

September 15, 2017

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

**Re: California Independent System Operator Corporation
Docket Nos. ER08-1178-_____ and EL08-88-_____
July 2017 Exceptional Dispatch Report (Chart 1 data)**

Dear Secretary Bose:

Pursuant to the Federal Energy Regulatory Commission's (Commission) September 2, 2009 (September 2 order), and May 4, 2010 (May 4 order) orders in the above-referenced dockets, the California Independent System Operator Corporation (CAISO) submits the attached report for filing. 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 CAISO's September 14, 2009 motion for clarification, which the Commission granted in its May 4 order. The attached report provides Chart 1 data for the month of July 2017.

Respectfully submitted,

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Exceptional Dispatch Report

Table 1: July 2017

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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 2017.

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 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 inertia emergency assistance. All of the transmission procedures are available on the CAISO website.²

The following reason for exceptional dispatch instructions in July 2017 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 resource had a minimum down time of 24 hours and it is required the following

¹ The CAISO can issue exceptional dispatch instructions subject to authority of the CAISO Tariff Section 34.11 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>

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 2017, 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 column specifies if there was an incremental dispatch or a decremental dispatch from the IFM schedule. 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 318 exceptional dispatches in July 2017, as compared to 383 exceptional dispatches in June 2017. Exceptional dispatches issued for the following reasons accounted for approximately 38 percent of the total exceptional dispatches during the reporting period: planned transmission outages, software limitations, and operating procedure number 7110 (along with 6310, 7230, 7430, and 7820). Many of the exceptional dispatches with the reason “Other Reliability Requirement” were due to Real Time Contingency Analysis.

