

Price Correction Report

Week of Mar 13 –17, 2017

Overview

This document is intended to meet the requirements of ISO Tariff section 35.6, and provides the Market Participants with a summary of all price corrections that occurred during the week. For example, report titled with May 5-9, 2014 will cover all corrections made during the week of May 5-9. In a normal situation, it will include trade dates that have price corrections which are due between May 5- 9, 2014 based on the new 5 business day for real-time market and 3 business day for Day Ahead market.

The structure of the report is as follows:

- Price correction listing – this section includes a listing of all the corrections, including market intervals affected, locations, reason (which would tie back to the description of issues section), and method of price correction.
- Description of Issues – this section describes each issue which resulted in a correction in more detail.
- Price-fill report – metrics on the number of empty price intervals that were filled by adjacent interval prices, usually due to failed runs.

For the week covered by this report, **1625** intervals were corrected.

The trade dates covered by this report are:

DAM: 3/8/2017 – 3/14/2017

RTM: 3/6/2017 – 3/12/2017

Correction methodologies

The following are the definitions of the correction methodologies used:

Selective recalculation: The CAISO will selectively recalculate incorrect financially binding prices when the invalid prices are isolated and can be corrected such that no other financially binding prices are affected by the correction.

System recalculation: The CAISO will recalculate all prices for the invalidated market interval using corrected or recreated input data, or repaired software as applicable.

Replacement: If the above correction methods are not applicable and practicable, the CAISO shall use, in place of prices for the binding interval of an invalidated market solution, replicated prices from binding or advisory intervals from the validated market solution in which the market conditions were most similar to the market conditions in the invalidated market solution for the affected interval.

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Price Correction Listing

The following is a list of the corrections made during the week, sorted by date and time. The number to the left of the reason field corresponds to the issue number in the Description of Issues section. The count of corrected Pnode/Apnode for each corrected interval is listed left to the Affected Location field.

Corrections made through selective recalculation: 187

Date	HE	Interval	Market	#	Reason	Count of Corrected Pnode/Apnode	Affected Location
06Mar2017	15	1	RTPD	7	Software Defect		Local
06Mar2017	15	2-4	RTPD	7	Software Defect	1333	Local
06Mar2017	17-18	1	RTPD	7	Software Defect	1333	Local
07Mar2017	12	4-6	RTD	6	Data Input Error	3198	Local
07Mar2017	16	12	RTD	7	Software Defect		Local
07Mar2017	1	2	RTPD	6	Data Input Error	1390	Local
07Mar2017	12	4	RTPD	6	Data Input Error	1371	Local
07Mar2017	13	1-2	RTPD	6	Data Input Error	3198	Local
07Mar2017	16	1-2,4	RTPD	7	Software Defect		Local
07Mar2017	22	2-3	RTPD	2	Data Input Error	1333	Local
08Mar2017	2	10	RTD	2	Data Input Error	3228	Local
08Mar2017	3	2	RTPD	2	Data Input Error	3198	Local
09Mar2017	18	1	RTPD	5	Software Defect	73	Local
09Mar2017	18	2	RTPD	5	Software Defect	77	Local
09Mar2017	19	1	RTPD	3	Software Defect	78	Local
09Mar2017	19	2,4	RTPD	4	Software Defect	76	Local
09Mar2017	19	3	RTPD	3	Software Defect	81	Local
09Mar2017	20	1-2,4	RTPD	4	Software Defect	74	Local
09Mar2017	21	1	RTPD	3	Software Defect	83	Local
09Mar2017	21	2-3	RTPD	3	Software Defect	78	Local
10Mar2017	2	1-2,6-9,11	RTD	6	Data Input Error	2252	Local
10Mar2017	2	10,12	RTD	6	Data Input Error	3198	Local
10Mar2017	2	3	RTD	6	Data Input Error	3211	Local
10Mar2017	2	4	RTD	6	Data Input Error	3212	Local
10Mar2017	2	5	RTD	6	Data Input Error	3209	Local
10Mar2017	3	1	RTD	6	Data Input Error	2708	Local
10Mar2017	3	12	RTD	6	Data Input Error	3205	Local
10Mar2017	3	2-3	RTD	6	Data Input Error	3211	Local
10Mar2017	3	4,6	RTD	6	Data Input Error	3212	Local
10Mar2017	3	7,9	RTD	6	Data Input Error	3198	Local
10Mar2017	3	8	RTD	6	Data Input Error	2252	Local
10Mar2017	4	1	RTD	6	Data Input Error	3199	Local
10Mar2017	4	10	RTD	6	Data Input Error	2702	Local
10Mar2017	4	11	RTD	6	Data Input Error	3205	Local
10Mar2017	4	12	RTD	6	Data Input Error	3200	Local
10Mar2017	4	3-8	RTD	6	Data Input Error	2252	Local
10Mar2017	4	9	RTD	6	Data Input Error	3206	Local
10Mar2017	4,8	2	RTD	6	Data Input Error	3198	Local

