September 15, 2015

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

Re: California Independent System Operator Corporation
Docket Nos. ER08-1178-___, and EL08-88-___
July 2015 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 July 2015.

Respectfully submitted,

By: *__/s/ Sidney L. Mannheim__*

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Exceptional Dispatch Report

Table 1: July 2015

CAISO Market Quality and Renewable Integration **September 15, 2015**

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TABLE OF CONTENTS

LIST OF TABLES AND FIGURES

Introduction

This report is filed pursuant to FERC's September 2, 2009 and July 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 and reasons for Exceptional Dispatches issued in July 2015.

The Nature of Exceptional Dispatch

The CAISO 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[1]. 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. A real-time exceptional dispatch above the resource day-ahead award is an incremental exceptional dispatch instruction and an exceptional dispatch below the day-ahead award is 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.

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 non-modeled constraints or requirements and intertie emergency assistance. All of the transmission procedures are available on the CAISO website[2].

The following reason for exceptional dispatch instructions in July 2015 was not related to 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 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

[1] The CAISO can issue exceptional dispatch instructions subject to authority of the CAISO Tariff Section 34.9 and in accordance with CAISO Operating Procedure 2330 (formerly M-402).

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

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 July 2015, which are self explanatory.

The data in Table 1 is based on a template specified in the September 2009 order[3]. 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 there were 190 exceptional dispatches in July 2015, as compared to 233 exceptional dispatches in June 2015. Exceptional dispatches issued for the following reasons accounted for approximately 74 percent of the total exceptional dispatches during the reporting period: planned transmission outages and software limitations and operating procedure numbers 7110 and 7430, load forecast uncertainity.

[3] 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.

Table 1: Exceptional Dispatches in July 2015

California Independent System Operator Corporation
Exceptional Dispatch Report
September 15, 2015

