



# Exceptional Dispatch Report

## Table 1: May 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 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 May 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.<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. 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.<sup>2</sup>

The following reason for exceptional dispatch instructions in May 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

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<sup>1</sup> 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).

<sup>2</sup> 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 May 2017, which are self explanatory.

The data 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 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 487 exceptional dispatches in May 2017, as compared to 238 exceptional dispatches in April 2017. Exceptional dispatches issued for the following reasons accounted for approximately 37 percent of the total exceptional dispatches during the reporting period: planned transmission outages, software limitations, and operating procedure number 7110 (along with 7120, 7320, 7410, 7430, and 7820). Many of the exceptional dispatches with the reason “Other Reliability Requirement” were due to Real Time Contingency Analysis.

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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.

**Table 1: Exceptional Dispatches in May 2017**

**California Independent System Operator Corporation  
Exceptional Dispatch Report  
July 17, 2017**

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

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	Conditions beyond the control of the CAISO	PG&E	Bay Area	5/9/2017	240	No	DEC	2	14:50	15:59
2	RT	Conditions beyond the control of the CAISO	PG&E	Bay Area	5/9/2017	240	No	INC	2	14:50	15:59
3	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/8/2017	55- 86	No	DEC	16	8:00	23:59
4	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/8/2017	15- 86	No	INC	16	8:00	23:59
5	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/10/2017	71- 183	No	DEC	3	19:30	21:59
6	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/11/2017	60	No	DEC	4	18:25	21:59
7	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/14/2017	60	No	DEC	4	20:20	23:29
8	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/15/2017	46	No	DEC	4	19:25	22:59
9	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/16/2017	46- 80	No	DEC	17	7:20	23:59
10	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/16/2017	46- 80	No	INC	17	7:20	23:59
11	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/17/2017	46- 65	No	DEC	11	0:00	10:59
12	RT	Conditions beyond the control of the CAISO	PG&E	N/A	5/17/2017	65	No	INC	4	7:15	10:59
13	RT	Contingency Dispatch	PG&E	Bay Area	5/3/2017	240	No	INC	1	19:27	19:59
14	RT	Fast Start Unit Management	PG&E	Bay Area	5/4/2017	0	No	INC	2	0:45	2:04
15	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/3/2017	29	No	DEC	8	10:10	17:14
16	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/3/2017	29- 58	No	INC	14	10:10	23:59
17	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/4/2017	29	No	DEC	24	0:00	23:59
18	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/4/2017	29	No	INC	24	0:00	23:59
19	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/5/2017	25- 29	No	DEC	24	0:00	23:59
20	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/5/2017	4- 29	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
21	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/6/2017	29- 31	No	DEC	24	0:00	23:59
22	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/6/2017	29- 31	No	INC	24	0:00	23:59
23	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/7/2017	31	No	INC	24	0:00	23:59
24	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/8/2017	13- 31	No	DEC	24	0:00	23:59
25	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/8/2017	17- 31	No	INC	24	0:00	23:59
26	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/9/2017	31	No	DEC	24	0:00	23:59
27	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/9/2017	31	No	INC	24	0:00	23:59
28	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/10/2017	18- 31	No	DEC	24	0:00	23:59
29	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/10/2017	13- 31	No	INC	24	0:00	23:59
30	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/11/2017	31	No	DEC	24	0:00	23:59
31	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/11/2017	31	No	INC	24	0:00	23:59
32	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/12/2017	14- 31	No	DEC	24	0:00	23:59
33	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/12/2017	17- 31	No	INC	24	0:00	23:59
34	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/13/2017	30- 31	No	DEC	24	0:00	23:59
35	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/13/2017	30- 31	No	INC	24	0:00	23:59
36	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/14/2017	16	No	DEC	24	0:00	23:59
37	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/14/2017	13- 30	No	INC	24	0:00	23:59
38	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/15/2017	13	No	DEC	24	0:00	23:59
39	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/15/2017	17- 30	No	INC	24	0:00	23:59
40	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/16/2017	13	No	DEC	24	0:00	23:59
41	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/16/2017	17- 30	No	INC	24	0:00	23:59
42	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/17/2017	16- 30	No	DEC	24	0:00	23:59
43	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/17/2017	13- 30	No	INC	24	0:00	23:59
44	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/18/2017	16- 30	No	DEC	24	0:00	23:59
45	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/18/2017	13- 30	No	INC	24	0:00	23:59
46	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/19/2017	30	No	DEC	24	0:00	23:59
47	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/19/2017	30	No	INC	24	0:00	23:59
48	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/20/2017	4- 30	No	DEC	20	4:45	23:59
49	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/20/2017	26- 30	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
50	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/21/2017	16- 30	No	DEC	24	0:00	23:59
51	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/21/2017	4- 30	No	INC	24	0:00	23:59
52	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/22/2017	16- 30	No	DEC	24	0:00	23:59
53	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/22/2017	13- 30	No	INC	24	0:00	23:59
54	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/23/2017	26- 30	No	DEC	24	0:00	23:59
