-10	10	3	$28.46	Yes	$42.52	$14.06

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
608	22-Apr-10	10	4	$28.10	Yes	$43.94	$15.84
609	22-Apr-10	10	5	$29.97	Yes	$43.94	$13.97
610	22-Apr-10	10	6	$27.88	Yes	$43.94	$16.06
611	22-Apr-10	10	7	$28.37	Yes	$43.94	$15.57
612	22-Apr-10	10	8	$28.68	Yes	$43.94	$15.26
613	22-Apr-10	10	9	$28.68	Yes	$43.94	$15.26
614	22-Apr-10	10	10	$29.03	Yes	$43.94	$14.91
615	22-Apr-10	10	11	$29.03	Yes	$43.94	$14.91
616	22-Apr-10	10	12	$28.58	Yes	$43.94	$15.36
617	22-Apr-10	11	1	$30.05	Yes	$43.94	$13.89
618	22-Apr-10	11	2	$29.89	Yes	$43.94	$14.05
619	22-Apr-10	11	3	$30.05	Yes	$43.94	$13.89
620	22-Apr-10	11	4	$25.72	Yes	$43.94	$18.22
621	22-Apr-10	11	5	$27.68	Yes	$43.94	$16.26
622	22-Apr-10	11	6	$29.20	Yes	$43.94	$14.74
623	22-Apr-10	11	7	$27.99	Yes	$43.94	$15.95
624	22-Apr-10	11	8	$27.99	Yes	$43.94	$15.95
625	22-Apr-10	11	9	$28.16	Yes	$43.94	$15.78
626	22-Apr-10	11	10	$28.66	Yes	$43.94	$15.28
627	22-Apr-10	11	11	$28.66	Yes	$43.94	$15.28
628	22-Apr-10	11	12	$30.06	Yes	$43.94	$13.88
629	22-Apr-10	12	1	$30.12	Yes	$43.94	$13.82
630	22-Apr-10	12	2	$31.70	Yes	$43.94	$12.24
631	22-Apr-10	12	3	$30.70	Yes	$43.94	$13.24
632	22-Apr-10	12	4	$28.96	Yes	$43.94	$14.98
633	22-Apr-10	12	5	$29.98	Yes	$43.94	$13.96
634	22-Apr-10	12	6	$28.96	Yes	$43.94	$14.98
635	22-Apr-10	12	7	$30.06	Yes	$43.94	$13.88
636	22-Apr-10	12	8	$30.06	Yes	$43.94	$13.88
637	22-Apr-10	12	9	$30.06	Yes	$43.94	$13.88
638	22-Apr-10	12	10	$30.66	Yes	$43.94	$13.28
639	22-Apr-10	12	11	$30.41	Yes	$43.94	$13.53
640	22-Apr-10	12	12	$28.81	Yes	$43.94	$15.13
641	22-Apr-10	13	1	$30.12	Yes	$43.94	$13.82
642	22-Apr-10	13	2	$30.42	Yes	$43.94	$13.52
643	22-Apr-10	13	3	$30.62	Yes	$43.94	$13.32
644	22-Apr-10	13	4	$28.39	Yes	$43.94	$15.55
645	22-Apr-10	13	5	$28.90	Yes	$43.94	$15.04
646	22-Apr-10	13	6	$28.90	Yes	$43.94	$15.04
647	22-Apr-10	13	7	$30.01	Yes	$43.94	$13.93
648	22-Apr-10	13	8	$30.01	Yes	$43.94	$13.93
649	22-Apr-10	13	9	$30.01	Yes	$43.94	$13.93
650	22-Apr-10	13	10	$30.01	Yes	$43.94	$13.93
651	22-Apr-10	13	11	$30.01	Yes	$43.94	$13.93
652	22-Apr-10	13	12	$30.01	Yes	$43.94	$13.93

