



California Independent  
System Operator Corporation

April 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 January report covering Market Disruptions reportable events under Section 7.7.15 of its FERC Electric Tariff (ISO Tariff) that occurred from February 16, 2010 to March 15, 2010.<sup>1</sup>

Please contact the undersigned with any questions.

Respectfully submitted,

**/s/ Anna McKenna**

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<sup>1</sup> 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 February 16, 2010 to March 15, 2010**

April 15, 2010

ISO Department of Market Services

CAISO  
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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.<sup>1</sup> 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.<sup>2</sup>

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<sup>1</sup> 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.

<sup>2</sup> *Id.* at P 29 & n.29.

## **II. Report on Market Disruptions Occurring from February 16, 2010 through March 15, 2010**

The ISO's report on Market Disruptions that occurred during the time period from February 16, 2010 through March 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 81 Market Disruptions for the reporting period, all of which occurred in the Hour-Ahead Scheduling Process or Real-Time Market. The number of market disruptions declined by 55 compared with the March 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 and Attachment A indicate that there were 62 total instances of real-time unit commitment (RTUC) failures, including 7 hour-ahead scheduling process (HASP) failures. The count of RTUC failures decreased by 24 and the count of HASP failures decreased by 2 compared with the March 2010 Report. Most of the RTUC failures (including HASP failures) were due to bid transfer issue, resource name change, optimal solution infeasibility, software application failure, or software application not running. The number of real-time dispatch (RTD) failures decreased by 31 to 19 from 50 such instance reported in the March 2010 Report. Most of the RTD failures can be attributed to bid transfer issue, databases and applications fall forward activity, or software application failure. RTD failures accounted for approximately 23 percent of all of the Market Disruptions during this reporting period.

On February 27, the clean bids were not transferred to real-time application due to a SIBR database issue. It caused six consecutive RTUC failures (including two HASP failures) and four consecutive RTD failures in hours ending 15 and 16. This issue was resolved subsequently. There were two more

RTUC failures on that day due to results broadcast failure or software application failure.

On March 2, the ADS, IFM, and RTN databases and applications fell forward to Folsom in HE 15, resulting in one RTUC failure and four consecutive RTD failures in HE 15. There was another RTUC failure in HE 4, which was not related to the fall forward activity.

Seven market disruptions occurred on March 4. In HE 9, the bids were not transferred to real-time application and this caused 3 consecutive RTUC failures. There were a total of three RTUC failures due to solution infeasibility in HE 6, HE 21, and HE 22 respectively. There was another RTUC failure in HE 2.

**Table 1: Summary of Market Disruption Report**

Type of CAISO Market	Market Disruption or Reportable Events	Removal of Bids (including Self-Schedules)
<b>Day-Ahead</b>		
IFM	0	0
RUC	0	0
<b>Real-Time</b>		
Real-Time Unit Commitment Interval 1	2	0
Real-Time Unit Commitment Interval 2	7	0
Real-Time Unit Commitment Interval 3	43	0
Real-Time Unit Commitment Interval 4	10	0
Real-Time Dispatch	19	0

## **ATTACHMENT A**

**California Independent System Operator Corporation  
Market Disruption Report  
April 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	2/16/2010	13	3	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
2	2/16/2010	21	3	RTUC	RTUC failed due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
3	2/16/2010	24	3	RTUC	RTUC did not run due to HASP taking too much time. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
4	2/17/2010	5	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
5	2/17/2010	6	4	RTUC	RTUC did not run due to HASP taking too much time. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
6	2/17/2010	21	2	HASP	HASP did not run. 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
7	2/17/2010	21	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
8	2/17/2010	22	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
9	2/18/2010	6	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
10	2/18/2010	18	3	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
11	2/19/2010	1	3	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
12	2/19/2010	4	4	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
13	2/19/2010	6	3	RTUC	RTUC did not run due to HASP taking too much time. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
14	2/22/2010	24	3	RTUC	RTUC timed out. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
15	2/24/2010	21	3	RTUC	RTUC failed due to resource name change in network model DB 46. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
16	2/24/2010	21	4	RTUC	RTUC failed due to resource name change in network model DB 46. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
17	2/24/2010	22	1	RTUC	RTUC failed due to resource name change in network model DB 46. 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
18	2/24/2010	22	3	RTUC	RTUC failed due to resource name change in network model DB 46. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
19	2/24/2010	22	4	RTUC	RTUC failed due to resource name change in network model DB 46. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
20	2/25/2010	22	3	RTUC	RTUC timed out due to optimal solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
21	2/26/2010	11	2	HASP	HASP did not run due to failure of bid transfer on 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.
22	2/26/2010	11	3	RTUC	RTUC failed due to failure of bid transfer on time. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
23	2/27/2010	15	2	HASP	HASP did not run due to bid transfer failure. 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.
24	2/27/2010	15	3	RTUC	RTUC timed out due to bid transfer failure. 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
25	2/27/2010	15	4	RTUC	RTUC timed out due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
26	2/27/2010	16	1	RTD	RTD failed due to bid transfer failure. Loss clearing payload and LMP filled from next good interval.
27	2/27/2010	16	1	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
28	2/27/2010	16	2	RTD	RTD did not run due to bid transfer failure. Loss clearing payload and LMP filled from last good interval.
29	2/27/2010	16	2	HASP	HASP did not run due to bid transfer failure. 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.
30	2/27/2010	16	3	RTD	RTD did not run due to bid transfer failure. Loss clearing payload and LMP filled from last good interval.
31	2/27/2010	16	3	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
32	2/27/2010	16	4	RTD	RTD did not run due to bid transfer failure. Loss clearing payload and LMP filled from last good interval.
33	2/27/2010	16	4	RTUC	Broadcast of RTUC results failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
34	2/27/2010	21	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
35	2/28/2010	1	4	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
36	2/28/2010	1	5	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.