55	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/23/2017	4- 30	No	INC	24	0:00	23:59
56	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/24/2017	13- 17	No	DEC	24	0:00	23:59
57	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/24/2017	13- 30	No	INC	24	0:00	23:59
58	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/25/2017	4- 30	No	DEC	24	0:00	23:59
59	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/25/2017	16- 30	No	INC	24	0:00	23:59
60	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/26/2017	26- 30	No	DEC	24	0:00	23:59
61	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/26/2017	4- 30	No	INC	24	0:00	23:59
62	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/27/2017	16- 30	No	DEC	24	0:00	23:59
63	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/27/2017	13- 30	No	INC	24	0:00	23:59
64	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/28/2017	30	No	DEC	24	0:00	23:59
65	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/28/2017	30	No	INC	24	0:00	23:59
66	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/29/2017	30	No	DEC	24	0:00	23:59
67	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/29/2017	30	No	INC	24	0:00	23:59
68	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/30/2017	30	No	DEC	24	0:00	23:59
69	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/30/2017	30	No	INC	24	0:00	23:59
70	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/31/2017	30	No	DEC	24	0:00	23:59
71	RT	Incomplete or Inaccurate Transmission	PG&E	Fresno	5/31/2017	30	No	INC	24	0:00	23:59
72	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/3/2017	16- 32	No	INC	14	10:10	23:59
73	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/4/2017	16	No	INC	24	0:00	23:59
74	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/5/2017	16	No	INC	24	0:00	23:59
75	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/6/2017	11	No	DEC	14	10:45	23:59
76	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/6/2017	11- 16	No	INC	24	0:00	23:59
77	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/7/2017	6- 11	No	DEC	24	0:00	23:59
78	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/7/2017	6- 11	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
79	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/8/2017	11	No	DEC	24	0:00	23:59
80	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/8/2017	11	No	INC	24	0:00	23:59
81	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/9/2017	11	No	DEC	24	0:00	23:59
82	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/9/2017	11	No	INC	24	0:00	23:59
83	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/10/2017	11	No	DEC	24	0:00	23:59
84	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/10/2017	11	No	INC	24	0:00	23:59
85	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/11/2017	11	No	DEC	24	0:00	23:59
86	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/11/2017	11	No	INC	24	0:00	23:59
87	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/12/2017	11	No	DEC	24	0:00	23:59
88	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/12/2017	11	No	INC	24	0:00	23:59
89	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/13/2017	10	No	DEC	24	0:00	23:59
90	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/13/2017	10	No	INC	24	0:00	23:59
91	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/14/2017	10	No	DEC	24	0:00	23:59
92	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/14/2017	10	No	INC	24	0:00	23:59
93	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/15/2017	10	No	DEC	24	0:00	23:59
94	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/15/2017	10	No	INC	24	0:00	23:59
95	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/16/2017	10	No	DEC	24	0:00	23:59
96	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/16/2017	10	No	INC	24	0:00	23:59
97	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/17/2017	10	No	DEC	24	0:00	23:59
98	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/17/2017	10	No	INC	24	0:00	23:59
99	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/18/2017	10	No	DEC	24	0:00	23:59
100	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/18/2017	10	No	INC	24	0:00	23:59
101	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/19/2017	10	No	DEC	24	0:00	23:59
102	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/19/2017	10	No	INC	24	0:00	23:59
103	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/20/2017	10	No	DEC	20	4:45	23:59
104	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/20/2017	10	No	INC	24	0:00	23:59
105	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/21/2017	10	No	DEC	24	0:00	23:59
106	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/21/2017	10	No	INC	24	0:00	23:59
107	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/22/2017	10	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
108	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/22/2017	10	No	INC	24	0:00	23:59
109	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/23/2017	10	No	DEC	24	0:00	23:59
110	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/23/2017	10	No	INC	24	0:00	23:59
111	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/24/2017	10	No	DEC	24	0:00	23:59
112	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/24/2017	10	No	INC	24	0:00	23:59
113	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/25/2017	10	No	DEC	24	0:00	23:59
114	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/25/2017	10	No	INC	24	0:00	23:59
115	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/26/2017	5- 10	No	DEC	24	0:00	23:59
116	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/26/2017	5- 10	No	INC	24	0:00	23:59
117	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/27/2017	10	No	DEC	24	0:00	23:59
118	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/27/2017	10	No	INC	24	0:00	23:59
119	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/28/2017	10	No	DEC	24	0:00	23:59
120	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/28/2017	10	No	INC	24	0:00	23:59
121	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/29/2017	10	No	DEC	24	0:00	23:59
122	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/29/2017	10	No	INC	24	0:00	23:59
123	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/30/2017	10	No	DEC	24	0:00	23:59
124	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/30/2017	10	No	INC	24	0:00	23:59
125	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/31/2017	10	No	DEC	24	0:00	23:59
126	RT	Incomplete or Inaccurate Transmission	PG&E	N/A	5/31/2017	10	No	INC	24	0:00	23:59
127	RT	Incomplete or Inaccurate Transmission	PG&E	NCNB	5/24/2017	59- 65	No	DEC	3	21:40	23:59
