

September 2006 Real-Time Market Price Corrections

Prepared for the

ISO Scheduling & Pricing Working Group



Background/Problem

- 29 of the 33 hours in September 2006 that had price corrections resulted from telemetry related errors
- In a single 37 hour period, there were 23 hours that required price corrections.
- An intermittent telemetry failure involving the East Garden City PAR MW values resulted in a substantial number of incorrect Real-Time Market outcomes requiring price corrections

RTD Energy Price Correction Report Error Description: Correction Mode: a Replace w/Preceeding Interval Posting Error 2 Indeterminancy / Penalty or Shift Factor Trade-offs Replace w/Subsequent Interval 3 Data Error - Static Average - Preceeding & Subsequent 4 Computer System Failure Replace w/RTD Advisory Price Substitution w/Similar Bus Price 5 Software Error 6 RTD Re-Run Telemetry Replace w/RTC Prices Prices Inconsistent w/Dispatch / No Marginal Unit 8 Operator Input Replace w/SCUC Prices Error Type: Recalculation - External Proxy Calculation Error Recalculation 11 Incorrect Price Setting Resource Intervals Corrected by Zone Error Description Correction Mode Hours with Corrections Last Interval of Interval **Error Type** CENTRL HUD VL ONGIL NORTH MILLWD WEST NYC NPX **Additional Comments** 01:15:00 01:20:00 01 4-Sep-2006 Metering error on PAR - LI 4-Sep-2006 02:25:00 02:25:00 02 II 6 Metering error on PAR - LI d II 4-Sep-2006 03:50:00 03:50:00 03 6 d Metering error on PAR - LI 11 4-Sep-2006 04:15:00 04:15:00 04 6 d Metering error on PAR - LI 11 Metering error on PAR - LI 4-Sep-2006 05:05:00 05:05:00 05 6 d Metering error on PAR - LI 4-Sep-2006 05:45:00 05:45:00 05 Metering error on PAR - LI 4-Sep-2006 09:20:00 09:20:00 09 II d 4-Sep-2006 12:35:00 12:35:00 12 Metering error on PAR - LI 4-Sep-2006 12:45:00 12:45:00 12 П d 1 Metering error on PAR - LI Ш Metering error on PAR - LI 4-Sep-2006 14:50:00 14:50:00 14 6 C 17 Metering error on PAR - LI 4-Sep-2006 17:50:00 17:50:00 6 C 4-Sep-2006 19:05:00 19:05:00 19 6 d Metering error on PAR - LI 4-Sep-2006 19:15:00 19:15:00 19 II 6 d Metering error on PAR - LI 4-Sep-2006 19:19:52 19:19:52 19 II 6 d Metering error on PAR - LI 4-Sep-2006 22:25:00 22:25:00 22 11 6 d Metering error on PAR - LI 4-Sep-2006 22:55:00 22:55:00 22 Metering error on PAR - LI 6 4-Sep-2006 23:10:00 23:10:00 23 11 6 Metering error on PAR - LI 4-Sep-2006 23:20:00 23:20:00 23 П 6 d Metering error on PAR - LI 4-Sep-2006 23:30:00 23:30:00 23 П 6 d 1 Metering error on PAR - LI 5-Sep-2006 00:00:00 00:00:00 23 П 6 1 Metering error on PAR - LI 00 1 Metering error on PAR - LI 5-Sep-2006 00:02:00 00:02:00 II 6 b Metering error on PAR - LI 5-Sep-2006 00:04:20 00:04:20 00 11 6 C Metering error on PAR - LI 5-Sep-2006 00:20:00 00:20:00 00 11 6 C 1 Metering error on PAR - LI 5-Sep-2006 00:25:00 00:25:00 00 11 6 C 11 6 1 Metering error on PAR - LI 5-Sep-2006 00:42:22 00:42:22 00 C 1 Metering error on PAR - LI 5-Sep-2006 00:45:08 00:45:08 00 C 5-Sep-2006 01:05:00 01:05:00 01 Ш d Metering error on PAR - LI 1 Metering error on PAR - LI 5-Sep-2006 01:35:00 01:35:00 01 II 6 d II 1 Metering error on PAR - LI 5-Sep-2006 01:55:00 01:55:00 01 6 1 Metering error on PAR - LI 5-Sep-2006 02:25:00 02:25:00 02 5-Sep-2006 02:35:00 02:35:00 Metering error on PAR - LI 02 6 d 5-Sep-2006 02:55:00 02:55:00 02 11 6 Metering error on PAR - LI 5-Sep-2006 03:20:00 03:20:00 11 6 Metering error on PAR - LI 03 d 5-Sep-2006 04:55:00 04:55:00 04 11 6 Metering error on PAR - LI 11 Metering error on PAR - LI 5-Sep-2006 07:35:00 07:35:00 07 6 d 5-Sep-2006 08:30:00 08:30:00 08 Metering error on PAR - LI 6 d 5-Sep-2006 09:15:00 09:20:00 09 11 6 d Metering error on PAR - LI II 5-Sep-2006 10:15:00 10:15:00 10 6 Metering error on PAR - LI 11 5-Sep-2006 10:40:00 10:40:00 10 6 Metering error on PAR - LI d 5-Sep-2006 11:20:00 11:20:00 11 Ш Metering error on PAR - LI d 5-Sep-2006 12:20:00 12:20:00 1 Metering error on PAR - LI 12 11 6 d 1 Metering errors on PAR - LI 7-Sep-2006 23:00:00 23:00:00



