



Exceptional Dispatch Report

Table 1: August 2020

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Introduction

This report is filed pursuant to FERC's September 2, 2009, and May 4, 2010, orders in Docket No. ER08-1178. These orders require two monthly Exceptional Dispatch reports—one issued on the 15th of each month and one originally issued on the 30th of each month. Both Table 1 and Table 2 reports will be issued on the 15th of each month due to the availability of necessary data. This report provides data on the frequency and reasons for Exceptional Dispatches issued in August 2020.

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 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 August 2020 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

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>

resource has a day-ahead schedule from 0600 till 2300, and then is shut down in 2400. If this resource had a minimum down time of 24 hours and it is required the following day, then the 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. Interconnection Reliability Operating Limits (IROL) are system operating limits that are established to prevent instability, uncontrolled separation or cascading as described in operating procedure 3100. System Operating Limit (SOL) are the facility ratings, system voltage limits, transient stability limits, and voltage stability limits that are used in the operating horizon – any of which can be the most restrictive limit at any point in time, pre – or post – contingency. Control Point (CP) are imposed to protect the area transmission network against N – 1 contingencies. There were a few other reasons used to explain exceptional dispatch instructions in August 2020, 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 481 exceptional dispatches in August 2020, as compared to 307 exceptional dispatches in July 2020. Exceptional dispatches issued for the following reasons accounted for approximately 73 percent of the total exceptional dispatches during the reporting period: load forecast

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.

uncertainty, planned transmission outages, reliability assessment, and ramping capacity. Exceptional dispatches with the reason “Reliability Assessment” were due to Real Time Contingency Analysis, Voltage Stability Analysis, and operating procedure number 7720 (along with 6410, 7120, 7230, 7320, 7430, and 7450). Reliability Assessment is the reason as explained in the operator procedure 2330C⁴ that encompasses Control Point (CP), Interconnection Reliability Operating Limit (IROL), System Operating Limit (SOL) and congestion related EDs. This reason is used to mitigate reliability issues identified through the real – time assessment tools such as Real Time Contingency Analysis (RTCA), Voltage Stability Analysis (VSA), Dynamic Stability Analysis (DSA) and/or Operating Procedure (OP) or offline study.

1) ⁴ The operator procedure 2330C - <http://www.caiso.com/Documents/2330C.pdf>

Table 1: Exceptional Dispatches in August 2020

**California Independent System Operator Corporation
Exceptional Dispatch Report
October 15, 2020**

Chart 1: Table of Exceptional Dispatches for Period 01/August/2020 - 31/August/2020

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
1	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/22/2020	50	No	INC	1	23:00	0:00
2	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/26/2020	100	No	INC	1	23:00	0:00
3	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/27/2020	100	No	INC	14	0:00	14:00
4	RT	Bridging Schedules	SCE	Big Creek-Ventura	8/28/2020	100	No	INC	14	0:00	14:00
5	RT	Bridging Schedules	SCE	LA Basin	8/23/2020	10	No	INC	1	23:00	0:00
6	RT	Bridging Schedules	SCE	LA Basin	8/26/2020	10	No	INC	1	23:00	0:00
7	RT	Bridging Schedules	SCE	LA Basin	8/27/2020	10 - 20	Yes	INC	24	0:00	0:00
8	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	8/12/2020	401	No	INC	4	20:50	0:00
9	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	8/13/2020	401	No	INC	17	0:00	17:00
10	RT	Conditions beyond the control of the CAISO	SCE	Big Creek-Ventura	8/18/2020	665	No	INC	1	14:35	15:15
11	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	8/9/2020	190	No	INC	3	17:35	20:00
12	RT	Conditions beyond the control of the CAISO	SCE	LA Basin	8/12/2020	400 - 475	No	DEC	1	17:15	18:00
13	RT	Conditions beyond the control of the CAISO	SDGE	San Diego-IV	8/17/2020	25	No	DEC	1	20:45	21:00
14	RT	Fast Start Unit Management	PG&E	Bay Area	8/4/2020	0	No	INC	2	3:30	4:35

