

**Via Electronic Delivery**

Honorable Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

Re: *New York Independent System Operator, Inc.*, Docket No. ER06-1014-\_\_\_\_  
Fifth Price Validation Informational Report

Dear Ms. Bose:

Pursuant to Ordering Paragraph (B) of the Commission's July 14, 2006, order in the above-captioned proceeding,<sup>1</sup> the New York Independent System Operator, Inc. ("NYISO") respectfully submits this Price Validation Informational Report ("Report"), which details the corrections that the NYISO has made to erroneous locational based marginal prices ("LBMPs") from the period July 1, 2008, through December 31, 2008, as well as actions the NYISO has taken to minimize pricing errors.

Due to the NYISO's continued efforts, conducted in collaboration with its stakeholders, price errors and the need for price corrections continue to be infrequent. In 2005, the NYISO corrected prices in approximately 16% of hours. In 2006, that number was reduced to approximately 3% of hours. In 2007, the number was reduced to approximately 1% of hours. In 2008, the percentage of hours containing price errors was approximately 0.72%.

## I. Background

In the July 14 Order, the Commission conditionally accepted proposed revisions to the NYISO's tariffs to eliminate its Temporary Extraordinary Procedures ("TEPs") and establish a framework and time limits for price corrections outside of the TEPs. In that order, the Commission required the NYISO to submit informational reports every six months thereafter that indicate the causes of pricing errors that occurred during the reporting period, the duration and rate impact of those errors and the associated corrections, and the actions the NYISO took to correct the pricing errors. In addition, the Commission directed the NYISO to summarize and discuss what actions it undertook during the preceding six months to reduce or eliminate the types of price errors that occurred.

This is the fifth Report submitted in compliance with the July 14 Order.<sup>2</sup> This Report details all of the price corrections the NYISO made for the period July 1, 2008, through December 31, 2008, in its Real-Time Market.<sup>3</sup> There were no Day-Ahead Market price corrections during the reporting period.

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<sup>1</sup> *New York Independent System Operator, Inc.*, 116 FERC ¶ 61,037 (2006) ("July 14 Order").

<sup>2</sup> The NYISO submitted the first, second, third, and fourth reports to the Commission on January 31, 2007, July 31, 2007, January 31, 2008, and August 1, 2008 respectively.

<sup>3</sup> The Real-Time Market is defined as the "ISO-administered markets for Energy and Ancillary Services, resulting from the operation of the RTC [Real-Time Commitment] and RTD [Real-Time Dispatch]" models. OATT at § 1.36f; Services Tariff at § 2.155. While the NYISO corrects prices in the hour-ahead market, as necessary, that "market" consists of only advisory prices that are not used in NYISO settlements. Furthermore, the NYISO has corrected relatively few advisory prices during the period covered by this Report.

The Report identifies the causes of each pricing error, the number of Real-Time Dispatch (“RTD”) intervals affected,<sup>4</sup> and the amount by which each corrected price was changed. In addition, the Report describes the measures taken by the NYISO to minimize the incidence of pricing errors and to improve its price validation and correction practices. Attachments A and B to this Report detail the Real-Time Market price corrections for the period July 1, 2008, through December 31, 2008.

## II. Communications and Correspondence

Communications regarding this filing should be directed to:

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## III. Service

The NYISO has served a copy of this filing on the official service list compiled by the Secretary in this proceeding. In addition, the complete filing will be posted on the NYISO’s website at [www.nyiso.com](http://www.nyiso.com). The NYISO will also make a paper copy available to any interested party that requests one.

## IV. Report Details

### A. Types and Causes of Pricing Errors

Attachment Q of the OATT and Attachment E of the Services Tariff define two types of price errors.<sup>5</sup> The first type of error (“Type I”) results from a simple miscalculation and can reflect a software programming error or a failure of the software to produce an accurate price calculation. The second type of error (“Type II”) results when a price is based on an incorrect price-setting resource.

The NYISO classifies pricing errors at two levels. The first level is the type of error, as described above. The second level provides a more detailed description of the underlying cause of the error. The NYISO recognizes eight second-level error classifications, as follows:

- 1 – Posting Error** – Posting errors occur when prices do not properly post on NYISO’s website. These include instances when prices posted incorrectly or did not post at all.

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<sup>4</sup> RTD intervals normally occur every five minutes.

<sup>5</sup> See OATT, Attachment Q at §§ A(i)-(ii); Services Tariff, Attachment E at §§ A(i)-(ii).

- 2 – Indeterminacy/Penalty or Shift Factor Trade-offs** – Indeterminacies occur when the pricing solution cannot be tied to a specific resource.
- 3 – Static Data Error** – Static data errors are instances when non-metered data used in the software are incorrect.
- 4 – Computer System Failure** – Computer system failures include all IT hardware systems used in compiling data, and calculating and posting prices.
- 5 – Software Error** – Software errors are programming errors in the computer code that is used in the commitment, dispatch and price calculation processes.
- 6 – Telemetry** – Telemetry issues are caused by problems in the metering, compilation and conveyance of meter data from generators, loads, tie lines and phase angle regulations to the NYISO.
- 7 – Prices Inconsistent w/Dispatch/ No Marginal Unit** – Errors here are the result of the unit dispatch and pricing not being consistent. Also included are instances when no marginal unit can be identified.
- 8 – Operator Input** – Operator input errors occur when the system operator enters an erroneous value that results in incorrect pricing.

**B. Discussion of Pricing Errors from July through December 2008**

The NYISO has conducted a series of analyses of its Real-Time Market from July through December 2008 to determine the number of intervals and hours that required price corrections, as well as the causes of the underlying price errors. While previous reports discussed only internal prices, this report also includes external prices, owing to an October 2008 external proxy generator pricing issue. Nearly all of the October 2008 price corrections were for a single external proxy generator that is an isolated injection point from Hydro Quebec to New York. This proxy generator is not used in the calculation of the HQ zonal price, and hence has no impact on zonal prices. Table 1-A below provides a count of hours corrected by month in the Real-Time Market.

**Table 1-A**  
**RTD Hours Corrected**  
**July – December 2008**

2008	Hours		
	Corrected	Total	% Corrected
July	5	744	0.67%
August	5	744	0.67%
September	2	720	0.28%
October	17	744	2.28%
November	2	720	0.28%
December	3	744	0.40%
<b>Total</b>	<b>34</b>	<b>4,416</b>	<b>0.77%</b>

As shown above, the NYISO corrected prices in only 0.77% of the hours in the second half of 2008. It should be noted that any hour that had at least one interval corrected is included in this tabulation. For this period, five of the six months had a correction rate below 1%.

Table 1-B below provides a compilation, by month, of the number of RTD intervals corrected from July through December of 2008. As would be expected, the percentage of intervals corrected is significantly less than the percentage of hours corrected because not all intervals in a corrected hour require correction.

**Table 1-B**  
**RTD Intervals Corrected**  
**July – December 2008**

2008	Intervals		
	Corrected	Total	% Corrected
July	15	8,992	0.17%
August	10	8,995	0.11%
September	2	8,682	0.02%
October	139	8,971	1.55%
November	13	8,680	0.15%
December	20	8,979	0.22%
<b>Total</b>	<b>199</b>	<b>53,299</b>	<b>0.37%</b>

For the period July through December 2008 there were 199 RTD intervals corrected for a correction rate of 0.37%. Three of the six months had an interval correction rate at or less than 0.15%. The highest interval correction rate of 1.55% occurred in October, while the lowest, 0.02% occurred in September.

The price corrections from July through December 2008 were classified by error type and error description for both hours and intervals. Table 2 provides the distribution of price corrections by month between the error types (Type I or Type II).

As Table 2 shows, all of the RTD interval price corrections in the second half of 2008 were Type II errors - Incorrect Price Setting Resource.

**Table 2**  
**RTD Price Correction Error Types**  
**July – December 2008**

2008 Month	Intervals		Hours	
	Type I	Type II	Type I	Type II
July	-	15	-	5
August	-	10	-	5
September	-	2	-	2
October	-	139	-	17
November	-	13	-	2
December	-	20	-	3
<b>Total</b>	<b>0</b>	<b>199</b>	<b>0</b>	<b>34</b>

Table 3 presents a summary of RTD interval price corrections classified by reason for the second half of 2008.

