December 16, 2013

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 October/November report covering Market Disruptions reportable events under Section 7.7.15 of its FERC Electric Tariff (ISO Tariff) that occurred from October 16, 2013 to November 15, 2013.[1]

Please contact the undersigned with any questions.

Respectfully submitted,

By: */s/ Anna McKenna*

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[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.

Market Disruption Report
October 16, 2013
to
November 15, 2013

December 16, 2013

ISO Market Quality and Renewable Integration

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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 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 reports Market Disruption 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 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 October 16, 2013 through November 15, 2013

The ISO's report on Market Disruptions that occurred during the time period from October 16, 2013 through November 15, 2013, 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 85 Market Disruptions for the reporting period, all of which occurred in the real-time. 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	4	0
Real-Time Unit Commitment Interval 2	2	0
Real-Time Unit Commitment Interval 3	7	0
Real-Time Unit Commitment Interval 4	2	0
Real-Time Dispatch	70	0

Table 1 and Attachment A indicate that there were 2 HASP disruptions and 13 RTUC disruptions during this reporting period.

The frequency of RTD failures in this report was 70. On October 28, there were about 17 RTD failures and 3 RTUC failures due to Fall 2013 Release. On November 3, there were 8 RTD failures, 3 RTUC failures and 1 HASP failure due

to Database error. On November 7, there were 9 RTD failures and 1 RTUC failure due to Fallback to Alhambra. The RTD failures increased from 59 during the last reporting period to 70. There were about 41 failures during this reporting period due to planned maintenance of software in RTD, HASP and RTUC combined.

ATTACHMENT A

California Independent System Operator Corporation
Market Disruption Report
December 15, 2013

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	10/16/2013	16	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
2	10/16/2013	17	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
3	10/21/2013	3	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
4	10/21/2013	3	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
5	10/21/2013	3	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
6	10/24/2013	5	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
7	10/24/2013	6	9	RTD	RTD failed due to application time-out. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
8	10/24/2013	6	10	RTD	RTD failed due to application time-out. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
9	10/24/2013	6	11	RTD	RTD failed due to application time-out. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
10	10/26/2013	8	12	RTD	RTD failed due application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
11	10/26/2013	22	2	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages

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
12	10/27/2013	7	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
13	10/28/2013	16	3	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance of software
14	10/28/2013	16	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
15	10/28/2013	16	4	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance of software
16	10/28/2013	16	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
17	10/28/2013	16	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
18	10/28/2013	16	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
19	10/28/2013	16	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
20	10/28/2013	16	9	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
21	10/28/2013	16	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
22	10/28/2013	16	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
23	10/28/2013	16	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
24	10/28/2013	17	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
25	10/28/2013	17	1	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance of software

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
26	10/28/2013	17	2	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
27	10/28/2013	20	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
28	10/28/2013	20	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
29	10/28/2013	21	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
30	10/28/2013	21	2	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
31	10/28/2013	21	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
32	10/28/2013	21	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
33	10/29/2013	1	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
34	10/29/2013	16	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
35	10/29/2013	16	3	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance of software
36	10/29/2013	16	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
37	10/29/2013	16	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
38	10/30/2013	17	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
39	10/30/2013	17	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
40	10/31/2013	16	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software

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
41	10/31/2013	16	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
42	11/1/2013	17	10	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval.
43	11/1/2013	17	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
44	11/1/2013	17	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
45	11/1/2013	18	1	RTUC	RTUC failed due to application time-out. Loss clearing payload and LMP filled from previous good interval.
46	11/3/2013	22	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
47	11/3/2013	22	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
48	11/3/2013	23	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
49	11/3/2013	23	1	RTUC	RTUC failed due to application time-out. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
50	11/3/2013	23	2	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
51	11/3/2013	23	2	HASP	HASP did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Software failure. Unplanned outages
52	11/3/2013	23	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
53	11/3/2013	23	3	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Software failure. Unplanned outages
54	11/3/2013	23	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
55	11/3/2013	23	4	RTUC	RTUC did not run due to application problem. 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
56	11/3/2013	23	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
57	11/3/2013	23	9	RTD	RTD failed due application problem. Loss clearing payload and LMP filled from previous good interval.
58	11/4/2013	24	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
59	11/5/2013	19	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
60	11/7/2013	15	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
61	11/7/2013	15	3	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned and mandatory backup site switching
62	11/7/2013	15	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
63	11/7/2013	15	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
64	11/7/2013	15	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
65	11/7/2013	15	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
66	11/7/2013	15	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
67	11/7/2013	15	9	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
68	11/7/2013	15	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
69	11/7/2013	15	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned and mandatory backup site switching
70	11/9/2013	19	2	HASP	HASP did not run due to application problem. 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
71	11/9/2013	21	1	RTD	RTD results were blocked and previous solution used.
72	11/9/2013	21	2	RTD	RTD results were blocked and previous solution used.
73	11/9/2013	21	3	RTD	RTD results were blocked and previous solution used.
74	11/12/2013	14	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
75	11/13/2013	20	3	RTUC	RTUC failed due to application time-out. Loss clearing payload and LMP filled from previous good interval. Software failure. Unplanned outages
76	11/13/2013	21	3	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval.
77	11/14/2013	14	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
78	11/14/2013	14	3	RTUC	RTUC did not run due to application problem. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance of software
79	11/14/2013	14	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
80	11/14/2013	14	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
81	11/14/2013	14	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
82	11/14/2013	14	7	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
83	11/14/2013	14	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
84	11/14/2013	14	9	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance of software
85	11/14/2013	15	1	RTUC	RTUC failed due to HIS failure. This interval was 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 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 16th day of December 2013.

/s/ Anna Pascuzzo

Anna Pascuzzo