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
15	RT	Fast Start Unit Management	PGAE	Bay Area	8/24/2020	20	No	DEC	3	17:00	20:00
16	RT	Fast Start Unit Management	PGAE	Bay Area	8/24/2020	20	No	INC	5	16:55	21:30
17	RT	Fast Start Unit Management	PGAE	Bay Area	8/25/2020	0	No	INC	2	7:15	8:20
18	RT	Fast Start Unit Management	PGAE	Bay Area	8/28/2020	0	No	INC	2	20:30	22:05
19	RT	Fast Start Unit Management	PGAE	Fresno	8/15/2020	0	No	INC	3	21:00	0:00
20	RT	Fast Start Unit Management	PGAE	Fresno	8/18/2020	0	No	INC	1	23:15	0:00
21	RT	Fast Start Unit Management	PGAE	Fresno	8/19/2020	0	No	INC	3	0:00	2:15
22	RT	Fast Start Unit Management	PGAE	Fresno	8/24/2020	73	No	DEC	4	16:55	20:30
23	RT	Fast Start Unit Management	PGAE	Fresno	8/28/2020	0	No	INC	3	21:00	0:00
24	RT	Fast Start Unit Management	PGAE	NA	8/18/2020	307	No	DEC	4	4:40	8:00
25	RT	Fast Start Unit Management	PGAE	NA	8/18/2020	307	No	INC	14	8:00	22:00
26	RT	Fast Start Unit Management	PGAE	NA	8/24/2020	306.1	No	DEC	8	13:45	21:00
27	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/15/2020	0	No	INC	1	22:45	23:45
28	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/17/2020	0	No	INC	2	22:30	0:00
29	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/18/2020	0	No	INC	24	0:00	23:30
30	RT	Fast Start Unit Management	SCE	Big Creek-Ventura	8/28/2020	0	No	INC	1	20:30	21:30
31	RT	Fast Start Unit Management	SCE	LA Basin	8/15/2020	0	No	INC	2	21:45	22:55
32	RT	Fast Start Unit Management	SCE	LA Basin	8/16/2020	0	No	INC	1	23:30	0:00
33	RT	Fast Start Unit Management	SCE	LA Basin	8/17/2020	0	No	INC	24	0:00	23:50
34	RT	Fast Start Unit Management	SCE	LA Basin	8/18/2020	0	No	INC	1	23:30	0:00
35	RT	Fast Start Unit Management	SCE	LA Basin	8/19/2020	0	No	INC	1	0:00	0:35
36	RT	Fast Start Unit Management	SCE	LA Basin	8/22/2020	0	No	INC	1	10:00	10:30
37	RT	Fast Start Unit Management	SCE	LA Basin	8/25/2020	0	No	INC	2	20:55	22:00
38	RT	Fast Start Unit Management	SCE	LA Basin	8/27/2020	0	No	INC	2	21:30	22:35
39	RT	Fast Start Unit Management	SCE	LA Basin	8/28/2020	0	No	INC	2	20:30	22:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
40	RT	Fast Start Unit Management	SDGE	San Diego-IV	8/24/2020	21 - 25	No	DEC	4	16:15	20:00
41	RT	Fast Start Unit Management	SDGE	San Diego-IV	8/24/2020	21 - 25	No	INC	5	16:15	21:00
42	RT	Fast Start Unit Management	SDGE	San Diego-IV	8/28/2020	0	No	INC	1	21:00	22:00
43	RT	Gas Limitations	PGAE	Fresno	8/18/2020	250 - 407	No	INC	2	20:15	21:30
44	RT	Gas Limitations	PGAE	NA	8/15/2020	54	No	INC	2	16:55	18:00
45	RT	Gas Limitations	SCE	Big Creek-Ventura	8/18/2020	65	No	INC	2	11:45	13:00
46	RT	Gas Limitations	SCE	LA Basin	8/17/2020	140	No	INC	9	13:30	21:45
47	RT	Gas Limitations	SCE	LA Basin	8/18/2020	473	No	INC	10	11:15	21:00
48	RT	Intertie Emergency Assistance	Intertie	NA	8/14/2020	25	No	INC	3	17:00	20:00
49	RT	Intertie Emergency Assistance	Intertie	NA	8/16/2020	138	No	INC	2	18:00	20:00
50	RT	Intertie Emergency Assistance	Intertie	NA	8/17/2020	100 - 325	No	INC	3	17:00	20:00
51	RT	Intertie Emergency Assistance	Intertie	NA	8/18/2020	20 - 300	No	INC	5	13:15	18:00
52	RT	Intertie Emergency Assistance	Intertie	NA	8/18/2020	300	No	DEC	1	13:45	14:00
53	RT	Load Forecast Uncertainty	Intertie	NA	8/13/2020	54	No	INC	1	18:00	19:00
54	RT	Load Forecast Uncertainty	Intertie	NA	8/14/2020	107 - 273	No	INC	4	17:00	21:00
55	RT	Load Forecast Uncertainty	Intertie	NA	8/15/2020	100 - 225	No	INC	3	17:00	20:00
56	RT	Load Forecast Uncertainty	Intertie	NA	8/16/2020	52 - 200	No	INC	1	18:00	19:00
57	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/3/2020	24	No	DEC	6	15:00	21:00
58	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/3/2020	24	No	INC	11	11:00	22:00
59	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/15/2020	186	No	DEC	2	18:25	20:00
60	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/17/2020	20	No	DEC	3	13:00	16:00
61	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/17/2020	20 - 90	No	INC	12	10:45	22:00
62	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/18/2020	290 - 552	No	DEC	11	12:30	23:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
63	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/18/2020	301 - 552	No	INC	10	12:45	22:00
64	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/19/2020	120	No	DEC	11	10:00	20:30
65	RT	Load Forecast Uncertainty	PGAE	Bay Area	8/19/2020	120	No	INC	4	16:00	20:00
66	RT	Load Forecast Uncertainty	PGAE	Fresno	8/14/2020	45 - 407	No	INC	7	16:20	22:45
67	RT	Load Forecast Uncertainty	PGAE	Fresno	8/15/2020	1.51	No	DEC	2	17:00	18:30
68	RT	Load Forecast Uncertainty	PGAE	Fresno	8/15/2020	83	No	INC	2	12:25	14:00
69	RT	Load Forecast Uncertainty	PGAE	Fresno	8/16/2020	1.51 - 48	No	INC	6	15:15	21:00
70	RT	Load Forecast Uncertainty	PGAE	Fresno	8/17/2020	41 - 91	No	DEC	4	17:00	21:00
71	RT	Load Forecast Uncertainty	PGAE	Fresno	8/17/2020	41 - 91	No	INC	10	12:00	22:00
72	RT	Load Forecast Uncertainty	PGAE	Fresno	8/18/2020	44	No	DEC	6	16:00	21:15
73	RT	Load Forecast Uncertainty	PGAE	Fresno	8/18/2020	22.5 - 407	No	INC	13	10:45	23:00
74	RT	Load Forecast Uncertainty	PGAE	Fresno	8/19/2020	78 - 96	No	INC	5	16:00	21:00
75	RT	Load Forecast Uncertainty	PGAE	NA	8/11/2020	121	No	INC	7	14:00	21:00
76	RT	Load Forecast Uncertainty	PGAE	NA	8/14/2020	46 - 569	No	INC	5	17:55	22:00
77	RT	Load Forecast Uncertainty	PGAE	NA	8/17/2020	10	No	DEC	1	17:00	17:50
78	RT	Load Forecast Uncertainty	PGAE	NA	8/17/2020	10 - 569	No	INC	7	15:25	22:00
79	RT	Load Forecast Uncertainty	PGAE	NA	8/18/2020	44 - 572	No	DEC	8	14:00	22:00
80	RT	Load Forecast Uncertainty	PGAE	NA	8/18/2020	11 - 580	No	INC	10	12:55	22:00
81	RT	Load Forecast Uncertainty	PGAE	NA	8/19/2020	5.6	No	DEC	5	16:00	21:00
82	RT	Load Forecast Uncertainty	PGAE	NA	8/19/2020	182	No	INC	7	15:30	22:00
83	RT	Load Forecast Uncertainty	PGAE	Sierra	8/14/2020	119	No	INC	3	19:00	22:00
84	RT	Load Forecast Uncertainty	PGAE	Sierra	8/17/2020	20	No	INC	3	10:00	12:45
85	RT	Load Forecast Uncertainty	PGAE	Sierra	8/18/2020	50	No	DEC	2	18:00	20:00
86	RT	Load Forecast Uncertainty	PGAE	Sierra	8/18/2020	50 - 119	No	INC	6	16:20	21:30
87	RT	Load Forecast Uncertainty	PGAE	Stockton	8/19/2020	20	No	DEC	2	19:00	21:00
88	RT	Load Forecast Uncertainty	PGAE	Stockton	8/19/2020	23.78	No	INC	3	16:00	19:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
89	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/1/2020	50	No	INC	2	22:00	0:00
90	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/2/2020	50	No	INC	24	0:00	0:00
91	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/3/2020	50 - 100	No	INC	24	0:00	0:00
92	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/12/2020	50	No	INC	5	16:00	20:50
93	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/14/2020	27.5 - 100	No	INC	8	16:40	0:00
94	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/15/2020	199	No	DEC	1	16:00	16:15
95	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/15/2020	199	No	INC	1	15:00	16:00
96	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/17/2020	53.9 - 741	No	DEC	6	15:00	21:00
97	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/17/2020	40 - 750	No	INC	12	11:00	22:15
98	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/18/2020	45 - 700	No	DEC	9	12:00	21:00
99	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/18/2020	47.1 - 720	No	INC	12	10:00	22:00
100	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/19/2020	650 - 700	No	INC	9	11:30	20:15
101	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/21/2020	100	No	INC	1	23:00	0:00
