



California Independent
System Operator Corporation

December 15, 2010

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 Sept/Oct report covering Market Disruptions reportable events under Section 7.7.15 of its FERC Electric Tariff (ISO Tariff) that occurred from September 16, 2010 to October 15, 2010.¹

Please contact the undersigned with any questions.

Respectfully submitted,

By: /s/ Anna McKenna

Nancy Saracino
General Counsel
Anthony Ivancovich
Assistant General Counsel
Anna McKenna
Senior Counsel
California Independent System
Operator Corporation
151 Blue Ravine Road
Folsom, CA 95630
Tel: (916) 608-7209
Fax: (916) 608-7296
amckenna@caiso.com

¹ 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.



California ISO
Your Link to Power

Market Disruption Report October 16, 2010 to November 15, 2010

December 15, 2010

ISO Department of Market Services

CAISO
151 Blue Ravine Road
Folsom, California 95630
(916) 351-4400

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.¹ Pursuant to Section 7.7.15 of the CAISO 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

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. Capitalized terms not otherwise defined herein have the meanings set forth in the CAISO Tariff.

² *Id.* at P 29 & n.29.

II. Report on Market Disruptions Occurring from October 16, 2010 through November 15, 2010

The ISO’s report on Market Disruptions that occurred during the time period from October 16, 2010 through November 15, 2010, 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 118 Market Disruptions for the reporting period, 113 of which occurred in the Real-Time Market (RTM) and 5 of which occurred in the Day-Ahead Market. The number of Market Disruptions increased significantly as compared with the November 2010 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	5	0
RUC	5 ³	0
Real-Time		
Real-Time Unit Commitment Interval 1	11	0
Real-Time Unit Commitment Interval 2	10	0
Real-Time Unit Commitment Interval 3	15	0
Real-Time Unit Commitment Interval 4	11	0
Real-Time Dispatch	67	0

³ The five events reported for RUC are as a result of the same issue that impacted the Day-Ahead Market as a whole.

Table 1 and Attachment A indicate that there were 47 instances of RTUC failures, including ten HASP failures. The count of RTUC failures and HASP failures increased significantly by 28 compared with the November 2010 Report. Most of the RTUC failures (including the HASP failure) were caused by software application failure, software application not running, failover issue, database issue or the installment of RTN multi-stage generating resources software platform.⁴ The frequency of RTD failures increased to 67 from 61 such instances reported in the November 2010 Report. Most of the RTD failures were due to software application failure, software application timing out, failover issues, database issue, broadcast results failure or the installment of RTN multi-stage generating resources software platform. RTD failures accounted for approximately 57 percent of all of the Market Disruptions during this reporting period.

On October 24, there were thirteen RTD failures, along with four RTUC failures and two HASP failures due to database issues in Alhambra. On October 28, six RTD failures and four RTUC failures occurred due to ADS/EMS fallbacks. On October 31, four RTD failures and six RTUC failures, including HASP failures occurred due to DB 50 FNM promotion. On November 2, four RTD failures and one RTUC failure occurred due to broadcast results failure.

On November 3, there were twelve RTUC failures and twelve RTD failures along with four HASP failures due to the installment of RTN multi-stage generating resources software platform. On November 8, five RTD failures and two RTUC failures occurred due to issues with the integration layer being down. One RTUC failures occurred on the same day due to a lock in the SIBR database.

On November 11, four RTD failures and two RTUC failures occurred due to failover from Alhambra to Folsom. Four RTD broadcast failures occurred on the same day due to issues with the ADS adaptor after the failover from Alhambra. On November 15, three RTUC failures and one HASP failure occurred due to bids not received in time.