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
653	22-Apr-10	14	1	$27.45	Yes	$43.94	$16.49
654	22-Apr-10	14	2	$27.75	Yes	$43.94	$16.19
655	22-Apr-10	14	3	$28.82	Yes	$43.94	$15.12
656	22-Apr-10	14	4	$27.83	Yes	$43.94	$16.11
657	22-Apr-10	14	5	$27.97	Yes	$43.94	$15.97
658	22-Apr-10	14	6	$27.97	Yes	$43.94	$15.97
659	22-Apr-10	14	7	$28.60	Yes	$43.94	$15.34
660	22-Apr-10	14	8	$28.60	Yes	$43.94	$15.34
661	22-Apr-10	14	9	$28.60	Yes	$43.94	$15.34
662	22-Apr-10	14	10	$27.74	Yes	$43.94	$16.20
663	22-Apr-10	14	11	$28.85	Yes	$43.94	$15.09
664	22-Apr-10	14	12	$27.74	Yes	$43.94	$16.20
665	22-Apr-10	15	1	$30.03	Yes	$43.94	$13.91
666	22-Apr-10	15	2	$30.69	Yes	$43.94	$13.25
667	22-Apr-10	15	3	$30.69	Yes	$43.94	$13.25
668	22-Apr-10	15	4	$29.10	Yes	$43.94	$14.84
669	22-Apr-10	15	5	$29.10	Yes	$43.94	$14.84
670	22-Apr-10	15	6	$29.10	Yes	$43.94	$14.84
671	22-Apr-10	15	7	$28.91	Yes	$43.94	$15.03
672	22-Apr-10	15	8	$28.91	Yes	$43.94	$15.03
673	22-Apr-10	15	9	$28.91	Yes	$43.94	$15.03
674	22-Apr-10	15	10	$28.46	Yes	$43.94	$15.48
675	22-Apr-10	15	11	$28.10	Yes	$43.94	$15.84
676	22-Apr-10	15	12	$28.64	Yes	$43.94	$15.30
677	22-Apr-10	16	1	$29.06	Yes	$43.94	$14.88
678	22-Apr-10	16	2	$28.84	Yes	$43.94	$15.10
679	22-Apr-10	16	3	$28.60	Yes	$43.94	$15.34
680	22-Apr-10	16	4	$27.77	Yes	$43.94	$16.17
681	22-Apr-10	16	5	$27.77	Yes	$43.94	$16.17
682	22-Apr-10	16	6	$27.77	Yes	$43.94	$16.17
683	22-Apr-10	16	7	$29.16	Yes	$43.94	$14.78
684	22-Apr-10	16	8	$28.01	Yes	$43.94	$15.93
685	22-Apr-10	16	9	$28.88	Yes	$43.94	$15.06
686	22-Apr-10	16	10	$28.96	Yes	$43.94	$14.98
687	22-Apr-10	16	11	$28.49	Yes	$43.94	$15.45
688	22-Apr-10	16	12	$28.02	Yes	$43.94	$15.92
689	22-Apr-10	17	1	$27.74	Yes	$43.94	$16.20
690	22-Apr-10	17	2	$27.69	Yes	$43.94	$16.25
691	22-Apr-10	17	3	$27.56	Yes	$43.94	$16.38
692	22-Apr-10	17	4	$27.46	Yes	$43.94	$16.48
693	22-Apr-10	17	5	$27.59	Yes	$43.94	$16.35
694	22-Apr-10	17	6	$27.58	Yes	$43.94	$16.36
695	22-Apr-10	17	7	$27.52	Yes	$43.94	$16.42
696	22-Apr-10	17	8	$27.52	Yes	$43.94	$16.42
697	22-Apr-10	17	9	$25.13	Yes	$43.94	$18.81

