

Price Correction Report

Week of July 27 – 31, 2020

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, **191** intervals were corrected.

The trade dates covered by this report are:

DAM: 7/22/2020 – 7/28/2020

RTM: 7/20/2020 – 7/26/2020

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.

Price Correction Report

Week of July 27 – 31, 2020

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. 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: 191

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
07/20/2020	13	12	RTD	1,2	Data Input Error	1348	Local
07/20/2020	13	2-3,6-7	RTD	2	Data Input Error	1341	Local
07/20/2020	13	4-5	RTD	2	Data Input Error	1375	Local
07/20/2020	13	8-9	RTD	1,2	Data Input Error	1341	Local
07/20/2020	13-14	10-11	RTD	1,2	Data Input Error	1342	Local
07/20/2020	14	1-3	RTD	1	Data Input Error	1401	Local
07/20/2020	14	12	RTD	1,2	Data Input Error	1343	Local
07/20/2020	14	4-6	RTD	1	Data Input Error	1402	Local
07/20/2020	14	7-8	RTD	1,2	Data Input Error	1406	Local
07/20/2020	14	9	RTD	1	Data Input Error	1406	Local
07/20/2020	15	1,11	RTD	1,2	Data Input Error	1407	Local
07/20/2020	15	2,4-10	RTD	1,2	Data Input Error	1406	Local
07/20/2020	15	3	RTD	1	Data Input Error	1406	Local
07/20/2020	15-16	12	RTD	1,2	Data Input Error	1408	Local
07/20/2020	16	1	RTD	1	Data Input Error	1404	Local
07/20/2020	16	10-11	RTD	1,2	Data Input Error	1402	Local
07/20/2020	16	2	RTD	1	Data Input Error	1403	Local
07/20/2020	16	3-6	RTD	1	Data Input Error	1402	Local
07/20/2020	16	7-8	RTD	1,2	Data Input Error	1401	Local
07/20/2020	16	9	RTD	1,2	Data Input Error	1437	Local
07/20/2020	17	1	RTD	1	Data Input Error	1398	Local
07/20/2020	17	12	RTD	1,2	Data Input Error	1397	Local
07/20/2020	17	2	RTD	1	Data Input Error	1397	Local
07/20/2020	17	3	RTD	1	Data Input Error	1396	Local
07/20/2020	17	4-6	RTD	1	Data Input Error	1394	Local
07/20/2020	17	7-8,10	RTD	1,2	Data Input Error	1394	Local
07/20/2020	17	9,11	RTD	1,2	Data Input Error	1395	Local
07/20/2020	18	1,3-4	RTD	1	Data Input Error	1389	Local
07/20/2020	18	12	RTD	1	Data Input Error	1413	Local
07/20/2020	18	2	RTD	1	Data Input Error	1388	Local
07/20/2020	18	5	RTD	1	Data Input Error	1390	Local
07/20/2020	18	6	RTD	1	Data Input Error	1411	Local
07/20/2020	18	7-8	RTD	1	Data Input Error	1396	Local
07/20/2020	18	9-11	RTD	1	Data Input Error	1397	Local
07/20/2020	19	12	RTD	1	Data Input Error	1409	Local
07/20/2020	19	3	RTD	1	Data Input Error	1395	Local
07/20/2020	19	4	RTD	1	Data Input Error	1394	Local

