

July 17, 2017

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

> California Independent System Operator Corporation Docket Nos. ER08-1178- and EL08-88-May 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 abovereferenced 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 May 2017.

Respectfully submitted,

By: /s/ Sidney L. Mannheim

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Exceptional Dispatch Report

Table 1: May 2017

CAISO Market Quality and Renewable Integration

July 17, 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 May 2017.

The Nature of Exceptional Dispatch

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

The CAISO issues exceptional dispatch instructions to maintain the reliability of the grid when the market software cannot do so. Whenever the CAISO issues an exceptional dispatch instruction, the operator logs the dispatch and the associated reason.

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

The following reason for exceptional dispatch instructions in 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

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 May 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 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.

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 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

	Mar						Со				
Num	ket Typ		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	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

	Mar						Со				
	ket						mm	13.10			
Num ber	Typ e	Reason	Locatio	Local Reliability Area	Trade Date	MW	itm ent	INC_ DEC	Hou rs	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

	Mar						Со				
Num	ket Typ		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	l iyp	Reason	n	Area	Trade Date	MW	ent	DEC_	rs	Time	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

	Mar						Со				
Num	ket Typ		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	e iyp	Reason	n	Area	Trade Date	MW	ent	DEC_	rs	Time	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

	Mar						Со				
Num	ket		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	Typ e	Reason	n	Area	Trade Date	MW	ent	DEC_	rs	Time	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
						167-			_		
128	RT	Incomplete or Inaccurate Transmission	PG&E	NCNB	5/24/2017	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

	Mar						Со				
	ket						mm				
Num	Тур	_	Locatio	Local Reliability			itm	INC_	Hou	Begin	End
ber	е	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	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

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	ket						mm				
Num	Тур	Reason	Locatio	Local Reliability Area	Trada Data	MW	itm	INC_ DEC	Hou	Begin	End Time
ber 163	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	Trade Date 5/17/2017	45- 96	ent No	DEC	rs 24	Time 0:00	23:59
164	RT		PG&E	Stockton	5/17/2017	45- 96 45- 156	No	INC	24	0:40	
1		Incomplete or Inaccurate Transmission						DEC			23:59
165	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/18/2017	50- 70	No		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
						100-					
177	RT	Incomplete or Inaccurate Transmission	PG&E	Stockton	5/29/2017	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
		,				211-					
186	RT	Load Forecast Uncertainty	N/A	N/A	5/3/2017	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

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	ket						mm				
Num	Тур	_	Locatio	Local Reliability			itm	INC_	Hou	Begin	End
ber	е	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	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
40-			005	Big Creek-	= (0.0 (0.0) =					40.00	
195	RT	Load Forecast Uncertainty	SCE	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

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Num	Тур		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	е	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	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
044	D.T.	Operating Procedure Number and Constraint	DONE	11	F/4/0047	4000	N.I	INIO	47	7.40	00.50
244	RT	(7110)	PG&E	Humboldt	5/1/2017	16- 32	No	INC	17	7:10	23:59

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Num	Тур		Locatio	Local Reliability			itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Operating Procedure Number and Constraint									
245	RT	(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
		Operating Procedure Number and Constraint			0/2/2011					0.00	
247	RT	(7110)	PG&E	Humboldt	5/3/2017	30- 87	No	DEC	24	0:00	23:59
		Operating Procedure Number and Constraint									
248	RT	(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
		Operating Procedure Number and Constraint									
250	RT	(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
201	- 1 1	Operating Procedure Number and Constraint	1 001	Hambolat	0/0/2011	10 00	110	DEG		0.10	10.00
252	RT	(7110)	PG&E	Humboldt	5/5/2017	15- 35	No	INC	18	6:10	23:59
		Operating Procedure Number and Constraint									
253	RT	(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
		Operating Procedure Number and Constraint			5, 5, 2 5 1 1					0.00	
255	RT	(7110)	PG&E	Humboldt	5/7/2017	30	No	DEC	2	21:40	22:59
050	БТ	Operating Procedure Number and Constraint	DONE	11 1 - 1 16	5/7/0047	4000	NI.	INIO	0.4	0.00	00.50
256	RT	(7110) Operating Procedure Number and Constraint	PG&E	Humboldt	5/7/2017	12- 30	No	INC	24	0:00	23:59
257	RT	(7110)	PG&E	Humboldt	5/8/2017	30- 42	No	DEC	18	6:20	23:59
		Operating Procedure Number and Constraint									
258	RT	(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
		Operating Procedure Number and Constraint									
260	RT	(7110)	PG&E	Humboldt	5/9/2017	10- 40	No	INC	24	0:00	23:59