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 2017

**California Independent System Operator Corporation
Exceptional Dispatch Report
September 15, 2017**

Chart 1: Table of Exceptional Dispatches for Period 01/July/2017 - 31/July/2017

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	Bridging Schedules	SCE	Big Creek-Ventura	7/8/2017	50	No	INC	2	22:00	23:59
2	RT	Bridging Schedules	SCE	LA Basin	7/9/2017	20	No	INC	2	22:50	23:59
3	RT	Bridging Schedules	SCE	LA Basin	7/31/2017	10	Yes	INC	1	23:00	23:59
4	RT	Conditions beyond the control of the CAISO	PG&E	Bay Area	7/27/2017	235	No	INC	8	14:30	21:59
5	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	7/14/2017	0	No	INC	4	15:05	18:29
6	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	7/14/2017	0	No	INC	4	15:30	18:59
7	RT	Contingency Dispatch	PG&E	Bay Area	7/13/2017	240	No	INC	1	11:39	12:29
8	RT	Contingency Dispatch	SCE	Big Creek-Ventura	7/13/2017	63- 80	No	INC	1	11:39	12:29
9	RT	Contingency Dispatch	SCE	LA Basin	7/13/2017	509-515	No	INC	1	11:39	12:29
10	RT	Fast Start Unit Management	PG&E	Bay Area	7/14/2017	0	No	INC	1	3:05	3:59
11	RT	Fast Start Unit Management	PG&E	Bay Area	7/14/2017	0	No	INC	1	2:55	3:29
12	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/1/2017	5- 40	No	DEC	24	0:00	23:59
13	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/1/2017	4- 40	No	INC	24	0:00	23:59
14	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/2/2017	10- 40	No	DEC	24	0:00	23:59
15	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/2/2017	26- 40	No	INC	24	0:00	23:59
16	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/3/2017	10- 40	No	DEC	24	0:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
17	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/3/2017	26- 40	No	INC	24	0:00	23:59
18	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/4/2017	10- 40	No	DEC	24	0:00	23:59
19	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/4/2017	26- 40	No	INC	24	0:00	23:59
20	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/5/2017	10- 40	No	DEC	24	0:00	23:59
21	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/5/2017	13- 40	No	INC	24	0:00	23:59
22	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/6/2017	10- 40	No	DEC	24	0:00	23:59
23	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/6/2017	13- 40	No	INC	24	0:00	23:59
24	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/7/2017	10- 40	No	DEC	24	0:00	23:59
25	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/7/2017	13- 40	No	INC	24	0:00	23:59
26	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/8/2017	5- 40	No	DEC	24	0:00	23:59
27	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/8/2017	13- 40	No	INC	24	0:00	23:59
28	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/9/2017	10- 40	No	DEC	24	0:00	23:59
29	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/9/2017	13- 40	No	INC	24	0:00	23:59
30	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/10/2017	10- 40	No	DEC	24	0:00	23:59
31	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/10/2017	13- 40	No	INC	24	0:00	23:59
32	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/11/2017	10- 40	No	DEC	24	0:00	23:59
33	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/11/2017	13- 40	No	INC	24	0:00	23:59
34	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/12/2017	10- 40	No	DEC	24	0:00	23:59
35	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/12/2017	13- 40	No	INC	24	0:00	23:59
36	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/13/2017	10- 40	No	DEC	24	0:00	23:59
37	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/13/2017	13- 40	No	INC	24	0:00	23:59
38	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/14/2017	10- 40	No	DEC	24	0:00	23:59
39	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/14/2017	13- 40	No	INC	24	0:00	23:59
40	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/15/2017	10- 40	No	DEC	24	0:00	23:59
41	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/15/2017	13- 40	No	INC	24	0:00	23:59
42	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/16/2017	10- 40	No	DEC	24	0:00	23:59
43	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/16/2017	16- 40	No	INC	24	0:00	23:59
44	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/17/2017	10- 40	No	DEC	24	0:00	23:59
45	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/17/2017	13- 40	No	INC	24	0:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
46	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/18/2017	10- 40	No	DEC	24	0:00	23:59
47	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/18/2017	13- 40	No	INC	24	0:00	23:59
48	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/19/2017	10- 40	No	DEC	24	0:00	23:59
49	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/19/2017	13- 40	No	INC	24	0:00	23:59
50	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/20/2017	10- 40	No	DEC	24	0:00	23:59
51	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/20/2017	13- 40	No	INC	24	0:00	23:59
52	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/21/2017	10- 40	No	DEC	24	0:00	23:59
53	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/21/2017	13- 40	No	INC	24	0:00	23:59
54	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/22/2017	10- 40	No	DEC	24	0:00	23:59
55	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/22/2017	4- 40	No	INC	24	0:00	23:59
56	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/23/2017	10- 40	No	DEC	24	0:00	23:59
57	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/23/2017	4- 40	No	INC	24	0:00	23:59
58	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/24/2017	10- 40	No	DEC	24	0:00	23:59
59	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/24/2017	13- 40	No	INC	24	0:00	23:59
60	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/25/2017	10- 40	No	DEC	24	0:00	23:59
61	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/25/2017	13- 40	No	INC	24	0:00	23:59
62	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/26/2017	10- 40	No	DEC	24	0:00	23:59
63	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/26/2017	13- 40	No	INC	24	0:00	23:59
64	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/27/2017	10- 40	No	DEC	24	0:00	23:59
65	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/27/2017	13- 40	No	INC	24	0:00	23:59
66	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/28/2017	10- 40	No	DEC	24	0:00	23:59
67	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/28/2017	16- 40	No	INC	24	0:00	23:59
68	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/29/2017	10- 40	No	DEC	24	0:00	23:59
69	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/29/2017	16- 40	No	INC	24	0:00	23:59
70	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/30/2017	10- 40	No	DEC	24	0:00	23:59
71	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/30/2017	13- 40	No	INC	24	0:00	23:59
72	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/31/2017	5- 40	No	DEC	24	0:00	23:14
73	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	7/31/2017	13- 40	No	INC	24	0:00	23:59
74	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	8/1/2017	40	No	INC	23	0:00	22:29

