

Price Correction Report

Week of August 28 – September 01, 2023

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, **202** intervals were corrected.

The trade dates covered by this report are:

DAM: 08/23/2023 – 08/29/2023

RTM: 08/21/2023 – 08/27/2023

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/SP-Tie for each corrected interval is listed left to the Affected Location field, for Energy and FRP respectively. In case of many intervals with the same correction reason, instead of providing the exact count of corrected Pnode/APnode/SP-Tie, the range of Pnode/APnode/SP-Tie affected is provided and listed in another table. Please note that there are only AS price corrections or only constraint shadow price correction for those intervals that have the Count of Corrected Pnode/APnode/SP-Tie columns missing.

Corrections made through selective recalculation: 201

Date	HE	Intervals	Mark et	#	Reason	Number of corrected Pnodes/APnodes/ SP-Ties for Energy	Number of corrected Pnodes/APnodes/ SP-Ties for Flex Ramp	Method	Affect ed Area
08/22/2023	13	11-12	RTD	6	Software Defect	610		Selective Recalc	Local
08/22/2023	19	5-6	RTD	1	Data Input Error	1493		Selective Recalc	Local
08/22/2023	21	3	RTPD	1	Data Input Error	1490		Selective Recalc	Local
08/23/2023	15	11	RTD	5	Software Defect	3973		Selective Recalc	Local
08/23/2023	15	7-10,12	RTD	5	Software Defect	3975		Selective Recalc	Local
08/23/2023	16	1-2	RTD	5	Software Defect	3975		Selective Recalc	Local
08/23/2023	16	3-12	RTD	5	Software Defect	3973		Selective Recalc	Local
08/23/2023	17	10-12	RTD	5	Software Defect	3974		Selective Recalc	Local
08/23/2023	17	1-9	RTD	5	Software Defect	3973		Selective Recalc	Local
08/23/2023	18	1-3,7-12	RTD	5	Software Defect	3974		Selective Recalc	Local
08/23/2023	18	4,6	RTD	5	Software Defect	3972		Selective Recalc	Local
08/23/2023	18	5	RTD	5	Software Defect	3970		Selective Recalc	Local
08/23/2023	19	1-3	RTD	5	Software Defect	3974		Selective Recalc	Local
08/23/2023	19	4-8,10-12	RTD	5	Software Defect	3972		Selective Recalc	Local
08/23/2023	19	9	RTD	5	Software Defect	3971		Selective Recalc	Local
08/23/2023	20	1-12	RTD	5	Software Defect	3972		Selective Recalc	Local
08/23/2023	21	1-7	RTD	5	Software Defect	3973		Selective Recalc	Local
08/23/2023	21	12	RTD	5	Software Defect	4225		Selective Recalc	Local
08/23/2023	21	8	RTD	5	Software Defect	3970		Selective Recalc	Local
08/23/2023	21	9-11	RTD	5	Software Defect	4227		Selective Recalc	Local
08/23/2023	22	1-2	RTD	5	Software Defect	4226		Selective Recalc	Local
08/23/2023	22	3	RTD	5	Software Defect	3650		Selective Recalc	Local
08/23/2023	22	4	RTD	5	Software Defect	3648		Selective Recalc	Local
08/23/2023	22	5-7,10-11	RTD	5	Software Defect	3266		Selective Recalc	Local
08/23/2023	22	8	RTD	5	Software Defect	3227		Selective Recalc	Local
08/23/2023	22	9,12	RTD	5	Software Defect	3228		Selective Recalc	Local
08/23/2023	23	1,10,12	RTD	5	Software Defect	4225		Selective Recalc	Local
08/23/2023	23	11	RTD	5	Software Defect	523		Selective Recalc	Local
08/23/2023	23	2	RTD	5	Software Defect	4224		Selective Recalc	Local
08/23/2023	23	3-9	RTD	5	Software Defect	4227		Selective Recalc	Local
08/23/2023	24	1-2	RTD	5	Software Defect	3234		Selective Recalc	Local
08/23/2023	24	10-11	RTD	5	Software Defect	740		Selective Recalc	Local
08/23/2023	24	12	RTD	5	Software Defect	738		Selective Recalc	Local
08/23/2023	24	3-4,9	RTD	5	Software Defect	3236		Selective Recalc	Local
08/23/2023	24	5-8	RTD	5	Software Defect	3268		Selective Recalc	Local

