California Independent System Operator



February 1, 2016

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. ER08-1178-000 and EL08-88-000 October 2015 Exceptional Dispatch Report (Chart 2 Data)

Dear Secretary Bose:

Pursuant to the orders issued in the above-referenced dockets on September 2, 2009 and May 4, 2010, the California Independent System Operator Corporation (CAISO) submits the attached report. The report provides Exceptional Dispatch information that the Commission directed be included in "Chart 2," which is set forth in Appendix A to the September 2, 2009 order, as modified by the May 4, 2010 order.

The attached report provides Chart 2 data for the month of October 2015. The report also includes the price impact analysis for October 2015 required by paragraph 44 of the September 2, 2009 order, as well as the degree of mitigation analysis required by CAISO tariff section 34.9.4 for October` 2015.

Respectfully submitted,

By: /s/ Sidney L. Mannheim

Roger E. Collanton General Counsel Sidney L. Mannheim Assistant General Counsel California Independent System Operator Corporation 250 Outcropping Way Folsom, CA 95630 Tel: (916) 608-7144 Fax: (916) 608-7222 smannheim@caiso.com



Exceptional Dispatch Report

Table 2: October 2015

Market Quality and Renewable Integration Februa

February 1, 2016

CAISO 250 Outcropping Way Folsom, California 95630 (916) 351-4400

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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 October 2015.

This report contains a price impact analysis as prescribed by FERC in its September 2 order. The price impact analysis for the month of September is presented in Appendix B. This report also includes mitigation analysis for October 2015 required by section 34.9.4 of the CAISO tariff. This analysis compares those Exceptional Dispatches subject to bid mitigation (i.e. Exceptional Dispatches to address noncompetitive constraints and Delta Dispatch), and determines 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 September is presented in Appendix C.

The Nature of Exceptional Dispatch

The CAISO can issue exceptional dispatch instructions for a resource as a preday-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. A real-time exceptional dispatch above the resource's dayahead award is an incremental exceptional dispatch instruction and a real-time exceptional dispatch below the day-ahead award is considered a decremental dispatch instruction. The CAISO issues exceptional dispatch instructions to maintain the reliability of the grid when the market software cannot do so. Whenever the CAISO issues an exceptional dispatch instruction, the operator logs the dispatch and the associated reason. Reliability requirements are calculated for both local area and the system wide needs, and are classified into various requirements including local generation, transmission management, nonmodeled transmission outages, ramping and intertie emergency assistance. Whenever the CAISO issues an exceptional dispatch instruction, the operators log these instructions and the associated reason for each instruction.

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

The following additional reasons for exceptional dispatch instructions in 2015 include: 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 CAISO 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 CAISO issues an exceptional dispatch to commit this resource in 2400 so 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 October, which are self explanatory.

The data 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 October 2015. 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:

- The MW column shows the range of exceptional dispatch instruction in MW for the classification.
- The Commitment column specifies if there was a unit commitment for the classification.
- The INC/DEC/NA column specifies if there was an incremental dispatch (INC), a decremental dispatch (DEC), or only a unit commitment (NA). The Begin Time and End Time columns show the start and end time of exceptional dispatch for the classification respectively.

¹ A list of all of the CAISO'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 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. The CAISO 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.³
- The CC6470 column shows the total imbalance energy costs for the classification. This cost contains the portion of exceptional dispatch instruction settled as optimal energy due to its bid price being less than the LMP in the relevant 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 settled at the resource LMP.
- The CC6470-DEC column shows that portion of decremental exceptional dispatch instruction settled at the resource specific LMP. Both these charge codes are portions 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 for example in Attachment A.

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

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

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

⁶ For further details please refer to the BPM configuration Guide: Real Time Exceptional Dispatch Uplift Settlement published on the CAISO's website.

Table 1: Exceptional Dispatches in October 2015

				CI	hart 2: Tab	le of E	xceptior	nal Disp	atches	s for Po	eriod	01/Octob	oer/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662
1	RT	Bridging Schedules	SCE	LA Basin	10/19/201 5	88	No	INC	2	22:00	23:5 9	-3.99	0.00	0.00	-44.30	0.00	0.00	0.00	0.00	0.00	0.00
2	RT	Bridging Schedules	SDG&E	San Diego-IV	10/7/2015	20	Yes	INC	4	20:00	23:5 9	-15.63	4552.68	0.00	578.85	0.00	0.00	0.00	0.00	0.00	0.00
3	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	10/15/201 5	45	No	INC	6	14:00	19:5 9	45.91	0.00	0.00	-3029.09	0.00	0.00	0.00	0.00	0.00	0.00
4	RT	Conditions beyond the control of the CAISO	SDG&E	San Diego-IV	10/15/201 5	20- 40	Yes	INC	5	15:40	19:5 9	24.67	4664.91	0.00	-1398.62	0.01	-0.22	0.00	-0.31	0.00	0.00
5	RT	Contingency Dispatch	PG&E	Bay Area	10/16/201 5	360	No	INC	1	20:00	20:2 2	66.34	0.00	0.00	-1900.96	0.00	0.00	0.00	0.00	0.00	0.00
6	RT	Contingency Dispatch	SCE	LA Basin	10/16/201 5	380- 1058	No	INC	1	19:50	20:4 4	6.43	0.00	0.00	-197.31	0.00	0.00	0.00	0.00	0.00	0.00
7	RT	Contingency Dispatch	SDG&E	San Diego-IV	10/16/201 5	30	No	INC	1	20:00	20:2 2	12.40	0.00	0.00	-377.80	0.00	0.00	0.00	0.00	0.00	0.00
8	RT	Fast Start Unit Management	SCE	Big Creek- Ventura	10/5/2015	0	No	INC	1	20:05	21:0 4	-10.16	-304.71	0.00	115.42	-12.25	0.00	189.44	0.00	0.00	0.00
9	RT	Fast Start Unit Management	SCE	Big Creek- Ventura	10/26/201 5	0	No	INC	1	22:10	23:0 9	-15.24	-1094.62	0.00	357.58	-3.93	0.00	0.22	0.00	0.00	0.00
10	RT	Fast Start Unit Management	SCE	LA Basin	10/8/2015 10/23/201	0	No	INC	1	10:50	11:4 9 19:5	13.13	1212.08	0.00	-517.42	-7.56	0.00	0.00	0.00	0.00	0.00
11	RT	Fast Start Unit Management	SDG&E	San Diego-IV	10/23/201 5 10/30/201	50	No	INC	12	8:00	19.5 9 16:3	88.77	18330.72	1458.00	-3272.75	3.85	-141.07	0.00	0.00	0.00	0.00
12	RT	Fast Start Unit Management Incomplete or Inaccurate	SDG&E	San Diego-IV	5	0	No	INC	2	15:15	10.3 4 13:5	-17.55	379.63	0.00	-34.84	-19.19	0.00	0.00	0.00	0.00	0.00
13	RT	Transmission	N/A	N/A	10/9/2015	30	No	INC	7	7:05	9 18:5	150.47	-211.99	0.00	-4920.18	49.58	-1624.49	0.00	0.00	-273.46	0.00
14	RT	Transmission Incomplete or Inaccurate	PG&E	Sierra	10/9/2015	21	No	INC	1	18:00	9 18:2	-0.11	612.70	226.13	-221.10	0.00	0.00	0.00	0.00	0.00	0.00
15	RT	Transmission Incomplete or Inaccurate	SCE	LA Basin	10/9/2015 10/17/201	248	No	INC	7	11:45	9 18:4	-257.97	6309.26	0.00	55606.96	2.57	-89.73	0.00	-0.03	-3.50	0.00
16	RT	Transmission Incomplete or Inaccurate	SDG&E	San Diego-IV	5	45	No	INC	9	10:00	4 23:5	15.32	15862.66	548.25	-481.18	0.07	-2.05	0.00	0.00	-0.47	0.00
17	RT	Transmission	SDG&E	San Diego-IV	5	25	No	INC	4	20:37	9	-6.97	0.00	0.00	199.43	-3.08	0.00	80.26	0.00	-48.86	0.00