Chart 1: Table of Exceptional Dispatches for Period 01/July/2015 - 31/July/2015

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	Bridging Schedules	PG&E	Bay Area	6/28/2015	45	No	INC	9	15:00	23:59
1	RT	Bridging Schedules	SDG&E	San Diego-IV	7/28/2015	20- 40	Yes	INC	2	22:00	23:59
2	RT	Conditions beyond the control of the CAISO	PG&E	Fresno	7/2/2015	83	No	INC	1	2:25	2:59
3	RT	Conditions beyond the control of the CAISO	PG&E	Fresno	7/29/2015	166- 249	Yes	INC	2	20:25	21:44
4	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	7/1/2015	3737- 3856	No	INC	12	10:00	21:59
5	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	7/18/2015	190- 380	No	INC	11	10:10	20:59
6	RT	Conditions beyond the control of the CAISO	SDG&E	San Diego-IV	7/23/2015	310	No	INC	1	9:06	9:14
7	RT	Conditions beyond the control of the CAISO	SDG&E	San Diego-IV	7/30/2015	68	No	INC	10	12:15	21:59
8	RT	Contingency Dispatch	PG&E	Fresno	7/19/2015	166- 300	No	INC	2	14:55	16:44
9	RT	Fast Start Unit Management	SCE	LA Basin	7/15/2015	0	No	INC	2	19:25	20:29
10	RT	Incomplete or Inaccurate Transmission	N/A	N/A	7/1/2015	15	No	INC	1	1:15	1:29
11	RT	Incomplete or Inaccurate Transmission	PG&E	Humboldt	7/1/2015	15	No	INC	5	1:00	5:59
12	RT	Incomplete or Inaccurate Transmission	PG&E	Kern	7/15/2015	36	No	INC	13	11:15	23:59
13	RT	Incomplete or Inaccurate Transmission	PG&E	NCNB	7/22/2015	151- 191	No	INC	11	6:00	16:44
14	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	7/11/2015	63	No	INC	7	8:40	15:29
15	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	7/18/2015	480- 520	No	INC	10	10:50	19:59
16	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	7/31/2015	40	No	INC	5	16:00	20:29
17	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/1/2015	45	No	INC	18	6:20	23:59
18	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/27/2015	45	No	INC	12	12:00	23:59
19	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/28/2015	130	No	INC	6	18:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
20	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/29/2015	45	No	INC	10	14:00	23:59
21	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/30/2015	45	No	INC	16	8:00	23:59
22	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/31/2015	60	No	INC	8	12:30	19:59
23	RT	Load Forecast Uncertainty	PG&E	Fresno	7/20/2015	20	No	INC	5	7:45	11:59
24	RT	Load Forecast Uncertainty	PG&E	N/A	7/17/2015	300	No	INC	5	6:50	10:59
25	RT	Load Forecast Uncertainty	PG&E	N/A	7/18/2015	300	No	INC	5	6:05	10:59
26	RT	Load Forecast Uncertainty	PG&E	N/A	7/27/2015	52	No	INC	7	17:00	23:59
27	RT	Load Forecast Uncertainty	PG&E	N/A	7/29/2015	52	No	INC	17	7:00	23:59
28	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/1/2015	250	No	INC	11	7:05	17:59
29	RT	Load Forecast Uncertainty	SCE	LA Basin	7/1/2015	840	No	INC	11	7:05	17:59
30	RT	Load Forecast Uncertainty	SCE	LA Basin	7/19/2015	10	No	INC	3	21:00	23:59
31	RT	Load Forecast Uncertainty	SCE	LA Basin	7/20/2015	25- 55	Yes	INC	14	10:00	23:59
32	RT	Load Forecast Uncertainty	SCE	LA Basin	7/28/2015	130	No	INC	3	21:00	23:59
33	RT	Load Forecast Uncertainty	SCE	LA Basin	7/29/2015	25- 335	No	INC	12	13:00	0:59
34	RT	Load Forecast Uncertainty	SCE	LA Basin	7/30/2015	170- 195	No	INC	19	5:00	23:59
35	RT	Load Forecast Uncertainty	SCE	N/A	7/20/2015	172	No	INC	15	6:00	20:59
36	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/20/2015	20	No	INC	14	10:00	23:59
37	RT	Market Disruption	PG&E	Fresno	7/1/2015	0	No	INC	3	22:10	0:29
38	RT	Market Disruption	SCE	LA Basin	7/23/2015	130	No	INC	1	9:20	9:59
39	RT	Market Disruption	SCE	LA Basin	7/31/2015	10	No	INC	2	12:55	14:29
40	RT	Operating Procedure Number and Constraint	N/A	N/A	7/5/2015	10- 20	No	INC	21	4:45	0:59
41	RT	Operating Procedure Number and Constraint	SDG&E	San Diego-IV	7/7/2015	21- 48	No	INC	10	9:45	18:59
42	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/4/2015	10	No	INC	1	1:25	1:44
43	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/8/2015	20	No	INC	16	6:00	21:59
44	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/9/2015	10	No	INC	1	2:10	2:59
45	RT	Operating Procedure Number and Constraint	N/A	N/A	7/10/2015	48	No	INC	2	21:08	22:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
		(7110)									
46	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/12/2015	80- 82	No	INC	1	22:00	22:09
47	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/13/2015	41- 126	No	INC	2	20:25	21:59
48	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/14/2015	10- 70	No	INC	19	6:00	0:29
49	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/15/2015	15	No	INC	3	5:15	7:59
50	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/16/2015	21- 40	No	INC	5	19:10	23:44
51	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/17/2015	11- 20	No	INC	19	5:30	0:29
52	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/18/2015	10- 20	No	INC	6	0:15	5:59
53	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/19/2015	10- 128	No	INC	1	0:00	0:34
54	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/20/2015	20- 98	No	INC	24	0:45	0:44
55	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/21/2015	14- 16	No	INC	15	5:32	19:59
56	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/22/2015	40- 60	No	INC	10	13:05	22:59
57	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/23/2015	48	No	INC	3	19:37	21:59
58	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/24/2015	14- 20	No	INC	17	5:37	21:59
59	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/25/2015	10	No	INC	12	8:00	19:59
60	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/26/2015	10- 40	No	INC	3	21:50	23:59
61	RT	Operating Procedure Number and Constraint	N/A	N/A	7/27/2015	12- 15	No	INC	13	5:12	17:29

