

June 16, 2014

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 January/February report covering Market Disruptions reportable events under Section 7.7.15 of its FERC Electric Tariff (ISO Tariff) that occurred from April 16, 2014 to May 15, 2014.¹

Please contact the undersigned with any questions.

Respectfully submitted,

By: /s/ Anna McKenna

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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 April 16, 2014 to May 15, 2014

June 16, 2014

ISO 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), Real-Time Unit Commitment (RTUC), 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

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 April 16, 2014 through May 15, 2014

The ISO's report on Market Disruptions that occurred during the time period from April 16, 2014 through May 15, 2014, 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 and Table 2, there were a total of 119 Market Disruptions for the reporting period, all of which occurred in the real-time. Table 1 and 2 also indicates that the ISO did not remove any Bids (including Self-Schedules) in any of its markets during the reporting period.

On May 1, 2014, the ISO adopted its new FMM and fifteen minute scheduling in the real-time.³

Table 1: Summary of Market Disruption Report (April 16– Up to April 30)

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	2	0
Real-Time Unit Commitment Interval 2	2	0
Real-Time Unit Commitment Interval 3	3	0
Real-Time Unit Commitment Interval 4	2	0
Real-Time Dispatch	38	0

³ California Indep. Sys. Operator Corp., 146 FERC ¶ 61,204 (2014).

Table 2: Summary of Market Disruption Report (May 1 to May 15)

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	4	0
Fifteen Minute Market Interval 2	5	0
Fifteen Minute Market Interval 3	4	0
Fifteen Minute Market Interval 4	3	0
Real-Time Dispatch	56	0

Table 1 above shows the market disruptions in the real time market up to April 30 in order to incorporate the correct binding RTUC intervals. Table 2 above shows the market disruptions in real time market from May 1 to incorporate the FMM binding intervals.

Table 1 and Attachment A indicate that there were 18 instances of RTUC disruptions and 7 instances of HASP disruptions during this reporting period. The count of RTUC failures increased by 11 and the count of HASP failures increased by 6 compared with the April 2014 Report. Most of the RTUC failures (including HASP failures) (16 instances) were caused by spring release cutover on April 30 - May 1, 2014. The frequency of RTD failures increased by 73 from 21 such instances reported in the April 2014 Report. Most of the RTD failures were due to spring release cutover on April 30 – May 1, 2014 and RTD dispatches being blocked and previous solution was used or broadcast of results failure. RTD failures accounted for approximately 79 percent of all of the Market Disruptions during this reporting period.

The frequency of RTD failures in this report was 94. On April 17, there were 7 RTD failures, 1 HASP disruption and 2 RTUC disruptions due to DB promotion. On April 30, 8 intervals in RTD market were blocked and previous solution was used. Also on April 30 and May 1, there were 39 RTD failures and 2 RTUC failures (pre May 1) and 10 FMM failures (post May 1) and 4 HASP failures due to the spring release cutover.

ISO had deployed and activated the Spring 2014 release effective May 1, 2014. The implementation of Spring 2014 release system changes was completed for activation of the Spring 2014 release projects as follows:

- FERC Order 764 Compliance / 15-Minute Market
- Post Emergency Filing BCR changes / Mandatory MSG, combined with RIMPR-Phase 1 / BCR Mitigation Measures / Bid Floor Cap
- Revisions to Price Corrections
- RDRP activation / FERC 745 Compliance

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There were about 54 failures during this reporting period due to spring release cutover and 18 interval failures due to blocked dispatches combined in RTD, RTUC and HASP.

ATTACHMENT A

California Independent System Operator Corporation Market Disruption Report June 15, 2014

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	4/16/2014	15	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Software failure / Unplanned outage
2	4/16/2014	16	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.
3	4/16/2014	16	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.
4	4/16/2014	24	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.
5	4/16/2014	24	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.
6	4/17/2014	1	1	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
7	4/17/2014	1	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.

Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
8	4/17/2014	1	2	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
9	4/17/2014	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.
10	4/17/2014	1	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
11	4/17/2014	1	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.
12	4/17/2014	1	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
13	4/17/2014	1	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
14	4/17/2014	1	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
15	4/17/2014	1	9	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval.
16	4/17/2014	17	5	RTD	RTD failed due application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
17	4/17/2014	17	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch

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	4/17/2014	17	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
19	4/17/2014	17	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
20	4/17/2014	17	9	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
21	4/17/2014	17	10	RTD	RTD results were blocked and previous solution used.
22	4/17/2014	17	11	RTD	RTD results were blocked and previous solution used.
23	4/21/2014	17	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
24	4/25/2014	8	4	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval.
25	4/29/2014	20	1	RTD	RTD results were blocked and previous solution used.
26	4/29/2014	20	2	RTD	RTD results were blocked and previous solution used.
27	4/29/2014	22	12	RTD	RTD results were blocked and previous solution used.

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	4/30/2014	10	1	RTD	RTD results were blocked and previous solution used.
29	4/30/2014	10	2	RTD	RTD results were blocked and previous solution used.
30	4/30/2014	10	3	RTD	RTD results were blocked and previous solution used.
31	4/30/2014	10	4	RTD	RTD results were blocked and previous solution used.
32	4/30/2014	10	7	RTD	RTD results were blocked and previous solution used.
33	4/30/2014	10	8	RTD	RTD results were blocked and previous solution used.
34	4/30/2014	10	9	RTD	RTD results were blocked and previous solution used.
35	4/30/2014	10	10	RTD	RTD results were blocked and previous solution used.
36	4/30/2014	13	4	RTD	RTD failed due application problem. Loss clearing payload and LMP filled from previous good interval.
37	4/30/2014	24	3	RTUC	RTUC was run in Manual Planned maintenance Spring release cutover

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	4/30/2014	24	4	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
39	4/30/2014	24	4	RTUC	RTUC was run in Manual Planned maintenance Spring release cutover
40	4/30/2014	24	5	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
41	4/30/2014	24	6	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
42	4/30/2014	24	7	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
43	4/30/2014	24	8	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
44	4/30/2014	24	9	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
45	4/30/2014	24	10	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
46	4/30/2014	24	11	RTD	RTUC was run in Manual Planned maintenance Spring release cutover
47	4/30/2014	24	12	RTD	RTUC was run in Manual Planned maintenance Spring release cutover

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	5/1/2014	1	1	RTD	RTD was run in Manual Planned maintenance Spring release cutover
49	5/1/2014	1	1	FMM	FMM was run in Manual Planned maintenance Spring release cutover
50	5/1/2014	1	2	RTD	RTD was run in Manual Planned maintenance Spring release cutover
51	5/1/2014	1	2	HASP	HASP was run in manual. Planned maintenance 'Spring release cutover
52	5/1/2014	1	3	RTD	RTD was run in Manual Planned maintenance Spring release cutover
53	5/1/2014	1	3	FMM	FMM was run in Manual Planned maintenance Spring release cutover
54	5/1/2014	1	4	RTD	RTD was run in Manual Planned maintenance Spring release cutover
55	5/1/2014	1	4	FMM	FMM was run in Manual Planned maintenance Spring release cutover
56	5/1/2014	1	5	RTD	RTD was run in Manual Planned maintenance Spring release cutover
57	5/1/2014	1	6	RTD	RTD was run in Manual Planned maintenance Spring release cutover

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	5/1/2014	1	7	RTD	RTD was run in Manual Planned maintenance Spring release cutover
59	5/1/2014	1	8	RTD	RTD was run in Manual Planned maintenance Spring release cutover
60	5/1/2014	1	9	RTD	RTD was run in Manual Planned maintenance Spring release cutover
61	5/1/2014	1	10	RTD	RTD was run in Manual Planned maintenance Spring release cutover
62	5/1/2014	1	11	RTD	RTD was run in Manual Planned maintenance Spring release cutover
63	5/1/2014	1	12	RTD	RTD was run in Manual Planned maintenance Spring release cutover
64	5/1/2014	2	1	RTD	RTD was run in Manual Planned maintenance Spring release cutover
65	5/1/2014	2	1	FMM	FMM was run in Manual Planned maintenance Spring release cutover
66	5/1/2014	2	2	RTD	RTD was run in Manual Planned maintenance Spring release cutover
67	5/1/2014	2	2	HASP	HASP was run in manual. Planned maintenance 'Spring release cutover