				C	hart 2: Tab	le of E	xceptior	nal Disp	batche	s for P	eriod	01/Octob	oer/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
18	RT	Load Forecast Uncertainty	PG&E	Bay Area	10/9/2015	45	No	INC	13	11:00	23:5 9	-101.88	48521.44	43527.03	-623.74	0.00	0.00	0.00	-0.14	0.00	0.00
19	RT	Load Forecast Uncertainty	PG&E	Fresno	10/4/2015	0	No	INC	2	14:43	15:4 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	RT	Load Forecast Uncertainty	PG&E	Fresno	10/5/2015	83	No	INC	2	15:25	16:5 9	14.33	0.00	0.00	-5292.69	0.00	0.00	0.00	0.00	0.00	0.00
21	RT	Load Forecast Uncertainty	PG&E	N/A	10/5/2015	147	No	INC	5	8:10	12:5 9	67.67	42264.55	0.00	-1618.40	0.00	0.00	0.00	0.00	0.00	0.00
22	RT	Load Forecast Uncertainty	PG&E	N/A	10/6/2015	47	No	INC	9	6:45	14:5 9	466.21	19151.43	1297.34	-11925.43	0.00	0.00	0.00	0.00	0.00	0.00
23	RT	Load Forecast Uncertainty	PG&E	N/A	10/7/2015	47	No	INC	5	7:25	11:5 9	10.51	7197.97	0.00	-551.37	0.00	0.00	0.00	0.00	0.00	0.00
23	RT	Load Forecast Uncertainty	PG&E	N/A	10/13/201	52- 192	No	INC	11	13:30	23:5 9	0.03	20079.32	4530.38	-3.73	0.00	0.00	0.00	0.00	0.00	0.00
			PG&E	N/A	10/25/201			INC			20:5										
25	RT	Load Forecast Uncertainty		Big Creek-	5	47	No		10	11:45	9 23:5	61.81	11854.49	338.70	-2081.25	0.00	0.00	0.00	0.00	0.00	0.00
26	RT	Load Forecast Uncertainty	SCE	Ventura	10/9/2015	50 25-	No	INC	16	8:00	9 23:5	81.80	17132.28	0.00	-11919.69	0.00	0.00	0.00	0.00	0.00	0.00
27	RT	Load Forecast Uncertainty	SCE	LA Basin	10/7/2015	85	Yes	INC	17	7:00	9 23:5	51.09	11995.25	0.00	-2186.19	3.25	-122.84	0.00	0.00	0.00	0.00
28	RT	Load Forecast Uncertainty	SCE	LA Basin	10/8/2015	75	No	INC	21	3:10	9	17.05	16328.25	0.00	-435.07	0.00	0.00	0.00	-0.04	0.00	0.00
29	RT	Load Forecast Uncertainty	SCE	LA Basin	10/9/2015	25- 140	Yes	INC	17	7:00	23:5 9	-473.26	10375.23	0.00	65298.19	2.57	-89.73	0.00	-0.12	-3.50	0.00
30	RT	Load Forecast Uncertainty	SCE	LA Basin	10/11/201 5	10	No	INC	17	7:00	23:5 9	-5.72	21724.25	0.00	12761.81	0.00	0.00	0.00	-0.25	0.00	0.00
31	RT	Load Forecast Uncertainty	SCE	LA Basin	10/12/201 5	170- 625	Yes	INC	12	12:40	23:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	RT	Load Forecast Uncertainty	SCE	LA Basin	10/13/201 5	170	No	INC	11	13:00	23:5 9	-114.47	97009.79	0.00	5561.51	0.00	0.00	0.00	0.00	0.00	0.00
33	RT	Load Forecast Uncertainty	SCE	LA Basin	10/14/201	25	Yes	INC	11	13:00	23:5 9	45.87	29292.70	25177.19		0.00	0.00	0.00	0.00	0.00	0.00
34	RT	Load Forecast Uncertainty	SCE	LA Basin	10/25/201 5	10	No	INC	9	12:00	20:5	-13.69	9525.15	0.00	7222.29	0.00	0.00	0.00	-0.58	0.00	0.00
35	RT	Load Forecast Uncertainty		San Diego-IV	-	20- 40	No	INC	11	13:00	23:5	136.46	5773.16	0.00	-54226.22	0.00	-0.08	0.00	-0.04	0.00	0.00

