

# Price Correction Report

## Week of June 29 – July 3, 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.
- Disconnected Pnode replacement – a listing of Trade Days with replaced IFM Pnodes by interval.

For the week covered by this report, **1321** intervals were corrected.

The trade dates covered by this report are:

DAM: 6/24/2020– 6/29/2020

RTM: 6/22/2020 – 6/25/2020

### ***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.

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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. 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: 1321

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
06/22/2020	1,11	1-6	RTD	1	Software Defect	5	Local
06/22/2020	12	4-6,10-12	RTD	1	Software Defect	5	Local
06/22/2020	13	1-4	RTD	1	Software Defect	5	Local
06/22/2020	13	12	RTD	1, 2	Software Defect, Data Input Error	1353	Local
06/22/2020	13	5	RTD	1, 2	Software Defect, Data Input Error	1361	Local
06/22/2020	13	6	RTD	1, 2	Software Defect, Data Input Error	1320	Local
06/22/2020	13	7-11	RTD	1, 2	Software Defect, Data Input Error	1349	Local
06/22/2020	15	1-3	RTD	1	Software Defect	5	Local
06/22/2020	15	7	RTD	1, 2	Software Defect, Data Input Error	1206	Local
06/22/2020	15	8	RTD	1, 2	Software Defect, Data Input Error	1207	Local
06/22/2020	15	9	RTD	1, 2	Software Defect, Data Input Error	1212	Local
06/22/2020	16	1,7-9	RTD	1	Software Defect	5	Local
06/22/2020	16	10-11	RTD	1, 2	Software Defect, Data Input Error	1264	Local
06/22/2020	16	12	RTD	1, 2	Software Defect, Data Input Error	1267	Local
06/22/2020	16	2	RTD	1, 2	Software Defect, Data Input Error	982	Local
06/22/2020	16	3-4	RTD	1, 2	Software Defect, Data Input Error	981	Local
06/22/2020	16	5	RTD	1, 2	Software Defect, Data Input Error	983	Local
06/22/2020	16	6	RTD	1, 2	Software Defect, Data Input Error	984	Local
06/22/2020	17	1,3	RTD	1, 2	Software Defect, Data Input Error	1030	Local
06/22/2020	17	2	RTD	1, 2	Software Defect, Data Input Error	1032	Local
06/22/2020	17	4-5	RTD	1, 2	Software Defect, Data Input Error	1027	Local

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06/22/2020	17	6	RTD	1, 2	Software Defect, Data Input Error	1031	Local
06/22/2020	17	7-12	RTD	1	Software Defect	5	Local
06/22/2020	18	1-3	RTD	1, 2	Software Defect, Data Input Error	1085	Local
06/22/2020	18	10-11	RTD	1, 2	Software Defect, Data Input Error	1072	Local
06/22/2020	18	4-5,12	RTD	1, 2	Software Defect, Data Input Error	1073	Local
06/22/2020	18	6	RTD	1, 2	Software Defect, Data Input Error	1075	Local
06/22/2020	18	7-9	RTD	1	Software Defect	5	Local
06/22/2020	2	1-6,9-12	RTD	1	Software Defect	5	Local
06/22/2020	3	1-10	RTD	1	Software Defect	5	Local
06/22/2020	4	7,10,12	RTD	1	Software Defect	5	Local
06/22/2020	5	11	RTD	1	Software Defect	5	Local
06/22/2020	6	1,7-12	RTD	1	Software Defect	5	Local
06/22/2020	7	1-5,8-12	RTD	1	Software Defect	5	Local
06/22/2020	8- 10,14,19- 24	1-12	RTD	1	Software Defect	5	Local
06/22/2020	1,11,13	1-3	RTPD	1	Software Defect	5	Local
06/22/2020	12,20,23	2-4	RTPD	1	Software Defect	5	Local
06/22/2020	13	4	RTPD	1, 2	Software Defect, Data Input Error	1319	Local
06/22/2020	15	4	RTPD	1, 2	Software Defect, Data Input Error	1210	Local
06/22/2020	16	1-3	RTPD	1, 2	Software Defect, Data Input Error	981	Local
06/22/2020	16	4	RTPD	1, 2	Software Defect, Data Input Error	1113	Local
06/22/2020	17	1	RTPD	1, 2	Software Defect, Data Input Error	1030	Local
06/22/2020	17	2	RTPD	1, 2	Software Defect, Data Input Error	1031	Local
06/22/2020	17	3	RTPD	1, 2	Software Defect, Data Input Error	1186	Local
06/22/2020	17	4	RTPD	1	Software Defect	5	Local
06/22/2020	18	2	RTPD	1, 2	Software Defect, Data Input Error	1074	Local
06/22/2020	18	3	RTPD	1, 2	Software Defect, Data Input Error	1078	Local
06/22/2020	18	4	RTPD	1, 2	Software Defect, Data Input Error	1077	Local
06/22/2020	19	1	RTPD	1, 2	Software Defect, Data Input Error	1072	Local
06/22/2020	19	2,4	RTPD	1	Software Defect	5	Local
06/22/2020	19	3	RTPD	1,6	Software Defect	637	Local
06/22/2020	2,15	1-2	RTPD	1	Software Defect	5	Local
06/22/2020	20	1	RTPD	1,5	Software Defect	381	Local
06/22/2020	3,8- 10,14,21- 22,24	1-4	RTPD	1	Software Defect	5	Local
06/22/2020	5,18	1	RTPD	1	Software Defect	5	Local
06/22/2020	6	3-4	RTPD	1	Software Defect	5	Local
06/22/2020	7	1-2,4	RTPD	1	Software Defect	5	Local
06/23/2020	1-5,8- 19,21-23	1-12	RTD	1	Software Defect	5	Local
06/23/2020	24	4-12	RTD	1	Software Defect	5	Local
06/23/2020	6,20	1-6,10-12	RTD	1	Software Defect	5	Local

