

February 28, 2014

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-____
November 2013 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 November 2013. The attached Chart 2 report also includes the price impact analysis for the month of November 2013 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 November 2013.

Respectfully submitted,

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Exceptional Dispatch Report

Table 2: November 2013

Market Quality and Renewable Integration

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Introduction

This report is filed pursuant to FERC's September 2, 2009, and May 4, 2010, orders in ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15th of each month and one issued on the 30th of each month. This report provides data on the frequency, reasons and costs for Exceptional Dispatches issued in November 2013.

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 November is presented in Appendix B. This report also includes the degree of mitigation analysis for November 2013 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 November 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 November 2013, the ISO issued exceptional dispatches for the following generation and transmission operating requirements:

- (1) 6510, SCIT Operating Procedure,
- (2) 6610, COI Master Operating Procedure
- (3) 7110, Humboldt Area

Most of the generation procedures are internal to the ISO and not available publicly on the ISO website; however, all of the transmission procedures are available on the ISO website.¹

The following additional reason for exceptional dispatch instructions in November 2013 was not related to specific generation or transmission operating procedures: 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. There were a few other reasons used to explain exceptional dispatch instructions in November, which are self explanatory.

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

- The MW column shows the range of exceptional dispatch instruction in MW for the classification.
- The Commitment column specifies if there was a unit commitment for the classification.

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>

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.

- The INC/DEC/NA column specifies if there was an incremental dispatch (INC), a decremental dispatch (DEC), or only a unit commitment (NA). The Begin Time and End Time columns show the start and end time of exceptional dispatch for the classification respectively.
- The Hours column is the time difference between begin time and end time rounded up to the next hour.
- The total volume column shows the total MWh dispatch quantity dispatched for that classification. This quantity includes the minimum load quantity, the imbalance energy quantity, and the exceptional dispatch quantity.
- The Min-Load Cost column shows eligible minimum load cost for the classification.
- The Start-Up Cost column shows the eligible start up cost for the classification. Please note that the ISO does not explicitly pay resources for its start up and minimum load costs; however, it ensures that resources are compensated adequately through its bid cost recovery process.³
- The CC6470 column shows the total imbalance energy costs for the classification. This cost contains the portion of exceptional dispatch instruction that was settled as optimal energy by virtue of its bid price being less than the LMP in that specific settlement interval.
- The ED Volume MWh (MWh INC/DEC) column shows the incremental or the decremental portion of the real-time exceptional dispatch MWh for the classification. The CC6470-INC shows that portion of incremental exceptional dispatch instruction which is settled at the resource specific LMP.
- The CC6470-DEC column shows that portion of decremental exceptional dispatch instruction which is settled at the resource specific LMP. Both these charge codes are portion of the real-time instructed imbalance energy charge code (6470).⁴
- The CC6482 column shows the real-time excess cost for the classification.⁵
- The CC6488 column shows the real-time exceptional dispatch uplift settlement for the classification.⁶ The CC6620 shows the bid cost recovery payment for the classification. This cost is shown for all pre-day-ahead unit commitments only.

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

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

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 November 2013

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Exceptional Dispatch Report
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Chart 2: Table of Exceptional Dispatches for Period 01/November/2013 - 30/November/2013

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time	Total MWH	Min Load cost	Startup Cost	CC6470	ED MWH (INC/DEC)	CC6470 DEC	CC6482	CC6488	CC6620	
1	RT	6510	PG&E	N/A	25-Nov-13	180	Yes	INC	8	16:00	23:59	195.00	\$0	\$0	(\$7,912)	0	(\$0)	\$0	\$0	\$0	\$0
2	RT	6510	PG&E	Stockton	30-Nov-13	140	No	INC	12	11:00	22:59	1628.52	\$48,556	\$0	(\$58,708)	233	(\$10,819)	\$0	\$0	\$0	\$0
3	RT	6510	SCE	Big Creek-Ventura	8-Nov-13	20-60	Yes	DEC	11	9:55	19:59	7.57	\$0	\$0	(\$361)	0	\$0	\$0	\$0	\$0	\$0
4	RT	6510	SCE	Big Creek-Ventura	8-Nov-13	1-60	Yes	INC	11	9:55	19:59	290.64	\$0	\$0	(\$16,829)	286	(\$16,644)	\$0	\$0	\$0	\$0
5	RT	6510	SCE	Big Creek-Ventura	14-Nov-13	39	Yes	DEC	15	7:35	21:59	-9.83	\$0	\$0	(\$1,239)	0	\$0	\$0	\$0	\$0	\$0
6	RT	6510	SCE	Big Creek-Ventura	14-Nov-13	60-110	Yes	INC	22	0:00	21:59	1635.68	\$0	\$0	(\$57,331)	538	(\$23,662)	\$0	\$0	\$0	\$0
7	RT	6510	SCE	Big Creek-Ventura	16-Nov-13	60	Yes	INC	5	15:40	19:59	395.35	\$0	\$0	(\$17,557)	111	(\$4,725)	\$0	\$0	\$0	\$0
8	RT	6510	SCE	Big Creek-Ventura	17-Nov-13	166-280	Yes	DEC	4	16:00	19:59	-437.09	\$0	\$0	(\$927)	0	\$0	\$0	\$0	\$0	\$0
9	RT	6510	SCE	Big Creek-Ventura	17-Nov-13	100-460	Yes	INC	24	0:00	23:59	12214.90	\$272,339	\$0	(\$400,856)	1410	(\$51,055)	\$0	\$0	\$0	\$0
10	RT	6510	SCE	Big Creek-Ventura	18-Nov-13	120-166	Yes	DEC	8	14:20	21:59	19.45	\$0	\$0	(\$1,824)	0	\$0	\$0	\$0	\$0	\$0

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11	RT	6510	SCE	Big Creek-Ventura	18-Nov-13	60-100	Yes	INC	8	14:20	21:59	423.14	\$9,276	\$0	(\$17,179)	255	(\$10,568)	\$0	\$0	\$0	\$0
12	RT	6510	SCE	Big Creek-Ventura	19-Nov-13	60	Yes	INC	4	16:00	19:59	756.17	\$0	\$0	(\$36,406)	82	(\$3,681)	\$0	\$0	\$0	\$0
13	RT	6510	SCE	Big Creek-Ventura	20-Nov-13	166-205	Yes	DEC	4	16:35	19:59	-247.78	\$0	\$0	\$13,518	0	\$0	\$0	\$0	\$0	\$0
14	RT	6510	SCE	Big Creek-Ventura	20-Nov-13	60	Yes	INC	4	16:35	19:59	16.14	\$0	\$0	(\$928)	7	(\$409)	\$0	\$0	\$0	\$0
15	RT	6510	SCE	Big Creek-Ventura	25-Nov-13	20-50	Yes	INC	11	13:00	23:59	906.91	\$38,648	\$13,959	(\$47,224)	270	(\$14,737)	\$0	(\$1)	\$0	\$0
16	RT	6510	SCE	CAISO Import	14-Nov-13	225	No	INC	1	0:00	0:59	21.00	\$0	\$0	(\$767)	0	\$0	\$0	\$0	\$0	\$0
17	RT	6510	SCE	LA Basin	8-Nov-13	120-254	Yes	DEC	11	9:55	19:59	-12.37	\$0	\$0	\$257	0	\$0	\$0	\$0	\$0	\$0
18	RT	6510	SCE	LA Basin	8-Nov-13	46-246	Yes	INC	11	9:55	19:59	332.23	\$0	\$0	(\$21,917)	380	(\$23,545)	\$0	\$0	\$0	\$0
19	RT	6510	SCE	LA Basin	13-Nov-13	60-407	Yes	DEC	14	10:00	23:59	-43.95	\$0	\$0	(\$11,989)	0	\$0	\$0	\$0	\$0	\$0
20	RT	6510	SCE	LA Basin	13-Nov-13	150-390	Yes	INC	14	10:00	23:59	1472.33	\$15,782	\$220	(\$174,125)	201	(\$9,044)	\$0	\$0	\$0	\$0
21	RT	6510	SCE	LA Basin	14-Nov-13	56-729	No	DEC	17	5:40	21:59	-1186.21	\$0	\$0	\$34,134	0	\$0	\$0	\$0	\$0	\$0
22	RT	6510	SCE	LA Basin	14-Nov-13	0-212	No	INC	22	0:00	21:59	999.24	\$7,891	\$0	(\$43,080)	455	(\$20,291)	\$0	\$0	\$0	\$0
23	RT	6510	SCE	LA Basin	16-Nov-13	87-176	No	DEC	10	10:55	19:59	1.16	\$0	\$0	(\$125)	0	\$0	\$0	\$0	\$0	\$0

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24	RT	6510	SCE	LA Basin	16-Nov-13	26-220	No	INC	10	10:20	19:59	949.55	\$0	\$0	(\$40,983)	646	(\$27,647)	\$0	\$0	\$0	\$0
25	RT	6510	SCE	LA Basin	17-Nov-13	124-372	No	DEC	6	14:30	19:59	-316.95	\$0	\$0	\$11,371	0	\$0	\$0	\$0	\$0	\$0
26	RT	6510	SCE	LA Basin	17-Nov-13	66-162	No	INC	6	14:30	19:59	111.88	\$0	\$0	(\$4,737)	74	(\$3,165)	\$0	\$0	\$0	\$0
27	RT	6510	SCE	LA Basin	18-Nov-13	59-407	Yes	DEC	15	7:15	21:59	-519.04	\$0	\$0	\$20,351	0	\$0	\$0	\$0	\$0	\$0
28	RT	6510	SCE	LA Basin	18-Nov-13	46-193	Yes	INC	15	7:15	21:59	401.92	\$6,640	\$0	(\$16,991)	341	(\$14,798)	\$0	\$0	\$0	\$0
29	RT	6510	SCE	LA Basin	19-Nov-13	56-200	Yes	DEC	12	10:35	21:59	135.26	\$0	\$0	(\$7,086)	0	\$0	\$0	\$0	\$0	\$0
30	RT	6510	SCE	LA Basin	19-Nov-13	46-216	Yes	INC	12	10:35	21:59	1423.58	\$0	\$0	(\$64,916)	1306	(\$59,142)	\$0	\$0	\$0	\$0
31	RT	6510	SCE	LA Basin	20-Nov-13	0-357	No	DEC	13	7:30	19:59	4.89	\$0	\$0	(\$136)	0	\$0	\$0	\$0	\$0	\$0
32	RT	6510	SCE	LA Basin	20-Nov-13	291	Yes	INC	13	7:25	19:59	2560.15	\$0	\$0	(\$136,696)	1811	(\$88,807)	\$0	\$0	\$0	\$0
33	RT	6510	SCE	LA Basin	22-Nov-13	0-171	Yes	DEC	13	7:30	19:59	23.05	\$0	\$0	(\$6,846)	0	\$0	\$0	\$0	\$0	\$0
34	RT	6510	SCE	LA Basin	22-Nov-13	190-406	Yes	INC	13	7:30	19:59	4401.68	\$0	\$0	(\$242,110)	982	(\$45,077)	\$0	\$0	\$0	\$0
35	RT	6510	SCE	LA Basin	25-Nov-13	20-171	Yes	INC	9	15:00	23:59	1100.86	\$39,313	\$13,573	(\$46,316)	0	(\$2)	\$0	(\$0)	\$0	\$0
36	RT	6510	SCE	LA Basin	26-Nov-13	150	No	INC	12	3:15	14:59	-133.45	\$0	\$0	\$4,805	0	\$0	\$0	\$0	\$0	\$0

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37	RT	6510	SDG&E	San Diego-IV	8-Nov-13	65	No	INC	11	9:50	19:59	184.82	\$26,462	\$0	(\$8,277)	14	(\$826)	\$0	\$0	\$0	\$0
38	RT	6510	SDG&E	San Diego-IV	16-Nov-13	63	No	INC	10	10:00	19:59	94.15	\$15,877	\$0	(\$2,933)	0	(\$2)	\$0	\$0	\$0	\$0
39	RT	6510	SDG&E	San Diego-IV	18-Nov-13	131	No	INC	15	7:15	21:59	353.31	\$68,798	\$0	(\$16,860)	0	(\$12)	\$0	\$0	\$0	\$0
40	RT	6510	SDG&E	San Diego-IV	19-Nov-13	131	No	INC	12	10:30	21:59	818.24	\$32,267	\$0	(\$35,043)	0	(\$12)	\$0	\$0	\$0	\$0
41	RT	6510	SDG&E	San Diego-IV	20-Nov-13	131	No	INC	14	6:48	19:59	606.95	\$63,629	\$0	(\$31,887)	8	(\$552)	\$0	\$0	\$0	\$0
42	RT	6510	SDG&E	San Diego-IV	22-Nov-13	60-171	Yes	INC	24	0:00	23:59	3905.98	\$199,806	\$0	(\$287,730)	1	(\$36)	\$0	\$0	\$0	\$0
43	RT	6510	SDG&E	San Diego-IV	25-Nov-13	20-63	No	INC	9	15:00	23:59	691.88	\$44,042	\$18,489	(\$33,448)	0	(\$4)	\$0	(\$2)	\$0	\$0
44	RT	6610	SCE	Big Creek-Ventura	13-Nov-13	23-440	Yes	DEC	13	11:45	23:59	-1220.18	\$0	\$0	\$9,367	(794)	\$0	\$32,115	\$0	\$0	\$0
45	RT	6610	SCE	Big Creek-Ventura	13-Nov-13	58-360	Yes	INC	13	11:55	23:59	853.53	\$0	\$0	(\$84,624)	0	\$0	\$0	\$0	\$0	\$0
46	RT	6610	SCE	CAISO Import	13-Nov-13	25-159	No	DEC	14	10:40	23:59	-504.58	\$0	\$0	(\$19,002)	(168)	\$0	(\$15,139)	\$0	\$0	\$0
47	RT	6610	SCE	CAISO Import	13-Nov-13	3-105	No	INC	12	12:40	23:59	-910.79	\$0	\$0	(\$56,512)	(1)	\$0	\$0	\$0	\$0	\$0
48	RT	7110	PG&E	Humboldt	3-Nov-13	15	No	INC	5	17:54	21:30	49.25	\$0	\$99	(\$4,953)	2	(\$183)	\$0	\$0	\$0	\$0
49	RT	7110	PG&E	Humboldt	4-Nov-13	15	No	INC	15	7:15	21:29	202.03	\$0	\$0	(\$13,960)	0	\$0	\$0	\$0	\$0	\$0

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50	RT	7110	PG&E	Humboldt	5-Nov-13	15	No	INC	14	8:54	21:54	211.56	\$0	\$0	(\$10,606)	7	(\$350)	\$0	\$0	\$0	\$0
51	RT	7110	PG&E	Humboldt	7-Nov-13	16	No	INC	11	11:18	21:14	132.70	\$1,233	\$0	(\$6,142)	3	(\$153)	\$0	\$0	(\$3)	\$0
52	RT	7110	PG&E	Humboldt	15-Nov-13	15	No	INC	6	18:38	23:44	73.21	\$0	\$0	(\$2,878)	3	(\$122)	\$0	\$0	(\$2)	\$0
53	RT	7110	PG&E	Humboldt	16-Nov-13	15-29	No	INC	14	8:01	21:59	206.55	\$926	\$0	(\$8,169)	0	\$0	\$0	\$0	\$0	\$0
54	RT	7110	PG&E	Humboldt	21-Nov-13	30-60	No	INC	15	6:43	20:43	284.23	\$5,664	\$0	(\$17,891)	17	(\$1,125)	\$0	\$0	(\$0)	\$0
55	RT	Bridging Schedules	SCE	Big Creek-Ventura	16-Nov-13	100	Yes	INC	4	20:00	23:59	1121.53	\$37,564	\$0	(\$47,520)	0	\$0	\$0	\$0	\$0	\$0
56	RT	Bridging Schedules	SDG&E	San Diego-IV	2-Nov-13	40-60	Yes	INC	3	21:00	23:59	156.33	\$15,607	\$0	(\$5,769)	0	\$0	\$0	\$0	\$0	\$0
57	RT	Generation Outage	PG&E	Bay Area	1-Nov-13	0	No	INC	3	8:00	10:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
58	RT	Market Disruption	Intertie	N/A	3-Nov-13	133	No	DEC	1	23:00	23:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
59	RT	Market Disruption	Intertie	N/A	3-Nov-13	500	No	INC	1	23:00	23:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
60	RT	Market Disruption	PG&E	Fresno	30-Nov-13	483-800	Yes	INC	2	20:08	21:12	834.18	\$17,928	\$2,000	(\$27,601)	557	(\$18,422)	\$0	(\$16,411)	\$0	\$0
61	RT	Software Limitation	PG&E	Fresno	13-Nov-13	20	No	INC	8	14:45	21:59	425.26	\$15,122	\$205	(\$34,057)	0	(\$0)	\$0	\$0	\$0	\$0
62	RT	Software Limitation	PG&E	Fresno	22-Nov-13	77-160	Yes	DEC	2	5:48	6:14	-37.56	\$0	\$0	\$1,259	(13)	\$0	\$449	\$0	\$0	\$0

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63	RT	Software Limitation	PG&E	Fresno	22-Nov-13	0	Yes	INC	2	5:48	6:03	-6.67	\$0	\$0	\$505	0	\$0	\$0	\$0	\$0	\$0
64	RT	Software Limitation	PG&E	N/A	1-Nov-13	0	No	INC	1	23:30	23:58	0.00	\$0	\$0	(\$0)	0	\$0	\$0	\$0	\$0	\$0
65	RT	Software Limitation	SCE	Big Creek-Ventura	12-Nov-13	0	Yes	INC	2	19:35	20:34	3.92	\$0	\$23	(\$182)	0	\$0	\$0	\$0	\$0	\$0
66	RT	Software Limitation	SCE	Big Creek-Ventura	20-Nov-13	0	Yes	INC	1	23:00	23:58	74.77	\$0	\$0	(\$2,730)	0	\$0	\$0	\$0	\$0	\$0
67	RT	Software Limitation	SCE	Big Creek-Ventura	21-Nov-13	0	Yes	INC	7	0:00	6:59	9.38	\$0	\$0	(\$329)	0	\$0	\$0	\$0	\$0	\$0
68	RT	Software Limitation	SCE	LA Basin	1-Nov-13	96	No	DEC	1	20:05	20:34	-59.78	\$0	\$0	\$1,421	(48)	\$0	\$856	\$0	\$0	\$0
69	RT	Software Limitation	SCE	LA Basin	2-Nov-13	0	Yes	INC	2	0:25	1:24	3.84	\$0	\$184	(\$203)	0	\$0	\$0	\$0	\$0	\$0
70	RT	Software Limitation	SCE	LA Basin	4-Nov-13	0	Yes	INC	2	22:30	23:29	8.02	\$0	\$0	(\$260)	0	\$0	\$0	\$0	\$0	\$0
71	RT	Software Limitation	SCE	LA Basin	10-Nov-13	184	Yes	DEC	2	19:30	20:29	-	\$0	\$0	\$3,496	(184)	\$0	\$3,496	\$0	\$0	\$0
72	RT	Software Limitation	SCE	LA Basin	13-Nov-13	92	Yes	DEC	2	15:50	16:49	-92.09	\$0	\$0	\$3,226	(92)	\$0	\$3,226	\$0	\$0	\$0
73	RT	Software Limitation	SCE	LA Basin	25-Nov-13	151	No	INC	2	14:45	15:14	116.92	\$5,394	\$0	(\$4,319)	0	\$0	\$0	\$0	\$0	\$0
74	RT	Software Limitation	SCE	LA Basin	26-Nov-13	20	No	DEC	3	0:00	2:59	-57.50	\$0	\$0	\$1,929	(59)	\$0	\$1,929	\$0	\$0	\$0
75	RT	Software Limitation	SDG&E	San Diego-IV	3-Nov-13	20	No	INC	3	2:10	4:59	84.70	\$8,174	\$0	\$1,639	0	\$0	\$0	\$0	\$0	\$0

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76	RT	System Energy	Intertie	N/A	13-Nov-13	400	No	DEC	1	18:00	18:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
77	RT	System Energy	Intertie	N/A	13-Nov-13	700	No	INC	1	18:00	18:59	-100.00	\$0	\$0	\$1,500	(100)	\$0	\$1,500	\$0	\$0	\$0
78	RT	System Energy	Intertie	N/A	14-Nov-13	300	No	INC	1	15:00	15:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
79	RT	Thermal Margin	PG&E	Bay Area	3-Nov-13	175	No	INC	17	5:00	21:59	4578.64	\$129,746	\$0	(\$140,303)	0	\$0	\$0	\$0	\$0	\$0
80	RT	Thermal Margin	SCE	LA Basin	20-Nov-13	20	Yes	INC	8	16:00	23:59	1302.70	\$18,256	\$13,573	(\$79,231)	0	\$0	\$0	\$0	\$0	\$0
81	RT	Transmission Outage Other	PG&E	Bay Area	14-Nov-13	480	No	INC	11	8:00	18:59	579.92	\$14,751	\$0	(\$19,059)	0	\$0	\$0	\$0	\$0	\$0
82	RT	Transmission Outage PG&E	N/A	N/A	26-Nov-13	40	No	INC	1	8:10	8:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
83	RT	Transmission Outage PG&E	PG&E	Bay Area	5-Nov-13	450	No	INC	2	6:47	7:59	-93.11	\$1,002	\$0	(\$73,061)	(36)	\$0	(\$13,042)	\$0	(\$658)	\$0
84	RT	Transmission Outage PG&E	PG&E	Bay Area	6-Nov-13	470-490	No	INC	13	6:22	18:29	2275.47	\$68,865	\$0	(\$73,127)	(26)	\$0	\$1,187	\$0	(\$399)	\$0
85	RT	Transmission Outage PG&E	PG&E	Bay Area	13-Nov-13	480-500	No	INC	13	6:30	18:29	779.85	\$44,177	\$0	\$106,812	(160)	\$0	\$7,142	\$0	(\$2,146)	\$0
86	RT	Transmission Outage PG&E	PG&E	Bay Area	14-Nov-13	480	No	INC	2	6:20	7:24	505.31	\$18,132	\$0	\$448,666	0	\$0	\$0	\$0	\$0	\$0
87	RT	Transmission Outage PG&E	PG&E	Fresno	3-Nov-13	0	No	INC	4	9:25	12:59	0.00	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
88	RT	Transmission Outage PG&E	PG&E	Fresno	15-Nov-13	45	Yes	INC	2	11:11	12:59	81.38	\$2,754	\$41	(\$8,043)	0	(\$25)	\$0	\$0	(\$1)	\$0

