



Planned Changes to Price Validation Reporting

Scheduling and Pricing Working Group
Wednesday, October 18, 2006

Draft – For discussion purposes only

Outline

- ✓ Review Enhanced Price Validation Project Drivers
- ✓ Review Price Correction Log
 - Current State
 - Future State Prototype
 - Key Differences
- ✓ Review Market Participant Correction Report
 - Current State
 - Future State Prototype
 - Key Differences
- ✓ Discuss Any Additional Requests



Enhanced Price Validation Project Drivers

- ✓ Greater consistency and repeatability
- ✓ Greater standardization of business processes and maturity of IT tools
- ✓ Greater certainty of energy market prices
- ✓ Greater accuracy, timeliness, and **transparency** of energy market prices



Price Correction Log – Background

✓ Background / Purpose

- Posted daily
- Displays current state of every hour of every day in a month
- Tracks the Market Settlement Date, Operating Date, Correction Due Date and Correction Processing Date for each Reservation Date
- Provides a count of all Original, Reserved, Corrected, Released and Verified hours in each day

✓ Issues

- Does not show any data for Correction Due Date and Correction Processing Date
- Lacks traceability – Can't determine whether hours that were verified had been corrected or released with looking through each previous Price Correction Log



Price Correction Log – Current State

LBMP CORRECTION LOG

O=Original N=No Chg Req
R=Resen, C=Changed V=Verified

Reservation Date	Market	Market Settlement Date	Operating Date	Correction Due Date	Correction Processing Date																								O	R	N	C	V	
						0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22						23
1-Oct-06	DAM	30-Sep	1-Oct																										24	0	0	0	0	
	Ext. HAM	30-Sep	30-Sep																											24	0	0	0	0
	RT	30-Sep	30-Sep																											24	0	0	0	0
2-Oct-06	DAM	1-Oct	2-Oct																										24	0	0	0	0	
	Ext. HAM	1-Oct	1-Oct																											24	0	0	0	0
	RT	1-Oct	1-Oct																											24	0	0	0	0
3-Oct-06	DAM	2-Oct	3-Oct																										24	0	0	0	0	
	Ext. HAM	2-Oct	2-Oct	FALSE																										24	0	0	0	0
	RT	2-Oct	2-Oct																											23	0	0	0	0
4-Oct-06	DAM	3-Oct	4-Oct																										24	0	0	0	0	
	Ext. HAM	3-Oct	3-Oct																											24	0	0	0	0
	RT	3-Oct	3-Oct																											21	0	0	0	3
5-Oct-06	DAM	4-Oct	5-Oct																										24	0	0	0	0	
	Ext. HAM	4-Oct	4-Oct																											24	0	0	0	0
	RT	4-Oct	4-Oct																											24	0	0	0	0
6-Oct-06	DAM	5-Oct	6-Oct																										24	0	0	0	0	
	Ext. HAM	5-Oct	5-Oct																											24	0	0	0	0
	RT	5-Oct	5-Oct																											24	0	0	0	0
7-Oct-06	DAM	6-Oct	7-Oct																										24	0	0	0	0	
	Ext. HAM	6-Oct	6-Oct																											24	0	0	0	0
	RT	6-Oct	6-Oct																											24	0	0	0	0
8-Oct-06	DAM	7-Oct	8-Oct																										24	0	0	0	0	
	Ext. HAM	7-Oct	7-Oct																											24	0	0	0	0
	RT	7-Oct	7-Oct																											24	0	0	0	0
9-Oct-06	DAM	8-Oct	9-Oct																										24	0	0	0	0	
	Ext. HAM	8-Oct	8-Oct																											24	0	0	0	0
	RT	8-Oct	8-Oct																											24	0	0	0	0
10-Oct-06	DAM	9-Oct	10-Oct																										24	0	0	0	0	
	Ext. HAM	9-Oct	9-Oct																											0	0	0	0	0
	RT	9-Oct	9-Oct																											0	0	0	0	0
11-Oct-06	DAM	10-Oct	11-Oct																										0	0	0	0	0	
	Ext. HAM	10-Oct	10-Oct																											0	0	0	0	0
	RT	10-Oct	10-Oct																											0	0	0	0	0
12-Oct-06	DAM	11-Oct	12-Oct																										0	0	0	0	0	
	Ext. HAM	11-Oct	11-Oct																											0	0	0	0	0
	RT	11-Oct	11-Oct																											0	0	0	0	0
13-Oct-06	DAM	12-Oct	13-Oct																										0	0	0	0	0	
	Ext. HAM	12-Oct	12-Oct																											0	0	0	0	0
	RT	12-Oct	12-Oct																											0	0	0	0	0
14-Oct-06	DAM	13-Oct	14-Oct																										0	0	0	0	0	
	Ext. HAM	13-Oct	13-Oct																											0	0	0	0	0
	RT	13-Oct	13-Oct																											0	0	0	0	0
15-Oct-06	DAM	14-Oct	15-Oct																										0	0	0	0	0	
	Ext. HAM	14-Oct	14-Oct																											0	0	0	0	0
	RT	14-Oct	14-Oct																											0	0	0	0	0
16-Oct-06	DAM	15-Oct	16-Oct																										0	0	0	0	0	
	Ext. HAM	15-Oct	15-Oct																											0	0	0	0	0
	RT	15-Oct	15-Oct																											0	0	0	0	0
17-Oct-06	DAM	16-Oct	17-Oct																										0	0	0	0	0	
	Ext. HAM	16-Oct	16-Oct																											0	0	0	0	0
	RT	16-Oct	16-Oct																											0	0	0	0	0
	DAM	17-Oct	18-Oct																										0	0	0	0	0	

