

August 15, 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-\_\_\_\_  
June 2014 Exceptional Dispatch Report (Chart 1 data)**

Dear Secretary Bose:

Pursuant to the Commission's September 2, 2009 and May 4, 2010 orders in the above referenced dockets, the California Independent System Operator Corporation submits the attached report. The attached report provides details concerning Exceptional Dispatches the Commission directed to be included in "Chart 1" as set forth in Appendix A of the September 2 order, as modified by the ISO's September 14 motion for clarification, which the Commission granted in its May 4 order. The attached report provides Chart 1 data for the month of June 2014.

Respectfully submitted,

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# **Exceptional Dispatch Report**

## **Table 1: June 2014**

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## Introduction

This report is filed pursuant to FERC's September 2, 2009 and June 4, 2010 orders in ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15<sup>th</sup> of each month and one issued on the 30<sup>th</sup> of each month. This report provides data on the frequency and reasons for Exceptional Dispatches issued in June 2014. On December 19, 2013, the ISO implemented a new exceptional dispatch tool. This tool improves the ISO's ability to automate the production of the report and provides more granularity and consistency concerning the reasons for the exceptional dispatch.

## The Nature of Exceptional Dispatch

The ISO can issue exceptional dispatch instructions for a resource as a pre-day-ahead unit commitment, which may also include an indicative exceptional dispatch energy schedule, a post-day-ahead unit commitment, or a real-time exceptional dispatch<sup>1</sup>. A pre-day-ahead commitment is an exceptional dispatch instruction that commits a resource at or above its physical minimum operating level in the day-ahead market. A post-day-ahead market commitment is an exceptional dispatch instruction that commits a resource at or above its physical minimum operating level in the real-time market. A real-time exceptional dispatch instruction is a dispatch of a resource at or above its physical minimum operating point. For the purposes of this report, a real-time exceptional dispatch above the resource day-ahead award is considered an incremental exceptional dispatch instruction and an exceptional dispatch below the day-ahead award is considered a decremental dispatch instruction.

The ISO issues exceptional dispatch instructions primarily for constraints which are not enforced or not completely enforced in the market software. Whenever the ISO issues an exceptional dispatch instruction, such instructions are logged into the scheduling and logging system ("SLIC"), including the associated reason. These reasons are associated with the constraints that are not currently incorporated into the market application. In addition to model constraints, the ISO also issues exceptional dispatch instructions for software failures.

Many of the exceptional dispatches listed below in Table 1, were to satisfy either a local area or system reliability requirements, and are classified into local generation requirements, transmission management requirements, non-modeled transmission outages or other requirements, such as ramp requirements and intertie emergency assistance. All of the transmission procedures are available on the CAISO website<sup>2</sup>.

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<sup>1</sup> The ISO can issue exceptional dispatch instructions subject to authority of the ISO Tariff Section 34.9 and in accordance with ISO Operating Procedure 2330 (formerly M-402).

<sup>2</sup> A list of all of the ISO's publicly available Operating Procedures are available at the following link: <http://www.caiso.com/thegrid/operations/opsdoc/index.html>

The following reason for exceptional dispatch instructions in June 2014 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 June, which are self explanatory.

As mentioned earlier, the data shown in Table 1 is based on a template specified in the September 2009 order<sup>3</sup>. Each entry in Attachment A 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; and (6) End Time.

The MW column shows the range of exceptional dispatch instructions 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, a decremental dispatch, or only a unit commitment. If the exceptional dispatch was only a unit commitment, the column shows NA for the classification. The Begin Time column shows the start of exceptional dispatch for the classification and the End Time column shows the end of exceptional dispatch for the classification. The column Hours is the difference between end time and begin time rounded up to the next hour. The data shown is further explained by way of example in Attachment A.

Table 1 indicates that there were a total of 153 exceptional dispatches in June 2014, as compared to 174 exceptional dispatches in May 2014. Exceptional dispatches issued for the following reasons accounted for approximately 72

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<sup>3</sup> The data in Table 1 is principally SLIC information supplemented with data from the Market Quality System (MQS). It is the most accurate currently available and it is worth noting that this data has been through the T+38B initial statement process wherein many unresolved issues are fixed. The CAISO believes that this data will correlate well with the settlements data that will be available when the CAISO files the Table 2 report for the reporting period.

percent of the total exceptional dispatches during the reporting period: software limitation, Operating Procedure Number and Constraint, planned transmission outage and Unit Testing.