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89	RT	Transmission Outage PG&E	PG&E	Fresno	19-Nov-13	20	No	INC	10	10:45	19:59	281.36	\$13,346	\$280	(\$17,949)	0	(\$1)	\$0	\$0	(\$0)	\$0
90	RT	Transmission Outage PG&E	PG&E	Fresno	26-Nov-13	40	No	INC	1	9:10	9:59	32.92	\$2,335	\$447	(\$1,230)	0	\$0	\$0	\$0	\$0	\$0
91	RT	Transmission Outage PG&E	PG&E	Fresno	27-Nov-13	0	Yes	INC	1	4:28	4:50	121.50	\$0	\$0	(\$5,321)	0	\$0	\$0	\$0	\$0	\$0
92	RT	Transmission Outage PG&E	PG&E	Fresno	29-Nov-13	0	Yes	INC	2	3:52	4:01	91.13	\$0	\$0	(\$2,424)	0	\$0	\$0	\$0	\$0	\$0
93	RT	Transmission Outage PG&E	PG&E	Humboldt	2-Nov-13	30-32	No	INC	12	6:28	17:59	308.12	\$0	\$0	(\$12,306)	3	(\$143)	\$0	\$0	(\$0)	\$0
94	RT	Transmission Outage PG&E	PG&E	Humboldt	9-Nov-13	15-30	No	INC	19	5:47	23:59	571.72	\$3,371	\$185	(\$24,707)	4	(\$172)	\$0	\$0	(\$6)	\$0
95	RT	Transmission Outage PG&E	PG&E	Humboldt	10-Nov-13	30-44	No	INC	10	6:21	15:59	227.37	\$1,138	\$0	(\$10,138)	1	(\$49)	\$0	\$0	(\$0)	\$0
96	RT	Transmission Outage PG&E	PG&E	Humboldt	12-Nov-13	16	No	INC	14	7:47	20:53	160.78	\$0	\$67	(\$9,917)	14	(\$879)	\$0	\$0	\$0	\$0
97	RT	Transmission Outage PG&E	PG&E	Humboldt	13-Nov-13	15	No	INC	11	7:08	17:24	242.06	\$0	\$0	(\$12,019)	1	(\$36)	\$0	\$0	(\$0)	\$0
98	RT	Transmission Outage PG&E	PG&E	Humboldt	14-Nov-13	15-44	No	INC	14	6:19	19:25	431.30	\$939	\$0	(\$19,780)	7	(\$308)	\$0	\$0	(\$2)	\$0
99	RT	Transmission Outage PG&E	PG&E	Humboldt	21-Nov-13	30-45	No	INC	5	9:00	13:44	173.12	\$0	\$0	(\$14,143)	8	(\$618)	\$0	\$0	\$0	\$0
100	RT	Transmission Outage PG&E	PG&E	Humboldt	26-Nov-13	15-30	No	INC	17	6:10	22:26	132.42	\$2,260	\$0	(\$5,318)	12	(\$467)	\$0	\$0	(\$68)	\$0
101	RT	Transmission Outage PG&E	PG&E	Sierra	18-Nov-13	20	Yes	INC	13	6:00	18:59	289.83	\$19,232	\$766	(\$13,456)	0	\$0	\$0	\$0	\$0	\$0

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102	RT	Transmission Outage PG&E	PG&E	Stockton	26-Nov-13	37- 126	No	INC	9	8:43	16:59	701.91	\$24,58 7	\$0	(\$26,82 7)	110	(\$3,80 3)	\$0	\$0	(\$7)	\$0
103	RT	Transmission Outage SCE	PG&E	Fresno	18-Nov-13	0	Yes	INC	1	5:12	5:34	-10.80	\$0	\$0	\$347	0	\$0	\$0	\$0	\$0	\$0
104	RT	Transmission Outage SCE	SCE	LA Basin	1-Nov-13	20- 402	Yes	INC	20	4:00	23:59	8252.3 5	\$100,9 57	\$45,01 3	(\$481,6 88)	1824	(\$82,4 18)	\$0	\$0	\$0	\$0
105	RT	Transmission Outage SCE	SCE	LA Basin	3-Nov-13	20- 40	No	INC	1	23:00	23:59	2289.0 7	\$183,6 06	\$0	(\$225,3 01)	0	\$0	\$0	\$0	\$0	\$0
106	RT	Transmission Outage SCE	SCE	LA Basin	21-Nov-13	46	Yes	INC	2	6:37	7:46	66.01	\$3,299	\$291	(\$1,200)	0	\$0	\$0	\$0	\$0	\$0
107	RT	Transmission Outage SCE	SDG&E	San Diego-IV	1-Nov-13	20- 89	Yes	INC	17	7:00	23:59	2095.0 8	\$98,90 2	\$16,48 4	(\$168,9 44)	2	(\$71)	\$0	\$0	(\$5)	\$0
108	RT	Transmission Outage SCE	SDG&E	San Diego-IV	3-Nov-13	20	No	INC	24	0:00	23:59	463.31	\$58,84 0	\$0	(\$16,12 2)	0	\$0	\$0	\$0	\$0	\$0
109	RT	Transmission Outage SCE	SDG&E	San Diego-IV	4-Nov-13	20	No	INC	24	0:00	23:59	1577.7 8	\$96,80 2	\$0	(\$136,5 17)	0	(\$4)	\$0	(\$2)	(\$0)	\$0
110	RT	Transmission Outage SCE	SDG&E	San Diego-IV	5-Nov-13	20	No	INC	24	0:00	23:59	479.59	\$67,30 3	\$0	(\$26,54 4)	0	(\$9)	\$0	\$0	(\$2)	\$0
111	RT	Transmission Outage SDG&E	SCE	LA Basin	1-Nov-13	72	No	INC	5	14:30	18:59	550.22	\$0	\$0	(\$31,06 9)	135	(\$7,43 8)	\$0	\$0	\$0	\$0
112	RT	Transmission Outage SDG&E	SDG&E	San Diego-IV	6-Nov-13	39	No	DEC	5	16:55	20:59	- 139.81	\$0	\$0	\$5,788	(140)	\$0	\$5,788	\$0	(\$5,788)	\$0
113	RT	Transmission Outage SDG&E	SDG&E	San Diego-IV	6-Nov-13	0	No	INC	5	16:55	20:59	-3.25	\$0	\$0	\$162	0	\$0	\$0	\$0	\$0	\$0
114	RT	Transmission Outage SDG&E	SDG&E	San Diego-IV	27-Nov-13	44- 45	Yes	INC	7	7:25	13:59	243.47	\$12,89 4	\$290	(\$9,406)	0	\$0	\$0	\$0	\$0	\$0

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115	RT	Unit Testing	PG&E	Sierra	14-Nov-13	166	Yes	INC	5	6:15	10:59	813.87	\$9,951	\$27,470	(\$31,987)	0	(\$21)	\$0	\$0	\$0	\$0
116	RT	Unit Testing	PG&E	Stockton	30-Nov-13	140	No	INC	1	10:20	10:59	135.87	\$3,405	\$33,230	(\$4,314)	10	(\$509)	\$0	\$0	\$0	\$0

Appendix A: Explanation by Example

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

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

Example 1: Exceptional Dispatch Instructions Prior to DAM

In this fictitious example the ISO issued an exceptional dispatch instruction for resource A to be committed at its Pmin of 50 MW from hours ending 5 through 10 for a generation procedure 7630. Similarly, the ISO issued additional instructions to resources B and C for the same reason as shown in Table 2. Generally exceptional dispatches prior to the day-ahead market are commitments to minimum load. In this case the dispatch levels are all at minimum load. Table 2 below also shows the commitment costs and the total volume (MWh) of exceptional dispatch instruction for each resource. The minimum load costs and start up costs, shown in Table 2 are the eligible minimum load and start up costs which are different from the bid-in minimum load and start up costs⁷. Only those quantities which are relevant to pre-day-ahead unit commitments are shown in this table.

Table 2: Instructions Prior to Day-Ahead Market

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Reason	Total Volume (MWh)	Min-Load Cost	Start- Up Cost	CC6620 (BCR)
01-Jul-09	DA	A	SCE	LA BASIN	05:00	10:00	50	7630	300	\$5000	\$0	0
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	7630	390	\$6000	\$500	\$4000
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	7630	300	\$400	\$1000	\$1000

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

Table 3: FERC Summary of Instructions Prior to DAM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total Volume (MWh)	Min-Load Cost	Start-Up Cost	CC6620
1	DA	7630	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00	990	\$11,400	\$1,500	\$5000

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

Example 2: Incremental Exceptional Dispatch Instructions in RTM

In this fictitious example the ISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 30 MW from hours 6:00 through 11:00 after completion of the day-ahead market for the transmission procedure 7110. This resource did not have a day-ahead award in those hours. The ISO issued another exceptional dispatch instruction to resource B, to be dispatched at 40 MW from hours 7:00 through 9:00 in real-time for the transmission procedure 7110. This resource had a day-ahead schedule of 20 MW from the day-ahead market, which implies that this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C is shown in Table 4. This table also shows volume (MWh) and various real-time charge codes associated with the exceptional dispatch instructions. The total MWh column for each resource shows the sum of all types of imbalance energy quantities for this resource between the begin time and end time which includes both the exceptional dispatch energy quantities and optimal energy quantities.

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

Resource B is dispatched 20 MW above its day-ahead schedule, so its total volume (MWh) is calculated as 20 MW times 3 hours which is equal to 60 MWh. Since the resource was committed in the Day-Ahead Market there are no minimum load quantity and start up costs associated with this resource. The resource had a bid price of \$100/MWh and the LMP at that resource was \$10/MWh. All of 60 MWh is considered as exceptional dispatch incremental quantity which is shown in ED Volume (MWH INC/DEC) column. The charge code CC6470 INC is calculated as 60 MWh * resource LMP (\$10/MWh) which is equal to \$600. Since the only imbalance energy in this timeframe was the exceptional dispatch volume, the charge code CC6470 is equal to CC6470 INC. The charge code CC6488 is calculated as MWh quantity *(bid price – LMP), which is equal to \$5400 (60 MWh *(\$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	7110	180	1000	50	1800	0	0	0	0	0
1-Jul-09	RT	B	PG&E	Humboldt	7:00	9:00	40	20	No	INC	20	7110	60	0	0	600	60	600	0	0	5400
1-Jul-09	RT	C	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	7110	0	0	0	0	0	0	0	0	0
1-Jul-09	RT	C	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	7110	50	0	0	300	20	300	0	0	200

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

Table 5: FERC Summary of ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1	RT	7110	PG&E	Humboldt	1-Jul-09	0-50	Yes	INC	15	6:00	20:00	290	1000	50	1700	140	1500	0	0	11000

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

Example 3: Decremental Exceptional Dispatch Instructions in RTM

This example highlights decremental exceptional dispatch instructions in the real-time market. In this fictitious example the ISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 20 MW from hours ending 15 through 20 after completion of the day-ahead market for the transmission procedure 7430. The ISO issued additional exceptional dispatch instructions for resources B and C; details of those instructions are shown in Table 6. This table also includes volume (MWh) and cost information.

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

Table 6: Decremental Exceptional Dispatch Instructions in RTM

Date	Market Type	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch level (MW)	Day-Ahead Award (MW)	Commitment	INC/DEC	ED (MW)	Reason	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
1-Jul-09	RT	B	PG&E	Fresno	7:00	9:00	40	60	No	DEC	20	7430	(60)	\$ -	\$ -	\$ 600	-60	\$ -	\$ 600	\$ -	\$2,400
1-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	7430	(50)	\$ -	\$ -	\$ 500	-50	\$ -	\$ 500	\$ -	\$2,000

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

Table 7: FERC Summary of Decremental ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	MW	Commitment	INC/DEC	Hour	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488
1	RT	7430	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00	120	\$ 120	\$ 100	\$ -	0	\$ -	\$ -	\$ -	\$ -
2	RT	7430	PG&E	Fresno	1-Jul-09	10-20	Yes	DEC	8	7:00	14:00	(110)	\$ -	\$ -	\$ (1,100)	\$ (110)	\$ -	\$ (1,100)	\$ -	\$ (4,400)

Appendix B: Price Impact Analysis

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

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

Exceptional dispatch information: constrained level, constraint type, start of exceptional dispatch instruction and end of exceptional dispatch instruction.

Real-Time LMPs for each of the five minute intervals for the month.

Real-Time hourly bid set for each trade hour.

Day-Ahead award for the resources.

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

An exceptional dispatch instruction can be generally classified as a start up instruction, an instruction to be dispatched at or above the constrained level, an instruction to be dispatched at or below a constrained level, an instruction to be dispatched at a fixed constrained level, or a shut down instruction. In general, the Locational Marginal Price (LMP) is set by a resource which can provide the next incremental MW of energy. Based on this definition of LMP and the classification of exceptional dispatches based on constraint type, a resource is allowed to set the LMP in only those intervals in which the resource is eligible to move either up or down from its constrained level. Hence, in those intervals in which the resource was constrained up at its Pmax or, in other words, the resource was exceptionally dispatched to its Pmax and forced to generate at that level, the resource was considered ineligible to set the price as it had no room to move up. Similarly, if the resource was constrained down at its Pmin, then the resource was not eligible to set the price. All those intervals in which the resource was ineligible to set the price were dropped from the dataset under consideration. From this dataset of only eligible intervals, for both pricing nodes A and B, LMPs were calculated for all intervals based on the resource dispatch level and the 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 PGAE area. This table shows all the five minute intervals in which the resource at PNode A was issued an exceptional dispatch instruction. Out of the 8640 five-minute intervals in November, this resource was issued exceptional dispatch instructions in 18 five-minute intervals. This resource was eligible to set the LMP in 15 intervals. Resource calculated LMP was larger than the market LMP in all of 15 intervals. In the 15 intervals, the average increase in five minute LMP was \$54.65/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 \$43.93/MWh.

Table 9 shows the price impact analysis information for node B, which is located in the SCE area. This table shows all the five minute intervals in which the resource at PNode B was issued an exceptional dispatch instruction. Out of the 8640 five minute intervals, this resource was issued an exceptional dispatch instruction in 1644 five minute intervals. This resource was eligible to set the LMP in 1149 intervals. Out of the 1149 intervals, resource calculated LMP was larger than the market LMP in 771 intervals. In the 771 intervals, the average increase in five minute LMP was \$15.67/MWh. Out of the 1149 intervals, resource calculated LMP was less than the market LMP in 378 intervals. In the 378 intervals, the average decrease in five minute LMP was \$31.10/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 decrease of \$2.09/MWh.

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	22-Nov-13	6	11	\$49.48	No	\$46.26	(\$3.22)
2	22-Nov-13	6	12	\$84.52	No	\$46.26	(\$38.26)
3	22-Nov-13	7	1	\$33.91	No	\$46.26	\$12.35
4	22-Nov-13	7	2	\$32.70	Yes	\$46.26	\$13.56
5	22-Nov-13	7	3	\$32.70	Yes	\$46.26	\$13.56
6	30-Nov-13	21	3	\$32.99	Yes	\$93.97	\$60.98
7	30-Nov-13	21	4	\$32.99	Yes	\$93.97	\$60.98
8	30-Nov-13	21	5	\$32.99	Yes	\$93.97	\$60.98
9	30-Nov-13	21	6	\$32.99	Yes	\$93.97	\$60.98
10	30-Nov-13	21	7	\$32.99	Yes	\$93.97	\$60.98
11	30-Nov-13	21	8	\$32.99	Yes	\$93.97	\$60.98
12	30-Nov-13	21	9	\$32.99	Yes	\$93.97	\$60.98
13	30-Nov-13	21	10	\$32.99	Yes	\$93.97	\$60.98
14	30-Nov-13	21	11	\$32.99	Yes	\$93.97	\$60.98
15	30-Nov-13	21	12	\$32.99	Yes	\$93.97	\$60.98
16	30-Nov-13	22	1	\$32.99	Yes	\$93.97	\$60.98
17	30-Nov-13	22	2	\$32.99	Yes	\$93.97	\$60.98
18	30-Nov-13	22	3	\$32.99	Yes	\$93.97	\$60.98

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

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	1-Nov-13	5	1	\$43.39	Yes	\$44.45	\$1.06
2	1-Nov-13	5	2	\$43.04	Yes	\$44.45	\$1.41
3	1-Nov-13	5	3	\$43.04	Yes	\$44.45	\$1.41
4	1-Nov-13	5	4	\$32.42	Yes	\$44.45	\$12.03
5	1-Nov-13	5	5	\$32.42	Yes	\$44.45	\$12.03
6	1-Nov-13	5	6	\$33.09	Yes	\$44.45	\$11.36
7	1-Nov-13	5	7	\$39.95	Yes	\$44.45	\$4.50
8	1-Nov-13	5	8	\$39.95	Yes	\$44.45	\$4.50
9	1-Nov-13	5	9	\$39.95	Yes	\$44.45	\$4.50
10	1-Nov-13	5	10	\$32.31	Yes	\$44.45	\$12.14
11	1-Nov-13	5	11	\$32.45	Yes	\$44.45	\$12.00
12	1-Nov-13	5	12	\$39.99	Yes	\$44.45	\$4.46
13	1-Nov-13	6	1	\$32.60	Yes	\$44.45	\$11.85
14	1-Nov-13	6	2	\$32.42	Yes	\$44.45	\$12.03
15	1-Nov-13	6	3	\$34.28	Yes	\$44.45	\$10.17
16	1-Nov-13	6	4	\$40.07	Yes	\$44.45	\$4.38
17	1-Nov-13	6	5	\$42.17	Yes	\$44.45	\$2.28
18	1-Nov-13	6	6	\$43.91	Yes	\$44.45	\$0.54
19	1-Nov-13	6	7	\$41.04	Yes	\$44.45	\$3.41
20	1-Nov-13	6	8	\$43.88	Yes	\$44.45	\$0.57
21	1-Nov-13	6	9	\$52.00	Yes	\$44.45	(\$7.55)
22	1-Nov-13	6	10	\$45.13	Yes	\$44.45	(\$0.68)
23	1-Nov-13	6	11	\$47.23	Yes	\$44.45	(\$2.78)
24	1-Nov-13	6	12	\$47.00	Yes	\$44.45	(\$2.55)
25	1-Nov-13	7	1	\$31.28	Yes	\$44.45	\$13.17
26	1-Nov-13	7	2	\$31.28	Yes	\$44.45	\$13.17
27	1-Nov-13	7	3	\$31.80	Yes	\$44.45	\$12.65
28	1-Nov-13	7	4	\$34.16	Yes	\$44.45	\$10.29
29	1-Nov-13	7	5	\$34.16	Yes	\$44.45	\$10.29
30	1-Nov-13	7	6	\$39.06	Yes	\$44.45	\$5.39
31	1-Nov-13	7	7	\$36.08	Yes	\$44.45	\$8.37
32	1-Nov-13	7	8	\$40.43	Yes	\$44.45	\$4.02
33	1-Nov-13	7	9	\$42.50	Yes	\$44.45	\$1.95
34	1-Nov-13	7	10	\$29.26	Yes	\$44.45	\$15.19
35	1-Nov-13	7	11	\$35.86	Yes	\$44.45	\$8.59
36	1-Nov-13	7	12	\$47.29	Yes	\$44.45	(\$2.84)
37	1-Nov-13	8	1	\$42.14	Yes	\$44.45	\$2.31
38	1-Nov-13	8	2	\$61.63	Yes	\$44.45	(\$17.18)
39	1-Nov-13	8	3	\$74.32	Yes	\$44.45	(\$29.87)
40	1-Nov-13	8	4	\$44.49	Yes	\$44.45	(\$0.04)

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41	1-Nov-13	8	5	\$41.51	Yes	\$44.45	\$2.94
42	1-Nov-13	8	6	\$39.89	Yes	\$44.45	\$4.56
43	1-Nov-13	8	7	\$37.64	Yes	\$44.45	\$6.81
44	1-Nov-13	8	8	\$37.48	Yes	\$44.45	\$6.97
45	1-Nov-13	8	9	\$37.79	Yes	\$44.45	\$6.66
46	1-Nov-13	8	10	\$15.64	Yes	\$44.45	\$28.81
47	1-Nov-13	8	11	\$34.58	Yes	\$44.45	\$9.87
48	1-Nov-13	8	12	\$38.74	Yes	\$44.45	\$5.71
49	1-Nov-13	9	1	\$52.07	Yes	\$44.45	(\$7.62)
50	1-Nov-13	9	2	\$51.40	Yes	\$44.45	(\$6.95)
51	1-Nov-13	9	3	\$52.07	Yes	\$44.45	(\$7.62)
52	1-Nov-13	9	4	\$52.11	Yes	\$44.45	(\$7.66)
53	1-Nov-13	9	5	\$48.70	Yes	\$44.45	(\$4.25)
54	1-Nov-13	9	6	\$46.78	Yes	\$44.45	(\$2.33)
55	1-Nov-13	9	7	\$47.38	Yes	\$44.45	(\$2.93)
56	1-Nov-13	9	8	\$46.25	Yes	\$44.45	(\$1.80)
57	1-Nov-13	9	9	\$41.82	Yes	\$44.45	\$2.63
58	1-Nov-13	9	10	\$42.50	Yes	\$44.45	\$1.95
59	1-Nov-13	9	11	\$40.37	Yes	\$44.45	\$4.08
60	1-Nov-13	9	12	\$38.77	Yes	\$44.45	\$5.68
61	1-Nov-13	10	1	\$47.98	Yes	\$44.45	(\$3.53)
62	1-Nov-13	10	2	\$46.16	Yes	\$44.45	(\$1.71)
63	1-Nov-13	10	3	\$46.16	Yes	\$44.45	(\$1.71)
64	1-Nov-13	10	4	\$33.18	Yes	\$44.45	\$11.27
65	1-Nov-13	10	5	\$33.40	Yes	\$44.45	\$11.05
66	1-Nov-13	10	6	\$33.97	Yes	\$44.45	\$10.48
67	1-Nov-13	10	7	\$35.76	Yes	\$44.45	\$8.69
68	1-Nov-13	10	8	\$33.98	Yes	\$44.45	\$10.47
69	1-Nov-13	10	9	\$33.98	Yes	\$44.45	\$10.47
70	1-Nov-13	10	10	\$38.68	Yes	\$44.45	\$5.77
71	1-Nov-13	10	11	\$40.48	Yes	\$44.45	\$3.97
72	1-Nov-13	10	12	\$39.69	Yes	\$44.45	\$4.76
73	1-Nov-13	11	1	\$36.10	Yes	\$44.45	\$8.35
74	1-Nov-13	11	2	\$36.10	Yes	\$44.45	\$8.35
75	1-Nov-13	11	3	\$33.41	Yes	\$44.45	\$11.04
76	1-Nov-13	11	4	\$35.77	Yes	\$44.45	\$8.68
77	1-Nov-13	11	5	\$34.02	Yes	\$44.45	\$10.43
78	1-Nov-13	11	6	\$35.77	Yes	\$44.45	\$8.68
79	1-Nov-13	11	7	\$35.75	Yes	\$44.45	\$8.70
80	1-Nov-13	11	8	\$36.24	Yes	\$44.45	\$8.21
81	1-Nov-13	11	9	\$39.73	Yes	\$44.45	\$4.72
82	1-Nov-13	11	10	\$40.60	Yes	\$44.45	\$3.85
83	1-Nov-13	11	11	\$40.60	Yes	\$44.45	\$3.85