128	RT	Incomplete or Inaccurate Transmission	PG&E	NCNB	5/24/2017	167- 226	No	INC	2	21:40	22:59
129	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/4/2017	20	No	DEC	5	18:55	22:59
130	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/4/2017	20	No	INC	5	18:55	22:59
131	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/5/2017	154	No	DEC	8	12:20	19:59
132	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/8/2017	106	No	DEC	10	14:20	23:59
133	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/8/2017	45- 92	No	INC	9	15:45	23:59
134	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/9/2017	106- 116	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
135	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/9/2017	45- 90	No	INC	24	0:00	23:59
136	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/10/2017	50- 55	No	DEC	12	0:05	11:59
137	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/24/2017	135- 290	No	DEC	10	9:48	19:29
138	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/24/2017	20	No	INC	10	10:26	19:59
139	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/25/2017	160	No	DEC	3	1:00	3:29
140	RT	Incomplete or Inaccurate Transmission	PG&E	Sierra	5/25/2017	160	No	INC	3	1:00	3:29
141	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/2/2017	55- 65	No	DEC	14	3:45	16:59
142	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/2/2017	45- 65	No	INC	14	3:45	16:59
143	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/3/2017	70	No	DEC	5	8:02	12:59
144	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/3/2017	70	No	INC	5	8:02	12:59
145	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/5/2017	20- 75	No	DEC	9	11:19	19:59
146	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/5/2017	20- 75	No	INC	9	11:19	19:59
147	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/6/2017	20- 35	No	DEC	13	7:15	19:59
148	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/6/2017	20- 35	No	INC	13	7:15	19:59
149	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/8/2017	25- 60	No	DEC	22	2:30	23:59
150	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/8/2017	25- 45	No	INC	12	2:30	14:29
151	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/9/2017	56- 80	No	DEC	24	0:00	23:59
152	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/9/2017	56- 85	No	INC	23	0:00	22:29
153	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/10/2017	40- 60	No	DEC	23	1:20	23:59
154	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/10/2017	40- 60	No	INC	21	0:00	20:44
155	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/11/2017	56- 70	No	DEC	24	0:00	23:59
156	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/11/2017	56- 70	No	INC	24	0:00	23:59
157	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/12/2017	70	No	DEC	2	0:00	1:59
158	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/13/2017	75- 80	No	DEC	9	14:30	22:59
159	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/13/2017	75	No	INC	8	14:30	21:59
160	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/15/2017	40- 75	No	DEC	16	4:55	19:59
161	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/15/2017	40	No	INC	10	10:12	19:59
162	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/16/2017	20	No	INC	1	3:42	3:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
163	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/17/2017	45- 96	No	DEC	24	0:00	23:59
164	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/17/2017	45- 156	No	INC	24	0:40	23:59
165	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/18/2017	50- 70	No	DEC	20	0:35	19:59
166	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/18/2017	60- 70	No	INC	16	0:35	15:59
167	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/19/2017	47- 70	No	DEC	1	5:45	6:29
168	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/22/2017	65	No	DEC	5	4:55	8:59
169	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/22/2017	65	No	INC	5	4:55	8:59
170	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/25/2017	50- 80	No	DEC	19	1:30	19:59
171	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/25/2017	50- 80	No	INC	19	1:30	19:59
172	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/26/2017	50- 110	No	DEC	13	7:15	19:59
173	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/26/2017	40- 120	No	INC	10	8:40	17:44
174	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/28/2017	70- 140	No	DEC	6	18:13	23:59
175	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/28/2017	96	No	INC	4	5:50	8:59
176	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/29/2017	70- 130	No	DEC	24	0:00	23:59
177	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/29/2017	100- 130	No	INC	21	0:00	20:59
178	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/30/2017	50- 130	No	DEC	23	1:25	23:59
179	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/30/2017	50- 75	No	INC	24	0:00	23:59
180	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/31/2017	70	No	DEC	23	1:25	23:59
181	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/31/2017	60- 70	No	INC	24	0:00	23:59
182	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	6/1/2017	70	No	INC	8	0:00	7:44
183	RT	Incomplete or Inaccurate Transmission	SDG&E	San Diego-IV	5/30/2017	15	No	INC	3	15:40	17:59
184	RT	Load Forecast Uncertainty	Intertie	N/A	5/26/2017	4	No	INC	1	15:00	15:59
185	RT	Load Forecast Uncertainty	N/A	N/A	5/3/2017	157	No	DEC	1	19:05	19:59
186	RT	Load Forecast Uncertainty	N/A	N/A	5/3/2017	211- 488	No	INC	4	19:05	22:59
187	RT	Load Forecast Uncertainty	PG&E	Bay Area	5/3/2017	240	No	INC	1	19:05	19:52
188	RT	Load Forecast Uncertainty	PG&E	Bay Area	5/8/2017	0	No	INC	2	7:00	8:29
189	RT	Load Forecast Uncertainty	PG&E	Bay Area	5/22/2017	24	No	DEC	6	14:55	19:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
190	RT	Load Forecast Uncertainty	PG&E	Bay Area	5/24/2017	141	No	INC	11	13:00	23:59
191	RT	Load Forecast Uncertainty	PG&E	Fresno	5/3/2017	14	No	INC	1	19:05	19:52
192	RT	Load Forecast Uncertainty	PG&E	Fresno	5/7/2017	0	No	INC	1	13:40	14:39
193	RT	Load Forecast Uncertainty	PG&E	N/A	5/22/2017	49	No	DEC	1	15:05	15:59
194	RT	Load Forecast Uncertainty	PG&E	N/A	5/23/2017	136	No	INC	11	11:00	21:59
195	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	5/22/2017	50- 778	No	INC	8	13:00	20:59
196	RT	Load Forecast Uncertainty	SCE	LA Basin	5/1/2017	20	No	INC	8	16:00	23:59
197	RT	Load Forecast Uncertainty	SCE	LA Basin	5/2/2017	20	No	INC	24	0:00	23:59
198	RT	Load Forecast Uncertainty	SCE	LA Basin	5/3/2017	16	No	INC	1	19:05	19:52
199	RT	Load Forecast Uncertainty	SCE	LA Basin	5/4/2017	280	No	DEC	7	14:00	20:59
200	RT	Load Forecast Uncertainty	SCE	LA Basin	5/4/2017	20- 110	No	INC	10	14:00	23:59