**Table 3**  
**RTD Interval Price Corrections by Reason**  
**July – December 2008**

Reason	Jul	Aug	Sep	Oct	Nov	Dec	Total
1 - Posting Error	-	-	-	-	-	-	<b>0</b>
2 - Indeterminacy / Penalty or Shift Factor Trade-Off	-	-	-	-	-	-	<b>0</b>
3 - Data Error - Static	-	2	-	134	-	7	<b>143</b>
4 - Computer System Failure	-	-	-	-	-	-	<b>0</b>
5 - Software Error	-	-	1	2	-	-	<b>3</b>
6 - Telemetry	14	8	-	3	1	-	<b>26</b>
7 - Prices Inconsistent w/Dispatch / No Marginal Unit	1	-	1	-	-	-	<b>2</b>
8 - Operator Input	-	-	-	-	12	13	<b>25</b>
<b>Total</b>	<b>15</b>	<b>10</b>	<b>2</b>	<b>139</b>	<b>13</b>	<b>20</b>	<b>199</b>

July Price Corrections

All but one of the interval price corrections in July 2008 were due to telemetry issues. A metering problem that resulted in incorrect load forecasts accounts for 14 interval price corrections. The remaining correction resulted from a data transfer error.

August Price Corrections

August 2008 had four days with price corrections totaling five hours and 10 intervals. Data transfer errors resulted in two of the corrected intervals. The remaining eight interval price corrections were due to telemetry errors.

September Price Corrections

September 2008 had two RTD intervals corrected over two days with two hours affected. Programming errors caused one of these interval price corrections and the remaining correction resulted from an indeterminate dispatch.

October Price Corrections

October 2008 had 139 RTD intervals corrected over five days totaling 17 hours. The bulk of these price corrections (134 intervals over 14 hours) were caused by a special pricing rule error for a new external proxy generator which was not properly designated as a non-competitive proxy bus. This proxy bus (HQ-Cedars) is an isolated injection point between Hydro Quebec and New York. It is not used in the calculation of the HQ zonal prices, and hence does not result in erroneous HQ zonal prices (see Attachment B). The remaining five intervals with pricing errors were due to a load forecaster problem, an incorrect dynamic limit change made by a transmission owner, and a metering problem.

November Price Corrections

November 2008 had two days with RTD price corrections with 13 affected intervals over two hours. An improperly scheduled transaction was the cause of 12 of the erroneous intervals and the remaining interval was a result of a metering error.

December Price Corrections

December 2008 had 20 RTD intervals corrected over three days with three hours affected. An incorrect ramp limit resulted in 13 incorrect interval prices. The pricing errors for the seven remaining intervals were caused by a generator schedule error.

**C. Correction of Pricing Errors**

The overwhelming majority of settlement price corrections occur in the Real-Time Market. Prices in the NYISO energy markets are, by tariff, required to accurately reflect system conditions. When erroneous prices are found, there are a number of ways they can be corrected. NYISO uses the following seven correction modes for erroneous LBMPs:

1. Replace with a preceding or subsequent interval's price
2. Average the preceding and subsequent interval prices
3. Replace with a preceding interval's advisory price
4. Substitute erroneous LBMP with price from a similar bus
5. Recalculate prices

6. Replace with another market's prices (RTC or Security Constrained Unit Commitment (SCUC))
7. Repost missing prices

As stated in the NYISO's first, second, third and fourth reports, the appropriate price correction is one that most accurately reflects system conditions. Thus, a correction mode that is appropriate for an error in one circumstance may not be appropriate for the same error in another circumstance due, for example, to different commitment schedules, constraint patterns or external schedules. When pricing errors are found, the NYISO conducts an evaluation of the system conditions in the erroneous pricing interval, and uses a correction mode that most accurately reflects those conditions. The determining factor is how closely the final price reflects the state of the system during the erroneous pricing interval.

#### **D. Impact of Price Corrections**

The impact of price corrections on zonal LBMPs was evaluated for the period July through December 2008. In this evaluation, the average change in LBMP was calculated for each month using zonal prices in the Real-Time Market. The number of price increases and decreases that resulted from the price corrections was also examined. Tables 4 and 5 present the results of this analysis.

**Table 4**  
**Average Zonal Price Change**  
**July – December 2008**

	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Total</b>
<b>CAPITAL</b>	-82.06	146.61	-2,625.05	-129.58	3.31	7.97	-136.48
<b>CENTRAL</b>	-29.66	136.55	-2,558.98	-6.90	3.60	7.53	-101.66
<b>DUNWOODIE</b>	-100.95	150.37	-2,641.26	-96.66	3.17	8.15	-139.22
<b>GENESEE</b>	-26.81	131.73	-2,486.20	-3.41	3.49	7.44	-97.84
<b>HUDSON VALLEY</b>	-92.88	149.78	-2,653.27	-95.98	4.95	8.10	-136.88
<b>LONG ISLAND</b>	-100.73	122.83	-872.94	-171.90	-25.76	-2.94	-71.64
<b>MILLWOOD</b>	-100.47	149.86	-2,649.49	-97.30	4.46	8.13	-139.62
<b>MOHAWK VALLEY</b>	-32.18	140.21	-2,557.89	-5.75	3.67	7.77	-101.45
<b>NEW YORK CITY</b>	-98.08	-87.66	-2,306.13	-157.97	-12.79	-112.18	-211.22
<b>NORTH</b>	-22.74	137.24	-2,165.56	9.79	3.53	7.46	-77.75
<b>WEST</b>	-26.98	127.17	-2,363.29	-7.71	3.37	4.41	-94.13
<b>HQ</b>	-16.35	-32.51	-	9.20	3.53	4.62	-12.21
<b>NPX</b>	-67.33	-34.93	-	-116.65	2.82	4.96	-40.32
<b>OH</b>	-25.74	-30.12	-	-6.06	15.86	0.97	-9.69
<b>PJM</b>	-40.36	-31.62	-	-57.88	7.55	6.48	-21.40

**Table 5**  
**Zonal Price Change Count (Increase/Decrease)**  
**July – December 2008**

	Jul		Aug		Sep		Oct		Nov		Dec		Total	
	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease
CAPITAL	4	11	7	3	1	1	2	3	1	0	7	1	22	19
CENTRAL	8	7	7	3	1	1	3	2	1	0	7	1	27	14
DUNWOODIE	4	11	7	3	1	1	2	3	1	0	7	1	22	19
GENESEE	9	6	7	3	1	1	3	2	1	0	7	1	28	13
HUDSON VALLEY	4	11	7	3	1	1	2	3	1	0	7	1	22	19
LONG ISLAND	4	11	3	7	1	1	2	3	0	1	1	7	11	30
MILLWOOD	4	11	7	3	1	1	2	3	1	0	7	1	22	19
MOHAWK VALLEY	8	7	7	3	1	1	3	2	1	0	7	1	27	14
NEW YORK CITY	4	11	5	5	1	1	0	5	0	1	1	7	11	30
NORTH	9	6	7	3	1	1	3	2	1	0	7	1	28	13
WEST	8	7	6	4	1	1	2	3	1	0	8	0	26	15
HQ	9	5	6	3	-	-	3	2	1	0	6	1	25	11
NPX	0	1	9	3	-	-	5	3	1	0	7	0	22	7
OH	8	7	9	3	-	-	5	2	13	0	7	1	42	13
PJM	4	10	7	3	-	-	4	2	1	0	12	5	28	20

As can be seen in Table 4, the total average zonal price change was negative for the July through December evaluation period for all zones. These total zonal average values, however, were driven by a single significant price correction in September of more than -\$4,700, from an erroneous average zonal price of \$6,006.24 to a corrected average zonal price of 1,291.57.<sup>6</sup> Table 5 shows that 59% of the zonal price corrections (363 of 619) resulted in price increases, while 41% (256 of 619) of the zonal price corrections led to price decreases.

**E. Price Correction Mitigation Initiatives**

The NYISO’s efforts to improve initial price accuracy have successfully maintained a high level of price accuracy in 2008. This continued success is due to the NYISO’s commitment to identifying pricing problems, thoroughly evaluating these problems, and developing, where possible, solutions to mitigate these problems. These efforts have dramatically reduced pricing errors since 2006.

For the July through December 2008 reporting period a number of initiatives, both institutional (e.g., software enhancements) and operational, have been made. In addition, the NYISO has continued to revise and develop strategies and procedures to mitigate pricing errors. Among the measures undertaken during the reporting period are:

- The NYISO has continued expansion of the use of metering redundancy with an Intelligent Source Selection process to reduce metering errors. Previously, the NYISO developed and implemented a feature in its market operations software that identifies metering errors and automatically switches to alternative metering points to ensure data integrity. This capability has been expanded to cover additional metering points.
- The NYISO has continued to enhance its network model to improve its performance in the scheduling systems.