102	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/22/2020	100	No	INC	24	0:00	0:00
103	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/23/2020	50 - 100	No	INC	14	0:00	14:00
104	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/29/2020	100	No	INC	24	0:00	0:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
105	RT	Load Forecast Uncertainty	SCE	Big Creek-Ventura	8/30/2020	100	No	INC	24	0:00	0:00
106	RT	Load Forecast Uncertainty	SCE	Fresno	8/14/2020	10	No	DEC	4	16:15	20:00
107	RT	Load Forecast Uncertainty	SCE	Fresno	8/14/2020	10 - 140	No	INC	4	18:30	22:00
108	RT	Load Forecast Uncertainty	SCE	Fresno	8/17/2020	47	No	DEC	7	15:50	22:00
109	RT	Load Forecast Uncertainty	SCE	Fresno	8/17/2020	47	No	INC	1	19:00	20:00
110	RT	Load Forecast Uncertainty	SCE	Fresno	8/18/2020	47	No	DEC	4	17:25	21:00
111	RT	Load Forecast Uncertainty	SCE	LA Basin	8/2/2020	10 - 130	No	INC	22	2:00	0:00
112	RT	Load Forecast Uncertainty	SCE	LA Basin	8/3/2020	10	No	INC	4	0:00	4:00
113	RT	Load Forecast Uncertainty	SCE	LA Basin	8/11/2020	20	No	INC	10	14:00	0:00
114	RT	Load Forecast Uncertainty	SCE	LA Basin	8/12/2020	40	No	INC	1	23:05	0:00
115	RT	Load Forecast Uncertainty	SCE	LA Basin	8/13/2020	46.9	No	DEC	5	16:40	21:00
116	RT	Load Forecast Uncertainty	SCE	LA Basin	8/13/2020	40 - 263	No	INC	21	0:00	20:30
117	RT	Load Forecast Uncertainty	SCE	LA Basin	8/14/2020	10 - 46.9	No	DEC	8	14:40	22:00
118	RT	Load Forecast Uncertainty	SCE	LA Basin	8/14/2020	10 - 140	No	INC	7	16:00	22:30
119	RT	Load Forecast Uncertainty	SCE	LA Basin	8/15/2020	46.9 - 96	No	DEC	7	15:40	22:00
120	RT	Load Forecast Uncertainty	SCE	LA Basin	8/15/2020	46.9 - 96	No	INC	3	17:00	19:30
121	RT	Load Forecast Uncertainty	SCE	LA Basin	8/17/2020	45 - 315	No	DEC	8	14:00	22:00
122	RT	Load Forecast Uncertainty	SCE	LA Basin	8/17/2020	45 - 479.97	No	INC	11	11:30	22:30
123	RT	Load Forecast Uncertainty	SCE	LA Basin	8/18/2020	10 - 460	No	DEC	9	13:05	22:00
124	RT	Load Forecast Uncertainty	SCE	LA Basin	8/18/2020	10 - 460	No	INC	14	10:00	0:00
125	RT	Load Forecast Uncertainty	SCE	LA Basin	8/19/2020	56 - 440	No	DEC	6	15:00	21:00
126	RT	Load Forecast Uncertainty	SCE	LA Basin	8/19/2020	10 - 473	Yes	INC	24	0:00	0:00
127	RT	Load Forecast Uncertainty	SCE	LA Basin	8/20/2020	20	No	INC	13	11:00	0:00
128	RT	Load Forecast Uncertainty	SCE	LA Basin	8/22/2020	130 - 150	No	INC	24	0:00	0:00
129	RT	Load Forecast Uncertainty	SCE	LA Basin	8/24/2020	10	No	INC	12	12:00	0:00
130	RT	Load Forecast Uncertainty	SCE	NA	8/17/2020	330	No	DEC	9	13:25	22:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
131	RT	Load Forecast Uncertainty	SCE	NA	8/17/2020	330	No	INC	3	14:00	17:00
132	RT	Load Forecast Uncertainty	SCE	NA	8/18/2020	365	No	DEC	3	19:00	22:00
133	RT	Load Forecast Uncertainty	SCE	NA	8/18/2020	34 - 365	No	INC	9	12:00	20:45
134	RT	Load Forecast Uncertainty	SCE	NA	8/19/2020	350	No	DEC	5	18:00	22:15
135	RT	Load Forecast Uncertainty	SCE	NA	8/19/2020	350	No	INC	1	17:00	18:00
136	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/13/2020	24.25	No	DEC	5	16:25	20:30
137	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/14/2020	18.2 - 47.1	No	DEC	5	16:00	21:00
138	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/14/2020	18.2 - 47.1	No	INC	7	15:35	22:00
139	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/17/2020	-800	No	DEC	7	14:15	21:00
140	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/17/2020	50 - 403	No	INC	7	15:45	22:00
141	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/18/2020	-294	No	DEC	9	12:35	21:00
142	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/18/2020	22 - 102	No	INC	10	12:55	22:00
143	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/19/2020	-779	No	DEC	9	13:00	22:00
144	RT	Load Forecast Uncertainty	SDGE	San Diego-IV	8/19/2020	21 - 549	No	INC	9	14:00	22:15
145	RT	Market Disruption	Intertie	NA	8/19/2020	3	No	INC	1	19:00	20:00
146	RT	Other Reliability Requirement	PGAE	Bay Area	8/15/2020	15 - 53	No	INC	5	15:00	20:00
147	RT	Other Reliability Requirement	PGAE	Bay Area	8/16/2020	55	No	INC	5	16:55	21:00
148	RT	Other Reliability Requirement	PGAE	Bay Area	8/28/2020	300 - 370	No	DEC	1	16:05	16:20
149	RT	Other Reliability Requirement	PGAE	Bay Area	8/28/2020	555	No	INC	1	16:05	16:15
150	RT	Other Reliability Requirement	PGAE	Fresno	8/9/2020	83	No	DEC	2	18:00	20:00
151	RT	Other Reliability Requirement	PGAE	Fresno	8/9/2020	83	No	INC	2	16:55	18:00
152	RT	Other Reliability Requirement	PGAE	Fresno	8/15/2020	26 - 83	No	DEC	5	15:40	20:00
153	RT	Other Reliability Requirement	PGAE	Fresno	8/15/2020	26 - 407	No	INC	5	16:05	20:30
154	RT	Other Reliability Requirement	PGAE	NA	8/14/2020	0 - 39	No	INC	21	1:00	22:00
155	RT	Other Reliability Requirement	PGAE	NA	8/15/2020	244 - 249	No	INC	2	15:00	17:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
156	RT	Other Reliability Requirement	PGAE	NA	8/28/2020	0	No	DEC	1	16:00	16:15
157	RT	Other Reliability Requirement	PGAE	Stockton	8/15/2020	50	No	INC	3	17:50	20:00
158	RT	Other Reliability Requirement	SCE	Big Creek-Ventura	8/15/2020	15	No	DEC	1	16:15	16:30
159	RT	Planned Transmission Outage	PGAE	Fresno	8/13/2020	0	No	DEC	1	8:45	9:05
160	RT	Planned Transmission Outage	PGAE	Fresno	8/13/2020	0	No	INC	1	8:45	9:05
161	RT	Planned Transmission Outage	PGAE	Humboldt	8/1/2020	14 - 30	No	DEC	8	12:00	20:00
162	RT	Planned Transmission Outage	PGAE	Humboldt	8/1/2020	14 - 42	No	INC	24	0:00	0:00
163	RT	Planned Transmission Outage	PGAE	Humboldt	8/2/2020	28 - 30	No	DEC	4	18:00	22:00
164	RT	Planned Transmission Outage	PGAE	Humboldt	8/2/2020	14 - 45	No	INC	24	0:00	0:00
165	RT	Planned Transmission Outage	PGAE	Humboldt	8/3/2020	15 - 45	No	DEC	20	1:35	21:00
166	RT	Planned Transmission Outage	PGAE	Humboldt	8/3/2020	30 - 45	No	INC	24	0:00	0:00
167	RT	Planned Transmission Outage	PGAE	Humboldt	8/4/2020	28 - 45	No	INC	24	0:00	0:00
168	RT	Planned Transmission Outage	PGAE	Humboldt	8/5/2020	14 - 45	No	INC	24	0:00	0:00
169	RT	Planned Transmission Outage	PGAE	Humboldt	8/6/2020	28 - 45	No	INC	24	0:00	0:00
170	RT	Planned Transmission Outage	PGAE	Humboldt	8/7/2020	28 - 45	No	INC	24	0:00	0:00
171	RT	Planned Transmission Outage	PGAE	Humboldt	8/8/2020	14	No	DEC	12	7:15	18:20
172	RT	Planned Transmission Outage	PGAE	Humboldt	8/8/2020	14 - 45	No	INC	24	0:00	0:00
173	RT	Planned Transmission Outage	PGAE	Humboldt	8/9/2020	14 - 28	No	DEC	17	3:00	20:00
174	RT	Planned Transmission Outage	PGAE	Humboldt	8/9/2020	28 - 45	No	INC	24	0:00	0:00
175	RT	Planned Transmission Outage	PGAE	Humboldt	8/10/2020	28 - 42	No	INC	24	0:00	0:00
176	RT	Planned Transmission Outage	PGAE	Humboldt	8/11/2020	14 - 42	No	INC	24	0:00	0:00
177	RT	Planned Transmission Outage	PGAE	Humboldt	8/12/2020	28 - 42	No	DEC	1	19:00	20:00
178	RT	Planned Transmission Outage	PGAE	Humboldt	8/12/2020	28 - 42	No	INC	24	0:00	0:00
179	RT	Planned Transmission Outage	PGAE	Humboldt	8/13/2020	15 - 45	No	DEC	20	1:00	21:00
180	RT	Planned Transmission Outage	PGAE	Humboldt	8/13/2020	28 - 45	No	INC	24	0:00	0:00
181	RT	Planned Transmission Outage	PGAE	Humboldt	8/14/2020	14 - 60	No	DEC	17	6:00	23:00
182	RT	Planned Transmission Outage	PGAE	Humboldt	8/14/2020	28 - 60	No	INC	24	0:00	0:00
183	RT	Planned Transmission Outage	PGAE	Humboldt	8/15/2020	28 - 65	No	DEC	24	0:00	0:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
184	RT	Planned Transmission Outage	PGAE	Humboldt	8/15/2020	28 - 48	No	INC	24	0:00	0:00
185	RT	Planned Transmission Outage	PGAE	Humboldt	8/16/2020	32 - 65	No	DEC	24	0:00	0:00
186	RT	Planned Transmission Outage	PGAE	Humboldt	8/17/2020	28 - 65	No	DEC	24	0:00	0:00
