California Independent
System Operator Corporation

June 15, 2009

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

Re: California Independent System Operator Corporation
Docket Nos. ER06-615-___, ER07-1257-___, ER08-1178-___, and EL08-88-___
Exceptional Dispatch and Market Disruption Reports

Dear Secretary Bose:

The California Independent System Operator Corporation ("ISO") hereby submits the following periodic reports in these proceedings: (1) the ISO's report regarding Exceptional Dispatches that occurred during the time period from April 16 through May 15, 2009; and (2) the ISO's report regarding Market Disruptions that occurred during that same time period.

Please contact the undersigned with any questions.

Respectfully submitted,

/s/ Sidney M. Davies

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Exceptional Dispatch Report
April 16 to May 15, 2009

June 15, 2009

ISO Market Services

I. Background

A. The ISO's Exceptional Dispatch Reporting

Under Section 34.9 of the CAISO Tariff, the ISO can issue Exceptional Dispatch instructions – *i.e.*, dispatches issued outside the standard dispatches issued pursuant to the ISO's market software – for specified purposes.[1]

In an order issued in Docket Nos. ER08-1178-000 and EL08-88-000 on February 20, 2009,[2] the Commission conditionally accepted in part and rejected in part a revised Exceptional Dispatch proposal filed by the ISO, effective upon the implementation of the ISO's Market Redesign and Technology Upgrade ("MRTU").[3] Also, in response to comments submitted by parties regarding what obligations the ISO should be under to report Exceptional Dispatches, the Commission directed the ISO to file, on compliance, tariff provisions requiring the ISO to submit reports that detail the frequency, volume, costs, causes, and degree of mitigation of Exceptional Dispatches.[4]

Pursuant to the directives in the February 20 Order, the ISO submitted a compliance filing on March 23, 2009, that included new Section 34.9.4 of the CAISO Tariff. Section 34.9.4 requires the ISO to submit reports on the "frequency, volume, costs, causes, and degree of mitigation of Exceptional Dispatches."[5] Also, on April 28, 2009, the ISO submitted an answer to comments and protests on the March 23 compliance filing ("April 28 Answer"). In the April 28 Answer, the ISO stated that it intends to provide the following details in its Exceptional Dispatch reports:

- The frequency of Exceptional Dispatches (*i.e*., the ISO will identify each Exceptional Dispatch and the date or dates on which it occurred);
- The gross volume in MW of the Exceptional Dispatch;
- The cause of the Exceptional Dispatch (*e.g*., transmission outages on a particular line) and the reason that an Exceptional Dispatch was necessary;

[1] CAISO Tariff, Section 34.9; *id.*, Appendix A, definition of Exceptional Dispatch.

[2] *California Independent System Operator Corp.*, 126 FERC ¶ 61,150 (2009) ("February 20 Order").

[3] MRTU became effective on March 31, 2009, for the Day-Ahead Market for the April 1, 2009, Trading Day.

[4] February 20 Order at P 263.

[5] Commission action on the compliance filing is pending.

- The cost of the Exceptional Dispatch, which would include Exceptional Dispatch Energy, Excess Cost Payments for Exceptional Dispatches, Exceptional Dispatch ICPM payments, and supplemental revenues;

- The degree of mitigation achieved by the Exceptional Dispatch, *i.e*., whether any Exceptional Dispatch Bids are mitigated;

- The location of the exceptionally dispatched resources at the level of Local Reliability Area if relevant and applicable and to the extent such information is readily determinable; and

- The market in which the Exceptional Dispatch occurred.[6]

B. Timing of the ISO's Exceptional Dispatch Reports

In the February 20 Order, the Commission directed the ISO to file its first report on Exceptional Dispatches within 60 days of the implementation of MRTU and to file each subsequent Exceptional Dispatch report every 60 days thereafter.[7] The ISO filed its first Exceptional Dispatch report on May 15, 2009, as corrected on May 18, 2009 ("May 2009 Report").

The May 2009 Report concerned Exceptional Dispatches that occurred during the first 15 days after the new market implementation (*i.e.*, the time period from April 1 through April 15, 2009).[8] As the ISO explained both in the April 28 Answer and in the May 2009 Report, the ISO proposes to file each subsequent report on a monthly basis rather than every 60 days. Filing on a monthly basis means that each subsequent report will be submitted well within the 60-day time period stated in the February 20 Order. Also, in the April 28 Answer and the May 2009 Report, the ISO explained that it proposes to file its monthly reports on the fifteenth day of each month to cover the time period ending on the fifteenth day of the prior month, thus giving the ISO 30 days to analyze and validate the data and draft the report. As discussed below, however, the ISO is unable at this time to analyze and validate all of the data in time to include in the monthly reports and will republish all data for each reporting period in the Exceptional Dispatch report that includes the cost data. Consistent with these proposals, the ISO's second report is being filed on June 15, 2009, and concerns Exceptional Dispatches that occurred from April 16 through May 15, 2009.[9]

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[6] April 28 Answer at 9-10.

[7] February 20 Order at P 263.

[8] The May 2009 Report also included a report on Market Disruptions that occurred during that same time period. See the discussion in the Market Disruption report submitted concurrently with this report.

[9] April 28 Answer at 7-8; May 2009 Report at 1-2. If the Commission denies any of the proposals, the ISO will modify its future reporting of Exceptional Dispatches in accordance with the Commission's directives

II. Report on Exceptional Dispatches Occurring from April 16 Through May 15, 2009

The ISO's report on Exceptional Dispatches that occurred during the time period from April 16 through May 15, 2009, is provided in Attachment A and Figure 1, below. Except as noted, the report provides all available Exceptional Dispatch information specified in Section 34.9.4 and the April 28 Answer.[10] The two chief exceptions concern the cost data and degree of mitigation. The first exception is that, as was the case with the May 2009 Report, the instant report does not include any cost data. As was explained in the April 28 Answer, until the ISO implements payment acceleration, settlement quality data for the Exceptional Dispatches discussed in a particular report will not be available in time to be included in that same report.[11] The ISO intends to provide cost data for the April 1-April 15 time period in its July 2009 Exceptional Dispatch report. At that time, the ISO will republish all data for this reporting period. Similarly, the ISO intends to publish cost data for the April 16-May 15 time period in its August 2009 Exceptional Dispatch report. Again, the ISO will republish all data for the April 16-May 15 reporting period. The second exception is that the instant report does not list the "degree of mitigation," because that information is really only relevant as of Trading Days occurring on and after August 1, 2009, when only Bids for non-competitive constraints and Delta Dispatch will be mitigated. For the first four months of operations under the new market (*i.e.*, through the end of July), all Bids that are settled at the higher of Bid price, Resource Specific Interval LMP, or Default Energy Bid price are subject to Bid mitigation other than for decremental Exceptional Dispatches.[12]

Attachment A includes an entry for each Exceptional Dispatch that occurred for Operating Days April 16 through May 15. Each entry also indicates: (1) the date of the Exceptional Dispatch; (2) the location of the resource by Participating Transmission Owner Service Area; (3) the market in which the Exceptional Dispatch occurred (Day-Ahead vs. Real-Time); and (4) the reason for the Exceptional Dispatch. Note that Exceptional Dispatches that are required due to failure of the Hour-Ahead Scheduling Process ("HASP") are considered to be Real-Time dispatches. Many of the reasons listed are self-explanatory and include transmission or generator outages, over-generation and resource ramping constraints, and references to specific Operating Procedures (*e.g.*,

[10] See Section I.A, above.

[11] April 28 Answer at 10 n.22. Once payment acceleration is in place, the cost data for Exceptional Dispatches – based on estimated meter data – should be available in time to be included in the same report. *Id.*

[12] Section 34.9.1 of the CAISO Tariff allows the ISO to accept a Bid from a Non-Dynamic System Resource, in which case the ISO will pay the resource as Bid without mitigation and without triggering any supplemental compensation in the form of an Interim Capacity Procurement Mechanism ("ICPM") payment or supplemental revenues.

Operating Procedures T-138 and G-219).[13] The reason labeled "Software Limitation" includes a number of different instances where ISO Operators issued Exceptional Dispatches to augment or modify market results such as: (1) to keep a resource on that had previously had a market dispatch to shut down or was already subject to an Exceptional Dispatch but the software was instructing the resource to go to zero; (2) to reverse a market instruction to a unit that was either off or on to stay off or on when the software was trying to give an opposite instruction; and (3) to keep a unit off or on to manage the unit's start-up and shut down requirements. The need for some of these Exceptional Dispatches has led to recognition of variances that are being addressed. Other Exceptional Dispatches in this category relate to the fact that the software does not consider a long enough time horizon to manage resources' operating constraints. In the latter case, the ISO has already initiated a project to enhance the market software.

For the reporting period April 16 though May 15, Appendix A identifies 828 instances of Exceptional Dispatch, which is a sharp increase in frequency above the 218 instances of Exceptional Dispatch during the first 15 days of April. Of the 828 Exceptional Dispatches, 683 were dispatches for generators and 145 for interties. Figure 1 shows the total MWh volume of incremental and decremental Exceptional Dispatches by day. The volume includes capacity committed through Exceptional Dispatch commitments as well as Exceptional Dispatches of incremental and decremental energy. Although the ISO is confident that it has captured substantially all of the occurrences of Exceptional Dispatch for the April 16 through May 15 time frame, it was unable to capture a substantial portion of the MW volume of Exceptional Dispatches of intertie resources and Day-Ahead commitments in time for this report. For intertie resources, the ISO has substantially captured the MW volume through April 25. For Day-Ahead commitments, the entire reporting period is affected. The ISO is developing procedures for this information to be captured in a more timely manner in the future.

Figure 2 provides a summary of the frequency of Exceptional Dispatch for the period broken out by Day-Ahead Market vs. Real-Time Market. Here a declining trend in the occurrences of Real-Time Exceptional Dispatch can be clearly seen, and to a lesser extent, the frequency of Day-Ahead Exceptional Dispatch has also declined during this period. The use of Exceptional Dispatch peaked on April 28, which was the peak load day for the month of April. On that day total demand peaked above 35,000 MW which is unusual high for springtime.

