

November 15, 2011

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-___ and ER07-1257-___ Market Disruption Report

Dear Secretary Bose:

The California Independent System Operator Corporation (ISO) hereby submits its July/August report covering Market Disruptions reportable events under Section 7.7.15 of its FERC Electric Tariff (ISO Tariff) that occurred from September 16, 2011 to October 15, 2011.¹

Please contact the undersigned with any questions.

Respectfully submitted,

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The ISO submits the Market Disruption report pursuant to *California Independent System Operator Corp.*, 126 FERC ¶ 61,211 (2009), and Section 7.7.15.4 of the ISO Tariff.



Market Disruption Report September 16, 2011 to October 15, 2011

November 15, 2011

ISO Department of Market Services

I. Background

A Market Disruption is an action or event that causes a failure of a CAISO Market, related to system operation issues or System Emergencies. Pursuant to Section 7.7.15 of the ISO Tariff, the California Independent System Operator Corporation (ISO or CAISO) 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. 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 Unit Commitment ("RTUC"), 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.

The Market Disruption report contains 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 7.7.15.²

These system operation issues or System Emergencies are referred to in Sections 7.6 and 7.7, respectively, of the ISO Tariff. ISO Tariff, Appendix A, definition of Market Disruption. Capitalized terms not otherwise defined herein have the meanings set forth in the ISO Tariff.

² *Id.* at P 29 & n.29.

II. Report on Market Disruptions Occurring from September 16, 2011 through October 15, 2011

The ISO's report on Market Disruptions that occurred during the time period from September 16, 2011 through October 15, 2011, is provided in Table 1 and Attachment A below. Attachment A includes an entry for each reportable Market Disruption event and 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.

For each of the CAISO Markets, Table 1 lists 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 109 Market Disruptions for the reporting period, all of which occurred in the Real-Time Market (RTM). The number of Market Disruptions decreased as compared with the October 2011 report. Table 1 also indicates that the ISO did not remove any Bids (including Self-Schedules) in any of its markets during the reporting period.

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 Unit Commitment Interval 1	1	0
Real-Time Unit Commitment Interval 2	7	0
Real-Time Unit Commitment Interval 3	5	0
Real-Time Unit Commitment Interval 4	4	0
Real-Time Dispatch	92	0

Table 1 and Attachment A indicate that there were 17 instances of RTUC failures, including 7 HASP failures. The count of RTUC failures and HASP

failures decreased by 7 compared with the October 2011 Report. Most of the RTUC failures (including the HASP failures) were caused by broadcast failure, software application failure, software application not running, and database issue. The frequency of RTD failures decreased to 92 from 194 of such instances reported in the October 2011 Report. Most of the RTD failures were due to software application failure, software application timing out, database issue, and broadcast results failure. RTD failures accounted for approximately 84 percent of all of the Market Disruptions during this reporting period.

On September 25, five RTD failures occurred due to broadcast issues.

On September 27, six RTD failures, two RTUC failures, and one HASP failure occurred due to broadcast issues and other reasons.

On October 10, eighteen RTD failures occurred mainly due to software issues and broadcast issues. On October 13, nine RTD failures and three RTUC failures occurred due to the same reasons.

On October 14, twenty seven RTD failures, three RTUC failures and one HASP failure occurred mainly due to software issues and broadcast issues.

On February 8, 2011, the ISO suspended the following intertie locations from the list of convergence bidding eligible locations due to real-time physical schedule cuts:

INTERM1G_7_N501 GONDER_2_N501 MONA_3_N501 MARKETPL_5_N501 MEADN_2_N501 MEAD_5_N501 WESTWING_5_N501 FOURCORN_3_N501 MCCULLGX_5_N501

The ISO exercised its authority under Section 7.9, 7.7.15 and 31.8 of the ISO tariff. The rules implemented to enforce tariff section 31.8 did not work at the identified suspended locations. These locations were returned to service as of July 20, 2011 and are no longer suspended. The market notice information the market is available at the following link:

http://www.caiso.com/Documents/ConvergenceBiddingIntertieLocationsRe-enabled_TradingDateJuly20.htm

ATTACHMENT A

California Independent System Operator Corporation Market Disruption Report November 15, 2011

Table 1: 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	9/16/2011	20	4	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
2	9/19/2011	5	10	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
3	9/19/2011	5	11	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
4	9/19/2011	10	10	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
5	9/23/2011	21	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
6	9/23/2011	21	6	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
7	9/24/2011	3	2	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
8	9/24/2011	18	8	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.

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
9	9/25/2011	16	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
10	9/25/2011	21	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
11	9/25/2011	21	6	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
12	9/25/2011	21	11	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
13	9/25/2011	21	12	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
14	9/26/2011	4	1	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
15	9/27/2011	8	2	HASP	Broadcast of HASP results failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
16	9/27/2011	10	10	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
17	9/27/2011	10	12	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
18	9/27/2011	16	3	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
19	9/27/2011	16	4	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
20	9/27/2011	16	6	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.

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
21	9/27/2011	16	7	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
22	9/27/2011	16	8	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
23	9/27/2011	16	12	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
24	9/28/2011	17	3	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
25	9/28/2011	20	2	HASP	HASP failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
26	10/3/2011	3	11	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
27	10/3/2011	19	3	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
28	10/4/2011	23	4	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
29	10/6/2011	14	4	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good interval.
30	10/6/2011	14	5	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
31	10/7/2011	10	2	HASP	HASP failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
32	10/9/2011	12	2	HASP	HASP failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.