Finally, the ISO reports that for trade dates October 16 through 20, 2010, the ISO experienced a problem with its software data array that contains start-up costs for generating resources used in clearing the IFM. The array filled up and prevented further entries, which resulted in the IFM solving without consideration of start-up costs. During this condition, the ISO proceeded with the IFM market using submitted bids, including self-schedules, to the extent possible and due to

⁴ The software platform enhancements in support of the new multi-stage generating resource functionality was installed on November 15, 2010, which included software enhancements not related to the multi-stage generating resources functionality. The multi-stage generating resource functionality itself was actually deployed for trade date December 7, 2010.

the minimal impact of this software issue on the market solution retained the solution cleared through the IFM for those affected days as valid.

ATTACHMENT A

**California Independent System Operator Corporation
Market Disruption Report
December 15, 2010**

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	10/19/2010	17	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
2	10/22/2010	4	6	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
3	10/22/2010	22	7	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
4	10/24/2010	7	2	HASP	HASP failed due to DB issues in Alhambra. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
5	10/24/2010	7	3	RTUC	RTUC did not run due to DB issues in Alhambra.. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
6	10/24/2010	7	4	RTUC	RTUC did not run due to DB issues in Alhambra.. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for

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
					this interval.
7	10/24/2010	7	8	RTD	Broadcast of RTD results failed due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
8	10/24/2010	7	9	RTD	Broadcast of RTD results failed due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
9	10/24/2010	7	10	RTD	Broadcast of RTD results failed due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
10	10/24/2010	7	11	RTD	Broadcast of RTD results failed due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
11	10/24/2010	7	12	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
12	10/24/2010	8	1	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
13	10/24/2010	8	1	RTUC	RTUC did not run due to DB issues in Alhambra.. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
14	10/24/2010	8	2	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
15	10/24/2010	8	2	HASP	HASP failed due to DB issues in Alhambra. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.

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
16	10/24/2010	8	3	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
17	10/24/2010	8	3	RTUC	RTUC did not run due to DB issues in Alhambra.. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
18	10/24/2010	8	4	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
19	10/24/2010	8	5	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
20	10/24/2010	8	6	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
21	10/24/2010	8	7	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
22	10/24/2010	8	8	RTD	RTD did not run due to DB issues in Alhambra. Loss clearing payload and LMP filled from last good interval.
23	10/28/2010	15	1	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
24	10/28/2010	15	3	RTUC	RTUC did not run as RTUC was placed in manual for ADS/EMS fallbacks. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
25	10/28/2010	15	4	RTD	RTD did not run due to ADS/EMS fallbacks. Loss clearing payload and LMP filled from last good interval.
26	10/28/2010	15	4	RTUC	RTUC did not run as RTUC was placed in manual for ADS/EMS fallbacks. 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
27	10/28/2010	15	5	RTD	RTD did not run due to ADS/EMS fallbacks. Loss clearing payload and LMP filled from last good interval.
28	10/28/2010	15	6	RTD	RTD did not run due to ADS/EMS fallbacks. Loss clearing payload and LMP filled from last good interval.
29	10/28/2010	15	7	RTD	RTD did not run due to ADS/EMS fallbacks. Loss clearing payload and LMP filled from last good interval.
30	10/28/2010	15	8	RTD	RTD did not run due to ADS/EMS fallbacks. Loss clearing payload and LMP filled from last good interval.
31	10/28/2010	15	9	RTD	RTD did not run due to ADS/EMS fallbacks. Loss clearing payload and LMP filled from last good interval.
32	10/28/2010	16	1	RTUC	RTUC did not run as RTUC was placed in manual for ADS/EMS fallbacks. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
33	10/29/2010	18	4	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
34	10/30/2010	6	3	RTUC	Broadcast of RTUC results failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
35	10/30/2010	6	8	RTD	RTD did not run due to RTD placed in manual mode for ADS issues. Loss clearing payload and LMP filled from last good interval.
36	10/30/2010	6	9	RTD	RTD did not run due to RTD placed in manual mode for ADS issues. Loss clearing payload and LMP filled from last good interval.
37	10/31/2010	2	1	RTUC	Broadcast of RTUC results failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
38	10/31/2010	20	4	RTUC	RTUC failed. 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
39	10/31/2010	21	1	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
40	10/31/2010	21	2	HASP	HASP failed. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
41	10/31/2010	21	3	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
42	10/31/2010	24	1	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
43	10/31/2010	24	2	HASP	HASP failed. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
44	10/31/2010	24	4	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
45	10/31/2010	24	7	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
46	10/31/2010	24	11	RTD	RTD did not run due to FNM DB 50 promotion. Loss clearing payload and LMP filled from last good interval.
47	10/31/2010	24	12	RTD	RTD did not run due to FNM DB 50 promotion. 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
48	11/1/2010	12	2	HASP	HASP failed due to compensating injection related issue. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
49	11/1/2010	16	7	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
50	11/1/2010	24	12	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
51	11/2/2010	12	10	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
52	11/2/2010	12	11	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
53	11/2/2010	12	12	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
54	11/2/2010	13	1	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
55	11/2/2010	13	1	RTUC	Broadcast of RTUC results failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
56	11/3/2010	14	4	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
57	11/3/2010	14	4	RTUC	RTUC did not run due to RTN MSG deployment. 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
58	11/3/2010	14	5	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
59	11/3/2010	14	6	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
60	11/3/2010	14	7	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
61	11/3/2010	14	8	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
62	11/3/2010	14	9	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
63	11/3/2010	14	10	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
64	11/3/2010	14	11	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
65	11/3/2010	15	1	RTD	RTD failed due to RTN MSG deployment. Loss clearing payload and LMP filled from advisory results.
66	11/3/2010	15	1	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
67	11/3/2010	15	2	HASP	HASP failed due to RTN MSG deployment. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.

