

Price Correction Report

Week of Jul 25 – 29, 2022

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 five business day for Real-Time market and three 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, **939** intervals were corrected.

The trade dates covered by this report are:

DAM: 7/20/2022 – 7/26/2022

RTM: 7/18/2022 – 7/24/2022

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, provided with 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. In case of many intervals with the same correction reason, instead of providing the exact count of corrected Pnode/Apnode, the range of Pnode/Apnode affected is provided and listed in another table. Please note that there are only flex ramp prices corrections or AS price corrections for those intervals that have the Count of Corrected Pnode/Apnode column missing.

Corrections made through selective recalculation: 964

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
07/18/2022	1	3-7	RTD	2	Data Input Error	4	Local
07/18/2022	20	1-7,9,11-12	RTD	2	Data Input Error	4	Local
07/18/2022	4	10-11	RTD	2	Data Input Error	4	Local
07/18/2022	5	1,9-12	RTD	2	Data Input Error	4	Local
07/18/2022	6	9-12	RTD	2	Data Input Error	4	Local
07/18/2022	7,10-19,21-24	1-12	RTD	2	Data Input Error	4	Local
07/18/2022	8	10-12	RTD	2	Data Input Error	4	Local
07/18/2022	9	2-12	RTD	2	Data Input Error	4	Local
07/18/2022	5-6,9-24	1-4	RTPD	2	Data Input Error	4	Local
07/18/2022	7	1,3-4	RTPD	2	Data Input Error	4	Local
07/18/2022	8	4	RTPD	2	Data Input Error	4	Local
07/19/2022	1,3-6,10-14,16-17	1-12	RTD	2	Data Input Error	4	Local
07/19/2022	15	1-2,5-12	RTD	2	Data Input Error	4	Local
07/19/2022	18	1-3	RTD	2	Data Input Error	4	Local
07/19/2022	2	1,3-4,6-12	RTD	2	Data Input Error	4	Local
07/19/2022	22	8-12	RTD	2	Data Input Error	4	Local
07/19/2022	23	1,8-10	RTD	2	Data Input Error	4	Local
07/19/2022	7	1-3,6	RTD	2	Data Input Error	4	Local
07/19/2022	8	7-12	RTD	2	Data Input Error	4	Local
07/19/2022	9	9-12	RTD	2	Data Input Error	4	Local
07/19/2022	1-7,10-17	1-4	RTPD	2	Data Input Error	4	Local
07/19/2022	18	1-3	RTPD	2	Data Input Error	4	Local
07/19/2022	23	3-4	RTPD	2	Data Input Error	4	Local
07/19/2022	9	4	RTPD	2	Data Input Error	4	Local
07/20/2022	15	10	RTD	1	Data Input Error	579	Local
07/20/2022	15	11	RTD	1	Data Input Error	578	Local
07/20/2022	15	12	RTD	2	Data Input Error	4	Local
07/20/2022	15	12	RTD	1	Data Input Error	589	Local
07/20/2022	15	9	RTD	1	Data Input Error	588	Local
07/20/2022	17	7-8	RTD	3	Software Defect	196	Local
07/20/2022	17	9	RTD	3	Software Defect	203	Local
07/20/2022	20	1-2	RTD	5	Software Defect	1643	Local
07/20/2022	20	3	RTD	5	Software Defect	1654	Local
07/20/2022	20	4	RTD	5	Software Defect	1641	Local
07/20/2022	20	5-6	RTD	5	Software Defect	1642	Local
07/20/2022	22	1-12	RTD	2	Data Input Error	4	Local
07/20/2022	23	3,7-12	RTD	2	Data Input Error	4	Local
07/20/2022	6	2-12	RTD	2	Data Input Error	4	Local