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84	1-Nov-13	11	12	\$40.60	Yes	\$44.45	\$3.85
85	1-Nov-13	12	1	\$40.74	Yes	\$44.45	\$3.71
86	1-Nov-13	12	2	\$40.98	Yes	\$44.45	\$3.47
87	1-Nov-13	12	3	\$40.98	Yes	\$44.45	\$3.47
88	1-Nov-13	12	4	\$44.46	Yes	\$44.45	(\$0.01)
89	1-Nov-13	12	5	\$44.41	Yes	\$44.45	\$0.04
90	1-Nov-13	12	6	\$44.46	Yes	\$44.45	(\$0.01)
91	1-Nov-13	12	7	\$44.45	Yes	\$44.45	\$0.00
92	1-Nov-13	12	8	\$44.46	Yes	\$44.45	(\$0.01)
93	1-Nov-13	12	9	\$44.45	Yes	\$44.45	\$0.00
94	1-Nov-13	12	10	\$43.54	Yes	\$44.45	\$0.91
95	1-Nov-13	12	11	\$44.45	Yes	\$44.45	\$0.00
96	1-Nov-13	12	12	\$44.45	Yes	\$44.45	\$0.00
97	1-Nov-13	13	1	\$47.30	Yes	\$44.45	(\$2.85)
98	1-Nov-13	13	2	\$45.71	Yes	\$44.45	(\$1.26)
99	1-Nov-13	13	3	\$45.10	Yes	\$44.45	(\$0.65)
100	1-Nov-13	13	4	\$43.69	Yes	\$44.45	\$0.76
101	1-Nov-13	13	5	\$44.45	Yes	\$44.45	\$0.00
102	1-Nov-13	13	6	\$44.46	Yes	\$44.45	(\$0.01)
103	1-Nov-13	13	7	\$48.19	Yes	\$44.45	(\$3.74)
104	1-Nov-13	13	8	\$48.19	Yes	\$44.45	(\$3.74)
105	1-Nov-13	13	9	\$48.19	Yes	\$44.45	(\$3.74)
106	1-Nov-13	13	10	\$50.09	Yes	\$44.45	(\$5.64)
107	1-Nov-13	13	11	\$46.37	Yes	\$44.45	(\$1.92)
108	1-Nov-13	13	12	\$46.37	Yes	\$44.45	(\$1.92)
109	1-Nov-13	14	1	\$46.21	Yes	\$44.45	(\$1.76)
110	1-Nov-13	14	2	\$44.45	Yes	\$44.45	\$0.00
111	1-Nov-13	14	3	\$44.27	Yes	\$44.45	\$0.18
112	1-Nov-13	14	4	\$44.16	Yes	\$44.45	\$0.29
113	1-Nov-13	14	5	\$45.95	Yes	\$44.45	(\$1.50)
114	1-Nov-13	14	6	\$46.25	Yes	\$44.45	(\$1.80)
115	1-Nov-13	14	7	\$46.40	Yes	\$44.45	(\$1.95)
116	1-Nov-13	14	8	\$46.40	Yes	\$44.45	(\$1.95)
117	1-Nov-13	14	9	\$46.34	Yes	\$44.45	(\$1.89)
118	1-Nov-13	14	10	\$46.37	Yes	\$44.45	(\$1.92)
119	1-Nov-13	14	11	\$45.47	Yes	\$44.45	(\$1.02)
120	1-Nov-13	14	12	\$45.47	Yes	\$44.45	(\$1.02)
121	1-Nov-13	15	1	\$43.04	Yes	\$44.45	\$1.41
122	1-Nov-13	15	2	\$41.09	Yes	\$44.45	\$3.36
123	1-Nov-13	15	3	\$40.77	Yes	\$44.45	\$3.68
124	1-Nov-13	15	4	\$41.12	Yes	\$44.45	\$3.33
125	1-Nov-13	15	5	\$42.73	Yes	\$44.45	\$1.72
126	1-Nov-13	15	6	\$44.18	Yes	\$44.45	\$0.27

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127	1-Nov-13	15	7	\$44.51	Yes	\$44.45	(\$0.06)
128	1-Nov-13	15	8	\$44.90	Yes	\$44.45	(\$0.45)
129	1-Nov-13	15	9	\$47.21	Yes	\$44.45	(\$2.76)
130	1-Nov-13	15	10	\$46.48	Yes	\$44.45	(\$2.03)
131	1-Nov-13	15	11	\$46.48	Yes	\$44.45	(\$2.03)
132	1-Nov-13	15	12	\$46.48	Yes	\$44.45	(\$2.03)
133	1-Nov-13	16	1	\$46.45	Yes	\$44.45	(\$2.00)
134	1-Nov-13	16	2	\$42.84	Yes	\$44.45	\$1.61
135	1-Nov-13	16	3	\$44.37	Yes	\$44.45	\$0.08
136	1-Nov-13	16	4	\$46.63	Yes	\$44.45	(\$2.18)
137	1-Nov-13	16	5	\$49.14	Yes	\$44.45	(\$4.69)
138	1-Nov-13	16	6	\$47.36	Yes	\$44.45	(\$2.91)
139	1-Nov-13	16	7	\$46.80	Yes	\$44.45	(\$2.35)
140	1-Nov-13	16	8	\$46.79	Yes	\$44.45	(\$2.34)
141	1-Nov-13	16	9	\$46.82	Yes	\$44.45	(\$2.37)
142	1-Nov-13	16	10	\$44.46	Yes	\$44.45	(\$0.01)
143	1-Nov-13	16	11	\$46.94	Yes	\$44.45	(\$2.49)
144	1-Nov-13	16	12	\$47.17	Yes	\$44.45	(\$2.72)
145	1-Nov-13	17	1	\$34.02	Yes	\$44.45	\$10.43
146	1-Nov-13	17	2	\$36.45	Yes	\$44.45	\$8.00
147	1-Nov-13	17	3	\$42.03	Yes	\$44.45	\$2.42
148	1-Nov-13	17	4	\$44.30	Yes	\$44.45	\$0.15
149	1-Nov-13	17	5	\$44.45	Yes	\$44.45	\$0.00
150	1-Nov-13	17	6	\$44.47	Yes	\$44.45	(\$0.02)
151	1-Nov-13	17	7	\$128.96	Yes	\$44.45	(\$84.51)
152	1-Nov-13	17	8	\$42.59	Yes	\$44.45	\$1.86
153	1-Nov-13	17	9	\$45.48	Yes	\$44.45	(\$1.03)
154	1-Nov-13	17	10	\$45.48	Yes	\$44.45	(\$1.03)
155	1-Nov-13	17	11	\$45.48	Yes	\$44.45	(\$1.03)
156	1-Nov-13	17	12	\$45.48	Yes	\$44.45	(\$1.03)
157	1-Nov-13	18	1	\$36.45	Yes	\$44.45	\$8.00
158	1-Nov-13	18	2	\$41.10	Yes	\$44.45	\$3.35
159	1-Nov-13	18	3	\$42.22	Yes	\$44.45	\$2.23
160	1-Nov-13	18	4	\$42.81	Yes	\$44.45	\$1.64
161	1-Nov-13	18	5	\$42.81	Yes	\$44.45	\$1.64
162	1-Nov-13	18	6	\$39.66	Yes	\$44.45	\$4.79
163	1-Nov-13	18	7	\$81.33	Yes	\$44.45	(\$36.88)
164	1-Nov-13	18	8	\$54.08	Yes	\$44.45	(\$9.63)
165	1-Nov-13	18	9	\$52.85	Yes	\$44.45	(\$8.40)
166	1-Nov-13	18	10	\$35.09	Yes	\$44.45	\$9.36
167	1-Nov-13	18	11	\$50.06	Yes	\$44.45	(\$5.61)
168	1-Nov-13	18	12	\$52.76	Yes	\$44.45	(\$8.31)
169	1-Nov-13	19	1	\$41.19	Yes	\$44.45	\$3.26

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170	1-Nov-13	19	2	\$42.69	Yes	\$44.45	\$1.76
171	1-Nov-13	19	3	\$42.78	Yes	\$44.45	\$1.67
172	1-Nov-13	19	4	\$43.06	Yes	\$44.45	\$1.39
173	1-Nov-13	19	5	\$46.95	Yes	\$44.45	(\$2.50)
174	1-Nov-13	19	6	\$51.39	Yes	\$44.45	(\$6.94)
175	1-Nov-13	19	7	\$48.12	Yes	\$44.45	(\$3.67)
176	1-Nov-13	19	8	\$50.37	Yes	\$44.45	(\$5.92)
177	1-Nov-13	19	9	\$49.15	Yes	\$44.45	(\$4.70)
178	1-Nov-13	19	10	\$50.67	Yes	\$44.45	(\$6.22)
179	1-Nov-13	19	11	\$52.58	Yes	\$44.45	(\$8.13)
180	1-Nov-13	19	12	\$42.19	Yes	\$44.45	\$2.26
181	1-Nov-13	20	1	\$47.57	Yes	\$44.45	(\$3.12)
182	1-Nov-13	20	2	\$1,061.96	Yes	\$44.45	(\$1,017.51)
183	1-Nov-13	20	3	\$502.72	Yes	\$44.45	(\$458.27)
184	1-Nov-13	20	4	\$41.64	Yes	\$44.45	\$2.81
185	1-Nov-13	20	5	\$47.82	Yes	\$44.45	(\$3.37)
186	1-Nov-13	20	6	\$48.91	Yes	\$44.45	(\$4.46)
187	1-Nov-13	20	7	\$1,060.47	Yes	\$44.45	(\$1,016.02)
188	1-Nov-13	20	8	\$52.94	Yes	\$44.45	(\$8.49)
189	1-Nov-13	20	9	\$52.94	Yes	\$44.45	(\$8.49)
190	1-Nov-13	20	10	\$44.46	Yes	\$44.45	(\$0.01)
191	1-Nov-13	20	11	\$40.66	Yes	\$44.45	\$3.79
192	1-Nov-13	20	12	\$39.74	Yes	\$44.45	\$4.71
193	1-Nov-13	21	1	\$53.16	Yes	\$44.45	(\$8.71)
194	1-Nov-13	21	2	\$50.83	Yes	\$44.45	(\$6.38)
195	1-Nov-13	21	3	\$52.29	Yes	\$44.45	(\$7.84)
196	1-Nov-13	21	4	\$50.31	Yes	\$44.45	(\$5.86)
197	1-Nov-13	21	5	\$45.96	Yes	\$44.45	(\$1.51)
198	1-Nov-13	21	6	\$47.73	Yes	\$44.45	(\$3.28)
199	1-Nov-13	21	7	\$49.45	Yes	\$44.45	(\$5.00)
200	1-Nov-13	21	8	\$46.05	Yes	\$44.45	(\$1.60)
201	1-Nov-13	21	9	\$44.46	Yes	\$44.45	(\$0.01)
202	1-Nov-13	21	10	\$46.21	Yes	\$44.45	(\$1.76)
203	1-Nov-13	21	11	\$42.60	Yes	\$44.45	\$1.85
204	1-Nov-13	21	12	\$40.27	Yes	\$44.45	\$4.18
205	1-Nov-13	22	1	\$52.22	Yes	\$44.45	(\$7.77)
206	1-Nov-13	22	2	\$46.63	Yes	\$44.45	(\$2.18)
207	1-Nov-13	22	3	\$48.62	Yes	\$44.45	(\$4.17)
208	1-Nov-13	22	4	\$44.82	Yes	\$44.45	(\$0.37)
209	1-Nov-13	22	5	\$46.13	Yes	\$44.45	(\$1.68)
210	1-Nov-13	22	6	\$40.34	Yes	\$44.45	\$4.11
211	1-Nov-13	22	7	\$40.45	Yes	\$44.45	\$4.00
212	1-Nov-13	22	8	\$40.29	Yes	\$44.45	\$4.16

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213	1-Nov-13	22	9	\$40.29	Yes	\$44.45	\$4.16
214	1-Nov-13	22	10	\$38.37	Yes	\$44.45	\$6.08
215	1-Nov-13	22	11	\$38.36	Yes	\$44.45	\$6.09
216	1-Nov-13	22	12	\$34.40	Yes	\$44.45	\$10.05
217	1-Nov-13	23	1	\$46.36	Yes	\$44.45	(\$1.91)
218	1-Nov-13	23	2	\$40.31	Yes	\$44.45	\$4.14
219	1-Nov-13	23	3	\$46.43	Yes	\$44.45	(\$1.98)
220	1-Nov-13	23	4	\$46.43	Yes	\$44.45	(\$1.98)
221	1-Nov-13	23	5	\$45.52	Yes	\$44.45	(\$1.07)
222	1-Nov-13	23	6	\$44.94	Yes	\$44.45	(\$0.49)
223	1-Nov-13	23	7	\$38.82	Yes	\$44.45	\$5.63
224	1-Nov-13	23	8	\$40.49	Yes	\$44.45	\$3.96
225	1-Nov-13	23	9	\$38.62	Yes	\$44.45	\$5.83
226	1-Nov-13	23	10	\$35.94	Yes	\$44.45	\$8.51
227	1-Nov-13	23	11	\$35.91	Yes	\$44.45	\$8.54
228	1-Nov-13	23	12	\$33.44	Yes	\$44.45	\$11.01
229	1-Nov-13	24	1	\$36.79	Yes	\$44.45	\$7.66
230	1-Nov-13	24	2	\$37.27	Yes	\$44.45	\$7.18
231	1-Nov-13	24	3	\$43.06	Yes	\$44.45	\$1.39
232	1-Nov-13	24	4	\$53.57	Yes	\$44.45	(\$9.12)
233	1-Nov-13	24	5	\$47.11	Yes	\$44.45	(\$2.66)
234	1-Nov-13	24	6	\$47.11	Yes	\$44.45	(\$2.66)
235	1-Nov-13	24	7	\$39.92	Yes	\$44.45	\$4.53
236	1-Nov-13	24	8	\$39.92	Yes	\$44.45	\$4.53
237	1-Nov-13	24	9	\$38.33	Yes	\$44.45	\$6.12
238	1-Nov-13	24	10	\$38.36	Yes	\$44.45	\$6.09
239	1-Nov-13	24	11	\$38.36	Yes	\$44.45	\$6.09
240	1-Nov-13	24	12	\$38.36	Yes	\$44.45	\$6.09
241	3-Nov-13	1	1	\$30.83	Yes	\$42.23	\$11.40
242	3-Nov-13	1	2	\$30.82	Yes	\$42.23	\$11.41
243	3-Nov-13	1	3	\$31.60	Yes	\$42.23	\$10.63
244	3-Nov-13	1	4	\$31.60	Yes	\$42.23	\$10.63
245	3-Nov-13	1	5	\$31.42	Yes	\$42.23	\$10.81
246	3-Nov-13	1	6	\$30.08	Yes	\$42.23	\$12.15
247	3-Nov-13	1	7	\$29.56	Yes	\$42.23	\$12.67
248	3-Nov-13	1	8	\$29.81	Yes	\$42.23	\$12.42
249	3-Nov-13	1	9	\$30.84	Yes	\$42.23	\$11.39
250	3-Nov-13	1	10	\$30.82	Yes	\$42.23	\$11.41
251	3-Nov-13	1	11	\$30.07	Yes	\$42.23	\$12.16
252	3-Nov-13	1	12	\$26.92	Yes	\$42.23	\$15.31
253	3-Nov-13	2	1	\$29.08	Yes	\$42.23	\$13.15
254	3-Nov-13	2	2	\$14.39	Yes	\$42.23	\$27.84
255	3-Nov-13	2	3	\$18.42	Yes	\$42.23	\$23.81

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256	3-Nov-13	2	4	\$18.35	Yes	\$42.23	\$23.88
257	3-Nov-13	2	5	\$18.35	Yes	\$42.23	\$23.88
258	3-Nov-13	2	6	\$28.24	Yes	\$42.23	\$13.99
259	3-Nov-13	2	7	\$25.20	Yes	\$42.23	\$17.03
260	3-Nov-13	2	8	\$25.20	Yes	\$42.23	\$17.03
261	3-Nov-13	2	9	\$28.89	Yes	\$42.23	\$13.34
262	3-Nov-13	2	10	\$28.93	Yes	\$42.23	\$13.30
263	3-Nov-13	2	11	\$28.93	Yes	\$42.23	\$13.30
264	3-Nov-13	2	12	\$25.21	Yes	\$42.23	\$17.02
265	3-Nov-13	3	1	\$28.88	Yes	\$42.23	\$13.35
266	3-Nov-13	3	2	\$28.68	Yes	\$42.23	\$13.55
267	3-Nov-13	3	3	\$28.88	Yes	\$42.23	\$13.35
268	3-Nov-13	3	4	(\$32.58)	Yes	\$42.23	\$74.81
269	3-Nov-13	3	5	(\$30.45)	Yes	\$42.23	\$72.68
270	3-Nov-13	3	6	(\$34.83)	Yes	\$42.23	\$77.06
271	3-Nov-13	3	7	(\$32.33)	Yes	\$42.23	\$74.56
272	3-Nov-13	3	8	(\$32.29)	Yes	\$42.23	\$74.52
273	3-Nov-13	3	9	(\$34.32)	Yes	\$42.23	\$76.55
274	3-Nov-13	3	10	(\$30.50)	Yes	\$42.23	\$72.73
275	3-Nov-13	3	11	(\$30.50)	Yes	\$42.23	\$72.73
276	3-Nov-13	3	12	(\$30.51)	Yes	\$42.23	\$72.74
277	3-Nov-13	4	1	(\$30.25)	Yes	\$42.23	\$72.48
278	3-Nov-13	4	2	(\$29.90)	Yes	\$42.23	\$72.13
279	3-Nov-13	4	3	\$29.07	Yes	\$42.23	\$13.16
280	3-Nov-13	4	4	\$28.79	Yes	\$42.23	\$13.44
281	3-Nov-13	4	5	\$27.84	Yes	\$42.23	\$14.39
282	3-Nov-13	4	6	(\$32.33)	Yes	\$42.23	\$74.56
283	3-Nov-13	4	7	(\$29.66)	Yes	\$42.23	\$71.89
284	3-Nov-13	4	8	(\$29.65)	Yes	\$42.23	\$71.88
285	3-Nov-13	4	9	\$26.59	Yes	\$42.23	\$15.64
286	3-Nov-13	4	10	(\$29.71)	Yes	\$42.23	\$71.94
287	3-Nov-13	4	11	(\$29.83)	Yes	\$42.23	\$72.06
288	3-Nov-13	4	12	(\$30.97)	Yes	\$42.23	\$73.20
289	3-Nov-13	5	1	(\$32.05)	Yes	\$42.23	\$74.28
290	3-Nov-13	5	2	(\$30.34)	Yes	\$42.23	\$72.57
291	3-Nov-13	5	3	(\$29.98)	Yes	\$42.23	\$72.21
292	3-Nov-13	5	4	\$4.99	Yes	\$42.23	\$37.24
293	3-Nov-13	5	5	\$20.15	Yes	\$42.23	\$22.08
294	3-Nov-13	5	6	\$15.09	Yes	\$42.23	\$27.14
295	3-Nov-13	5	7	(\$30.31)	Yes	\$42.23	\$72.54
296	3-Nov-13	5	8	(\$30.37)	Yes	\$42.23	\$72.60
297	3-Nov-13	5	9	(\$30.30)	Yes	\$42.23	\$72.53
298	3-Nov-13	5	10	(\$31.90)	Yes	\$42.23	\$74.13

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299	3-Nov-13	5	11	(\$29.92)	Yes	\$42.23	\$72.15
300	3-Nov-13	5	12	\$5.03	Yes	\$42.23	\$37.20
301	3-Nov-13	6	1	\$22.92	Yes	\$42.23	\$19.31
302	3-Nov-13	6	2	\$23.43	Yes	\$42.23	\$18.80
303	3-Nov-13	6	3	\$24.72	Yes	\$42.23	\$17.51
304	3-Nov-13	6	4	\$28.47	Yes	\$42.23	\$13.76
305	3-Nov-13	6	5	\$28.67	Yes	\$42.23	\$13.56
306	3-Nov-13	6	6	\$28.67	Yes	\$42.23	\$13.56
307	3-Nov-13	6	7	\$29.10	Yes	\$42.23	\$13.13
308	3-Nov-13	6	8	\$29.10	Yes	\$42.23	\$13.13
309	3-Nov-13	6	9	\$29.10	Yes	\$42.23	\$13.13
310	3-Nov-13	6	10	\$30.35	Yes	\$42.23	\$11.88
311	3-Nov-13	6	11	\$30.67	Yes	\$42.23	\$11.57
312	3-Nov-13	6	12	\$31.49	Yes	\$42.23	\$10.74
313	3-Nov-13	7	1	\$30.22	Yes	\$42.23	\$12.01
314	3-Nov-13	7	2	\$30.22	Yes	\$42.23	\$12.01
315	3-Nov-13	7	3	\$28.73	Yes	\$42.23	\$13.50
316	3-Nov-13	7	4	\$28.93	Yes	\$42.23	\$13.30
317	3-Nov-13	7	5	\$28.93	Yes	\$42.23	\$13.30
318	3-Nov-13	7	6	\$29.84	Yes	\$42.23	\$12.39
319	3-Nov-13	7	7	\$30.00	Yes	\$42.23	\$12.23
320	3-Nov-13	7	8	\$30.10	Yes	\$42.23	\$12.13
321	3-Nov-13	7	9	\$30.10	Yes	\$42.23	\$12.13
322	3-Nov-13	7	10	\$30.38	Yes	\$42.23	\$11.85
323	3-Nov-13	7	11	\$30.75	Yes	\$42.23	\$11.48
324	3-Nov-13	7	12	\$32.56	Yes	\$42.23	\$9.67
325	3-Nov-13	8	1	\$31.51	Yes	\$42.23	\$10.72
326	3-Nov-13	8	2	\$31.36	Yes	\$42.23	\$10.87
327	3-Nov-13	8	3	\$31.11	Yes	\$42.23	\$11.12
328	3-Nov-13	8	4	\$30.75	Yes	\$42.23	\$11.48
329	3-Nov-13	8	5	\$30.79	Yes	\$42.23	\$11.44
330	3-Nov-13	8	6	\$30.50	Yes	\$42.23	\$11.73
331	3-Nov-13	8	7	\$30.82	Yes	\$42.23	\$11.41
332	3-Nov-13	8	8	\$30.87	Yes	\$42.23	\$11.36
333	3-Nov-13	8	9	\$30.87	Yes	\$42.23	\$11.36
334	3-Nov-13	8	10	\$31.36	Yes	\$42.23	\$10.87
335	3-Nov-13	8	11	\$31.11	Yes	\$42.23	\$11.12
336	3-Nov-13	8	12	\$30.86	Yes	\$42.23	\$11.37
337	3-Nov-13	9	1	\$29.21	Yes	\$42.23	\$13.02
338	3-Nov-13	9	2	\$28.83	Yes	\$42.23	\$13.40
339	3-Nov-13	9	3	\$28.36	Yes	\$42.23	\$13.87
340	3-Nov-13	9	4	\$28.37	Yes	\$42.23	\$13.86
341	3-Nov-13	9	5	\$26.77	Yes	\$42.23	\$15.46