187	RT	Planned Transmission Outage	PGAE	Humboldt	8/17/2020	15 - 65	No	INC	23	1:00	0:00
188	RT	Planned Transmission Outage	PGAE	Humboldt	8/18/2020	15 - 64	No	DEC	24	0:00	0:00
189	RT	Planned Transmission Outage	PGAE	Humboldt	8/18/2020	15 - 64	No	INC	24	0:00	0:00
190	RT	Planned Transmission Outage	PGAE	Humboldt	8/19/2020	15 - 48	No	DEC	24	0:00	0:00
191	RT	Planned Transmission Outage	PGAE	Humboldt	8/20/2020	15 - 45	No	DEC	24	0:00	0:00
192	RT	Planned Transmission Outage	PGAE	Humboldt	8/20/2020	28	No	INC	1	23:00	0:00
193	RT	Planned Transmission Outage	PGAE	Humboldt	8/21/2020	15 - 45	No	DEC	24	0:00	0:00
194	RT	Planned Transmission Outage	PGAE	Humboldt	8/21/2020	28	No	INC	24	0:00	0:00
195	RT	Planned Transmission Outage	PGAE	Humboldt	8/22/2020	16 - 32	No	DEC	21	2:15	23:00
196	RT	Planned Transmission Outage	PGAE	Humboldt	8/22/2020	28 - 45	No	INC	24	0:00	0:00
197	RT	Planned Transmission Outage	PGAE	Humboldt	8/23/2020	14 - 28	No	DEC	24	0:00	0:00
198	RT	Planned Transmission Outage	PGAE	Humboldt	8/23/2020	28	No	INC	24	0:00	0:00
199	RT	Planned Transmission Outage	PGAE	Humboldt	8/24/2020	15 - 48	No	DEC	24	0:00	0:00
200	RT	Planned Transmission Outage	PGAE	Humboldt	8/24/2020	28 - 30	No	INC	24	0:00	0:00
201	RT	Planned Transmission Outage	PGAE	Humboldt	8/25/2020	30 - 48	No	DEC	23	0:00	23:00
202	RT	Planned Transmission Outage	PGAE	Humboldt	8/25/2020	15 - 48	No	INC	24	0:00	0:00
203	RT	Planned Transmission Outage	PGAE	Humboldt	8/26/2020	14 - 60	No	DEC	24	0:00	0:00
204	RT	Planned Transmission Outage	PGAE	Humboldt	8/26/2020	45 - 60	No	INC	24	0:00	0:00
205	RT	Planned Transmission Outage	PGAE	Humboldt	8/27/2020	14 - 60	No	DEC	24	0:00	0:00
206	RT	Planned Transmission Outage	PGAE	Humboldt	8/27/2020	60	No	INC	24	0:00	0:00
207	RT	Planned Transmission Outage	PGAE	Humboldt	8/28/2020	14 - 60	No	DEC	24	0:00	0:00
208	RT	Planned Transmission Outage	PGAE	Humboldt	8/28/2020	60	No	INC	24	0:00	0:00
209	RT	Planned Transmission Outage	PGAE	Humboldt	8/29/2020	14 - 45	No	DEC	22	0:00	22:00
210	RT	Planned Transmission Outage	PGAE	Humboldt	8/29/2020	30 - 60	No	INC	24	0:00	0:00
211	RT	Planned Transmission Outage	PGAE	Humboldt	8/30/2020	28 - 30	No	DEC	6	15:00	21:00
212	RT	Planned Transmission Outage	PGAE	Humboldt	8/30/2020	28 - 45	No	INC	24	0:00	0:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
213	RT	Planned Transmission Outage	PGAE	Humboldt	8/31/2020	14 - 42	No	DEC	8	13:15	21:00
214	RT	Planned Transmission Outage	PGAE	Humboldt	8/31/2020	28 - 42	No	INC	24	0:00	0:00
215	RT	Planned Transmission Outage	PGAE	NA	8/21/2020	20	No	DEC	3	18:00	21:00
216	RT	Planned Transmission Outage	PGAE	NA	8/21/2020	20	No	INC	5	16:50	21:30
217	RT	Planned Transmission Outage	PGAE	Sierra	8/2/2020	22 - 50	No	INC	4	16:50	20:00
218	RT	Planned Transmission Outage	PGAE	Sierra	8/4/2020	42	No	INC	1	23:55	0:00
219	RT	Planned Transmission Outage	PGAE	Sierra	8/9/2020	25	No	DEC	1	17:30	18:00
220	RT	Planned Transmission Outage	PGAE	Stockton	8/10/2020	70 - 220	No	DEC	7	16:45	23:00
221	RT	Planned Transmission Outage	PGAE	Stockton	8/10/2020	80	No	INC	4	17:20	20:30
222	RT	Planned Transmission Outage	PGAE	Stockton	8/12/2020	145 - 200	No	DEC	5	18:10	23:00
223	RT	Planned Transmission Outage	SDGE	San Diego-IV	8/31/2020	21	No	INC	8	9:20	17:00
224	RT	Pump Management	PGAE	Fresno	8/12/2020	-3	No	DEC	2	9:15	10:30
225	RT	Ramping Capacity	PGAE	Bay Area	8/11/2020	24	No	DEC	2	17:10	18:30
226	RT	Ramping Capacity	PGAE	Fresno	8/24/2020	83	No	DEC	6	16:00	21:30
227	RT	Ramping Capacity	PGAE	Fresno	8/24/2020	83	No	INC	2	14:15	16:00
228	RT	Ramping Capacity	PGAE	NA	8/16/2020	54	No	INC	4	17:15	21:00
229	RT	Ramping Capacity	PGAE	NA	8/25/2020	48.95	No	DEC	5	16:00	21:00
230	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/1/2020	401	No	INC	6	16:00	22:00
231	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/3/2020	400 - 410	No	INC	9	14:00	22:30
232	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/12/2020	401	No	INC	5	16:30	21:00
233	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/13/2020	750	No	INC	6	15:00	21:00
234	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/14/2020	400	No	DEC	3	13:00	15:30
235	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/14/2020	400 - 750	No	INC	11	11:05	22:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
236	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/15/2020	410 - 741	No	DEC	5	17:00	22:00
237	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/15/2020	401 - 750	No	INC	15	7:50	22:15
238	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/16/2020	696	No	DEC	4	16:00	20:00
239	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/16/2020	401 - 750	No	INC	13	7:15	20:00
240	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/17/2020	401	No	INC	1	10:00	11:00
241	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/18/2020	401	No	INC	2	10:00	11:05
242	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/19/2020	401	No	INC	2	10:00	11:30
243	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/20/2020	401	No	DEC	4	16:45	20:00
244	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/20/2020	401	No	INC	2	20:00	22:00
245	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/22/2020	410	No	INC	8	13:10	21:00
246	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/23/2020	410	No	INC	9	13:15	22:00
247	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/24/2020	401 - 700	No	INC	9	13:00	22:00
248	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/25/2020	401	No	DEC	1	16:00	16:30
249	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/25/2020	401 - 700	No	INC	8	14:00	22:00
250	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/26/2020	300 - 401	No	DEC	7	15:15	22:00
251	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/26/2020	401 - 650	No	INC	7	15:00	22:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
252	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/27/2020	401	No	INC	5	17:00	22:00
253	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/28/2020	400	No	INC	6	16:45	22:00
254	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/29/2020	400	No	INC	6	16:45	22:00
255	RT	Ramping Capacity	SCE	Big Creek-Ventura	8/31/2020	400.1	No	INC	4	18:30	22:00
256	RT	Ramping Capacity	SCE	LA Basin	8/1/2020	190	No	DEC	3	17:00	20:00
257	RT	Ramping Capacity	SCE	LA Basin	8/1/2020	190 - 241	No	INC	5	17:00	22:00
258	RT	Ramping Capacity	SCE	LA Basin	8/2/2020	240	No	INC	5	17:00	22:00
259	RT	Ramping Capacity	SCE	LA Basin	8/3/2020	190 - 241	No	INC	6	16:00	22:00
260	RT	Ramping Capacity	SCE	LA Basin	8/4/2020	190	No	INC	6	16:00	22:00
261	RT	Ramping Capacity	SCE	LA Basin	8/12/2020	190	No	INC	6	15:00	21:00
262	RT	Ramping Capacity	SCE	LA Basin	8/13/2020	321	No	DEC	4	16:00	20:00
263	RT	Ramping Capacity	SCE	LA Basin	8/13/2020	321 - 478	No	INC	6	16:00	22:00
264	RT	Ramping Capacity	SCE	LA Basin	8/14/2020	240 - 649	No	DEC	10	13:00	22:30
265	RT	Ramping Capacity	SCE	LA Basin	8/14/2020	240 - 479	No	INC	13	10:45	23:45
266	RT	Ramping Capacity	SCE	LA Basin	8/15/2020	20 - 479	No	DEC	5	16:00	21:00
267	RT	Ramping Capacity	SCE	LA Basin	8/15/2020	65 - 479	No	INC	10	12:00	22:00
268	RT	Ramping Capacity	SCE	LA Basin	8/16/2020	62.5 - 225	No	DEC	5	16:00	20:45
269	RT	Ramping Capacity	SCE	LA Basin	8/16/2020	42 - 478	No	INC	9	12:00	20:45
270	RT	Ramping Capacity	SCE	LA Basin	8/17/2020	65 - 190	No	DEC	8	13:00	21:00
271	RT	Ramping Capacity	SCE	LA Basin	8/17/2020	65 - 241	No	INC	12	10:00	22:00
272	RT	Ramping Capacity	SCE	LA Basin	8/18/2020	240	No	INC	2	10:00	11:20