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
		(7110)									
62	RT	Operating Procedure Number and Constraint (7110)	N/A	N/A	7/31/2015	12	No	INC	6	2:25	7:29
63	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/2/2015	16	No	INC	7	5:30	11:59
64	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/9/2015	10	No	INC	18	6:15	23:59
65	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/10/2015	10	No	INC	3	3:05	5:59
66	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/11/2015	14- 15	No	INC	15	9:40	23:59
67	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/12/2015	10	No	INC	6	8:59	13:59
68	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/13/2015	20	No	INC	1	23:25	23:59
69	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/14/2015	20	No	INC	1	0:00	0:59
70	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/15/2015	15- 30	No	INC	3	21:45	23:59
71	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/16/2015	15	No	INC	2	1:05	2:59
72	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/19/2015	35	No	INC	1	23:55	0:29
73	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/20/2015	25- 35	No	INC	1	0:30	0:59
74	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/21/2015	16	No	INC	4	16:57	19:59
75	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/23/2015	15- 30	No	INC	17	6:50	23:44
76	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/25/2015	10	No	INC	3	22:35	0:44
77	RT	Operating Procedure Number and Constraint	PG&E	Humboldt	7/26/2015	10- 20	No	INC	8	5:30	12:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
		(7110)									
78	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/27/2015	16- 20	No	INC	4	20:50	23:59
79	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/28/2015	10- 30	No	INC	9	4:55	12:59
80	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/29/2015	65	No	INC	3	21:40	23:44
81	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/30/2015	16- 24	No	INC	5	3:25	7:59
82	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/1/2015	25	No	INC	8	17:55	0:59
83	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/4/2015	42	No	INC	6	9:00	14:59
84	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/12/2015	20	No	INC	6	17:10	22:59
85	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/25/2015	20- 40	Yes	INC	2	21:30	22:44
86	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/29/2015	46- 88	No	INC	4	20:45	0:44
87	RT	Operating Procedure Number and Constraint (7410)	PG&E	N/A	7/29/2015	98	No	INC	4	18:59	21:59
88	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/2/2015	35	No	INC	5	11:53	15:59
89	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/4/2015	83- 250	No	INC	9	13:45	21:59
90	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/5/2015	83	No	INC	6	16:45	21:59
91	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/6/2015	6- 50	No	INC	1	0:30	0:59
92	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/7/2015	6	No	INC	7	1:00	7:44
93	RT	Operating Procedure Number and Constraint	PG&E	Fresno	7/13/2015	83- 166	No	INC	5	19:40	23:54