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
68	11/3/2010	15	2	RTD	RTD failed due to RTN MSG deployment. Loss clearing payload and LMP filled from advisory results.
69	11/3/2010	15	3	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
70	11/3/2010	16	3	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
71	11/3/2010	16	4	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
72	11/3/2010	17	1	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
73	11/3/2010	17	2	HASP	HASP failed due to RTN MSG deployment. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
74	11/3/2010	17	4	RTUC	RTUC failed due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
75	11/3/2010	18	1	RTD	RTD did not run due to RTN MSG deployment. Loss clearing payload and LMP filled from last good interval.
76	11/3/2010	18	1	RTUC	RTUC did not run due to RTN MSG deployment. 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
77	11/3/2010	18	2	HASP	HASP failed due to RTN MSG deployment. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
78	11/3/2010	18	3	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
79	11/3/2010	18	4	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
80	11/3/2010	19	1	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
81	11/3/2010	22	2	HASP	HASP failed due to RTN MSG deployment. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
82	11/3/2010	22	3	RTUC	RTUC did not run due to RTN MSG deployment. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
83	11/3/2010	24	5	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
84	11/4/2010	22	3	RTUC	RTUC failed due to low count of bids. 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
85	11/4/2010	22	8	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
86	11/5/2010	9	10	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
87	11/5/2010	16	6	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
88	11/5/2010	16	7	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
89	11/5/2010	24	7	RTD	RTD failed due to MIP timeout. Loss clearing payload and LMP filled from advisory results.
90	11/8/2010	13	3	RTUC	Broadcast of RTUC results failed due to issues with the Intergration Layer being down. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
91	11/8/2010	13	4	RTD	Broadcast of RTD results failed due to issues with the Intergration layer being down. Loss clearing payload and LMP filled from last good interval.
92	11/8/2010	13	4	RTUC	Broadcast of RTUC results failed due to issues with the Intergration Layer being down. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
93	11/8/2010	13	5	RTD	Broadcast of RTD results failed due to issues with the Intergration layer being down. Loss clearing payload and LMP filled from last good interval.
94	11/8/2010	13	6	RTD	Broadcast of RTD results failed due to issues with the Intergration layer being down. Loss clearing payload and LMP filled from last good interval.
95	11/8/2010	13	7	RTD	Broadcast of RTD results failed due to issues with the Intergration layer being down. Loss clearing payload and LMP filled from last good interval.
96	11/8/2010	13	8	RTD	Broadcast of RTD results failed due to issues with the Intergration layer being down. 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
97	11/8/2010	18	3	RTUC	RTUC failed due to a lock in the SIBR database. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
98	11/11/2010	15	3	RTD	RTD did not run due to failover from Alhambra to Folsom. Loss clearing payload and LMP filled from last good interval.
99	11/11/2010	15	3	RTUC	RTUC failed due to failover from Alhambra to Folsom. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