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
75	RT	Incomplete or Inaccurate Transmission	PG&E	Kern	7/11/2017	32	No	INC	5	16:50	20:59
76	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/7/2017	260-280	No	DEC	2	19:45	20:59
77	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/7/2017	260-280	No	INC	2	19:45	20:59
78	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/9/2017	20	No	DEC	4	8:00	11:59
79	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/9/2017	20	No	INC	4	8:00	11:59
80	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/13/2017	25	No	DEC	2	4:00	5:44
81	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/13/2017	25	No	INC	2	4:00	5:44
82	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/14/2017	15	No	DEC	2	3:40	5:29
83	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	7/14/2017	15	No	INC	2	3:40	5:29
84	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	7/27/2017	25	No	INC	6	14:40	19:59
85	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/7/2017	117	No	INC	16	8:00	23:59
86	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/13/2017	54- 303	No	INC	15	7:45	21:59
87	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/27/2017	100	No	DEC	2	18:00	19:59
88	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/27/2017	117	No	INC	11	13:00	23:59
89	RT	Load Forecast Uncertainty	PG&E	Bay Area	7/31/2017	117	No	INC	8	14:00	21:59
90	RT	Load Forecast Uncertainty	PG&E	Fresno	7/2/2017	83	No	INC	1	17:34	17:59
91	RT	Load Forecast Uncertainty	PG&E	Fresno	7/7/2017	48	No	DEC	3	17:00	19:59
92	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/5/2017	20	Yes	INC	8	16:30	23:59
93	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/6/2017	20- 140	Yes	INC	24	0:00	23:59
94	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/7/2017	100-375	No	INC	6	18:45	23:59
95	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/8/2017	100	No	INC	22	0:00	21:59
96	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/9/2017	50	No	INC	24	0:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
97	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/10/2017	50-1020	No	INC	24	0:00	23:59
98	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/11/2017	100-520	Yes	INC	14	10:00	23:59
99	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/12/2017	100-802	No	INC	24	0:00	23:59
100	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/13/2017	100-1400	No	INC	24	0:00	23:59
101	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/14/2017	100-243	No	INC	24	0:00	23:59
102	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/15/2017	100	No	INC	24	0:00	23:59
103	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/16/2017	100	No	INC	24	0:00	23:59
104	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/17/2017	20- 40	Yes	INC	11	13:00	23:59
105	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	7/31/2017	50	No	INC	9	15:00	23:59
106	RT	Load Forecast Uncertainty	SCE	LA Basin	7/3/2017	10	No	INC	5	19:00	23:59
107	RT	Load Forecast Uncertainty	SCE	LA Basin	7/4/2017	65	No	DEC	6	16:15	21:59
108	RT	Load Forecast Uncertainty	SCE	LA Basin	7/4/2017	20- 388	No	INC	15	9:00	23:59
109	RT	Load Forecast Uncertainty	SCE	LA Basin	7/5/2017	65	No	DEC	8	13:15	20:59
110	RT	Load Forecast Uncertainty	SCE	LA Basin	7/5/2017	10- 390	Yes	INC	21	3:00	23:59
111	RT	Load Forecast Uncertainty	SCE	LA Basin	7/6/2017	10- 110	Yes	INC	15	9:00	23:59
112	RT	Load Forecast Uncertainty	SCE	LA Basin	7/7/2017	70- 528	No	INC	21	0:00	20:59
113	RT	Load Forecast Uncertainty	SCE	LA Basin	7/8/2017	25- 50	Yes	INC	14	10:00	23:59
114	RT	Load Forecast Uncertainty	SCE	LA Basin	7/9/2017	50	Yes	INC	24	0:00	23:59
115	RT	Load Forecast Uncertainty	SCE	LA Basin	7/10/2017	20- 214	Yes	INC	24	0:00	23:59
116	RT	Load Forecast Uncertainty	SCE	LA Basin	7/11/2017	35- 346	Yes	INC	24	0:00	23:59
117	RT	Load Forecast Uncertainty	SCE	LA Basin	7/16/2017	10	Yes	INC	24	0:00	23:59
118	RT	Load Forecast Uncertainty	SCE	LA Basin	7/17/2017	130	No	DEC	14	10:00	23:58