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Num	Typ		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Operating Procedure Number and Constraint									
261	RT	(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
202	K1	Operating Procedure Number and Constraint	PGQE	пиньош	3/10/2017	13- 66	INO	INC	10	0.33	23.39
263	RT	(7110)	PG&E	Humboldt	5/11/2017	10- 35	No	DEC	18	5:30	23:29
		Operating Procedure Number and Constraint									
264	RT	(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
		Operating Procedure Number and Constraint	. 00.2	Trainbolat	0,12,2011	20 01	110	520		0.11	20.11
266	RT	(7110)	PG&E	Humboldt	5/12/2017	21- 56	No	INC	19	5:30	23:59
		Operating Procedure Number and Constraint									
267	RT	(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
		Operating Procedure Number and Constraint									
269	RT	(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
270	111	Operating Procedure Number and Constraint	1 Out	Turnbolat	0/1-1/2011	10 70	110	1110	24	0.00	20.00
271	RT	(7110)	PG&E	Humboldt	5/15/2017	16- 40	No	DEC	18	6:27	23:59
.=-		Operating Procedure Number and Constraint	5005		-/	40.40			0.4		
272	RT	(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
		Operating Procedure Number and Constraint									
274	RT	(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
2,0	1	Operating Procedure Number and Constraint	1 001	Hambolat	5/11/2011	10 70	140		10	0.00	20.00
276	RT	(7110)	PG&E	Humboldt	5/18/2017	21- 30	No	DEC	8	15:35	23:14

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Num	Тур		Locatio	Local Reliability			itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Operating Procedure Number and Constraint									
277	RT	(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
270	N1	Operating Procedure Number and Constraint	FGGE	Turribolat	5/19/2017	10- 50	INO	DEC	17	0.15	22.29
279	RT	(7110)	PG&E	Humboldt	5/19/2017	10- 150	No	INC	24	0:00	23:59
		Operating Procedure Number and Constraint									
280	RT	(7110)	PG&E	Humboldt	5/20/2017	20- 144	No	INC	24	0:00	23:59
004	БТ	Operating Procedure Number and Constraint	DONE	11 1-16	E /04 /0047	40.04	N1.	DEO	40	40.05	00.00
281	RT	(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
		Operating Procedure Number and Constraint								0.00	
283	RT	(7110)	PG&E	Humboldt	5/22/2017	24- 45	No	DEC	17	7:15	23:59
		Operating Procedure Number and Constraint									
284	RT	(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
200	N1	Operating Procedure Number and Constraint	FGGE	Turribolat	3/23/2017	14	INO	INC	ı	0.00	0.59
286	RT	(7110)	PG&E	Humboldt	5/25/2017	47	No	DEC	3	21:15	23:59
		Operating Procedure Number and Constraint									
287	RT	(7110)	PG&E	Humboldt	5/25/2017	30- 60	No	INC	3	21:15	23:59
000	D.T.	Operating Procedure Number and Constraint	D00E		5/00/0047	04 00		550	4.5		40.50
288	RT	(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
		Operating Procedure Number and Constraint			5, 25, 25 11		1.0			3.00	
290	RT	(7110)	PG&E	Humboldt	5/27/2017	16- 21	No	DEC	15	9:00	23:59
l		Operating Procedure Number and Constraint									
291	RT	(7110)	PG&E	Humboldt	5/27/2017	15- 21	No	INC	24	0:00	23:59
292	RT	Operating Procedure Number and Constraint	PG&E	Humboldt	5/28/2017	22	No	DEC	2	17:30	19:14
292	ΚI	(7110)	PG&E	пиньони	3/20/2017		INO	DEC		17.30	19.14