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
33	10/9/2011	20	2	HASP	HASP failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
34	10/10/2011	14	4	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
35	10/10/2011	14	5	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
36	10/10/2011	14	6	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
37	10/10/2011	14	7	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
38	10/10/2011	14	8	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
39	10/10/2011	14	9	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
40	10/10/2011	14	10	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
41	10/10/2011	14	11	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
42	10/10/2011	14	12	RTD	RTD failed due to software patch deployment. Loss clearing payload and LMP filled from last good interval.
43	10/10/2011	20	2	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
44	10/10/2011	20	5	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good interval.

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
45	10/10/2011	20	6	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good interval.
46	10/10/2011	21	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
47	10/10/2011	21	2	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
48	10/10/2011	21	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
49	10/10/2011	23	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
50	10/10/2011	23	2	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
51	10/10/2011	24	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
52	10/11/2011	1	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
53	10/11/2011	4	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
54	10/11/2011	4	2	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
55	10/11/2011	5	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
56	10/11/2011	5	2	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.

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
57	10/11/2011	15	1	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good interval.
58	10/11/2011	15	2	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good interval.
59	10/12/2011	16	4	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
60	10/12/2011	24	2	HASP	RTUC failed due to MPM failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
61	10/12/2011	24	11	RTD	RTD failed due to new DB model deployment. Loss clearing payload and LMP filled from last good interval.
62	10/12/2011	24	12	RTD	RTD failed due to new DB model deployment. Loss clearing payload and LMP filled from last good interval.
63	10/13/2011	15	7	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
64	10/13/2011	15	9	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
65	10/13/2011	16	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
66	10/13/2011	18	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
67	10/13/2011	18	9	RTD	RTD did not run due to software issue. Loss clearing payload and LMP filled from last good interval.
68	10/13/2011	18	10	RTD	RTD did not run due to software issue. Loss clearing payload and LMP filled from last good interval.

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
69	10/13/2011	18	11	RTD	RTD did not run due to software issue. Loss clearing payload and LMP filled from last good interval.
70	10/13/2011	18	12	RTD	RTD did not run due to software issue. Loss clearing payload and LMP filled from last good interval.
71	10/13/2011	19	1	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
72	10/13/2011	19	2	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
73	10/13/2011	19	3	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
74	10/13/2011	20	4	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
75	10/14/2011	9	12	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
76	10/14/2011	10	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
77	10/14/2011	10	2	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
78	10/14/2011	10	3	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
79	10/14/2011	10	4	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
80	10/14/2011	10	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.

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
81	10/14/2011	10	6	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
82	10/14/2011	10	7	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
83	10/14/2011	10	8	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
84	10/14/2011	10	9	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
85	10/14/2011	10	10	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
86	10/14/2011	10	11	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
87	10/14/2011	10	12	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
88	10/14/2011	11	1	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
89	10/14/2011	11	2	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
90	10/14/2011	11	3	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
91	10/14/2011	11	4	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
92	10/14/2011	11	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.

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
93	10/14/2011	11	6	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
94	10/14/2011	11	7	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
95	10/14/2011	11	9	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
96	10/14/2011	11	10	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
97	10/14/2011	12	10	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
98	10/14/2011	12	11	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
99	10/14/2011	14	8	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
100	10/14/2011	14	11	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
101	10/14/2011	19	2	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
102	10/14/2011	20	3	RTUC	RTUC failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
103	10/14/2011	20	4	RTUC	RTUC failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
104	10/14/2011	21	1	RTUC	RTUC failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.

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
105	10/14/2011	21	2	HASP	HASP failed due to software issues. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
106	10/15/2011	1	1	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
107	10/15/2011	1	3	RTD	RTD failed. Loss clearing payload and LMP filled from last good interval.
108	10/15/2011	3	5	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good interval.
109	10/15/2011	3	6	RTD	RTD failed due to software issues. Loss clearing payload and LMP filled from last good 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 Unit commitment (RTUC) Interval 1: The first of a series of four market runs conducted every Trading Hour in advance of the Operating Hour. In this run the ISO conducts the Market Power Mitigation and Reliability Requirement Determination for submitted Bids, which applies to all of the Real-Time Market processes for the given Trading Hour. In this interval the ISO also conducts the procurement of incremental Ancillary Services from internal resources and dynamic external resources.

Real-Time Unit commitment (RTUC) Interval 2: The second of a series of four market runs conducted every Trading Hour in advance of the Operating Hour during which the ISO conducts the HASP. In the HASP, the ISO conducts the procurement and sale of Energy and Ancillary services from non-dynamic System Resources based on submitted Bids and the CAISO Forecast of CAISO Demand. In this interval the ISO also conducts the advisory procurement of incremental Ancillary Services from internal resources and dynamic external resources from T to T+60 minutes and procurement for the given Trading Hour.

Real-Time Unit commitment (RTUC) 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 T-30 minutes to T+240 minutes. 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 Unit commitment (RTUC) Interval 4: The fourth of a series of four market runs conducted every Trading Hour. This interval is for the Real-time Unit Commitment for the T-105 minutes to T+60 minutes time horizon. In this interval the ISO also conducts 15-minute Ancillary Service Awards for non-Hourly System Resources, internal resources and dynamic external resources for the given Trading Hour.

Real-Time Dispatch (RTD): The five minute interval of any given Operating Hour during which the ISO conducts the market for Energy based on submitted bids and the CAISO Forecast of CAISO Demand.

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 proceedings, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated at Folsom, California this 15th day of November, 2011.

Isl Anna Pascuzzo

Anna Pascuzzo