Prepared by
NYISO IS Dept

1 of 2

As of
10/10/2006 @ 04:07

Price Correction Log – New Prototype

Price Correction Log - RTD

Correction Log Key:

Original N Reserved & Released (Not Corrected)
 R Reserved C Reserved & Corrected

Market Date	Reservation Date	Correction Due Date	Correction/Release Date	HOURS																								COUNTS			
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	O	R	C	N
01/01/06	01/02/06	01/05/06	01/05/06																							24	00	00	00		
01/02/06	01/03/06	01/06/06	01/06/06																							24	00	00	00		
01/03/06	01/04/06	01/07/06	01/07/06				C		N		C			C		N		C	C		N		C		15	00	06	03			
01/04/06	01/05/06	01/08/06	01/08/06																							24	00	00	00		
01/05/06	01/06/06	01/09/06	01/09/06		N		N																	N	21	00	00	03			
01/06/06	01/07/06	01/10/06	01/10/06		N							N							N						21	00	00	03			
01/07/06	01/08/06	01/11/06	01/11/06																						24	00	00	00			
01/08/06	01/09/06	01/12/06	01/12/06																						24	00	00	00			
01/09/06	01/10/06	01/13/06	01/13/06		N								N												22	00	00	02			
01/10/06	01/11/06	01/14/06	01/14/06						N						N						N				21	00	00	03			
01/11/06	01/12/06	01/15/06	01/15/06																						24	00	00	00			
01/12/06	01/13/06	01/16/06	01/16/06			C							C										C		21	00	03	00			
01/13/06	01/14/06	01/17/06	01/17/06			C						N		C				N				N	C		18	00	03	03			
01/14/06	01/15/06	01/18/06	01/18/06														N						N		22	00	00	03			
01/15/06	01/16/06	01/19/06	01/19/06									C													23	00	01	00			
01/16/06	01/17/06	01/20/06	01/20/06		C		C		C		C		C		C				C		C		C		12	00	12	00			
01/17/06	01/18/06	01/21/06	01/21/06																						24	00	00	00			
01/18/06	01/19/06	01/22/06	01/22/06																						24	00	00	00			
01/19/06	01/20/06	01/23/06	01/23/06																						24	00	00	00			
01/20/06	01/21/06	01/24/06	01/24/06																						24	00	00	00			
01/21/06	01/22/06	01/25/06	01/25/06										C					C					C		21	00	03	00			
01/22/06	01/23/06	01/26/06	01/26/06																						24	00	00	00			
01/23/06	01/24/06	01/27/06	01/27/06																						24	00	00	00			
01/24/06	01/25/06	01/28/06	01/28/06																				C		21	00	03	00			
01/25/06	01/26/06	01/29/06	01/29/06																						24	00	00	00			
01/26/06	01/27/06	01/30/06	01/30/06																						23	00	00	01			
01/27/06	01/28/06	01/31/06	01/31/06																						21	01	00	02			
01/28/06	01/29/06	02/01/06			R																				22	02	00	00			
01/29/06	01/30/06	02/02/06																							21	03	00	01			
01/30/06	01/31/06	02/03/06			N																				18	03	00	03			
01/31/06	02/01/06	02/04/06																								21	03	00	00		