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
273	RT	Ramping Capacity	SCE	LA Basin	8/19/2020	240	No	INC	2	10:00	11:30
274	RT	Ramping Capacity	SCE	LA Basin	8/20/2020	190 - 194	No	DEC	7	14:00	21:00
275	RT	Ramping Capacity	SCE	LA Basin	8/20/2020	190 - 194	No	INC	9	5:45	14:00
276	RT	Ramping Capacity	SCE	LA Basin	8/21/2020	190 - 194	No	DEC	4	16:00	20:00
277	RT	Ramping Capacity	SCE	LA Basin	8/21/2020	104 - 194	No	INC	7	15:15	21:30
278	RT	Ramping Capacity	SCE	LA Basin	8/22/2020	190 - 194	No	DEC	4	16:00	20:00
279	RT	Ramping Capacity	SCE	LA Basin	8/22/2020	104 - 300	No	INC	8	13:05	21:00
280	RT	Ramping Capacity	SCE	LA Basin	8/23/2020	104 - 439	No	INC	8	13:15	21:00
281	RT	Ramping Capacity	SCE	LA Basin	8/24/2020	190 - 311	No	DEC	6	14:00	20:00
282	RT	Ramping Capacity	SCE	LA Basin	8/24/2020	190 - 466	No	INC	9	13:00	22:00
283	RT	Ramping Capacity	SCE	LA Basin	8/25/2020	190 - 241	No	DEC	8	14:00	22:00
284	RT	Ramping Capacity	SCE	LA Basin	8/25/2020	190 - 231	No	INC	2	20:00	22:00
285	RT	Ramping Capacity	SCE	LA Basin	8/26/2020	190 - 241	No	DEC	6	15:00	21:00
286	RT	Ramping Capacity	SCE	LA Basin	8/26/2020	190 - 466	No	INC	6	16:30	22:00
287	RT	Ramping Capacity	SCE	LA Basin	8/27/2020	240	No	DEC	5	17:00	22:00
288	RT	Ramping Capacity	SCE	LA Basin	8/27/2020	240	No	INC	1	21:00	22:00
289	RT	Ramping Capacity	SDGE	San Diego-IV	8/25/2020	212	No	DEC	7	14:00	21:00
290	RT	Reliability Assessment	PG&E	Bay Area	8/14/2020	22	No	INC	1	15:40	16:00
291	RT	Reliability Assessment	PG&E	Bay Area	8/16/2020	22 - 130	No	DEC	4	17:00	20:45