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
119	RT	Load Forecast Uncertainty	SCE	LA Basin	7/17/2017	10	Yes	INC	24	0:00	23:59
120	RT	Load Forecast Uncertainty	SCE	LA Basin	7/19/2017	130	No	INC	22	2:00	23:59
121	RT	Load Forecast Uncertainty	SCE	LA Basin	7/27/2017	20- 40	Yes	INC	17	7:00	23:59
122	RT	Load Forecast Uncertainty	SCE	LA Basin	7/28/2017	20	Yes	INC	14	7:00	20:59
123	RT	Load Forecast Uncertainty	SCE	LA Basin	7/30/2017	130	No	INC	10	14:00	23:58
124	RT	Load Forecast Uncertainty	SCE	LA Basin	7/31/2017	25- 240	Yes	INC	14	10:00	23:59
125	RT	Load Forecast Uncertainty	SCE	N/A	7/5/2017	172-710	No	INC	8	13:00	20:59
126	RT	Load Forecast Uncertainty	SCE	N/A	7/10/2017	10- 20	No	DEC	13	10:45	23:44
127	RT	Load Forecast Uncertainty	SCE	N/A	7/10/2017	10	No	INC	13	11:15	23:44
128	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/5/2017	20- 262	No	INC	12	12:00	23:59
129	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/6/2017	20- 40	Yes	INC	24	0:00	23:59
130	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/7/2017	20	Yes	INC	2	22:00	23:59
131	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/8/2017	20- 244	Yes	INC	24	0:00	23:59
132	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/9/2017	20	No	INC	24	0:00	23:59
133	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/10/2017	20- 146	No	INC	12	12:00	23:59
134	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/11/2017	20- 136	No	INC	22	2:00	23:59
135	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/12/2017	20- 126	No	INC	24	0:00	23:59
136	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/13/2017	20	No	INC	24	0:00	23:59
137	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/14/2017	20- 126	No	INC	24	0:00	23:59
138	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/15/2017	20	No	INC	24	0:00	23:59
139	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/16/2017	20	No	INC	24	0:00	23:59
140	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/17/2017	20	No	INC	12	12:00	23:59
141	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/26/2017	20	No	INC	2	22:00	23:59
142	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/27/2017	40	No	INC	24	0:00	23:59
143	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/30/2017	68	No	INC	4	17:45	20:59
144	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	7/31/2017	20- 63	No	INC	14	10:00	23:59
145	RT	Load Pull	PG&E	Bay Area	7/10/2017	98	No	DEC	2	18:00	19:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
146	RT	Load Pull	SCE	Big Creek-Ventura	7/31/2017	250	No	INC	5	16:30	20:59
147	RT	Load Pull	SCE	LA Basin	7/2/2017	190	No	DEC	4	17:00	20:59
148	RT	Load Pull	SCE	LA Basin	7/2/2017	190	No	INC	4	17:00	20:59
149	RT	Load Pull	SCE	LA Basin	7/3/2017	380	No	INC	4	17:43	20:59
150	RT	Load Pull	SCE	LA Basin	7/24/2017	130	No	DEC	11	9:40	19:59
151	RT	Load Pull	SCE	LA Basin	7/31/2017	194	No	DEC	6	15:20	20:59
152	RT	Load Pull	SCE	LA Basin	7/31/2017	142	No	INC	7	14:00	20:59
153	RT	Load Pull	SDG&E	San Diego-IV	7/24/2017	68	No	DEC	12	8:55	19:59
154	RT	Load Pull	SDG&E	San Diego-IV	7/24/2017	63- 68	No	INC	12	8:55	19:59
155	RT	Load Pull	SDG&E	San Diego-IV	7/25/2017	68	No	DEC	10	10:00	19:59
156	RT	Load Pull	SDG&E	San Diego-IV	7/25/2017	63	No	INC	10	10:00	19:59
157	RT	Load Pull	SDG&E	San Diego-IV	7/27/2017	131	No	INC	8	14:00	21:59
158	RT	Load Pull	SDG&E	San Diego-IV	7/29/2017	68	No	INC	6	16:05	21:59
159	RT	Operating Procedure Number and Constraint (6310)	PG&E	Humboldt	7/21/2017	13- 28	No	DEC	24	0:00	23:59
160	RT	Operating Procedure Number and Constraint (6310)	PG&E	Humboldt	7/21/2017	13- 28	No	INC	24	0:00	23:59
161	RT	Operating Procedure Number and Constraint (6310)	PG&E	Humboldt	7/26/2017	32- 44	No	DEC	14	6:35	20:29
162	RT	Operating Procedure Number and Constraint (6310)	PG&E	Humboldt	7/26/2017	13- 129	No	INC	24	0:00	23:29
163	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/1/2017	11- 16	No	INC	14	10:45	23:59
164	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/2/2017	11- 44	No	INC	24	0:00	23:59
165	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/3/2017	12	No	DEC	7	1:10	7:59
166	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/3/2017	12- 48	No	INC	23	0:00	22:29