201	RT	Load Forecast Uncertainty	SCE	LA Basin	5/5/2017	10- 20	No	DEC	24	0:00	23:59
202	RT	Load Forecast Uncertainty	SCE	LA Basin	5/5/2017	20- 70	No	INC	24	0:00	23:59
203	RT	Load Forecast Uncertainty	SCE	LA Basin	5/6/2017	25	No	INC	18	6:00	23:59
204	RT	Load Forecast Uncertainty	SCE	LA Basin	5/7/2017	25- 142	No	INC	24	0:00	23:59
205	RT	Load Forecast Uncertainty	SCE	LA Basin	5/8/2017	25- 142	No	INC	24	0:00	23:59
206	RT	Load Forecast Uncertainty	SCE	LA Basin	5/19/2017	40	No	INC	15	9:00	23:59
207	RT	Load Forecast Uncertainty	SCE	LA Basin	5/22/2017	20- 30	Yes	INC	15	9:00	23:59
208	RT	Load Forecast Uncertainty	SCE	LA Basin	5/23/2017	20	No	DEC	3	21:00	23:59
209	RT	Load Forecast Uncertainty	SCE	LA Basin	5/23/2017	90- 320	Yes	INC	24	0:00	23:59
210	RT	Load Forecast Uncertainty	SCE	LA Basin	5/24/2017	20	No	INC	24	0:00	23:59
211	RT	Load Forecast Uncertainty	SCE	LA Basin	5/30/2017	20	No	INC	12	12:00	23:59
212	RT	Load Forecast Uncertainty	SCE	LA Basin	5/31/2017	20	No	INC	24	0:00	23:59
213	RT	Load Forecast Uncertainty	SCE	N/A	5/19/2017	172	No	INC	17	7:00	23:59
214	RT	Load Forecast Uncertainty	SCE	N/A	5/22/2017	410	No	DEC	4	18:00	21:59
215	RT	Load Forecast Uncertainty	SCE	N/A	5/22/2017	410	No	INC	4	18:00	21:59
216	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/3/2017	55	No	INC	1	19:05	19:52
217	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/6/2017	20	No	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
218	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/7/2017	20- 136	No	INC	24	0:00	23:59
219	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/8/2017	20- 136	No	INC	24	0:00	23:59
220	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/12/2017	20- 301	No	INC	17	5:00	21:59
221	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/13/2017	20	No	INC	11	7:00	17:59
222	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/15/2017	20	No	INC	6	18:00	23:59
223	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/16/2017	20	No	INC	17	7:00	23:59
224	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/22/2017	68	No	DEC	6	15:30	20:59
225	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/22/2017	20- 238	No	INC	12	12:00	23:59
226	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/23/2017	60- 235	No	INC	24	0:00	23:59
227	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/24/2017	20	No	INC	24	0:00	23:59
228	RT	Load Forecast Uncertainty	SDG&E	San Diego-IV	5/25/2017	20	No	INC	24	0:00	23:59
229	RT	Load Pull	PG&E	Bay Area	5/9/2017	330	No	DEC	1	18:30	19:29
230	RT	Load Pull	PG&E	Bay Area	5/21/2017	120	No	DEC	6	16:00	21:59
231	RT	Load Pull	PG&E	Fresno	5/21/2017	600	No	INC	1	17:41	17:59
232	RT	Load Pull	SCE	LA Basin	5/4/2017	65	No	INC	7	14:10	20:59
233	RT	Load Pull	SCE	LA Basin	5/6/2017	71	No	INC	14	8:50	21:59
234	RT	Load Pull	SCE	LA Basin	5/8/2017	71	No	INC	4	18:00	21:59
235	RT	Load Pull	SCE	LA Basin	5/19/2017	130	No	INC	9	13:45	21:59
236	RT	Load Pull	SCE	LA Basin	5/22/2017	240	No	INC	9	12:20	20:59
237	RT	Load Pull	SDG&E	San Diego-IV	5/6/2017	68	No	INC	14	8:50	21:59
238	RT	Load Pull	SDG&E	San Diego-IV	5/8/2017	68	No	INC	4	18:00	21:59
239	RT	Load Pull	SDG&E	San Diego-IV	5/12/2017	68	No	INC	3	18:30	20:59
240	RT	Load Pull	SDG&E	San Diego-IV	5/13/2017	20- 136	No	INC	15	7:00	21:59
241	RT	Market Disruption	PG&E	Fresno	5/7/2017	83- 166	No	DEC	5	17:30	21:59
242	RT	Market Disruption	PG&E	Fresno	5/7/2017	83- 166	No	INC	5	17:30	21:59
243	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/1/2017	16- 32	No	DEC	17	7:10	23:59
244	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/1/2017	16- 32	No	INC	17	7:10	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
245	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/2/2017	16	No	DEC	6	0:00	5:59
246	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/2/2017	15- 48	No	INC	24	0:00	23:59
247	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/3/2017	30- 87	No	DEC	24	0:00	23:59
248	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/3/2017	33- 90	No	INC	24	0:00	23:59
249	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/4/2017	30- 83	No	DEC	20	0:00	19:59
250	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/4/2017	40- 208	No	INC	18	0:00	17:29
251	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/5/2017	15- 30	No	DEC	14	6:10	19:59
252	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/5/2017	15- 35	No	INC	18	6:10	23:59
253	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/6/2017	15- 30	No	DEC	18	6:53	23:59
254	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/6/2017	15- 35	No	INC	24	0:00	23:59
255	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/7/2017	30	No	DEC	2	21:40	22:59
256	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/7/2017	12- 30	No	INC	24	0:00	23:59
257	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/8/2017	30- 42	No	DEC	18	6:20	23:59
258	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/8/2017	10- 105	No	INC	24	0:00	23:59
259	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/9/2017	13- 34	No	DEC	22	2:10	23:44
260	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/9/2017	10- 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
261	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/10/2017	15- 68	No	DEC	11	13:05	23:29
262	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/10/2017	15- 68	No	INC	18	6:35	23:59
263	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/11/2017	10- 35	No	DEC	18	5:30	23:29
264	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/11/2017	10- 35	No	INC	24	0:00	23:58
265	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/12/2017	28- 34	No	DEC	17	6:17	23:14
266	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/12/2017	21- 56	No	INC	19	5:30	23:59
267	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/13/2017	16	No	DEC	2	18:00	19:59
268	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/13/2017	10- 50	No	INC	24	0:00	23:59
269	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/14/2017	40	No	DEC	13	10:45	22:59
270	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/14/2017	13- 75	No	INC	24	0:00	23:59
271	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/15/2017	16- 40	No	DEC	18	6:27	23:59
272	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/15/2017	16- 40	No	INC	24	0:00	23:59
273	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/16/2017	12- 60	No	DEC	18	5:00	22:59
274	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/16/2017	12- 176	No	INC	23	0:00	22:59
275	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/17/2017	10- 48	No	INC	19	5:50	23:59
276	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/18/2017	21- 30	No	DEC	8	15:35	23:14