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08/23/2023	10	3	RTPD	6	Software Defect	617		Selective Recalc	Local
08/24/2023	1	1-6	RTD	5	Software Defect	4225		Selective Recalc	Local
08/24/2023	1	7-8	RTD	5	Software Defect	4224		Selective Recalc	Local
08/24/2023	19	10,12	RTD	6	Software Defect	692		Selective Recalc	Local
08/24/2023	19	11	RTD	6	Software Defect	698		Selective Recalc	Local
08/24/2023	19	7-9	RTD	6	Software Defect	710		Selective Recalc	Local
08/24/2023	20	1-5,8-9,12	RTD	6	Software Defect	698		Selective Recalc	Local
08/24/2023	20	10	RTD	6	Software Defect	639		Selective Recalc	Local
08/24/2023	20	6,11	RTD	6	Software Defect	633		Selective Recalc	Local
08/24/2023	21	3	RTD	6	Software Defect	621		Selective Recalc	Local
08/24/2023	22	10-12	RTD	6	Software Defect	698		Selective Recalc	Local
08/24/2023	16	3	RTPD	4	Software Defect	754		Selective Recalc	Local
08/24/2023	19	1	RTPD	6	Software Defect	719		Selective Recalc	Local
08/24/2023	19	2	RTPD	6	Software Defect	633		Selective Recalc	Local
08/24/2023	19	4	RTPD	6	Software Defect	710		Selective Recalc	Local
08/24/2023	20	1-2,4	RTPD	6	Software Defect	698		Selective Recalc	Local
08/24/2023	20	3	RTPD	6	Software Defect	630		Selective Recalc	Local
08/26/2023	16	10-12	RTD	2	Data Input Error	1481		Selective Recalc	Local
08/26/2023	18	1,4	RTD	2	Data Input Error	1461		Selective Recalc	Local
08/26/2023	18	3-4	RTPD	2	Data Input Error	1461		Selective Recalc	Local
08/27/2023	18	1-4,6,8	RTD	2	Data Input Error	1461		Selective Recalc	Local
08/27/2023	18	5	RTD	2	Data Input Error	1481		Selective Recalc	Local
08/27/2023	19	1-3	RTD	2	Data Input Error	2723		Selective Recalc	Local
08/27/2023	19	10-12	RTD	2	Data Input Error	2249		Selective Recalc	Local
08/27/2023	19	4-6	RTD	2	Data Input Error	2585		Selective Recalc	Local
08/27/2023	19	7-9	RTD	2	Data Input Error	2347		Selective Recalc	Local
08/27/2023	20	1-3	RTD	2	Data Input Error	2339		Selective Recalc	Local
08/27/2023	20	4-6	RTD	2	Data Input Error	2328		Selective Recalc	Local
08/27/2023	18	2	RTPD	2	Data Input Error	1461		Selective Recalc	Local
08/27/2023	18	3	RTPD	2	Data Input Error	1481		Selective Recalc	Local
08/27/2023	18	4	RTPD	2	Data Input Error	2716		Selective Recalc	Local
08/27/2023	19	1	RTPD	2	Data Input Error	2738		Selective Recalc	Local
08/27/2023	19	2	RTPD	2	Data Input Error	2570		Selective Recalc	Local
08/27/2023	19	3	RTPD	2	Data Input Error	2363		Selective Recalc	Local
08/27/2023	19	4	RTPD	2	Data Input Error	2253		Selective Recalc	Local
08/27/2023	20	1,3	RTPD	2	Data Input Error	2328		Selective Recalc	Local
08/27/2023	20	2	RTPD	2	Data Input Error	2253		Selective Recalc	Local
08/27/2023	21	2	RTPD	2	Data Input Error	2074		Selective Recalc	Local
08/27/2023	22	1	RTPD	2	Data Input Error	2118		Selective Recalc	Local

Corrections made through interval replacement: 1

Date	HE	Intervals	Market	#	Reason	Affected Area
08/23/2023	18	2	RTPD	3	Software Defect	System

Corrections made through market rerun: 0

Description of Issues:

1. Data Input Error:

Invalid congestion on 64228_SUMMIT 1_115_32218_DRUM
_115_BR_1_1 due to a data input error related to flowgate enforcement
under contingency.

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Prices were corrected by selective recalculation.

2. Data Input Error:

Invalid congestion on NTR-DRM_1 120 due to a data input error impacting flowgate enforcements.

Prices were corrected by selective recalculation.

3. Software Defect:

Invalid market run due to a software issue related to market requirements.

Prices were corrected by interval replacement.

4. Software Defect:

Invalid pricing due to software defect impacting resource dispatch.

Prices were corrected by selective recalculation.

5. Software Defect:

Invalid rate of change constraint prices and EIM-related prices due to a software issue.

Prices were corrected by selective recalculation.

6. Software Defect:

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

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

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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 for energy, AS and GHG: 9

Date	HE	Intervals	Market
08/23/2023	16	11	RTD
08/23/2023	16	12	RTD
08/23/2023	17	1	RTD
08/23/2023	17	2	RTD
08/23/2023	17	3	RTD
08/23/2023	18	10	RTD
08/23/2023	17	3	RTPD
08/23/2023	17	4	RTPD
08/24/2023	18	2	RTD

Total number of filled price intervals for FRP: 9

Date	HE	Intervals	Market
08/23/2023	16	11	RTD
08/23/2023	16	12	RTD
08/23/2023	17	1	RTD
08/23/2023	17	2	RTD
08/23/2023	17	3	RTD
08/23/2023	18	10	RTD
08/23/2023	17	3	RTPD
08/23/2023	17	4	RTPD
08/24/2023	18	2	RTD

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

Total number of filled intervals due to WEIM BAA market separation: 44

Date	HE	Intervals	Market	Separated WEIM BAA
8/23/2023	17	1-4	RTPD	BPAT
8/23/2023	18	1-2	RTPD	BPAT
8/23/2023	17	1-12	RTD	BPAT
8/23/2023	18	1-4	RTD	BPAT
8/27/2023	18	3-4	RTPD	BPAT
8/27/2026	19	1	RTPD	BPAT
8/27/2023	18	3-12	RTD	BPAT
8/27/2026	19	1-7	RTD	BPAT

Disconnected Pnode Report

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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