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
698	22-Apr-10	17	10	$22.79	Yes	$43.94	$21.15
699	22-Apr-10	17	11	$22.79	Yes	$43.94	$21.15
700	22-Apr-10	17	12	$23.68	Yes	$43.94	$20.26
701	22-Apr-10	18	1	$23.61	Yes	$43.94	$20.33
702	22-Apr-10	18	2	$24.67	Yes	$43.94	$19.27
703	22-Apr-10	18	3	$24.39	Yes	$43.94	$19.55
704	22-Apr-10	18	4	$24.03	Yes	$43.94	$19.91
705	22-Apr-10	18	5	$23.92	Yes	$43.94	$20.02
706	22-Apr-10	18	6	$23.92	Yes	$43.94	$20.02
707	22-Apr-10	18	7	$24.76	Yes	$43.94	$19.18
708	22-Apr-10	18	8	$25.33	Yes	$43.94	$18.61
709	22-Apr-10	18	9	$24.76	Yes	$43.94	$19.18
710	22-Apr-10	18	10	$24.81	Yes	$43.94	$19.13
711	22-Apr-10	18	11	$24.81	Yes	$43.94	$19.13
712	22-Apr-10	18	12	$27.12	Yes	$43.94	$16.82
713	22-Apr-10	19	1	$25.41	Yes	$43.94	$18.53
714	22-Apr-10	19	2	$25.02	Yes	$43.94	$18.92
715	22-Apr-10	19	3	$25.02	Yes	$43.94	$18.92
716	22-Apr-10	19	4	$24.24	Yes	$43.94	$19.70
717	22-Apr-10	19	5	$24.29	Yes	$43.94	$19.65
718	22-Apr-10	19	6	$24.29	Yes	$43.94	$19.65
719	22-Apr-10	19	7	$27.24	Yes	$43.94	$16.70
720	22-Apr-10	19	8	$27.45	Yes	$43.94	$16.49
721	22-Apr-10	19	9	$27.52	Yes	$43.94	$16.42
722	22-Apr-10	19	10	$27.68	Yes	$43.94	$16.26
723	22-Apr-10	19	11	$27.72	Yes	$43.94	$16.22
724	22-Apr-10	19	12	$27.75	Yes	$43.94	$16.19
725	22-Apr-10	20	1	$18.77	Yes	$43.94	$25.17
726	22-Apr-10	20	2	$12.74	Yes	$43.94	$31.20
727	22-Apr-10	20	3	$11.06	Yes	$43.94	$32.88
728	22-Apr-10	20	4	$19.28	Yes	$43.94	$24.66
729	22-Apr-10	20	5	$19.26	Yes	$43.94	$24.68
730	22-Apr-10	20	6	$20.63	Yes	$43.94	$23.31
731	22-Apr-10	20	7	$23.52	Yes	$43.94	$20.42
732	22-Apr-10	20	8	$27.71	Yes	$43.94	$16.23
733	22-Apr-10	20	9	$29.16	Yes	$43.94	$14.78
734	22-Apr-10	20	10	$29.93	Yes	$43.94	$14.01
735	22-Apr-10	20	11	$29.75	Yes	$43.94	$14.19
736	22-Apr-10	20	12	$29.75	Yes	$43.94	$14.19
737	22-Apr-10	21	1	$28.05	Yes	$43.94	$15.89
738	22-Apr-10	21	2	$27.76	Yes	$43.94	$16.18
739	22-Apr-10	21	3	$27.76	Yes	$43.94	$16.18
740	22-Apr-10	21	4	$27.84	Yes	$43.94	$16.10
741	22-Apr-10	21	5	$27.79	Yes	$43.94	$16.15
742	22-Apr-10	21	6	$28.06	Yes	$43.94	$15.88