				CI	hart 2: Tab	le of E	xceptior	nal Disp	oatches	s for Pe	eriod (01/Octob	oer/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
36	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/7/2015	20- 40	No	INC	13	11:00	23:5 9	-93.54	29530.05	13455.40	4024.77	0.01	-0.23	0.00	-0.05	0.00	0.00
37	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/8/2015	40	No	INC	12	12:00	23:5 9	-6.41	5586.28	0.00	-876.83	0.00	-0.12	0.00	-0.24	0.00	0.00
38	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/9/2015	20	Yes	INC	20	4:00	23:5 9	57.15	5762.29	0.00	-7597.24	0.00	0.00	0.00	-1.29	0.00	0.00
39	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/10/201 5	20- 60	No	INC	12	12:47	23:5 9	6.52	1669.85	0.00	-1784.47	0.00	0.00	0.00	0.00	0.00	0.00
40	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/13/201 5	40	No	INC	1	17:00	17:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/14/201 5	20	Yes	INC	14	10:30	23:5 9	49.84	19477.87	6675.97	-7244.79	0.00	0.00	0.00	0.00	0.00	0.00
42	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/25/201 5	20- 40	No	INC	12	9:30	20:5 9	184.88	3926.22	0.00	-8816.83	0.00	0.00	0.00	-0.30	0.00	0.00
43	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	10/28/201 5	20	No	INC	12	7:30	19:2 9	-0.02	8856.50	4167.29	1.65	0.00	0.00	0.00	0.00	0.00	0.00
44	RT	Load Pull	PG&E	Fresno	10/5/2015	44	No	INC	2	17:00	18:5 9	0.00	4353.00	405.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	RT	Load Pull	PG&E	Stockton	10/6/2015	89	No	INC	5	15:30	19:5 9	165.19	28198.96	5671.76	-5806.00	0.00	0.00	0.00	0.00	0.00	0.00
46	RT	Load Pull	SCE	LA Basin	10/1/2015	190- 320	No	INC	11	9:30	19:5 9	76.49	0.00	0.00	-3613.93	0.00	0.00	0.00	0.00	0.00	0.00
47	RT	Load Pull	SCE	LA Basin	10/2/2015	130	No	INC	6	14:00	19:5 9	-41.07	0.00	0.00	954.97	0.00	0.00	0.00	0.00	0.00	0.00
48	RT	Load Pull	SCE	LA Basin	10/5/2015	138	No	INC	2	17:00	18:5 9	49.74	0.00	114.33	-1485.24	0.00	0.00	0.00	0.00	0.00	0.00
49	RT	Load Pull	SCE	LA Basin	10/7/2015	70	No	INC	5	15:05	19:5 9	51.69	9396.28	0.00	-2238.95	3.25	-122.84	0.00	0.00	0.00	0.00
50	RT	Load Pull	SCE	LA Basin	10/12/201 5	190	No	INC	6	14:00	19:5 9	-138.60	0.00	0.00	7634.34	2.38	-85.34	0.00	0.00	0.00	0.00
51	RT	Load Pull	SDG&E	San Diego-IV	10/1/2015	63- 131	No	INC	9	11:30	19:5 9	-22.62	7607.04	0.00	191.84	0.00	0.00	0.00	0.00	0.00	0.00
52	RT	Load Pull	SDG&E	San Diego-IV	10/2/2015	68	No	INC	11	10:30	20:5 9	915.88	36928.11	0.00	-24127.78	0.00	-0.10	0.00	0.00	0.00	0.00
53	RT	Load Pull	SDG&E	San Diego-IV	10/5/2015	45	No	INC	2	17:00	18:5 9	-7.30	1893.27	343.06	137.62	0.00	0.00	0.00	0.00	0.00	0.00

				C	hart 2: Tab	le of E	xceptio	nal Disp	batches	s for Pe	eriod	01/Octob	per/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
54	RT	Operating Procedure Number and Constraint	N/A	N/A	10/5/2015	13- 70	No	INC	15	9:05	23:2 9	-11.03	1229.57	0.00	228.77	0.00	0.00	0.00	0.00	0.00	0.00
55	RT	Operating Procedure Number and Constraint	N/A	N/A	10/10/201 5	15	No	INC	2	20:00	21:1 9	-12.25	0.00	0.00	91.90	-13.60	0.00	125.61	0.00	0.00	0.00
56	RT	Operating Procedure Number and Constraint	SDG&E	San Diego-IV	10/2/2015	20	No	INC	8	15:00	22:5 9	1126.6 3	31097.36	0.00	-29297.58	0.00	0.00	0.00	0.00	0.00	0.00
57	RT	Operating Procedure Number and Constraint	SDG&E	San Diego-IV	10/4/2015	22- 87	No	INC	11	9:46	19:5 9	-3.55	6171.44	0.00	-1159.12	0.00	0.00	0.00	0.00	0.00	0.00
58	RT	Operating Procedure Number and Constraint	SDG&E	San Diego-IV	10/10/201 5	612	No	INC	1	12:15	12:3 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/1/2015	16	No	INC	18	5:10	22:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/2/2015	16	No	INC	16	9:00	0:44	7.37	0.00	0.00	-205.81	7.50	-206.78	0.00	0.00	0.00	0.00
61	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/6/2015	16- 32	No	INC	15	9:40	23:5 9	-5.94	105.31	0.00	144.43	0.79	-22.03	0.00	0.00	0.00	0.00
62	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/7/2015	16- 60	No	INC	23	0:00	22:5 9	-17.58	1134.38	0.00	659.66	0.00	0.00	0.00	0.00	0.00	0.00
63	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/8/2015	70	No	INC	9	12:10	20:5 9	-22.69	0.00	0.00	664.35	-2.83	0.00	79.15	0.00	0.00	0.00
64	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/12/201 5	12- 16	No	INC	10	4:50	13:5 9	-0.10	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00
65	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/13/201 5	32- 120	No	INC	17	6:30	22:5 9	151.23	322.74	0.00	-4075.75	53.81	-2059.18	0.00	0.00	0.00	0.00
66	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/14/201 5	59- 64	No	INC	7	17:10	23:5 9	-10.07	0.00	0.00	332.81	-5.87	0.00	167.37	0.00	0.00	0.00
67	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/16/201 5	65	No	INC	3	19:15	21:5 9	3.75	0.00	0.00	-274.19	-0.02	0.00	0.55	0.00	0.00	0.00
68	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/17/201 5	15- 100	No	INC	20	4:35	23:5 9	-0.23	0.00	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00
69	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/18/201 5	12	No	INC	6	14:45	19:5 9	-5.54	0.00	0.00	106.59	0.50	-13.99	0.00	0.00	0.00	0.00
70	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/21/201 5	12	No	INC	10	8:55	18:4 4	5.25	1294.21	0.00	-50.93	1.33	-36.80	0.00	0.00	0.00	0.00
71	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/22/201 5	12	No	INC	17	7:40	23:5 9	-27.19	0.00	0.00	769.62	0.00	0.00	0.00	0.00	0.00	0.00