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

The ISO acknowledges that it has received comments on the May 2009 Report in which parties argue that the May 2009 Report does not provide all of the information required by the February 20 Order and Section 34.9.4 or listed in the April 28 Answer. The ISO plans to make a timely answer to those comments. However, because the May 2009 Report contains the same categories of information on Exceptional Dispatches as the instant report, the ISO believes it is appropriate to reiterate here that it believes its Exceptional Dispatch reports fully satisfy the requirements of the February 20 Order and Section 34.9.4 and provide the information the ISO committed to supply in the April 28 Answer (other than cost data and the degree of mitigation of Exceptional Dispatches, the deferral of which is justified for the reasons discussed above). Specifically, the ISO's reports include: the frequency of Exceptional Dispatches (*i.e.*, each Exceptional Dispatch is identified and listed by the date or dates on which it occurred); the gross volume of the Exceptional Dispatch (expressed in MWh rather than in MW, but both are equally useful yardsticks for measuring gross volume); the cause of the Exceptional Dispatch and the reason that an Exceptional Dispatch was necessary; the location of the exceptionally dispatched resources, where relevant and applicable and to the extent that information is readily determinable; and the market in which the Exceptional Dispatch occurred. This is all the relevant information that the February 20 Order and Section 34.9.4 require and that the ISO committed to provide in the April 28 Answer.

The ISO has endeavored to develop a comprehensive report itemizing all Exceptional Dispatches occurring in the period from April 16 to May 15 and believes that it is substantially complete and accurate, except as discussed above. However, due to the fact that data gathering involved manual review of individual logs and that logging practices are not automated, and due to the fact that market quality review for the data during this period is not complete, it is possible that additional Exceptional Dispatches occurred during this period. In addition, as noted above, the ISO was not able to capture a substantial portion of MW quantity of Exceptional Dispatch. When the ISO submits the cost data for the time period, the ISO will republish all the Exceptional Dispatch data for this period. Except as noted, the ISO believes the information in this report to be substantially complete and provides an accurate indication of the frequency and causes of Exceptional Dispatch. The inability to confirm that the initial version of this report includes every instance of Exceptional Dispatch is due, in part, to the ISO's commitment in the April 28 Answer to submit Exceptional Dispatch reports on a more expedited basis rather than the 60-day period required by the February 20 Order.

Figure 1: Total MWh Exceptional Dispatch Volumes

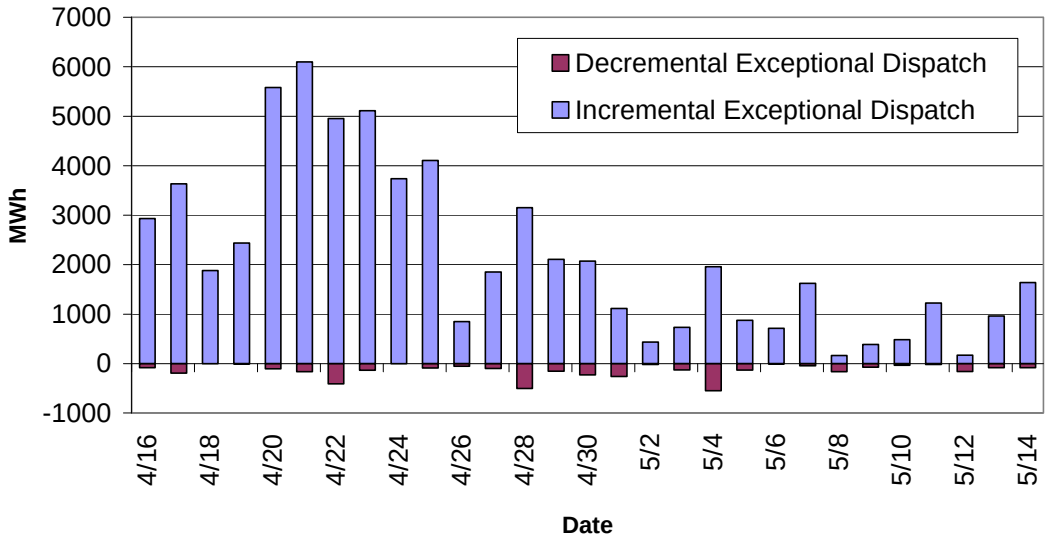
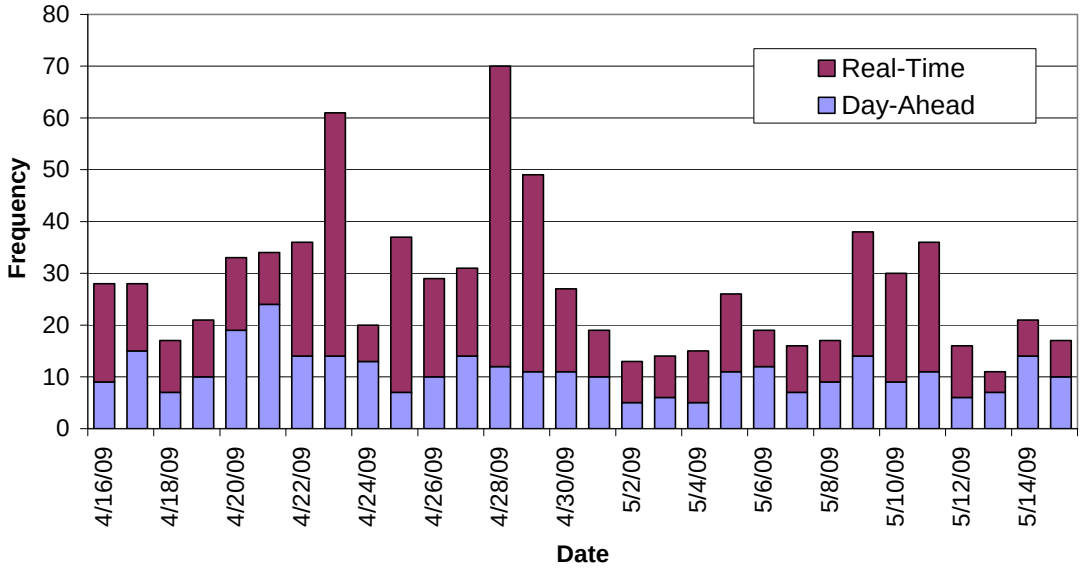


Figure 2: Summary of Exceptional Dispatch Frequency (Day-Ahead vs. Real-Time)



ATTACHMENT A

California Independent System Operator Corporation
Exception Dispatch Report
June 15, 2009

Table of Exceptional Dispatches--April 16 through May 15

Number	Date	Resource Location	Market	Reason
1	4/16/2009	SCE	Day-Ahead	T-103
2	4/16/2009	SDGE/San Diego	Day-Ahead	G-206
3	4/16/2009	SDGE/San Diego	Day-Ahead	G-206
4	4/16/2009	SDGE	Real-Time	Ramp Rate
5	4/16/2009	SDGE	Real-Time	Ramp Rate
6	4/16/2009	SCE	Day-Ahead	T-103
7	4/16/2009	SCE	Day-Ahead	T-103
8	4/16/2009	SCE	Day-Ahead	Transmission Outage SCE
9	4/16/2009	SCE	Day-Ahead	T-103
10	4/16/2009	SCE	Day-Ahead	G-219
11	4/16/2009	SCE	Day-Ahead	T-103
12	4/16/2009	SDGE	Real-Time	Over Generation
13	4/16/2009	SDGE	Real-Time	Over Generation
14	4/16/2009	SCE	Real-Time	Software Limitation
15	4/16/2009	SCE	Real-Time	Software Limitation
16	4/16/2009	Intertie	Real-Time	System Energy
17	4/16/2009	Intertie	Real-Time	System Energy
18	4/16/2009	Intertie	Real-Time	System Energy
19	4/16/2009	Intertie	Real-Time	System Energy
20	4/16/2009	Intertie	Real-Time	System Energy
21	4/16/2009	Intertie	Real-Time	System Energy
22	4/16/2009	Intertie	Real-Time	System Energy
23	4/16/2009	Intertie	Real-Time	System Energy
24	4/16/2009	Intertie	Real-Time	System Energy
25	4/16/2009	Intertie	Real-Time	System Energy
26	4/16/2009	Intertie	Real-Time	System Energy
27	4/16/2009	Intertie	Real-Time	System Energy
28	4/16/2009	Intertie	Real-Time	System Energy
29	4/17/2009	PGAE	Day-Ahead	Transmission Outage PGAE
30	4/17/2009	SCE	Day-Ahead	T-103
31	4/17/2009	SCE	Real-Time	Ramp Rate
32	4/17/2009	SCE	Day-Ahead	Transmission Outage SCE
33	4/17/2009	SCE	Day-Ahead	T-103
34	4/17/2009	SCE	Day-Ahead	T-103
35	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
36	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
37	4/17/2009	SCE	Real-Time	Ramp Rate
38	4/17/2009	SCE	Real-Time	Ramp Rate
39	4/17/2009	SCE	Real-Time	Over Generation
40	4/17/2009	PGAE	Real-Time	Over Generation
41	4/17/2009	SCE	Day-Ahead	Transmission Outage SCE
42	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
43	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE

44	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
45	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
46	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
47	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
48	4/17/2009	PGAE	Real-Time	Software Limitation
49	4/17/2009	PGAE	Real-Time	Software Limitation
50	4/17/2009	SDGE	Day-Ahead	Transmission Outage SDGE
51	4/17/2009	SDGE	Real-Time	Transmission Outage SDGE
52	4/17/2009	SDGE	Real-Time	Transmission Outage SDGE
53	4/17/2009	Intertie	Real-Time	HASP Failure
54	4/17/2009	Intertie	Real-Time	HASP Failure
55	4/17/2009	Intertie	Real-Time	HASP Failure
56	4/17/2009	Intertie	Real-Time	HASP Failure
57	4/18/2009	SCE	Day-Ahead	T-103
58	4/18/2009	SCE	Real-Time	Ramp Rate
59	4/18/2009	SCE	Day-Ahead	Transmission Outage SCE
60	4/18/2009	SCE	Real-Time	Software Limitation
61	4/18/2009	SCE	Real-Time	Ramp Rate
62	4/18/2009	SCE	Day-Ahead	Transmission Outage SCE
63	4/18/2009	SCE	Day-Ahead	T-103
64	4/18/2009	SCE	Day-Ahead	T-103
65	4/18/2009	SDGE	Day-Ahead	Transmission Outage SDGE
66	4/18/2009	SDGE	Real-Time	Software Limitation
67	4/18/2009	SDGE	Day-Ahead	Transmission Outage SDGE
68	4/18/2009	PGAE	Real-Time	Software Limitation
69	4/18/2009	PGAE	Real-Time	Software Limitation
70	4/18/2009	SDGE	Real-Time	Ramp Rate
71	4/18/2009	Intertie	Real-Time	System Energy
72	4/18/2009	Intertie	Real-Time	System Energy
73	4/18/2009	Intertie	Real-Time	System Energy
74	4/19/2009	SCE	Day-Ahead	SP26 Capacity
75	4/19/2009	SCE	Day-Ahead	SP26 Capacity
76	4/19/2009	SDGE	Day-Ahead	SP26 Capacity
77	4/19/2009	SDGE/San Diego	Day-Ahead	G-206
78	4/19/2009	SDGE	Real-Time	Ramp Rate
79	4/19/2009	SDGE	Day-Ahead	Transmission Outage SDGE
80	4/19/2009	SCE	Day-Ahead	SP26 Capacity
81	4/19/2009	SCE	Day-Ahead	SP26 Capacity
82	4/19/2009	SCE	Real-Time	Ramp Rate
83	4/19/2009	SCE	Day-Ahead	SP26 Capacity
84	4/19/2009	SCE	Real-Time	Ramp Rate
85	4/19/2009	SCE	Day-Ahead	SP26 Capacity
86	4/19/2009	SCE	Day-Ahead	SP26 Capacity
87	4/19/2009	SDGE	Real-Time	Software Limitation
88	4/19/2009	PGAE	Real-Time	Software Limitation
89	4/19/2009	Intertie	Real-Time	System Energy
90	4/19/2009	Intertie	Real-Time	System Energy
91	4/19/2009	Intertie	Real-Time	System Energy
92	4/19/2009	Intertie	Real-Time	System Energy
93	4/19/2009	Intertie	Real-Time	System Energy
94	4/19/2009	Intertie	Real-Time	System Energy

95	4/20/2009	SCE	Day-Ahead	SP26 Capacity
96	4/20/2009	SCE	Real-Time	Software Limitation
97	4/20/2009	SCE	Real-Time	Ramp Rate
98	4/20/2009	SCE	Day-Ahead	SP26 Capacity
99	4/20/2009	SCE	Day-Ahead	SP26 Capacity
100	4/20/2009	SCE	Real-Time	Ramp Rate
101	4/20/2009	SCE	Day-Ahead	SP26 Capacity
102	4/20/2009	SCE	Day-Ahead	Transmission Outage SCE
103	4/20/2009	SCE	Day-Ahead	Transmission Outage SCE
104	4/20/2009	SCE	Day-Ahead	G-217
105	4/20/2009	SCE	Day-Ahead	SP26 Capacity
106	4/20/2009	SCE	Day-Ahead	Transmission Outage SCE
107	4/20/2009	SCE	Day-Ahead	SP26 Capacity
108	4/20/2009	SCE	Day-Ahead	SP26 Capacity
109	4/20/2009	SCE	Real-Time	Ramp Rate
110	4/20/2009	SCE	Day-Ahead	SP26 Capacity
111	4/20/2009	PGAE	Day-Ahead	System Capacity
112	4/20/2009	PGAE	Day-Ahead	System Capacity
113	4/20/2009	PGAE	Day-Ahead	System Capacity
114	4/20/2009	SCE	Day-Ahead	SP26 Capacity
115	4/20/2009	SCE	Day-Ahead	SP26 Capacity
116	4/20/2009	SCE	Day-Ahead	SP26 Capacity
117	4/20/2009	SCE	Real-Time	Ramp Rate
118	4/20/2009	PGAE	Real-Time	Software Limitation
119	4/20/2009	PGAE	Real-Time	Software Limitation
120	4/20/2009	PGAE	Real-Time	Software Limitation
121	4/20/2009	SCE	Real-Time	Ramp Rate
122	4/20/2009	SCE	Real-Time	Ramp Rate
123	4/20/2009	SCE	Real-Time	Ramp Rate
124	4/20/2009	SCE	Real-Time	Ramp Rate
125	4/20/2009	SDGE	Real-Time	Ramp Rate
126	4/20/2009	SCE	Day-Ahead	SP26 Capacity
127	4/20/2009	SDGE	Real-Time	Software Limitation
128	4/21/2009	SCE	Day-Ahead	Transmission Outage SCE
129	4/21/2009	SCE	Day-Ahead	Transmission Outage SCE
130	4/21/2009	SCE	Day-Ahead	SP26 Capacity
131	4/21/2009	SCE	Day-Ahead	Transmission Outage SCE
132	4/21/2009	SCE	Day-Ahead	T-103
133	4/21/2009	SDGE	Day-Ahead	SP26 Capacity
134	4/21/2009	SDGE	Day-Ahead	SP26 Capacity
135	4/21/2009	SCE	Day-Ahead	T-103
136	4/21/2009	SCE	Day-Ahead	T-103
137	4/21/2009	SCE	Day-Ahead	T-103
138	4/21/2009	SCE	Day-Ahead	T-103
139	4/21/2009	SCE	Day-Ahead	T-103
140	4/21/2009	SCE	Day-Ahead	T-103
141	4/21/2009	SCE	Day-Ahead	T-103
142	4/21/2009	SCE	Day-Ahead	SP26 Capacity
143	4/21/2009	PGAE	Day-Ahead	SP26 Capacity
144	4/21/2009	SCE	Day-Ahead	SP26 Capacity
145	4/21/2009	SCE	Real-Time	Software Limitation

146	4/21/2009	SDGE	Real-Time	Ramp Rate
147	4/21/2009	SCE	Real-Time	Ramp Rate
148	4/21/2009	SCE	Real-Time	Ramp Rate
149	4/21/2009	SCE	Day-Ahead	SP26 Capacity
150	4/21/2009	SDGE	Day-Ahead	System Capacity
151	4/21/2009	PGAE	Day-Ahead	Transmission Outage PGAE
152	4/21/2009	PGAE	Day-Ahead	Transmission Outage PGAE
153	4/21/2009	PGAE	Day-Ahead	Transmission Outage PGAE
154	4/21/2009	PGAE	Day-Ahead	Transmission Outage PGAE
155	4/21/2009	PGAE	Real-Time	Transmission Outage PGAE
156	4/21/2009	PGAE	Real-Time	Software Limitation
157	4/21/2009	PGAE	Real-Time	Software Limitation
158	4/21/2009	SCE	Real-Time	Software Limitation
159	4/21/2009	SDGE	Day-Ahead	T-103
160	4/21/2009	SCE	Real-Time	Software Limitation
161	4/21/2009	PGAE	Real-Time	Software Limitation
162	4/22/2009	SDGE	Day-Ahead	T-103
163	4/22/2009	SDGE	Day-Ahead	T-103
164	4/22/2009	SDGE	Day-Ahead	T-103
165	4/22/2009	SCE	Day-Ahead	T-103
166	4/22/2009	SCE	Day-Ahead	T-103
167	4/22/2009	SCE	Day-Ahead	T-103
168	4/22/2009	SCE	Day-Ahead	T-103
169	4/22/2009	SCE	Day-Ahead	T-103
170	4/22/2009	SCE	Day-Ahead	T-103
171	4/22/2009	SCE	Day-Ahead	Transmission Outage SCE
172	4/22/2009	SCE	Day-Ahead	T-103
173	4/22/2009	SCE	Day-Ahead	T-103
174	4/22/2009	SCE	Real-Time	Ramp Rate
175	4/22/2009	SCE	Real-Time	Ramp Rate
176	4/22/2009	SCE	Day-Ahead	T-103
177	4/22/2009	SCE	Day-Ahead	T-103
178	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
179	4/22/2009	SDGE	Real-Time	Ramp Rate
180	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
181	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
182	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
183	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
184	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
185	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
186	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
187	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
188	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
189	4/22/2009	PGAE	Real-Time	Transmission Outage PGAE
190	4/22/2009	SCE	Real-Time	Ramp Rate
191	4/22/2009	SDGE	Real-Time	Software Limitation
192	4/22/2009	SDGE	Real-Time	Software Limitation
193	4/22/2009	SCE	Real-Time	Transmission Outage SCE
194	4/22/2009	Intertie	Real-Time	HASP Failure
195	4/22/2009	Intertie	Real-Time	HASP Failure
196	4/22/2009	Intertie	Real-Time	HASP Failure

197	4/22/2009	Intertie	Real-Time	System Energy
198	4/23/2009	SDGE	Day-Ahead	T-103
199	4/23/2009	SDGE	Day-Ahead	T-103
200	4/23/2009	SDGE	Day-Ahead	T-103
201	4/23/2009	SCE	Day-Ahead	Transmission Outage SCE
202	4/23/2009	SCE	Day-Ahead	Transmission Outage SCE
203	4/23/2009	SCE	Day-Ahead	Transmission Outage SCE
204	4/23/2009	SCE	Day-Ahead	T-103
205	4/23/2009	SCE	Day-Ahead	T-103
206	4/23/2009	SCE	Day-Ahead	T-103
207	4/23/2009	SCE	Day-Ahead	T-103
208	4/23/2009	SCE	Day-Ahead	T-103
209	4/23/2009	SCE	Day-Ahead	T-103
210	4/23/2009	SCE	Real-Time	Transmission Outage SCE
211	4/23/2009	SCE	Real-Time	Transmission Outage SCE
212	4/23/2009	SCE	Day-Ahead	T-103
213	4/23/2009	SCE	Day-Ahead	T-103
214	4/23/2009	SCE	Real-Time	Over Generation
215	4/23/2009	SCE	Real-Time	Over Generation
216	4/23/2009	SCE	Real-Time	Over Generation
217	4/23/2009	PGAE	Real-Time	Over Generation
218	4/23/2009	PGAE	Real-Time	Over Generation
219	4/23/2009	PGAE	Real-Time	Over Generation
220	4/23/2009	PGAE	Real-Time	Over Generation
221	4/23/2009	SCE	Real-Time	Ramp Rate
222	4/23/2009	SCE	Real-Time	Ramp Rate
223	4/23/2009	SCE	Real-Time	Ramp Rate
224	4/23/2009	SCE	Real-Time	Ramp Rate
225	4/23/2009	SCE	Real-Time	Ramp Rate
226	4/23/2009	SCE	Real-Time	Ramp Rate
227	4/23/2009	SCE	Real-Time	Ramp Rate
228	4/23/2009	PGAE	Real-Time	Software Limitation
229	4/23/2009	PGAE	Real-Time	Software Limitation
230	4/23/2009	SCE	Real-Time	Software Limitation
231	4/23/2009	SCE	Real-Time	Software Limitation
232	4/23/2009	SCE	Real-Time	Software Limitation
233	4/23/2009	SCE	Real-Time	Software Limitation
234	4/23/2009	PGAE	Real-Time	Over Generation
235	4/23/2009	SCE	Real-Time	Over Generation
236	4/23/2009	SCE	Real-Time	Over Generation
237	4/23/2009	Intertie	Real-Time	System Energy
238	4/23/2009	Intertie	Real-Time	System Energy
239	4/23/2009	Intertie	Real-Time	System Energy
240	4/23/2009	Intertie	Real-Time	System Energy
241	4/23/2009	Intertie	Real-Time	System Energy
242	4/23/2009	Intertie	Real-Time	System Energy
243	4/23/2009	Intertie	Real-Time	System Energy
244	4/23/2009	Intertie	Real-Time	System Energy
245	4/23/2009	Intertie	Real-Time	System Energy
246	4/23/2009	Intertie	Real-Time	System Energy
247	4/23/2009	Intertie	Real-Time	System Energy

