July 15, 2016

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 (CAISO) hereby submits its May/June report covering Market Disruption reportable events under Section 7.7.15 of its FERC Electric Tariff (ISO Tariff) that occurred from May 16, 2016 to June 15, 2016.[1]

Please contact the undersigned with any questions.

Respectfully submitted,

By: */s/ Anna A. 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.

California ISO

Market Disruption Report
May 16, 2016 to June 15, 2016

July 15, 2016

CAISO Market Quality and Renewable Integration

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), the Real-Time Market, which includes the Hour-Ahead Scheduling Process (HASP), Fifteen Minute Market (FMM), and the 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]

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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 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 May 16, 2016 through June 15, 2016

The ISO's report on Market Disruptions that occurred during the time period from May 16, 2016 through June 15, 2016, 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 CAISO removed Bids (including Self-Schedules) during the time period covered by this report. As shown in Table 1, there were a total of 106 Market Disruptions for the reporting period. Table 1 also indicates that the CAISO 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		
Fifteen Minute Market Interval 1	7	0
Fifteen Minute Market Interval 2	7	0
Fifteen Minute Market Interval 3	6	0
Fifteen Minute Market Interval 4	10	0
Real-Time Dispatch	76	0

Table 1 above shows the market disruptions in the real time market in order to incorporate the FMM binding intervals.

A majority of the RTD and FMM instances were caused due to a software patch that caused application problems. The frequency of RTD failures increased from 21 to 76 failures in comparison to the April/May 2016 Report. RTD failures

accounted for approximately 72 percent of all of the Market Disruptions during this reporting period.

The most failures occurred on May 19th, May 21st, and June 6th due to planned maintenance. On May 19th, there were a total of 29 (8 FMM, 21 RTD) disruptions and on May 21st there were a total of 12 (3 FMM, 9 RTD) disruptions due to IFM/RTN Patching. On June 6th there were a total of 6 (3 FMM, 3RTD) due to Fallback to Alhambra.

There were also failures on June 11th and June 13th due to software and database issues. On June 11th there were a total of 11 (2 FMM, 9 RTD) disruptions and on June 13th there were a total of 9 (9 RTD) disruptions.

ATTACHMENT A

California Independent System Operator Corporation
Market Disruption Report
June 15, 2016

Table 3: 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	5/16/2016	15	4	FMM	FMM 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.
2	5/16/2016	15	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
3	5/16/2016	15	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
4	5/18/2016	24	3	FMM	FMM 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.
5	5/18/2016	24	4	FMM	FMM 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.
6	5/18/2016	24	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
7	5/18/2016	24	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous 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
8	5/19/2016	1	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
9	5/19/2016	1	1	FMM	FMM 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.
10	5/19/2016	1	2	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
11	5/19/2016	1	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.
12	5/19/2016	1	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
13	5/19/2016	1	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
14	5/19/2016	1	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
15	5/19/2016	14	4	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
16	5/19/2016	14	7	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
17	5/19/2016	14	8	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.

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
18	5/19/2016	14	9	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
19	5/19/2016	14	10	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
20	5/19/2016	14	11	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
21	5/19/2016	14	12	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
22	5/19/2016	15	1	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
23	5/19/2016	15	1	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
24	5/19/2016	15	2	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
25	5/19/2016	15	2	HASP	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
26	5/19/2016	15	3	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
27	5/19/2016	15	3	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.

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
28	5/19/2016	15	4	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
29	5/19/2016	15	4	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
30	5/19/2016	15	5	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
31	5/19/2016	15	6	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
32	5/19/2016	15	7	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
33	5/19/2016	15	8	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
34	5/19/2016	15	9	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
35	5/19/2016	15	10	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
36	5/19/2016	15	11	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
37	5/19/2016	15	12	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.