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Num	Тур		Locatio	Local Reliability			itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Operating Procedure Number and Constraint									
293	RT	(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	E/20/2017	49 60	No	DEC	7	17:35	23:59
294	KI	Operating Procedure Number and Constraint	PG&E	Hullibolat	5/29/2017	48- 60	No	DEC	/	17.35	23.59
295	RT	(7110)	PG&E	Humboldt	5/29/2017	24- 30	No	INC	7	17:35	23:59
		Operating Procedure Number and Constraint			5,25,25,1						
296	RT	(7110)	PG&E	Humboldt	5/30/2017	13	No	DEC	8	10:15	17:59
007	D.T.	Operating Procedure Number and Constraint	D00E		E /0.0 /0.0 4.7	40.00		1110	0.4	0.00	00.50
297	RT	(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
200		Operating Procedure Number and Constraint	. 042	Transolat	0/01/2011		110	520		20.10	20.20
299	RT	(7110)	PG&E	Humboldt	5/31/2017	15- 60	No	INC	24	0:00	23:59
		Operating Procedure Number and Constraint									
300	RT	(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	10.55	22.50
301	KI	Operating Procedure Number and Constraint	PG&E	INCIND	5/2/2017	60- 175	INO	DEC	6	18:55	23:59
302	RT	(7120)	PG&E	NCNB	5/3/2017	50- 195	No	DEC	24	0:00	23:59
		Operating Procedure Number and Constraint		1,0,1,0	0, 0, 0, 0					0100	
303	RT	(7120)	PG&E	NCNB	5/4/2017	55- 190	No	DEC	24	0:00	23:59
		Operating Procedure Number and Constraint			_/_/_						
304	RT	(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
300	111	Operating Procedure Number and Constraint	1 001	Day Alca	0/27/2017	130	110	1140	12	5.20	20.00
306	RT	(7410)	PG&E	Stockton	5/19/2017	261	No	DEC	1	23:40	23:59
		Operating Procedure Number and Constraint									
307	RT	(7410)	PG&E	Stockton	5/20/2017	261	No	INC	1	0:00	0:29
200	DT	Operating Procedure Number and Constraint	חספר	F#45:55	E/A/0047	4.40	NI-	INIO		00:05	00.50
308	RT	(7430)	PG&E	Fresno	5/4/2017	140	No	INC	1	23:05	23:59

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Num	Тур		Locatio	Local Reliability			itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Operating Procedure Number and Constraint									
309	RT	(7430)	PG&E	Fresno	5/5/2017	83- 280	Yes	INC	6	0:00	5:59
0.10		Operating Procedure Number and Constraint	00005	0 5: "/	= /0.4 /0.0.4 =						
310	RT	(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
					-///	100-					
316	RT	Other Reliability Requirement	PG&E	N/A	5/1/2017	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
317	K1	Other Reliability Requirement	PGQE	IN/A	3/6/2017	100-	INO	DEC	14	7.49	21.09
318	RT	Other Reliability Requirement	PG&E	N/A	5/11/2017	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

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Mana	ket		1	Land Baratire			mm	1110		D	F1
Num ber	Typ e	Reason	Locatio	Local Reliability Area	Trade Date	MW	itm ent	INC_ DEC	Hou rs	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 Other Reliability Requirement	PG&E	Stockton	5/15/2017	30- 50	No	INC	7	0:00	6:23
337	RT		PG&E				No	DEC	-		
-		Other Reliability Requirement		Stockton	5/16/2017	45- 55		INC	4	16:25	19:59
338	RT	Other Reliability Requirement	PG&E	Stockton	5/16/2017	45- 55	No		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
						130-					
346	RT	Other Reliability Requirement	SCE	LA Basin	5/23/2017	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
		Planned Transmission Outage and									
350	RT	Constraint	Intertie	N/A	5/2/2017	250	No	DEC	2	18:30	19:59
		Planned Transmission Outage and									
351	RT	Constraint	PG&E	Bay Area	5/8/2017	555	No	INC	6	18:55	23:59
050	БТ	Planned Transmission Outage and	D00F	D 4	E/0/0047	331-		550	4.0	0.00	45.50
352	RT	Constraint	PG&E	Bay Area	5/9/2017	500	No	DEC	10	6:20	15:59
353	рт	Planned Transmission Outage and	PG&E	Doy Area	E/0/2017	331-	No	INIC	16	0.00	15.50
ააა	RT	Constraint Planned Transmission Outage and	PG&E	Bay Area	5/9/2017	735	No	INC	16	0:00	15:59
354	RT	Constraint	PG&E	Fresno	5/1/2017	8	No	DEC	9	10:10	18:44
334	111	Planned Transmission Outage and	1 Jal	1 163110	3/1/2017	U	140	DLC	3	10.10	10.44
355	RT	Constraint	PG&E	Fresno	5/1/2017	8	No	INC	9	10:10	18:44
555	111	Outstraint	I Oal	1 163110	3/1/2017	U	INU	IIIO	J	10.10	10.77