**Table 1: Exceptional Dispatches in June 2014**

**California Independent System Operator Corporation  
Exceptional Dispatch Report  
August 15, 2014**

**Chart 1: Table of Exceptional Dispatches for Period 01/June/2014 – 30/June/2014**

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	COI Mitigation	PG&E	Fresno	3-Jun-14	400	No	INC	1	22:15	22:59
2	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	9-Jun-14	30- 64	No	INC	8	10:21	17:59
3	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	20-Jun-14	83	No	INC	1	16:15	16:44
4	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	21-Jun-14	50	No	INC	5	18:25	23:09
5	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	21-Jun-14	50- 133	No	INC	5	18:45	23:29
6	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	22-Jun-14	20	No	INC	3	2:30	5:14
7	RT	Incomplete or Inaccurate Transmission	PG&E	Humboldt	30-Jun-14	0	No	INC	3	17:00	19:59
8	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	9-Jun-14	94	No	INC	9	11:39	19:59
9	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	16-Jun-14	142	No	INC	16	8:25	23:59
10	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	21-Jun-14	20- 40	No	INC	10	14:15	23:59
11	RT	Incomplete or Inaccurate Transmission	SCE	Big Creek-Ventura	10-Jun-14	50	No	INC	14	10:00	23:59
12	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	6-Jun-14	21	No	INC	3	9:40	12:39
13	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	20-Jun-14	14	No	INC	5	10:50	14:59
14	RT	Load Forecast Uncertainty	PG&E	Bay Area	5-Jun-14	25	No	INC	6	12:15	17:29
15	RT	Load Forecast Uncertainty	PG&E	Bay Area	19-Jun-14	193	No	INC	2	15:55	16:59
16	RT	Load Forecast Uncertainty	PG&E	N/A	30-Jun-14	141	No	INC	9	6:00	14:21
17	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	9-Jun-14	20- 70	Yes	INC	16	8:00	23:59
18	RT	Load Forecast Uncertainty	SCE	LA Basin	5-Jun-14	97- 146	No	INC	9	12:00	20:59
19	RT	Load Forecast Uncertainty	SCE	LA Basin	9-Jun-14	10	Yes	INC	4	20:00	23:59
20	RT	Load Forecast Uncertainty	SCE	LA Basin	30-Jun-14	25- 390	Yes	INC	19	5:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
21	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	9-Jun-14	20- 40	Yes	INC	18	6:00	23:59
22	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	30-Jun-14	20- 40	Yes	INC	18	6:00	23:59
23	RT	Operating Procedure Number and Constraint	PG&E	Fresno	7-Jun-14	40- 334	No	INC	14	10:55	23:59
24	RT	Operating Procedure Number and Constraint	PG&E	Fresno	8-Jun-14	84- 272	No	INC	19	3:30	21:59
25	RT	Operating Procedure Number and Constraint	PG&E	Fresno	10-Jun-14	50	No	INC	1	8:15	8:29
26	RT	Operating Procedure Number and Constraint	PG&E	Fresno	15-Jun-14	20	No	INC	2	8:31	10:29
27	RT	Operating Procedure Number and Constraint	PG&E	Fresno	23-Jun-14	40- 200	No	INC	10	14:58	23:59
28	RT	Operating Procedure Number and Constraint	PG&E	Fresno	24-Jun-14	35- 118	No	INC	24	0:00	23:59
29	RT	Operating Procedure Number and Constraint	PG&E	Fresno	25-Jun-14	6- 231	No	INC	13	11:32	0:19
30	RT	Operating Procedure Number and Constraint	PG&E	Fresno	26-Jun-14	6- 92	No	INC	22	0:05	21:59
31	RT	Operating Procedure Number and Constraint	PG&E	Fresno	27-Jun-14	40- 50	No	INC	10	14:00	23:59
32	RT	Operating Procedure Number and Constraint	PG&E	Fresno	28-Jun-14	20- 198	No	INC	12	12:30	23:59
33	RT	Operating Procedure Number and Constraint	PG&E	Humboldt	1-Jun-14	15	No	INC	2	22:05	23:59
34	RT	Operating Procedure Number and Constraint	PG&E	Humboldt	30-Jun-14	30- 75	No	INC	11	14:00	0:59
35	RT	Operating Procedure Number and Constraint	PG&E	N/A	6-Jun-14	10- 120	No	INC	3	17:35	19:44
36	RT	Operating Procedure Number and Constraint	PG&E	N/A	28-Jun-14	301	No	INC	6	14:55	20:29
37	RT	Operating Procedure Number and Constraint	PG&E	NCNB	26-Jun-14	135- 150	No	INC	5	3:47	7:59
38	RT	Operating Procedure Number and Constraint	PG&E	NCNB	27-Jun-14	75- 78	No	INC	17	3:00	19:59
39	RT	Operating Procedure Number and Constraint	PG&E	Sierra	6-Jun-14	20- 222	No	INC	5	15:40	20:29
40	RT	Operating Procedure Number and Constraint	PG&E	Sierra	7-Jun-14	210	No	INC	7	16:07	22:59
41	RT	Operating Procedure Number and Constraint	PG&E	Sierra	8-Jun-14	544	No	INC	7	15:15	21:59