				C	hart 2: Tab	le of E	xceptior	nal Disp	batche	s for Pe	eriod ()1/Octob	er/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
72	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/23/201 5	12	No	INC	18	6:10	23:5 9	116.25	413.14	0.00	-3939.15	16.00	-577.71	0.00	0.00	0.00	0.00
73	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/24/201 5	12	No	INC	20	4:10	23:5 9	203.59	1497.87	0.00	-5659.02	22.00	-749.88	0.00	0.00	0.00	0.00
74	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/25/201 5	10- 21	No	INC	16	8:15	23:5 9	82.55	406.21	0.00	-3320.05	0.09	-3.67	0.00	0.00	0.00	0.00
75	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/26/201 5	14- 65	No	INC	13	7:05	19:5 9	103.76	0.00	0.00	-2770.19	17.88	-601.37	0.00	0.00	0.00	0.00
76	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/27/201 5	14- 42	No	INC	11	7:15	17:4 4	80.05	-99.94	0.00	-2762.92	15.88	-574.59	0.00	0.00	0.00	0.00
77	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	10/28/201 5	15	No	INC	17	7:35	23:5 9	8.54	0.00	0.00	-301.33	0.00	0.00	0.00	0.00	0.00	0.00
78	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/1/2015	16	No	INC	3	5:10	7:59	-0.04	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00
79	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/2/2015	13	No	INC	12	11:20	22:5 9	0.00	0.00	0.00	-0.16	0.00	0.00	0.00	0.00	0.00	0.00
80	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/6/2015	16	No	INC	10	14:15	23:5 9	32.45	421.26	0.00	-1199.64	8.83	-241.62	0.00	0.00	-42.94	0.00
81	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/12/201 5	12- 48	No	INC	19	4:50	23:4 4	33.99	0.00	0.00	-1037.22	4.33	-155.68	0.00	0.00	0.00	0.00
82	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/15/201 5	14- 33	No	INC	24	0:00	23:5 9	1.00	0.00	0.00	-37.88	0.00	0.00	0.00	0.00	0.00	0.00
83	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/16/201 5	48- 96	No	INC	6	16:40	21:5 9	6.82	0.00	0.00	-303.24	-4.56	0.00	128.11	0.00	0.00	0.00
84	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/17/201 5	48	No	INC	3	19:15	21:5 9	-9.73	0.00	0.00	283.01	-4.75	0.00	129.59	0.00	0.00	0.00
85	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/19/201 5	15	No	INC	9	7:16	15:5 9	71.04	0.00	0.00	-2164.59	22.67	-805.34	0.00	0.00	0.00	0.00
86	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/20/201 5	25	No	INC	11	8:20	18:4 4	77.61	-841.05	0.00	-2134.01	15.93	-559.46	0.00	0.00	0.00	0.00
87	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/21/201 5	12	No	INC	10	8:55	18:4 4	17.71	0.00	0.00	-752.32	5.00	-184.18	0.00	0.00	0.00	0.00
88	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/22/201 5	12	No	INC	17	7:40	23:5 9	81.74	412.67	0.00	-2212.27	12.00	-415.42	0.00	0.00	0.00	0.00
89	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	10/23/201 5	12	No	INC	18	6:10	23:5 9	-14.83	413.14	0.00	309.34	0.00	0.00	0.00	0.00	0.00	0.00

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| RT | Operating Procedure Number
and Constraint (7110) | PG&E | Humboldt

 | 10/24/201
5 | 12 | No | INC | 20

 | 4:10 | 23:5
9 | 149.04
 | 1048.23 | 0.00 | -4305.65 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Operating Procedure Number
and Constraint (7110) | PG&E | Humboldt

 | 10/26/201
5 | 13 | No | INC | 2

 | 21:25 | 22:5
9 | 22.96
 | 288.16 | 0.00 | -688.55 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
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| RT | Operating Procedure Number
and Constraint (7110) | PG&E | Humboldt

 | 10/28/201
5 | 15-
30 | No | INC | 17

 | 7:20 | 23:5
9 | 22.41
 | -100.13 | 0.00 | -667.69 | 2.92
 | -100.19 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Operating Procedure Number
and Constraint (7110) | PG&E | Humboldt

 | 10/29/201
5 | 15 | No | INC | 1

 | 0:25 | 0:49 | 20.63
 | 0.00 | 0.00 | -503.94 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Operating Procedure Number and Constraint (7230) | PG&E | Sierra

 | 10/31/201
5 | 20 | No | INC | 1

 | 23:15 | 23:5
9 | -6.50
 | 0.00 | 0.00 | 169.04 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Operating Procedure Number
and Constraint (7430) | PG&E | Fresno

 | 10/10/201
5 | 6 | No | INC | 6

 | 3:15 | 9:14 | 0.86
 | 1217.48 | 0.00 | -73.55 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Operating Procedure Number
and Constraint (7430) | PG&E | Fresno

 | 10/11/201
5 | 6 | No | INC | 5

 | 19:50 | 0:29 | -1.84
 | 0.00 | 0.00 | -241.77 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Operating Procedure Number
and Constraint (7750) | SCE | LA Basin

 | 10/8/2015 | 71-
117 | No | INC | 8

 | 13:15 | 20:5
9 | 468.09
 | 22390.53 | 0.00 | -41870.99 | 6.39
 | -246.16 | 0.00 | -0.05 | 0.00 | 0.00
 |
| RT | Operating Procedure Number
and Constraint (7750) | SCE | N/A

 | 10/8/2015 | 353 | No | INC | 3

 | 14:55 | 17:1
4 | 188.10
 | 0.00 | 0.00 | 3375.67 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | Other Reliability Requirement | PG&E | Bay Area

 | 10/12/201
5 | 250 | No | INC | 4

 | 17:15 | 20:5
9 | -13.46
 | 0.00 | 0.00 | 541.65 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 |
| RT | | PG&E | Bay Area

 | 10/27/201
5 | 390 | No | INC | 5

 | | 23:5
9 | -67.27
 | 0.00 | 0.00 | 1444.92 | -65.34
 | 0.00 | 1385.3
8 | 0.00 | 0.00 | 0.00
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5 | | | | 1

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 | | 0.00 | 1034.36 |
 | | 0.00 | | | 0.00
 |
| RT | | PG&E | Fresno

 | 10/15/201
5 | 20- | | | 5

 | 17:20 | 21:5
9 | 5.71
 | 0.00 | 0.00 | -303.23 | 5.00
 | -275.00 | 0.00 | 0.00 | 0.00 | 0.00
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| RT | Planned Transmission
Outage and Constraint | N/A | N/A | 10/3/2015 | 24

 | No | INC
 | 7

 | 18:13

 | 0:44 | -129.83
 | -17317.86 | 0.00 | 2326.85
 | 25.74 | -728.31 | 0.00
 | 0.00 | -326.13 | 0.00 |
| RT | Planned Transmission
Outage and Constraint | N/A | N/A | 10/5/2015 | 15

 | No | INC
 | 1

 | 6:25

 | 6:59 | 0.20
 | 0.00 | 0.00 | -5.83
 | 0.00 | 0.00 | 0.00
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| RT | Planned Transmission
Outage and Constraint | N/A | N/A | 10/10/201
5 | 15-
30

 | No | INC
 | 4

 | 20:45

 | 23:5
9 | 1.36
 | 0.00 | 0.00 | -33.71
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 |
| RT | Planned Transmission
Outage and Constraint | N/A | N/A | 10/11/201
5 | 21-
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 | No | INC
 | 9

 | 8:41

 | 16:5
9 | 46.65
 | 213.17 | 0.00 | -1293.23
 | 3.61 | -92.38 | 0.00
 | 0.00 | -20.05 | 0.00 |
| RT | Planned Transmission
Outage and Constraint | N/A | N/A | 10/29/201
5 | 14-
20

 | No | INC
 | 13

 | 11:00

 | 23:5
9 | -0.73
 | 99.27 | 0.00 | -1.19
 | 1.00 | -3.13 | 0.00
 | 0.00 | -22.63 | 0.00 |
| RT | Planned Transmission | N/A | N/A | 10/30/201
5 | 16-
32

 | No | INC
 | 23

 | 1:40

 | 23:5
9 | 23.46
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 | 0.00 | 0.00 | 0.00
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| RT | Planned Transmission | N/A | N/A | 10/31/201
5 | 15-