<sup>6</sup>See Attachment B, Time Stamp 9/14/2008 20: 13:06.



In September 2008 the NYISO deployed its Enhanced Price Validation (EPV) system to improve the evaluation of the 3.6 million prices and schedules generated every month. This new system uses a rules-based engine that evaluates each interval's prices and schedules in the Day-Ahead, Hour-Ahead and Real-Time Markets. The EPV system uses 23 separate rule sets to evaluate scheduling and pricing consistency, anomalous loads and pricing, operational data, and input data. The rules engine evaluates each market's outcomes and flags any intervals that do not pass all of the rules as suspect. Suspect intervals are then evaluated by the NYISO Price Validation Unit to determine whether or not the prices are correct. Intervals that are found to be erroneous are then corrected in accordance with the NYISO Market Services Tariff Attachment E. With this new capability the NYISO has been able to identify and evaluate pricing anomalies in a more efficient and timely manner, and has been able to improve its processing of price corrections. For the period September through December 2008 the NYISO has processed all price corrections in one day or less.

## V. Conclusion

WHEREFORE, the New York Independent System Operator, Inc., respectfully requests that the Commission accept this informational report.

Respectfully submitted,

*s/Elaine D. Robinson/*

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ATTACHMENT A  
RTD Price Correction Report  
July – December 2008

## RTD Energy Price Correction Report

Date	First Interval	Last Interval	# of Intervals corrected	Hours with Corrections	Error Type	Error Description	Correction Mode	Intervals Corrected by Zone														Additional Comments			
								WEST	CENTRL	MHK VL	CAPITL	HUD VL	GENESE	LONGIL	NORTH	NYC	MILLWD	DUNWOD	HQ	NPX	OH		PJM		
1	Posting Error						a	Replace w/Preceding Interval																	
2	Indeterminacy / Penalty or Shift Factor Trade-offs						b	Replace w/Subsequent Interval																	
3	Data Error - Static						c	Average - Preceding & Subsequent																	
4	Computer System Failure						d	Replace w/RTD Advisory Price																	
5	Software Error						e	Substitution w/Similar Bus Price																	
6	Telemetry						f	RTD Re-Run																	
7	Prices Inconsistent w/Dispatch / No Marginal Unit						g	Replace w/RTC Prices																	
8	Operator Input						h	Replace w/SCUC Prices																	
	<b>Error Type:</b>						i	Recalculation - External Proxy																	
	I Calculation Error						j	Recalculation																	
	II Incorrect Price Setting Resource						k	Re-Post																	
11-Jul-2008	4:15:00	5:00:00	10	4	II	6	d	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	Metering error - ICCP
11-Jul-2008	5:05:00	5:10:00	2	5	II	6	c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Metering error - ICCP	
11-Jul-2008	14:05:00	14:05:00	1	14	II	6	d	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	Metering error - NYC generator (> 500 MW)	
25-Jul-2008	21:00:00	21:00:00	1	20	II	7	c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (200-500 MW)	
28-Jul-2008	1:45:00	1:45:00	1	1	II	6	c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (200-500 MW)	
<b>Jul 2008</b>			<b>15</b>	<b>5</b>				<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>14</b>	<b>15</b>	<b>15</b>	<b>15</b>			
9-Aug-2008	0:29:01	0:29:01	1	0	II	3	c	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	Data Transfer Error		
13-Aug-2008	10:32:33	10:32:33	1	10	II	3	c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Data Transfer Error		
27-Aug-2008	9:45:00	9:45:00	1	9	II	6	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (> 500 MW)		
30-Aug-2008	11:35:00	11:40:00	2	11	II	6	a	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Metering error - NYC generator (250-500 MW)		
30-Aug-2008	11:45:00	11:55:00	3	11	II	6	d	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Metering error - NYC generator (250-500 MW)		
30-Aug-2008	12:55:00	12:55:00	1	12	II	6	a	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (250-500 MW)		
30-Aug-2008	13:00:00	13:00:00	1	12	II	6	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (250-500 MW)		
<b>Aug 2008</b>			<b>10</b>	<b>5</b>				<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>			
14-Sep-2008	20:13:06	20:13:06	1	20	II	7	b	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	Indeterminate Dispatch		
19-Sep-2008	6:29:51	6:29:51	1	6	II	5	d	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	Load Forecast Error		
<b>Sep 2008</b>			<b>2</b>	<b>2</b>				<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
2-Oct-2008	11:05:00	17:00:00	72	11 - 16	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	72	-	-	Special pricing rule error for non-competitive proxy bus.		
2-Oct-2008	23:10:00	23:55:00	10	23	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	0:00:00	0:00:00	1	23	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	0:30:00	2:35:00	27	0 - 2	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	3:00:00	4:15:00	16	2 - 4	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	4:25:00	4:35:00	3	4	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	5:00:00	5:15:00	4	4 - 5	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	6:00:00	6:00:00	1	5	II	3	k	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	Special pricing rule error for non-competitive proxy bus.		
3-Oct-2008	20:35:00	20:35:00	1	20	II	5	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Load Forecast Error		
8-Oct-2008	21:05:00	21:05:00	1	21	II	5	b	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Load Forecast Error		
22-Oct-2008	16:25:23	16:26:59	2	16	II	6	d	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Incorrect TO line limit change		
24-Oct-2008	16:45:00	16:45:00	1	16	II	6	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (250-500 MW)		
<b>Oct 2008</b>			<b>139</b>	<b>17</b>				<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>139</b>	<b>5</b>	<b>5</b>	<b>5</b>			
12-Nov-08	14:35:00	14:35:00	1	14	II	6	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Metering error - NYC generator (< 250 MW)		
19-Nov-08	10:05:00	11:00:00	12	10	II	8	k	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	Improperly scheduled transaction		
<b>Nov 2008</b>			<b>13</b>	<b>2</b>				<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>13</b>			
11-Dec-08	15:29:01	15:29:01	1	15	II	8	d	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	Load Forecast Error		
23-Dec-08	04:05:00	5:00:00	12	4	II	8	k	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	Operator error - Incorrect ramp limit		
31-Dec-08	12:15:00	12:40:00	7	12	II	3	b	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	Generator Schedule Error		
<b>Dec 2008</b>			<b>20</b>	<b>3</b>				<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>19</b>			

ATTACHMENT B

RTD Price Correction Impact

July – December 2008

# CAPITAL

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	251.43	47.89
7/11/2008 04:20:00	140.71	48.15
7/11/2008 04:25:00	137.74	48.15
7/11/2008 04:30:00	159.64	48.15
7/11/2008 04:35:00	160.23	49.86
7/11/2008 04:40:00	224.11	49.86
7/11/2008 04:45:00	0.00	49.86
7/11/2008 04:50:00	48.76	53.95
7/11/2008 04:55:00	140.85	53.95
7/11/2008 05:00:00	44.19	53.95
7/11/2008 05:05:00	174.09	46.08
7/11/2008 05:10:00	174.10	46.08
7/11/2008 14:05:00	251.01	99.53
7/25/2008 21:00:00	163.96	94.11
7/28/2008 01:45:00	0.00	50.35
8/9/2008 00:29:01	-1,728.79	51.27
8/13/2008 10:32:33	0.04	59.49
8/27/2008 09:45:00	451.60	75.60
8/30/2008 11:35:00	48.23	90.29
8/30/2008 11:40:00	62.47	90.29
8/30/2008 11:45:00	64.77	90.29
8/30/2008 11:50:00	163.16	90.29
8/30/2008 11:55:00	123.71	90.29
8/30/2008 12:55:00	88.40	88.79
8/30/2008 13:00:00	76.56	89.61
9/14/2008 20:13:06	6,596.85	1,337.13
9/19/2008 06:29:51	53.20	62.83
10/3/2008 20:35:00	58.25	53.60
10/8/2008 21:05:00	148.61	61.38
10/22/2008 16:25:23	55.45	77.28
10/22/2008 16:26:59	49.25	77.28
10/24/2008 16:45:00	702.23	96.35
11/12/2008 14:35:00	48.31	51.62
12/11/2008 15:29:01	31.67	60.71
12/31/2008 12:15:00	46.77	52.30
12/31/2008 12:15:41	48.45	52.30
12/31/2008 12:18:47	46.43	52.30
12/31/2008 12:25:00	46.07	52.30
12/31/2008 12:30:00	46.10	52.30
12/31/2008 12:35:00	52.97	52.30
12/31/2008 12:40:00	44.63	52.30