Price Correction Report

Week of July 27 – 31, 2020

07/20/2020	19	5	RTD	1	Data Input Error	1396	Local
07/20/2020	19	7,11	RTD	1	Data Input Error	1398	Local
07/20/2020	19	8,10	RTD	1	Data Input Error	1397	Local
07/20/2020	19	9	RTD	1	Data Input Error	1402	Local
07/20/2020	20	10-11	RTD	1	Data Input Error	1398	Local
07/20/2020	20	12	RTD	1	Data Input Error	1406	Local
07/20/2020	13	2	RTPD	2	Data Input Error	1341	Local
07/20/2020	13	3-4	RTPD	2	Data Input Error	1376	Local
07/20/2020	14	1,4	RTPD	1	Data Input Error	1440	Local
07/20/2020	14	2-3	RTPD	1	Data Input Error	1436	Local
07/20/2020	15	1	RTPD	1,2	Data Input Error	1406	Local
07/20/2020	15	2	RTPD	1	Data Input Error	1443	Local
07/20/2020	15	3	RTPD	1	Data Input Error	1440	Local
07/20/2020	15	4	RTPD	1,2	Data Input Error	1441	Local
07/20/2020	16	1-2	RTPD	1	Data Input Error	1436	Local
07/20/2020	16	3	RTPD	1	Data Input Error	1437	Local
07/20/2020	16	4	RTPD	1,2	Data Input Error	1438	Local
07/20/2020	17	1	RTPD	1	Data Input Error	1398	Local
07/20/2020	17	2-3	RTPD	1	Data Input Error	1396	Local
07/20/2020	17	4	RTPD	1,2	Data Input Error	1397	Local
07/20/2020	18	1-3	RTPD	1	Data Input Error	1390	Local
07/20/2020	18	4	RTPD	1	Data Input Error	1397	Local
07/20/2020	19	1	RTPD	1	Data Input Error	1394	Local
07/20/2020	19	2	RTPD	1	Data Input Error	1395	Local
07/20/2020	19	4	RTPD	1	Data Input Error	1398	Local
07/21/2020	13	10	RTD	1	Data Input Error	1255	Local
07/21/2020	13	11	RTD	1	Data Input Error	1259	Local
07/21/2020	13	12	RTD	1	Data Input Error	1273	Local
07/21/2020	13	4-5	RTD	1	Data Input Error	1247	Local
07/21/2020	13	6,9	RTD	1	Data Input Error	1250	Local
07/21/2020	13	7-8	RTD	1	Data Input Error	1249	Local
07/21/2020	14	1-2	RTD	1	Data Input Error	1403	Local
07/21/2020	14	12	RTD	1	Data Input Error	1276	Local
07/21/2020	14	3	RTD	1	Data Input Error	1404	Local
07/21/2020	14	4	RTD	1	Data Input Error	1260	Local
07/21/2020	14	5-6,10-11	RTD	1	Data Input Error	1406	Local
07/21/2020	14	7	RTD	1	Data Input Error	1413	Local
07/21/2020	14	8	RTD	1	Data Input Error	1411	Local
07/21/2020	14	9	RTD	1	Data Input Error	1259	Local
07/21/2020	15	1-3,9	RTD	1	Data Input Error	1408	Local
07/21/2020	15	10-12	RTD	1	Data Input Error	1400	Local
07/21/2020	15	4	RTD	1	Data Input Error	1406	Local
07/21/2020	15	5-6	RTD	1	Data Input Error	1407	Local
07/21/2020	15	7	RTD	1	Data Input Error	1440	Local
07/21/2020	15	8	RTD	1	Data Input Error	1405	Local
07/21/2020	16	1	RTD	1,2	Data Input Error	1401	Local
07/21/2020	16	10-11	RTD	1	Data Input Error	1338	Local
07/21/2020	16	12	RTD	1	Data Input Error	1357	Local
07/21/2020	16	2	RTD	1	Data Input Error	1400	Local
07/21/2020	16	3	RTD	1	Data Input Error	1952	Local
07/21/2020	16	4	RTD	1	Data Input Error	1275	Local
07/21/2020	16	5-7,9	RTD	1,2	Data Input Error	1400	Local
07/21/2020	16	8	RTD	1,2,5	Data Input Error, Software Defect	1400	Local
07/21/2020	17	1-3	RTD	1	Data Input Error	1254	Local
07/21/2020	17	10	RTD	2	Data Input Error	1400	Local
07/21/2020	17	11	RTD	2	Data Input Error	1399	Local
07/21/2020	17	4-5	RTD	1	Data Input Error	1307	Local

Price Correction Report

Week of July 27 – 31, 2020

07/21/2020	17	7	RTD	2	Data Input Error	1397	Local
07/21/2020	17	8,12	RTD	2	Data Input Error	1401	Local
07/21/2020	17	9	RTD	2	Data Input Error	1429	Local
07/21/2020	13	3	RTPD	1	Data Input Error	1250	Local
07/21/2020	13	4	RTPD	1	Data Input Error	1252	Local
07/21/2020	14	1	RTPD	1	Data Input Error	1400	Local
07/21/2020	14	2	RTPD	1	Data Input Error	1257	Local
07/21/2020	14	3	RTPD	1	Data Input Error	1406	Local
07/21/2020	14	4	RTPD	1	Data Input Error	1413	Local
07/21/2020	15	1-2	RTPD	1	Data Input Error	1408	Local
07/21/2020	15	3	RTPD	1	Data Input Error	1442	Local
07/21/2020	15	4	RTPD	1	Data Input Error	1400	Local
07/21/2020	16	1	RTPD	1,2	Data Input Error	1401	Local
07/21/2020	16	2-4	RTPD	1,2	Data Input Error	1400	Local
07/21/2020	17	1	RTPD	1	Data Input Error	1337	Local
07/21/2020	17	2	RTPD	1	Data Input Error	1256	Local
07/21/2020	17	3	RTPD	1	Data Input Error	1305	Local
07/21/2020	17	4	RTPD	1	Data Input Error	1338	Local
07/22/2020	18	2	RTPD	3	Data Input Error	278	Local
07/24/2020	19	2	RTPD	3	Data Input Error	1155	Local
07/24/2020	19	3	RTPD	3	Data Input Error	292	Local
07/25/2020	16	10-11	RTD	4	Data Input Error	1356	Local
07/25/2020	16	12	RTD	4	Data Input Error	1357	Local
07/25/2020	16	4	RTPD	4,5	Data Input Error, Software Defect	1358	Local
07/25/2020	17	2	RTPD	5	Software Defect	836	Local

Corrections made through interval replacement: 0

Corrections made through market rerun: 0

Description of Issues:

1. Data Input Error:

- Invalid congestion on SUMMIT2-DRUM due to a data input error related to load distribution factors..

Prices were corrected by selective recalculation.

2. Data Input Error:

- Invalid congestion on EIM constraint due to a data input error related to load distribution factors.

Prices were corrected by selective recalculation.

Price Correction Report

Week of July 27 – 31, 2020

3. Data Input Error:

- Invalid congestion on 36851_NORTHERN_115_30732_NORTHERN_230_XF_1 due to incorrect enforcement of the constraint.

Prices were corrected by selective recalculation.

4. Data Input Error:

- Invalid congestion on NTR-DRM_1 120 due to a data input error related to load distribution factors.

Prices were corrected by selective recalculation.

5. Software Defect:

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

Prices were corrected through 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: 3

Date	HE	Intervals	Market
07/22/2020	15	7	RTD
07/22/2020	15	8	RTD
07/22/2020	16	1	RTPD

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

Price Correction Report

Week of July 27 – 31, 2020

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