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
		(7430)									
94	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/14/2015	83	No	INC	11	14:17	0:29
95	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/15/2015	103	No	INC	1	23:05	23:59
96	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/16/2015	20- 103	No	INC	7	0:00	6:59
97	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/17/2015	83- 160	No	INC	2	22:47	0:09
98	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/18/2015	6- 160	No	INC	6	0:00	5:59
99	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/19/2015	54	No	INC	2	23:15	0:59
100	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/20/2015	10- 175	No	INC	17	8:00	0:29
101	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/21/2015	25- 382	No	INC	23	1:44	23:59
102	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/22/2015	6	No	INC	1	0:05	0:59
103	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/23/2015	83- 400	No	INC	22	0:00	21:59
104	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/24/2015	83	No	INC	5	15:50	19:59
105	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/25/2015	10- 20	No	INC	14	2:30	15:59
106	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/27/2015	6	No	INC	6	6:40	11:59
107	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/29/2015	6- 32	No	INC	18	6:01	23:29
108	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/30/2015	83	No	INC	11	14:27	0:59
109	RT	Operating Procedure Number and Constraint	PG&E	Fresno	7/31/2015	25- 83	No	INC	16	8:10	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
		(7430)									
110	RT	Operating Procedure Number and Constraint (7430)	PG&E	N/A	7/18/2015	299	No	INC	2	2:00	3:29
111	RT	Operating Procedure Number and Constraint (7430)	PG&E	N/A	7/21/2015	47- 300	No	INC	6	18:50	23:59
112	RT	Operating Procedure Number and Constraint (7430)	PG&E	N/A	7/22/2015	47	No	INC	1	0:05	0:59
113	RT	Other Reliability Requirement	N/A	N/A	7/30/2015	32- 48	No	INC	5	20:29	0:29
114	RT	Other Reliability Requirement	PG&E	Bay Area	7/28/2015	45	No	INC	13	6:00	18:34
115	RT	Other Reliability Requirement	PG&E	Bay Area	7/31/2015	45	No	INC	16	6:00	21:59
116	RT	Other Reliability Requirement	PG&E	Fresno	7/29/2015	90	No	INC	10	15:10	0:59
117	RT	Other Reliability Requirement	PG&E	Humboldt	7/30/2015	44- 65	No	INC	4	20:40	0:14
118	RT	Other Reliability Requirement	PG&E	Humboldt	7/31/2015	44- 45	No	INC	1	0:15	0:44
119	RT	Other Reliability Requirement	PG&E	Kern	7/13/2015	35	No	INC	2	20:00	21:59
120	RT	Other Reliability Requirement	PG&E	Kern	7/20/2015	36	No	INC	14	10:10	23:59
121	RT	Other Reliability Requirement	PG&E	N/A	7/7/2015	47	No	INC	6	4:05	9:59
122	RT	Over Generation	PG&E	Bay Area	7/1/2015	285- 561	No	INC	2	22:30	23:54
123	RT	Over Generation	PG&E	Fresno	7/19/2015	83	No	INC	2	15:15	16:44
124	RT	Over Generation	PG&E	N/A	7/1/2015	52- 352	No	INC	1	22:55	23:29
125	RT	Over Generation	SCE	LA Basin	7/1/2015	600	No	INC	1	22:25	22:59
126	RT	Over Generation	SDG&E	San Diego-IV	7/1/2015	310- 600	No	INC	2	22:30	23:59
127	RT	Planned Transmission Outage and Constraint	N/A	N/A	7/7/2015	20	No	INC	3	4:10	6:59
128	RT	Planned Transmission Outage and Constraint	N/A	N/A	7/13/2015	16- 150	No	INC	12	5:10	16:29
129	RT	Planned Transmission Outage and Constraint	N/A	N/A	7/14/2015	20	No	INC	1	22:55	23:44
130	RT	Planned Transmission Outage and Constraint	N/A	N/A	7/31/2015	30- 65	No	INC	17	7:15	23:59
131	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	7/4/2015	485- 612	No	INC	6	4:53	9:59
132	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	7/20/2015	580	No	INC	1	16:05	16:59
133	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	7/31/2015	470- 490	No	INC	4	10:16	13:59
134	RT	Planned Transmission Outage and Constraint	PG&E	Kern	7/14/2015	35	No	INC	4	17:55	21:44

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
135	RT	Planned Transmission Outage and Constraint	PG&E	Kern	7/21/2015	32- 64	Yes	INC	6	16:21	21:59
136	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/1/2015	650- 690	No	INC	4	16:45	20:29
137	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/20/2015	170	No	INC	7	10:55	17:14
138	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/27/2015	400	No	INC	11	12:50	22:59
139	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/28/2015	342- 490	No	INC	8	14:25	21:59
140	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/29/2015	240-1142	No	INC	5	10:45	15:44
141	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/30/2015	670- 707	No	INC	14	9:05	22:59
142	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	7/27/2015	45- 63	No	INC	6	16:00	21:59
143	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	7/28/2015	65- 130	No	INC	4	10:54	13:59
144	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	7/11/2015	100- 120	No	INC	10	1:45	11:14
145	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	7/20/2015	20- 160	No	INC	22	2:00	23:59
146	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	7/22/2015	20	No	INC	4	6:00	9:59
147	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	7/23/2015	20	No	INC	2	6:00	7:44
148	RT	Planned Transmission Outage and Constraint	SCE	LA Basin	7/27/2015	65- 884	No	INC	5	8:15	13:14
149	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/7/2015	21- 48	No	INC	9	9:25	17:29
150	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/9/2015	281	No	INC	3	12:25	14:29
151	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/10/2015	40- 801	No	INC	10	5:00	14:44
152	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/11/2015	63	No	INC	2	7:30	8:59
153	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/13/2015	63	No	INC	8	11:45	18:59
154	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/22/2015	63	No	INC	10	10:05	19:59
155	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/24/2015	63	No	INC	8	12:30	19:59
156	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/25/2015	63- 421	No	INC	9	8:45	16:59
157	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/27/2015	63	No	INC	14	8:00	21:59
158	RT	Reverse Commitment Instruction	PG&E	Fresno	7/19/2015	6	No	INC	1	15:05	15:14
159	RT	Software Limitation	N/A	N/A	7/31/2015	20	No	INC	1	1:55	2:44
160	RT	Software Limitation	PG&E	Bay Area	7/15/2015	264	No	INC	1	22:00	22:59
161	RT	Software Limitation	PG&E	Fresno	7/10/2015	50	No	INC	7	17:00	23:59
162	RT	Software Limitation	PG&E	Fresno	7/11/2015	50	No	INC	8	17:00	0:59
163	RT	Software Limitation	PG&E	Fresno	7/12/2015	50	No	INC	2	0:15	1:29