# CENTRAL

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	231.67	44.48
7/11/2008 04:20:00	129.40	44.71
7/11/2008 04:25:00	126.53	44.71
7/11/2008 04:30:00	46.21	44.71
7/11/2008 04:35:00	44.86	46.25
7/11/2008 04:40:00	43.33	46.25
7/11/2008 04:45:00	0.00	46.25
7/11/2008 04:50:00	45.07	49.94
7/11/2008 04:55:00	128.18	49.94
7/11/2008 05:00:00	40.65	49.94
7/11/2008 05:05:00	11.33	41.51
7/11/2008 05:10:00	11.29	41.51
7/11/2008 14:05:00	210.90	92.12
7/25/2008 21:00:00	154.77	88.50
7/28/2008 01:45:00	0.00	48.53
8/9/2008 00:29:01	-1,615.29	47.90
8/13/2008 10:32:33	0.04	56.68
8/27/2008 09:45:00	425.52	71.59
8/30/2008 11:35:00	44.96	83.84
8/30/2008 11:40:00	58.29	83.84
8/30/2008 11:45:00	60.68	83.84
8/30/2008 11:50:00	152.11	83.84
8/30/2008 11:55:00	115.10	83.84
8/30/2008 12:55:00	82.74	82.86
8/30/2008 13:00:00	72.22	83.62
9/14/2008 20:13:06	6,394.84	1,268.23
9/19/2008 06:29:51	50.42	59.07
10/3/2008 20:35:00	54.35	50.32
10/8/2008 21:05:00	138.14	57.35
10/22/2008 16:25:23	54.06	74.03
10/22/2008 16:26:59	47.97	74.03
10/24/2008 16:45:00	46.20	50.47
11/12/2008 14:35:00	44.61	48.21
12/11/2008 15:29:01	30.17	57.71
12/31/2008 12:15:00	43.80	48.90
12/31/2008 12:15:41	45.25	48.90
12/31/2008 12:18:47	43.39	48.90
12/31/2008 12:25:00	42.97	48.90
12/31/2008 12:30:00	42.99	48.90
12/31/2008 12:35:00	49.44	48.90
12/31/2008 12:40:00	41.78	48.90

# DUNWOOD

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	255.24	48.90
7/11/2008 04:20:00	142.71	49.16
7/11/2008 04:25:00	139.83	49.16
7/11/2008 04:30:00	130.21	49.16
7/11/2008 04:35:00	130.24	50.90
7/11/2008 04:40:00	175.36	50.90
7/11/2008 04:45:00	0.00	50.90
7/11/2008 04:50:00	49.54	55.08
7/11/2008 04:55:00	142.58	55.08
7/11/2008 05:00:00	44.94	55.08
7/11/2008 05:05:00	129.52	45.80
7/11/2008 05:10:00	129.51	45.80
7/11/2008 14:05:00	772.85	135.04
7/25/2008 21:00:00	174.41	109.67
7/28/2008 01:45:00	0.00	52.13
8/9/2008 00:29:01	-1,776.49	52.66
8/13/2008 10:32:33	0.04	62.84
8/27/2008 09:45:00	471.27	78.75
8/30/2008 11:35:00	49.86	93.60
8/30/2008 11:40:00	64.53	93.60
8/30/2008 11:45:00	66.90	93.60
8/30/2008 11:50:00	168.68	93.60
8/30/2008 11:55:00	128.02	93.60
8/30/2008 12:55:00	91.90	92.39
8/30/2008 13:00:00	79.73	93.50
9/14/2008 20:13:06	6,653.67	1,361.37
9/19/2008 06:29:51	53.71	63.49
10/3/2008 20:35:00	58.63	53.90
10/8/2008 21:05:00	151.01	62.31
10/22/2008 16:25:23	55.82	78.61
10/22/2008 16:26:59	49.53	78.61
10/24/2008 16:45:00	527.22	85.50
11/12/2008 14:35:00	49.71	52.88
12/11/2008 15:29:01	32.15	61.72
12/31/2008 12:15:00	47.70	53.37
12/31/2008 12:15:41	49.41	53.37
12/31/2008 12:18:47	47.36	53.37
12/31/2008 12:25:00	46.98	53.37
12/31/2008 12:30:00	47.01	53.37
12/31/2008 12:35:00	54.06	53.37
12/31/2008 12:40:00	45.48	53.37

# GENESEE

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	222.38	42.79
7/11/2008 04:20:00	124.34	43.02
7/11/2008 04:25:00	122.09	43.02
7/11/2008 04:30:00	41.59	43.02
7/11/2008 04:35:00	40.26	44.55
7/11/2008 04:40:00	34.08	44.55
7/11/2008 04:45:00	0.00	44.55
7/11/2008 04:50:00	43.42	48.20
7/11/2008 04:55:00	122.85	48.20
7/11/2008 05:00:00	39.15	48.20
7/11/2008 05:05:00	6.07	40.03
7/11/2008 05:10:00	6.05	40.03
7/11/2008 14:05:00	202.86	88.69
7/25/2008 21:00:00	148.69	85.24
7/28/2008 01:45:00	0.00	47.62
8/9/2008 00:29:01	-1,561.01	46.34
8/13/2008 10:32:33	0.04	54.74
8/27/2008 09:45:00	413.54	69.80
8/30/2008 11:35:00	43.82	81.46
8/30/2008 11:40:00	57.00	81.46
8/30/2008 11:45:00	59.21	81.46
8/30/2008 11:50:00	147.81	81.46
8/30/2008 11:55:00	111.73	81.46
8/30/2008 12:55:00	80.83	80.93
8/30/2008 13:00:00	70.20	81.33
9/14/2008 20:13:06	6,218.09	1,237.61
9/19/2008 06:29:51	48.24	56.33
10/3/2008 20:35:00	52.27	48.35
10/8/2008 21:05:00	136.16	56.65
10/22/2008 16:25:23	53.10	72.33
10/22/2008 16:26:59	47.21	72.33
10/24/2008 16:45:00	25.80	47.83
11/12/2008 14:35:00	43.71	47.20
12/11/2008 15:29:01	29.08	55.40
12/31/2008 12:15:00	42.40	47.94
12/31/2008 12:15:41	44.16	47.94
12/31/2008 12:18:47	42.18	47.94
12/31/2008 12:25:00	42.00	47.94
12/31/2008 12:30:00	42.08	47.94
12/31/2008 12:35:00	48.79	47.94
12/31/2008 12:40:00	40.76	47.94



# HUDSON VALLEY

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	254.29	48.67
7/11/2008 04:20:00	142.31	48.93
7/11/2008 04:25:00	139.31	48.93
7/11/2008 04:30:00	129.80	48.93
7/11/2008 04:35:00	129.79	50.67
7/11/2008 04:40:00	174.77	50.67
7/11/2008 04:45:00	0.00	50.67
7/11/2008 04:50:00	49.31	54.82
7/11/2008 04:55:00	141.92	54.82
7/11/2008 05:00:00	44.73	54.82
7/11/2008 05:05:00	129.10	45.62
7/11/2008 05:10:00	129.09	45.62
7/11/2008 14:05:00	644.06	126.93
7/25/2008 21:00:00	173.47	106.68
7/28/2008 01:45:00	0.00	51.96
8/9/2008 00:29:01	-1,771.56	52.51
8/13/2008 10:32:33	0.04	62.47
8/27/2008 09:45:00	471.27	78.75
8/30/2008 11:35:00	49.55	92.92
8/30/2008 11:40:00	64.12	92.92
8/30/2008 11:45:00	66.48	92.92
8/30/2008 11:50:00	167.61	92.92
8/30/2008 11:55:00	127.09	92.92
8/30/2008 12:55:00	91.32	91.72
8/30/2008 13:00:00	79.23	92.91
9/14/2008 20:13:06	6,678.92	1,362.65
9/19/2008 06:29:51	53.76	63.49
10/3/2008 20:35:00	58.63	53.96
10/8/2008 21:05:00	150.30	62.02
10/22/2008 16:25:23	55.71	78.31
10/22/2008 16:26:59	49.48	78.31
10/24/2008 16:45:00	523.50	85.10
11/12/2008 14:35:00	45.51	50.46
12/11/2008 15:29:01	32.09	61.55
12/31/2008 12:15:00	47.61	53.28
12/31/2008 12:15:41	49.37	53.28
12/31/2008 12:18:47	47.32	53.28
12/31/2008 12:25:00	46.94	53.28
12/31/2008 12:30:00	46.97	53.28
12/31/2008 12:35:00	53.96	53.28
12/31/2008 12:40:00	45.48	53.28