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
38	5/19/2016	16	1	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
39	5/19/2016	16	1	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
40	5/19/2016	16	2	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
41	5/19/2016	16	2	HASP	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
42	5/19/2016	16	3	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
43	5/19/2016	16	3	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
44	5/20/2016	12	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
45	5/20/2016	12	3	FMM	FMM 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.
46	5/20/2016	12	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
47	5/20/2016	12	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous 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	5/21/2016	18	4	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
49	5/21/2016	18	7	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
50	5/21/2016	18	8	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
51	5/21/2016	18	9	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
52	5/21/2016	18	10	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
53	5/21/2016	18	11	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
54	5/21/2016	18	12	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
55	5/21/2016	19	1	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
56	5/21/2016	19	1	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
57	5/21/2016	19	2	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.

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	5/21/2016	19	2	HASP	HASP did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned Maintenance.
59	5/21/2016	19	3	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned Maintenance.
60	5/27/2016	24	3	FMM	FMM 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.
61	5/27/2016	24	4	FMM	FMM 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.
62	5/28/2016	1	1	FMM	FMM 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.
63	5/29/2016	11	11	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval.
64	5/29/2016	11	12	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
65	5/29/2016	12	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
66	6/1/2016	13	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
67	6/1/2016	13	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
68	6/1/2016	13	3	FMM	FMM failed due to application time-out. Loss clearing payload and LMP filled from previous good interval.
69	6/1/2016	13	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
70	6/1/2016	13	8	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval.
71	6/2/2016	16	4	FMM	FMM 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.
72	6/2/2016	16	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
73	6/2/2016	16	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
74	6/6/2016	15	4	FMM	FMM did not run due to Fallback to Alhambra. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance
75	6/6/2016	15	7	RTD	RTD did not run due to Fallback to Alhambra. Loss clearing payload and LMP filled from previous good interval. Planned maintenance
76	6/6/2016	15	8	RTD	RTD did not run due to Fallback to Alhambra. Loss clearing payload and LMP filled from previous good interval. Planned maintenance

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	6/6/2016	15	9	RTD	RTD did not run due to Fallback to Alhambra. Loss clearing payload and LMP filled from previous good interval. Planned maintenance
78	6/6/2016	16	1	FMM	FMM did not run due to Fallback to Alhambra. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance
79	6/6/2016	16	2	HASP	HASP did not run due to Fallback to Alhambra. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance
80	6/9/2016	15	4	FMM	FMM 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.
81	6/9/2016	15	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
82	6/9/2016	15	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
83	6/11/2016	20	10	RTD	RTD failed due software and Database issues. Loss clearing payload and LMP filled from previous good interval.
84	6/11/2016	20	11	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
85	6/11/2016	20	12	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
86	6/11/2016	21	1	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.

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
87	6/11/2016	21	1	FMM	FMM did not run due to software and Database issues. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval.
88	6/11/2016	21	2	HASP	HASP did not run due to software and Database issues. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval.
89	6/11/2016	21	3	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
90	6/11/2016	21	4	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
91	6/11/2016	21	5	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
92	6/11/2016	21	6	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
93	6/11/2016	21	7	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
94	6/13/2016	7	8	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
95	6/13/2016	7	9	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
96	6/13/2016	7	10	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.

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	6/13/2016	7	11	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
98	6/13/2016	7	12	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
99	6/13/2016	8	1	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
100	6/13/2016	8	3	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
101	6/13/2016	8	4	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
102	6/13/2016	8	5	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval. Software and Database issues.
103	6/13/2016	16	4	FMM	FMM did not run due to patching. This interval was filled either automatically or interactively. MQS published Pnode clearing and resource awards for this interval. Planned maintenance.
104	6/13/2016	16	7	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned maintenance
105	6/13/2016	16	8	RTD	RTD did not run due to patching. Loss clearing payload and LMP filled from previous good interval. Planned maintenance
106	6/14/2016	17	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Planned maintenance

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.
Fifteen Minute Market (FMM) 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 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.
Fifteen Minute Market (FMM) 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.
Fifteen Minute Market (FMM) 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.
Fifteen Minute Market (FMM) Interval 4: The fourth of a series of four market runs conducted every Trading Hour. This interval is for the Fifteen Minute Market 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 July, 2016.

/s/ Anna Pascuzzo
Anna Pascuzzo