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Num	Тур		Locatio	Local Reliability			itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Planned Transmission Outage and									
356	RT	Constraint	PG&E	Humboldt	5/2/2017	28- 105	No	DEC	15	9:45	23:59
		Planned Transmission Outage and									
357	RT	Constraint	PG&E	Humboldt	5/2/2017	30- 68	No	INC	15	9:45	23:59
		Planned Transmission Outage and									
358	RT	Constraint	PG&E	Humboldt	5/3/2017	40	No	INC	13	0:00	12:29
		Planned Transmission Outage and									
359	RT	Constraint	PG&E	Humboldt	5/4/2017	30- 54	No	DEC	3	21:45	23:59
		Planned Transmission Outage and									
360	RT	Constraint	PG&E	Humboldt	5/4/2017	30- 54	No	INC	3	21:45	23:59
		Planned Transmission Outage and							_		
361	RT	Constraint	PG&E	Humboldt	5/5/2017	30	No	INC	1	0:00	0:59
	D.T.	Planned Transmission Outage and	5005		- /- /0.0 4			550			40.50
362	RT	Constraint	PG&E	Humboldt	5/7/2017	27	No	DEC	13	7:50	19:59
000	БТ	Planned Transmission Outage and	D015	11 1 1-16	E /7 /0047	07 00		INIO	40	7.50	40.50
363	RT	Constraint	PG&E	Humboldt	5/7/2017	27- 32	No	INC	13	7:50	19:59
004	БТ	Planned Transmission Outage and	DOSE	l louada a lalt	E/40/0047	00 40	NI-	INIC		0.00	0.44
364	RT	Constraint	PG&E	Humboldt	5/16/2017	20- 40	No	INC	2	6:20	8:14
205	RT	Planned Transmission Outage and	PG&E	المام ماميد	E/47/0047	20	Nia	DEC	40	7.05	40.50
365	ΚI	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
300	ΚI	Planned Transmission Outage and	FGaE	Hullibolat	3/17/2017	30- 40	INO	IIIC	13	7.23	19.59
367	RT	Constraint	PG&E	Humboldt	5/23/2017	30- 102	No	DEC	19	5:25	23:59
307	17.1	Planned Transmission Outage and	FOAL	Turribolat	3/23/2017	30-102	INO	DLC	19	3.23	23.39
368	RT	Constraint	PG&E	Humboldt	5/23/2017	45- 161	No	INC	19	5:25	23:59
300	111	Planned Transmission Outage and	1 Oak	Turribolat	3/23/2017	43-101	110	1110	10	J.2J	20.00
369	RT	Constraint	PG&E	Humboldt	5/24/2017	22- 57	No	DEC	21	3:45	23:59
- 000	131	Planned Transmission Outage and	1 000	Tidilibolat	JIZ TIZO II	22 01	110	220		0.40	20.00
370	RT	Constraint	PG&E	Humboldt	5/24/2017	33- 103	No	INC	24	0:00	23:59
0.0		Planned Transmission Outage and		. Idilibolat	0,2 1,2011	33 100	. 10			3.00	20.00
371	RT	Constraint	PG&E	Humboldt	5/25/2017	44	No	DEC	5	15:05	19:59