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06/23/2020	7	1-3,7-12	RTD	1	Software Defect	5	Local
06/23/2020	1-17,21-23	1-4	RTPD	1	Software Defect	5	Local
06/23/2020	18	1	RTPD	1,3	Software Defect, Data Input Error	102	Local
06/23/2020	18	2	RTPD	1,3	Software Defect, Data Input Error	105	Local
06/23/2020	18	3	RTPD	1,3	Software Defect, Data Input Error	109	Local
06/23/2020	18	4	RTPD	1,3	Software Defect, Data Input Error	108	Local
06/23/2020	19	1	RTPD	1	Software Defect	5	Local
06/23/2020	19	2	RTPD	1,3	Software Defect, Data Input Error	75	Local
06/23/2020	19	3	RTPD	1,3	Software Defect, Data Input Error	77	Local
06/23/2020	19	4	RTPD	1,3	Software Defect, Data Input Error	76	Local
06/23/2020	20	1-3	RTPD	1	Software Defect	5	Local
06/23/2020	24	3-4	RTPD	1	Software Defect	5	Local
06/24/2020	1-5,13-15,18-24	1-12	RTD	1	Software Defect	5	Local
06/24/2020	10	1,4-12	RTD	1	Software Defect	5	Local
06/24/2020	11	2,6-12	RTD	1	Software Defect	5	Local
06/24/2020	12	3,7-11	RTD	1	Software Defect	5	Local
06/24/2020	17	7-12	RTD	1	Software Defect	5	Local
06/24/2020	6	8-10	RTD	1	Software Defect	5	Local
06/24/2020	7	4-12	RTD	1	Software Defect	5	Local
06/24/2020	8-9,16	1-3	RTD	1	Software Defect	5	Local
06/24/2020	1-5,11-15,19-22,24	1-4	RTPD	1	Software Defect	5	Local
06/24/2020	10,23	2-4	RTPD	1	Software Defect	5	Local
06/24/2020	16	1-2	RTPD	1	Software Defect	5	Local
06/24/2020	17	4	RTPD	1	Software Defect	5	Local
06/24/2020	18	1	RTPD	1,4	Software Defect	299	Local
06/24/2020	18	2	RTPD	1,4	Software Defect	348	Local
06/24/2020	18	3	RTPD	1,4	Software Defect	349	Local
06/24/2020	18	4	RTPD	1,4	Software Defect	356	Local
06/24/2020	6	1-3	RTPD	1	Software Defect	5	Local
06/24/2020	7	2-3	RTPD	1	Software Defect	5	Local
06/25/2020	1,15	4-12	RTD	1	Software Defect	5	Local
06/25/2020	2,6,8-14,16-17,19-22	1-12	RTD	1	Software Defect	5	Local
06/25/2020	23	1-10,12	RTD	1	Software Defect	5	Local
06/25/2020	24	1-8,10-12	RTD	1	Software Defect	5	Local
06/25/2020	3	1-5,7	RTD	1	Software Defect	5	Local
06/25/2020	4	1-9	RTD	1	Software Defect	5	Local
06/25/2020	5	7-12	RTD	1	Software Defect	5	Local
06/25/2020	7	1-3,6-12	RTD	1	Software Defect	5	Local
06/25/2020	1,8	3-4	RTPD	1	Software Defect	5	Local
06/25/2020	15	1,3-4	RTPD	1	Software Defect	5	Local
06/25/2020	18	2,4	RTPD	6	Software Defect	562	Local
06/25/2020	18	3	RTPD	6	Software Defect	574	Local
06/25/2020	19	1	RTPD	1,6	Software Defect	567	Local
06/25/2020	2,9-14,16-17,20-24	1-4	RTPD	1	Software Defect	5	Local
06/25/2020	3-4	1-2	RTPD	1	Software Defect	5	Local
06/25/2020	6,19	2-4	RTPD	1	Software Defect	5	Local
06/25/2020	7	1-2,4	RTPD	1	Software Defect	5	Local

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**Corrections made through interval replacement: 0**

**Corrections made through market rerun: 0**

### **Description of Issues:**

**1. Software Defect:**

- Invalid EIM price due to a software defect affecting price formation.

Prices were corrected by selective recalculation.

**2. Data Input Error:**

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

Prices were corrected by selective recalculation.

**3. Data Input Error:**

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

Prices were corrected by selective recalculation.

**4. Software Defect:**

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

Prices were corrected by selective recalculation.

**5. Software Defect:**

- Invalid shadow price on 32214\_RIO OSO \_115\_30330\_RIO OSO \_230\_XF\_1 due to a software defect impacting pricing formation.

Prices were corrected by selective recalculation.

**6. Software Defect:**

- Invalid shadow price on 32214\_RIO OSO \_115\_30330\_RIO OSO \_230\_XF\_2 due to a software defect impacting pricing formation.

Prices were corrected by selective recalculation.

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### 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: 0**

Date	HE	Intervals	Market
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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: 42**

Date	HE
6/27/2020	4-24
6/28/2020	1-21