Price Correction Log – Key Differences

- ✓ The report will be generated for all three markets and will still be generated daily, but the same report will be updated each day and the trail of previous day's information will not be lost
 - ***Only three reports are needed each month instead of thirty***
- ✓ The report now contains Correction Due Date and Correction / Release Date
 - ***Accurately track the full lifecycle of hourly price changes each day***
- ✓ The report has been redesigned to improve usability
 - ***Better look and feel***



Correction Report – Background

✓ Background / Purpose

- Posted weekly
- Displays full correction details for every corrected interval in a month

✓ Issues

- List of Correction Modes is redundant
- Does not provide additional correction details for intervals that were corrected via Replacement or Average
- Currently only exists for RTD



Correction Report – Current State

RTD Energy Price Correction Report																												
Error Description:						Correction Mode:																						
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																					
Error Type:						Intervals Corrected by Zone																						
I	Calculation Error					WEST	CENTRL	MHK VL	CAPITL	HUD VL	GENESE	LONGIL	NORTH	NYC	MILLWD	DUNWOOD	HQ	NPX	OH	PJM	Additional Comments							
II	Incorrect Price Setting Resource					First Interval	Last Interval	# of Intervals corrected	Hours with Corrections	Error Type	Error Description	Correction Mode	WEST	CENTRL	MHK VL	CAPITL	HUD VL	GENESE	LONGIL	NORTH	NYC	MILLWD	DUNWOOD	HQ	NPX	OH	PJM	Additional Comments
1-Jun-2006	13:45:00	13:45:00	1	13	II	2	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	1	Operationally ineffective dispatch - HUD VL	
1-Jun-2006	13:50:00	13:50:00	1	13	II	2	b	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	1	Operationally ineffective dispatch - HUD VL	
1-Jun-2006	16:10:00	16:10:00	1	16	II	2	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	1	Operationally ineffective dispatch - HUD VL	
1-Jun-2006	16:15:00	16:20:00	2	16	II	2	b	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-	2	Operationally ineffective dispatch - HUD VL	
1-Jun-2006	17:25:00	17:50:00	4	17	II	2	d	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	-	-	-	-	Operationally ineffective dispatch - HUD VL	
1-Jun-2006	20:35:00	20:40:00	2	20	II	2	d	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-	Operationally ineffective dispatch - HUD VL	
4-Jun-2006	06:55:00	07:10:00	4	6 - 7	II	7	f	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	No basepoints - HUD VL - 200 to 500 MW Gen	
6-Jun-2006	13:00:00	13:00:00	1	12	II	4	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	No basepoints - NYC & CAPITL units - 200 to 500 MW	
6-Jun-2006	13:55:00	14:10:00	4	13 - 14	II	4	c	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	No basepoints - NYC & CAPITL units - 200 to 500 MW	
12-Jun-2006	12:55:00	12:55:00	1	12	II	2	a	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
13-Jun-2006	15:25:00	15:25:00	1	15	II	2	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
13-Jun-2006	15:40:00	15:40:00	1	15	II	2	a	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
13-Jun-2006	16:30:00	16:50:00	4	16	II	2	d	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Operationally ineffective dispatch - LI	
13-Jun-2006	17:05:00	17:10:00	2	17	II	2	a	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Operationally ineffective dispatch - LI	
13-Jun-2006	18:20:00	18:25:00	2	18	II	2	a	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Operationally ineffective dispatch - LI	
13-Jun-2006	18:45:00	18:45:00	1	18	II	2	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
13-Jun-2006	19:00:00	19:00:00	1	18	II	2	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
13-Jun-2006	19:10:00	19:20:00	3	19	II	2	a	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Operationally ineffective dispatch - LI	
13-Jun-2006	19:30:00	19:30:00	1	19	II	2	b	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
13-Jun-2006	19:50:00	19:50:00	1	19	II	2	d	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Operationally ineffective dispatch - LI	
16-Jun-2006	15:55:00	15:55:00	1	15	II	2	j	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Operationally ineffective dispatch - LI	
16-Jun-2006	16:05:00	16:08:00	2	16	II	2	j	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Operationally ineffective dispatch - LI	
16-Jun-2006	18:20:00	18:40:00	5	16	II	2	j	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Operationally ineffective dispatch - LI	
16-Jun-2006	18:30:00	18:50:00	4	18	II	2	j	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Operationally ineffective dispatch - LI	