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Num	Тур		Locatio	Local Reliability			itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Planned Transmission Outage and									
372	RT	Constraint	PG&E	Humboldt	5/25/2017	44- 77	No	INC	20	0:00	19:59
		Planned Transmission Outage and									
373	RT	Constraint	PG&E	N/A	5/7/2017	49- 178	No	DEC	13	7:35	19:59
		Planned Transmission Outage and									
374	RT	Constraint	PG&E	N/A	5/7/2017	66	No	INC	13	7:35	19:59
		Planned Transmission Outage and									
375	RT	Constraint	PG&E	N/A	5/9/2017	500	No	DEC	5	19:45	23:59
		Planned Transmission Outage and									
376	RT	Constraint	PG&E	N/A	5/9/2017	500	No	INC	5	19:45	23:59
		Planned Transmission Outage and			_,,_,_				_		
377	RT	Constraint	PG&E	N/A	5/10/2017	500	No	DEC	6	18:10	23:59
		Planned Transmission Outage and									
378	RT	Constraint	PG&E	N/A	5/10/2017	500	No	INC	6	18:10	23:59
		Planned Transmission Outage and	5005	21/2	-////						
379	RT	Constraint	PG&E	N/A	5/11/2017	500	No	INC	6	0:00	5:44
000	БТ	Planned Transmission Outage and	DO 0 E	0'	E /4 /0047	00 440		DE0		7.40	00.50
380	RT	Constraint	PG&E	Sierra	5/1/2017	28- 140	No	DEC	14	7:12	20:59
204	БТ	Planned Transmission Outage and	DOSE	0:	F/0/0047	125-	NI-	DEC	40	4.00	40.50
381	RT	Constraint Constraint Contage and	PG&E	Sierra	5/2/2017	150	No	DEC	13	4:20	16:59
382	RT	Planned Transmission Outage and	PG&E	Sierra	5/9/2017	130- 163	No	DEC	20	0:40	10.50
302	KI	Constraint Planned Transmission Outage and	PG&E	Sierra	5/9/2017	120-	INO	DEC	20	0.40	19:59
383	RT	Constraint	PG&E	Sierra	5/10/2017	212	No	DEC	16	8:50	23:59
303	ΚI	Planned Transmission Outage and	PG&E	Sierra	3/10/2017	212	INO	DEC	10	6.30	23.39
384	RT	Constraint	PG&E	Sierra	5/11/2017	40- 231	No	DEC	24	0:00	23:59
304	I I I	Planned Transmission Outage and	FGŒ	Sicila	3/11/2017	40-231	INU	DEC	24	0.00	23.59
385	RT	Constraint	PG&E	Sierra	5/12/2017	150	No	DEC	12	10:15	21:59
303	111	Planned Transmission Outage and	1 Gal	Jiena	JIIZIZUII	205-	110	DLC	14	10.13	21.03
386	RT	Constraint	PG&E	Sierra	5/13/2017	205-	No	DEC	24	0:00	23:59
300	13.1	Planned Transmission Outage and	1 Gal	Jiena	3/13/2017	223	110	DLC	24	0.00	20.03
387	RT	Constraint	PG&E	Sierra	5/13/2017	45- 65	No	INC	24	0:00	23:59
557	1 / 1	Constraint	1 Oak	Gioria	5/15/2017	I +0- 00	140	1140	4	0.00	20.00