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342	3-Nov-13	9	6	\$25.15	Yes	\$42.23	\$17.08
343	3-Nov-13	9	7	(\$76.19)	Yes	\$42.23	\$118.42
344	3-Nov-13	9	8	\$12.89	Yes	\$42.23	\$29.34
345	3-Nov-13	9	9	(\$79.56)	Yes	\$42.23	\$121.79
346	3-Nov-13	9	10	(\$30.27)	Yes	\$42.23	\$72.50
347	3-Nov-13	9	11	(\$30.23)	Yes	\$42.23	\$72.46
348	3-Nov-13	9	12	(\$30.31)	Yes	\$42.23	\$72.54
349	3-Nov-13	10	1	(\$74.79)	Yes	\$42.23	\$117.02
350	3-Nov-13	10	2	(\$64.68)	Yes	\$42.23	\$106.91
351	3-Nov-13	10	3	(\$31.00)	Yes	\$42.23	\$73.23
352	3-Nov-13	10	4	(\$31.01)	Yes	\$42.23	\$73.24
353	3-Nov-13	10	5	(\$31.67)	Yes	\$42.23	\$73.90
354	3-Nov-13	10	6	(\$31.70)	Yes	\$42.23	\$73.93
355	3-Nov-13	10	7	(\$31.70)	Yes	\$42.23	\$73.93
356	3-Nov-13	10	8	(\$31.73)	Yes	\$42.23	\$73.96
357	3-Nov-13	10	9	(\$31.73)	Yes	\$42.23	\$73.96
358	3-Nov-13	10	10	(\$31.72)	Yes	\$42.23	\$73.95
359	3-Nov-13	10	11	(\$31.72)	Yes	\$42.23	\$73.95
360	3-Nov-13	10	12	(\$34.49)	Yes	\$42.23	\$76.72
361	3-Nov-13	11	1	(\$31.59)	Yes	\$42.23	\$73.82
362	3-Nov-13	11	2	(\$31.59)	Yes	\$42.23	\$73.82
363	3-Nov-13	11	3	(\$31.59)	Yes	\$42.23	\$73.82
364	3-Nov-13	11	4	(\$31.69)	Yes	\$42.23	\$73.92
365	3-Nov-13	11	5	(\$31.69)	Yes	\$42.23	\$73.92
366	3-Nov-13	11	6	(\$31.72)	Yes	\$42.23	\$73.95
367	3-Nov-13	11	7	(\$31.75)	Yes	\$42.23	\$73.98
368	3-Nov-13	11	8	(\$31.75)	Yes	\$42.23	\$73.98
369	3-Nov-13	11	9	(\$31.75)	Yes	\$42.23	\$73.98
370	3-Nov-13	11	10	(\$31.72)	Yes	\$42.23	\$73.95
371	3-Nov-13	11	11	(\$31.72)	Yes	\$42.23	\$73.95
372	3-Nov-13	11	12	(\$31.72)	Yes	\$42.23	\$73.95
373	3-Nov-13	12	1	(\$31.67)	Yes	\$42.23	\$73.90
374	3-Nov-13	12	2	(\$31.67)	Yes	\$42.23	\$73.90
375	3-Nov-13	12	3	(\$31.67)	Yes	\$42.23	\$73.90
376	3-Nov-13	12	4	(\$31.21)	Yes	\$42.23	\$73.44
377	3-Nov-13	12	5	(\$29.54)	Yes	\$42.23	\$71.77
378	3-Nov-13	12	6	(\$30.18)	Yes	\$42.23	\$72.41
379	3-Nov-13	12	7	(\$29.62)	Yes	\$42.23	\$71.85
380	3-Nov-13	12	8	\$23.15	Yes	\$42.23	\$19.08
381	3-Nov-13	12	9	\$23.56	Yes	\$42.23	\$18.67
382	3-Nov-13	12	10	\$28.74	Yes	\$42.23	\$13.49
383	3-Nov-13	12	11	\$29.59	Yes	\$42.23	\$12.64
384	3-Nov-13	12	12	\$31.21	Yes	\$42.23	\$11.02

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385	3-Nov-13	13	1	\$27.93	Yes	\$42.23	\$14.30
386	3-Nov-13	13	2	\$18.90	Yes	\$42.23	\$23.33
387	3-Nov-13	13	3	\$28.83	Yes	\$42.23	\$13.40
388	3-Nov-13	13	4	\$25.87	Yes	\$42.23	\$16.36
389	3-Nov-13	13	5	\$25.87	Yes	\$42.23	\$16.36
390	3-Nov-13	13	6	\$28.88	Yes	\$42.23	\$13.35
391	3-Nov-13	13	7	\$29.06	Yes	\$42.23	\$13.17
392	3-Nov-13	13	8	\$30.74	Yes	\$42.23	\$11.49
393	3-Nov-13	13	9	\$29.96	Yes	\$42.23	\$12.27
394	3-Nov-13	13	10	\$29.97	Yes	\$42.23	\$12.26
395	3-Nov-13	13	11	\$30.06	Yes	\$42.23	\$12.17
396	3-Nov-13	13	12	\$28.93	Yes	\$42.23	\$13.30
397	3-Nov-13	14	1	(\$34.70)	Yes	\$42.23	\$76.93
398	3-Nov-13	14	2	(\$34.70)	Yes	\$42.23	\$76.93
399	3-Nov-13	14	3	(\$31.19)	Yes	\$42.23	\$73.42
400	3-Nov-13	14	4	(\$29.92)	Yes	\$42.23	\$72.15
401	3-Nov-13	14	5	\$5.01	Yes	\$42.23	\$37.22
402	3-Nov-13	14	6	\$29.27	Yes	\$42.23	\$12.96
403	3-Nov-13	14	7	\$29.34	Yes	\$42.23	\$12.89
404	3-Nov-13	14	8	\$29.74	Yes	\$42.23	\$12.49
405	3-Nov-13	14	9	\$28.97	Yes	\$42.23	\$13.26
406	3-Nov-13	14	10	\$29.18	Yes	\$42.23	\$13.05
407	3-Nov-13	14	11	\$29.08	Yes	\$42.23	\$13.15
408	3-Nov-13	14	12	\$29.07	Yes	\$42.23	\$13.16
409	3-Nov-13	15	1	(\$31.39)	Yes	\$42.23	\$73.62
410	3-Nov-13	15	2	(\$31.44)	Yes	\$42.23	\$73.67
411	3-Nov-13	15	3	(\$34.72)	Yes	\$42.23	\$76.95
412	3-Nov-13	15	4	\$7.79	Yes	\$42.23	\$34.44
413	3-Nov-13	15	5	\$25.44	Yes	\$42.23	\$16.79
414	3-Nov-13	15	6	\$25.18	Yes	\$42.23	\$17.05
415	3-Nov-13	15	7	\$23.24	Yes	\$42.23	\$18.99
416	3-Nov-13	15	8	\$23.23	Yes	\$42.23	\$19.00
417	3-Nov-13	15	9	\$28.78	Yes	\$42.23	\$13.45
418	3-Nov-13	15	10	\$19.86	Yes	\$42.23	\$22.37
419	3-Nov-13	15	11	\$29.61	Yes	\$42.23	\$12.62
420	3-Nov-13	15	12	\$29.97	Yes	\$42.23	\$12.26
421	3-Nov-13	16	1	(\$22.68)	Yes	\$42.23	\$64.91
422	3-Nov-13	16	2	(\$31.47)	Yes	\$42.23	\$73.70
423	3-Nov-13	16	3	(\$34.78)	Yes	\$42.23	\$77.01
424	3-Nov-13	16	4	(\$30.93)	Yes	\$42.23	\$73.16
425	3-Nov-13	16	5	(\$29.51)	Yes	\$42.23	\$71.74
426	3-Nov-13	16	6	\$3.67	Yes	\$42.23	\$38.56
427	3-Nov-13	16	7	\$29.04	Yes	\$42.23	\$13.19

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428	3-Nov-13	16	8	\$30.04	Yes	\$42.23	\$12.19
429	3-Nov-13	16	9	\$31.41	Yes	\$42.23	\$10.82
430	3-Nov-13	16	10	\$31.40	Yes	\$42.23	\$10.83
431	3-Nov-13	16	11	\$31.38	Yes	\$42.23	\$10.85
432	3-Nov-13	16	12	\$33.11	Yes	\$42.23	\$9.12
433	3-Nov-13	17	1	\$29.42	Yes	\$42.23	\$12.81
434	3-Nov-13	17	2	\$23.16	Yes	\$42.23	\$19.07
435	3-Nov-13	17	3	\$26.88	Yes	\$42.23	\$15.35
436	3-Nov-13	17	4	\$28.74	Yes	\$42.23	\$13.49
437	3-Nov-13	17	5	\$30.13	Yes	\$42.23	\$12.10
438	3-Nov-13	17	6	\$32.63	Yes	\$42.23	\$9.60
439	3-Nov-13	17	7	\$34.82	Yes	\$42.23	\$7.41
440	3-Nov-13	17	8	\$34.82	Yes	\$42.23	\$7.41
441	3-Nov-13	17	9	\$54.14	Yes	\$42.23	(\$11.91)
442	3-Nov-13	17	10	\$54.32	Yes	\$42.23	(\$12.09)
443	3-Nov-13	17	11	\$61.86	Yes	\$42.23	(\$19.63)
444	3-Nov-13	17	12	\$68.04	Yes	\$42.23	(\$25.81)
445	3-Nov-13	18	1	\$33.56	Yes	\$42.23	\$8.67
446	3-Nov-13	18	2	\$31.46	Yes	\$42.23	\$10.77
447	3-Nov-13	18	3	\$31.46	Yes	\$42.23	\$10.77
448	3-Nov-13	18	4	\$32.29	Yes	\$42.23	\$9.94
449	3-Nov-13	18	5	\$35.02	Yes	\$42.23	\$7.21
450	3-Nov-13	18	6	\$39.75	Yes	\$42.23	\$2.48
451	3-Nov-13	18	7	\$41.06	Yes	\$42.23	\$1.17
452	3-Nov-13	18	8	\$47.48	Yes	\$42.23	(\$5.25)
453	3-Nov-13	18	9	\$51.11	Yes	\$42.23	(\$8.88)
454	3-Nov-13	18	10	\$40.37	Yes	\$42.23	\$1.86
455	3-Nov-13	18	11	\$62.87	Yes	\$42.23	(\$20.64)
456	3-Nov-13	18	12	\$37.93	Yes	\$42.23	\$4.30
457	3-Nov-13	19	1	\$32.91	Yes	\$42.23	\$9.32
458	3-Nov-13	19	2	\$31.78	Yes	\$42.23	\$10.45
459	3-Nov-13	19	3	\$32.47	Yes	\$42.23	\$9.76
460	3-Nov-13	19	4	\$32.96	Yes	\$42.23	\$9.27
461	3-Nov-13	19	5	\$37.37	Yes	\$42.23	\$4.86
462	3-Nov-13	19	6	\$62.93	Yes	\$42.23	(\$20.70)
463	3-Nov-13	19	7	\$52.17	Yes	\$42.23	(\$9.94)
464	3-Nov-13	19	8	\$32.13	Yes	\$42.23	\$10.10
465	3-Nov-13	19	9	\$39.42	Yes	\$42.23	\$2.81
466	3-Nov-13	19	10	\$63.68	Yes	\$42.23	(\$21.45)
467	3-Nov-13	19	11	\$63.68	Yes	\$42.23	(\$21.45)
468	3-Nov-13	19	12	\$69.39	Yes	\$42.23	(\$27.16)
469	3-Nov-13	20	1	\$38.57	Yes	\$42.23	\$3.66
470	3-Nov-13	20	2	\$64.37	Yes	\$42.23	(\$22.14)

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471	3-Nov-13	20	3	\$61.23	Yes	\$42.23	(\$19.00)
472	3-Nov-13	20	4	\$62.75	Yes	\$42.23	(\$20.52)
473	3-Nov-13	20	5	\$62.75	Yes	\$42.23	(\$20.52)
474	3-Nov-13	20	6	\$62.75	Yes	\$42.23	(\$20.52)
475	3-Nov-13	20	7	\$63.45	Yes	\$42.23	(\$21.22)
476	3-Nov-13	20	8	\$55.07	Yes	\$42.23	(\$12.84)
477	3-Nov-13	20	9	\$57.02	Yes	\$42.23	(\$14.79)
478	3-Nov-13	20	10	\$56.86	Yes	\$42.23	(\$14.63)
479	3-Nov-13	20	11	\$52.51	Yes	\$42.23	(\$10.28)
480	3-Nov-13	20	12	\$45.40	Yes	\$42.23	(\$3.17)
481	3-Nov-13	21	1	\$1,019.44	Yes	\$42.23	(\$977.21)
482	3-Nov-13	21	2	\$82.22	Yes	\$42.23	(\$39.99)
483	3-Nov-13	21	3	\$504.39	Yes	\$42.23	(\$462.16)
484	3-Nov-13	21	4	\$1,011.54	Yes	\$42.23	(\$969.31)
485	3-Nov-13	21	5	\$954.32	Yes	\$42.23	(\$912.09)
486	3-Nov-13	21	6	\$1,070.06	Yes	\$42.23	(\$1,027.83)
487	3-Nov-13	21	7	\$51.16	Yes	\$42.23	(\$8.93)
488	3-Nov-13	21	8	\$35.76	Yes	\$42.23	\$6.47
489	3-Nov-13	21	9	\$34.25	Yes	\$42.23	\$7.98
490	3-Nov-13	21	10	\$30.86	Yes	\$42.23	\$11.37
491	3-Nov-13	21	11	\$25.96	Yes	\$42.23	\$16.27
492	3-Nov-13	21	12	\$0.01	Yes	\$42.23	\$42.22
493	3-Nov-13	22	1	\$14.53	Yes	\$42.23	\$27.70
494	3-Nov-13	22	2	\$24.03	Yes	\$42.23	\$18.20
495	3-Nov-13	22	3	\$24.03	Yes	\$42.23	\$18.20
496	3-Nov-13	22	4	\$10.14	Yes	\$42.23	\$32.09
497	3-Nov-13	22	5	\$23.00	Yes	\$42.23	\$19.23
498	3-Nov-13	22	6	\$19.99	Yes	\$42.23	\$22.24
499	3-Nov-13	22	7	\$0.01	Yes	\$42.23	\$42.22
500	3-Nov-13	22	8	\$10.14	Yes	\$42.23	\$32.09
501	3-Nov-13	22	9	\$10.26	Yes	\$42.23	\$31.97
502	3-Nov-13	22	10	(\$0.78)	Yes	\$42.23	\$43.01
503	3-Nov-13	22	11	(\$0.78)	Yes	\$42.23	\$43.01
504	3-Nov-13	22	12	(\$0.78)	Yes	\$42.23	\$43.01
505	3-Nov-13	23	1	(\$0.78)	Yes	\$42.23	\$43.01
506	3-Nov-13	23	2	(\$0.78)	Yes	\$42.23	\$43.01
507	3-Nov-13	23	3	(\$0.78)	Yes	\$42.23	\$43.01
508	3-Nov-13	23	4	(\$0.78)	Yes	\$42.23	\$43.01
509	3-Nov-13	23	5	(\$0.78)	Yes	\$42.23	\$43.01
510	3-Nov-13	23	6	\$34.60	Yes	\$42.23	\$7.63
511	3-Nov-13	23	7	\$32.54	Yes	\$42.23	\$9.69
512	3-Nov-13	23	8	\$32.56	Yes	\$42.23	\$9.67
513	3-Nov-13	23	9	\$32.56	Yes	\$42.23	\$9.67

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514	3-Nov-13	23	10	\$29.92	Yes	\$42.23	\$12.31
515	3-Nov-13	23	11	\$29.57	Yes	\$42.23	\$12.66
516	3-Nov-13	23	12	\$29.57	Yes	\$42.23	\$12.66
517	3-Nov-13	24	1	\$33.87	Yes	\$42.23	\$8.36
518	3-Nov-13	24	2	\$31.58	Yes	\$42.23	\$10.65
519	3-Nov-13	24	3	\$34.74	Yes	\$42.23	\$7.49
520	3-Nov-13	24	4	\$35.66	Yes	\$42.23	\$6.57
521	3-Nov-13	24	5	\$34.50	Yes	\$42.23	\$7.73
522	3-Nov-13	24	6	\$31.80	Yes	\$42.23	\$10.43
523	3-Nov-13	24	7	\$31.56	Yes	\$42.23	\$10.67
524	3-Nov-13	24	8	\$31.55	Yes	\$42.23	\$10.68
525	3-Nov-13	24	9	\$29.45	Yes	\$42.23	\$12.78
526	3-Nov-13	24	10	\$29.64	Yes	\$42.23	\$12.59
527	3-Nov-13	24	11	\$28.88	Yes	\$42.23	\$13.35
528	3-Nov-13	24	12	\$9.32	Yes	\$42.23	\$32.91
529	13-Nov-13	11	1	\$40.73	Yes	\$44.82	\$4.09
530	13-Nov-13	11	2	\$33.51	Yes	\$44.82	\$11.31
531	13-Nov-13	11	3	\$36.88	Yes	\$44.82	\$7.94
532	13-Nov-13	11	4	\$36.83	Yes	\$44.82	\$7.99
533	13-Nov-13	11	5	\$41.84	Yes	\$44.82	\$2.98
534	13-Nov-13	11	6	\$46.59	Yes	\$44.82	(\$1.77)
535	13-Nov-13	11	7	\$37.72	Yes	\$44.82	\$7.10
536	13-Nov-13	11	8	\$39.15	Yes	\$44.82	\$5.67
537	13-Nov-13	11	9	\$40.50	Yes	\$44.82	\$4.32
538	13-Nov-13	11	10	\$37.74	Yes	\$44.82	\$7.08
539	13-Nov-13	11	11	\$37.72	Yes	\$44.82	\$7.10
540	13-Nov-13	11	12	\$39.42	Yes	\$44.82	\$5.40
541	13-Nov-13	12	1	\$40.35	Yes	\$44.82	\$4.47
542	13-Nov-13	12	2	\$42.47	Yes	\$44.82	\$2.35
543	13-Nov-13	12	3	\$42.01	Yes	\$44.82	\$2.81
544	13-Nov-13	12	4	\$41.83	Yes	\$44.82	\$2.99
545	13-Nov-13	12	5	\$40.65	Yes	\$44.82	\$4.17
546	13-Nov-13	12	6	\$40.21	Yes	\$44.82	\$4.61
547	13-Nov-13	12	7	\$40.26	Yes	\$44.82	\$4.56
548	13-Nov-13	12	8	\$40.70	Yes	\$44.82	\$4.12
549	13-Nov-13	12	9	\$42.04	Yes	\$44.82	\$2.78
550	13-Nov-13	12	10	\$42.49	Yes	\$44.82	\$2.33
551	13-Nov-13	12	11	\$40.68	Yes	\$44.82	\$4.14
552	13-Nov-13	12	12	\$23.04	Yes	\$44.82	\$21.78
553	13-Nov-13	13	1	\$40.68	Yes	\$44.82	\$4.14
554	13-Nov-13	13	2	\$51.54	Yes	\$44.82	(\$6.72)
555	13-Nov-13	13	3	\$53.49	Yes	\$44.82	(\$8.67)
556	13-Nov-13	13	4	\$56.63	Yes	\$44.82	(\$11.81)

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557	13-Nov-13	13	5	\$56.92	Yes	\$44.82	(\$12.10)
558	13-Nov-13	13	6	\$47.19	Yes	\$44.82	(\$2.37)
559	13-Nov-13	13	7	\$57.38	Yes	\$44.82	(\$12.56)
560	13-Nov-13	13	8	\$77.66	Yes	\$44.82	(\$32.84)
561	13-Nov-13	13	9	\$49.50	Yes	\$44.82	(\$4.68)
562	13-Nov-13	13	10	\$46.83	Yes	\$44.82	(\$2.01)
563	13-Nov-13	13	11	\$48.06	Yes	\$44.82	(\$3.24)
564	13-Nov-13	13	12	\$46.96	Yes	\$44.82	(\$2.14)
565	13-Nov-13	14	1	\$46.56	Yes	\$44.82	(\$1.74)
566	13-Nov-13	14	2	\$46.49	Yes	\$44.82	(\$1.67)
567	13-Nov-13	14	3	\$45.39	Yes	\$44.82	(\$0.57)
568	13-Nov-13	14	4	\$45.59	Yes	\$44.82	(\$0.77)
569	13-Nov-13	14	5	\$46.78	Yes	\$44.82	(\$1.96)
570	13-Nov-13	14	6	\$47.61	Yes	\$44.82	(\$2.79)
571	13-Nov-13	14	7	\$47.90	Yes	\$44.82	(\$3.08)
572	13-Nov-13	14	8	\$47.43	Yes	\$44.82	(\$2.61)
573	13-Nov-13	14	9	\$49.04	Yes	\$44.82	(\$4.22)
574	13-Nov-13	14	10	\$49.08	Yes	\$44.82	(\$4.26)
575	13-Nov-13	14	11	\$49.91	Yes	\$44.82	(\$5.09)
576	13-Nov-13	14	12	\$49.54	Yes	\$44.82	(\$4.72)
577	13-Nov-13	15	1	\$47.65	Yes	\$44.82	(\$2.83)
578	13-Nov-13	15	2	\$47.12	Yes	\$44.82	(\$2.30)
579	13-Nov-13	15	3	\$47.16	Yes	\$44.82	(\$2.34)
580	13-Nov-13	15	4	\$46.64	Yes	\$44.82	(\$1.82)
581	13-Nov-13	15	5	\$47.42	Yes	\$44.82	(\$2.60)
582	13-Nov-13	15	6	\$48.40	Yes	\$44.82	(\$3.58)
583	13-Nov-13	15	7	\$49.29	Yes	\$44.82	(\$4.47)
584	13-Nov-13	15	8	\$50.02	Yes	\$44.82	(\$5.20)
585	13-Nov-13	15	9	\$50.79	Yes	\$44.82	(\$5.97)
586	13-Nov-13	15	10	\$55.29	Yes	\$44.82	(\$10.47)
587	13-Nov-13	15	11	\$55.50	Yes	\$44.82	(\$10.68)
588	13-Nov-13	15	12	\$50.94	Yes	\$44.82	(\$6.12)
589	13-Nov-13	16	1	\$50.74	Yes	\$44.82	(\$5.92)
590	13-Nov-13	16	2	\$50.74	Yes	\$44.82	(\$5.92)
591	13-Nov-13	16	3	\$50.74	Yes	\$44.82	(\$5.92)
592	13-Nov-13	16	4	\$50.36	Yes	\$44.82	(\$5.54)
593	13-Nov-13	16	5	\$50.36	Yes	\$44.82	(\$5.54)
594	13-Nov-13	16	6	\$50.52	Yes	\$44.82	(\$5.70)
595	13-Nov-13	16	7	\$50.54	Yes	\$44.82	(\$5.72)
596	13-Nov-13	16	8	\$51.49	Yes	\$44.82	(\$6.67)
597	13-Nov-13	16	9	\$51.49	Yes	\$44.82	(\$6.67)
598	13-Nov-13	16	10	\$52.10	Yes	\$44.82	(\$7.28)
599	13-Nov-13	16	11	\$52.49	Yes	\$44.82	(\$7.67)