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
164	RT	Software Limitation	PG&E	Fresno	7/13/2015	0	No	INC	1	19:45	20:44
165	RT	Software Limitation	PG&E	Fresno	7/14/2015	50	No	INC	3	20:35	22:59
166	RT	Software Limitation	PG&E	Fresno	7/15/2015	50- 98	No	INC	7	16:30	22:59
167	RT	Software Limitation	PG&E	Fresno	7/16/2015	50	No	INC	9	15:30	23:59
168	RT	Software Limitation	PG&E	Fresno	7/19/2015	547- 808	No	INC	1	19:48	20:09
169	RT	Software Limitation	PG&E	Fresno	7/30/2015	65	No	INC	7	16:11	22:59
170	RT	Software Limitation	PG&E	Humboldt	7/31/2015	15- 30	No	INC	3	0:05	2:29
171	RT	Software Limitation	PG&E	N/A	7/11/2015	0	No	INC	8	14:14	21:34
172	RT	Software Limitation	PG&E	N/A	7/20/2015	45- 147	No	INC	8	10:10	17:14
173	RT	Software Limitation	PG&E	N/A	7/21/2015	0	No	INC	1	0:25	0:54
174	RT	Software Limitation	PG&E	N/A	7/30/2015	190- 587	No	INC	7	10:00	16:14
175	RT	Software Limitation	SCE	Big Creek-Ventura	7/23/2015	20	No	INC	8	10:00	17:59
176	RT	Software Limitation	SCE	LA Basin	7/1/2015	96- 480	No	INC	4	13:40	17:14
177	RT	Software Limitation	SCE	LA Basin	7/3/2015	0	No	INC	21	3:15	23:54
178	RT	Software Limitation	SCE	LA Basin	7/23/2015	0	No	INC	8	5:30	13:14
179	RT	Software Limitation	SCE	LA Basin	7/24/2015	20	No	INC	1	0:40	1:14
180	RT	Software Limitation	SDG&E	San Diego-IV	7/13/2015	225-1105	No	INC	10	12:50	22:14
181	RT	Software Limitation	SDG&E	San Diego-IV	7/18/2015	0	No	INC	3	2:30	5:29
182	RT	Software Limitation	SDG&E	San Diego-IV	7/20/2015	0	No	INC	2	1:00	2:59
183	RT	Start-Up Instructions	N/A	N/A	7/26/2015	40	No	INC	1	22:15	22:44
184	RT	Start-Up Instructions	PG&E	Sierra	7/28/2015	42	No	INC	3	21:00	23:59
185	RT	Unit Testing	PG&E	Bay Area	7/13/2015	299	No	INC	10	8:00	17:29
186	RT	Unit Testing	PG&E	Bay Area	7/30/2015	100	No	INC	1	11:45	12:14
187	RT	Unplanned Outage	PG&E	Fresno	7/1/2015	40	No	INC	3	22:27	0:44
188	RT	Unplanned Outage	PG&E	Fresno	7/2/2015	35	No	INC	3	0:15	2:59
189	RT	Unplanned Outage	PG&E	Fresno	7/19/2015	0	No	INC	1	15:50	16:19
190	RT	Voltage Support	PG&E	Kern	7/15/2015	36	No	INC	5	7:00	11:29

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 CAISO 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 CAISO 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. Here 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 2, 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 that there might be 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 CAISO 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 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 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. 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 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 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.

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. 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 15th day of September, 2015.

/s/ Jennifer Rotz

Jennifer Rotz