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	ket						mm				
Num	Тур	Dancer	Locatio	Local Reliability	Trada Data	BANA/	itm	INC_	Hou	Begin	End
ber	е	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
200	БТ	Planned Transmission Outage and	DOSE	0:	E/4.4/0047	005	NI-	DEC	0.4	0.00	00.50
388	RT	Constraint Constraint Contains and	PG&E	Sierra	5/14/2017	205	No	DEC	24	0:00	23:59
389	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	E/4.4/2047	65	No	INC	24	0:00	23:59
309	ΚI	Planned Transmission Outage and	PG&E	Sierra	5/14/2017	205-	INO	INC	24	0.00	23.59
390	рт	Constraint	PG&E	Ciarra	E/4E/0047	205- 375	Nia	DEC	24	0:00	22.50
390	RT	Planned Transmission Outage and	PG&E	Sierra	5/15/2017	3/5	No	DEC	24	0:00	23:59
201	рт		DC 0 E	Ciorro	E/4E/2047	1E CE	No	INC	24	0:00	22.50
391	RT	Constraint Constraint Contains and	PG&E	Sierra	5/15/2017	45- 65 115-	No	INC	24	0:00	23:59
392	RT	Planned Transmission Outage and Constraint	PG&E	Sierra	5/16/2017	135	No	DEC	24	0:00	23:59
392	ΚI	Planned Transmission Outage and	PG&E	Sierra	5/16/2017	135-	INO	DEC	24	0.00	23.59
393	RT	Constraint	PG&E	Sierra	5/16/2017	155	No	INC	24	0:00	23:59
393	N I	Planned Transmission Outage and	FGAL	Sierra	5/10/2017	155	INO	INC	24	0.00	23.59
394	RT	Constraint	PG&E	Sierra	5/17/2017	20	No	DEC	11	0:00	10:29
334	IXI	Planned Transmission Outage and	FGGL	Sierra	3/11/2011	20	INO	DLC	11	0.00	10.29
395	RT	Constraint	PG&E	Sierra	5/17/2017	250	No	INC	19	0:00	18:59
000	101	Planned Transmission Outage and	1 Out	Olona	0/11/2017	200	140		10	0.00	10.00
396	RT	Constraint	PG&E	Sierra	5/24/2017	42	No	DEC	8	12:45	19:59
000	1	Planned Transmission Outage and	1 002	Olona -	0/2 1/2017	12	110	DEG		12.10	10.00
397	RT	Constraint	PG&E	Sierra	5/24/2017	3- 42	No	INC	10	10:45	19:59
		Planned Transmission Outage and	1 002	0.0114	0/2 1/2011	0 .2	110			10.10	10.00
398	RT	Constraint	PG&E	Sierra	5/25/2017	160	No	DEC	8	12:20	20:14
		Planned Transmission Outage and									
399	RT	Constraint	PG&E	Stockton	5/12/2017	60	No	DEC	20	2:30	21:59
		Planned Transmission Outage and									
400	RT	Constraint	PG&E	Stockton	5/12/2017	60	No	INC	20	2:30	21:59
		Planned Transmission Outage and									
401	RT	Constraint	PG&E	Stockton	5/13/2017	60- 80	No	DEC	18	5:05	22:24
		Planned Transmission Outage and					•				
402	RT	Constraint	PG&E	Stockton	5/13/2017	75- 171	No	INC	16	6:00	21:49
		Planned Transmission Outage and									
403	RT	Constraint	PG&E	Stockton	5/14/2017	60- 75	No	DEC	19	5:00	23:59

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Num	ket Typ		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC_	rs	Time	Time
		Planned Transmission Outage and									
404	RT	Constraint	PG&E	Stockton	5/14/2017	60- 75	No	INC	19	5:00	23:59
		Planned Transmission Outage and									
405	RT	Constraint	PG&E	Stockton	5/16/2017	50- 80	No	DEC	15	5:00	19:59
		Planned Transmission Outage and									
406	RT	Constraint	PG&E	Stockton	5/16/2017	60- 250	No	INC	17	6:50	22:59
		Planned Transmission Outage and				135-					
407	RT	Constraint	PG&E	Stockton	5/17/2017	160	No	DEC	12	9:20	21:14
		Planned Transmission Outage and				135-					
408	RT	Constraint	PG&E	Stockton	5/17/2017	320	No	INC	13	8:45	21:14
		Planned Transmission Outage and									
409	RT	Constraint	PG&E	Stockton	5/18/2017	96	No	INC	1	0:55	1:44
		Planned Transmission Outage and			_,,_,_,						
410	RT	Constraint	PG&E	Stockton	5/19/2017	62- 140	No	DEC	18	6:10	23:59
		Planned Transmission Outage and	5005	0	-/40/004-						40.50
411	RT	Constraint	PG&E	Stockton	5/19/2017	70	No	INC	12	8:15	19:59
440	БТ	Planned Transmission Outage and	DONE	0(1(E/00/0047	70 75	N	DE0	00	4.45	00.50
412	RT	Constraint	PG&E	Stockton	5/20/2017	70- 75	No	DEC	20	4:45	23:59
110	БТ	Planned Transmission Outage and	DONE	Ota alata a	F/00/0047	60 75	NI-	INIC	0.4	0.00	00.50
413	RT	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	400	No	DEC	11	40.45	20.50
414	KI	Planned Transmission Outage and	PG&E	Stockton	5/23/2017	100 100-	INO	DEC	11	10:45	20:59
415	RT	Constraint	PG&E	Stockton	5/23/2017	155	No	INC	11	10:45	20:59
413	ΚI	Planned Transmission Outage and	PG&E	Stockton	3/23/2017	155	INO	IIIC	11	10.45	20.59
416	RT	Constraint	PG&E	Stockton	5/26/2017	96- 145	No	INC	6	18:43	23:59
410	N1	Planned Transmission Outage and	FGAL	Stockton	3/20/2017	126-	INO	INC	0	10.43	23.59
417	RT	Constraint	PG&E	Stockton	5/27/2017	201	No	INC	24	0:00	23:59
717	111	Planned Transmission Outage and	1 Oak	Olockion	3/21/2017	201	110	1110	27	0.00	20.00
418	RT	Constraint	PG&E	Stockton	5/28/2017	50- 100	No	DEC	12	6:45	17:59
710	111	Planned Transmission Outage and	1 Oak	Otookton	0/20/2017	30 100	110	DLO	12	0.70	17.55
419	RT	Constraint	PG&E	Stockton	5/28/2017	50- 100	No	INC	12	6:45	17:59
-10	1.7.1	Constraint	1 Oak	Clockton	0/20/2011	00 100	110		14	0.70	17.00