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600	13-Nov-13	16	12	\$84.94	Yes	\$44.82	(\$40.12)
601	13-Nov-13	17	1	\$2.83	No	\$44.82	\$41.99
602	13-Nov-13	17	2	\$13.24	No	\$44.82	\$31.58
603	13-Nov-13	17	3	\$4.72	No	\$44.82	\$40.10
604	13-Nov-13	17	4	(\$5.09)	No	\$44.82	\$49.91
605	13-Nov-13	17	5	\$45.41	No	\$44.82	(\$0.59)
606	13-Nov-13	17	6	\$46.58	No	\$44.82	(\$1.76)
607	13-Nov-13	17	7	\$39.87	No	\$44.82	\$4.95
608	13-Nov-13	17	8	\$40.30	No	\$44.82	\$4.52
609	13-Nov-13	17	9	\$41.58	No	\$44.82	\$3.24
610	13-Nov-13	17	10	\$42.24	No	\$44.82	\$2.58
611	13-Nov-13	17	11	\$44.00	No	\$44.82	\$0.82
612	13-Nov-13	17	12	\$46.91	No	\$44.82	(\$2.09)
613	13-Nov-13	18	1	\$44.91	No	\$44.82	(\$0.09)
614	13-Nov-13	18	2	\$47.84	No	\$44.82	(\$3.02)
615	13-Nov-13	18	3	\$45.66	No	\$44.82	(\$0.84)
616	13-Nov-13	18	4	\$44.84	No	\$44.82	(\$0.02)
617	13-Nov-13	18	5	\$46.66	No	\$44.82	(\$1.84)
618	13-Nov-13	18	6	\$47.75	No	\$44.82	(\$2.93)
619	13-Nov-13	18	7	\$47.18	No	\$44.82	(\$2.36)
620	13-Nov-13	18	8	\$47.59	No	\$44.82	(\$2.77)
621	13-Nov-13	18	9	\$47.59	No	\$44.82	(\$2.77)
622	13-Nov-13	18	10	\$48.19	No	\$44.82	(\$3.37)
623	13-Nov-13	18	11	\$47.30	No	\$44.82	(\$2.48)
624	13-Nov-13	18	12	\$46.14	No	\$44.82	(\$1.32)
625	13-Nov-13	19	1	\$53.35	Yes	\$44.82	(\$8.53)
626	13-Nov-13	19	2	\$50.46	Yes	\$44.82	(\$5.64)
627	13-Nov-13	19	3	\$55.06	Yes	\$44.82	(\$10.24)
628	13-Nov-13	19	4	\$53.44	Yes	\$44.82	(\$8.62)
629	13-Nov-13	19	5	\$50.82	Yes	\$44.82	(\$6.00)
630	13-Nov-13	19	6	\$50.82	Yes	\$44.82	(\$6.00)
631	13-Nov-13	19	7	\$48.67	Yes	\$44.82	(\$3.85)
632	13-Nov-13	19	8	\$50.06	Yes	\$44.82	(\$5.24)
633	13-Nov-13	19	9	\$50.18	Yes	\$44.82	(\$5.36)
634	13-Nov-13	19	10	\$50.62	Yes	\$44.82	(\$5.80)
635	13-Nov-13	19	11	\$48.25	Yes	\$44.82	(\$3.43)
636	13-Nov-13	19	12	\$48.25	Yes	\$44.82	(\$3.43)
637	13-Nov-13	20	1	\$52.91	Yes	\$44.82	(\$8.09)
638	13-Nov-13	20	2	\$69.34	Yes	\$44.82	(\$24.52)
639	13-Nov-13	20	3	\$127.89	Yes	\$44.82	(\$83.07)
640	13-Nov-13	20	4	\$410.28	Yes	\$44.82	(\$365.46)
641	13-Nov-13	20	5	\$188.41	Yes	\$44.82	(\$143.59)
642	13-Nov-13	20	6	\$401.14	Yes	\$44.82	(\$356.32)

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643	13-Nov-13	20	7	\$44.82	Yes	\$44.82	\$0.00
644	13-Nov-13	20	8	\$55.66	Yes	\$44.82	(\$10.84)
645	13-Nov-13	20	9	\$55.25	Yes	\$44.82	(\$10.43)
646	13-Nov-13	20	10	\$62.76	Yes	\$44.82	(\$17.94)
647	13-Nov-13	20	11	\$63.31	Yes	\$44.82	(\$18.49)
648	13-Nov-13	20	12	\$65.10	Yes	\$44.82	(\$20.28)
649	13-Nov-13	21	1	\$46.88	Yes	\$44.82	(\$2.06)
650	13-Nov-13	21	2	\$46.52	Yes	\$44.82	(\$1.70)
651	13-Nov-13	21	3	\$401.67	Yes	\$44.82	(\$356.85)
652	13-Nov-13	21	4	\$281.01	Yes	\$44.82	(\$236.19)
653	13-Nov-13	21	5	\$361.00	Yes	\$44.82	(\$316.18)
654	13-Nov-13	21	6	\$291.93	Yes	\$44.82	(\$247.11)
655	13-Nov-13	21	7	\$131.36	Yes	\$44.82	(\$86.54)
656	13-Nov-13	21	8	\$44.82	Yes	\$44.82	\$0.00
657	13-Nov-13	21	9	\$74.67	Yes	\$44.82	(\$29.85)
658	13-Nov-13	21	10	\$47.06	Yes	\$44.82	(\$2.24)
659	13-Nov-13	21	11	\$43.36	Yes	\$44.82	\$1.46
660	13-Nov-13	21	12	\$40.97	Yes	\$44.82	\$3.85
661	13-Nov-13	22	1	\$43.61	No	\$44.82	\$1.21
662	13-Nov-13	22	2	\$43.61	No	\$44.82	\$1.21
663	13-Nov-13	22	3	\$44.82	No	\$44.82	\$0.00
664	13-Nov-13	22	4	\$45.23	No	\$44.82	(\$0.41)
665	13-Nov-13	22	5	\$46.51	No	\$44.82	(\$1.69)
666	13-Nov-13	22	6	\$46.51	No	\$44.82	(\$1.69)
667	13-Nov-13	22	7	\$43.43	No	\$44.82	\$1.39
668	13-Nov-13	22	8	\$41.86	No	\$44.82	\$2.96
669	13-Nov-13	22	9	\$41.86	No	\$44.82	\$2.96
670	13-Nov-13	22	10	\$39.49	No	\$44.82	\$5.33
671	13-Nov-13	22	11	\$35.35	No	\$44.82	\$9.47
672	13-Nov-13	22	12	\$34.21	No	\$44.82	\$10.61
673	13-Nov-13	23	1	\$39.38	No	\$44.82	\$5.44
674	13-Nov-13	23	2	\$37.89	No	\$44.82	\$6.93
675	13-Nov-13	23	3	\$39.39	No	\$44.82	\$5.43
676	13-Nov-13	23	4	\$44.82	No	\$44.82	\$0.00
677	13-Nov-13	23	5	\$1,010.69	No	\$44.82	(\$965.87)
678	13-Nov-13	23	6	\$104.50	No	\$44.82	(\$59.68)
679	13-Nov-13	23	7	\$46.22	No	\$44.82	(\$1.40)
680	13-Nov-13	23	8	\$45.88	No	\$44.82	(\$1.06)
681	13-Nov-13	23	9	\$45.76	No	\$44.82	(\$0.94)
682	13-Nov-13	23	10	\$974.50	No	\$44.82	(\$929.68)
683	13-Nov-13	23	11	\$501.85	No	\$44.82	(\$457.03)
684	13-Nov-13	23	12	\$46.96	No	\$44.82	(\$2.14)
685	13-Nov-13	24	1	\$44.82	Yes	\$44.82	\$0.00

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686	13-Nov-13	24	2	\$43.28	Yes	\$44.82	\$1.54
687	13-Nov-13	24	3	\$49.08	Yes	\$44.82	(\$4.26)
688	13-Nov-13	24	4	\$45.86	Yes	\$44.82	(\$1.04)
689	13-Nov-13	24	5	\$45.86	Yes	\$44.82	(\$1.04)
690	13-Nov-13	24	6	\$46.59	Yes	\$44.82	(\$1.77)
691	13-Nov-13	24	7	\$44.82	Yes	\$44.82	\$0.00
692	13-Nov-13	24	8	\$43.29	Yes	\$44.82	\$1.53
693	13-Nov-13	24	9	\$45.82	Yes	\$44.82	(\$1.00)
694	13-Nov-13	24	10	\$45.86	Yes	\$44.82	(\$1.04)
695	13-Nov-13	24	11	\$45.86	Yes	\$44.82	(\$1.04)
696	13-Nov-13	24	12	\$45.82	Yes	\$44.82	(\$1.00)
697	14-Nov-13	6	9	\$30.56	Yes	\$44.73	\$14.17
698	14-Nov-13	6	10	\$30.93	Yes	\$44.73	\$13.80
699	14-Nov-13	6	11	\$32.09	Yes	\$44.73	\$12.64
700	14-Nov-13	6	12	\$32.09	Yes	\$44.73	\$12.64
701	14-Nov-13	7	1	\$31.96	Yes	\$44.73	\$12.77
702	14-Nov-13	7	2	\$32.34	Yes	\$44.73	\$12.39
703	14-Nov-13	7	3	\$32.67	Yes	\$44.73	\$12.06
704	14-Nov-13	7	4	\$32.63	Yes	\$44.73	\$12.10
705	14-Nov-13	7	5	\$33.06	Yes	\$44.73	\$11.67
706	14-Nov-13	7	6	\$33.48	Yes	\$44.73	\$11.25
707	14-Nov-13	7	7	\$34.02	Yes	\$44.73	\$10.71
708	14-Nov-13	7	8	\$33.89	Yes	\$44.73	\$10.84
709	14-Nov-13	7	9	\$35.59	Yes	\$44.73	\$9.14
710	14-Nov-13	7	10	\$35.64	Yes	\$44.73	\$9.09
711	14-Nov-13	7	11	\$35.49	Yes	\$44.73	\$9.24
712	14-Nov-13	7	12	\$35.79	Yes	\$44.73	\$8.94
713	14-Nov-13	8	1	\$44.05	Yes	\$44.73	\$0.68
714	14-Nov-13	8	2	\$46.74	Yes	\$44.73	(\$2.01)
715	14-Nov-13	8	3	\$46.38	Yes	\$44.73	(\$1.65)
716	14-Nov-13	8	4	\$40.09	Yes	\$44.73	\$4.64
717	14-Nov-13	8	5	\$42.45	Yes	\$44.73	\$2.28
718	14-Nov-13	8	6	\$43.24	Yes	\$44.73	\$1.49
719	14-Nov-13	8	7	\$40.20	Yes	\$44.73	\$4.53
720	14-Nov-13	8	8	\$38.43	Yes	\$44.73	\$6.30
721	14-Nov-13	8	9	\$37.67	Yes	\$44.73	\$7.06
722	14-Nov-13	8	10	\$35.60	Yes	\$44.73	\$9.13
723	14-Nov-13	8	11	\$35.57	Yes	\$44.73	\$9.16
724	14-Nov-13	8	12	\$35.60	Yes	\$44.73	\$9.13
725	14-Nov-13	9	1	\$33.32	No	\$44.73	\$11.41
726	14-Nov-13	9	2	\$33.65	No	\$44.73	\$11.08
727	14-Nov-13	9	3	\$33.88	No	\$44.73	\$10.85
728	14-Nov-13	9	4	\$34.18	No	\$44.73	\$10.55

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729	14-Nov-13	9	5	\$34.18	No	\$44.73	\$10.55
730	14-Nov-13	9	6	\$33.94	No	\$44.73	\$10.79
731	14-Nov-13	9	7	\$34.96	No	\$44.73	\$9.77
732	14-Nov-13	9	8	\$35.43	No	\$44.73	\$9.30
733	14-Nov-13	9	9	\$35.72	No	\$44.73	\$9.01
734	14-Nov-13	9	10	\$35.74	No	\$44.73	\$8.99
735	14-Nov-13	9	11	\$35.76	No	\$44.73	\$8.97
736	14-Nov-13	9	12	\$35.62	No	\$44.73	\$9.11
737	14-Nov-13	10	1	\$35.81	No	\$44.73	\$8.92
738	14-Nov-13	10	2	\$36.33	No	\$44.73	\$8.40
739	14-Nov-13	10	3	\$36.62	No	\$44.73	\$8.11
740	14-Nov-13	10	4	\$38.68	No	\$44.73	\$6.05
741	14-Nov-13	10	5	\$40.28	No	\$44.73	\$4.45
742	14-Nov-13	10	6	\$41.95	No	\$44.73	\$2.78
743	14-Nov-13	10	7	\$42.13	No	\$44.73	\$2.60
744	14-Nov-13	10	8	\$42.69	No	\$44.73	\$2.04
745	14-Nov-13	10	9	\$42.87	No	\$44.73	\$1.86
746	14-Nov-13	10	10	\$43.16	No	\$44.73	\$1.57
747	14-Nov-13	10	11	\$40.76	No	\$44.73	\$3.97
748	14-Nov-13	10	12	\$40.76	No	\$44.73	\$3.97
749	14-Nov-13	11	1	\$38.70	No	\$44.73	\$6.03
750	14-Nov-13	11	2	\$35.44	No	\$44.73	\$9.29
751	14-Nov-13	11	3	\$35.44	No	\$44.73	\$9.29
752	14-Nov-13	11	4	\$39.06	No	\$44.73	\$5.67
753	14-Nov-13	11	5	\$41.06	No	\$44.73	\$3.67
754	14-Nov-13	11	6	\$41.17	No	\$44.73	\$3.56
755	14-Nov-13	11	7	\$42.00	No	\$44.73	\$2.73
756	14-Nov-13	11	8	\$41.31	No	\$44.73	\$3.42
757	14-Nov-13	11	9	\$42.71	No	\$44.73	\$2.02
758	14-Nov-13	11	10	\$41.48	No	\$44.73	\$3.25
759	14-Nov-13	11	11	\$44.07	No	\$44.73	\$0.66
760	14-Nov-13	11	12	\$45.83	No	\$44.73	(\$1.10)
761	14-Nov-13	12	1	\$46.51	No	\$44.73	(\$1.78)
762	14-Nov-13	12	2	\$46.78	No	\$44.73	(\$2.05)
763	14-Nov-13	12	3	\$47.25	No	\$44.73	(\$2.52)
764	14-Nov-13	12	4	\$46.82	No	\$44.73	(\$2.09)
765	14-Nov-13	12	5	\$46.02	No	\$44.73	(\$1.29)
766	14-Nov-13	12	6	\$44.73	No	\$44.73	\$0.00
767	14-Nov-13	12	7	\$46.02	No	\$44.73	(\$1.29)
768	14-Nov-13	12	8	\$45.92	No	\$44.73	(\$1.19)
769	14-Nov-13	12	9	\$46.42	No	\$44.73	(\$1.69)
770	14-Nov-13	12	10	\$46.45	No	\$44.73	(\$1.72)
771	14-Nov-13	12	11	\$44.73	No	\$44.73	\$0.00

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772	14-Nov-13	12	12	\$46.43	No	\$44.73	(\$1.70)
773	14-Nov-13	13	1	\$45.53	No	\$44.73	(\$0.80)
774	14-Nov-13	13	2	\$45.80	No	\$44.73	(\$1.07)
775	14-Nov-13	13	3	\$45.45	No	\$44.73	(\$0.72)
776	14-Nov-13	13	4	\$45.61	No	\$44.73	(\$0.88)
777	14-Nov-13	13	5	\$45.93	No	\$44.73	(\$1.20)
778	14-Nov-13	13	6	\$45.93	No	\$44.73	(\$1.20)
779	14-Nov-13	13	7	\$38.71	No	\$44.73	\$6.02
780	14-Nov-13	13	8	\$41.67	No	\$44.73	\$3.06
781	14-Nov-13	13	9	\$42.43	No	\$44.73	\$2.30
782	14-Nov-13	13	10	\$44.84	No	\$44.73	(\$0.11)
783	14-Nov-13	13	11	\$44.84	No	\$44.73	(\$0.11)
784	14-Nov-13	13	12	\$43.85	No	\$44.73	\$0.88
785	14-Nov-13	14	1	\$43.91	No	\$44.73	\$0.82
786	14-Nov-13	14	2	\$43.48	No	\$44.73	\$1.25
787	14-Nov-13	14	3	\$43.48	No	\$44.73	\$1.25
788	14-Nov-13	14	4	\$43.48	No	\$44.73	\$1.25
789	14-Nov-13	14	5	\$43.48	No	\$44.73	\$1.25
790	14-Nov-13	14	6	\$43.48	No	\$44.73	\$1.25
791	14-Nov-13	14	7	\$43.48	No	\$44.73	\$1.25
792	14-Nov-13	14	8	\$43.48	No	\$44.73	\$1.25
793	14-Nov-13	14	9	\$43.48	No	\$44.73	\$1.25
794	14-Nov-13	14	10	\$49.77	No	\$44.73	(\$5.04)
795	14-Nov-13	14	11	\$45.81	No	\$44.73	(\$1.08)
796	14-Nov-13	14	12	\$48.88	No	\$44.73	(\$4.15)
797	14-Nov-13	15	1	\$47.10	No	\$44.73	(\$2.37)
798	14-Nov-13	15	2	\$47.01	No	\$44.73	(\$2.28)
799	14-Nov-13	15	3	\$46.89	No	\$44.73	(\$2.16)
800	14-Nov-13	15	4	\$46.89	No	\$44.73	(\$2.16)
801	14-Nov-13	15	5	\$46.50	No	\$44.73	(\$1.77)
802	14-Nov-13	15	6	\$46.74	No	\$44.73	(\$2.01)
803	14-Nov-13	15	7	\$46.99	No	\$44.73	(\$2.26)
804	14-Nov-13	15	8	\$46.54	No	\$44.73	(\$1.81)
805	14-Nov-13	15	9	\$47.00	No	\$44.73	(\$2.27)
806	14-Nov-13	15	10	\$48.80	No	\$44.73	(\$4.07)
807	14-Nov-13	15	11	\$48.44	No	\$44.73	(\$3.71)
808	14-Nov-13	15	12	\$48.80	No	\$44.73	(\$4.07)
809	14-Nov-13	16	1	\$47.05	No	\$44.73	(\$2.32)
810	14-Nov-13	16	2	\$47.38	No	\$44.73	(\$2.65)
811	14-Nov-13	16	3	\$47.05	No	\$44.73	(\$2.32)
812	14-Nov-13	16	4	\$47.06	No	\$44.73	(\$2.33)
813	14-Nov-13	16	5	\$48.07	No	\$44.73	(\$3.34)
814	14-Nov-13	16	6	\$48.07	No	\$44.73	(\$3.34)

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815	14-Nov-13	16	7	\$47.07	No	\$44.73	(\$2.34)
816	14-Nov-13	16	8	\$46.87	No	\$44.73	(\$2.14)
817	14-Nov-13	16	9	\$47.35	No	\$44.73	(\$2.62)
818	14-Nov-13	16	10	\$47.18	No	\$44.73	(\$2.45)
819	14-Nov-13	16	11	\$50.40	No	\$44.73	(\$5.67)
820	14-Nov-13	16	12	\$56.47	No	\$44.73	(\$11.74)
821	14-Nov-13	17	1	\$46.74	No	\$44.73	(\$2.01)
822	14-Nov-13	17	2	\$46.43	No	\$44.73	(\$1.70)
823	14-Nov-13	17	3	\$46.90	No	\$44.73	(\$2.17)
824	14-Nov-13	17	4	\$46.06	No	\$44.73	(\$1.33)
825	14-Nov-13	17	5	\$45.76	No	\$44.73	(\$1.03)
826	14-Nov-13	17	6	\$46.25	No	\$44.73	(\$1.52)
827	14-Nov-13	17	7	(\$17.84)	No	\$44.73	\$62.57
828	14-Nov-13	17	8	\$10.40	No	\$44.73	\$34.33
829	14-Nov-13	17	9	\$44.73	No	\$44.73	\$0.00
830	14-Nov-13	17	10	\$39.84	No	\$44.73	\$4.89
831	14-Nov-13	17	11	\$40.22	No	\$44.73	\$4.51
832	14-Nov-13	17	12	\$39.75	No	\$44.73	\$4.98
833	14-Nov-13	18	1	(\$1.10)	No	\$44.73	\$45.83
834	14-Nov-13	18	2	(\$0.21)	No	\$44.73	\$44.94
835	14-Nov-13	18	3	(\$1.10)	No	\$44.73	\$45.83
836	14-Nov-13	18	4	\$37.31	No	\$44.73	\$7.42
837	14-Nov-13	18	5	\$39.37	No	\$44.73	\$5.36
838	14-Nov-13	18	6	\$40.57	No	\$44.73	\$4.16
839	14-Nov-13	18	7	\$24.73	No	\$44.73	\$20.00
840	14-Nov-13	18	8	\$20.36	No	\$44.73	\$24.37
841	14-Nov-13	18	9	\$20.79	No	\$44.73	\$23.94
842	14-Nov-13	18	10	\$15.83	No	\$44.73	\$28.90
843	14-Nov-13	18	11	\$13.70	No	\$44.73	\$31.03
844	14-Nov-13	18	12	\$15.96	No	\$44.73	\$28.77
845	14-Nov-13	19	1	\$0.73	Yes	\$44.73	\$44.00
846	14-Nov-13	19	2	\$25.13	Yes	\$44.73	\$19.60
847	14-Nov-13	19	3	\$6.49	Yes	\$44.73	\$38.24
848	14-Nov-13	19	4	\$26.02	Yes	\$44.73	\$18.71
849	14-Nov-13	19	5	\$19.07	Yes	\$44.73	\$25.66
850	14-Nov-13	19	6	\$23.92	Yes	\$44.73	\$20.81
851	14-Nov-13	19	7	\$26.38	Yes	\$44.73	\$18.35
852	14-Nov-13	19	8	\$30.53	Yes	\$44.73	\$14.20
853	14-Nov-13	19	9	\$37.68	Yes	\$44.73	\$7.05
854	14-Nov-13	19	10	\$44.67	Yes	\$44.73	\$0.06
855	14-Nov-13	19	11	\$18.00	Yes	\$44.73	\$26.73
856	14-Nov-13	19	12	\$51.35	Yes	\$44.73	(\$6.62)
857	14-Nov-13	20	1	\$53.17	No	\$44.73	(\$8.44)