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
37	2/28/2010	1	6	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
38	2/28/2010	22	1	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
39	3/1/2010	6	3	RTUC	RTUC did not run. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
40	3/1/2010	22	3	RTUC	RTUC failed due to optimal solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
41	3/2/2010	4	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
42	3/2/2010	15	3	RTUC	RTUC did not run due to databases and applications falling forward to Folsom. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
43	3/2/2010	15	4	RTD	RTD did not run due to databases and applications falling forward to Folsom. Loss clearing payload and LMP filled from last good interval.
44	3/2/2010	15	5	RTD	RTD did not run due to databases and applications falling forward to Folsom. Loss clearing payload and LMP filled from last good interval.
45	3/2/2010	15	6	RTD	RTD timed out due to databases and applications falling forward to Folsom. Loss clearing payload and LMP filled from last good interval.
46	3/2/2010	15	7	RTD	RTD failed due to databases and applications falling forward to Folsom. Loss clearing payload and LMP filled from last good interval.
47	3/3/2010	6	3	RTUC	RTUC did not run due to HASP robustness. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
48	3/3/2010	6	4	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
49	3/4/2010	2	3	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
50	3/4/2010	6	3	RTUC	RTUC failed due to solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
51	3/4/2010	9	2	HASP	HASP did not run due to bid transfer failure. 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.
52	3/4/2010	9	3	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
53	3/4/2010	9	4	RTUC	RTUC did not run due to bid transfer failure. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
54	3/4/2010	21	3	RTUC	RTUC failed due to solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
55	3/4/2010	22	3	RTUC	RTUC failed due to solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
56	3/6/2010	21	3	RTUC	RTUC timed out. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
57	3/6/2010	24	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.
58	3/6/2010	24	4	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
59	3/8/2010	17	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.
60	3/8/2010	17	6	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
61	3/8/2010	17	7	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.

Count	Date	Hour	Interval	Market	Nature of Actions, Nature of Market Disruption, Rationale and/or Market Disruption Prevented or Minimized as a Result of such Actions
62	3/8/2010	17	8	RTD	RTD did not run. Loss clearing payload and LMP filled from last good interval.
63	3/8/2010	17	9	RTD	RTD failed. Loss clearing payload and LMP filled from advisory results.
64	3/9/2010	15	7	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
65	3/9/2010	15	8	RTD	Broadcast of RTD results failed. Loss clearing payload and LMP filled from last good interval.
66	3/9/2010	17	3	RTUC	RTUC failed due to solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
67	3/10/2010	21	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
68	3/10/2010	22	3	RTUC	RTUC timed out. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
69	3/10/2010	23	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
70	3/10/2010	24	3	RTUC	RTUC timed out. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
71	3/11/2010	6	3	RTUC	RTUC timed out. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
72	3/11/2010	6	4	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
73	3/11/2010	21	3	RTUC	RTUC failed due to solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
74	3/12/2010	20	3	RTUC	RTUC failed due to solution infeasibility. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
75	3/12/2010	22	3	RTUC	RTUC failed due to solution infeasibility. 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
76	3/12/2010	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.
77	3/13/2010	20	2	HASP	HASP did not run due to database 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.
78	3/14/2010	21	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
79	3/14/2010	22	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
80	3/15/2010	21	3	RTUC	RTUC failed. This interval was filled either automatically or interactively. MQS published PNode clearing and resource awards for this interval.
81	3/15/2010	23	9	RTD	RTD timed out. Loss clearing payload and LMP filled from last good interval.
<b>Notes:</b>					
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 15<sup>th</sup> day of April, 2010.

*/s/ Jane Ostapovich*

Jane Ostapovich