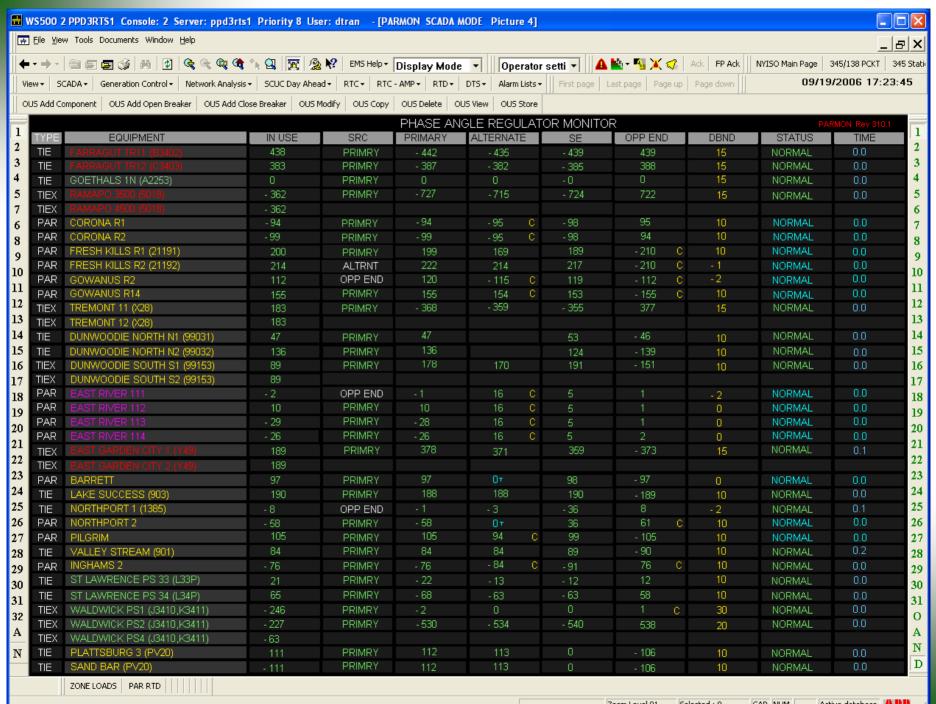
Background/Problem

- Most telemetry related errors do not result in price corrections since the implementation of Intelligent Source Selection of Generation and Tie-Line Metering
- The RTS Zonal Load Filter and Intelligent Source Selection was discussed in detail at the S&P WG in January 2006 and BPCTF in April 2006
 - All NYCA tie-lines are included
 - 44 of 48 generating units with >200MW capability are included
- However, some phase angle regulator MW telemetry remains that was used by RTC/RTD and was not part of the Intelligent Source Selection function



Resolution/Fix

- Initial interim fix on 9/5 was to request the Transmission
 Owner supply an alternate data point in place of failed value
- End-state fix was to develop an Intelligent Source Selection (ISS) process similar to that for Generation and Tie-Lines
- New process uses three (3) independent data points to determine whether the primary or alternate data source should be used – similar to existing ISS process
- Implementation date for new process was October 11



Zoom Level 01

Selected: 0

CAP NUM

Active database 🔼 👯