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
292	RT	Reliability Assessment	PGAE	Bay Area	8/16/2020	22 - 130	No	INC	7	14:25	20:45
293	RT	Reliability Assessment	PGAE	Fresno	8/14/2020	70	No	DEC	2	18:00	20:00
294	RT	Reliability Assessment	PGAE	Fresno	8/14/2020	81 - 90	No	INC	2	16:20	18:00
295	RT	Reliability Assessment	PGAE	Fresno	8/16/2020	40	No	DEC	5	16:25	20:45
296	RT	Reliability Assessment	PGAE	Fresno	8/16/2020	70 - 96	No	INC	7	14:25	21:00
297	RT	Reliability Assessment	PGAE	Fresno	8/17/2020	400	No	INC	1	19:50	20:45
298	RT	Reliability Assessment	PGAE	Fresno	8/18/2020	10	No	INC	1	19:20	19:25
299	RT	Reliability Assessment	PGAE	Fresno	8/21/2020	70	No	INC	6	2:15	8:00
300	RT	Reliability Assessment	PGAE	Fresno	8/26/2020	0	No	INC	1	13:30	13:45
301	RT	Reliability Assessment	PGAE	Kern	8/10/2020	32	No	INC	1	15:25	16:00
302	RT	Reliability Assessment	PGAE	Kern	8/15/2020	32	No	INC	3	11:00	14:00
303	RT	Reliability Assessment	PGAE	Kern	8/18/2020	12	No	DEC	6	11:30	17:00
304	RT	Reliability Assessment	PGAE	Kern	8/18/2020	12	No	INC	3	17:00	20:00
305	RT	Reliability Assessment	PGAE	Kern	8/25/2020	32	No	INC	2	22:00	23:30
306	RT	Reliability Assessment	PGAE	Kern	8/26/2020	32	No	INC	2	21:50	23:00
307	RT	Reliability Assessment	PGAE	NA	8/13/2020	10 - 350	No	DEC	4	14:20	18:00
308	RT	Reliability Assessment	PGAE	NA	8/13/2020	10	No	INC	2	18:00	20:00
309	RT	Reliability Assessment	PGAE	NA	8/14/2020	15	No	DEC	7	11:00	18:00
310	RT	Reliability Assessment	PGAE	NA	8/14/2020	15	No	INC	2	18:00	20:00
311	RT	Reliability Assessment	PGAE	NA	8/15/2020	15	No	INC	4	15:05	19:00
312	RT	Reliability Assessment	PGAE	NA	8/16/2020	130	No	DEC	7	14:25	20:45
313	RT	Reliability Assessment	PGAE	NA	8/18/2020	307.1	No	DEC	1	5:25	6:00
314	RT	Reliability Assessment	PGAE	NA	8/18/2020	14	No	INC	9	11:25	20:00
315	RT	Reliability Assessment	PGAE	NCNB	8/17/2020	25 - 65	No	DEC	10	7:40	17:15
316	RT	Reliability Assessment	PGAE	NCNB	8/19/2020	24 - 80	No	DEC	11	13:30	0:00
317	RT	Reliability Assessment	PGAE	NCNB	8/19/2020	42 - 46	No	INC	6	17:10	23:00
318	RT	Reliability Assessment	PGAE	NCNB	8/20/2020	57 - 80	No	DEC	22	0:00	21:45
319	RT	Reliability Assessment	PGAE	NCNB	8/20/2020	77	No	INC	3	18:45	21:45
320	RT	Reliability Assessment	PGAE	Sierra	8/1/2020	42	No	INC	8	0:00	8:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
321	RT	Reliability Assessment	PGAE	Sierra	8/2/2020	20	No	INC	2	22:20	0:00
322	RT	Reliability Assessment	PGAE	Sierra	8/3/2020	20	No	DEC	3	17:00	20:00
323	RT	Reliability Assessment	PGAE	Sierra	8/3/2020	20 - 42	Yes	INC	24	0:00	0:00
324	RT	Reliability Assessment	PGAE	Sierra	8/4/2020	20 - 42	Yes	INC	24	0:00	23:55
325	RT	Reliability Assessment	PGAE	Sierra	8/5/2020	40 - 42	No	INC	23	0:00	23:00
326	RT	Reliability Assessment	PGAE	Sierra	8/6/2020	42	No	INC	7	16:00	23:00
327	RT	Reliability Assessment	PGAE	Sierra	8/7/2020	20	No	INC	9	15:05	23:30
328	RT	Reliability Assessment	PGAE	Sierra	8/8/2020	20	No	DEC	2	18:55	20:00
329	RT	Reliability Assessment	PGAE	Sierra	8/8/2020	20	No	INC	7	17:00	0:00
330	RT	Reliability Assessment	PGAE	Sierra	8/9/2020	20	No	DEC	4	17:40	21:00
331	RT	Reliability Assessment	PGAE	Sierra	8/9/2020	20 - 47	No	INC	24	0:00	0:00
332	RT	Reliability Assessment	PGAE	Sierra	8/10/2020	20	No	DEC	4	17:00	21:00
333	RT	Reliability Assessment	PGAE	Sierra	8/10/2020	20 - 47	No	INC	24	0:00	0:00
334	RT	Reliability Assessment	PGAE	Sierra	8/11/2020	20	No	DEC	4	17:10	21:00
335	RT	Reliability Assessment	PGAE	Sierra	8/11/2020	20 - 47	No	INC	24	0:00	0:00
336	RT	Reliability Assessment	PGAE	Sierra	8/12/2020	20 - 40	No	DEC	5	17:00	22:00
337	RT	Reliability Assessment	PGAE	Sierra	8/12/2020	20 - 42	No	INC	24	0:00	0:00
338	RT	Reliability Assessment	PGAE	Sierra	8/13/2020	20 - 30	No	DEC	4	17:00	21:00
339	RT	Reliability Assessment	PGAE	Sierra	8/13/2020	20 - 45	No	INC	24	0:00	0:00
340	RT	Reliability Assessment	PGAE	Sierra	8/14/2020	20 - 42	No	DEC	14	7:00	21:00
341	RT	Reliability Assessment	PGAE	Sierra	8/14/2020	5 - 45	No	INC	24	0:00	0:00
342	RT	Reliability Assessment	PGAE	Sierra	8/15/2020	35 - 42	No	DEC	11	12:00	23:00
343	RT	Reliability Assessment	PGAE	Sierra	8/15/2020	8 - 42	No	INC	24	0:00	0:00
344	RT	Reliability Assessment	PGAE	Sierra	8/16/2020	20	No	DEC	6	15:00	21:00
345	RT	Reliability Assessment	PGAE	Sierra	8/16/2020	20 - 42	Yes	INC	24	0:00	0:00
346	RT	Reliability Assessment	PGAE	Sierra	8/17/2020	11 - 41	No	DEC	8	13:00	21:00
347	RT	Reliability Assessment	PGAE	Sierra	8/17/2020	20 - 47	No	INC	24	0:00	0:00
348	RT	Reliability Assessment	PGAE	Sierra	8/18/2020	7 - 55	No	DEC	8	14:00	22:00
349	RT	Reliability Assessment	PGAE	Sierra	8/18/2020	7 - 55	No	INC	18	6:40	0:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
350	RT	Reliability Assessment	PGAE	Sierra	8/19/2020	20 - 30	No	DEC	7	15:20	22:00
351	RT	Reliability Assessment	PGAE	Sierra	8/19/2020	20 - 47	Yes	INC	24	0:00	0:00
352	RT	Reliability Assessment	PGAE	Sierra	8/20/2020	20	Yes	INC	2	0:00	2:00
353	RT	Reliability Assessment	PGAE	Sierra	8/21/2020	20	No	INC	5	17:40	22:15
354	RT	Reliability Assessment	PGAE	Sierra	8/22/2020	18 - 20	No	DEC	10	14:00	0:00
355	RT	Reliability Assessment	PGAE	Sierra	8/22/2020	18 - 20	No	INC	12	12:40	0:00
356	RT	Reliability Assessment	PGAE	Sierra	8/23/2020	18	No	DEC	2	0:00	2:00
357	RT	Reliability Assessment	PGAE	Sierra	8/23/2020	20 - 40	Yes	INC	23	0:00	23:00
358	RT	Reliability Assessment	PGAE	Sierra	8/24/2020	20	No	DEC	2	19:00	21:00
359	RT	Reliability Assessment	PGAE	Sierra	8/24/2020	20	No	INC	3	21:00	0:00
360	RT	Reliability Assessment	PGAE	Sierra	8/25/2020	20	No	DEC	4	17:00	21:00
361	RT	Reliability Assessment	PGAE	Sierra	8/25/2020	20	No	INC	24	0:00	0:00
362	RT	Reliability Assessment	PGAE	Sierra	8/26/2020	20	No	INC	24	0:00	0:00
363	RT	Reliability Assessment	PGAE	Sierra	8/27/2020	20	No	DEC	2	18:50	20:00
364	RT	Reliability Assessment	PGAE	Sierra	8/27/2020	20	No	INC	4	20:00	0:00
365	RT	Reliability Assessment	PGAE	Sierra	8/28/2020	20	No	DEC	3	17:00	20:00
366	RT	Reliability Assessment	PGAE	Sierra	8/28/2020	20	Yes	INC	22	0:00	22:00
367	RT	Reliability Assessment	PGAE	Sierra	8/29/2020	20	No	INC	2	21:10	23:00
368	RT	Reliability Assessment	PGAE	Sierra	8/30/2020	20	No	DEC	2	18:00	20:00
369	RT	Reliability Assessment	PGAE	Sierra	8/30/2020	20	No	INC	9	15:55	0:00
370	RT	Reliability Assessment	PGAE	Sierra	8/31/2020	20	No	DEC	1	18:00	19:00
371	RT	Reliability Assessment	PGAE	Sierra	8/31/2020	20	No	INC	8	14:20	22:00
372	RT	Reliability Assessment	PGAE	Stockton	8/1/2020	140	No	DEC	8	15:00	23:00
373	RT	Reliability Assessment	PGAE	Stockton	8/2/2020	192 - 225	No	DEC	8	16:45	0:00
374	RT	Reliability Assessment	PGAE	Stockton	8/3/2020	195	No	DEC	2	0:00	2:00
375	RT	Reliability Assessment	PGAE	Stockton	8/13/2020	68	No	INC	1	14:55	15:45
376	RT	Reliability Assessment	PGAE	Stockton	8/16/2020	21	No	INC	7	14:25	20:45