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858	14-Nov-13	20	2	\$50.29	No	\$44.73	(\$5.56)
859	14-Nov-13	20	3	\$49.16	No	\$44.73	(\$4.43)
860	14-Nov-13	20	4	\$39.04	No	\$44.73	\$5.69
861	14-Nov-13	20	5	\$44.73	No	\$44.73	\$0.00
862	14-Nov-13	20	6	\$42.71	No	\$44.73	\$2.02
863	14-Nov-13	20	7	\$44.70	No	\$44.73	\$0.03
864	14-Nov-13	20	8	\$41.04	No	\$44.73	\$3.69
865	14-Nov-13	20	9	\$41.04	No	\$44.73	\$3.69
866	14-Nov-13	20	10	\$41.06	No	\$44.73	\$3.67
867	14-Nov-13	20	11	\$39.00	No	\$44.73	\$5.73
868	14-Nov-13	20	12	\$36.64	No	\$44.73	\$8.09
869	14-Nov-13	21	1	\$42.66	No	\$44.73	\$2.07
870	14-Nov-13	21	2	\$42.95	No	\$44.73	\$1.78
871	14-Nov-13	21	3	\$44.63	No	\$44.73	\$0.10
872	14-Nov-13	21	4	\$43.44	No	\$44.73	\$1.29
873	14-Nov-13	21	5	\$42.77	No	\$44.73	\$1.96
874	14-Nov-13	21	6	\$41.12	No	\$44.73	\$3.61
875	14-Nov-13	21	7	\$41.08	No	\$44.73	\$3.65
876	14-Nov-13	21	8	\$39.11	No	\$44.73	\$5.62
877	14-Nov-13	21	9	\$39.11	No	\$44.73	\$5.62
878	14-Nov-13	21	10	\$38.06	No	\$44.73	\$6.67
879	14-Nov-13	21	11	\$37.53	No	\$44.73	\$7.20
880	14-Nov-13	21	12	\$35.73	No	\$44.73	\$9.00
881	14-Nov-13	22	1	\$40.21	Yes	\$44.73	\$4.52
882	14-Nov-13	22	2	\$38.59	Yes	\$44.73	\$6.14
883	14-Nov-13	22	3	\$41.56	Yes	\$44.73	\$3.17
884	14-Nov-13	22	4	\$42.99	Yes	\$44.73	\$1.74
885	14-Nov-13	22	5	\$42.99	Yes	\$44.73	\$1.74
886	14-Nov-13	22	6	\$41.13	Yes	\$44.73	\$3.60
887	14-Nov-13	22	7	\$39.96	Yes	\$44.73	\$4.77
888	14-Nov-13	22	8	\$40.96	Yes	\$44.73	\$3.77
889	14-Nov-13	22	9	\$38.36	Yes	\$44.73	\$6.37
890	14-Nov-13	22	10	\$36.96	Yes	\$44.73	\$7.77
891	14-Nov-13	22	11	\$36.07	Yes	\$44.73	\$8.66
892	14-Nov-13	22	12	\$31.90	Yes	\$44.73	\$12.83
893	16-Nov-13	14	12	\$30.45	Yes	\$42.57	\$12.12
894	16-Nov-13	15	1	\$29.87	Yes	\$42.57	\$12.70
895	16-Nov-13	15	2	\$29.87	Yes	\$42.57	\$12.70
896	16-Nov-13	15	3	\$29.88	Yes	\$42.57	\$12.69
897	16-Nov-13	15	4	\$34.44	Yes	\$42.57	\$8.13
898	16-Nov-13	15	5	\$30.01	Yes	\$42.57	\$12.56
899	16-Nov-13	15	6	\$29.51	Yes	\$42.57	\$13.06
900	16-Nov-13	15	7	\$28.93	Yes	\$42.57	\$13.64

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901	16-Nov-13	15	8	\$29.43	Yes	\$42.57	\$13.14
902	16-Nov-13	15	9	\$29.87	Yes	\$42.57	\$12.70
903	16-Nov-13	15	10	\$29.91	Yes	\$42.57	\$12.66
904	16-Nov-13	15	11	\$29.56	Yes	\$42.57	\$13.01
905	16-Nov-13	15	12	\$29.00	Yes	\$42.57	\$13.57
906	16-Nov-13	16	1	\$29.72	Yes	\$42.57	\$12.85
907	16-Nov-13	16	2	\$30.03	Yes	\$42.57	\$12.54
908	16-Nov-13	16	3	\$31.05	Yes	\$42.57	\$11.52
909	16-Nov-13	16	4	\$33.60	Yes	\$42.57	\$8.97
910	16-Nov-13	16	5	\$33.42	Yes	\$42.57	\$9.15
911	16-Nov-13	16	6	\$30.13	Yes	\$42.57	\$12.44
912	16-Nov-13	16	7	\$34.49	Yes	\$42.57	\$8.08
913	16-Nov-13	16	8	\$34.49	Yes	\$42.57	\$8.08
914	16-Nov-13	16	9	\$34.30	Yes	\$42.57	\$8.27
915	16-Nov-13	16	10	\$34.46	Yes	\$42.57	\$8.11
916	16-Nov-13	16	11	\$34.46	Yes	\$42.57	\$8.11
917	16-Nov-13	16	12	\$39.02	Yes	\$42.57	\$3.55
918	16-Nov-13	17	1	\$32.13	Yes	\$42.57	\$10.44
919	16-Nov-13	17	2	\$33.79	Yes	\$42.57	\$8.78
920	16-Nov-13	17	3	\$32.33	Yes	\$42.57	\$10.24
921	16-Nov-13	17	4	\$38.50	Yes	\$42.57	\$4.07
922	16-Nov-13	17	5	\$40.57	Yes	\$42.57	\$2.00
923	16-Nov-13	17	6	\$42.72	Yes	\$42.57	(\$0.15)
924	16-Nov-13	17	7	\$42.81	Yes	\$42.57	(\$0.24)
925	16-Nov-13	17	8	\$42.76	Yes	\$42.57	(\$0.19)
926	16-Nov-13	17	9	\$50.49	Yes	\$42.57	(\$7.92)
927	16-Nov-13	17	10	\$42.92	Yes	\$42.57	(\$0.35)
928	16-Nov-13	17	11	\$44.43	Yes	\$42.57	(\$1.86)
929	16-Nov-13	17	12	\$46.49	Yes	\$42.57	(\$3.92)
930	16-Nov-13	18	1	\$44.30	Yes	\$42.57	(\$1.73)
931	16-Nov-13	18	2	\$44.77	Yes	\$42.57	(\$2.20)
932	16-Nov-13	18	3	\$50.06	Yes	\$42.57	(\$7.49)
933	16-Nov-13	18	4	\$46.51	Yes	\$42.57	(\$3.94)
934	16-Nov-13	18	5	\$47.43	Yes	\$42.57	(\$4.86)
935	16-Nov-13	18	6	\$47.83	Yes	\$42.57	(\$5.26)
936	16-Nov-13	18	7	\$47.47	Yes	\$42.57	(\$4.90)
937	16-Nov-13	18	8	\$47.62	Yes	\$42.57	(\$5.05)
938	16-Nov-13	18	9	\$47.62	Yes	\$42.57	(\$5.05)
939	16-Nov-13	18	10	\$45.73	Yes	\$42.57	(\$3.16)
940	16-Nov-13	18	11	\$46.14	Yes	\$42.57	(\$3.57)
941	16-Nov-13	18	12	\$45.07	Yes	\$42.57	(\$2.50)
942	16-Nov-13	19	1	\$47.90	No	\$42.57	(\$5.33)
943	16-Nov-13	19	2	\$43.67	No	\$42.57	(\$1.10)

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944	16-Nov-13	19	3	\$47.13	No	\$42.57	(\$4.56)
945	16-Nov-13	19	4	\$42.21	No	\$42.57	\$0.36
946	16-Nov-13	19	5	\$42.21	No	\$42.57	\$0.36
947	16-Nov-13	19	6	\$41.65	No	\$42.57	\$0.92
948	16-Nov-13	19	7	\$42.80	No	\$42.57	(\$0.23)
949	16-Nov-13	19	8	\$45.45	No	\$42.57	(\$2.88)
950	16-Nov-13	19	9	\$45.51	No	\$42.57	(\$2.94)
951	16-Nov-13	19	10	\$45.04	No	\$42.57	(\$2.47)
952	16-Nov-13	19	11	\$46.04	No	\$42.57	(\$3.47)
953	16-Nov-13	19	12	\$42.91	No	\$42.57	(\$0.34)
954	16-Nov-13	20	1	\$45.11	Yes	\$42.57	(\$2.54)
955	16-Nov-13	20	2	\$39.84	Yes	\$42.57	\$2.73
956	16-Nov-13	20	3	\$40.89	Yes	\$42.57	\$1.68
957	16-Nov-13	20	4	\$43.23	Yes	\$42.57	(\$0.66)
958	16-Nov-13	20	5	\$41.97	Yes	\$42.57	\$0.60
959	16-Nov-13	20	6	\$42.50	Yes	\$42.57	\$0.07
960	16-Nov-13	20	7	\$39.72	Yes	\$42.57	\$2.85
961	16-Nov-13	20	8	\$39.72	Yes	\$42.57	\$2.85
962	16-Nov-13	20	9	\$39.72	Yes	\$42.57	\$2.85
963	16-Nov-13	20	10	\$38.51	Yes	\$42.57	\$4.06
964	16-Nov-13	20	11	\$38.52	Yes	\$42.57	\$4.05
965	16-Nov-13	20	12	\$37.20	Yes	\$42.57	\$5.37
966	17-Nov-13	15	7	\$31.02	Yes	\$42.55	\$11.53
967	17-Nov-13	15	8	\$30.86	Yes	\$42.55	\$11.69
968	17-Nov-13	15	9	\$32.67	Yes	\$42.55	\$9.88
969	17-Nov-13	15	10	\$32.65	Yes	\$42.55	\$9.90
970	17-Nov-13	15	11	\$33.31	Yes	\$42.55	\$9.24
971	17-Nov-13	15	12	\$34.06	Yes	\$42.55	\$8.49
972	17-Nov-13	16	1	\$31.60	Yes	\$42.55	\$10.95
973	17-Nov-13	16	2	\$32.02	Yes	\$42.55	\$10.53
974	17-Nov-13	16	3	\$32.62	Yes	\$42.55	\$9.93
975	17-Nov-13	16	4	\$33.95	Yes	\$42.55	\$8.60
976	17-Nov-13	16	5	\$34.43	Yes	\$42.55	\$8.12
977	17-Nov-13	16	6	\$35.22	Yes	\$42.55	\$7.33
978	17-Nov-13	16	7	\$35.68	Yes	\$42.55	\$6.87
979	17-Nov-13	16	8	\$40.73	Yes	\$42.55	\$1.82
980	17-Nov-13	16	9	\$42.55	Yes	\$42.55	\$0.00
981	17-Nov-13	16	10	\$42.70	Yes	\$42.55	(\$0.15)
982	17-Nov-13	16	11	\$42.70	Yes	\$42.55	(\$0.15)
983	17-Nov-13	16	12	\$44.62	Yes	\$42.55	(\$2.07)
984	17-Nov-13	17	1	\$31.12	Yes	\$42.55	\$11.43
985	17-Nov-13	17	2	\$32.48	Yes	\$42.55	\$10.07
986	17-Nov-13	17	3	\$32.58	Yes	\$42.55	\$9.97

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987	17-Nov-13	17	4	\$31.54	Yes	\$42.55	\$11.01
988	17-Nov-13	17	5	\$34.46	Yes	\$42.55	\$8.09
989	17-Nov-13	17	6	\$36.94	Yes	\$42.55	\$5.61
990	17-Nov-13	17	7	\$42.55	Yes	\$42.55	\$0.00
991	17-Nov-13	17	8	\$45.89	Yes	\$42.55	(\$3.34)
992	17-Nov-13	17	9	\$106.15	Yes	\$42.55	(\$63.60)
993	17-Nov-13	17	10	\$45.60	Yes	\$42.55	(\$3.05)
994	17-Nov-13	17	11	\$43.09	Yes	\$42.55	(\$0.54)
995	17-Nov-13	17	12	\$51.25	Yes	\$42.55	(\$8.70)
996	17-Nov-13	18	1	\$35.78	No	\$42.55	\$6.77
997	17-Nov-13	18	2	\$37.71	No	\$42.55	\$4.84
998	17-Nov-13	18	3	\$41.14	No	\$42.55	\$1.41
999	17-Nov-13	18	4	\$38.76	No	\$42.55	\$3.79
1000	17-Nov-13	18	5	\$42.74	No	\$42.55	(\$0.19)
1001	17-Nov-13	18	6	\$42.09	No	\$42.55	\$0.46
1002	17-Nov-13	18	7	\$42.56	No	\$42.55	(\$0.01)
1003	17-Nov-13	18	8	\$43.38	No	\$42.55	(\$0.83)
1004	17-Nov-13	18	9	\$43.73	No	\$42.55	(\$1.18)
1005	17-Nov-13	18	10	\$43.80	No	\$42.55	(\$1.25)
1006	17-Nov-13	18	11	\$44.44	No	\$42.55	(\$1.89)
1007	17-Nov-13	18	12	\$43.86	No	\$42.55	(\$1.31)
1008	17-Nov-13	19	1	\$43.24	Yes	\$42.55	(\$0.69)
1009	17-Nov-13	19	2	\$43.24	Yes	\$42.55	(\$0.69)
1010	17-Nov-13	19	3	\$43.24	Yes	\$42.55	(\$0.69)
1011	17-Nov-13	19	4	\$42.55	Yes	\$42.55	\$0.00
1012	17-Nov-13	19	5	\$22.59	Yes	\$42.55	\$19.96
1013	17-Nov-13	19	6	\$25.52	Yes	\$42.55	\$17.03
1014	17-Nov-13	19	7	\$26.90	Yes	\$42.55	\$15.65
1015	17-Nov-13	19	8	\$52.30	Yes	\$42.55	(\$9.75)
1016	17-Nov-13	19	9	\$55.38	Yes	\$42.55	(\$12.83)
1017	17-Nov-13	19	10	\$38.38	Yes	\$42.55	\$4.17
1018	17-Nov-13	19	11	\$46.25	Yes	\$42.55	(\$3.70)
1019	17-Nov-13	19	12	\$46.81	Yes	\$42.55	(\$4.26)
1020	17-Nov-13	20	1	\$54.71	Yes	\$42.55	(\$12.16)
1021	17-Nov-13	20	2	\$67.97	Yes	\$42.55	(\$25.42)
1022	17-Nov-13	20	3	\$45.51	Yes	\$42.55	(\$2.96)
1023	17-Nov-13	20	4	\$39.73	Yes	\$42.55	\$2.82
1024	17-Nov-13	20	5	\$37.90	Yes	\$42.55	\$4.65
1025	17-Nov-13	20	6	\$37.53	Yes	\$42.55	\$5.02
1026	17-Nov-13	20	7	\$38.55	Yes	\$42.55	\$4.00
1027	17-Nov-13	20	8	\$40.70	Yes	\$42.55	\$1.85
1028	17-Nov-13	20	9	\$42.55	Yes	\$42.55	\$0.00
1029	17-Nov-13	20	10	\$42.19	Yes	\$42.55	\$0.36

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1030	17-Nov-13	20	11	\$41.79	Yes	\$42.55	\$0.76
1031	17-Nov-13	20	12	\$41.97	Yes	\$42.55	\$0.58
1032	18-Nov-13	8	4	\$41.67	No	\$42.55	\$0.88
1033	18-Nov-13	8	5	\$48.23	No	\$42.55	(\$5.68)
1034	18-Nov-13	8	6	\$45.15	No	\$42.55	(\$2.60)
1035	18-Nov-13	8	7	\$39.71	No	\$42.55	\$2.84
1036	18-Nov-13	8	8	\$39.65	No	\$42.55	\$2.90
1037	18-Nov-13	8	9	\$36.61	No	\$42.55	\$5.94
1038	18-Nov-13	8	10	\$37.15	No	\$42.55	\$5.40
1039	18-Nov-13	8	11	\$36.75	No	\$42.55	\$5.80
1040	18-Nov-13	8	12	\$36.75	No	\$42.55	\$5.80
1041	18-Nov-13	9	1	\$39.77	No	\$42.55	\$2.78
1042	18-Nov-13	9	2	\$41.79	No	\$42.55	\$0.76
1043	18-Nov-13	9	3	\$39.77	No	\$42.55	\$2.78
1044	18-Nov-13	9	4	\$39.77	No	\$42.55	\$2.78
1045	18-Nov-13	9	5	\$41.45	No	\$42.55	\$1.10
1046	18-Nov-13	9	6	\$37.14	No	\$42.55	\$5.41
1047	18-Nov-13	9	7	\$36.72	No	\$42.55	\$5.83
1048	18-Nov-13	9	8	\$36.71	No	\$42.55	\$5.84
1049	18-Nov-13	9	9	\$36.21	No	\$42.55	\$6.34
1050	18-Nov-13	9	10	\$34.74	No	\$42.55	\$7.81
1051	18-Nov-13	9	11	\$36.86	No	\$42.55	\$5.69
1052	18-Nov-13	9	12	\$36.78	No	\$42.55	\$5.77
1053	18-Nov-13	10	1	\$47.78	No	\$42.55	(\$5.23)
1054	18-Nov-13	10	2	\$47.61	No	\$42.55	(\$5.06)
1055	18-Nov-13	10	3	\$53.44	No	\$42.55	(\$10.89)
1056	18-Nov-13	10	4	\$52.84	No	\$42.55	(\$10.29)
1057	18-Nov-13	10	5	\$52.84	No	\$42.55	(\$10.29)
1058	18-Nov-13	10	6	\$55.08	No	\$42.55	(\$12.53)
1059	18-Nov-13	10	7	\$42.05	No	\$42.55	\$0.50
1060	18-Nov-13	10	8	\$46.41	No	\$42.55	(\$3.86)
1061	18-Nov-13	10	9	\$46.82	No	\$42.55	(\$4.27)
1062	18-Nov-13	10	10	\$45.92	No	\$42.55	(\$3.37)
1063	18-Nov-13	10	11	\$40.89	No	\$42.55	\$1.66
1064	18-Nov-13	10	12	\$44.82	No	\$42.55	(\$2.27)
1065	18-Nov-13	11	1	\$41.86	No	\$42.55	\$0.69
1066	18-Nov-13	11	2	\$36.65	No	\$42.55	\$5.90
1067	18-Nov-13	11	3	\$35.62	No	\$42.55	\$6.93
1068	18-Nov-13	11	4	\$35.07	No	\$42.55	\$7.48
1069	18-Nov-13	11	5	\$36.24	No	\$42.55	\$6.31
1070	18-Nov-13	11	6	\$35.07	No	\$42.55	\$7.48
1071	18-Nov-13	11	7	\$41.77	No	\$42.55	\$0.78
1072	18-Nov-13	11	8	\$37.90	No	\$42.55	\$4.65

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1073	18-Nov-13	11	9	\$37.01	No	\$42.55	\$5.54
1074	18-Nov-13	11	10	\$36.13	No	\$42.55	\$6.42
1075	18-Nov-13	11	11	\$37.03	No	\$42.55	\$5.52
1076	18-Nov-13	11	12	\$36.68	No	\$42.55	\$5.87
1077	18-Nov-13	12	1	\$37.41	No	\$42.55	\$5.14
1078	18-Nov-13	12	2	\$36.61	No	\$42.55	\$5.94
1079	18-Nov-13	12	3	\$36.88	No	\$42.55	\$5.67
1080	18-Nov-13	12	4	\$36.89	No	\$42.55	\$5.66
1081	18-Nov-13	12	5	\$35.93	No	\$42.55	\$6.62
1082	18-Nov-13	12	6	\$35.76	No	\$42.55	\$6.79
1083	18-Nov-13	12	7	\$36.57	No	\$42.55	\$5.98
1084	18-Nov-13	12	8	\$37.40	No	\$42.55	\$5.15
1085	18-Nov-13	12	9	\$36.86	No	\$42.55	\$5.69
1086	18-Nov-13	12	10	\$36.85	No	\$42.55	\$5.70
1087	18-Nov-13	12	11	\$37.17	No	\$42.55	\$5.38
1088	18-Nov-13	12	12	\$37.25	No	\$42.55	\$5.30
1089	18-Nov-13	13	1	\$37.52	No	\$42.55	\$5.03
1090	18-Nov-13	13	2	\$37.68	No	\$42.55	\$4.87
1091	18-Nov-13	13	3	\$37.52	No	\$42.55	\$5.03
1092	18-Nov-13	13	4	\$36.85	No	\$42.55	\$5.70
1093	18-Nov-13	13	5	\$41.75	No	\$42.55	\$0.80
1094	18-Nov-13	13	6	\$37.02	No	\$42.55	\$5.53
1095	18-Nov-13	13	7	\$42.19	No	\$42.55	\$0.36
1096	18-Nov-13	13	8	\$41.83	No	\$42.55	\$0.72
1097	18-Nov-13	13	9	\$42.46	No	\$42.55	\$0.09
1098	18-Nov-13	13	10	\$41.90	No	\$42.55	\$0.65
1099	18-Nov-13	13	11	\$41.87	No	\$42.55	\$0.68
1100	18-Nov-13	13	12	\$41.92	No	\$42.55	\$0.63
1101	18-Nov-13	14	1	\$42.48	No	\$42.55	\$0.07
1102	18-Nov-13	14	2	\$42.48	No	\$42.55	\$0.07
1103	18-Nov-13	14	3	\$42.48	No	\$42.55	\$0.07
1104	18-Nov-13	14	4	\$44.49	No	\$42.55	(\$1.94)
1105	18-Nov-13	14	5	\$43.53	No	\$42.55	(\$0.98)
1106	18-Nov-13	14	6	\$43.53	No	\$42.55	(\$0.98)
1107	18-Nov-13	14	7	\$83.42	No	\$42.55	(\$40.87)
1108	18-Nov-13	14	8	\$46.65	No	\$42.55	(\$4.10)
1109	18-Nov-13	14	9	\$46.15	No	\$42.55	(\$3.60)
1110	18-Nov-13	14	10	\$44.67	No	\$42.55	(\$2.12)
1111	18-Nov-13	14	11	\$44.27	No	\$42.55	(\$1.72)
1112	18-Nov-13	14	12	\$42.74	No	\$42.55	(\$0.19)
1113	18-Nov-13	15	1	\$42.55	No	\$42.55	\$0.00
1114	18-Nov-13	15	2	\$42.55	No	\$42.55	\$0.00
1115	18-Nov-13	15	3	\$42.32	No	\$42.55	\$0.23

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1116	18-Nov-13	15	4	\$42.41	No	\$42.55	\$0.14
1117	18-Nov-13	15	5	\$42.40	No	\$42.55	\$0.15
1118	18-Nov-13	15	6	\$42.51	No	\$42.55	\$0.04
1119	18-Nov-13	15	7	\$43.22	No	\$42.55	(\$0.67)
1120	18-Nov-13	15	8	\$42.57	No	\$42.55	(\$0.02)
1121	18-Nov-13	15	9	\$42.57	No	\$42.55	(\$0.02)
1122	18-Nov-13	15	10	\$42.62	No	\$42.55	(\$0.07)
1123	18-Nov-13	15	11	\$42.59	No	\$42.55	(\$0.04)
1124	18-Nov-13	15	12	\$42.55	No	\$42.55	\$0.00
1125	18-Nov-13	16	1	\$42.05	No	\$42.55	\$0.50
1126	18-Nov-13	16	2	\$41.98	No	\$42.55	\$0.57
1127	18-Nov-13	16	3	\$42.55	No	\$42.55	\$0.00
1128	18-Nov-13	16	4	\$42.05	No	\$42.55	\$0.50
1129	18-Nov-13	16	5	\$42.02	No	\$42.55	\$0.53
1130	18-Nov-13	16	6	\$42.02	No	\$42.55	\$0.53
1131	18-Nov-13	16	7	\$42.27	No	\$42.55	\$0.28
1132	18-Nov-13	16	8	\$42.45	No	\$42.55	\$0.10
1133	18-Nov-13	16	9	\$42.55	No	\$42.55	\$0.00
1134	18-Nov-13	16	10	\$42.16	No	\$42.55	\$0.39
1135	18-Nov-13	16	11	\$42.39	No	\$42.55	\$0.16
1136	18-Nov-13	16	12	\$44.61	No	\$42.55	(\$2.06)
1137	18-Nov-13	17	1	\$51.64	No	\$42.55	(\$9.09)
1138	18-Nov-13	17	2	\$42.55	No	\$42.55	\$0.00
1139	18-Nov-13	17	3	\$42.55	No	\$42.55	\$0.00
1140	18-Nov-13	17	4	\$43.57	No	\$42.55	(\$1.02)
1141	18-Nov-13	17	5	\$60.50	No	\$42.55	(\$17.95)
1142	18-Nov-13	17	6	\$40.95	No	\$42.55	\$1.60
1143	18-Nov-13	17	7	\$42.05	No	\$42.55	\$0.50
1144	18-Nov-13	17	8	\$42.60	No	\$42.55	(\$0.05)
1145	18-Nov-13	17	9	\$48.13	No	\$42.55	(\$5.58)
1146	18-Nov-13	17	10	\$65.79	No	\$42.55	(\$23.24)
1147	18-Nov-13	17	11	\$46.71	No	\$42.55	(\$4.16)
1148	18-Nov-13	17	12	\$50.29	No	\$42.55	(\$7.74)
1149	18-Nov-13	18	1	\$42.45	No	\$42.55	\$0.10
1150	18-Nov-13	18	2	\$43.09	No	\$42.55	(\$0.54)
1151	18-Nov-13	18	3	\$47.29	No	\$42.55	(\$4.74)
1152	18-Nov-13	18	4	\$44.64	No	\$42.55	(\$2.09)
1153	18-Nov-13	18	5	\$45.55	No	\$42.55	(\$3.00)
1154	18-Nov-13	18	6	\$53.36	No	\$42.55	(\$10.81)
1155	18-Nov-13	18	7	\$52.71	No	\$42.55	(\$10.16)
1156	18-Nov-13	18	8	\$53.37	No	\$42.55	(\$10.82)
1157	18-Nov-13	18	9	\$53.37	No	\$42.55	(\$10.82)
1158	18-Nov-13	18	10	\$54.32	No	\$42.55	(\$11.77)