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
167	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/6/2017	10	No	DEC	10	7:40	16:59
168	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/6/2017	10- 43	No	INC	16	7:40	22:59
169	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/7/2017	10	No	INC	4	8:25	11:59
170	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/8/2017	30	No	DEC	2	22:50	23:59
171	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/8/2017	30	No	INC	2	22:50	23:59
172	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/9/2017	22	No	DEC	5	9:40	14:29
173	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/9/2017	22- 30	No	INC	15	0:00	14:29
174	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/14/2017	12	No	DEC	6	3:15	9:14
175	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/14/2017	12	No	INC	6	3:15	9:14
176	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/16/2017	16- 43	No	DEC	3	21:45	23:59
177	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/16/2017	43	No	INC	3	21:45	23:59
178	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/17/2017	15- 64	No	DEC	20	0:00	19:59
179	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/17/2017	16- 24	No	INC	20	0:00	19:59
180	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/18/2017	16	No	DEC	3	21:35	23:59
181	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/18/2017	16	No	INC	2	21:40	23:29
182	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/19/2017	10- 16	No	DEC	24	0:15	23:29

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
183	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/19/2017	15- 24	No	INC	24	0:00	23:29
184	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/20/2017	15- 16	No	DEC	7	17:00	23:59
185	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/20/2017	16- 51	No	INC	17	7:30	23:59
186	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/22/2017	13	No	DEC	8	0:00	7:59
187	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/22/2017	13	No	INC	1	0:00	0:29
188	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/24/2017	32	No	DEC	2	22:20	23:59
189	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/24/2017	32	No	INC	2	22:20	23:59
190	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/25/2017	16	No	DEC	6	1:20	6:59
191	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/25/2017	13- 32	No	INC	24	0:00	23:59
192	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/27/2017	13- 32	No	DEC	24	0:50	23:59
193	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/27/2017	13- 45	No	INC	24	0:50	23:59
194	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/28/2017	16	No	DEC	23	1:40	23:59
195	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/28/2017	16- 45	No	INC	22	0:00	21:59
196	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/29/2017	13- 30	No	DEC	23	0:00	22:59
197	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/29/2017	13- 16	No	INC	23	0:00	22:59
198	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/30/2017	15- 30	No	DEC	4	16:50	19:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
199	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/30/2017	15	No	INC	4	16:50	19:59
200	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/31/2017	32	No	DEC	2	22:45	23:59
201	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	7/31/2017	25- 51	No	INC	17	7:30	23:59
202	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/4/2017	20	No	INC	5	18:50	22:59
203	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/8/2017	42	Yes	INC	1	23:00	23:59
204	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/9/2017	42	No	INC	2	22:55	23:59
205	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/14/2017	20	No	INC	2	22:30	23:59
206	RT	Operating Procedure Number and Constraint (7230)	PG&E	Sierra	7/15/2017	20	No	INC	1	0:00	0:44
207	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/1/2017	69- 140	No	DEC	19	5:21	23:59
208	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/1/2017	69- 75	No	INC	18	5:21	22:44
209	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/2/2017	67- 80	No	DEC	24	0:00	23:59
210	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/2/2017	70	No	INC	19	5:10	23:59
211	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/3/2017	65- 70	No	DEC	8	0:00	7:59
212	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/5/2017	75- 82	No	DEC	3	21:00	23:59
213	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/6/2017	75	No	DEC	3	21:40	23:59
214	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/6/2017	70- 75	No	INC	24	0:15	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