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Num	Тур		Locatio	Local Reliability			mm itm	INC	Hou	Begin	End
ber	e	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
		Planned Transmission Outage and									
420	RT	Constraint	PG&E	Stockton	5/29/2017	20- 30	No	DEC	22	2:43	23:58
		Planned Transmission Outage and									
421	RT	Constraint	PG&E	Stockton	5/29/2017	20- 30	No	INC	22	2:43	23:58
		Planned Transmission Outage and									
422	RT	Constraint	PG&E	Stockton	5/30/2017	17- 30	No	DEC	24	0:00	23:20
		Planned Transmission Outage and									
423	RT	Constraint	PG&E	Stockton	5/30/2017	17- 30	No	INC	24	0:00	23:58
		Planned Transmission Outage and									
424	RT	Constraint	PG&E	Stockton	5/31/2017	20	No	DEC	24	0:00	23:58
		Planned Transmission Outage and			_,_,						
425	RT	Constraint	PG&E	Stockton	5/31/2017	20	No	INC	24	0:00	23:58
		Planned Transmission Outage and		Big Creek-		656-			_		
426	RT	Constraint	SCE	Ventura	5/13/2017	725	No	DEC	5	19:06	23:59
40-		Planned Transmission Outage and	005	Big Creek-	-/4.4/004-	525-		550		40.40	
427	RT	Constraint	SCE	Ventura	5/14/2017	1100	No	DEC	6	18:40	23:59
400	БТ	Planned Transmission Outage and	005	Big Creek-	E /4.4/0047	000	N	1110		0.00	0.50
428	RT	Constraint	SCE	Ventura	5/14/2017	690	No	INC	4	0:00	3:59
400	БТ	Planned Transmission Outage and	005	Big Creek-	E/4E/0047	500	NI-	DEC		F-00	7.50
429	RT	Constraint Constraint Contains and	SCE	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
430	KI	Planned Transmission Outage and	SCE	ventura	5/15/2017	623	INO	INC		0.00	1.59
431	RT	Constraint	SDG&E	San Diego-IV	5/12/2017	6	No	DEC	10	8:20	17:59
431	ΚI	Planned Transmission Outage and	SDG&E	San Diego-iv	3/12/2017	0	INO	DEC	10	0.20	17.59
432	RT	Constraint	SDG&E	San Diego-IV	5/12/2017	47- 53	No	INC	10	8:20	17:59
432	IN I	Planned Transmission Outage and	SDGQE	San Diego-IV	3/12/2017	41- 03	INU	IIIU	10	0.20	17.58
433	RT	Constraint	SDG&E	San Diego-IV	5/13/2017	48- 51	No	INC	10	8:05	17:59
400	111	Planned Transmission Outage and	SDOGL	Gan Diego-IV	3/13/2017	70- 31	110	1110	10	0.00	11.55
434	RT	Constraint	SDG&E	San Diego-IV	5/14/2017	35- 60	No	INC	8	10:50	17:59
707	111	Planned Transmission Outage and	ODOGL	Jan Diego-IV	J/ 17/2011	30° 00	110	1140		10.00	17.55
435	RT	Constraint	SDG&E	San Diego-IV	5/16/2017	63	No	INC	10	10:30	19:59
_ +00	17.1	Constraint	ODOGL	Can Diego IV	3/10/2017	00	110	1140	10	10.50	10.00