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1159	18-Nov-13	18	11	\$49.88	No	\$42.55	(\$7.33)
1160	18-Nov-13	18	12	\$49.18	No	\$42.55	(\$6.63)
1161	18-Nov-13	19	1	\$44.45	Yes	\$42.55	(\$1.90)
1162	18-Nov-13	19	2	\$42.44	Yes	\$42.55	\$0.11
1163	18-Nov-13	19	3	\$42.09	Yes	\$42.55	\$0.46
1164	18-Nov-13	19	4	\$43.81	Yes	\$42.55	(\$1.26)
1165	18-Nov-13	19	5	\$44.36	Yes	\$42.55	(\$1.81)
1166	18-Nov-13	19	6	\$45.22	Yes	\$42.55	(\$2.67)
1167	18-Nov-13	19	7	\$45.69	Yes	\$42.55	(\$3.14)
1168	18-Nov-13	19	8	\$44.92	Yes	\$42.55	(\$2.37)
1169	18-Nov-13	19	9	\$45.15	Yes	\$42.55	(\$2.60)
1170	18-Nov-13	19	10	\$48.71	Yes	\$42.55	(\$6.16)
1171	18-Nov-13	19	11	\$44.50	Yes	\$42.55	(\$1.95)
1172	18-Nov-13	19	12	\$45.41	Yes	\$42.55	(\$2.86)
1173	18-Nov-13	20	1	\$44.70	Yes	\$42.55	(\$2.15)
1174	18-Nov-13	20	2	\$42.63	Yes	\$42.55	(\$0.08)
1175	18-Nov-13	20	3	\$43.14	Yes	\$42.55	(\$0.59)
1176	18-Nov-13	20	4	\$43.24	Yes	\$42.55	(\$0.69)
1177	18-Nov-13	20	5	\$43.25	Yes	\$42.55	(\$0.70)
1178	18-Nov-13	20	6	\$42.17	Yes	\$42.55	\$0.38
1179	18-Nov-13	20	7	\$41.37	Yes	\$42.55	\$1.18
1180	18-Nov-13	20	8	\$38.83	Yes	\$42.55	\$3.72
1181	18-Nov-13	20	9	\$38.40	Yes	\$42.55	\$4.15
1182	18-Nov-13	20	10	\$37.78	Yes	\$42.55	\$4.77
1183	18-Nov-13	20	11	\$37.68	Yes	\$42.55	\$4.87
1184	18-Nov-13	20	12	\$36.29	Yes	\$42.55	\$6.26
1185	18-Nov-13	21	1	\$37.91	Yes	\$42.55	\$4.64
1186	18-Nov-13	21	2	\$38.11	Yes	\$42.55	\$4.44
1187	18-Nov-13	21	3	\$38.11	Yes	\$42.55	\$4.44
1188	18-Nov-13	21	4	\$38.21	Yes	\$42.55	\$4.34
1189	18-Nov-13	21	5	\$42.16	Yes	\$42.55	\$0.39
1190	18-Nov-13	21	6	\$42.05	Yes	\$42.55	\$0.50
1191	18-Nov-13	21	7	\$39.68	Yes	\$42.55	\$2.87
1192	18-Nov-13	21	8	\$38.14	Yes	\$42.55	\$4.41
1193	18-Nov-13	21	9	\$37.29	Yes	\$42.55	\$5.26
1194	18-Nov-13	21	10	\$37.02	Yes	\$42.55	\$5.53
1195	18-Nov-13	21	11	\$36.93	Yes	\$42.55	\$5.62
1196	18-Nov-13	21	12	\$36.14	Yes	\$42.55	\$6.41
1197	18-Nov-13	22	1	\$35.89	Yes	\$42.55	\$6.66
1198	18-Nov-13	22	2	\$35.86	Yes	\$42.55	\$6.69
1199	18-Nov-13	22	3	\$36.07	Yes	\$42.55	\$6.48
1200	18-Nov-13	22	4	\$37.22	Yes	\$42.55	\$5.33
1201	18-Nov-13	22	5	\$37.11	Yes	\$42.55	\$5.44

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1202	18-Nov-13	22	6	\$36.61	Yes	\$42.55	\$5.94
1203	18-Nov-13	22	7	\$28.33	Yes	\$42.55	\$14.22
1204	18-Nov-13	22	8	\$31.05	Yes	\$42.55	\$11.50
1205	18-Nov-13	22	9	\$31.55	Yes	\$42.55	\$11.00
1206	18-Nov-13	22	10	\$30.34	Yes	\$42.55	\$12.21
1207	18-Nov-13	22	11	\$31.02	Yes	\$42.55	\$11.53
1208	18-Nov-13	22	12	\$28.33	Yes	\$42.55	\$14.22
1209	19-Nov-13	11	8	\$34.83	Yes	\$45.32	\$10.49
1210	19-Nov-13	11	9	\$35.15	Yes	\$45.32	\$10.17
1211	19-Nov-13	11	10	\$34.91	Yes	\$45.32	\$10.41
1212	19-Nov-13	11	11	\$34.79	Yes	\$45.32	\$10.53
1213	19-Nov-13	11	12	\$33.14	Yes	\$45.32	\$12.18
1214	19-Nov-13	12	1	\$31.95	Yes	\$45.32	\$13.37
1215	19-Nov-13	12	2	\$32.69	Yes	\$45.32	\$12.63
1216	19-Nov-13	12	3	\$34.46	Yes	\$45.32	\$10.86
1217	19-Nov-13	12	4	\$31.71	Yes	\$45.32	\$13.61
1218	19-Nov-13	12	5	\$32.67	Yes	\$45.32	\$12.65
1219	19-Nov-13	12	6	\$31.56	Yes	\$45.32	\$13.76
1220	19-Nov-13	12	7	\$31.64	Yes	\$45.32	\$13.68
1221	19-Nov-13	12	8	\$32.53	Yes	\$45.32	\$12.79
1222	19-Nov-13	12	9	\$32.29	Yes	\$45.32	\$13.03
1223	19-Nov-13	12	10	\$32.19	Yes	\$45.32	\$13.13
1224	19-Nov-13	12	11	\$32.52	Yes	\$45.32	\$12.80
1225	19-Nov-13	12	12	\$31.96	Yes	\$45.32	\$13.36
1226	19-Nov-13	13	1	\$33.68	Yes	\$45.32	\$11.64
1227	19-Nov-13	13	2	\$32.56	Yes	\$45.32	\$12.76
1228	19-Nov-13	13	3	\$30.97	Yes	\$45.32	\$14.35
1229	19-Nov-13	13	4	\$31.47	Yes	\$45.32	\$13.85
1230	19-Nov-13	13	5	\$31.47	Yes	\$45.32	\$13.85
1231	19-Nov-13	13	6	\$31.46	Yes	\$45.32	\$13.86
1232	19-Nov-13	13	7	\$31.69	Yes	\$45.32	\$13.63
1233	19-Nov-13	13	8	\$31.38	Yes	\$45.32	\$13.94
1234	19-Nov-13	13	9	\$31.69	Yes	\$45.32	\$13.63
1235	19-Nov-13	13	10	\$30.14	Yes	\$45.32	\$15.18
1236	19-Nov-13	13	11	\$31.45	Yes	\$45.32	\$13.87
1237	19-Nov-13	13	12	\$31.76	Yes	\$45.32	\$13.56
1238	19-Nov-13	14	1	\$33.04	Yes	\$45.32	\$12.28
1239	19-Nov-13	14	2	\$34.23	Yes	\$45.32	\$11.09
1240	19-Nov-13	14	3	\$34.23	Yes	\$45.32	\$11.09
1241	19-Nov-13	14	4	\$32.38	Yes	\$45.32	\$12.94
1242	19-Nov-13	14	5	\$31.29	Yes	\$45.32	\$14.03
1243	19-Nov-13	14	6	\$32.12	Yes	\$45.32	\$13.20
1244	19-Nov-13	14	7	\$34.74	Yes	\$45.32	\$10.58

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1245	19-Nov-13	14	8	\$34.74	Yes	\$45.32	\$10.58
1246	19-Nov-13	14	9	\$34.47	Yes	\$45.32	\$10.85
1247	19-Nov-13	14	10	\$34.30	Yes	\$45.32	\$11.02
1248	19-Nov-13	14	11	\$34.18	Yes	\$45.32	\$11.14
1249	19-Nov-13	14	12	\$34.32	Yes	\$45.32	\$11.00
1250	19-Nov-13	15	1	\$32.55	Yes	\$45.32	\$12.77
1251	19-Nov-13	15	2	\$31.29	Yes	\$45.32	\$14.03
1252	19-Nov-13	15	3	\$32.45	Yes	\$45.32	\$12.87
1253	19-Nov-13	15	4	\$32.60	Yes	\$45.32	\$12.72
1254	19-Nov-13	15	5	\$32.06	Yes	\$45.32	\$13.26
1255	19-Nov-13	15	6	\$32.10	Yes	\$45.32	\$13.22
1256	19-Nov-13	15	7	\$34.55	Yes	\$45.32	\$10.77
1257	19-Nov-13	15	8	\$33.11	Yes	\$45.32	\$12.21
1258	19-Nov-13	15	9	\$34.55	Yes	\$45.32	\$10.77
1259	19-Nov-13	15	10	\$35.06	Yes	\$45.32	\$10.26
1260	19-Nov-13	15	11	\$34.24	Yes	\$45.32	\$11.08
1261	19-Nov-13	15	12	\$29.20	Yes	\$45.32	\$16.12
1262	19-Nov-13	16	1	\$31.60	Yes	\$45.32	\$13.72
1263	19-Nov-13	16	2	\$31.11	Yes	\$45.32	\$14.21
1264	19-Nov-13	16	3	\$31.11	Yes	\$45.32	\$14.21
1265	19-Nov-13	16	4	\$31.74	Yes	\$45.32	\$13.58
1266	19-Nov-13	16	5	\$32.79	Yes	\$45.32	\$12.53
1267	19-Nov-13	16	6	\$31.46	Yes	\$45.32	\$13.86
1268	19-Nov-13	16	7	\$34.42	Yes	\$45.32	\$10.90
1269	19-Nov-13	16	8	\$34.23	Yes	\$45.32	\$11.09
1270	19-Nov-13	16	9	\$34.50	Yes	\$45.32	\$10.82
1271	19-Nov-13	16	10	\$34.56	Yes	\$45.32	\$10.76
1272	19-Nov-13	16	11	\$34.84	Yes	\$45.32	\$10.48
1273	19-Nov-13	16	12	\$37.17	Yes	\$45.32	\$8.15
1274	19-Nov-13	17	1	\$31.37	Yes	\$45.32	\$13.95
1275	19-Nov-13	17	2	\$32.49	Yes	\$45.32	\$12.83
1276	19-Nov-13	17	3	\$33.48	Yes	\$45.32	\$11.84
1277	19-Nov-13	17	4	\$33.60	Yes	\$45.32	\$11.72
1278	19-Nov-13	17	5	\$34.38	Yes	\$45.32	\$10.94
1279	19-Nov-13	17	6	\$34.91	Yes	\$45.32	\$10.41
1280	19-Nov-13	17	7	\$41.19	Yes	\$45.32	\$4.13
1281	19-Nov-13	17	8	\$41.60	Yes	\$45.32	\$3.72
1282	19-Nov-13	17	9	\$46.43	Yes	\$45.32	(\$1.11)
1283	19-Nov-13	17	10	\$49.24	Yes	\$45.32	(\$3.92)
1284	19-Nov-13	17	11	\$51.57	Yes	\$45.32	(\$6.25)
1285	19-Nov-13	17	12	\$55.29	Yes	\$45.32	(\$9.97)
1286	19-Nov-13	18	1	\$44.52	Yes	\$45.32	\$0.80
1287	19-Nov-13	18	2	\$45.18	Yes	\$45.32	\$0.14

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1288	19-Nov-13	18	3	\$46.55	Yes	\$45.32	(\$1.23)
1289	19-Nov-13	18	4	\$56.12	Yes	\$45.32	(\$10.80)
1290	19-Nov-13	18	5	\$56.12	Yes	\$45.32	(\$10.80)
1291	19-Nov-13	18	6	\$53.74	Yes	\$45.32	(\$8.42)
1292	19-Nov-13	18	7	\$53.34	Yes	\$45.32	(\$8.02)
1293	19-Nov-13	18	8	\$53.34	Yes	\$45.32	(\$8.02)
1294	19-Nov-13	18	9	\$53.36	Yes	\$45.32	(\$8.04)
1295	19-Nov-13	18	10	\$63.05	Yes	\$45.32	(\$17.73)
1296	19-Nov-13	18	11	\$52.83	Yes	\$45.32	(\$7.51)
1297	19-Nov-13	18	12	\$51.06	Yes	\$45.32	(\$5.74)
1298	19-Nov-13	19	1	\$52.17	No	\$45.32	(\$6.85)
1299	19-Nov-13	19	2	\$50.78	No	\$45.32	(\$5.46)
1300	19-Nov-13	19	3	\$50.78	No	\$45.32	(\$5.46)
1301	19-Nov-13	19	4	\$46.60	No	\$45.32	(\$1.28)
1302	19-Nov-13	19	5	\$49.64	No	\$45.32	(\$4.32)
1303	19-Nov-13	19	6	\$50.48	No	\$45.32	(\$5.16)
1304	19-Nov-13	19	7	\$49.43	No	\$45.32	(\$4.11)
1305	19-Nov-13	19	8	\$49.43	No	\$45.32	(\$4.11)
1306	19-Nov-13	19	9	\$49.43	No	\$45.32	(\$4.11)
1307	19-Nov-13	19	10	\$49.48	No	\$45.32	(\$4.16)
1308	19-Nov-13	19	11	\$49.46	No	\$45.32	(\$4.14)
1309	19-Nov-13	19	12	\$47.57	No	\$45.32	(\$2.25)
1310	19-Nov-13	20	1	\$49.61	No	\$45.32	(\$4.29)
1311	19-Nov-13	20	2	\$48.41	No	\$45.32	(\$3.09)
1312	19-Nov-13	20	3	\$49.30	No	\$45.32	(\$3.98)
1313	19-Nov-13	20	4	\$49.67	No	\$45.32	(\$4.35)
1314	19-Nov-13	20	5	\$49.74	No	\$45.32	(\$4.42)
1315	19-Nov-13	20	6	\$49.75	No	\$45.32	(\$4.43)
1316	19-Nov-13	20	7	\$50.16	No	\$45.32	(\$4.84)
1317	19-Nov-13	20	8	\$45.85	No	\$45.32	(\$0.53)
1318	19-Nov-13	20	9	\$45.85	No	\$45.32	(\$0.53)
1319	19-Nov-13	20	10	\$46.51	No	\$45.32	(\$1.19)
1320	19-Nov-13	20	11	\$48.78	No	\$45.32	(\$3.46)
1321	19-Nov-13	20	12	\$41.82	No	\$45.32	\$3.50
1322	19-Nov-13	21	1	\$45.85	No	\$45.32	(\$0.53)
1323	19-Nov-13	21	2	\$44.94	No	\$45.32	\$0.38
1324	19-Nov-13	21	3	\$45.42	No	\$45.32	(\$0.10)
1325	19-Nov-13	21	4	\$45.49	No	\$45.32	(\$0.17)
1326	19-Nov-13	21	5	\$45.49	No	\$45.32	(\$0.17)
1327	19-Nov-13	21	6	\$45.45	No	\$45.32	(\$0.13)
1328	19-Nov-13	21	7	\$45.36	No	\$45.32	(\$0.04)
1329	19-Nov-13	21	8	\$45.36	No	\$45.32	(\$0.04)
1330	19-Nov-13	21	9	\$44.02	No	\$45.32	\$1.30

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1331	19-Nov-13	21	10	\$36.22	No	\$45.32	\$9.10
1332	19-Nov-13	21	11	\$35.45	No	\$45.32	\$9.87
1333	19-Nov-13	21	12	\$35.35	No	\$45.32	\$9.97
1334	19-Nov-13	22	1	\$44.37	No	\$45.32	\$0.95
1335	19-Nov-13	22	2	\$43.35	No	\$45.32	\$1.97
1336	19-Nov-13	22	3	\$43.45	No	\$45.32	\$1.87
1337	19-Nov-13	22	4	\$41.41	No	\$45.32	\$3.91
1338	19-Nov-13	22	5	\$36.07	No	\$45.32	\$9.25
1339	19-Nov-13	22	6	\$35.04	No	\$45.32	\$10.28
1340	19-Nov-13	22	7	\$34.97	No	\$45.32	\$10.35
1341	19-Nov-13	22	8	\$34.97	No	\$45.32	\$10.35
1342	19-Nov-13	22	9	\$34.96	No	\$45.32	\$10.36
1343	19-Nov-13	22	10	\$34.43	No	\$45.32	\$10.89
1344	19-Nov-13	22	11	\$34.43	No	\$45.32	\$10.89
1345	19-Nov-13	22	12	\$32.88	No	\$45.32	\$12.44
1346	20-Nov-13	8	8	\$51.18	Yes	\$43.99	(\$7.19)
1347	20-Nov-13	8	9	\$56.66	Yes	\$43.99	(\$12.67)
1348	20-Nov-13	8	10	\$56.86	Yes	\$43.99	(\$12.87)
1349	20-Nov-13	8	11	\$53.86	Yes	\$43.99	(\$9.87)
1350	20-Nov-13	8	12	\$50.83	Yes	\$43.99	(\$6.84)
1351	20-Nov-13	9	1	\$36.88	No	\$43.99	\$7.11
1352	20-Nov-13	9	2	\$40.21	No	\$43.99	\$3.78
1353	20-Nov-13	9	3	\$42.22	No	\$43.99	\$1.77
1354	20-Nov-13	9	4	\$42.27	No	\$43.99	\$1.72
1355	20-Nov-13	9	5	\$42.33	No	\$43.99	\$1.66
1356	20-Nov-13	9	6	\$41.90	No	\$43.99	\$2.09
1357	20-Nov-13	9	7	\$39.95	No	\$43.99	\$4.04
1358	20-Nov-13	9	8	\$35.90	No	\$43.99	\$8.09
1359	20-Nov-13	9	9	\$39.74	No	\$43.99	\$4.25
1360	20-Nov-13	9	10	\$40.15	No	\$43.99	\$3.84
1361	20-Nov-13	9	11	\$40.15	No	\$43.99	\$3.84
1362	20-Nov-13	9	12	\$39.92	No	\$43.99	\$4.07
1363	20-Nov-13	10	1	\$39.92	Yes	\$43.99	\$4.07
1364	20-Nov-13	10	2	\$39.71	Yes	\$43.99	\$4.28
1365	20-Nov-13	10	3	\$33.48	Yes	\$43.99	\$10.51
1366	20-Nov-13	10	4	\$36.04	Yes	\$43.99	\$7.95
1367	20-Nov-13	10	5	\$35.79	Yes	\$43.99	\$8.20
1368	20-Nov-13	10	6	\$33.40	Yes	\$43.99	\$10.59
1369	20-Nov-13	10	7	\$32.35	Yes	\$43.99	\$11.64
1370	20-Nov-13	10	8	\$33.53	Yes	\$43.99	\$10.46
1371	20-Nov-13	10	9	\$32.64	Yes	\$43.99	\$11.36
1372	20-Nov-13	10	10	\$32.32	Yes	\$43.99	\$11.67
1373	20-Nov-13	10	11	\$32.32	Yes	\$43.99	\$11.67

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1374	20-Nov-13	10	12	\$33.44	Yes	\$43.99	\$10.55
1375	20-Nov-13	11	1	\$35.45	Yes	\$43.99	\$8.54
1376	20-Nov-13	11	2	\$32.34	Yes	\$43.99	\$11.65
1377	20-Nov-13	11	3	\$35.72	Yes	\$43.99	\$8.27
1378	20-Nov-13	11	4	\$35.88	Yes	\$43.99	\$8.11
1379	20-Nov-13	11	5	\$36.13	Yes	\$43.99	\$7.86
1380	20-Nov-13	11	6	\$36.13	Yes	\$43.99	\$7.86
1381	20-Nov-13	11	7	\$35.97	Yes	\$43.99	\$8.02
1382	20-Nov-13	11	8	\$35.71	Yes	\$43.99	\$8.28
1383	20-Nov-13	11	9	\$35.46	Yes	\$43.99	\$8.53
1384	20-Nov-13	11	10	\$36.57	Yes	\$43.99	\$7.42
1385	20-Nov-13	11	11	\$37.07	Yes	\$43.99	\$6.92
1386	20-Nov-13	11	12	\$36.82	Yes	\$43.99	\$7.17
1387	20-Nov-13	12	1	\$40.63	Yes	\$43.99	\$3.36
1388	20-Nov-13	12	2	\$40.63	Yes	\$43.99	\$3.36
1389	20-Nov-13	12	3	\$40.63	Yes	\$43.99	\$3.36
1390	20-Nov-13	12	4	\$40.33	Yes	\$43.99	\$3.66
1391	20-Nov-13	12	5	\$40.33	Yes	\$43.99	\$3.66
1392	20-Nov-13	12	6	\$36.76	Yes	\$43.99	\$7.23
1393	20-Nov-13	12	7	\$40.21	Yes	\$43.99	\$3.78
1394	20-Nov-13	12	8	\$36.62	Yes	\$43.99	\$7.37
1395	20-Nov-13	12	9	\$37.13	Yes	\$43.99	\$6.86
1396	20-Nov-13	12	10	\$36.92	Yes	\$43.99	\$7.07
1397	20-Nov-13	12	11	\$36.92	Yes	\$43.99	\$7.07
1398	20-Nov-13	12	12	\$37.17	Yes	\$43.99	\$6.82
1399	20-Nov-13	13	1	\$40.20	Yes	\$43.99	\$3.79
1400	20-Nov-13	13	2	\$40.40	Yes	\$43.99	\$3.59
1401	20-Nov-13	13	3	\$40.40	Yes	\$43.99	\$3.59
1402	20-Nov-13	13	4	\$36.70	Yes	\$43.99	\$7.29
1403	20-Nov-13	13	5	\$36.70	Yes	\$43.99	\$7.29
1404	20-Nov-13	13	6	\$40.17	Yes	\$43.99	\$3.82
1405	20-Nov-13	13	7	\$36.95	Yes	\$43.99	\$7.04
1406	20-Nov-13	13	8	\$35.93	Yes	\$43.99	\$8.06
1407	20-Nov-13	13	9	\$36.18	Yes	\$43.99	\$7.81
1408	20-Nov-13	13	10	\$36.11	Yes	\$43.99	\$7.88
1409	20-Nov-13	13	11	\$36.11	Yes	\$43.99	\$7.88
1410	20-Nov-13	13	12	\$36.36	Yes	\$43.99	\$7.63
1411	20-Nov-13	14	1	\$36.37	Yes	\$43.99	\$7.62
1412	20-Nov-13	14	2	\$36.37	Yes	\$43.99	\$7.62
1413	20-Nov-13	14	3	\$36.88	Yes	\$43.99	\$7.11
1414	20-Nov-13	14	4	\$40.01	Yes	\$43.99	\$3.98
1415	20-Nov-13	14	5	\$40.01	Yes	\$43.99	\$3.98
1416	20-Nov-13	14	6	\$40.01	Yes	\$43.99	\$3.98