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	5/1/2014	2	3	RTD	RTD was run in Manual Planned maintenance Spring release cutover
69	5/1/2014	2	3	FMM	FMM was run in Manual Planned maintenance Spring release cutover
70	5/1/2014	2	4	RTD	RTD was run in Manual Planned maintenance Spring release cutover
71	5/1/2014	2	4	FMM	FMM was run in Manual Planned maintenance Spring release cutover
72	5/1/2014	2	5	RTD	RTD was run in Manual Planned maintenance Spring release cutover
73	5/1/2014	2	6	RTD	RTD was run in Manual Planned maintenance Spring release cutover
74	5/1/2014	2	7	RTD	RTD was run in Manual Planned maintenance Spring release cutover
75	5/1/2014	2	8	RTD	RTD was run in Manual Planned maintenance Spring release cutover
76	5/1/2014	2	9	RTD	RTD was run in Manual Planned maintenance Spring release cutover
77	5/1/2014	2	10	RTD	RTD was run in Manual Planned maintenance Spring release cutover

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
78	5/1/2014	2	11	RTD	RTD was run in Manual Planned maintenance Spring release cutover
79	5/1/2014	2	12	RTD	RTD was run in Manual Planned maintenance Spring release cutover
80	5/1/2014	3	1	RTD	RTD was run in Manual Planned maintenance Spring release cutover
81	5/1/2014	3	1	FMM	FMM was run in Manual Planned maintenance Spring release cutover
82	5/1/2014	3	2	RTD	RTD was run in Manual Planned maintenance Spring release cutover
83	5/1/2014	3	2	HASP	HASP was run in manual. Planned maintenance 'Spring release cutover
84	5/1/2014	3	3	RTD	RTD was run in Manual Planned maintenance Spring release cutover
85	5/1/2014	3	3	FMM	FMM was run in Manual Planned maintenance Spring release cutover
86	5/1/2014	3	4	RTD	RTD was run in Manual Planned maintenance Spring release cutover
87	5/1/2014	3	6	RTD	RTD was run in Manual Planned maintenance Spring release cutover

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
88	5/1/2014	3	7	RTD	RTD was run in Manual Planned maintenance Spring release cutover
89	5/1/2014	3	8	RTD	RTD results were blocked and previous solution used.
90	5/1/2014	3	10	RTD	RTD results were blocked and previous solution used.
91	5/1/2014	5	3	FMM	FMM was run in Manual Planned maintenance Spring release cutover
92	5/1/2014	6	1	FMM	FMM was run in Manual Planned maintenance Spring release cutover
93	5/1/2014	6	2	HASP	HASP was run in manual. Planned maintenance Spring release cutover
94	5/1/2014	19	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.
95	5/1/2014	19	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
96	5/1/2014	19	8	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
97	5/3/2014	1	1	RTD	RTD results were blocked and previous solution used.

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
98	5/4/2014	13	3	RTD	RTD was run in Manual Planned maintenance
99	5/4/2014	13	4	RTD	RTD broadcast failed Planned maintenance
100	5/6/2014	15	3	RTD	RTD was run in Manual Planned maintenance
101	5/7/2014	24	4	RTD	RTD results were blocked and previous solution used. Previous solution - Operator Block
102	5/8/2014	7	1	RTD	RTD Broadcast failed. Loss clearing payload and LMP filled from previous good interval.
103	5/8/2014	23	1	RTD	RTD results were blocked and previous solution used.
104	5/9/2014	15	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
105	5/9/2014	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.
106	5/12/2014	16	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
107	5/12/2014	16	11	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch

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	5/12/2014	21	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
109	5/12/2014	21	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval. Contingency dispatch
110	5/13/2014	15	2	RTD	RTD was run in Manual Planned maintenance
111	5/14/2014	11	12	RTD	RTD results were blocked and previous solution used.
112	5/14/2014	12	3	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
113	5/14/2014	12	4	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
114	5/14/2014	12	5	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
115	5/14/2014	12	6	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
116	5/14/2014	12	7	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
117	5/14/2014	12	8	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
118	5/14/2014	12	9	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous good interval.
119	5/14/2014	12	10	RTD	RTD did not run due to application problem. Loss clearing payload and LMP filled from previous 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 16th day of June 2014.

Isl anna Pascuzzo
Anna Pascuzzo