# LONG ISLAND

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	258.57	49.81
7/11/2008 04:20:00	144.17	50.07
7/11/2008 04:25:00	141.01	50.07
7/11/2008 04:30:00	130.55	50.07
7/11/2008 04:35:00	130.53	51.90
7/11/2008 04:40:00	175.66	51.90
7/11/2008 04:45:00	0.00	51.90
7/11/2008 04:50:00	50.46	56.16
7/11/2008 04:55:00	145.21	56.16
7/11/2008 05:00:00	45.98	56.16
7/11/2008 05:05:00	129.49	46.71
7/11/2008 05:10:00	129.50	46.71
7/11/2008 14:05:00	777.02	137.83
7/25/2008 21:00:00	178.46	117.70
7/28/2008 01:45:00	0.00	52.57
8/9/2008 00:29:01	-1,673.32	54.10
8/13/2008 10:32:33	102.17	92.69
8/27/2008 09:45:00	481.11	80.55
8/30/2008 11:35:00	154.61	132.58
8/30/2008 11:40:00	154.92	132.58
8/30/2008 11:45:00	154.97	133.70
8/30/2008 11:50:00	173.13	133.70
8/30/2008 11:55:00	145.54	133.70
8/30/2008 12:55:00	96.72	110.05
8/30/2008 13:00:00	81.90	96.37
9/14/2008 20:13:06	3,131.46	1,375.41
9/19/2008 06:29:51	55.22	65.40
10/3/2008 20:35:00	502.01	113.78
10/8/2008 21:05:00	181.84	82.31
10/22/2008 16:25:23	50.43	80.82
10/22/2008 16:26:59	43.64	80.82
10/24/2008 16:45:00	526.53	87.22
11/12/2008 14:35:00	96.61	70.85
12/11/2008 15:29:01	32.42	62.84
12/31/2008 12:15:00	66.74	61.95
12/31/2008 12:15:41	74.83	61.95
12/31/2008 12:18:47	69.67	61.95
12/31/2008 12:25:00	69.50	61.95
12/31/2008 12:30:00	69.29	61.95
12/31/2008 12:35:00	63.90	61.95
12/31/2008 12:40:00	73.65	61.95

# MILLWOOD

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	254.76	48.80
7/11/2008 04:20:00	142.57	49.02
7/11/2008 04:25:00	139.57	49.02
7/11/2008 04:30:00	130.70	49.02
7/11/2008 04:35:00	130.74	50.81
7/11/2008 04:40:00	176.24	50.81
7/11/2008 04:45:00	0.00	50.81
7/11/2008 04:50:00	49.40	54.98
7/11/2008 04:55:00	142.33	54.98
7/11/2008 05:00:00	44.82	54.98
7/11/2008 05:05:00	130.38	45.73
7/11/2008 05:10:00	130.37	45.73
7/11/2008 14:05:00	761.28	134.19
7/25/2008 21:00:00	174.09	109.23
7/28/2008 01:45:00	0.00	52.03
8/9/2008 00:29:01	-1,771.56	52.51
8/13/2008 10:32:33	0.04	62.69
8/27/2008 09:45:00	470.85	78.68
8/30/2008 11:35:00	49.77	93.43
8/30/2008 11:40:00	64.41	93.43
8/30/2008 11:45:00	66.84	93.43
8/30/2008 11:50:00	168.53	93.43
8/30/2008 11:55:00	127.79	93.43
8/30/2008 12:55:00	91.73	92.22
8/30/2008 13:00:00	79.59	93.33
9/14/2008 20:13:06	6,672.61	1,363.93
9/19/2008 06:29:51	53.61	63.31
10/3/2008 20:35:00	58.52	53.85
10/8/2008 21:05:00	150.73	62.20
10/22/2008 16:25:23	55.71	78.39
10/22/2008 16:26:59	49.44	78.39
10/24/2008 16:45:00	530.54	85.63
11/12/2008 14:35:00	46.74	51.20
12/11/2008 15:29:01	32.17	61.72
12/31/2008 12:15:00	47.79	53.43
12/31/2008 12:15:41	49.51	53.43
12/31/2008 12:18:47	47.45	53.43
12/31/2008 12:25:00	47.07	53.43
12/31/2008 12:30:00	47.05	53.43
12/31/2008 12:35:00	54.11	53.43
12/31/2008 12:40:00	45.57	53.43

# MOHAWK VALLEY

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	241.67	46.30
7/11/2008 04:20:00	134.99	46.54
7/11/2008 04:25:00	132.27	46.54
7/11/2008 04:30:00	47.04	46.54
7/11/2008 04:35:00	45.61	48.20
7/11/2008 04:40:00	41.48	48.20
7/11/2008 04:45:00	0.00	48.20
7/11/2008 04:50:00	46.82	52.15
7/11/2008 04:55:00	133.67	52.15
7/11/2008 05:00:00	42.36	52.15
7/11/2008 05:05:00	9.82	43.36
7/11/2008 05:10:00	9.75	43.36
7/11/2008 14:05:00	249.59	97.46
7/25/2008 21:00:00	160.38	92.30
7/28/2008 01:45:00	0.00	49.25
8/9/2008 00:29:01	-1,659.71	49.22
8/13/2008 10:32:33	0.04	58.00
8/27/2008 09:45:00	440.48	73.81
8/30/2008 11:35:00	46.68	87.32
8/30/2008 11:40:00	60.47	87.32
8/30/2008 11:45:00	62.81	87.32
8/30/2008 11:50:00	157.94	87.32
8/30/2008 11:55:00	119.64	87.32
8/30/2008 12:55:00	85.49	85.87
8/30/2008 13:00:00	74.32	86.74
9/14/2008 20:13:06	6,420.09	1,295.03
9/19/2008 06:29:51	51.88	61.16
10/3/2008 20:35:00	56.44	52.04
10/8/2008 21:05:00	145.35	60.04
10/22/2008 16:25:23	54.54	75.43
10/22/2008 16:26:59	48.44	75.43
10/24/2008 16:45:00	37.35	50.45
11/12/2008 14:35:00	45.95	49.62
12/11/2008 15:29:01	30.73	58.90
12/31/2008 12:15:00	45.68	51.07
12/31/2008 12:15:41	47.28	51.07
12/31/2008 12:18:47	45.31	51.07
12/31/2008 12:25:00	44.95	51.07
12/31/2008 12:30:00	44.98	51.07
12/31/2008 12:35:00	51.72	51.07
12/31/2008 12:40:00	43.60	51.07

# NEW YORK CITY

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	256.43	49.21
7/11/2008 04:20:00	143.51	49.48
7/11/2008 04:25:00	140.61	49.48
7/11/2008 04:30:00	130.50	49.48
7/11/2008 04:35:00	130.48	51.28
7/11/2008 04:40:00	175.56	51.28
7/11/2008 04:45:00	0.00	51.28
7/11/2008 04:50:00	49.87	55.49
7/11/2008 04:55:00	143.63	55.49
7/11/2008 05:00:00	45.28	55.49
7/11/2008 05:05:00	129.53	46.14
7/11/2008 05:10:00	129.52	46.14
7/11/2008 14:05:00	774.22	180.59
7/25/2008 21:00:00	175.96	110.57
7/28/2008 01:45:00	0.00	52.46
8/9/2008 00:29:01	-808.99	52.96
8/13/2008 10:32:33	1,192.60	61.31
8/27/2008 09:45:00	619.09	79.47
8/30/2008 11:35:00	50.05	94.28
8/30/2008 11:40:00	64.70	94.28
8/30/2008 11:45:00	67.09	94.37
8/30/2008 11:50:00	169.76	94.37
8/30/2008 11:55:00	128.83	94.37
8/30/2008 12:55:00	162.57	93.06
8/30/2008 13:00:00	83.58	94.17
9/14/2008 20:13:06	5,945.41	1,323.32
9/19/2008 06:29:51	54.01	63.85
10/3/2008 20:35:00	61.70	54.21
10/8/2008 21:05:00	151.57	62.60
10/22/2008 16:25:23	204.50	79.12
10/22/2008 16:26:59	205.51	79.12
10/24/2008 16:45:00	527.37	85.74
11/12/2008 14:35:00	86.61	73.82
12/11/2008 15:29:01	32.44	62.29
12/31/2008 12:15:00	214.62	92.83
12/31/2008 12:15:41	214.43	92.83
12/31/2008 12:18:47	259.51	92.83
12/31/2008 12:25:00	260.00	92.83
12/31/2008 12:30:00	258.90	92.83
12/31/2008 12:35:00	110.34	92.83
12/31/2008 12:40:00	259.28	92.83