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07/20/2022	7	2-6	RTD	2	Data Input Error	4	Local
07/20/2022	15	4	RTPD	1	Data Input Error	576	Local
07/20/2022	17	4	RTPD	3	Software Defect	197	Local
07/20/2022	20	1-2	RTPD	5	Software Defect	1645	Local
07/20/2022	22	1-4	RTPD	2	Data Input Error	4	Local
07/20/2022	23	1,4	RTPD	2	Data Input Error	4	Local
07/20/2022	6,24	4	RTPD	2	Data Input Error	4	Local
07/21/2022	16	1-3,5-7,9-12	RTD	2	Data Input Error	4	Local
07/21/2022	17-18	1-12	RTD	2	Data Input Error	4	Local
07/21/2022	19	3-12	RTD	2	Data Input Error	4	Local
07/21/2022	20	2-12	RTD	2	Data Input Error	4	Local
07/21/2022	21	2-7,9-11	RTD	2	Data Input Error	4	Local
07/21/2022	22	1	RTD	3	Software Defect	476	Local
07/21/2022	22	1-11	RTD	2	Data Input Error	4	Local
07/21/2022	22	2	RTD	3	Software Defect	477	Local
07/21/2022	16	2	RTPD	2	Data Input Error	4	Local
07/21/2022	16	4	RTPD	3	Software Defect	199	Local
07/21/2022	17	1-2	RTPD	3	Software Defect	194	Local
07/21/2022	17	3-4	RTPD	3	Software Defect	195	Local
07/21/2022	17-22	1-4	RTPD	2	Data Input Error	4	Local
07/21/2022	18	1	RTPD	3	Software Defect	194	Local
07/21/2022	18	3	RTPD	3	Software Defect	196	Local
07/21/2022	18-19	2	RTPD	3	Software Defect	195	Local
07/21/2022	18-19	4	RTPD	3	Software Defect	197	Local
07/21/2022	19	1,3	RTPD	3	Software Defect	196	Local
07/21/2022	20	1	RTPD	3	Software Defect	510	Local
07/21/2022	20	2	RTPD	3	Software Defect	803	Local
07/21/2022	20	3	RTPD	3	Software Defect	802	Local
07/21/2022	20	4	RTPD	3	Software Defect	196	Local
07/21/2022	21	1-2	RTPD	3	Software Defect	801	Local
07/21/2022	21	3	RTPD	3	Software Defect	494	Local
07/21/2022	21	4	RTPD	3	Software Defect	342	Local
07/21/2022	22	1-2	RTPD	3	Software Defect	469	Local
07/21/2022	22	3	RTPD	3	Software Defect	466	Local
07/21/2022	23	1-3	RTPD	2	Data Input Error	4	Local
07/22/2022	15	8	RTD	3	Software Defect	196	Local
07/22/2022	15	9	RTD	3	Software Defect	207	Local
07/22/2022	17	1-2	RTD	1	Data Input Error	573	Local
07/22/2022	17	3	RTD	1	Data Input Error	579	Local
07/22/2022	19	3	RTD	3	Software Defect	195	Local
07/22/2022	19	6-12	RTD	2	Data Input Error	4	Local
07/22/2022	20	1-5	RTD	2	Data Input Error	4	Local
07/22/2022	21	8-11	RTD	2	Data Input Error	4	Local
07/22/2022	22	1-12	RTD	2	Data Input Error	4	Local
07/22/2022	23	1-8	RTD	2	Data Input Error	4	Local
07/22/2022	24	10-12	RTD	2	Data Input Error	4	Local
07/22/2022	15	1	RTPD	3	Software Defect	256	Local
07/22/2022	15	4	RTPD	3	Software Defect	197	Local
07/22/2022	15,18	2	RTPD	3	Software Defect	196	Local
07/22/2022	16	1-4	RTPD	3	Software Defect	197	Local
07/22/2022	17	1	RTPD	1,3	Software Defect	726	Local
07/22/2022	17	2	RTPD	3	Software Defect	194	Local
07/22/2022	17	3	RTPD	3	Software Defect	195	Local
07/22/2022	18	3	RTPD	3	Software Defect	200	Local
07/22/2022	18	4	RTPD	3	Software Defect	201	Local
07/22/2022	18-19	1	RTPD	3	Software Defect	194	Local
07/22/2022	19	2-4	RTPD	3	Software Defect	196	Local
07/22/2022	20	3	RTPD	3	Software Defect	341	Local
07/22/2022	20,22-23	1-4	RTPD	2	Data Input Error	4	Local