42	RT	Operating Procedure Number and Constraint	SCE	Big Creek-Ventura	10-Jun-14	538	No	INC	4	17:25	21:14
43	RT	Operating Procedure Number and Constraint	SDG&E	San Diego-IV	13-Jun-14	243	No	INC	2	13:34	14:59
44	RT	Other Reliability Requirement	Intertie	N/A	6-Jun-14	50	No	INC	1	17:00	17:59
45	RT	Other Reliability Requirement	PG&E	Stockton	8-Jun-14	50	No	INC	1	16:26	16:59
46	RT	Other Reliability Requirement	SCE	LA Basin	25-Jun-14	177- 387	No	INC	8	14:45	21:59
47	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	2-Jun-14	92	No	INC	5	16:05	20:59
48	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	3-Jun-14	46	No	INC	5	2:35	7:29
49	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	4-Jun-14	20- 50	No	INC	16	8:55	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
50	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	5-Jun-14	50- 246	No	INC	20	1:50	20:59
51	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	20-Jun-14	80	No	INC	2	19:05	20:59
52	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	20-Jun-14	12- 770	No	INC	11	11:20	21:59
53	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	21-Jun-14	6- 56	No	INC	10	14:00	23:59
54	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	22-Jun-14	50- 96	No	INC	7	16:00	22:59
55	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	26-Jun-14	47	No	INC	2	22:55	23:59
56	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	30-Jun-14	20- 520	No	INC	11	11:05	21:59
57	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	30-Jun-14	30	No	INC	13	6:40	18:59
58	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	30-Jun-14	15- 60	No	INC	13	6:06	18:59
59	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5-Jun-14	150- 775	No	INC	14	7:59	20:59
60	RT	Planned Transmission Outage and Constraint	PG&E	N/A	6-Jun-14	140- 282	Yes	INC	7	5:00	11:59
61	RT	Planned Transmission Outage and Constraint	PG&E	N/A	9-Jun-14	280- 600	Yes	INC	12	12:13	23:59
62	RT	Planned Transmission Outage and Constraint	PG&E	N/A	10-Jun-14	141- 284	No	INC	17	7:15	23:59
63	RT	Planned Transmission Outage and Constraint	PG&E	N/A	11-Jun-14	141	No	INC	18	6:50	23:59
64	RT	Planned Transmission Outage and Constraint	PG&E	N/A	12-Jun-14	250	No	INC	12	12:20	23:59
65	RT	Planned Transmission Outage and Constraint	PG&E	N/A	13-Jun-14	140- 206	No	INC	16	1:00	16:59
66	RT	Planned Transmission Outage and Constraint	PG&E	N/A	18-Jun-14	140- 300	No	INC	14	1:32	15:29
67	RT	Planned Transmission Outage and Constraint	PG&E	N/A	19-Jun-14	128- 356	No	INC	16	1:00	16:09
68	RT	Planned Transmission Outage and Constraint	PG&E	N/A	20-Jun-14	140- 450	No	INC	16	6:00	21:59
69	RT	Planned Transmission Outage and Constraint	PG&E	N/A	21-Jun-14	140	No	INC	19	5:00	23:59
70	RT	Planned Transmission Outage and Constraint	PG&E	N/A	30-Jun-14	0	No	INC	10	14:22	23:59
71	RT	Planned Transmission Outage and Constraint	PG&E	NCNB	1-Jun-14	60- 240	No	INC	23	1:50	23:59
72	RT	Planned Transmission Outage and Constraint	PG&E	NCNB	2-Jun-14	100- 185	No	INC	6	18:20	23:59
73	RT	Planned Transmission Outage and Constraint	PG&E	NCNB	3-Jun-14	50- 170	No	INC	23	1:30	23:59
74	RT	Planned Transmission Outage and Constraint	PG&E	NCNB	6-Jun-14	69- 204	No	INC	13	9:15	21:59
75	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	2-Jun-14	60	No	INC	1	20:35	21:14
76	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	4-Jun-14	20- 35	No	INC	3	18:45	21:29
77	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5-Jun-14	20- 40	No	INC	6	17:15	22:59
78	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	8-Jun-14	191	No	INC	3	19:40	21:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
79	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	9-Jun-14	14	No	INC	3	16:23	18:59
80	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	9-Jun-14	300- 550	No	INC	12	10:45	21:59
81	RT	Planned Transmission Outage and Constraint	SCE	LA Basin	2-Jun-14	20	No	INC	18	6:00	23:59
82	RT	Planned Transmission Outage and Constraint	SCE	LA Basin	26-Jun-14	130	No	INC	13	7:25	19:59
83	RT	Planned Transmission Outage and Constraint	SCE	N/A	21-Jun-14	40	Yes	INC	1	23:00	23:59