# NORTH

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	233.10	44.66
7/11/2008 04:20:00	130.19	44.85
7/11/2008 04:25:00	127.70	44.85
7/11/2008 04:30:00	31.99	44.85
7/11/2008 04:35:00	30.37	46.49
7/11/2008 04:40:00	16.51	46.49
7/11/2008 04:45:00	0.00	46.49
7/11/2008 04:50:00	45.03	50.30
7/11/2008 04:55:00	128.62	50.30
7/11/2008 05:00:00	40.81	50.30
7/11/2008 05:05:00	-10.56	41.71
7/11/2008 05:10:00	-10.63	41.71
7/11/2008 14:05:00	203.29	88.97
7/25/2008 21:00:00	150.56	85.92
7/28/2008 01:45:00	0.00	47.97
8/9/2008 00:29:01	-1,616.94	47.95
8/13/2008 10:32:33	0.04	54.39
8/27/2008 09:45:00	419.10	70.23
8/30/2008 11:35:00	44.37	82.99
8/30/2008 11:40:00	57.47	82.99
8/30/2008 11:45:00	59.64	82.99
8/30/2008 11:50:00	150.11	82.99
8/30/2008 11:55:00	113.82	82.99
8/30/2008 12:55:00	81.16	81.52
8/30/2008 13:00:00	70.34	82.43
9/14/2008 20:13:06	5,466.87	1,126.61
9/19/2008 06:29:51	50.11	59.25
10/3/2008 20:35:00	54.24	49.91
10/8/2008 21:05:00	141.68	58.34
10/22/2008 16:25:23	47.20	66.06
10/22/2008 16:26:59	42.06	66.06
10/24/2008 16:45:00	-55.77	37.97
11/12/2008 14:35:00	44.25	47.78
12/11/2008 15:29:01	29.17	55.91
12/31/2008 12:15:00	43.69	48.91
12/31/2008 12:15:41	45.24	48.91
12/31/2008 12:18:47	43.34	48.91
12/31/2008 12:25:00	43.02	48.91
12/31/2008 12:30:00	43.01	48.91
12/31/2008 12:35:00	49.49	48.91
12/31/2008 12:40:00	41.66	48.91

# WEST

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	211.43	40.83
7/11/2008 04:20:00	118.21	41.09
7/11/2008 04:25:00	115.96	41.09
7/11/2008 04:30:00	43.61	41.09
7/11/2008 04:35:00	42.36	42.55
7/11/2008 04:40:00	39.59	42.55
7/11/2008 04:45:00	0.00	42.55
7/11/2008 04:50:00	41.39	46.04
7/11/2008 04:55:00	116.33	46.04
7/11/2008 05:00:00	37.15	46.04
7/11/2008 05:05:00	11.84	38.15
7/11/2008 05:10:00	11.84	38.15
7/11/2008 14:05:00	191.44	83.61
7/25/2008 21:00:00	140.12	80.52
7/28/2008 01:45:00	0.00	46.30
8/9/2008 00:29:01	-1,506.73	44.69
8/13/2008 10:32:33	0.04	51.85
8/27/2008 09:45:00	395.15	67.00
8/30/2008 11:35:00	41.69	77.21
8/30/2008 11:40:00	54.41	77.21
8/30/2008 11:45:00	56.59	77.21
8/30/2008 11:50:00	140.59	77.21
8/30/2008 11:55:00	106.02	77.21
8/30/2008 12:55:00	77.25	77.17
8/30/2008 13:00:00	67.46	77.37
9/14/2008 20:13:06	5,889.82	1,155.96
9/19/2008 06:29:51	46.47	53.76
10/3/2008 20:35:00	48.92	45.47
10/8/2008 21:05:00	127.11	53.32
10/22/2008 16:25:23	51.08	68.87
10/22/2008 16:26:59	45.42	68.87
10/24/2008 16:45:00	49.48	46.95
11/12/2008 14:35:00	41.70	45.07
12/11/2008 15:29:01	27.90	53.03
12/31/2008 12:15:00	29.77	30.18
12/31/2008 12:15:41	29.49	30.18
12/31/2008 12:18:47	29.23	30.18
12/31/2008 12:25:00	27.51	30.18
12/31/2008 12:30:00	27.48	30.18
12/31/2008 12:35:00	29.64	30.18
12/31/2008 12:40:00	27.99	30.18

HQ		
Time Stamp	Original LBMP	Final LBMP
07/11/2008 04:15:00	235.24	45.07
07/11/2008 04:20:00	131.53	45.31
07/11/2008 04:25:00	128.87	45.31
07/11/2008 04:30:00	32.31	45.31
07/11/2008 04:35:00	30.65	46.92
07/11/2008 04:40:00	16.68	46.92
07/11/2008 04:45:00	0	46.92
07/11/2008 04:50:00	45.49	50.77
07/11/2008 04:55:00	129.94	50.77
07/11/2008 05:00:00	41.23	50.77
07/11/2008 05:05:00	-10.66	42.1
07/11/2008 05:10:00	-10.72	42.1
07/11/2008 14:05:00	12	12
07/25/2008 21:00:00	151.49	86.54
07/28/2008 01:45:00	0	48.41
08/13/2008 10:32:33	0.04	54.82
08/27/2008 09:45:00	419.96	70.37
08/30/2008 11:35:00	44.41	83.07
08/30/2008 11:40:00	57.53	83.07
08/30/2008 11:45:00	59.64	83.07
08/30/2008 11:50:00	150.11	83.07
08/30/2008 11:55:00	113.82	83.07
08/30/2008 12:55:00	81.24	81.6
08/30/2008 13:00:00	70.42	82.43
10/02/2008 11:05:00	87.54	87.54
10/02/2008 11:10:00	86.83	86.83
10/02/2008 11:15:00	80.93	80.93
10/02/2008 11:20:00	80.7	80.7
10/02/2008 11:25:00	79.82	79.82
10/02/2008 11:30:00	75.28	75.28
10/02/2008 11:35:00	80.44	80.44
10/02/2008 11:40:00	79.65	79.65
10/02/2008 11:45:00	86.53	86.53
10/02/2008 11:50:00	98.04	98.04
10/02/2008 11:55:00	112.58	112.58
10/02/2008 12:00:00	76.96	76.96
10/02/2008 12:05:00	54.26	54.26
10/02/2008 12:10:00	74.62	74.62
10/02/2008 12:15:00	74.82	74.82
10/02/2008 12:20:00	62.71	62.71
10/02/2008 12:25:00	53.98	53.98
10/02/2008 12:30:00	74.64	74.64
10/02/2008 12:35:00	60.6	60.6
10/02/2008 12:40:00	74.64	74.64
10/02/2008 12:45:00	74.76	74.76

HQ		
Time Stamp	Original LBMP	Final LBMP
10/02/2008 12:50:00	61.01	61.01
10/02/2008 12:55:00	88.86	88.86
10/02/2008 13:00:00	62.74	62.74
10/02/2008 13:05:00	60.48	60.48
10/02/2008 13:10:00	60.54	60.54
10/02/2008 13:15:00	54.15	54.15
10/02/2008 13:20:00	54.2	54.2
10/02/2008 13:25:00	54.21	54.21
10/02/2008 13:30:00	51.99	51.99
10/02/2008 13:34:59	50.91	50.91
10/02/2008 13:37:53	50.85	50.85
10/02/2008 13:45:00	52.22	52.22
10/02/2008 13:50:00	51.99	51.99
10/02/2008 13:55:00	51.99	51.99
10/02/2008 14:00:00	51.94	51.94
10/02/2008 14:05:00	51.89	51.89
10/02/2008 14:10:00	50.85	50.85
10/02/2008 14:15:00	46.98	46.98
10/02/2008 14:20:00	50.82	50.82
10/02/2008 14:25:00	46.09	46.09
10/02/2008 14:30:00	47.28	47.28
10/02/2008 14:35:00	46.93	46.93
10/02/2008 14:40:00	47.28	47.28
10/02/2008 14:45:00	46.85	46.85
10/02/2008 14:50:00	46.93	46.93
10/02/2008 14:55:00	45.56	45.56
10/02/2008 15:00:00	45.82	45.82
10/02/2008 15:05:00	50.47	50.47
10/02/2008 15:10:00	43.81	43.81
10/02/2008 15:15:00	43.6	43.6
10/02/2008 15:20:00	43.35	43.35
10/02/2008 15:25:00	43.45	43.45
10/02/2008 15:30:00	45.69	45.69
10/02/2008 15:35:00	45.64	45.64
10/02/2008 15:40:00	45.69	45.69
10/02/2008 15:45:00	43.81	43.81
10/02/2008 15:50:00	45.64	45.64
10/02/2008 15:55:00	45.6	45.6
10/02/2008 16:00:00	45.67	45.67
10/02/2008 16:05:00	45.69	45.69
10/02/2008 16:10:00	45.95	45.95
10/02/2008 16:15:00	45.77	45.77
10/02/2008 16:20:00	45.72	45.72
10/02/2008 16:25:00	45.79	45.79
10/02/2008 16:30:00	46.32	46.32

Intervals listed in red are for corrected generator LBMPs located in the external control area that did not affect the external control area zonal LBMP. Thus, the zonal LBMPs were not corrected.