248	4/23/2009	Intertie	Real-Time	System Energy
249	4/23/2009	Intertie	Real-Time	System Energy
250	4/23/2009	Intertie	Real-Time	System Energy
251	4/23/2009	Intertie	Real-Time	System Energy
252	4/23/2009	Intertie	Real-Time	System Energy
253	4/23/2009	Intertie	Real-Time	System Energy
254	4/23/2009	Intertie	Real-Time	System Energy
255	4/23/2009	Intertie	Real-Time	System Energy
256	4/23/2009	Intertie	Real-Time	System Energy
257	4/23/2009	Intertie	Real-Time	System Energy
258	4/23/2009	Intertie	Real-Time	System Energy
259	4/24/2009	SCE	Day-Ahead	G-217
260	4/24/2009	SCE	Day-Ahead	G-217
261	4/24/2009	SCE	Day-Ahead	Path 26
262	4/24/2009	SCE	Day-Ahead	Path 26
263	4/24/2009	SCE	Real-Time	Ramp Rate
264	4/24/2009	SCE	Day-Ahead	Path 26
265	4/24/2009	SCE	Day-Ahead	Path 26
266	4/24/2009	SCE	Day-Ahead	G-217
267	4/24/2009	SCE	Day-Ahead	G-217
268	4/24/2009	SDGE	Real-Time	Transmission Outage SDGE
269	4/24/2009	SDGE	Real-Time	Ramp Rate
270	4/24/2009	SDGE	Day-Ahead	Transmission Outage SDGE
271	4/24/2009	SDGE	Real-Time	Software Limitation
272	4/24/2009	SCE	Real-Time	Ramp Rate
273	4/24/2009	SCE	Real-Time	Ramp Rate
274	4/24/2009	SCE	Day-Ahead	Transmission Outage SCE
275	4/24/2009	SCE	Day-Ahead	Transmission Outage SCE
276	4/24/2009	SCE	Day-Ahead	T-103
277	4/24/2009	SCE	Day-Ahead	Transmission Outage SCE
278	4/24/2009	SCE	Real-Time	Ramp Rate
279	4/25/2009	SCE	Day-Ahead	T-103
280	4/25/2009	SCE	Day-Ahead	G-217
281	4/25/2009	SCE	Day-Ahead	G-217
282	4/25/2009	SCE	Day-Ahead	T-103
283	4/25/2009	SCE	Day-Ahead	T-103
284	4/25/2009	SCE	Day-Ahead	T-103
285	4/25/2009	SCE	Real-Time	Ramp Rate
286	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
287	4/25/2009	PGAE	Day-Ahead	Transmission Outage PGAE
288	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
289	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
290	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
291	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
292	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
293	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
294	4/25/2009	SDGE	Real-Time	Ramp Rate
295	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
296	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
297	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE
298	4/25/2009	PGAE	Real-Time	Transmission Outage PGAE

299	4/25/2009	Intertie	Real-Time	System Energy
300	4/25/2009	Intertie	Real-Time	System Energy
301	4/25/2009	Intertie	Real-Time	System Energy
302	4/25/2009	Intertie	Real-Time	System Energy
303	4/25/2009	Intertie	Real-Time	System Energy
304	4/25/2009	Intertie	Real-Time	System Energy
305	4/25/2009	Intertie	Real-Time	System Energy
306	4/25/2009	Intertie	Real-Time	System Energy
307	4/25/2009	Intertie	Real-Time	System Energy
308	4/25/2009	Intertie	Real-Time	System Energy
309	4/25/2009	Intertie	Real-Time	System Energy
310	4/25/2009	Intertie	Real-Time	System Energy
311	4/25/2009	Intertie	Real-Time	System Energy
312	4/25/2009	Intertie	Real-Time	System Energy
313	4/25/2009	Intertie	Real-Time	System Energy
314	4/25/2009	Intertie	Real-Time	System Energy
315	4/25/2009	Intertie	Real-Time	System Energy
316	4/26/2009	PGAE	Day-Ahead	Transmission Outage PGAE
317	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
318	4/26/2009	SDGE/San Diego	Day-Ahead	G-206
319	4/26/2009	SDGE	Real-Time	Ramp Rate
320	4/26/2009	SCE	Day-Ahead	T-103
321	4/26/2009	SCE	Day-Ahead	Transmission Outage SCE
322	4/26/2009	SCE	Day-Ahead	Transmission Outage SCE
323	4/26/2009	SCE	Real-Time	Ramp Rate
324	4/26/2009	SCE	Day-Ahead	Transmission Outage SCE
325	4/26/2009	SCE	Day-Ahead	Transmission Outage SCE
326	4/26/2009	SCE	Day-Ahead	T-103
327	4/26/2009	SCE	Day-Ahead	T-103
328	4/26/2009	SCE	Day-Ahead	T-103
329	4/26/2009	PGAE	Real-Time	Software Limitation
330	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
331	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
332	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
333	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
334	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
335	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
336	4/26/2009	PGAE	Real-Time	Transmission Outage PGAE
337	4/26/2009	Intertie	Real-Time	System Energy
338	4/26/2009	Intertie	Real-Time	System Energy
339	4/26/2009	Intertie	Real-Time	System Energy
340	4/26/2009	Intertie	Real-Time	System Energy
341	4/26/2009	Intertie	Real-Time	System Energy
342	4/26/2009	Intertie	Real-Time	System Energy
343	4/26/2009	Intertie	Real-Time	System Energy
344	4/26/2009	Intertie	Real-Time	System Energy
345	4/27/2009	SDGE/San Diego	Day-Ahead	G-206
346	4/27/2009	SCE	Day-Ahead	Path 26
347	4/27/2009	SCE	Day-Ahead	Transmission Outage SCE
348	4/27/2009	SCE	Real-Time	Ramp Rate
349	4/27/2009	SCE	Real-Time	Ramp Rate

350	4/27/2009	SCE	Day-Ahead	Path 26
351	4/27/2009	SCE	Day-Ahead	Path 26
352	4/27/2009	SCE	Real-Time	Ramp Rate
353	4/27/2009	SCE	Day-Ahead	Path 26
354	4/27/2009	SCE	Real-Time	Ramp Rate
355	4/27/2009	SCE	Day-Ahead	Transmission Outage SCE
356	4/27/2009	SCE	Day-Ahead	Transmission Outage SCE
357	4/27/2009	SCE	Real-Time	Ramp Rate
358	4/27/2009	SCE	Day-Ahead	Transmission Outage SCE
359	4/27/2009	SCE	Day-Ahead	Path 26
360	4/27/2009	SCE	Day-Ahead	Path 26
361	4/27/2009	SCE	Day-Ahead	Path 26
362	4/27/2009	PGAE/Humboldt	Real-Time	T-138
363	4/27/2009	PGAE/Humboldt	Real-Time	T-138
364	4/27/2009	PGAE/Humboldt	Real-Time	T-138
365	4/27/2009	PGAE/Humboldt	Real-Time	T-138
366	4/27/2009	PGAE/Humboldt	Real-Time	T-138
367	4/27/2009	PGAE/Humboldt	Real-Time	T-138
368	4/27/2009	PGAE/Humboldt	Real-Time	T-138
369	4/27/2009	PGAE	Real-Time	Transmission Outage PGAE
370	4/27/2009	PGAE	Real-Time	Transmission Outage PGAE
371	4/27/2009	PGAE	Real-Time	Transmission Outage PGAE
372	4/27/2009	SDGE/San Diego	Day-Ahead	G-206
373	4/27/2009	PGAE	Real-Time	Transmission Outage PGAE
374	4/27/2009	PGAE	Real-Time	Transmission Outage PGAE
375	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
376	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
377	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
378	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
379	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
380	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
381	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
382	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
383	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
384	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
385	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
386	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
387	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
388	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
389	4/28/2009	SCE	Day-Ahead	Transmission Outage SCE
390	4/28/2009	SCE	Real-Time	Transmission Outage SCE
391	4/28/2009	SCE	Real-Time	Ramp Rate
392	4/28/2009	SCE	Day-Ahead	SP26 Capacity
393	4/28/2009	SCE	Real-Time	System Capacity
394	4/28/2009	SCE	Real-Time	Ramp Rate
395	4/28/2009	SCE	Day-Ahead	SP26 Capacity
396	4/28/2009	SCE	Real-Time	Ramp Rate
397	4/28/2009	SCE	Day-Ahead	Transmission Outage SCE
398	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
399	4/28/2009	PGAE	Day-Ahead	Transmission Outage PGAE
400	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE

401	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
402	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
403	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
404	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
405	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
406	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
407	4/28/2009	SDGE	Day-Ahead	Transmission Outage SDGE
408	4/28/2009	SDGE	Real-Time	Ramp Rate
409	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
410	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
411	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
412	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
413	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
414	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
415	4/28/2009	SCE	Day-Ahead	Transmission Outage SCE
416	4/28/2009	SCE	Real-Time	Over Generation
417	4/28/2009	PGAE	Real-Time	Ramp Rate
418	4/28/2009	PGAE	Real-Time	Ramp Rate
419	4/28/2009	PGAE	Real-Time	Ramp Rate
420	4/28/2009	PGAE	Real-Time	Ramp Rate
421	4/28/2009	PGAE	Real-Time	Ramp Rate
422	4/28/2009	PGAE	Real-Time	Ramp Rate
423	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
424	4/28/2009	PGAE	Real-Time	Transmission Outage PGAE
425	4/28/2009	SCE	Real-Time	System Capacity
426	4/28/2009	PGAE	Real-Time	Software Limitation
427	4/28/2009	PGAE	Real-Time	Software Limitation
428	4/28/2009	SCE	Real-Time	Software Limitation
429	4/28/2009	SCE	Real-Time	Software Limitation
430	4/28/2009	SCE	Day-Ahead	Transmission Outage SCE
431	4/28/2009	SCE	Day-Ahead	G-219
432	4/28/2009	SCE	Day-Ahead	SP26 Capacity
433	4/28/2009	SCE	Day-Ahead	SP26 Capacity
434	4/28/2009	SCE	Day-Ahead	SP26 Capacity
435	4/28/2009	Intertie	Real-Time	HASP Failure
436	4/28/2009	Intertie	Real-Time	HASP Failure
437	4/28/2009	Intertie	Real-Time	HASP Failure
438	4/28/2009	Intertie	Real-Time	HASP Failure
439	4/28/2009	Intertie	Real-Time	HASP Failure
440	4/28/2009	Intertie	Real-Time	HASP Failure
441	4/28/2009	Intertie	Real-Time	HASP Failure
442	4/28/2009	Intertie	Real-Time	HASP Failure
443	4/28/2009	Intertie	Real-Time	System Energy
444	4/28/2009	Intertie	Real-Time	System Energy
445	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
446	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
447	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
448	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
449	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
450	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
451	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE

452	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
453	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
454	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
455	4/29/2009	SCE	Real-Time	Software Limitation
456	4/29/2009	PGAE	Real-Time	Software Limitation
457	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
458	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
459	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
460	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
461	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
462	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
463	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
464	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
465	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
466	4/29/2009	SCE	Day-Ahead	Transmission Outage SCE
467	4/29/2009	SCE	Real-Time	Ramp Rate
468	4/29/2009	PGAE	Real-Time	Software Limitation
469	4/29/2009	PGAE	Real-Time	Software Limitation
470	4/29/2009	PGAE	Real-Time	Software Limitation
471	4/29/2009	PGAE	Real-Time	Software Limitation
472	4/29/2009	PGAE	Real-Time	Software Limitation
473	4/29/2009	PGAE	Real-Time	Software Limitation
474	4/29/2009	SCE	Real-Time	Ramp Rate
475	4/29/2009	SCE	Real-Time	Ramp Rate
476	4/29/2009	PGAE	Real-Time	Over Generation
477	4/29/2009	PGAE	Real-Time	Over Generation
478	4/29/2009	PGAE	Real-Time	Over Generation
479	4/29/2009	PGAE	Real-Time	Over Generation
480	4/29/2009	SCE	Real-Time	Ramp Rate
481	4/29/2009	SCE	Day-Ahead	Transmission Outage SCE
482	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
483	4/29/2009	PGAE/Greater Bay	Day-Ahead	G-233
484	4/29/2009	PGAE	Real-Time	Transmission Outage PGAE
485	4/29/2009	SCE	Day-Ahead	SP26 Capacity
486	4/29/2009	SCE	Day-Ahead	SP26 Capacity
487	4/29/2009	SCE	Day-Ahead	SP26 Capacity
488	4/29/2009	SCE	Day-Ahead	SP26 Capacity
489	4/29/2009	SDGE	Day-Ahead	Transmission Outage SDGE
490	4/29/2009	SCE	Day-Ahead	Transmission Outage SCE
491	4/29/2009	SCE	Day-Ahead	Transmission Outage SCE
492	4/29/2009	SCE	Day-Ahead	G-219
493	4/29/2009	PGAE	Real-Time	Software Limitation
494	4/30/2009	PGAE/Greater Bay	Day-Ahead	G-233
495	4/30/2009	SCE	Day-Ahead	Transmission Outage SCE
496	4/30/2009	SCE	Day-Ahead	Transmission Outage SCE
497	4/30/2009	SDGE	Day-Ahead	Transmission Outage SDGE
498	4/30/2009	SCE	Day-Ahead	Transmission Outage SCE
499	4/30/2009	SCE	Day-Ahead	Transmission Outage SCE
500	4/30/2009	SCE	Day-Ahead	G-219
501	4/30/2009	SCE	Day-Ahead	SP26 Capacity
502	4/30/2009	SCE	Day-Ahead	SP26 Capacity

503	4/30/2009	SCE	Day-Ahead	SP26 Capacity
504	4/30/2009	SCE	Day-Ahead	SP26 Capacity
505	4/30/2009	SCE	Real-Time	Ramp Rate
506	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
507	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
508	4/30/2009	SCE	Real-Time	Ramp Rate
509	4/30/2009	SCE	Real-Time	Ramp Rate
510	4/30/2009	SCE	Real-Time	Ramp Rate
511	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
512	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
513	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
514	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
515	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
516	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
517	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
518	4/30/2009	PGAE	Real-Time	Transmission Outage PGAE
519	4/30/2009	SCE	Real-Time	Transmission Outage (Other)
520	4/30/2009	PGAE	Real-Time	Software Limitation
521	5/1/2009	PGAE/Greater Bay	Day-Ahead	G-233
522	5/1/2009	SDGE	Day-Ahead	Transmission Outage SDGE
523	5/1/2009	SCE	Day-Ahead	G-219
524	5/1/2009	SCE	Day-Ahead	Transmission Outage SCE
525	5/1/2009	SCE	Day-Ahead	Transmission Outage SCE
526	5/1/2009	SCE	Real-Time	Ramp Rate
527	5/1/2009	SCE	Day-Ahead	Transmission Outage SCE
528	5/1/2009	SCE	Day-Ahead	Transmission Outage SCE
529	5/1/2009	SCE	Day-Ahead	SP26 Capacity
530	5/1/2009	SCE	Day-Ahead	SP26 Capacity
531	5/1/2009	SCE	Day-Ahead	SP26 Capacity
532	5/1/2009	SDGE	Real-Time	Ramp Rate
533	5/1/2009	SCE	Real-Time	Ramp Rate
534	5/1/2009	SCE	Real-Time	Ramp Rate
535	5/1/2009	SCE	Real-Time	Ramp Rate
536	5/1/2009	Intertie	Real-Time	HASP Failure
537	5/1/2009	Intertie	Real-Time	HASP Failure
538	5/1/2009	Intertie	Real-Time	HASP Failure
539	5/1/2009	Intertie	Real-Time	HASP Failure
540	5/2/2009	SDGE	Day-Ahead	Transmission Outage SDGE
541	5/2/2009	SCE	Day-Ahead	Transmission Outage SCE
542	5/2/2009	SCE	Day-Ahead	Transmission Outage SCE
543	5/2/2009	SCE	Real-Time	Ramp Rate
544	5/2/2009	SCE	Day-Ahead	Transmission Outage SCE
545	5/2/2009	SCE	Day-Ahead	Transmission Outage SCE
546	5/2/2009	SCE	Real-Time	Ramp Rate
547	5/2/2009	PGAE	Real-Time	Software Limitation
548	5/2/2009	PGAE/Humboldt	Real-Time	T-138
549	5/2/2009	Intertie	Real-Time	System Energy
550	5/2/2009	Intertie	Real-Time	System Energy
551	5/2/2009	Intertie	Real-Time	System Energy
552	5/2/2009	Intertie	Real-Time	System Energy
553	5/3/2009	SDGE	Day-Ahead	Transmission Outage SDGE

554	5/3/2009	SCE	Day-Ahead	Transmission Outage SCE
555	5/3/2009	SCE	Day-Ahead	Transmission Outage SCE
556	5/3/2009	SCE	Day-Ahead	Transmission Outage SCE
557	5/3/2009	SCE	Day-Ahead	Transmission Outage SCE
558	5/3/2009	SCE	Day-Ahead	Transmission Outage SCE
559	5/3/2009	SCE	Real-Time	Software Limitation
560	5/3/2009	PGAE	Real-Time	Software Limitation
561	5/3/2009	SCE	Real-Time	Software Limitation
562	5/3/2009	SDGE	Real-Time	Software Limitation
563	5/3/2009	SCE	Real-Time	Ramp Rate
564	5/3/2009	SCE	Real-Time	Ramp Rate
565	5/3/2009	SCE	Real-Time	Ramp Rate
566	5/3/2009	SDGE	Real-Time	Ramp Rate
567	5/4/2009	SDGE	Real-Time	Ramp Rate
568	5/4/2009	SDGE	Day-Ahead	Transmission Outage SDGE
569	5/4/2009	SCE	Day-Ahead	Transmission Outage SCE
570	5/4/2009	SCE	Day-Ahead	Transmission Outage SCE
571	5/4/2009	SCE	Day-Ahead	Transmission Outage SCE
572	5/4/2009	SCE	Real-Time	Ramp Rate
573	5/4/2009	SCE	Day-Ahead	Transmission Outage SCE
574	5/4/2009	SCE	Real-Time	Transmission Outage SCE
575	5/4/2009	SCE	Real-Time	Transmission Outage SCE
576	5/4/2009	SCE	Real-Time	Transmission Outage SCE
577	5/4/2009	SCE	Real-Time	Transmission Outage SCE
578	5/4/2009	SCE	Real-Time	Ramp Rate
579	5/4/2009	SCE	Real-Time	Ramp Rate
580	5/4/2009	PGAE	Real-Time	Transmission Outage PGAE
581	5/4/2009	PGAE	Real-Time	Transmission Outage PGAE
582	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
583	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
584	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
585	5/5/2009	SDGE	Day-Ahead	Transmission Outage SCE
586	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
587	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
588	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
589	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
590	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
591	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
592	5/5/2009	SCE	Day-Ahead	Transmission Outage SCE
593	5/5/2009	SCE	Real-Time	Ramp Rate
594	5/5/2009	SCE	Real-Time	Ramp Rate
595	5/5/2009	PGAE	Real-Time	Transmission Outage PGAE
596	5/5/2009	Intertie	Real-Time	HASP Failure
597	5/5/2009	Intertie	Real-Time	HASP Failure
598	5/5/2009	Intertie	Real-Time	HASP Failure
599	5/5/2009	Intertie	Real-Time	HASP Failure
600	5/5/2009	Intertie	Real-Time	HASP Failure
601	5/5/2009	Intertie	Real-Time	HASP Failure
602	5/5/2009	Intertie	Real-Time	HASP Failure
603	5/5/2009	Intertie	Real-Time	HASP Failure
604	5/5/2009	Intertie	Real-Time	HASP Failure