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07/22/2022	21	1	RTPD	3	Software Defect	646	Local
07/22/2022	21,24	1	RTPD	2	Data Input Error	4	Local
07/23/2022	1	1-6,8-12	RTD	2	Data Input Error	4	Local
07/23/2022	19	7-10	RTD	2	Data Input Error	4	Local
07/23/2022	2	1-10,12	RTD	2	Data Input Error	4	Local
07/23/2022	22	1-2	RTD	2	Data Input Error	4	Local
07/23/2022	8,21	10-12	RTD	2	Data Input Error	4	Local
07/23/2022	9	1,8-11	RTD	2	Data Input Error	4	Local
07/23/2022	1,18	3-4	RTPD	2	Data Input Error	4	Local
07/23/2022	10	2	RTPD	2	Data Input Error	4	Local
07/23/2022	2-3,19,22	1-4	RTPD	2	Data Input Error	4	Local
07/23/2022	7	3	RTPD	3	Software Defect	15718	Local
07/23/2022	9	3	RTPD	2	Data Input Error	4	Local
07/24/2022	11	1-7,9-12	RTD	2	Data Input Error	4	Local
07/24/2022	12,17	1-12	RTD	2	Data Input Error	4	Local
07/24/2022	13	1,3,6-7,9-10,12	RTD	2	Data Input Error	4	Local
07/24/2022	14	1,3-4	RTD	2	Data Input Error	4	Local
07/24/2022	16	12	RTD	2	Data Input Error	4	Local
07/24/2022	18	1-7,11-12	RTD	2	Data Input Error	4	Local
07/24/2022	19	1-2	RTD	2	Data Input Error	4	Local
07/24/2022	11,17	3-4	RTPD	2	Data Input Error	4	Local
07/24/2022	12-14,18	1-4	RTPD	2	Data Input Error	4	Local
07/24/2022	15	1	RTPD	2	Data Input Error	4	Local
07/24/2022	19	1-3	RTPD	2	Data Input Error	4	Local

Corrections made through interval replacement: 3

Date	HE	Intervals	Market	#	Reason	Affected Area
07/21/2022	23	7-9	RTD	4	Software Defect	System

Corrections made through market rerun: 0

Description of Issues:

1. Data Input Error:

- Invalid congestion on ATW_VEL 1 due to a data input error impacting load distribution factors.

Prices were corrected by selective recalculation

2. Data Input Error:

- Invalid prices due to a software modeling failure impacting the marginal cost of congestion of certain resources.

Prices were corrected by selective recalculation.

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3. Software Defect:

- Invalid shadow price due to a software defect impacting pricing formation.

Prices were corrected by selective recalculation.

4. Software Defect:

- Invalid prices due to a software defect impacting RTCD runs.

Prices were corrected by interval replacement.

5. Software Defect:

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

Prices were corrected by selective recalculation.

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 according to the rules in CAISO Tariff section 7.7.9 which states that administrative pricing applies to intervals where we have had a market disruption, and requires the prices to be set differently depending on the number of consecutive market disruptions.

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

Total number of filled price intervals: 18

Date	HE	Intervals	Market
07/20/2022	12	3	RTD
07/20/2022	12	4	RTD
07/20/2022	12	5	RTD
07/20/2022	12	6	RTD
07/20/2022	12	10	RTD
07/20/2022	12	11	RTD
07/20/2022	12	4	RTPD
07/21/2022	21	6	RTD
07/21/2022	21	7	RTD
07/21/2022	22	7	RTD
07/21/2022	22	8	RTD

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07/21/2022	22	9	RTD
07/21/2022	22	10	RTD
07/21/2022	22	11	RTD
07/21/2022	23	1	RTD
07/21/2022	23	8	RTD
07/21/2022	23	9	RTD
07/21/2022	23	2	RTPD

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

Disconnected Pnode Report

According to Congestion Revenue Rights BPM Section 15, when the IFM cannot identify an electrically connected PNODE within the fixed level of proximity, a post process will be performed to determine the next closest electrically connected PNode and replace the LMP of the disconnected PNode with this price. This price update will be done within the DAM price correction timeline.

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

Total number of hours with disconnected pnode price update: 0