84	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	9-Jun-14	40- 800	No	INC	16	8:50	23:59
85	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	10-Jun-14	400	No	INC	9	14:38	22:59
86	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	11-Jun-14	20- 44	No	INC	11	0:00	10:59
87	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	12-Jun-14	40- 809	No	INC	14	6:00	19:59
88	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	13-Jun-14	20- 200	No	INC	14	6:00	19:59
89	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	14-Jun-14	20- 400	No	INC	14	10:45	23:59
90	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	17-Jun-14	58	No	INC	2	10:38	12:34
91	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	27-Jun-14	16	No	INC	9	9:35	17:59
92	RT	Pump Management	PG&E	Fresno	14-Jun-14	-311	No	INC	2	6:55	8:14
93	RT	Shutdown	PG&E	Fresno	9-Jun-14	0	No	INC	3	3:45	6:09
94	RT	Shutdown	SCE	LA Basin	9-Jun-14	0	No	INC	1	3:45	4:44
95	RT	Shutdown	SDG&E	San Diego-IV	20-Jun-14	0	No	INC	1	0:00	0:59
96	RT	Software Limitation	PG&E	Bay Area	21-Jun-14	0	No	INC	5	1:15	5:54
97	RT	Software Limitation	PG&E	Fresno	2-Jun-14	0	No	INC	3	3:05	6:04
98	RT	Software Limitation	PG&E	Fresno	22-Jun-14	6- 92	No	INC	7	16:15	22:59
99	RT	Software Limitation	PG&E	Humboldt	1-Jun-14	0	No	INC	1	22:00	22:59
100	RT	Software Limitation	PG&E	Humboldt	8-Jun-14	15	No	INC	2	22:15	23:59
101	RT	Software Limitation	PG&E	Humboldt	11-Jun-14	15	No	INC	17	7:30	23:59
102	RT	Software Limitation	PG&E	Humboldt	12-Jun-14	15	No	INC	1	23:40	23:59
103	RT	Software Limitation	PG&E	Humboldt	13-Jun-14	15	No	INC	1	0:00	0:29
104	RT	Software Limitation	PG&E	Humboldt	17-Jun-14	15	No	INC	21	3:00	23:59
105	RT	Software Limitation	PG&E	Humboldt	18-Jun-14	15- 90	No	INC	20	4:00	23:59
106	RT	Software Limitation	PG&E	Humboldt	19-Jun-14	30	No	INC	19	5:25	23:59
107	RT	Software Limitation	PG&E	Humboldt	20-Jun-14	15- 48	No	INC	5	19:40	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
108	RT	Software Limitation	PG&E	Humboldt	21-Jun-14	15- 16	No	INC	23	1:00	23:59
109	RT	Software Limitation	PG&E	Humboldt	22-Jun-14	15	No	INC	1	23:20	23:59
110	RT	Software Limitation	PG&E	Humboldt	28-Jun-14	15	No	INC	21	3:40	23:59
111	RT	Software Limitation	PG&E	Humboldt	30-Jun-14	15	No	INC	14	4:25	17:29
112	RT	Software Limitation	PG&E	Humboldt	30-Jun-14	15	No	INC	4	20:00	23:59
113	RT	Software Limitation	SCE	LA Basin	1-Jun-14	0	No	INC	8	10:30	18:29
114	RT	Software Limitation	SCE	LA Basin	9-Jun-14	0	No	INC	2	6:40	7:59
115	RT	Software Limitation	SCE	LA Basin	9-Jun-14	20	No	INC	1	23:00	23:59
116	RT	Software Limitation	SCE	N/A	4-Jun-14	0	No	INC	6	16:45	22:44
117	RT	Software Limitation	SDG&E	San Diego-IV	21-Jun-14	281	No	INC	23	1:10	23:29
118	RT	Startup	SDG&E	San Diego-IV	9-Jun-14	21	No	INC	3	11:15	13:19
119	RT	Startup	SDG&E	San Diego-IV	10-Jun-14	37	No	INC	13	8:40	20:59
120	RT	Start-Up Instructions	PG&E	Bay Area	24-Jun-14	0	No	INC	5	1:00	5:54
121	RT	Start-Up Instructions	PG&E	Fresno	9-Jun-14	0	No	INC	1	3:45	4:39
122	RT	Start-Up Instructions	PG&E	Fresno	13-Jun-14	0	No	INC	1	0:00	0:59
123	RT	Start-Up Instructions	PG&E	Fresno	23-Jun-14	0	No	INC	3	5:30	8:14
124	RT	Start-Up Instructions	SCE	Big Creek-Ventura	9-Jun-14	0	No	INC	1	5:10	5:39
125	RT	Start-Up Instructions	SCE	LA Basin	8-Jun-14	20- 30	Yes	INC	23	1:00	23:59
126	RT	Start-Up Instructions	SCE	LA Basin	9-Jun-14	0	No	INC	2	6:40	7:59
127	RT	Start-Up Instructions	SCE	LA Basin	21-Jun-14	0	No	INC	1	0:05	0:49
128	RT	Start-Up Instructions	SCE	LA Basin	29-Jun-14	0	No	INC	3	18:19	20:59
129	RT	Start-Up Instructions	SDG&E	San Diego-IV	20-Jun-14	0	No	INC	2	14:55	16:19
130	RT	Start-Up Instructions	SDG&E	San Diego-IV	21-Jun-14	0	No	INC	2	17:20	18:44
131	RT	Unit Testing	PG&E	Bay Area	11-Jun-14	48	No	INC	6	10:20	15:59
132	RT	Unit Testing	PG&E	Bay Area	25-Jun-14	270- 500	No	INC	17	7:55	23:59
133	RT	Unit Testing	PG&E	Bay Area	26-Jun-14	200-1000	No	INC	24	0:00	23:59
134	RT	Unit Testing	PG&E	Bay Area	27-Jun-14	200- 563	No	INC	24	0:00	23:59
135	RT	Unit Testing	PG&E	Fresno	4-Jun-14	334	No	INC	1	9:10	9:44
136	RT	Unit Testing	PG&E	Fresno	5-Jun-14	149	No	INC	1	9:10	9:19