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10Mar2017	5	1,3-12	RTD	6	Data Input Error	2252	Local
10Mar2017	5	2	RTD	6	Data Input Error	2230	Local
10Mar2017	6	10-11	RTD	6	Data Input Error	3215	Local
10Mar2017	6	12	RTD	6	Data Input Error	2266	Local
10Mar2017	6	4	RTD	6	Data Input Error	3199	Local
10Mar2017	6	5	RTD	6	Data Input Error	2253	Local
10Mar2017	6	6	RTD	6	Data Input Error	2257	Local
10Mar2017	6	7	RTD	6	Data Input Error	2269	Local
10Mar2017	7	1	RTD	6	Data Input Error	3211	Local
10Mar2017	7	2	RTD	6	Data Input Error	3215	Local
10Mar2017	7	3	RTD	6	Data Input Error	2269	Local
10Mar2017	7	4	RTD	6	Data Input Error	2276	Local
10Mar2017	7	8	RTD	6	Data Input Error	3214	Local
10Mar2017	7	9-12	RTD	6	Data Input Error	3198	Local
10Mar2017	8	1	RTD	6	Data Input Error	3177	Local
10Mar2017	2	2	RTPD	6	Data Input Error	2706	Local
10Mar2017	2	3	RTPD	6	Data Input Error	3200	Local
10Mar2017	2-3	4	RTPD	6	Data Input Error	3198	Local
10Mar2017	3	1	RTPD	6	Data Input Error	3212	Local
10Mar2017	4	2,4	RTPD	6	Data Input Error	3211	Local
10Mar2017	4	3	RTPD	6	Data Input Error	3212	Local
10Mar2017	4-5	1	RTPD	6	Data Input Error	3198	Local
10Mar2017	5	2	RTPD	6	Data Input Error	3208	Local
10Mar2017	5	3	RTPD	6	Data Input Error	3222	Local
10Mar2017	8	3	RTPD	6	Data Input Error	2708	Local
10Mar2017	8	4	RTPD	6	Data Input Error	2720	Local
11Mar2017	21	1-2	RTD	8	Software Defect	921	Local
11Mar2017	21	3	RTD	8	Software Defect	923	Local
11Mar2017	21	4	RTD	8	Software Defect	922	Local
11Mar2017	21	4	RTPD	8	Software Defect		Local
12Mar2017	1-2,4-24	0	DA	9	Data Input Error		Local
13Mar2017	1-24	0	DA	9	Data Input Error		Local
14Mar2017	1-24	0	DA	9	Data Input Error		Local

Corrections made through interval replacement: 1545

Date	HE	Interval	Market	#	Reason	Affected Location
06Mar2017	18	9-12	RTD	1	Tariff	NEVP
06Mar2017	19-24	1-12	RTD	1	Tariff	NEVP
06Mar2017	18	3-4	RTPD	1	Tariff	NEVP
06Mar2017	19-24	1-4	RTPD	1	Tariff	NEVP
07Mar2017	1-24	1-12	RTD	1	Tariff	NEVP
07Mar2017	1-24	1-4	RTPD	1	Tariff	NEVP
08Mar2017	1-24	1-12	RTD	1	Tariff	NEVP
08Mar2017	1-24	1-4	RTPD	1	Tariff	NEVP
09Mar2017	1-24	1-12	RTD	1	Tariff	NEVP
09Mar2017	1-24	1-4	RTPD	1	Tariff	NEVP
10Mar2017	1-18	1-12	RTD	1	Tariff	NEVP
10Mar2017	1-18	1-4	RTPD	1	Tariff	NEVP
08MAR2017	2	1	RTPD	10	Data Input Error	System

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08MAR2017	2	3	RTD	10	Data Input Error	System
11MAR2017	16	12	RTD	11	Data Input Error	System

Corrections made through market rerun: 0

Description of Issues:

1. Tariff:

- Due to NEVP market interruption all NEVP prices were set based administrative pricing rules.