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
277	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/18/2017	10- 63	No	INC	24	0:15	23:59
278	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/19/2017	16- 50	No	DEC	17	6:15	22:29
279	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/19/2017	10- 150	No	INC	24	0:00	23:59
280	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/20/2017	20- 144	No	INC	24	0:00	23:59
281	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/21/2017	16- 64	No	DEC	13	10:05	22:29
282	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/21/2017	16- 64	No	INC	24	0:00	23:59
283	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/22/2017	24- 45	No	DEC	17	7:15	23:59
284	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/22/2017	14- 65	No	INC	24	0:00	23:59
285	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/23/2017	14	No	INC	1	0:00	0:59
286	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/25/2017	47	No	DEC	3	21:15	23:59
287	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/25/2017	30- 60	No	INC	3	21:15	23:59
288	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/26/2017	21- 33	No	DEC	15	5:55	19:59
289	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/26/2017	15- 66	No	INC	24	0:00	23:59
290	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/27/2017	16- 21	No	DEC	15	9:00	23:59
291	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/27/2017	15- 21	No	INC	24	0:00	23:59
292	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/28/2017	22	No	DEC	2	17:30	19:14



Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
293	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/28/2017	15- 28	No	INC	24	0:00	23:59
294	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/29/2017	48- 60	No	DEC	7	17:35	23:59
295	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/29/2017	24- 30	No	INC	7	17:35	23:59
296	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/30/2017	13	No	DEC	8	10:15	17:59
297	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/30/2017	12- 30	No	INC	24	0:00	23:59
298	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/31/2017	30	No	DEC	3	20:45	23:29
299	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	5/31/2017	15- 60	No	INC	24	0:00	23:59
300	RT	Operating Procedure Number and Constraint (7110)	PG&E	Humboldt	6/1/2017	15	No	INC	8	0:00	7:59
301	RT	Operating Procedure Number and Constraint (7120)	PG&E	NCNB	5/2/2017	60- 175	No	DEC	6	18:55	23:59
302	RT	Operating Procedure Number and Constraint (7120)	PG&E	NCNB	5/3/2017	50- 195	No	DEC	24	0:00	23:59
303	RT	Operating Procedure Number and Constraint (7120)	PG&E	NCNB	5/4/2017	55- 190	No	DEC	24	0:00	23:59
304	RT	Operating Procedure Number and Constraint (7120)	PG&E	NCNB	5/5/2017	55- 62	No	DEC	1	0:00	0:59
305	RT	Operating Procedure Number and Constraint (7320)	PG&E	Bay Area	5/24/2017	120- 190	No	INC	12	9:23	20:59
306	RT	Operating Procedure Number and Constraint (7410)	PG&E	Stockton	5/19/2017	261	No	DEC	1	23:40	23:59
307	RT	Operating Procedure Number and Constraint (7410)	PG&E	Stockton	5/20/2017	261	No	INC	1	0:00	0:29
308	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	5/4/2017	140	No	INC	1	23:05	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
309	RT	Operating Procedure Number and Constraint (7430)	PG&E	Fresno	5/5/2017	83- 280	Yes	INC	6	0:00	5:59
310	RT	Operating Procedure Number and Constraint (7820)	SDG&E	San Diego-IV	5/31/2017	50	No	INC	3	7:10	9:59
311	RT	Other Reliability Requirement	N/A	N/A	5/2/2017	7	No	DEC	1	10:30	11:29
312	RT	Other Reliability Requirement	N/A	N/A	5/2/2017	7- 16	No	INC	8	10:30	17:59
313	RT	Other Reliability Requirement	PG&E	Fresno	5/2/2017	29- 30	No	DEC	8	10:30	17:59
314	RT	Other Reliability Requirement	PG&E	Fresno	5/2/2017	29	No	INC	8	10:30	17:59
315	RT	Other Reliability Requirement	PG&E	Fresno	5/3/2017	75	No	DEC	1	19:12	19:29
316	RT	Other Reliability Requirement	PG&E	N/A	5/1/2017	100- 160	No	DEC	9	12:15	20:59
317	RT	Other Reliability Requirement	PG&E	N/A	5/8/2017	110- 190	No	DEC	14	7:49	21:09
318	RT	Other Reliability Requirement	PG&E	N/A	5/11/2017	100- 240	No	DEC	15	7:55	22:07
319	RT	Other Reliability Requirement	PG&E	N/A	5/12/2017	150	No	DEC	13	9:55	22:05
320	RT	Other Reliability Requirement	PG&E	Stockton	5/3/2017	25- 120	No	DEC	20	3:03	22:41
321	RT	Other Reliability Requirement	PG&E	Stockton	5/7/2017	33	No	DEC	5	19:15	23:58
322	RT	Other Reliability Requirement	PG&E	Stockton	5/7/2017	33	No	INC	5	19:15	23:58
323	RT	Other Reliability Requirement	PG&E	Stockton	5/8/2017	33- 50	No	DEC	22	0:00	21:09
324	RT	Other Reliability Requirement	PG&E	Stockton	5/8/2017	50	No	INC	13	1:20	13:58
325	RT	Other Reliability Requirement	PG&E	Stockton	5/9/2017	20- 40	No	DEC	18	0:00	17:24
326	RT	Other Reliability Requirement	PG&E	Stockton	5/10/2017	40- 50	No	DEC	24	0:00	23:58
327	RT	Other Reliability Requirement	PG&E	Stockton	5/11/2017	25- 40	No	DEC	24	0:12	23:58
328	RT	Other Reliability Requirement	PG&E	Stockton	5/11/2017	25- 30	No	INC	24	0:35	23:58
329	RT	Other Reliability Requirement	PG&E	Stockton	5/12/2017	10	No	DEC	22	2:55	23:58
330	RT	Other Reliability Requirement	PG&E	Stockton	5/12/2017	10- 30	No	INC	24	0:00	23:58
331	RT	Other Reliability Requirement	PG&E	Stockton	5/13/2017	10- 30	No	DEC	24	0:00	23:00
332	RT	Other Reliability Requirement	PG&E	Stockton	5/13/2017	30- 50	No	INC	23	1:00	23:58
333	RT	Other Reliability Requirement	PG&E	Stockton	5/14/2017	15- 50	No	DEC	24	0:00	23:04