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
137	RT	Unit Testing	PG&E	Fresno	19-Jun-14	45- 90	No	INC	11	8:20	18:39
138	RT	Unit Testing	PG&E	Fresno	24-Jun-14	792	No	INC	1	12:05	12:59
139	RT	Unit Testing	PG&E	Fresno	25-Jun-14	396- 792	No	INC	1	12:30	13:29
140	RT	Unit Testing	PG&E	Fresno	26-Jun-14	396	No	INC	2	12:20	13:24
141	RT	Unit Testing	PG&E	N/A	2-Jun-14	136- 250	No	INC	11	8:00	18:59
142	RT	Unit Testing	PG&E	N/A	14-Jun-14	200- 550	No	INC	9	8:15	16:44
143	RT	Unit Testing	PG&E	N/A	17-Jun-14	64- 96	No	INC	1	9:30	10:29
144	RT	Unit Testing	PG&E	N/A	18-Jun-14	243- 262	No	INC	2	9:25	10:29
145	RT	Unit Testing	PG&E	N/A	25-Jun-14	450	No	INC	6	10:35	15:59
146	RT	Unit Testing	PG&E	N/A	26-Jun-14	450	No	INC	6	10:25	15:59
147	RT	Unit Testing	PG&E	Sierra	6-Jun-14	140- 420	No	INC	2	9:05	10:24
148	RT	Unit Testing	PG&E	Sierra	10-Jun-14	60- 221	No	INC	2	9:40	10:59
149	RT	Unit Testing	PG&E	Sierra	19-Jun-14	22- 92	No	INC	1	9:05	10:04
150	RT	Unit Testing	PG&E	Stockton	12-Jun-14	240	No	INC	2	13:00	14:04
151	RT	Unit Testing	PG&E	Stockton	18-Jun-14	91	No	INC	1	9:25	9:34
152	RT	Unit Testing	SCE	LA Basin	3-Jun-14	41- 42	No	INC	4	12:15	15:59
153	RT	Unplanned Outage	PG&E	Bay Area	8-Jun-14	180- 540	No	INC	6	16:10	21:59