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436 RT 437 RT	Reason	Locatio	Local Reliability Area	Trade Date	MW	itm ent	INC_ DEC	Hou rs	Begin Time	End Time
437 RT	Planned Transmission Outage and	n	Alea	Trade Date	141 4 4	ent	DEC	13	Tillie	Tillle
437 RT	Constraint	SDG&E	San Diego-IV	5/23/2017	12- 35	No	INC	4	15:45	18:59
	Planned Transmission Outage and	OBCAL	Can Biogo IV	0/20/2017	12 00	110	1110		10.10	10.00
/20 DT	Constraint	SDG&E	San Diego-IV	5/24/2017	18	No	DEC	8	11:15	19:14
120 DT	Planned Transmission Outage and		J							
430 KT	Constraint	SDG&E	San Diego-IV	5/24/2017	44	No	INC	15	9:54	23:59
	Planned Transmission Outage and									
439 RT	Constraint	SDG&E	San Diego-IV	5/25/2017	200	No	INC	24	0:00	23:59
140 DT	Planned Transmission Outage and	00005	0 D' 1) (5/00/0047	000	NI.	INIO	00	0.00	04.50
440 RT	Constraint Planned Transmission Outage and	SDG&E	San Diego-IV	5/26/2017	200	No	INC	22	0:00	21:59
441 RT	Constraint	SDG&E	San Diego-IV	5/31/2017	37	No	DEC	9	12:18	20:59
441 101	Planned Transmission Outage and	ODGGE	San Diego-iv	3/31/2017	31	140	DLO	3	12.10	20.55
442 RT	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

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ber	е	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	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
404	БТ	Coftware Limitation	005	Big Creek-	E/7/0047		NI.	DEC	_	40.55	40.50
461	RT	Software Limitation	SCE	Ventura Big Creek-	5/7/2017	555	No	DEC	7	13:55	19:59
462	RT	Software Limitation	SCE	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
						_		INC	1		
464	RT	Software Limitation	SCE	LA Basin	5/12/2017	0	No		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
400	БТ	Helic Teacher	005	Big Creek-	E/04/0047	50 705	NI.	INIO	4.4	40.00	00.50
468	RT	Unit Testing	SCE	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
409	KI	Offic results	SCE	Big Creek-	3/22/2017	50-	INO	IIVC	24	0.00	23.39
470	RT	Unit Testing	SCE	Ventura	5/23/2017	1526	No	INC	23	0:00	22:14
470	111	O'nt resting	001	Big Creek-	3/23/2011	1020	140	1110	20	0.00	22.17
471	RT	Unit Testing	SCE	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
473	111	Offic resulting	JOL	LA Dasili	3/12/2017	180-	110	IIVO		10.01	11.04
476	RT	Unit Testing	SCE	LA Basin	5/16/2017	200	No	DEC	4	17:00	20:44
		- C-m 1 C-c-mig	002	27 (20011	0/10/2011	180-		220	· ·	11.00	20.11
477	RT	Unit Testing	SCE	LA Basin	5/16/2017	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
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ber	е	Reason	n	Area	Trade Date	MW	ent	DEC	rs	Time	Time
481	RT	Unit Testing	SCE	LA Basin	5/22/2017	70- 665	No	INC	24	0:00	23:59
						130-					
482	RT	Unit Testing	SCE	LA Basin	5/23/2017	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	Α	SCE	LA BASIN	05:00	10:00	50	7630
01-Jul-09	DA	В	SCE	LA BASIN	08:00	20:00	30	7630
01-Jul-09	DA	С	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	Α	PG&E	Humboldt	06:00	11:00	30	0	Yes	INC	30	7110
01-Jul-09	RT	В	PG&E	Humboldt	07:00	09:00	40	20	No	INC	20	7110
01-Jul-09	RT	С	PG&E	Humboldt	12:00	15:00	50	50	No	INC	0	7110
01-Jul-09	RT	С	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	Α	PG&E	Fresno	15:00	20:00	20	0	Yes	INC	20	7430
01-Jul-09	RT	В	PG&E	Fresno	07:00	09:00	40	60	No	DEC	20	7430
01-Jul-09	RT	С	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 17th day of July, 2017

Isl Anna Pascuyyo
Anna Pascuzzo