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| | Planned Transmission | | | 10/30/201 |

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| | Planned Transmission | | , | 10/7/2015 | -326-
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| | Planned Transmission | | | | 16-
30

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| | Planned Transmission | | | 10/29/201 | 20-

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| | Planned Transmission | | | 10/30/201 | 13-

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| | Planned Transmission | | | 10/31/201 |

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| | Planned Transmission | | | 10/19/201 |

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| | Planned Transmission | | | 10/20/201 |

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| | Planned Transmission | | | 10/21/201 |

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| | Planned Transmission | | | 5
10/22/201 |

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| | Planned Transmission | | | 5
10/23/201 | 214-

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Planned TransmissionN/AN/A5130RTOutage and ConstraintN/AN/A520RTOutage and ConstraintN/AN/A532Planned Transmission
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Outage and Constraint
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30NoINCPlanned Transmission
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RTOutage and ConstraintN/AN/A520NoINCPlanned Transmission
RTOutage and ConstraintN/AN/A532NoINCPlanned Transmission
RTOutage and ConstraintN/AN/A533NoINCPlanned Transmission
RTOutage and ConstraintPG&EBay Area5330NoINCPlanned Transmission
RTOutage and ConstraintPG&EHumboldt10/30/20116-
7NoINCPlanned Transmission
RTOutage and ConstraintPG&EHumboldt10/6/201530NoINCPlanned Transmission
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				C	hart 2: Tab	le of E	xceptio	nal Disp	batche	s for P	eriod	01/Octob	ber/2015 - 3	31/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
126	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10/24/201 5	214	No	INC	20	4:10	23:5 9	91.32	0.00	0.00	-2653.39	0.00	0.00	0.00	0.00	0.00	0.00
127	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10/25/201 5	130- 195	No	INC	6	18:30	23:5 9	-1.67	0.00	0.00	75.86	-1.67	0.00	75.86	0.00	-41.08	0.00
128	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10/26/201 5	158- 242	No	INC	18	6:50	23:5 9	0.05	0.00	0.00	-2.00	0.00	0.00	0.00	0.00	0.00	0.00
129	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10/29/201 5	50	No	INC	16	8:30	23:5 9	-14.51	0.00	0.00	320.42	-8.87	0.00	191.54	0.00	-10.12	0.00
130	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10/30/201 5	10- 249	No	INC	18	6:35	23:5 9	7.52	0.00	0.00	-475.78	0.00	0.00	0.00	0.00	-241.70	0.00
131	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10/31/201 5	82	No	INC	18	6:45	23:5 9	71.63	0.00	0.00	-1914.70	0.00	0.00	0.00	0.00	-0.34	0.00
132	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	10/15/201 5	80	No	INC	12	7:55	18:5 9	3.39	0.00	0.00	-113.70	0.00	0.00	0.00	0.00	0.00	0.00
133	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	10/20/201 5	0	No	INC	4	20:50	23:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	RT	Planned Transmission Outage and Constraint	SCE	N/A	10/5/2015	352	No	INC	9	7:56	15:5 9	80.45	0.00	0.00	-903.96	-13.65	0.00	290.19	0.00	-543.09	0.00
135	RT	Planned Transmission Outage and Constraint	SCE	N/A	10/9/2015	240	No	INC	3	10:01	12:5 9	-103.44	-5115.98	0.00	2522.45	-103.93	0.00	2496.1 8	0.00	-1935.64	0.00
136	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/7/2015	21	No	INC	4	13:00	16:5 9	15.75	2944.03	0.00	-357.16	0.00	0.00	0.00	0.00	0.00	0.00
137	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/12/201 5	275	No	INC	3	7:31	9:44	-37.92	0.00	0.00	1465.56	24.62	-799.45	0.00	0.00	-703.72	0.00
138	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/17/201 5	63- 463	No	INC	13	6:05	18:1 4	14.71	0.00	0.00	-916.85	18.44	-900.03	0.00	0.00	-1457.71	0.00
139	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/18/201 5	20- 716	No	INC	18	2:00	19:5 9	-0.03	4195.86	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00
140	RT	Planned Transmission Outage and Constraint		San Diego-IV	10/19/201 5	63- 1001	No	INC	14	4:55	17:5 9	40.99	0.00	0.00	-685.65	58.61	-1340.90	0.00	0.00	- 10877.51	0.00
141	RT	Planned Transmission Outage and Constraint		San Diego-IV	10/20/201 5	20- 126	No	INC	15	6:00	20:5 9	289.18	49576.80	10386.49	-9768.55	0.05	-1.71	0.00	0.00	-1.71	0.00
142	RT	Planned Transmission Outage and Constraint	SDG&E		10/21/201 5	350	No	INC	8	8:20	15:2 9	40.13	1800.99	225.79	-831.08	0.00	0.00	0.00	0.00	0.00	0.00
143	RT	Planned Transmission Outage and Constraint	SDG&E		10/22/201 5	250- 600	No	INC	8	6:21	13:5 9	72.07	0.00	0.00	-2224.09	81.92	-2527.90	0.00	0.00	-2934.62	0.00