100	11/11/2010	15	4	RTD	RTD did not run due to failover from Alhambra to Folsom. Loss clearing payload and LMP filled from last good interval.
101	11/11/2010	15	4	RTUC	RTUC failed due to failover from Alhambra to Folsom. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
102	11/11/2010	15	5	RTD	RTD did not run due to failover from Alhambra to Folsom. Loss clearing payload and LMP filled from last good interval.
103	11/11/2010	15	6	RTD	RTD did not run due to failover from Alhambra to Folsom. Loss clearing payload and LMP filled from last good interval.
104	11/11/2010	15	7	RTD	Broadcast of RTD results failed due to issues with the ADS adapter after the failover. Loss clearing payload and LMP filled from last good interval.
105	11/11/2010	15	8	RTD	Broadcast of RTD results failed due to issues with the ADS adapter after the failover. Loss clearing payload and LMP filled from last good interval.
106	11/11/2010	15	9	RTD	Broadcast of RTD results failed due to issues with the ADS adapter after the failover. Loss clearing payload and LMP filled from last good interval.
107	11/11/2010	15	10	RTD	Broadcast of RTD results failed due to issues with the ADS adapter after the failover. 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
108	11/13/2010	20	1	RTD	Broadcast of RTD results failed due to issues with Intergration layer. Loss clearing payload and LMP filled from last good interval.
109	11/13/2010	20	2	RTD	Broadcast of RTD results failed due to issues with Intergration layer. Loss clearing payload and LMP filled from last good interval.
110	11/14/2010	23	8	RTD	Broadcast of RTD results failed due to issues with Intergration layer. Loss clearing payload and LMP filled from last good interval.
111	11/15/2010	20	2	HASP	HASP failed due to bids not received in time. ISO issued a notice through the Market Notification System instructing resources to follow Day-Ahead Schedules and Awards for interties. This interval was 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 an Operational Adjustment (Tier 2) for Settlement purposes.
112	11/15/2010	20	3	RTUC	RTUC failed due to bids not received in time. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
113	11/15/2010	20	4	RTUC	RTUC failed due to bids not received in time. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
114	10/16/2010	All Hours	All Intervals	DAM	DAM ran without start-up cost because of software data array fill up. DAM ran using submitted bids, including self-schedules, to the extent possible and market solution was retained.
115	10/17/2010	All Hours	All Intervals	DAM	DAM ran without start-up cost because of software data array fill up. DAM ran using submitted bids, including self-schedules, to the extent possible and market solution was retained.
116	10/18/2010	All Hours	All Intervals	DAM	DAM ran without start-up cost because of software data array fill up. DAM ran using submitted bids, including self-schedules, to the extent possible and market solution was retained.

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
117	10/19/2010	All Hours	All Intervals	DAM	DAM ran without start-up cost because of software data array fill up. DAM ran using submitted bids, including self-schedules, to the extent possible and market solution was retained.
118	10/20/2010	All Hours	All Intervals	DAM	DAM ran without start-up cost because of software data array fill up. DAM ran using submitted bids, including self-schedules, to the extent possible and market solution was retained.
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 December, 2010.

Anna Pascuzzo

Anna Pascuzzo