605	5/5/2009	Intertie	Real-Time	HASP Failure
606	5/5/2009	Intertie	Real-Time	HASP Failure
607	5/5/2009	Intertie	Real-Time	HASP Failure
608	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
609	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
610	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
611	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
612	5/6/2009	SDGE	Day-Ahead	Transmission Outage SCE
613	5/6/2009	SDGE	Real-Time	Ramp Rate
614	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
615	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
616	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
617	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
618	5/6/2009	SCE	Day-Ahead	Transmission Outage SCE
619	5/6/2009	SCE	Day-Ahead	System Capacity
620	5/6/2009	SCE	Day-Ahead	System Capacity
621	5/6/2009	PGAE	Real-Time	Transmission Outage PGAE
622	5/6/2009	PGAE	Real-Time	Transmission Outage PGAE
623	5/6/2009	PGAE	Real-Time	Transmission Outage PGAE
624	5/6/2009	PGAE	Real-Time	Transmission Outage PGAE
625	5/6/2009	PGAE	Real-Time	Software Limitation
626	5/6/2009	SCE	Real-Time	Software Limitation
627	5/7/2009	SCE	Day-Ahead	Transmission Outage SDGE
628	5/7/2009	SCE	Day-Ahead	Transmission Outage SDGE
629	5/7/2009	SDGE	Day-Ahead	Transmission Outage (Other)
630	5/7/2009	SCE	Day-Ahead	Transmission Outage SDGE
631	5/7/2009	SCE	Day-Ahead	Transmission Outage SDGE
632	5/7/2009	SCE	Day-Ahead	Transmission Outage SCE
633	5/7/2009	SCE	Real-Time	Ramp Rate
634	5/7/2009	SDGE	Real-Time	Transmission Outage SDGE
635	5/7/2009	SCE	Real-Time	Ramp Rate
636	5/7/2009	SCE	Day-Ahead	SP26 Capacity
637	5/7/2009	SCE	Real-Time	Software Limitation
638	5/7/2009	SCE	Real-Time	Software Limitation
639	5/7/2009	SCE	Real-Time	Software Limitation
640	5/7/2009	SCE	Real-Time	Software Limitation
641	5/7/2009	SCE	Real-Time	Software Limitation
642	5/7/2009	SCE	Real-Time	Software Limitation
643	5/8/2009	SDGE	Day-Ahead	Transmission Outage SDGE
644	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
645	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
646	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
647	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
648	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
649	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
650	5/8/2009	SDGE	Day-Ahead	Transmission Outage SDGE
651	5/8/2009	SCE	Day-Ahead	Transmission Outage SDGE
652	5/8/2009	SCE	Real-Time	Software Limitation
653	5/8/2009	PGAE	Real-Time	Transmission Outage PGAE
654	5/8/2009	PGAE/Humboldt	Real-Time	Voltage Support
655	5/8/2009	PGAE/Humboldt	Real-Time	Voltage Support

656	5/8/2009	PGAE	Real-Time	Software Limitation
657	5/8/2009	Intertie	Real-Time	System Energy
658	5/8/2009	Intertie	Real-Time	System Energy
659	5/8/2009	Intertie	Real-Time	System Energy
660	5/9/2009	SDGE	Day-Ahead	Transmission Outage SDGE
661	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
662	5/9/2009	SDGE	Day-Ahead	Transmission Outage SDGE
663	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
664	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
665	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
666	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
667	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
668	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
669	5/9/2009	SCE	Day-Ahead	Transmission Outage SCE
670	5/9/2009	SCE	Real-Time	Transmission Outage SCE
671	5/9/2009	SCE	Real-Time	Ramp Rate
672	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
673	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
674	5/9/2009	SDGE	Day-Ahead	Transmission Outage SDGE
675	5/9/2009	SCE	Day-Ahead	Transmission Outage SDGE
676	5/9/2009	PGAE	Real-Time	Software Limitation
677	5/9/2009	PGAE	Real-Time	Software Limitation
678	5/9/2009	PGAE	Real-Time	Transmission Outage PGAE
679	5/9/2009	PGAE	Real-Time	Software Limitation
680	5/9/2009	PGAE	Real-Time	Software Limitation
681	5/9/2009	PGAE	Real-Time	Software Limitation
682	5/9/2009	SDGE	Real-Time	Software Limitation
683	5/9/2009	SDGE	Real-Time	Software Limitation
684	5/9/2009	SCE	Real-Time	Software Limitation
685	5/9/2009	SCE	Real-Time	Software Limitation
686	5/9/2009	Intertie	Real-Time	HASP Failure
687	5/9/2009	Intertie	Real-Time	HASP Failure
688	5/9/2009	Intertie	Real-Time	HASP Failure
689	5/9/2009	Intertie	Real-Time	HASP Failure
690	5/9/2009	Intertie	Real-Time	HASP Failure
691	5/9/2009	Intertie	Real-Time	HASP Failure
692	5/9/2009	Intertie	Real-Time	HASP Failure
693	5/9/2009	Intertie	Real-Time	HASP Failure
694	5/9/2009	Intertie	Real-Time	HASP Failure
695	5/9/2009	Intertie	Real-Time	HASP Failure
696	5/9/2009	Intertie	Real-Time	HASP Failure
697	5/9/2009	Intertie	Real-Time	HASP Failure
698	5/10/2009	PGAE	Real-Time	Software Limitation
699	5/10/2009	PGAE	Real-Time	Software Limitation
700	5/10/2009	PGAE	Real-Time	Software Limitation
701	5/10/2009	PGAE	Real-Time	Software Limitation
702	5/10/2009	PGAE	Real-Time	Software Limitation
703	5/10/2009	PGAE	Real-Time	Software Limitation
704	5/10/2009	SDGE	Day-Ahead	Transmission Outage SDGE
705	5/10/2009	SDGE	Day-Ahead	Transmission Outage SDGE
706	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE

707	5/10/2009	PGAE	Real-Time	Software Limitation
708	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE
709	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE
710	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE
711	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE
712	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE
713	5/10/2009	SCE	Day-Ahead	Transmission Outage SDGE
714	5/10/2009	PGAE/Humboldt	Real-Time	T-154
715	5/10/2009	PGAE/Humboldt	Real-Time	T-154
716	5/10/2009	PGAE/Humboldt	Real-Time	T-154
717	5/10/2009	PGAE/Humboldt	Real-Time	T-138
718	5/10/2009	PGAE/Humboldt	Real-Time	T-138
719	5/10/2009	Intertie	Real-Time	HASP Failure
720	5/10/2009	Intertie	Real-Time	HASP Failure
721	5/10/2009	Intertie	Real-Time	HASP Failure
722	5/10/2009	Intertie	Real-Time	HASP Failure
723	5/10/2009	Intertie	Real-Time	HASP Failure
724	5/10/2009	Intertie	Real-Time	HASP Failure
725	5/10/2009	Intertie	Real-Time	HASP Failure
726	5/10/2009	Intertie	Real-Time	HASP Failure
727	5/10/2009	Intertie	Real-Time	HASP Failure
728	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
729	5/11/2009	SCE	Real-Time	Transmission Outage SDGE
730	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
731	5/11/2009	SDGE	Day-Ahead	Transmission Outage SDGE
732	5/11/2009	SDGE	Day-Ahead	Transmission Outage SDGE
733	5/11/2009	SCE	Real-Time	Software Limitation
734	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
735	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
736	5/11/2009	SCE	Real-Time	Software Limitation
737	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
738	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
739	5/11/2009	SCE	Day-Ahead	G-217
740	5/11/2009	SCE	Day-Ahead	Transmission Outage SDGE
741	5/11/2009	SCE	Day-Ahead	G-217
742	5/11/2009	SCE	Real-Time	System Capacity
743	5/11/2009	SCE	Real-Time	System Capacity
744	5/11/2009	PGAE	Real-Time	Transmission Outage PGAE
745	5/11/2009	PGAE	Real-Time	Transmission Outage PGAE
746	5/11/2009	PGAE	Real-Time	Software Limitation
747	5/11/2009	PGAE	Real-Time	Software Limitation
748	5/11/2009	PGAE	Real-Time	Software Limitation
749	5/11/2009	PGAE	Real-Time	Software Limitation
750	5/11/2009	SCE	Real-Time	Software Limitation
751	5/11/2009	PGAE/Humboldt	Real-Time	T-138
752	5/11/2009	PGAE/Humboldt	Real-Time	T-138
753	5/11/2009	PGAE	Real-Time	Software Limitation
754	5/11/2009	PGAE	Real-Time	Software Limitation
755	5/11/2009	PGAE	Real-Time	Software Limitation
756	5/11/2009	PGAE	Real-Time	Software Limitation
757	5/11/2009	PGAE	Real-Time	Software Limitation