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				C	hart 2: Tab	ole of E	xception	nal Disp	oatche	s for Pe	eriod (01/Octob	per/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
144	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/24/201 5	227- 980	No	INC	10	6:02	15:5 9	22.14	0.00	0.00	-520.08	20.86	-492.29	0.00	0.00	-4314.05	0.00
145	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/25/201 5	68	No	INC	14	4:30	17:5 9	296.27	15335.24	0.00	-14413.28	0.03	-0.69	0.00	0.00	-0.74	0.00
146	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/26/201 5	20- 400	No	INC	10	4:30	14:2 9	41.89	0.00	0.00	-1654.70	31.69	-898.65	0.00	0.00	-5211.14	0.00
147	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/27/201 5	21	No	INC	3	11:35	13:5 9	1.06	2486.42	447.12	-34.82	0.01	-0.17	0.00	0.00	-0.33	0.00
148	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/28/201 5	37	No	INC	5	13:55	18:2 9	9.61	4661.29	0.00	-238.54	0.03	-0.71	0.00	0.00	-11.07	0.00
149	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/29/201 5	21	No	INC	7	11:45	18:2 9	10.50	4985.80	0.00	-102.28	0.00	-0.05	0.00	0.00	-1.59	0.00
150	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/30/201 5	20	No	INC	1	8:00	8:59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10/31/201 5	63	No	INC	6	7:30	13:2 9	2.92	8833.30	0.00	-255.06	0.00	0.00	0.00	0.00	-0.25	0.00
152	RT	Pump Management	PG&E	Fresno	10/18/201 5	-680	No	INC	1	13:00	13:5 9	-85.00	0.00	0.00	1900.54	0.00	0.00	0.00	0.00	0.00	0.00
153	RT	Software Limitation	N/A	N/A	10/5/2015	15	No	INC	1	23:00	23:5 9	14.32	2060.85	0.00	-552.65	0.00	0.00	0.00	0.00	0.00	0.00
154	RT	Software Limitation	N/A	N/A	10/6/2015	15	No	INC	5	3:10	7:59	0.42	0.00	0.00	-15.11	0.00	0.00	0.00	0.00	0.00	0.00
155	RT	Software Limitation	N/A	N/A	10/9/2015	39	No	INC	3	21:40	0:14	35.68	634.37	0.00	-1327.80	16.76	-670.87	0.00	0.00	0.00	0.00
156	RT	Software Limitation	N/A	N/A	10/10/201 5	13- 24	No	INC	3	8:40	10:5 9	-1.79	0.00	0.00	48.71	0.00	0.00	0.00	0.00	0.00	0.00
157	RT	Software Limitation	PG&E	N/A	10/12/201 5	0	No	INC	10	14:00	23:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	RT	Software Limitation	PG&E	N/A	10/19/201 5	159	No	INC	23	1:15	23:5 9	5.13	0.00	0.00	-114.81	0.00	0.00	0.00	0.00	0.00	0.00
159	RT	Software Limitation	PG&E	N/A	10/28/201 5	0	No	INC	8	16:15	23:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	RT	Software Limitation	PG&E	Sierra	10/20/201 5	40	Yes	INC	3	21:00	23:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	RT	Software Limitation	PG&E	Sierra	10/21/201 5	20	No	INC	1	0:00	0:14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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				С	hart 2: Tab	le of E	xceptior	nal Disp	atches	s for Po	eriod	01/Octob	oer/2015 - 3	1/October	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662 0
162	RT	Software Limitation	SCE	Big Creek- Ventura	10/1/2015	0	No	INC	24	1:20	0:49	-31.40	2335.38	0.00	0.00	-31.40	0.00	0.00	0.00	0.00	0.00
163	RT	Software Limitation	SCE	Big Creek- Ventura	10/2/2015	0	No	INC	1	0:15	0:49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	RT	Software Limitation	SCE	Big Creek- Ventura	10/4/2015	0	No	INC	1	15:20	16:1 9	-31.40	2060.94	0.00	0.00	-31.40	0.00	0.00	0.00	0.00	0.00
165	RT	Software Limitation	SCE	Big Creek- Ventura	10/5/2015	0	No	INC	1	22:00	22:5 9	0.01	0.00	0.00	1848.04	0.00	0.00	0.00	0.00	0.00	0.00
166	RT	Software Limitation	SCE	Big Creek- Ventura	10/10/201 5	0	No	INC	1	2:15	3:14	-23.55	2048.14	0.00	0.00	-23.55	0.00	0.00	0.00	0.00	0.00
167	RT	Software Limitation	SCE	Big Creek- Ventura	10/11/201 5	0	No	INC	8	1:00	8:14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	RT	Software Limitation	SCE	Big Creek- Ventura	10/15/201 5	0	No	INC	1	20:15	21:1 4	47.20	0.00	0.00	-1641.33	0.00	0.00	0.00	0.00	0.00	0.00
169	RT	Software Limitation	SCE	Big Creek- Ventura	10/22/201 5	0	No	INC	1	11:15	12:1 4	23.55	1847.92	0.00	-1042.81	-23.55	0.00	0.00	0.00	0.00	0.00
170	RT	Software Limitation	SCE	Big Creek- Ventura	10/23/201	0	No	INC	1	10:25	11:2 4	-27.47	2027.65	74.35	0.00	-27.47	0.00	0.00	0.00	0.00	0.00
171	RT	Software Limitation	SCE	Big Creek- Ventura	10/31/201 5	0	No	INC	1	23:15	0:14	-33.74	5536.48	0.00	853.64	0.00	0.00	0.00	0.00	0.00	0.00
172	RT	Software Limitation	SCE	LA Basin	10/8/2015	50	No	INC	10	6:00	15:4 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	RT	Software Limitation	SCE	LA Basin	10/12/201	0	No	INC	11	2:05	12:5 9	270.60	0.00	0.00	-7906.98	0.00	0.00	0.00	0.00	0.00	0.00
174	RT	Software Limitation	SCE	LA Basin	10/17/201	0	No	INC	1	0:00	0:29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	RT	Software Limitation	SCE	LA Basin	10/20/201	0	No	INC	10	11:00	23:5	-18.67	-49652.74	0.00	622.32	0.00	0.00	0.00	0.00	0.00	0.00
			SCE		10/24/201 5			INC	13		9 23:5								0.00		
176	RT	Software Limitation		LA Basin	10/25/201	10	No		23	1:55	9 11:5	25.87	5181.45	0.00	-644.28	0.00	0.00	0.00		0.00	0.00
177	RT	Software Limitation	SCE	LA Basin	5 10/29/201	10	No	INC	12	0:00	9	130.30	5291.75	0.00	-7895.77	0.00	0.00	0.00	0.00	0.00	0.00
178	RT	Software Limitation	SCE	LA Basin	5 10/30/201	0	No	INC	1	6:20	13:5	-30.16	4512.08	0.00	0.00	-30.16	0.00	0.00	0.00	0.00	0.00
179	RT	Software Limitation	SCE	LA Basin	5	130	No	INC	1	13:15	9	-126.28	0.00	0.00	16480.19	0.00	0.00	0.00	0.00	0.00	0.00