215	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/7/2017	67	No	DEC	3	2:25	4:59
216	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/7/2017	70- 75	No	INC	6	0:00	5:59
217	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/11/2017	72	No	DEC	12	8:30	19:59
218	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/11/2017	72	No	INC	12	8:30	19:59
219	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/12/2017	75- 84	No	DEC	4	20:05	23:59
220	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/12/2017	70- 84	No	INC	4	20:05	23:59
221	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/13/2017	70	No	INC	2	0:00	1:59
222	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/14/2017	130- 513	No	DEC	4	20:10	23:14
223	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/14/2017	75- 593	No	INC	3	20:50	23:44
224	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/23/2017	83	No	INC	1	23:00	23:59
225	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/25/2017	500	No	DEC	1	20:32	21:14
226	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/28/2017	330- 525	No	DEC	2	20:14	21:59
227	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	7/28/2017	175	No	INC	2	20:40	21:59
228	RT	Operating Procedure Number and Constraint (7430)	PG&E	N/A	7/10/2017	47	No	INC	1	0:50	1:29
229	RT	Operating Procedure Number and Constraint (7820)	SDG&E	San Diego-IV Big Creek- Ventura	7/20/2017	63- 64	No	INC	9	11:45	19:59
230	RT	Other Reliability Requirement	SCE	San Diego-IV Big Creek- Ventura	7/14/2017	0	No	INC	6	18:30	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
231	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	7/15/2017	0	No	INC	24	0:00	23:59
232	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	7/16/2017	0	No	INC	15	0:25	14:29
233	RT	Other Reliability Requirement	SCE	LA Basin	7/10/2017	422	No	DEC	1	15:20	15:24
234	RT	Other Reliability Requirement	SDG&E	San Diego-IV	7/10/2017	311	No	DEC	1	15:02	15:24
235	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/5/2017	10	No	INC	2	7:50	9:44
236	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/10/2017	144	No	DEC	17	7:00	23:59
237	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/10/2017	144	No	INC	17	7:00	23:59
238	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/11/2017	48- 72	No	DEC	24	0:45	23:59
239	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/11/2017	24- 144	No	INC	24	0:00	23:59
240	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/12/2017	24- 72	No	DEC	24	0:00	23:59
241	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/12/2017	48- 72	No	INC	24	0:00	23:59
242	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/13/2017	24- 72	No	DEC	24	0:00	23:59
243	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/13/2017	48- 72	No	INC	24	0:00	23:59
244	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/14/2017	24	No	DEC	21	3:10	23:59
245	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/14/2017	24- 72	No	INC	24	0:00	23:59
246	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/15/2017	24	No	INC	4	0:00	3:14
247	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/18/2017	15	No	DEC	13	7:10	19:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
248	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/18/2017	15	No	INC	13	7:10	19:59
249	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/27/2017	30- 76	No	DEC	6	9:05	14:59
250	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	7/27/2017	38- 46	No	INC	6	9:05	14:59
251	RT	Planned Transmission Outage and Constraint	PG&E	N/A	7/5/2017	40- 55	No	DEC	2	18:20	19:59
252	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	7/4/2017	35- 71	No	INC	5	7:50	11:59
253	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/5/2017	20	No	INC	2	10:00	11:59
254	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/6/2017	20- 126	No	INC	9	8:00	16:59
255	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/14/2017	15	No	INC	11	8:15	18:59
256	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/17/2017	37	No	INC	2	10:15	11:59
257	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/20/2017	20	No	INC	4	20:00	23:59
258	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/21/2017	39	No	DEC	10	10:40	20:29
259	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/21/2017	20- 59	No	INC	21	0:00	20:29
260	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/24/2017	260	No	DEC	2	9:25	10:59
261	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/24/2017	260	No	INC	2	9:25	10:59
262	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/25/2017	68- 522	No	DEC	12	5:50	17:29