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1417	20-Nov-13	14	7	\$39.89	Yes	\$43.99	\$4.10
1418	20-Nov-13	14	8	\$39.89	Yes	\$43.99	\$4.10
1419	20-Nov-13	14	9	\$39.89	Yes	\$43.99	\$4.10
1420	20-Nov-13	14	10	\$36.60	Yes	\$43.99	\$7.39
1421	20-Nov-13	14	11	\$36.60	Yes	\$43.99	\$7.39
1422	20-Nov-13	14	12	\$36.86	Yes	\$43.99	\$7.13
1423	20-Nov-13	15	1	\$36.71	Yes	\$43.99	\$7.28
1424	20-Nov-13	15	2	\$36.71	Yes	\$43.99	\$7.28
1425	20-Nov-13	15	3	\$36.71	Yes	\$43.99	\$7.28
1426	20-Nov-13	15	4	\$42.42	Yes	\$43.99	\$1.57
1427	20-Nov-13	15	5	\$43.16	Yes	\$43.99	\$0.83
1428	20-Nov-13	15	6	\$43.67	Yes	\$43.99	\$0.32
1429	20-Nov-13	15	7	\$50.30	Yes	\$43.99	(\$6.31)
1430	20-Nov-13	15	8	\$44.61	Yes	\$43.99	(\$0.62)
1431	20-Nov-13	15	9	\$50.48	Yes	\$43.99	(\$6.49)
1432	20-Nov-13	15	10	\$50.47	Yes	\$43.99	(\$6.48)
1433	20-Nov-13	15	11	\$50.47	Yes	\$43.99	(\$6.48)
1434	20-Nov-13	15	12	\$50.47	Yes	\$43.99	(\$6.48)
1435	20-Nov-13	16	1	\$43.03	Yes	\$43.99	\$0.96
1436	20-Nov-13	16	2	\$43.99	Yes	\$43.99	\$0.00
1437	20-Nov-13	16	3	\$44.94	Yes	\$43.99	(\$0.95)
1438	20-Nov-13	16	4	\$221.16	Yes	\$43.99	(\$177.17)
1439	20-Nov-13	16	5	\$221.16	Yes	\$43.99	(\$177.17)
1440	20-Nov-13	16	6	\$65.98	Yes	\$43.99	(\$21.99)
1441	20-Nov-13	16	7	\$44.52	Yes	\$43.99	(\$0.53)
1442	20-Nov-13	16	8	\$59.73	Yes	\$43.99	(\$15.74)
1443	20-Nov-13	16	9	\$59.88	Yes	\$43.99	(\$15.89)
1444	20-Nov-13	16	10	\$60.11	Yes	\$43.99	(\$16.12)
1445	20-Nov-13	16	11	\$63.11	Yes	\$43.99	(\$19.12)
1446	20-Nov-13	16	12	\$63.36	Yes	\$43.99	(\$19.37)
1447	20-Nov-13	17	1	\$43.33	Yes	\$43.99	\$0.66
1448	20-Nov-13	17	2	\$42.83	Yes	\$43.99	\$1.16
1449	20-Nov-13	17	3	\$44.48	Yes	\$43.99	(\$0.49)
1450	20-Nov-13	17	4	\$41.08	Yes	\$43.99	\$2.91
1451	20-Nov-13	17	5	\$41.08	Yes	\$43.99	\$2.91
1452	20-Nov-13	17	6	\$45.34	Yes	\$43.99	(\$1.35)
1453	20-Nov-13	17	7	\$49.42	Yes	\$43.99	(\$5.43)
1454	20-Nov-13	17	8	\$53.22	Yes	\$43.99	(\$9.23)
1455	20-Nov-13	17	9	\$60.55	Yes	\$43.99	(\$16.56)
1456	20-Nov-13	17	10	\$53.86	Yes	\$43.99	(\$9.87)
1457	20-Nov-13	17	11	\$59.53	Yes	\$43.99	(\$15.54)
1458	20-Nov-13	17	12	\$64.68	Yes	\$43.99	(\$20.69)
1459	20-Nov-13	18	1	\$48.71	No	\$43.99	(\$4.72)

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1460	20-Nov-13	18	2	\$50.16	No	\$43.99	(\$6.17)
1461	20-Nov-13	18	3	\$54.01	No	\$43.99	(\$10.02)
1462	20-Nov-13	18	4	\$56.43	No	\$43.99	(\$12.44)
1463	20-Nov-13	18	5	\$63.86	No	\$43.99	(\$19.87)
1464	20-Nov-13	18	6	\$63.86	No	\$43.99	(\$19.87)
1465	20-Nov-13	18	7	\$55.97	No	\$43.99	(\$11.98)
1466	20-Nov-13	18	8	\$62.61	No	\$43.99	(\$18.62)
1467	20-Nov-13	18	9	\$65.11	No	\$43.99	(\$21.12)
1468	20-Nov-13	18	10	\$64.08	No	\$43.99	(\$20.09)
1469	20-Nov-13	18	11	\$66.47	No	\$43.99	(\$22.48)
1470	20-Nov-13	18	12	\$67.09	No	\$43.99	(\$23.10)
1471	20-Nov-13	19	1	\$50.73	Yes	\$43.99	(\$6.74)
1472	20-Nov-13	19	2	\$49.94	Yes	\$43.99	(\$5.95)
1473	20-Nov-13	19	3	\$41.34	Yes	\$43.99	\$2.65
1474	20-Nov-13	19	4	\$43.34	Yes	\$43.99	\$0.65
1475	20-Nov-13	19	5	\$47.63	Yes	\$43.99	(\$3.64)
1476	20-Nov-13	19	6	\$47.63	Yes	\$43.99	(\$3.64)
1477	20-Nov-13	19	7	\$50.74	Yes	\$43.99	(\$6.75)
1478	20-Nov-13	19	8	\$47.12	Yes	\$43.99	(\$3.13)
1479	20-Nov-13	19	9	\$48.22	Yes	\$43.99	(\$4.23)
1480	20-Nov-13	19	10	\$48.64	Yes	\$43.99	(\$4.65)
1481	20-Nov-13	19	11	\$47.05	Yes	\$43.99	(\$3.06)
1482	20-Nov-13	19	12	\$47.05	Yes	\$43.99	(\$3.06)
1483	20-Nov-13	20	1	\$47.50	Yes	\$43.99	(\$3.51)
1484	20-Nov-13	20	2	\$46.78	Yes	\$43.99	(\$2.79)
1485	20-Nov-13	20	3	\$42.77	Yes	\$43.99	\$1.22
1486	20-Nov-13	20	4	\$45.19	Yes	\$43.99	(\$1.20)
1487	20-Nov-13	20	5	\$54.99	Yes	\$43.99	(\$11.00)
1488	20-Nov-13	20	6	\$56.94	Yes	\$43.99	(\$12.95)
1489	20-Nov-13	20	7	\$60.25	Yes	\$43.99	(\$16.26)
1490	20-Nov-13	20	8	\$59.88	Yes	\$43.99	(\$15.89)
1491	20-Nov-13	20	9	\$59.08	Yes	\$43.99	(\$15.09)
1492	20-Nov-13	20	10	\$58.11	Yes	\$43.99	(\$14.12)
1493	20-Nov-13	20	11	\$49.94	Yes	\$43.99	(\$5.95)
1494	20-Nov-13	20	12	\$46.15	Yes	\$43.99	(\$2.16)
1495	22-Nov-13	8	7	\$45.83	No	\$45.44	(\$0.39)
1496	22-Nov-13	8	8	\$45.83	No	\$45.44	(\$0.39)
1497	22-Nov-13	8	9	\$59.28	No	\$45.44	(\$13.84)
1498	22-Nov-13	8	10	\$59.28	No	\$45.44	(\$13.84)
1499	22-Nov-13	8	11	\$51.50	No	\$45.44	(\$6.06)
1500	22-Nov-13	8	12	\$61.65	No	\$45.44	(\$16.21)
1501	22-Nov-13	9	1	\$64.68	No	\$45.44	(\$19.24)
1502	22-Nov-13	9	2	\$71.09	No	\$45.44	(\$25.65)

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1503	22-Nov-13	9	3	\$69.16	No	\$45.44	(\$23.72)
1504	22-Nov-13	9	4	\$63.87	No	\$45.44	(\$18.43)
1505	22-Nov-13	9	5	\$64.72	No	\$45.44	(\$19.28)
1506	22-Nov-13	9	6	\$224.35	No	\$45.44	(\$178.91)
1507	22-Nov-13	9	7	\$299.51	No	\$45.44	(\$254.07)
1508	22-Nov-13	9	8	\$224.35	No	\$45.44	(\$178.91)
1509	22-Nov-13	9	9	\$224.35	No	\$45.44	(\$178.91)
1510	22-Nov-13	9	10	\$169.41	No	\$45.44	(\$123.97)
1511	22-Nov-13	9	11	\$34.01	No	\$45.44	\$11.43
1512	22-Nov-13	9	12	\$77.05	No	\$45.44	(\$31.61)
1513	22-Nov-13	10	1	\$69.20	No	\$45.44	(\$23.76)
1514	22-Nov-13	10	2	\$67.16	No	\$45.44	(\$21.72)
1515	22-Nov-13	10	3	\$66.94	No	\$45.44	(\$21.50)
1516	22-Nov-13	10	4	\$79.57	No	\$45.44	(\$34.13)
1517	22-Nov-13	10	5	\$81.02	No	\$45.44	(\$35.58)
1518	22-Nov-13	10	6	\$81.75	No	\$45.44	(\$36.31)
1519	22-Nov-13	10	7	\$70.16	No	\$45.44	(\$24.72)
1520	22-Nov-13	10	8	\$81.67	No	\$45.44	(\$36.23)
1521	22-Nov-13	10	9	\$221.24	No	\$45.44	(\$175.80)
1522	22-Nov-13	10	10	\$221.77	No	\$45.44	(\$176.33)
1523	22-Nov-13	10	11	\$221.77	No	\$45.44	(\$176.33)
1524	22-Nov-13	10	12	\$79.48	No	\$45.44	(\$34.04)
1525	22-Nov-13	11	1	\$63.43	No	\$45.44	(\$17.99)
1526	22-Nov-13	11	2	\$52.54	No	\$45.44	(\$7.10)
1527	22-Nov-13	11	3	\$45.44	No	\$45.44	(\$0.00)
1528	22-Nov-13	11	4	\$45.44	No	\$45.44	\$0.00
1529	22-Nov-13	11	5	\$45.14	No	\$45.44	\$0.30
1530	22-Nov-13	11	6	\$45.32	No	\$45.44	\$0.12
1531	22-Nov-13	11	7	\$44.80	No	\$45.44	\$0.64
1532	22-Nov-13	11	8	\$57.57	No	\$45.44	(\$12.13)
1533	22-Nov-13	11	9	\$56.57	No	\$45.44	(\$11.13)
1534	22-Nov-13	11	10	\$54.54	No	\$45.44	(\$9.10)
1535	22-Nov-13	11	11	\$46.63	No	\$45.44	(\$1.19)
1536	22-Nov-13	11	12	\$45.86	No	\$45.44	(\$0.42)
1537	22-Nov-13	12	1	\$42.35	No	\$45.44	\$3.09
1538	22-Nov-13	12	2	\$39.48	No	\$45.44	\$5.96
1539	22-Nov-13	12	3	\$39.48	No	\$45.44	\$5.96
1540	22-Nov-13	12	4	\$47.94	No	\$45.44	(\$2.50)
1541	22-Nov-13	12	5	\$39.48	No	\$45.44	\$5.96
1542	22-Nov-13	12	6	\$44.51	No	\$45.44	\$0.93
1543	22-Nov-13	12	7	\$45.14	No	\$45.44	\$0.30
1544	22-Nov-13	12	8	\$45.44	No	\$45.44	\$0.00
1545	22-Nov-13	12	9	\$44.91	No	\$45.44	\$0.53

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1546	22-Nov-13	12	10	\$44.49	No	\$45.44	\$0.95
1547	22-Nov-13	12	11	\$44.48	No	\$45.44	\$0.96
1548	22-Nov-13	12	12	\$44.73	No	\$45.44	\$0.71
1549	22-Nov-13	13	1	\$47.87	No	\$45.44	(\$2.43)
1550	22-Nov-13	13	2	\$48.56	No	\$45.44	(\$3.12)
1551	22-Nov-13	13	3	\$49.59	No	\$45.44	(\$4.15)
1552	22-Nov-13	13	4	\$49.03	No	\$45.44	(\$3.59)
1553	22-Nov-13	13	5	\$48.01	No	\$45.44	(\$2.57)
1554	22-Nov-13	13	6	\$48.00	No	\$45.44	(\$2.56)
1555	22-Nov-13	13	7	\$46.58	No	\$45.44	(\$1.14)
1556	22-Nov-13	13	8	\$47.35	No	\$45.44	(\$1.91)
1557	22-Nov-13	13	9	\$48.38	No	\$45.44	(\$2.94)
1558	22-Nov-13	13	10	\$50.32	No	\$45.44	(\$4.88)
1559	22-Nov-13	13	11	\$49.53	No	\$45.44	(\$4.09)
1560	22-Nov-13	13	12	\$50.32	No	\$45.44	(\$4.88)
1561	22-Nov-13	14	1	\$48.42	Yes	\$45.44	(\$2.98)
1562	22-Nov-13	14	2	\$47.54	Yes	\$45.44	(\$2.10)
1563	22-Nov-13	14	3	\$51.68	Yes	\$45.44	(\$6.24)
1564	22-Nov-13	14	4	\$52.73	Yes	\$45.44	(\$7.29)
1565	22-Nov-13	14	5	\$55.66	Yes	\$45.44	(\$10.22)
1566	22-Nov-13	14	6	\$55.57	Yes	\$45.44	(\$10.13)
1567	22-Nov-13	14	7	\$51.56	Yes	\$45.44	(\$6.12)
1568	22-Nov-13	14	8	\$46.82	Yes	\$45.44	(\$1.38)
1569	22-Nov-13	14	9	\$47.23	Yes	\$45.44	(\$1.79)
1570	22-Nov-13	14	10	\$48.03	Yes	\$45.44	(\$2.59)
1571	22-Nov-13	14	11	\$48.26	Yes	\$45.44	(\$2.82)
1572	22-Nov-13	14	12	\$46.22	Yes	\$45.44	(\$0.78)
1573	22-Nov-13	15	1	\$47.06	Yes	\$45.44	(\$1.62)
1574	22-Nov-13	15	2	\$46.37	Yes	\$45.44	(\$0.93)
1575	22-Nov-13	15	3	\$49.11	Yes	\$45.44	(\$3.67)
1576	22-Nov-13	15	4	\$48.04	Yes	\$45.44	(\$2.60)
1577	22-Nov-13	15	5	\$47.02	Yes	\$45.44	(\$1.58)
1578	22-Nov-13	15	6	\$47.02	Yes	\$45.44	(\$1.58)
1579	22-Nov-13	15	7	\$47.49	Yes	\$45.44	(\$2.05)
1580	22-Nov-13	15	8	\$51.60	Yes	\$45.44	(\$6.16)
1581	22-Nov-13	15	9	\$49.21	Yes	\$45.44	(\$3.77)
1582	22-Nov-13	15	10	\$46.38	Yes	\$45.44	(\$0.94)
1583	22-Nov-13	15	11	\$47.41	Yes	\$45.44	(\$1.97)
1584	22-Nov-13	15	12	\$46.01	Yes	\$45.44	(\$0.57)
1585	22-Nov-13	16	1	\$44.92	Yes	\$45.44	\$0.52
1586	22-Nov-13	16	2	\$44.92	Yes	\$45.44	\$0.52
1587	22-Nov-13	16	3	\$44.92	Yes	\$45.44	\$0.52
1588	22-Nov-13	16	4	\$45.44	Yes	\$45.44	\$0.00

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1589	22-Nov-13	16	5	\$45.14	Yes	\$45.44	\$0.30
1590	22-Nov-13	16	6	\$45.44	Yes	\$45.44	\$0.00
1591	22-Nov-13	16	7	\$44.30	Yes	\$45.44	\$1.14
1592	22-Nov-13	16	8	\$45.14	Yes	\$45.44	\$0.30
1593	22-Nov-13	16	9	\$46.29	Yes	\$45.44	(\$0.85)
1594	22-Nov-13	16	10	\$47.66	Yes	\$45.44	(\$2.22)
1595	22-Nov-13	16	11	\$49.29	Yes	\$45.44	(\$3.85)
1596	22-Nov-13	16	12	\$48.44	Yes	\$45.44	(\$3.00)
1597	22-Nov-13	17	1	\$37.49	Yes	\$45.44	\$7.95
1598	22-Nov-13	17	2	\$38.86	Yes	\$45.44	\$6.58
1599	22-Nov-13	17	3	\$41.31	Yes	\$45.44	\$4.13
1600	22-Nov-13	17	4	\$41.77	Yes	\$45.44	\$3.67
1601	22-Nov-13	17	5	\$41.77	Yes	\$45.44	\$3.67
1602	22-Nov-13	17	6	\$45.44	Yes	\$45.44	\$0.00
1603	22-Nov-13	17	7	\$37.51	Yes	\$45.44	\$7.93
1604	22-Nov-13	17	8	\$39.75	Yes	\$45.44	\$5.69
1605	22-Nov-13	17	9	\$44.61	Yes	\$45.44	\$0.83
1606	22-Nov-13	17	10	\$52.19	Yes	\$45.44	(\$6.75)
1607	22-Nov-13	17	11	\$66.04	Yes	\$45.44	(\$20.60)
1608	22-Nov-13	17	12	\$69.35	Yes	\$45.44	(\$23.91)
1609	22-Nov-13	18	1	\$41.82	No	\$45.44	\$3.62
1610	22-Nov-13	18	2	\$41.98	No	\$45.44	\$3.46
1611	22-Nov-13	18	3	\$48.23	No	\$45.44	(\$2.79)
1612	22-Nov-13	18	4	\$44.62	No	\$45.44	\$0.82
1613	22-Nov-13	18	5	\$48.18	No	\$45.44	(\$2.74)
1614	22-Nov-13	18	6	\$49.68	No	\$45.44	(\$4.24)
1615	22-Nov-13	18	7	\$51.98	No	\$45.44	(\$6.54)
1616	22-Nov-13	18	8	\$59.39	No	\$45.44	(\$13.95)
1617	22-Nov-13	18	9	\$59.39	No	\$45.44	(\$13.95)
1618	22-Nov-13	18	10	\$48.10	No	\$45.44	(\$2.66)
1619	22-Nov-13	18	11	\$48.10	No	\$45.44	(\$2.66)
1620	22-Nov-13	18	12	\$46.71	No	\$45.44	(\$1.27)
1621	22-Nov-13	19	1	\$39.48	Yes	\$45.44	\$5.96
1622	22-Nov-13	19	2	\$39.48	Yes	\$45.44	\$5.96
1623	22-Nov-13	19	3	\$39.48	Yes	\$45.44	\$5.96
1624	22-Nov-13	19	4	\$39.48	Yes	\$45.44	\$5.96
1625	22-Nov-13	19	5	\$37.58	Yes	\$45.44	\$7.86
1626	22-Nov-13	19	6	\$38.41	Yes	\$45.44	\$7.03
1627	22-Nov-13	19	7	\$38.62	Yes	\$45.44	\$6.82
1628	22-Nov-13	19	8	\$39.48	Yes	\$45.44	\$5.96
1629	22-Nov-13	19	9	\$45.44	Yes	\$45.44	\$0.00
1630	22-Nov-13	19	10	\$44.80	Yes	\$45.44	\$0.64
1631	22-Nov-13	19	11	\$45.44	Yes	\$45.44	\$0.00

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1632	22-Nov-13	19	12	\$45.38	Yes	\$45.44	\$0.06
1633	22-Nov-13	20	1	\$44.90	Yes	\$45.44	\$0.54
1634	22-Nov-13	20	2	\$43.88	Yes	\$45.44	\$1.56
1635	22-Nov-13	20	3	\$42.15	Yes	\$45.44	\$3.29
1636	22-Nov-13	20	4	\$43.89	Yes	\$45.44	\$1.55
1637	22-Nov-13	20	5	\$45.58	Yes	\$45.44	(\$0.14)
1638	22-Nov-13	20	6	\$44.77	Yes	\$45.44	\$0.67
1639	22-Nov-13	20	7	\$45.44	Yes	\$45.44	\$0.00
1640	22-Nov-13	20	8	\$45.14	Yes	\$45.44	\$0.30
1641	22-Nov-13	20	9	\$44.70	Yes	\$45.44	\$0.74
1642	22-Nov-13	20	10	\$44.11	Yes	\$45.44	\$1.33
1643	22-Nov-13	20	11	\$43.97	Yes	\$45.44	\$1.47
1644	22-Nov-13	20	12	\$42.05	Yes	\$45.44	\$3.39

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

In November 2013, the ISO applied the exceptional dispatch bid mitigation to the exceptional dispatches due to noncompetitive constraints. Table 10 shows the costs by instruction type in November. With exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches were \$ 121,835. Without the exceptional dispatch bid mitigation, the costs for these types of exceptional dispatches would be \$ 148,693. The cost saving from the exceptional dispatch bid mitigation was \$ 26,858.

Table 10: Bid Mitigation Analysis for November

Type	Number of Resources	Costs without Bid Mitigation	Costs with Bid Mitigation	Cost Saving
NONTMOD	8	\$139,316.58	\$119,547.72	\$19,768.86
TMODEL5	5	\$9,376.42	\$2,287.01	\$7,089.41
Total	13	\$148,693.00	\$121,834.73	\$26,858.27

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 28th day of February 2014.

Is/ Anna Pascuzzo

Anna Pascuzzo