## Appendix A: Explanation by Example

All examples listed below are based on fictitious data.

### 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 physical minimum (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: Instructions Prior to Day-Ahead Market**

Date	Market	Resource	Location	Local Reliability Area (LRA)	Begin Time	End Time	Dispatch Level (MW)	Reason
01-Jul-09	DA	A	SCE	LA BASIN	05:00	10:00	50	7630
01-Jul-09	DA	B	SCE	LA BASIN	08:00	20:00	30	7630
01-Jul-09	DA	C	SCE	LA BASIN	09:00	23:00	20	7630

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.

**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
1	DA	7630	SCE	LA Basin	1-Jul-09	20-100	Yes	N/A	19	05:00	23:00

**Example 2: Incremental Exceptional Dispatch Instructions in RTM**

In this fictitious example, the ISO issued an exceptional dispatch instruction to resource A to be committed at its Pmin of 30 MW from hours ending 7 through 11 after completion of the day-ahead market for the transmission procedure 7110. This resource did not have a day-ahead award in those hours. The ISO issued another exceptional dispatch instruction to resource B, to be dispatched at 40 MW from hours ending 8 through 9 in real-time for the transmission procedure 7110. This resource had a day-ahead schedule of 20 MW from the day-ahead market, which implies that this exceptional dispatch instruction was an incremental instruction and the exceptional dispatch MW was 20 MW. Similarly, the details of exceptional dispatch (ED) instruction for resource C are shown in Table 4.

**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
01-Jul-09	RT	A	PG&E	Humboldt	06:00	11:00	30	0	Yes	INC	30	7110
01-Jul-09	RT	B	PG&E	Humboldt	07:00	09:00	40	20	No	INC	20	7110
01-Jul-09	RT	C	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	7110
01-Jul-09	RT	C	PG&E	Humboldt	16:00	20:00	50	40	No	INC	10	7110

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.

**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
1	RT	7110	PG&E	Humboldt	1-Jul-09	0-50	Yes	INC	15	06:00	20:00

### 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.

**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
01-Jul-09	RT	A	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430
01-Jul-09	RT	B	PG&E	Fresno	07:00	09:00	40	60	No	DEC	20	7430
01-Jul-09	RT	C	PG&E	Fresno	10:00	14:00	40	50	No	DEC	10	7430

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 inc and dec 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.

**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
1	RT	7430	PG&E	Fresno	1-Jul-09	20	Yes	INC	6	15:00	20:00
1	RT	7430	PG&E	Fresno	1-Jul-09	10-20	Yes	DEC	8	07:00	14:00

## 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 15<sup>th</sup> day of August 2014.

*S/ Sarah Garcia*  
Sarah Garcia