758	5/11/2009	PGAE	Real-Time	Software Limitation
759	5/11/2009	Intertie	Real-Time	System Energy
760	5/11/2009	Intertie	Real-Time	System Energy
761	5/11/2009	Intertie	Real-Time	System Energy
762	5/11/2009	Intertie	Real-Time	System Energy
763	5/11/2009	Intertie	Real-Time	System Energy
764	5/12/2009	SDGE	Day-Ahead	Transmission Outage SDGE
765	5/12/2009	SCE	Day-Ahead	SP26 Capacity
766	5/12/2009	SCE	Day-Ahead	SP26 Capacity
767	5/12/2009	SCE	Day-Ahead	Transmission Outage SCE
768	5/12/2009	SCE	Day-Ahead	Transmission Outage SCE
769	5/12/2009	PGAE	Day-Ahead	Transmission Outage PGAE
770	5/12/2009	PGAE	Real-Time	Transmission Outage PGAE
771	5/12/2009	PGAE	Real-Time	Software Limitation
772	5/12/2009	PGAE	Real-Time	Software Limitation
773	5/12/2009	SCE	Real-Time	Software Limitation
774	5/12/2009	SCE	Real-Time	Ramp Rate
775	5/12/2009	Intertie	Real-Time	HASP Failure
776	5/12/2009	Intertie	Real-Time	HASP Failure
777	5/12/2009	Intertie	Real-Time	HASP Failure
778	5/12/2009	Intertie	Real-Time	HASP Failure
779	5/12/2009	Intertie	Real-Time	HASP Failure
780	5/13/2009	PGAE	Day-Ahead	Transmission Outage PGAE
781	5/13/2009	SCE	Day-Ahead	Transmission Outage SCE
782	5/13/2009	SDGE	Day-Ahead	Transmission Outage SDGE
783	5/13/2009	SCE	Day-Ahead	Transmission Outage SCE
784	5/13/2009	SCE	Day-Ahead	SP26 Capacity
785	5/13/2009	SCE	Day-Ahead	SP26 Capacity
786	5/13/2009	SDGE	Day-Ahead	Transmission Outage SDGE
787	5/13/2009	PGAE	Real-Time	Software Limitation
788	5/13/2009	PGAE	Real-Time	Software Limitation
789	5/13/2009	PGAE	Real-Time	Transmission Outage PGAE
790	5/13/2009	PGAE	Real-Time	Transmission Outage PGAE
791	5/14/2009	SDGE	Day-Ahead	Transmission Outage SDGE
792	5/14/2009	SCE	Day-Ahead	Transmission Outage SCE
793	5/14/2009	SCE	Day-Ahead	Transmission Outage SCE
794	5/14/2009	SCE	Day-Ahead	Transmission Outage SCE
795	5/14/2009	SDGE	Day-Ahead	Transmission Outage SDGE
796	5/14/2009	SDGE	Day-Ahead	Transmission Outage SDGE
797	5/14/2009	SCE	Day-Ahead	SP26 Capacity
798	5/14/2009	SCE	Day-Ahead	Transmission Outage SCE
799	5/14/2009	SCE	Day-Ahead	Transmission Outage SCE
800	5/14/2009	SCE	Day-Ahead	SP26 Capacity
801	5/14/2009	SCE	Day-Ahead	SP26 Capacity
802	5/14/2009	SCE	Day-Ahead	SP26 Capacity
803	5/14/2009	SCE	Day-Ahead	SP26 Capacity
804	5/14/2009	SCE	Day-Ahead	SP26 Capacity
805	5/14/2009	PGAE	Real-Time	Software Limitation
806	5/14/2009	PGAE	Real-Time	Software Limitation
807	5/14/2009	PGAE	Real-Time	Software Limitation
808	5/14/2009	PGAE	Real-Time	Software Limitation

809	5/14/2009	SCE	Real-Time	Unit Testing
810	5/14/2009	SCE	Real-Time	Software Limitation
811	5/14/2009	PGAE	Real-Time	Transmission Outage PGAE
812	5/15/2009	SCE	Day-Ahead	Transmission Outage SDGE
813	5/15/2009	SCE	Day-Ahead	Transmission Outage SDGE
814	5/15/2009	SCE	Day-Ahead	Transmission Outage SDGE
815	5/15/2009	SDGE	Day-Ahead	Transmission Outage SDGE
816	5/15/2009	SCE	Day-Ahead	Transmission Outage SDGE
817	5/15/2009	SDGE	Day-Ahead	Transmission Outage SCE
818	5/15/2009	SCE	Day-Ahead	SP26 Capacity
819	5/15/2009	SDGE	Day-Ahead	Transmission Outage SDGE
820	5/15/2009	SCE	Day-Ahead	SP26 Capacity
821	5/15/2009	SDGE	Day-Ahead	Transmission Outage SDGE
822	5/15/2009	PGAE	Real-Time	Software Limitation
823	5/15/2009	PGAE	Real-Time	Transmission Outage PGAE
824	5/15/2009	PGAE	Real-Time	Transmission Outage PGAE
825	5/15/2009	PGAE	Real-Time	Transmission Outage PGAE
826	5/15/2009	Intertie	Real-Time	System Energy
827	5/15/2009	Intertie	Real-Time	System Energy
828	5/15/2009	Intertie	Real-Time	System Energy

Market Disruption Report
April 16 to May 15, 2009

June 15, 2009

ISO Market Services

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I. Background

A. The ISO's Market Disruption Reporting

A Market Disruption is an action or event that causes a failure of a CAISO Market, related to system operation issues or System Emergencies.[1] Pursuant to Section 7.7.15 of the CAISO Tariff, the ISO can take one or more of a number of specified actions in the event of a Market Disruption, to prevent a Market Disruption, or to minimize the extent of a Market Disruption.

In an order issued in Docket Nos. ER06-615-023 and ER07-1257-005 on March 9, 2009,[2] the Commission conditionally accepted tariff provisions related to Market Disruptions and other matters that the ISO had submitted in an earlier compliance filing, effective upon the implementation of the ISO's Market Redesign and Technology Upgrade ("MRTU").[3] Also, the Commission directed the ISO to file, on compliance, tariff provisions requiring the ISO to submit informational Market Disruption reports that contain the following information:

- The frequency and types of actions taken by the ISO pursuant to Section 7.7.15;
- The nature of the Market Disruptions that caused the ISO to take action, or the Market Disruptions that were successfully prevented or minimized by the ISO as a result of taking action, and the ISO's rationale for taking such actions pursuant to Section 7.7.15;
- Information about the Bids (including Self-Schedules) removed pursuant to Section 7.7.15 (*i.e.,* megawatt quantity, point of interconnection, specification of the Day-Ahead versus Real-Time Bid, and Energy or Ancillary Services Bid); and
- The ISO's rationale for its removal of Bids (including Self-Schedules) pursuant to Section 7.7.15.[4]

Pursuant to the directives in the March 9 Order, the ISO submitted a compliance filing on April 8, 2009, that included new Section 7.7.15.4 of the

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[1] These system operation issues or System Emergencies are referred to in Sections 7.6 and 7.7, respectively, of the CAISO Tariff. CAISO Tariff, Appendix A, definition of Market Disruption.

[2] *California Independent System Operator Corp.*, 126 FERC ¶ 61,211 (2009) ("March 9 Order").

[3] MRTU became effective on March 31, 2009, for the Day-Ahead Market for the April 1, 2009, Trading Day.

[4] *Id.* at P 29 & n.29.

CAISO Tariff. Section 7.7.15.4 requires the ISO to submit reports that contain the information listed above.[5]

B. Timing of the ISO's Market Disruption Reports

In the March 9 Order, the Commission directed the ISO to file its first report on Market Disruptions within 60 days of the implementation of MRTU and to file each subsequent Market Disruption report every 60 days thereafter.[6] The ISO filed its first Market Disruption report on May 15, 2009, as corrected on May 18, 2009 ("May 2009 Report").

The May 2009 Report concerned Market Disruptions that occurred during the time period from MRTU implementation through April 15, 2009.[7] As the ISO explained in the May 2009 Report, the ISO proposes to file each subsequent report on a monthly basis rather than every 60 days. Filing on a monthly basis means that each subsequent report will be submitted well within the 60-day time period stated in the March 9 Order. Also, in the May 2009 Report, the ISO explained that it proposes to file its monthly reports on the fifteenth day of each month to cover the time period ending on the fifteenth day of the prior month, thus giving the ISO 30 days to analyze and validate the data and draft the report. Consistent with these proposals, the ISO's second report is being filed on June 15, 2009, and concerns Market Disruptions that occurred from April 16 through May 15, 2009.[8]

II. Report on Market Disruptions Occurring from April 16 Through May 15, 2009

The ISO's report on Market Disruptions that occurred during the time period from April 16 through May 15, 2009, is provided in Attachment A and Table 1, below. As required by the March 9 Report and Section 7.7.15.4 of the CAISO Tariff, the report details the frequency of the Market Disruptions as well as the types of actions taken by the ISO pursuant to Section 7.7.15 of the CAISO Tariff. In addition, the report catalogs the nature of the Market Disruptions and the rationale for any actions taken. The report also includes information about

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[5] Commission action on the compliance filing is pending.

[6] March 9 Order at P 29.

[7] The May 2009 Report also included a report on Exceptional Dispatches that occurred during that same time period. See the discussion in the Exceptional Dispatch report submitted concurrently with this report.

[8] May 2009 Report at 1-2. In the May 2009 Report, the ISO explained that it had also made these proposals in the answer to comments and protests the ISO filed on April 28, 2009, in the Exceptional Dispatch proceeding (Docket Nos. ER08-1178 and EL08-88). If the Commission denies any of the proposals, the ISO will modify its future reporting of Market Disruptions in accordance with the Commission's directives.

any Bids (including Self-Schedules) removed as a result of a Market Disruption pursuant to Section 7.7.15, and the rationale for their removal.

A Market Disruption is defined as an action or event that causes a failure of a CAISO Market related to system operations issues or System Emergencies.[9] The ISO interprets this to mean that a Market Disruption occurs and the ISO is obligated to report its occurrence in any of the following circumstances:

- When any of the ISO market processes fail to publish, including the Integrated Forward Market ("IFM"), Residual Unit Commitment ("RUC"), Hour-Ahead Scheduling Process ("HASP"), Real-Time Pre-Dispatch ("RTPD"), or Real-Time Dispatch ("RTD") processes;

- When the ISO manually overrides the closing of the Day-Ahead Market; or

- Any time that the ISO removes Bids from a CAISO Market to prevent a Market Disruption or to minimize the extent of a Market Disruption.

Attachment A includes an entry for each reportable Market Disruption event that occurred from April 16 through May 15, 2009. Each entry also indicates:

(1) the date of the Market Disruption;
(2) the hour and Dispatch Interval when the Market Disruption ended;
(3) the type of CAISO Market in which the Market Disruption occurred; and
(4) a description of the nature of the Market Disruption, the nature of any actions taken by the ISO, the rationale for such actions, and the Market Disruption prevented or minimized as a result of taking such actions.

Table 1 lists, for each type of ISO Market, the number of Market Disruptions and the number of times that the ISO removed Bids (including Self-Schedules) during the time period covered by this report. As shown in Table 1, there were a total of 63 Market Disruptions for the reporting period. This is a sharp decline in the frequency of Market Disruptions as compared with the results shown in the May 2009 Report, which indicated that a total of 104 Market Disruptions occurred during the two-week period from April 1 through April 15. Table 1 also indicates that no reportable events occurred in the Day-Ahead Market (IFM or RUC) and that the ISO did not remove any Bids (including Self-Schedules) during the reporting period.