Prices were corrected by interval replacement.

2. Data Input Error:

- Invalid EIM prices due to data input error impacting EIM functionality.

Prices were corrected by selective recalculation.

3. Software Defect:

- Invalid congestion on IPPUTAH_ITC and IPPDCADLN_ITC due to a software defect impacting resource schedule.

Prices were corrected by selective recalculation.

4. Software Defect:

- Invalid congestion on IPPDCADLN_ITC due to a software defect impacting resource schedule.

Prices were corrected by selective recalculation.

5. Software Defect:

- Invalid congestion on IPPUTAH_ITC due to a software defect impacting resource schedule.

Prices were corrected by selective recalculation.

6. Data Input Error:

- Invalid prices due to a data input error related to incorrect transfer capacity.

Prices were corrected by selective recalculation.

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7. Software Defect:

- Invalid prices due to a software defect related to EIM functionality.

Prices were corrected by selective recalculation.

8. Software Defect:

- Invalid prices due to a software issue impacting resource dispatch.

Prices were corrected by selective recalculation.

9. Data Input Error:

- Invalid regulation down price due to incorrect regulation requirement for a sub region.

Prices were corrected by selective recalculation.

10. Data Input Error:

- Due to winter release that led to a data input error.

Prices were corrected by interval replacement.

11. Data Input Error:

- Invalid prices due to a data input error impacting load forecast.

Prices were corrected by interval replacement.

Price Fill Report

A price fill occurs whenever a market run failed to publish to the Settlement system. This usually occurs whenever a market run failed, for example when a market fails to come to a solution. It could also occur when an operator decides that a market is not to be run, for example during a contingency event. Automatic price fills also occur in real-time when an operator chooses to utilize the previous interval's solution for the current interval.

Prices are filled by replicating prices from the previous interval, consistent with CAISO Tariff section 7.7.4(3), which states that administrative pricing applies to price intervals where we have had a market disruption, and requires the price to be set "at the applicable price in the Settlement Period immediately preceding the Settlement Period in which the intervention took place." When A.S. fill is required for a RTPD run, the gap is filled with Day Ahead prices. Energy price fill of RTPD run follow the same rule as RTD market.

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The number of prices which were adjusted by the fill process is as follows.

Total number of filled price intervals: 46

Date	HE	Interval	Market
07MAR2017	23	4	RTPD
07MAR2017	23	7	RTD
07MAR2017	23	8	RTD
07MAR2017	23	9	RTD
07MAR2017	23	10	RTD
07MAR2017	23	11	RTD
07MAR2017	23	12	RTD
07MAR2017	24	1	RTD
07MAR2017	24	1	RTPD
07MAR2017	24	2	RTD
07MAR2017	24	2	RTPD
07MAR2017	24	3	RTD
07MAR2017	24	3	RTPD
07MAR2017	24	4	RTD
07MAR2017	24	4	RTPD
07MAR2017	24	5	RTD
07MAR2017	24	6	RTD
07MAR2017	24	7	RTD
07MAR2017	24	8	RTD
07MAR2017	24	9	RTD
07MAR2017	24	10	RTD
07MAR2017	24	11	RTD
07MAR2017	24	12	RTD
08MAR2017	1	1	RTD
08MAR2017	1	1	RTPD
08MAR2017	1	2	RTD
08MAR2017	1	2	RTPD
08MAR2017	1	3	RTD
08MAR2017	1	3	RTPD
08MAR2017	1	4	RTD
08MAR2017	1	5	RTD
08MAR2017	1	6	RTD
08MAR2017	1	7	RTD
08MAR2017	1	8	RTD
08MAR2017	1	9	RTD
08MAR2017	1	10	RTD
08MAR2017	1	11	RTD
08MAR2017	1	12	RTD
08MAR2017	2	1	RTD
08MAR2017	2	2	RTD
08MAR2017	16	3	RTD
08MAR2017	20	4	RTPD
08MAR2017	20	7	RTD
08MAR2017	20	8	RTD
08MAR2017	21	1	RTPD
12MAR2017	12	7	RTD

Note: Intervals filled are subject to subsequent price corrections where applicable.