				C	hart 2: Tab	le of E	xception	nal Disp	batches	s for Po	eriod	01/Octob	per/2015 - 3	1/October/	/2015						
Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commi tment	INC_D EC	Hour s	Begin Time	End Time	Total MWH	Min Load Cost	Start Up Cost	CC6470	ED MWH (INC/DEC)	CC6470 INC	CC6470 DEC	CC6482	CC6488	CC662
180	RT	Software Limitation	SDG&E	San Diego-IV	10/10/201 5	0	No	INC	1	21:35	22:1 4	18.00	1763.90	0.00	-672.03	0.00	0.00	0.00	0.00	0.00	0.00
181	RT	Software Limitation	SDG&E	San Diego-IV	10/19/201 5	270	No	INC	1	15:20	16:1 4	-64.89	1946.58	0.00	1660.37	-18.75	0.00	477.51	0.00	-126.16	0.00
182	RT	Start-Up Instructions	N/A	N/A	10/17/201 5	30- 100	No	INC	4	18:00	21:5 9	0.41	0.00	0.00	149.83	0.00	0.00	0.00	0.00	0.00	0.00
183	RT	Start-Up Instructions	PG&E	Humboldt	10/14/201 5	33	No	INC	1	23:50	23:5 9	2.38	0.00	0.00	-72.51	0.00	0.00	0.00	0.00	0.00	0.00
184	RT	Start-Up Instructions	PG&E	Humboldt	10/17/201 5	48	No	INC	3	19:30	21:5 9	-6.57	0.00	0.00	194.68	-1.59	0.00	41.26	0.00	0.00	0.00
185	RT	Unit Testing	PG&E	Bay Area	10/1/2015	98	No	INC	5	9:05	13:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	RT	Unit Testing	PG&E	Bay Area	10/21/201 5	74- 290	No	INC	14	5:00	18:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	RT	Unit Testing	PG&E	Bay Area	10/29/201 5	135- 312	No	INC	4	16:00	19:5 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	RT	Voltage Support	PG&E	Fresno	10/18/201 5	-340	No	INC	2	7:45	8:59	-170.00	0.00	0.00	5838.95	0.00	0.00	0.00	0.00	0.00	0.00
189	RT	Voltage Support	PG&E	Fresno	10/20/201 5	-676 338	No	INC	4	4:15	7:59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	RT	Voltage Support	PG&E	Fresno	10/24/201 5	-670 335	No	INC	22	2:30	23:5 9	-83.75	0.00	0.00	2105.65	0.00	0.00	0.00	0.00	0.00	0.00
191	RT	Voltage Support	PG&E	Fresno	10/25/201 5	-670 335	No	INC	13	3:45	16:2 9	-83.75	0.00	0.00	3422.92	0.00	0.00	0.00	0.00	0.00	0.00
192	RT	Voltage Support	PG&E	Fresno	10/26/201 5	-335	No	INC	6	1:00	6:59	-61.42	0.00	0.00	1365.33	0.00	0.00	0.00	0.00	0.00	0.00
193	RT	Voltage Support	PG&E	Fresno	10/31/201 5	-332	No	INC	4	3:15	6:59	-166.00	0.00	0.00	4297.44	0.00	0.00	0.00	0.00	0.00	0.00
194	RT	Voltage Support	PG&E	Sierra	10/19/201 5	45	Yes	INC	11	6:30	17:2 9	-1.03	11692.60	734.94	25.38	0.00	0.00	0.00	0.00	-5244.42	0.00
195	RT	Voltage Support	PG&E	Stockton	10/18/201 5	89	No	INC	16	6:00	21:1 4	2.57	37713.78	9089.54	-66.22	0.00	0.00	0.00	0.00	-2.07	0.00

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 CAISO 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 CAISO issued additional instructions to resources B and C for the same reason in Table 2. Exceptional dispatches prior to the day-ahead market are commitments to minimum load. Here 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 different from the bid-in minimum load and start up costs⁷. Only those quantities which relate to pre-day-ahead unit commitments are shown in this table.

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	В	SCE	LA BASIN	08:00	20:00	30	7630	390	\$6000	\$500	\$4000
01-Jul-09	DA	С	SCE	LA BASIN	09:00	23:00	20	7630	300	\$400	\$1000	\$1000

Table 2: Instructions Prior to Day-Ahead Market

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. 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 there might be hours between the begin time and the end time where there might not be exceptional dispatch instructions for the 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 MWh quantity for each resource, which adds up to 990 MWh. Similarly, all cost information is sum of individual resource costs. 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 CAISO 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. Here, it is the CC6620 for all three resources which adds up to \$5000. This column shows the impact of exceptional dispatch on bid cost re

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

Example 2: Incremental Exceptional Dispatch Instructions in RTM

In this fictitious example the CAISO 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 had no day-ahead award in those hours. The CAISO issued another exceptional dispatch instruction to resource B, to be dispatched at 40 MW from hours 7:00 through

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

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 this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C are shown in Table 4. This table also shows volume (MWh) and various real-time charge codes associated with the exceptional dispatch instructions. The total MWh column for each resource shows 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, so the charge code CC6470 is calculated at (180 MWh *\$10/MWh) and is equal to \$1,800. Since this resource is not dispatched above its Pmin, it has a zero volume (MWh) of exceptional dispatch. 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 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.

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	А	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	В	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	С	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	С	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	7110	50	0	0	300	20	300	0	0	200

Table 4: Incremental Exceptional Dispatch Instructions in RTM

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. 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 there might be hours between the begin time and end time where there were no exceptional dispatch instructions for the reason. Both volume and cost information columns are 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.

Table 5: FERC Summary of ED Instructions in RTM

Number	Market Type	Reason	Location	Local Reliability Area (LRA)	Trade Date	мw	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

It is possible that the CAISO 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 CAISO 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 CAISO 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 CAISO 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	В	PG&E	Fresno	7:00	9:00	40	60	No	DEC	20	7430	(60)	\$ -	\$ -	\$ 600	-60	\$-	\$ 600	\$-	\$2,400
1- Jul- 09	RT	С	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 in Table 7. This summary classifies the data by reason, resource location, local reliability area, and trade date. 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. 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.

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	Sta (art 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 CAISO to perform price impact analysis on two distinct pricing nodes for the entire reporting period. The order also mentioned that the CAISO must pick two pricing nodes for the entire reporting period that are most affected by the exceptional dispatch instructions, and the two pricing nodes must belong to two load aggregation points (LAPs).

Based on this requirement the CAISO implemented a methodology to perform price impact analysis. First, the CAISO identified a heavily affected 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 CAISO 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 information to perform price impact analysis.

An exceptional dispatch instruction can be classified as a start up instruction, an instruction to be dispatched at or above the constrained level, an instruction to be dispatched at a fixed constrained level, or a shut down instruction. 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 may 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 the resource was exceptionally dispatched to its Pmax and forced to generate at that level, the resource was 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 in the PGAE area. This table shows all the five minute intervals in which the resource at PNode A was issued an exceptional dispatch instruction. Out of the 8,064 five-minute intervals in October, this resource was issued exceptional dispatch instructions in 28 five-minute intervals. This resource was eligible to set the LMP in 28 intervals. Out of the 28 intervals, resource calculated LMP was larger than the market LMP in 28 intervals. In the 28 intervals, the average increase in five minute LMP was \$16.74/MWh. This implies that if the CAISO could 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 \$16.74/MWh

Table 9 shows the price impact analysis information for node B, which is in the SCE area. This table shows all the five minute intervals in which the resource at PNode B was issued an exceptional dispatch instruction. Out of the 8,064 five-minute intervals in July, this resource was issued exceptional dispatch instructions in 60 five-minute intervals. This resource was eligible to set the LMP in 60 intervals. Out of the 60 intervals, resource calculated LMP was larger than the market LMP in 46 intervals. In the 46 intervals, the average increase in five minute LMP was \$8.12/MWh. Out of the 24 intervals, resource calculated LMP was less than the market LMP in 14 intervals, the average decrease in five minute LMP was \$1.82/MWh. This implies that if the CAISO could 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 \$5.80/MWh