[9] See footnote 1, above, and accompanying text.

The majority of the Market Disruption events reported in Table 1 and Attachment A pertain to a failure of the RTPD market process. There were 38 total instances of RTPD failure, including nine HASP failures. On average, RTPD failures occurred with a frequency of slightly over one instance per day. This represents a significant decline in frequency from the previous Market Disruption Report where RTPD failures occurred about 2.5 times per day, on average. The predominant reason for the 9 HASP failures was a lack of Bid transfer or other input data into the RTPD.

Likewise, failures of the RTD market process also declined in frequency to less than one instance per day, on average. This contrasts with over 4 instances per day during the previous reporting period. In many instances, it is not possible to determine with great precision why these five-minute intervals failed. However, for each such entry in Attachment A, the ISO indicates whether the RTD failed due to missing input data, due to the application run timing out, or due to an application or broadcast failure. Sixty percent of the RTD Market Disruption events reported in Attachment A were due to missing input data from another application or missing broadcasts from RTD.

Table 1: Summary of Market Disruption Report

Type of CAISO Market	Market Disruption or Reportable Events	Removal of Bids (including Self-Schedules)
Day-Ahead		
IFM	0	0
RUC	0	0
Real-Time		
Real Time Pre-Dispatch Interval 1	7	0
Real Time Pre-Dispatch Interval 2	11	0
Real Time Pre-Dispatch Interval 3	13	0
Real Time Pre-Dispatch Interval 4	7	0
Real Time Dispatch	25	0

ATTACHMENT A

California Independent System Operator Corporation
Market Disruption Report
June 15, 2009

Market Disruptions, Nature of Actions Taken by the California ISO, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions

Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
1	4/16/2009	19	2	HASP	HASP failed due to late bids. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
2	4/16/2009	21	8	RTD	History tables did not transfer. Loss clearing payload and LMP filled from last good interval.
3	4/16/2009	23	3	RTD	RTD broadcast missing. Loss clearing payload and LMP filled from last good interval.
4	4/16/2009	23	4	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
5	4/17/2009	4	4	RTPD	RTPD failed to finish completely due to system issue. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
6	4/17/2009	4	11	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
7	4/17/2009	4	12	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
8	4/17/2009	12	6	RTD	RTD application timed out. Loss clearing payload and LMP filled in with last good interval.
9	4/17/2009	12	8	RTD	RTD broadcast missing. Loss clearing payload and LMP filled from last good interval.
10	4/17/2009	14	2	RTPD	HASP failed for AS only due to late bids. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
11	4/17/2009	15	2	HASP	HASP timed out. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
12	4/19/2009	23	3	RTPD	RTPD failed due to NA analysis failure. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
13	4/22/2009	1	3	RTPD	STUC failed due to late bids. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
14	4/22/2009	16	2	HASP	Bids did not arrive in time for the start of HASP. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and res awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
15	4/22/2009	16	3	RTPD	RTPD failed due to missing broadcast. Related to the previous HASP failure. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
16	4/23/2009	1	1	RTD	RTD broadcast missing. Loss clearing payload and LMP filled from last good interval.
17	4/23/2009	16	4	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from last good interval.
18	4/23/2009	24	1	RTD	RTD broadcast missing. Loss clearing payload and LMP filled from last good interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
19	4/27/2009	18	1	RTPD	RTPD failed due to software issues. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
20	4/28/2009	4	2	HASP	HASP failed due to late bids. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
21	4/28/2009	4	3	RTPD	STUC failed due to late bids. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
22	4/28/2009	7	4	RTD	RTD broadcast missing. Loss clearing payload and LMP filled from last good interval.
23	4/28/2009	15	4	RTD	RTD application timed out. Loss clearing payload and LMP filled in with last good interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
24	4/28/2009	17	2	HASP	Bids did not arrive in time for the start of HASP. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
25	4/29/2009	8	3	RTPD	RTPD failed. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
26	4/29/2009	16	1	RTPD	RTPD failed. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
27	4/30/2009	1	3	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
28	4/30/2009	1	3	RTPD	RTPD did not run. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
29	4/30/2009	1	4	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.

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Market Disruptions, Nature of Actions Taken by the California ISO, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions

Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
30	4/30/2009	1	4	RTPD	RTPD did not run. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
31	4/30/2009	1	5	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
32	4/30/2009	1	6	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
33	4/30/2009	1	7	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
34	4/30/2009	1	8	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
35	4/30/2009	1	9	RTD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.
36	4/30/2009	1	10	RTD	RTD application timed out. Loss clearing payload and LMP filled in with last good interval.
37	4/30/2009	2	1	RTPD	RTPD did not run. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
38	4/30/2009	15	1	RTPD	RTD did not run due to missing inputs. Loss clearing payload and LMP filled from last good interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
39	5/1/2009	4	10	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from last good interval.
40	5/1/2009	7	2	HASP	HASP failed due to software issues. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
41	5/1/2009	19	7	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
42	5/2/2009	5	2	HASP	HASP failed due to software issues. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.

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Market Disruptions, Nature of Actions Taken by the California ISO, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions

Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
43	5/3/2009	9	3	RTPD	STUC failed due to manual update of load forecast. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
44	5/3/2009	13	2	RTPD	LMPM failed in MPM due to pricing run failure. MQS rebroadcast pnode clearing and resource awards for this interval, as well as for all of HE 14.
45	5/3/2009	13	4	RTPD	RTPD failed due to pricing run infeasibility. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
46	5/5/2009	1	11	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
47	5/6/2009	16	1	RTPD	RTPD failure due to missing load forecast. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
48	5/6/2009	17	7	RTD	RTD application timed out. Loss clearing payload and LMP filled in with last good interval.
49	5/8/2009	10	10	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from last good interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
50	5/9/2009	4	3	RTPD	HASP run produced undesirable intertie schedules due to missing load forecast. Used DA schedules for the interties for the hour. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
51	5/9/2009	4	4	RTPD	HASP run produced undesirable intertie schedules due to missing load forecast. Used DA schedules for the interties for the hour. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
52	5/9/2009	5	1	RTPD	HASP run produced undesirable intertie schedules due to missing load forecast. Used DA schedules for the interties for the hour. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
53	5/9/2009	14	2	HASP	Missed HASP run due to no bids. Market Disruptions limited to one interval. Critical systems manually broadcasted clean bids. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
54	5/9/2009	14	3	RTPD	Missed STUC run due to no bids. Critical systems manually broadcasted clean bids. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
55	5/9/2009	14	4	RTPD	SIBR did not broadcast clean bids after market close. Critical systems manually broadcasted clean bids.
56	5/10/2009	15	1	RTPD	RTPD failed due to missing load forecast. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
57	5/10/2009	15	2	HASP	HASP run failed due to missing load forecast. Market Disruptions limited to one interval. ISO issued a Market Notification Service notice instructing resources to follow Day-Ahead Schedules and Awards for interties. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval. Any incremental or decremental Real-Time Energy at the interties beyond the Day-Ahead Schedules that was not dispatched by the ISO is treated as Operational Adjustment for (Tier 2) for Settlement purposes.
58	5/10/2009	15	3	RTPD	STUC bids failed due to software issue. This is an existing vendor variance. Critical systems manually broadcasted clean bids. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.

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Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
59	5/11/2009	15	3	RTPD	STUC bids failed due to software issue. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
60	5/11/2009	15	4	RTPD	STUC bids failed due to known Oracle client issue. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
61	5/12/2009	4	3	RTPD	RTPD failed. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
62	5/13/2009	10	3	RTPD	STUC Bids late and incomplete. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.
63	5/13/2009	15	4	RTPD	Application did not run. These Intervals were filled either automatically or Interactively. MQS published pnode clearing and resource awards for this interval.

Notes:
Integrated Forward Market (IFM): The Day-Ahead Market run in which the ISO conducts the market for purchases and sales of Energy for all hours of the next Trading Day based on submitted supply and demand bids, and performs the procurement of Ancillary Services.
Residual Unit Commitment (RUC): The Day-Ahead Market run in which the ISO conducts unit commitment of additional resources based on submitted availability bids and the forecast of demand for every hour of the next Trading Day.
Real-Time Pre-Dispatch (RTPD) Interval 1: The first of a series of four market runs conducted every Trading Hour. In run the ISO conducts the Market Power Mitigation of submitted Bids, which applies to all of the Real-Time Market processes for the given Trading Hour and the Hour-Ahead Scheduling Process (HASP), which applies to non-dynamic external resources for the next Trading Hour. In this interval the ISO also conducts the procurement of incremental Ancillary Services from internal resources and dynamic external resources.
Real-Time Pre-Dispatch (RTPD) Interval 2: The second of a series of four market runs conducted every Trading Hour during which the ISO conducts the HASP. In the HASP, the ISO conducts the procurement and sale of Energy and Ancillary services for the next Trading Hour from non-dynamic external resources based on submitted Bids and the demand forecast. In this interval the ISO also conducts the procurement of incremental Ancillary Services from internal resources and dynamic external resources for the given Trading Hour.
Real-Time Pre-Dispatch (RTPD) Interval 3: The third of a series of four market runs conducted every Trading Hour. During this interval the ISO conducts the commitment of internal Short-Start and Fast Start Units for the Time Horizon of the Real-Time Unit Commitment, that is over four hours. In this interval the ISO also conducts the procurement of incremental Ancillary Services from internal resources and dynamic external resources for the given Trading Hour.
Real-Time Pre-Dispatch (RTPD) Interval 4: The fourth of a series of four market runs conducted every Trading Hour during which ISO conducts the procurement of incremental Ancillary Services from internal resources and dynamic external resources for the given Trading Hour.
Real-Time Dispatch (RTD): The five minute interval of any given Trading Hour during which the ISO conducts the market for Energy based on submitted bids and the short-term demand forecast.

CERTIFICATE OF SERVICE

I hereby certify that I have served the foregoing document upon the parties listed on the official service list in the captioned proceeding, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure
(18 C.F.R. § 385.2010).

Dated at Folsom, California this 15th day of June, 2009.

/s/ Anna Pascuzzo
Anna Pascuzzo