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
743	22-Apr-10	21	7	$27.84	Yes	$43.94	$16.10
744	22-Apr-10	21	8	$27.75	Yes	$43.94	$16.19
745	22-Apr-10	21	9	$27.84	Yes	$43.94	$16.10
746	22-Apr-10	21	10	$27.52	Yes	$43.94	$16.42
747	22-Apr-10	21	11	$27.57	Yes	$43.94	$16.37
748	22-Apr-10	21	12	$25.22	Yes	$43.94	$18.72
749	23-Apr-10	1	1	$73.68	No	$40.97	-$32.71
750	23-Apr-10	1	2	$42.37	No	$40.97	-$1.40
751	23-Apr-10	1	3	$40.33	No	$40.97	$0.64
752	23-Apr-10	1	4	$40.65	No	$40.97	$0.32
753	23-Apr-10	1	5	$39.41	No	$40.97	$1.56
754	23-Apr-10	1	6	$38.96	No	$40.97	$2.01
755	23-Apr-10	1	7	$38.50	No	$40.97	$2.47
756	23-Apr-10	1	8	$36.58	No	$40.97	$4.39
757	23-Apr-10	1	9	$35.76	No	$40.97	$5.21
758	23-Apr-10	1	10	$36.58	No	$40.97	$4.39
759	23-Apr-10	1	11	$32.32	No	$40.97	$8.65
760	23-Apr-10	1	12	$19.51	No	$40.97	$21.46
761	23-Apr-10	2	1	$38.08	No	$40.97	$2.89
762	23-Apr-10	2	2	$29.92	No	$40.97	$11.05
763	23-Apr-10	2	3	$29.09	No	$40.97	$11.88
764	23-Apr-10	2	4	$27.22	No	$40.97	$13.75
765	23-Apr-10	2	5	$27.22	No	$40.97	$13.75
766	23-Apr-10	2	6	$27.22	No	$40.97	$13.75
767	23-Apr-10	2	7	$28.08	No	$40.97	$12.89
768	23-Apr-10	2	8	$26.91	No	$40.97	$14.06
769	23-Apr-10	2	9	$26.91	No	$40.97	$14.06
770	23-Apr-10	2	10	$26.86	No	$40.97	$14.11
771	23-Apr-10	2	11	$26.61	No	$40.97	$14.36
772	23-Apr-10	2	12	$26.28	No	$40.97	$14.69
773	23-Apr-10	3	1	$27.87	No	$40.97	$13.10
774	23-Apr-10	3	2	$26.89	No	$40.97	$14.08
775	23-Apr-10	3	3	$26.61	No	$40.97	$14.36
776	23-Apr-10	3	4	$27.04	No	$40.97	$13.93
777	23-Apr-10	3	5	$27.04	No	$40.97	$13.93
778	23-Apr-10	3	6	$26.90	No	$40.97	$14.07
779	23-Apr-10	3	7	$25.83	No	$40.97	$15.14
780	23-Apr-10	3	8	$25.83	No	$40.97	$15.14
781	23-Apr-10	3	9	$25.83	No	$40.97	$15.14
782	23-Apr-10	3	10	$25.34	No	$40.97	$15.63
783	23-Apr-10	3	11	$19.57	No	$40.97	$21.40
784	23-Apr-10	3	12	$19.47	No	$40.97	$21.50
785	23-Apr-10	4	1	$19.46	No	$40.97	$21.51
786	23-Apr-10	4	2	$19.46	No	$40.97	$21.51
787	23-Apr-10	4	3	$19.38	No	$40.97	$21.59