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
334	RT	Other Reliability Requirement	PG&E	Stockton	5/14/2017	30- 50	No	INC	24	0:00	23:59
335	RT	Other Reliability Requirement	PG&E	Stockton	5/15/2017	30	No	DEC	2	0:00	1:59
336	RT	Other Reliability Requirement	PG&E	Stockton	5/15/2017	30- 50	No	INC	7	0:00	6:23
337	RT	Other Reliability Requirement	PG&E	Stockton	5/16/2017	45- 55	No	DEC	4	16:25	19:59
338	RT	Other Reliability Requirement	PG&E	Stockton	5/16/2017	45- 55	No	INC	4	16:25	19:59
339	RT	Other Reliability Requirement	PG&E	Stockton	5/18/2017	25	No	DEC	4	16:55	19:59
340	RT	Other Reliability Requirement	PG&E	Stockton	5/20/2017	30- 50	No	DEC	6	11:20	20:16
341	RT	Other Reliability Requirement	PG&E	Stockton	5/20/2017	30	No	INC	6	11:20	16:24
342	RT	Other Reliability Requirement	PG&E	Stockton	5/25/2017	50- 55	No	DEC	8	16:15	23:59
343	RT	Other Reliability Requirement	PG&E	Stockton	5/26/2017	50- 55	No	DEC	14	0:00	13:10
344	RT	Other Reliability Requirement	PG&E	Stockton	5/26/2017	50- 55	No	INC	14	0:00	13:10
345	RT	Other Reliability Requirement	SCE	LA Basin	5/23/2017	65- 130	No	DEC	7	14:00	20:59
346	RT	Other Reliability Requirement	SCE	LA Basin	5/23/2017	130- 512	No	INC	7	14:00	20:59
347	RT	Other Reliability Requirement	SCE	N/A	5/22/2017	400	No	DEC	1	17:30	17:59
348	RT	Other Reliability Requirement	SCE	N/A	5/22/2017	410	No	INC	4	17:35	20:59
349	RT	Other Reliability Requirement	SDG&E	San Diego-IV	5/23/2017	131	No	INC	7	14:30	20:59
350	RT	Planned Transmission Outage and Constraint	Intertie	N/A	5/2/2017	250	No	DEC	2	18:30	19:59
351	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	5/8/2017	555	No	INC	6	18:55	23:59
352	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	5/9/2017	331- 500	No	DEC	10	6:20	15:59
353	RT	Planned Transmission Outage and Constraint	PG&E	Bay Area	5/9/2017	331- 735	No	INC	16	0:00	15:59
354	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	5/1/2017	8	No	DEC	9	10:10	18:44
355	RT	Planned Transmission Outage and Constraint	PG&E	Fresno	5/1/2017	8	No	INC	9	10:10	18:44