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	10/15/2015	18	1	35.20	Yes	55	19.80
2	10/15/2015	18	2	35.42	Yes	55	19.58
3	10/15/2015	18	3	35.50	Yes	55	19.50
4	10/15/2015	18	4	35.73	Yes	55	19.27
5	10/15/2015	18	5	35.79	Yes	55	19.21
6	10/15/2015	18	6	35.07	Yes	55	19.93
7	10/15/2015	18	7	34.32	Yes	55	20.68
8	10/15/2015	18	8	33.33	Yes	55	21.67
9	10/15/2015	18	9	32.35	Yes	55	22.65
10	10/15/2015	18	10	31.92	Yes	55	23.08
11	10/15/2015	18	11	31.65	Yes	55	23.35
12	10/15/2015	18	12	29.41	Yes	55	25.59
13	10/15/2015	20	1	40.71	Yes	55	14.29
14	10/15/2015	20	2	41.02	Yes	55	13.98
15	10/15/2015	20	3	41.45	Yes	55	13.55
16	10/15/2015	20	12	36.54	Yes	55	18.46
17	10/15/2015	21	1	40.66	Yes	55	14.34
18	10/15/2015	21	2	54.33	Yes	55	0.67
19	10/15/2015	21	3	54.50	Yes	55	0.50
20	10/15/2015	21	4	43.69	Yes	55	11.31
21	10/15/2015	21	5	43.67	Yes	55	11.33
22	10/15/2015	21	6	42.67	Yes	55	12.33
23	10/15/2015	21	7	41.77	Yes	55	13.23
24	10/15/2015	21	8	40.14	Yes	55	14.86
25	10/15/2015	21	9	39.31	Yes	55	15.69
26	10/15/2015	21	10	35.11	Yes	55	19.89
27	10/15/2015	21	11	34.63	Yes	55	20.37
28	10/15/2015	21	12	35.49	Yes	55	19.51

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

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
1	10/7/2015	8	1	30.92	Yes	39.26	8.34
2	10/7/2015	8	2	31.11	Yes	39.26	8.15
3	10/7/2015	8	3	30.92	Yes	39.26	8.34
4	10/7/2015	8	4	30.40	Yes	39.26	8.86
5	10/7/2015	8	5	31.61	Yes	39.26	7.65
6	10/7/2015	8	6	31.61	Yes	39.26	7.65
7	10/7/2015	8	7	34.96	Yes	39.26	4.30
8	10/7/2015	8	8	31.07	Yes	39.26	8.19
9	10/7/2015	8	9	25.78	Yes	39.26	13.48
10	10/7/2015	8	10	24.56	Yes	39.26	14.70
11	10/7/2015	8	11	24.56	Yes	39.26	14.70
12	10/7/2015	8	12	24.12	Yes	39.26	15.14
13	10/7/2015	1	1	36.79	Yes	39.26	2.47
14	10/7/2015	1	2	36.79	Yes	39.26	2.47
15	10/7/2015	1	3	37.18	Yes	39.26	2.08
16	10/7/2015	1	4	40.41	Yes	39.26	-1.15
17	10/7/2015	1	5	40.43	Yes	39.26	-1.17
18	10/7/2015	1	6	39.57	Yes	39.26	-0.31
19	10/7/2015	1	7	39.74	Yes	39.26	-0.48
20	10/7/2015	1	8	37.02	Yes	39.26	2.24
21	10/7/2015	1	9	36.74	Yes	39.26	2.52
22	10/7/2015	1	10	36.97	Yes	39.26	2.29
23	10/7/2015	1	11	35.84	Yes	39.26	3.42
24	10/7/2015	1	12	34.68	Yes	39.26	4.58
25	10/8/2015	14	1	31.84	Yes	41.61	9.77
26	10/8/2015	14	2	31.84	Yes	41.61	9.77
27	10/8/2015	14	3	31.84	Yes	41.61	9.77
28	10/8/2015	14	4	31.84	Yes	41.61	9.77
29	10/8/2015	14	5	31.84	Yes	41.61	9.77
30	10/8/2015	14	6	31.84	Yes	41.61	9.77
31	10/8/2015	14	7	31.43	Yes	41.61	10.18
32	10/8/2015	14	8	34.45	Yes	41.61	7.16
33	10/8/2015	14	9	42.96	Yes	41.61	-1.35
34	10/8/2015	14	10	39.39	Yes	41.61	2.22
35	10/8/2015	14	11	45.10	Yes	41.61	-3.49
36	10/8/2015	14	12	44.86	Yes	41.61	-3.25

Number	Trade Date	Trade Hour	Interval	Market LMP	Eligible Flag	Calculated LMP	Change in LMP
37	10/9/2015	8	1	26.15	Yes	39.26	13.11
38	10/9/2015	8	2	26.63	Yes	39.26	12.63
39	10/9/2015	8	3	26.94	Yes	39.26	12.32
40	10/9/2015	8	4	29.23	Yes	39.26	10.03
41	10/9/2015	8	5	29.23	Yes	39.26	10.03
42	10/9/2015	8	6	27.72	Yes	39.26	11.54
43	10/9/2015	8	7	26.42	Yes	39.26	12.84
44	10/9/2015	8	8	26.38	Yes	39.26	12.88
45	10/9/2015	8	9	26.83	Yes	39.26	12.43
46	10/9/2015	8	10	25.65	Yes	39.26	13.61
47	10/9/2015	8	11	25.65	Yes	39.26	13.61
48	10/9/2015	8	12	25.65	Yes	39.26	13.61
49	10/14/2015	14	1	36.73	Yes	39.64	2.91
50	10/14/2015	14	2	38.27	Yes	39.64	1.37
51	10/14/2015	14	3	39.25	Yes	39.64	0.39
52	10/14/2015	14	4	41.39	Yes	39.64	-1.75
53	10/14/2015	14	5	44.24	Yes	39.64	-4.60
54	10/14/2015	14	6	42.53	Yes	39.64	-2.89
55	10/14/2015	14	7	40.00	Yes	39.64	-0.36
56	10/14/2015	14	8	40.58	Yes	39.64	-0.94
57	10/14/2015	14	9	42.50	Yes	39.64	-2.86
58	10/14/2015	14	10	39.18	Yes	39.64	0.46
59	10/14/2015	14	11	39.64	Yes	39.64	0.00
60	10/14/2015	14	12	40.58	Yes	39.64	-0.94

Appendix C: Exceptional Dispatch Bid Mitigation Analysis

ISO did not have any cost savings for the exceptional dispatch bid mitigation for October 2015.

CERTIFICATE OF SERVICE

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

Dated at Folsom, California this 1st day of February, 2016.

<u>Isl Anna Pascuzzo</u> Anna Pascuzzo