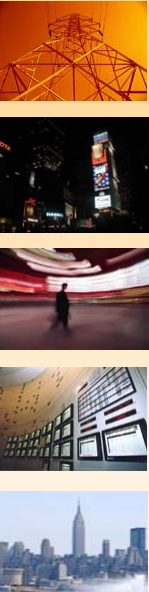
Correction Report – New Prototype

Energy Price Correction Report - RTD

Error Description Key:													Correction Mode Key:																													
1. Posting Error	2. Indeterminacy/Penalty or Shift Factor Trade-offs					3. Data Error – Static Data	4. Computer System Failure	5. Software Error	6. Telemetry	7. Prices Inconsistent with Dispatch/No Marginal Unit	8. Operator Input																															
Error Type Key:																																										
I	Calculation Error								I & II	Calculation Error & Incorrect Price Setting Resource																																
06/01/2006	13:45:00	13:45:00	1	13	II	2	d																																			Operationally ineffective dispatch - HUD VL
06/01/2006	13:50:00	13:50:00	1	13	II	2	b	RTC	06/01/2006 06/01/2006	13:45:00 14:00:00	01,01																														Operationally ineffective dispatch - HUD VL	
06/01/2006	16:10:00	16:10:00	1	16	II	2	d																																		Operationally ineffective dispatch - HUD VL	
06/01/2006	16:15:00	16:20:00	2	16	II	2	b	RTC	06/01/2006 06/01/2006	16:15:00 16:30:00	01,01																														Operationally ineffective dispatch - HUD VL	
06/01/2006	17:25:00	17:50:00	4	17	II	2	d																																		Operationally ineffective dispatch - HUD VL	
06/01/2006	20:35:00	20:40:00	2	20	II	2	d																																	Operationally ineffective dispatch - HUD VL		
06/04/2006	06:55:00	07:10:00	4	6-7	II	7	f																																	No basepoints - HUD VL - 200 to 500 MW Gen		
06/06/2006	13:00:00	13:00:00	1	12	I & II	3,4	d																																	No basepoints - NYC & CAPITL units - 200 to 500 MW		
06/06/2006	13:55:00	14:10:00	4	13-14	II	4	c																																No basepoints - NYC & CAPITL units - 200 to 500 MW			
06/12/2006	12:55:00	12:55:00	1	12	II	2	a	RTC	06/12/2006	13:45:00	01																													Operationally ineffective dispatch - LI		
06/13/2006	15:25:00	15:25:00	1	15	II	2	d																																	Operationally ineffective dispatch - LI		
06/13/2006	15:40:00	15:40:00	1	15	II	2	a	RTC	06/13/2006	15:45:00	01																													Operationally ineffective dispatch - LI		
06/13/2006	16:30:00	16:50:00	4	16	I	2,4	d																																	Operationally ineffective dispatch - LI		
06/13/2006	17:05:00	17:10:00	2	17	II	2	a	RTC	06/13/2006	17:00:00	01																														Operationally ineffective dispatch - LI	
06/13/2006	18:20:00	18:25:00	2	18	II	2	a	RTC	06/13/2006	18:15:00	01																														Operationally ineffective dispatch - LI	
06/13/2006	18:45:00	18:45:00	1	18	II	2	d																																	Operationally ineffective dispatch - LI		
06/13/2006	19:00:00	19:00:00	1	18	II	2	d																																	Operationally ineffective dispatch - LI		
06/13/2006	19:10:00	19:20:00	3	19	II	2	a	RTC	06/13/2006	18:15:00	01																														Operationally ineffective dispatch - LI	
06/13/2006	19:30:00	19:30:00	1	19	II	2	b	RTC	06/01/2006 06/01/2006	16:15:00 16:30:00	01,01																														Operationally ineffective dispatch - LI	
06/13/2006	19:50:00	19:50:00	1	19	II	2	d																																		Operationally ineffective dispatch - LI	

Correction Report – Key Differences

- ✓ The report will now be generated for all three markets
 - ***More transparency for corrections in each market***
- ✓ The list of Correction Modes has been cut down to remove redundancy
 - ***Correction Modes are more clear and intuitive***
- ✓ The report now provides Reference Market, Interval and Base Point information for Intervals corrected via the “Replacement” or “Average” Correction Modes
 - ***More correction details are provided***
- ✓ Potential to post more frequently if determined to add value
 - ***Accelerated notification of correction details***



Additional Requests for PV Reporting?

- ✓ Please submit requests to both:
 - Mike Martin: mmartin@nyiso.com
 - Larry Sutkowski: lsutkowski@nyiso.com