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
788	23-Apr-10	4	4	$19.25	No	$40.97	$21.72
789	23-Apr-10	4	5	$0.66	No	$40.97	$40.31
790	23-Apr-10	4	6	$0.66	No	$40.97	$40.31
791	23-Apr-10	4	7	$0.65	No	$40.97	$40.32
792	23-Apr-10	4	8	$14.64	No	$40.97	$26.33
793	23-Apr-10	4	9	$0.65	No	$40.97	$40.32
794	23-Apr-10	4	10	$18.62	No	$40.97	$22.35
795	23-Apr-10	4	11	$19.08	No	$40.97	$21.89
796	23-Apr-10	4	12	$19.14	No	$40.97	$21.83
797	23-Apr-10	5	1	$22.86	No	$40.97	$18.11
798	23-Apr-10	5	2	$25.74	No	$40.97	$15.23
799	23-Apr-10	5	3	$19.46	No	$40.97	$21.51
800	23-Apr-10	5	4	$18.61	No	$40.97	$22.36
801	23-Apr-10	5	5	$19.38	No	$40.97	$21.59
802	23-Apr-10	5	6	$25.97	No	$40.97	$15.00
803	23-Apr-10	5	7	$29.08	No	$40.97	$11.89
804	23-Apr-10	5	8	$26.64	No	$40.97	$14.33
805	23-Apr-10	5	9	$26.98	No	$40.97	$13.99
806	23-Apr-10	5	10	$27.04	No	$40.97	$13.93
807	23-Apr-10	5	11	$28.34	No	$40.97	$12.63
808	23-Apr-10	5	12	$29.11	No	$40.97	$11.86
809	23-Apr-10	6	1	$24.99	No	$40.97	$15.98
810	23-Apr-10	6	2	$24.99	No	$40.97	$15.98
811	23-Apr-10	6	3	$26.27	No	$40.97	$14.70
812	23-Apr-10	6	4	$26.69	No	$40.97	$14.28
813	23-Apr-10	6	5	$26.69	No	$40.97	$14.28
814	23-Apr-10	6	6	$26.97	No	$40.97	$14.00
815	23-Apr-10	6	7	$26.29	No	$40.97	$14.68
816	23-Apr-10	6	8	$28.32	No	$40.97	$12.65
817	23-Apr-10	6	9	$26.47	No	$40.97	$14.50
818	23-Apr-10	6	10	$34.29	No	$40.97	$6.68
819	23-Apr-10	6	11	$29.19	No	$40.97	$11.78
820	23-Apr-10	6	12	$33.31	No	$40.97	$7.66
821	23-Apr-10	7	1	$21.90	No	$40.97	$19.07
822	23-Apr-10	7	2	$27.23	No	$40.97	$13.74
823	23-Apr-10	7	3	$29.36	No	$40.97	$11.61
824	23-Apr-10	7	4	$29.04	No	$40.97	$11.93
825	23-Apr-10	7	5	$29.55	No	$40.97	$11.42
826	23-Apr-10	7	6	$29.32	No	$40.97	$11.65
827	23-Apr-10	7	7	$26.92	No	$40.97	$14.05
828	23-Apr-10	7	8	$29.29	No	$40.97	$11.68
829	23-Apr-10	7	9	$28.49	No	$40.97	$12.48
830	23-Apr-10	7	10	$29.82	No	$40.97	$11.15
831	23-Apr-10	7	11	$35.95	No	$40.97	$5.02
832	23-Apr-10	7	12	$36.36	No	$40.97	$4.61

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
833	23-Apr-10	8	1	$25.77	No	$40.97	$15.20
834	23-Apr-10	8	2	$26.43	No	$40.97	$14.54
835	23-Apr-10	8	3	$28.32	No	$40.97	$12.65
836	23-Apr-10	8	4	$29.43	No	$40.97	$11.54
837	23-Apr-10	8	5	$30.60	No	$40.97	$10.37
838	23-Apr-10	8	6	$30.91	No	$40.97	$10.06
839	23-Apr-10	8	7	$36.06	No	$40.97	$4.91
840	23-Apr-10	8	8	$34.70	No	$40.97	$6.27
841	23-Apr-10	8	9	$33.76	No	$40.97	$7.21
842	23-Apr-10	8	10	$29.98	No	$40.97	$10.99
843	23-Apr-10	8	11	$29.98	No	$40.97	$10.99
844	23-Apr-10	8	12	$29.98	No	$40.97	$10.99
845	23-Apr-10	9	1	$30.80	No	$40.97	$10.17
846	23-Apr-10	9	2	$29.42	No	$40.97	$11.55
847	23-Apr-10	9	3	$29.42	No	$40.97	$11.55

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In April 2010, the ISO applied the exceptional dispatch bid mitigation to the exceptional dispatches that are noncompetitive TMODELs[8] and Delta Dispatch. Table 10 shows the costs by instruction type in April. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were $94,424. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be $176,412. The cost saving from the exceptional dispatch bid mitigation was $81,988.

Table 10: Bid Mitigation Analysis for April

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
TMODEL4	1	$133,871	$60,574	$73,297
TMODEL5	2	$18,427	$13,822	$4,605
TMODEL7	6	$24,114	$20,028	$4,086
Total	9	$176,412	$94,424	$81,988

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

CERTIFICATE OF SERVICE

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

Dated at Folsom, California this 30th day of July, 2010.

/s/ Anna Pascuzzo
Anna Pascuzzo