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
377	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/19/2020	65 - 401	No	INC	2	22:00	0:00
378	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/20/2020	27.49 - 401	No	DEC	4	16:00	20:00
379	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/20/2020	401	No	INC	16	0:00	16:00
380	RT	Reliability Assessment	SCE	Big Creek-Ventura	8/22/2020	410	No	INC	8	13:00	21:00
381	RT	Reliability Assessment	SCE	LA Basin	8/14/2020	330	No	DEC	1	11:00	11:05
382	RT	Reliability Assessment	SCE	LA Basin	8/14/2020	27 - 204	No	INC	11	11:30	22:00
383	RT	Reliability Assessment	SCE	LA Basin	8/16/2020	18 - 48.35	No	DEC	6	15:00	20:45
384	RT	Reliability Assessment	SCE	LA Basin	8/16/2020	18 - 48.35	No	INC	7	14:30	20:45
385	RT	Reliability Assessment	SCE	LA Basin	8/19/2020	36	No	DEC	1	22:40	23:00
386	RT	Reliability Assessment	SCE	LA Basin	8/19/2020	20 - 334	No	INC	2	22:00	0:00
387	RT	Reliability Assessment	SCE	LA Basin	8/20/2020	104 - 334	No	DEC	14	6:00	20:00
388	RT	Reliability Assessment	SCE	LA Basin	8/20/2020	104 - 334	No	INC	17	0:00	17:00
389	RT	Reliability Assessment	SCE	LA Basin	8/21/2020	0	No	INC	1	5:00	5:30
390	RT	Reliability Assessment	SCE	NA	8/16/2020	425 - 474	No	DEC	10	13:05	23:00
391	RT	Reliability Assessment	SCE	NA	8/16/2020	425	No	INC	1	23:00	0:00
392	RT	Reliability Assessment	SCE	NA	8/17/2020	460 - 480	No	DEC	12	12:00	0:00
393	RT	Reliability Assessment	SCE	NA	8/17/2020	480	No	INC	2	10:50	12:00
394	RT	Reliability Assessment	SCE	NA	8/18/2020	280.1 - 475	No	DEC	19	5:25	0:00
395	RT	Reliability Assessment	SCE	NA	8/18/2020	440 - 470	No	INC	11	0:00	11:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
396	RT	Reliability Assessment	SCE	NA	8/19/2020	420 - 460	No	DEC	17	6:00	23:00
397	RT	Reliability Assessment	SCE	NA	8/19/2020	420 - 460	No	INC	24	0:00	0:00
398	RT	Reliability Assessment	SCE	NA	8/20/2020	400 - 425	No	DEC	13	11:50	0:00
399	RT	Reliability Assessment	SCE	NA	8/21/2020	400	No	DEC	24	0:00	0:00
400	RT	Reliability Assessment	SCE	NA	8/22/2020	400 - 425	No	DEC	23	0:00	23:00
401	RT	Reliability Assessment	SCE	NA	8/22/2020	425	No	INC	20	4:45	0:00
402	RT	Reliability Assessment	SCE	NA	8/23/2020	425 - 460	No	DEC	10	13:00	23:00
403	RT	Reliability Assessment	SCE	NA	8/23/2020	425	No	INC	24	0:00	0:00
404	RT	Reliability Assessment	SCE	NA	8/24/2020	410 - 450	No	DEC	24	0:00	0:00
405	RT	Reliability Assessment	SCE	NA	8/24/2020	425	No	INC	21	2:00	22:30
406	RT	Reliability Assessment	SCE	NA	8/25/2020	410	No	DEC	24	0:00	0:00
407	RT	Reliability Assessment	SCE	NA	8/25/2020	410	No	INC	9	1:00	10:00
408	RT	Reliability Assessment	SCE	NA	8/26/2020	425 - 450	No	DEC	9	13:00	22:00
409	RT	Reliability Assessment	SCE	NA	8/26/2020	425 - 450	No	INC	12	12:30	0:00
410	RT	Reliability Assessment	SCE	NA	8/27/2020	410 - 425	No	DEC	11	13:00	0:00
411	RT	Reliability Assessment	SCE	NA	8/27/2020	425	No	INC	13	0:00	13:00
412	RT	Reliability Assessment	SCE	NA	8/28/2020	410 - 435	No	DEC	22	0:00	22:00
413	RT	Reliability Assessment	SCE	NA	8/28/2020	410 - 435	No	INC	16	8:00	0:00
414	RT	Reliability Assessment	SCE	NA	8/29/2020	435 - 445	No	DEC	6	17:00	23:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
415	RT	Reliability Assessment	SCE	NA	8/29/2020	435 - 445	No	INC	24	0:00	0:00
416	RT	Reliability Assessment	SCE	NA	8/30/2020	445	No	DEC	7	17:00	0:00
417	RT	Reliability Assessment	SCE	NA	8/30/2020	445	No	INC	17	0:00	17:00
418	RT	Reliability Assessment	SCE	NA	8/31/2020	440 - 445	No	DEC	24	0:00	0:00
419	RT	Reliability Assessment	SCE	NA	8/31/2020	440 - 445	No	INC	15	2:00	17:00
420	RT	Reliability Assessment	SDGE	San Diego-IV	8/19/2020	24 - 96	No	INC	2	22:00	0:00
421	RT	Reverse Commitment Instruction	SCE	LA Basin	8/15/2020	47 - 96	No	INC	2	18:05	19:30
422	RT	Software Limitation	PGAE	Bay Area	8/3/2020	120	No	INC	1	14:10	15:00
423	RT	Software Limitation	PGAE	Bay Area	8/20/2020	0	No	DEC	1	20:30	20:45
424	RT	Software Limitation	PGAE	Bay Area	8/28/2020	120	No	INC	1	16:35	17:30
425	RT	Software Limitation	PGAE	Fresno	8/3/2020	14 - 35	No	INC	1	14:10	15:00
426	RT	Software Limitation	PGAE	Fresno	8/14/2020	14 - 35	No	INC	1	14:55	15:50
427	RT	Software Limitation	PGAE	Fresno	8/28/2020	83	No	DEC	1	17:00	17:30
428	RT	Software Limitation	PGAE	Fresno	8/28/2020	14 - 140.52	No	INC	1	16:35	17:30
429	RT	Software Limitation	SCE	Big Creek-Ventura	8/3/2020	47.1	No	INC	1	14:10	15:00
430	RT	Software Limitation	SCE	Big Creek-Ventura	8/14/2020	16 - 47.1	No	INC	1	14:55	15:50
431	RT	Software Limitation	SCE	Big Creek-Ventura	8/15/2020	0	No	INC	1	0:10	1:05
432	RT	Software Limitation	SCE	Big Creek-Ventura	8/21/2020	0	No	INC	1	21:25	22:25
433	RT	Software Limitation	SCE	Big Creek-Ventura	8/28/2020	16 - 33	No	INC	1	16:35	17:30
434	RT	Software Limitation	SCE	Big Creek-Ventura	8/30/2020	-177	No	INC	5	6:30	11:00
435	RT	Software Limitation	SCE	LA Basin	8/3/2020	5 - 58.38	No	INC	1	14:10	15:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
436	RT	Software Limitation	SCE	LA Basin	8/12/2020	0	No	INC	1	23:45	0:00
437	RT	Software Limitation	SCE	LA Basin	8/13/2020	0	No	INC	1	0:00	0:45
438	RT	Software Limitation	SCE	LA Basin	8/14/2020	25 - 46.42	No	DEC	1	14:55	15:50
439	RT	Software Limitation	SCE	LA Basin	8/14/2020	5 - 46.42	No	INC	1	14:55	15:50
440	RT	Software Limitation	SCE	LA Basin	8/15/2020	0	No	INC	24	0:00	23:20
441	RT	Software Limitation	SCE	LA Basin	8/17/2020	147	No	INC	1	23:30	0:00
442	RT	Software Limitation	SCE	LA Basin	8/21/2020	0	No	DEC	1	18:35	19:05
443	RT	Software Limitation	SCE	LA Basin	8/28/2020	45.38 - 45.58	No	DEC	1	17:00	17:30
444	RT	Software Limitation	SCE	LA Basin	8/28/2020	0 - 58.38	No	INC	21	0:00	20:30
445	RT	Software Limitation	SCE	LA Basin	8/29/2020	0	No	INC	12	12:00	0:00
446	RT	Software Limitation	SCE	LA Basin	8/30/2020	0	No	INC	5	0:00	4:05
447	RT	Software Limitation	SCE	LA Basin	8/31/2020	0	No	INC	1	16:25	16:55
448	RT	Software Limitation	SDGE	San Diego-IV	8/3/2020	30	No	INC	1	14:10	15:00
449	RT	Software Limitation	SDGE	San Diego-IV	8/12/2020	161	No	DEC	1	17:05	18:00
450	RT	Software Limitation	SDGE	San Diego-IV	8/14/2020	24.25	No	DEC	1	15:00	15:50
451	RT	Software Limitation	SDGE	San Diego-IV	8/14/2020	24.25 - 53.97	No	INC	1	14:55	15:50
452	RT	Software Limitation	SDGE	San Diego-IV	8/17/2020	0	No	DEC	1	20:15	20:45
453	RT	Software Limitation	SDGE	San Diego-IV	8/28/2020	24.87 - 30	No	INC	1	16:35	17:30
454	RT	Unit Testing	PGAE	Bay Area	8/12/2020	139	No	DEC	3	18:25	21:00
455	RT	Unit Testing	PGAE	Bay Area	8/13/2020	180	No	INC	2	22:50	0:00
456	RT	Unit Testing	PGAE	Bay Area	8/14/2020	180	No	INC	1	0:00	0:30
457	RT	Unit Testing	PGAE	Bay Area	8/25/2020	549	No	INC	1	18:50	19:10
458	RT	Unit Testing	PGAE	Bay Area	8/26/2020	196	No	INC	1	8:20	8:55
459	RT	Unit Testing	PGAE	Fresno	8/22/2020	83	No	INC	2	16:40	17:45
460	RT	Unit Testing	PGAE	Fresno	8/26/2020	46 - 47	No	INC	2	18:40	20:00