HQ		
Time Stamp	Original LBMP	Final LBMP
10/02/2008 16:35:00	45.95	45.95
10/02/2008 16:40:00	45.89	45.89
10/02/2008 16:45:00	45.84	45.84
10/02/2008 16:50:00	45.84	45.84
10/02/2008 16:55:00	45.84	45.84
10/02/2008 17:00:00	45.83	45.83
10/02/2008 23:10:00	51	51
10/02/2008 23:15:00	51	51
10/02/2008 23:20:00	51	51
10/02/2008 23:25:00	51	51
10/02/2008 23:30:00	51	51
10/02/2008 23:35:00	51	51
10/02/2008 23:40:00	51	51
10/02/2008 23:45:00	51	51
10/02/2008 23:50:00	51	51
10/02/2008 23:55:00	51	51
10/03/2008 00:00:00	51	51
10/03/2008 00:30:00	58.91	58.91
10/03/2008 00:35:00	57.06	57.06
10/03/2008 00:40:00	57.06	57.06
10/03/2008 00:45:00	54.39	54.39
10/03/2008 00:50:00	54.11	54.11
10/03/2008 00:55:00	54.11	54.11
10/03/2008 01:00:00	56.84	56.84
10/03/2008 01:05:00	46.01	46.01
10/03/2008 01:10:00	46.01	46.01
10/03/2008 01:15:00	46.01	46.01
10/03/2008 01:20:00	46.01	46.01
10/03/2008 01:25:00	46.01	46.01
10/03/2008 01:30:00	46.01	46.01
10/03/2008 01:35:00	46.01	46.01
10/03/2008 01:40:00	46.01	46.01
10/03/2008 01:45:00	46.01	46.01
10/03/2008 01:50:00	46.01	46.01
10/03/2008 01:55:00	46.01	46.01
10/03/2008 02:00:00	46.01	46.01
10/03/2008 02:05:00	62.59	62.59
10/03/2008 02:10:00	54.02	54.02
10/03/2008 02:15:00	53.11	53.11
10/03/2008 02:20:00	53.04	53.04
10/03/2008 02:25:00	53.09	53.09

HQ		
Time Stamp	Original LBMP	Final LBMP
10/03/2008 02:26:35	52.96	52.96
10/03/2008 02:28:17	53.01	53.01
10/03/2008 02:35:00	53.02	53.02
10/03/2008 03:00:00	54.46	54.46
10/03/2008 03:05:00	46	46
10/03/2008 03:10:00	46	46
10/03/2008 03:15:00	45.61	45.61
10/03/2008 03:20:00	45.21	45.21
10/03/2008 03:25:00	45.87	45.87
10/03/2008 03:30:00	45.16	45.16
10/03/2008 03:35:00	45.21	45.21
10/03/2008 03:40:00	45.37	45.37
10/03/2008 03:45:00	45.66	45.66
10/03/2008 03:50:00	45.72	45.72
10/03/2008 03:55:00	45.37	45.37
10/03/2008 04:00:00	46	46
10/03/2008 04:05:00	51	51
10/03/2008 04:10:00	51	51
10/03/2008 04:15:00	51	51
10/03/2008 04:25:00	51	51
10/03/2008 04:30:00	51	51
10/03/2008 04:35:00	51	51
10/03/2008 05:00:00	51	51
10/03/2008 05:05:00	41.87	41.87
10/03/2008 05:10:00	41.87	41.87
10/03/2008 05:15:00	41.87	41.87
10/03/2008 06:00:00	41.87	41.87
10/03/2008 20:35:00	54.19	49.86
10/08/2008 21:05:00	140.69	58.05
10/22/2008 16:25:23	53.21	73.81
10/22/2008 16:26:59	47.26	73.81
10/24/2008 16:45:00	-41.18	44.62
11/12/2008 14:35:00	44.25	47.78
12/31/2008 12:15:00	43.47	48.66
12/31/2008 12:15:41	45.06	48.66
12/31/2008 12:18:47	43.17	48.66
12/31/2008 12:25:00	42.85	48.66
12/31/2008 12:30:00	42.88	48.66
12/31/2008 12:35:00	49.34	48.66
12/31/2008 12:40:00	41.54	48.66

Intervals listed in red are for corrected generator LBMPs located in the external control area that did not affect the external control area zonal LBMP. Thus, the zonal LBMPs were not corrected.

HQ		
Time Stamp	Original LBMP	Final LBMP
10/02/2008 16:35:00	45.95	45.95
10/02/2008 16:40:00	45.89	45.89
10/02/2008 16:45:00	45.84	45.84
10/02/2008 16:50:00	45.84	45.84
10/02/2008 16:55:00	45.84	45.84
10/02/2008 17:00:00	45.83	45.83
10/02/2008 23:10:00	51	51
10/02/2008 23:15:00	51	51
10/02/2008 23:20:00	51	51
10/02/2008 23:25:00	51	51
10/02/2008 23:30:00	51	51
10/02/2008 23:35:00	51	51
10/02/2008 23:40:00	51	51
10/02/2008 23:45:00	51	51
10/02/2008 23:50:00	51	51
10/02/2008 23:55:00	51	51
10/03/2008 00:00:00	51	51
10/03/2008 00:30:00	58.91	58.91
10/03/2008 00:35:00	57.06	57.06
10/03/2008 00:40:00	57.06	57.06
10/03/2008 00:45:00	54.39	54.39
10/03/2008 00:50:00	54.11	54.11
10/03/2008 00:55:00	54.11	54.11
10/03/2008 01:00:00	56.84	56.84
10/03/2008 01:05:00	46.01	46.01
10/03/2008 01:10:00	46.01	46.01
10/03/2008 01:15:00	46.01	46.01
10/03/2008 01:20:00	46.01	46.01
10/03/2008 01:25:00	46.01	46.01
10/03/2008 01:30:00	46.01	46.01
10/03/2008 01:35:00	46.01	46.01
10/03/2008 01:40:00	46.01	46.01
10/03/2008 01:45:00	46.01	46.01
10/03/2008 01:50:00	46.01	46.01
10/03/2008 01:55:00	46.01	46.01
10/03/2008 02:00:00	46.01	46.01
10/03/2008 02:05:00	62.59	62.59
10/03/2008 02:10:00	54.02	54.02
10/03/2008 02:15:00	53.11	53.11
10/03/2008 02:20:00	53.04	53.04
10/03/2008 02:25:00	53.09	53.09

HQ		
Time Stamp	Original LBMP	Final LBMP
10/03/2008 02:26:35	52.96	52.96
10/03/2008 02:28:17	53.01	53.01
10/03/2008 02:35:00	53.02	53.02
10/03/2008 03:00:00	54.46	54.46
10/03/2008 03:05:00	46	46
10/03/2008 03:10:00	46	46
10/03/2008 03:15:00	45.61	45.61
10/03/2008 03:20:00	45.21	45.21
10/03/2008 03:25:00	45.87	45.87
10/03/2008 03:30:00	45.16	45.16
10/03/2008 03:35:00	45.21	45.21
10/03/2008 03:40:00	45.37	45.37
10/03/2008 03:45:00	45.66	45.66
10/03/2008 03:50:00	45.72	45.72
10/03/2008 03:55:00	45.37	45.37
10/03/2008 04:00:00	46	46
10/03/2008 04:05:00	51	51
10/03/2008 04:10:00	51	51
10/03/2008 04:15:00	51	51
10/03/2008 04:25:00	51	51
10/03/2008 04:30:00	51	51
10/03/2008 04:35:00	51	51
10/03/2008 05:00:00	51	51
10/03/2008 05:05:00	41.87	41.87
10/03/2008 05:10:00	41.87	41.87
10/03/2008 05:15:00	41.87	41.87
10/03/2008 06:00:00	41.87	41.87
10/03/2008 20:35:00	54.19	49.86
10/08/2008 21:05:00	140.69	58.05
10/22/2008 16:25:23	53.21	73.81
10/22/2008 16:26:59	47.26	73.81
10/24/2008 16:45:00	-41.18	44.62
11/12/2008 14:35:00	44.25	47.78
12/31/2008 12:15:00	43.47	48.66
12/31/2008 12:15:41	45.06	48.66
12/31/2008 12:18:47	43.17	48.66
12/31/2008 12:25:00	42.85	48.66
12/31/2008 12:30:00	42.88	48.66
12/31/2008 12:35:00	49.34	48.66
12/31/2008 12:40:00	41.54	48.66

Intervals listed in red are for corrected generator LBMPs located in the external control area that did not affect the external control area zonal LBMP. Thus, the zonal LBMPs were not corrected.