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
356	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/2/2017	28- 105	No	DEC	15	9:45	23:59
357	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/2/2017	30- 68	No	INC	15	9:45	23:59
358	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/3/2017	40	No	INC	13	0:00	12:29
359	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/4/2017	30- 54	No	DEC	3	21:45	23:59
360	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/4/2017	30- 54	No	INC	3	21:45	23:59
361	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/5/2017	30	No	INC	1	0:00	0:59
362	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/7/2017	27	No	DEC	13	7:50	19:59
363	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/7/2017	27- 32	No	INC	13	7:50	19:59
364	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/16/2017	20- 40	No	INC	2	6:20	8:14
365	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/17/2017	36	No	DEC	13	7:25	19:59
366	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/17/2017	36- 48	No	INC	13	7:25	19:59
367	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/23/2017	30- 102	No	DEC	19	5:25	23:59
368	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/23/2017	45- 161	No	INC	19	5:25	23:59
369	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/24/2017	22- 57	No	DEC	21	3:45	23:59
370	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/24/2017	33- 103	No	INC	24	0:00	23:59
371	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/25/2017	44	No	DEC	5	15:05	19:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
372	RT	Planned Transmission Outage and Constraint	PG&E	Humboldt	5/25/2017	44- 77	No	INC	20	0:00	19:59
373	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/7/2017	49- 178	No	DEC	13	7:35	19:59
374	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/7/2017	66	No	INC	13	7:35	19:59
375	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/9/2017	500	No	DEC	5	19:45	23:59
376	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/9/2017	500	No	INC	5	19:45	23:59
377	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/10/2017	500	No	DEC	6	18:10	23:59
378	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/10/2017	500	No	INC	6	18:10	23:59
379	RT	Planned Transmission Outage and Constraint	PG&E	N/A	5/11/2017	500	No	INC	6	0:00	5:44
380	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/1/2017	28- 140	No	DEC	14	7:12	20:59
381	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/2/2017	125- 150	No	DEC	13	4:20	16:59
382	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/9/2017	130- 163	No	DEC	20	0:40	19:59
383	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/10/2017	120- 212	No	DEC	16	8:50	23:59
384	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/11/2017	40- 231	No	DEC	24	0:00	23:59
385	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/12/2017	150	No	DEC	12	10:15	21:59
386	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/13/2017	205- 225	No	DEC	24	0:00	23:59
387	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/13/2017	45- 65	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
388	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/14/2017	205	No	DEC	24	0:00	23:59
389	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/14/2017	65	No	INC	24	0:00	23:59
390	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/15/2017	205-375	No	DEC	24	0:00	23:59
391	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/15/2017	45- 65	No	INC	24	0:00	23:59
392	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/16/2017	115-135	No	DEC	24	0:00	23:59
393	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/16/2017	135-155	No	INC	24	0:00	23:59
394	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/17/2017	20	No	DEC	11	0:00	10:29
395	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/17/2017	250	No	INC	19	0:00	18:59
396	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/24/2017	42	No	DEC	8	12:45	19:59
397	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/24/2017	3- 42	No	INC	10	10:45	19:59
398	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/25/2017	160	No	DEC	8	12:20	20:14
399	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/12/2017	60	No	DEC	20	2:30	21:59
400	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/12/2017	60	No	INC	20	2:30	21:59
401	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/13/2017	60- 80	No	DEC	18	5:05	22:24
402	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/13/2017	75- 171	No	INC	16	6:00	21:49
403	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/14/2017	60- 75	No	DEC	19	5:00	23:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
404	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/14/2017	60- 75	No	INC	19	5:00	23:59
405	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/16/2017	50- 80	No	DEC	15	5:00	19:59
406	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/16/2017	60- 250	No	INC	17	6:50	22:59
407	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/17/2017	135- 160	No	DEC	12	9:20	21:14
408	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/17/2017	135- 320	No	INC	13	8:45	21:14
409	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/18/2017	96	No	INC	1	0:55	1:44
410	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/19/2017	62- 140	No	DEC	18	6:10	23:59
411	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/19/2017	70	No	INC	12	8:15	19:59
412	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/20/2017	70- 75	No	DEC	20	4:45	23:59
413	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/20/2017	60- 75	No	INC	24	0:00	23:59
414	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/23/2017	100	No	DEC	11	10:45	20:59
415	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/23/2017	100- 155	No	INC	11	10:45	20:59
416	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/26/2017	96- 145	No	INC	6	18:43	23:59
417	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/27/2017	126- 201	No	INC	24	0:00	23:59
418	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/28/2017	50- 100	No	DEC	12	6:45	17:59
419	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/28/2017	50- 100	No	INC	12	6:45	17:59

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
420	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/29/2017	20- 30	No	DEC	22	2:43	23:58
421	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/29/2017	20- 30	No	INC	22	2:43	23:58
422	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/30/2017	17- 30	No	DEC	24	0:00	23:20
423	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/30/2017	17- 30	No	INC	24	0:00	23:58
424	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/31/2017	20	No	DEC	24	0:00	23:58
425	RT	Planned Transmission Outage and Constraint	PG&E	Stockton	5/31/2017	20	No	INC	24	0:00	23:58
426	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	5/13/2017	656-725	No	DEC	5	19:06	23:59
427	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	5/14/2017	525-1100	No	DEC	6	18:40	23:59
428	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	5/14/2017	690	No	INC	4	0:00	3:59
429	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	5/15/2017	590	No	DEC	3	5:20	7:59
430	RT	Planned Transmission Outage and Constraint	SCE	Big Creek-Ventura	5/15/2017	575-625	No	INC	2	0:00	1:59
431	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/12/2017	6	No	DEC	10	8:20	17:59
432	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/12/2017	47- 53	No	INC	10	8:20	17:59
433	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/13/2017	48- 51	No	INC	10	8:05	17:59
434	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/14/2017	35- 60	No	INC	8	10:50	17:59
435	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/16/2017	63	No	INC	10	10:30	19:59



Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
436	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/23/2017	12- 35	No	INC	4	15:45	18:59
437	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/24/2017	18	No	DEC	8	11:15	19:14
438	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/24/2017	44	No	INC	15	9:54	23:59
439	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/25/2017	200	No	INC	24	0:00	23:59
440	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/26/2017	200	No	INC	22	0:00	21:59
441	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/31/2017	37	No	DEC	9	12:18	20:59
442	RT	Planned Transmission Outage and Constraint	SDG&E	San Diego-IV	5/31/2017	37- 87	No	INC	10	11:23	20:59
443	RT	Software Limitation	PG&E	Bay Area	5/3/2017	0	No	DEC	3	21:30	23:59
444	RT	Software Limitation	PG&E	Bay Area	5/3/2017	0	No	INC	3	21:30	23:59
445	RT	Software Limitation	PG&E	Bay Area	5/5/2017	0	No	INC	2	0:15	1:19
446	RT	Software Limitation	PG&E	Bay Area	5/10/2017	0	No	DEC	4	19:00	22:59
447	RT	Software Limitation	PG&E	Bay Area	5/10/2017	0	No	INC	4	19:00	22:59
448	RT	Software Limitation	PG&E	Bay Area	5/21/2017	330	No	DEC	1	17:00	17:59
449	RT	Software Limitation	PG&E	Bay Area	5/21/2017	0	No	INC	1	11:15	12:14
450	RT	Software Limitation	PG&E	Fresno	5/4/2017	0	No	INC	6	18:20	23:59
451	RT	Software Limitation	PG&E	Fresno	5/7/2017	-640	No	DEC	1	15:45	16:44
452	RT	Software Limitation	PG&E	Fresno	5/18/2017	83	No	INC	1	16:00	16:59
453	RT	Software Limitation	PG&E	Fresno	5/23/2017	0	No	INC	1	22:10	23:09
454	RT	Software Limitation	PG&E	Humboldt	5/4/2017	32	No	INC	1	1:45	2:14
455	RT	Software Limitation	PG&E	Humboldt	5/16/2017	16	No	INC	2	22:40	23:59
456	RT	Software Limitation	PG&E	N/A	5/14/2017	175	No	DEC	1	19:45	20:29
457	RT	Software Limitation	PG&E	N/A	5/14/2017	0	No	INC	2	1:20	2:49
458	RT	Software Limitation	PG&E	N/A	5/18/2017	0	No	INC	2	0:20	1:54

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
459	RT	Software Limitation	PG&E	N/A	5/21/2017	0	No	INC	1	11:15	12:14
460	RT	Software Limitation	PG&E	N/A	5/22/2017	49	No	DEC	4	16:15	19:59
461	RT	Software Limitation	SCE	Big Creek-Ventura	5/7/2017	555	No	DEC	7	13:55	19:59
462	RT	Software Limitation	SCE	Big Creek-Ventura	5/7/2017	555	No	INC	7	13:55	19:59
463	RT	Software Limitation	SCE	LA Basin	5/6/2017	0	No	INC	1	0:15	1:14
464	RT	Software Limitation	SCE	LA Basin	5/12/2017	0	No	INC	1	11:10	11:49
465	RT	Software Limitation	SCE	LA Basin	5/18/2017	0	No	DEC	1	21:00	21:54
466	RT	Unit Testing	PG&E	Bay Area	5/16/2017	225	No	INC	5	19:05	23:59
467	RT	Unit Testing	PG&E	N/A	5/2/2017	471	No	DEC	1	13:25	13:54
468	RT	Unit Testing	SCE	Big Creek-Ventura	5/21/2017	50- 705	No	INC	11	13:00	23:59
469	RT	Unit Testing	SCE	Big Creek-Ventura	5/22/2017	50- 1500	No	INC	24	0:00	23:59
470	RT	Unit Testing	SCE	Big Creek-Ventura	5/23/2017	50- 1526	No	INC	23	0:00	22:14
471	RT	Unit Testing	SCE	Big Creek-Ventura	5/24/2017	100	No	INC	9	0:00	8:59
472	RT	Unit Testing	SCE	LA Basin	5/5/2017	139	No	DEC	1	19:15	19:59
473	RT	Unit Testing	SCE	LA Basin	5/5/2017	254	No	INC	1	22:01	22:59
474	RT	Unit Testing	SCE	LA Basin	5/10/2017	26- 34	No	INC	2	21:23	22:44
475	RT	Unit Testing	SCE	LA Basin	5/12/2017	96	No	INC	2	10:01	11:04
476	RT	Unit Testing	SCE	LA Basin	5/16/2017	180- 200	No	DEC	4	17:00	20:44
477	RT	Unit Testing	SCE	LA Basin	5/16/2017	180- 990	No	INC	7	17:00	23:59
478	RT	Unit Testing	SCE	LA Basin	5/17/2017	990	No	INC	1	0:00	0:59
479	RT	Unit Testing	SCE	LA Basin	5/20/2017	70- 497	No	INC	14	10:00	23:59
480	RT	Unit Testing	SCE	LA Basin	5/21/2017	70- 240	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
481	RT	Unit Testing	SCE	LA Basin	5/22/2017	70- 665	No	INC	24	0:00	23:59
482	RT	Unit Testing	SCE	LA Basin	5/23/2017	130-373	No	INC	24	0:00	23:59
483	RT	Unit Testing	SDG&E	San Diego-IV	5/2/2017	47	No	INC	1	20:06	20:59
484	RT	Unit Testing	SDG&E	San Diego-IV	5/22/2017	20- 104	No	INC	9	15:00	23:59
485	RT	Unplanned Outage	PG&E	Bay Area	5/19/2017	54	No	INC	5	17:30	21:59
486	RT	Unplanned Outage	SCE	LA Basin	5/19/2017	130	No	INC	7	15:00	21:59
487	RT	Voltage Support	PG&E	Fresno	5/7/2017	83	No	INC	1	7:00	7:24

## 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