Number	Market Type	Reason	Location	Local Reliability Area	Trade Date	MW	Commitment	INC_DEC	Hours	Begin Time	End Time
461	RT	Unit Testing	PGAE	Fresno	8/28/2020	109 - 119	No	INC	1	9:00	9:40
462	RT	Unit Testing	PGAE	NA	8/25/2020	5	No	INC	1	18:30	19:00
463	RT	Unit Testing	PGAE	Stockton	8/1/2020	52	No	INC	1	14:20	14:45
464	RT	Unit Testing	SCE	Big Creek-Ventura	8/13/2020	70	No	INC	2	18:00	20:00
465	RT	Unit Testing	SCE	LA Basin	8/18/2020	100 - 300	No	INC	4	9:30	13:00
466	RT	Unit Testing	SCE	LA Basin	8/20/2020	95.07	No	INC	1	23:15	0:00
467	RT	Unit Testing	SCE	LA Basin	8/27/2020	345	No	DEC	1	12:25	12:30
468	RT	Unit Testing	SCE	LA Basin	8/27/2020	25	No	INC	1	10:45	11:00
469	RT	Unit Testing	SCE	LA Basin	8/28/2020	140	No	INC	1	8:00	8:15
470	RT	Unit Testing	SCE	LA Basin	8/31/2020	0 - 333	No	INC	2	0:15	2:00
471	RT	Unit Testing	SDGE	San Diego-IV	8/1/2020	21	No	DEC	2	19:05	20:55
472	RT	Unit Testing	SDGE	San Diego-IV	8/5/2020	2	No	INC	1	13:10	13:55
473	RT	Unit Testing	SDGE	San Diego-IV	8/21/2020	6.18	No	INC	1	21:35	22:00
474	RT	Unit Testing	SDGE	San Diego-IV	8/25/2020	317	No	INC	1	20:40	21:00
475	RT	Unit Testing	SDGE	San Diego-IV	8/26/2020	23	No	INC	1	22:25	23:00
476	RT	Unplanned Outage	SCE	LA Basin	8/17/2020	6	No	DEC	1	20:40	21:00
477	RT	Unplanned Outage	SCE	LA Basin	8/17/2020	6	No	INC	1	21:00	22:00
478	RT	Voltage Support	PGAE	Fresno	8/26/2020	0	No	INC	1	13:00	13:50
479	RT	Voltage Support	SCE	NA	8/6/2020	125	No	INC	22	2:00	0:00
480	RT	Voltage Support	SCE	NA	8/7/2020	125	No	DEC	19	0:00	19:00
481	RT	Voltage Support	SCE	NA	8/7/2020	125	No	INC	4	8:00	12:00

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