263	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/25/2017	20- 194	No	INC	22	2:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
264	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/26/2017	20- 337	No	INC	24	0:00	23:59
265	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/27/2017	37	No	INC	2	7:15	8:59
266	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/28/2017	20	No	INC	24	0:00	23:59
267	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/29/2017	20	No	INC	24	0:00	23:59
268	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	7/30/2017	20	No	INC	24	0:00	23:59
269	RT	Software Limitation	PG&E	Fresno	7/2/2017	0	No	INC	1	0:00	0:59
270	RT	Software Limitation	PG&E	Fresno	7/4/2017	0	No	INC	5	7:10	12:04
271	RT	Software Limitation	PG&E	Fresno	7/23/2017	0	No	INC	1	23:00	23:59
272	RT	Software Limitation	PG&E	Humboldt	7/5/2017	0	No	INC	1	10:00	10:59
273	RT	Software Limitation	PG&E	Humboldt	7/24/2017	33	No	DEC	1	22:35	22:59
274	RT	Software Limitation	PG&E	Kern	7/27/2017	0	No	INC	1	23:00	23:59
275	RT	Software Limitation	PG&E	Kern	7/28/2017	0	No	INC	1	0:00	0:59
276	RT	Software Limitation	PG&E	N/A	7/7/2017	0	No	INC	2	22:49	23:59
277	RT	Software Limitation	PG&E	N/A	7/8/2017	0	No	INC	24	0:00	23:34
278	RT	Software Limitation	SCE	LA Basin	7/7/2017	10	Yes	INC	2	22:00	23:59
279	RT	Software Limitation	SCE	LA Basin	7/16/2017	150	No	INC	1	23:15	23:59
280	RT	Software Limitation	SCE	LA Basin	7/17/2017	20- 150	No	INC	24	0:00	23:59
281	RT	Software Limitation	SCE	LA Basin	7/30/2017	20- 30	No	INC	20	4:00	23:59
282	RT	Software Limitation	SDG&E	San Diego-IV	7/26/2017	68	No	DEC	14	6:00	19:59
283	RT	Software Limitation	SDG&E	San Diego-IV	7/26/2017	63- 131	No	INC	15	5:15	19:59
284	RT	Unit Testing	Intertie	N/A	7/1/2017	42	No	INC	24	0:00	23:59
285	RT	Unit Testing	Intertie	N/A	7/2/2017	42	No	INC	24	0:00	23:59
286	RT	Unit Testing	Intertie	N/A	7/3/2017	42	No	INC	24	0:00	23:59
287	RT	Unit Testing	Intertie	N/A	7/4/2017	42	No	INC	24	0:00	23:59
288	RT	Unit Testing	Intertie	N/A	7/5/2017	42	No	INC	24	0:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
289	RT	Unit Testing	Intertie	N/A	7/6/2017	42	No	INC	24	0:00	23:59
290	RT	Unit Testing	Intertie	N/A	7/7/2017	42	No	INC	17	0:00	16:59
291	RT	Unit Testing	Intertie	N/A	7/15/2017	4	No	INC	12	12:20	23:59
292	RT	Unit Testing	Intertie	N/A	7/16/2017	12- 24	No	INC	24	0:00	23:59
293	RT	Unit Testing	Intertie	N/A	7/17/2017	24	No	INC	24	0:00	23:59
294	RT	Unit Testing	Intertie	N/A	7/18/2017	24- 42	No	INC	24	0:00	23:59
295	RT	Unit Testing	Intertie	N/A	7/19/2017	42	No	INC	24	0:00	23:59
296	RT	Unit Testing	Intertie	N/A	7/20/2017	42	No	INC	24	0:00	23:59
297	RT	Unit Testing	Intertie	N/A	7/21/2017	42	No	INC	24	0:00	23:59
298	RT	Unit Testing	Intertie	N/A	7/22/2017	42	No	INC	21	0:00	20:59
299	RT	Unit Testing	Intertie	N/A	7/23/2017	42	No	INC	24	0:00	23:59
300	RT	Unit Testing	Intertie	N/A	7/24/2017	42	No	INC	24	0:40	23:59
301	RT	Unit Testing	Intertie	N/A	7/25/2017	42	No	INC	24	0:00	23:59
302	RT	Unit Testing	Intertie	N/A	7/26/2017	63	No	INC	24	0:00	23:59
303	RT	Unit Testing	Intertie	N/A	7/27/2017	63	No	INC	14	10:00	23:59
304	RT	Unit Testing	Intertie	N/A	7/28/2017	126	No	INC	24	0:00	23:59
305	RT	Unit Testing	Intertie	N/A	7/29/2017	63	No	INC	24	0:00	23:59
306	RT	Unit Testing	Intertie	N/A	7/30/2017	63	No	INC	24	0:00	23:59
307	RT	Unit Testing	Intertie	N/A	7/31/2017	63	No	INC	21	3:30	23:59
308	RT	Unit Testing	PG&E	Bay Area	7/7/2017	468	No	DEC	4	15:10	18:59
309	RT	Unit Testing	PG&E	Bay Area	7/25/2017	572	No	DEC	1	15:14	15:44
310	RT	Unit Testing	PG&E	N/A	7/13/2017	71	No	DEC	1	13:29	13:39
311	RT	Unit Testing	SCE	LA Basin	7/26/2017	19	No	INC	1	18:30	19:29
312	RT	Unit Testing	SCE	LA Basin	7/28/2017	19	No	INC	17	0:00	16:19
313	RT	Unit Testing	SDG&E	San Diego-IV	7/6/2017	96	No	INC	1	20:00	20:09
314	RT	Unit Testing	SDG&E	San Diego-IV	7/26/2017	18	No	INC	1	19:30	19:59
315	RT	Voltage Support	PG&E	Sierra	7/14/2017	20	No	INC	1	23:45	23:59
316	RT	Voltage Support	PG&E	Sierra	7/15/2017	20	Yes	INC	24	0:00	23:59
317	RT	Voltage Support	PG&E	Sierra	7/16/2017	20	Yes	INC	24	0:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
318	RT	Voltage Support	PG&E	Sierra	7/17/2017	20- 40	Yes	INC	4	0:00	3:29

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 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 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 certify that I have served the foregoing document upon the parties listed on the official service list in the captioned 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, 2017

/s/ Grace Clark
Grace Clark