NPX		
Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	88.00	88.00
7/11/2008 04:20:00	88.00	88.00
7/11/2008 04:25:00	88.00	88.00
7/11/2008 04:30:00	88.00	88.00
7/11/2008 04:35:00	88.00	88.00
7/11/2008 04:40:00	88.00	88.00
7/11/2008 04:45:00	88.00	88.00
7/11/2008 04:50:00	88.00	88.00
7/11/2008 04:55:00	88.00	88.00
7/11/2008 05:00:00	88.00	88.00
7/11/2008 05:05:00	88.87	88.87
7/11/2008 05:10:00	88.87	88.87
7/11/2008 14:05:00	116.00	116.00
7/25/2008 21:00:00	166.15	98.82
7/28/2008 01:45:00	48.00	48.00
8/13/2008 10:32:33	0.04	60.38
8/27/2008 09:45:00	454.17	75.96
8/30/2008 11:35:00	48.55	91.06
8/30/2008 11:40:00	62.88	91.06
8/30/2008 11:45:00	65.19	91.06
8/30/2008 11:50:00	164.23	91.06
8/30/2008 11:55:00	124.64	91.06
8/30/2008 12:55:00	88.98	89.46
8/30/2008 13:00:00	77.13	90.37
10/3/2008 20:35:00	57.59	53.00
10/8/2008 21:05:00	148.46	61.26
10/22/2008 16:25:23	55.23	77.21
10/22/2008 16:26:59	49.01	77.21
10/24/2008 16:45:00	633.38	91.75
11/12/2008 14:35:00	49.78	52.60
12/31/2008 12:15:00	46.89	52.43
12/31/2008 12:15:41	48.58	52.43
12/31/2008 12:18:47	46.55	52.43
12/31/2008 12:25:00	46.19	52.43
12/31/2008 12:30:00	46.21	52.43
12/31/2008 12:35:00	53.15	52.43
12/31/2008 12:40:00	44.75	52.43

Intervals listed in red are for corrected generator LBMPs located in the external control area that did not affect the external control area zonal LBMP. Thus, the zonal LBMPs were not corrected.

# OH

Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	208.57	40.28
7/11/2008 04:20:00	116.62	40.54
7/11/2008 04:25:00	114.66	40.54
7/11/2008 04:30:00	41.76	40.54
7/11/2008 04:35:00	40.52	41.99
7/11/2008 04:40:00	36.45	41.99
7/11/2008 04:45:00	0.00	41.99
7/11/2008 04:50:00	40.93	45.38
7/11/2008 04:55:00	115.00	45.38
7/11/2008 05:00:00	36.73	45.38
7/11/2008 05:05:00	9.51	37.56
7/11/2008 05:10:00	9.51	37.56
7/11/2008 14:05:00	183.19	80.18
7/25/2008 21:00:00	135.13	77.63
7/28/2008 01:45:00	0.00	45.52
8/13/2008 10:32:33	0.04	49.85
8/27/2008 09:45:00	383.61	65.07
8/30/2008 11:35:00	40.60	75.00
8/30/2008 11:40:00	53.00	75.00
8/30/2008 11:45:00	55.00	75.09
8/30/2008 11:50:00	136.45	75.09
8/30/2008 11:55:00	102.77	75.09
8/30/2008 12:55:00	75.00	75.08
8/30/2008 13:00:00	65.00	75.08
10/3/2008 20:35:00	47.55	44.10
10/8/2008 21:05:00	125.13	52.50
10/22/2008 16:25:23	49.38	66.87
10/22/2008 16:26:59	44.00	66.87
10/24/2008 16:45:00	39.99	45.42
11/12/2008 14:35:00	40.58	43.77
11/19/2008 10:05:00	50.23	65.28
11/19/2008 10:10:00	50.23	68.99
11/19/2008 10:15:00	50.23	64.29
11/19/2008 10:20:00	50.23	67.37
11/19/2008 10:25:00	50.23	69.40
11/19/2008 10:30:00	50.23	63.40
11/19/2008 10:35:00	50.23	67.93
11/19/2008 10:40:00	50.23	67.58
11/19/2008 10:45:00	50.23	70.27
11/19/2008 10:50:00	50.23	67.93
11/19/2008 10:55:00	50.23	65.66
11/19/2008 11:00:00	50.23	67.60
12/31/2008 12:15:00	27.15	27.03
12/31/2008 12:15:41	26.77	27.03
12/31/2008 12:18:47	26.73	27.03
12/31/2008 12:25:00	24.88	27.03
12/31/2008 12:30:00	24.88	27.03
12/31/2008 12:35:00	26.44	27.03
12/31/2008 12:40:00	25.55	27.03

PJM		
Time Stamp	Original LBMP	Final LBMP
7/11/2008 04:15:00	216.43	46.12
7/11/2008 04:20:00	121.01	46.36
7/11/2008 04:25:00	117.40	46.36
7/11/2008 04:30:00	97.51	46.36
7/11/2008 04:35:00	97.19	48.06
7/11/2008 04:40:00	128.60	48.06
7/11/2008 04:45:00	0.00	48.06
7/11/2008 04:50:00	41.71	51.28
7/11/2008 04:55:00	118.86	51.28
7/11/2008 05:00:00	37.48	51.28
7/11/2008 05:05:00	91.65	40.85
7/11/2008 05:10:00	91.67	40.85
7/11/2008 14:05:00	124.00	124.00
7/25/2008 21:00:00	148.69	91.31
7/28/2008 01:45:00	0.00	46.57
8/13/2008 10:32:33	0.04	56.87
8/27/2008 09:45:00	428.75	75.17
8/30/2008 11:35:00	42.69	79.84
8/30/2008 11:40:00	55.47	79.84
8/30/2008 11:45:00	58.17	88.25
8/30/2008 11:50:00	145.81	88.25
8/30/2008 11:55:00	110.10	88.25
8/30/2008 12:55:00	94.00	94.00
8/30/2008 13:00:00	94.00	94.00
10/3/2008 20:35:00	51.92	51.68
10/8/2008 21:05:00	54.00	54.00
10/22/2008 16:25:23	72.46	74.99
10/22/2008 16:26:59	67.45	74.99
10/24/2008 16:45:00	371.61	72.39
11/12/2008 14:35:00	41.97	49.52
12/23/2008 04:05:00	74.79	64.96
12/23/2008 04:10:00	74.79	73.62
12/23/2008 04:15:00	74.79	71.63
12/23/2008 04:20:00	74.79	69.95
12/23/2008 04:25:00	74.79	92.90
12/23/2008 04:28:33	74.79	89.85
12/23/2008 04:30:03	74.79	94.92
12/23/2008 04:40:00	74.79	100.23
12/23/2008 04:45:00	74.79	87.90
12/23/2008 04:50:00	74.79	96.79
12/23/2008 04:55:00	74.79	108.47
12/23/2008 05:00:00	74.79	69.29
12/31/2008 12:15:00	46.00	46.00
12/31/2008 12:15:41	46.00	46.00
12/31/2008 12:18:47	46.00	46.00
12/31/2008 12:25:00	46.00	46.00
12/31/2008 12:30:00	46.00	46.00
12/31/2008 12:35:00	46.00	46.00
12/31/2008 12:40:00	46.00	46.00

Intervals listed in red are for corrected generator LBMPs located in the external control area that did not affect the external control area zonal LBMP. Thus, the zonal LBMPs were not corrected.