Price Correction Report
Week of August 17 – 21, 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 occured 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, **146** intervals were corrected.

The trade dates covered by this report are:

DAM: 8/12/2020 – 8/18/2020
RTM: 8/10/2020 – 8/16/2020

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: 142

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
08/10/2020	16	4	RTPD	1	Data Input Error	1358	Local
08/10/2020	16	7	RTD	1	Data Input Error	1351	Local
08/10/2020	16	8	RTD	1	Data Input Error	1356	Local
08/10/2020	16	9	RTD	1	Data Input Error	1357	Local
08/10/2020	16	10	RTD	1	Data Input Error	1355	Local
08/10/2020	16	11	RTD	1	Data Input Error	1376	Local
08/10/2020	16	12	RTD	1	Data Input Error	1375	Local
08/10/2020	19	2	RTD	1	Data Input Error	1363	Local
08/10/2020	19	3	RTD	1	Data Input Error	1362	Local
08/10/2020	19	3	RTPD	1	Data Input Error	1360	Local
08/10/2020	19	4	RTPD	1	Data Input Error	1359	Local
08/10/2020	19	9	RTD	1	Data Input Error	1356	Local
08/10/2020	19	11	RTD	1	Data Input Error	1360	Local
08/10/2020	19	12	RTD	1	Data Input Error	1359	Local
08/10/2020	19	6,8,10	RTD	1	Data Input Error	1355	Local
08/10/2020	20	1	RTD	1	Data Input Error	1357	Local
08/10/2020	20	1	RTPD	1,10	Data Input Error,Software Defect	1420	Local
08/10/2020	20	2	RTPD	1	Data Input Error	1361	Local
08/10/2020	20	3	RTPD	1	Data Input Error	1457	Local
08/10/2020	20	4	RTD	1	Data Input Error	1352	Local
08/10/2020	20	4	RTPD	1	Data Input Error	1403	Local
08/10/2020	20	5	RTD	1	Data Input Error	1351	Local
08/10/2020	20	6	RTD	1	Data Input Error	1354	Local
08/10/2020	20	2-3	RTD	1	Data Input Error	1366	Local
08/10/2020	20	7-9	RTD	1	Data Input Error	1403	Local
08/12/2020	11	0	DA	8	Data Input Error	235	Local
08/12/2020	12	0	DA	8	Data Input Error	221	Local
08/12/2020	9-10	0	DA	8	Data Input Error	225	Local
08/12/2020	13,15	0	DA	8	Data Input Error	237	Local
08/12/2020	16,18	0	DA	8	Data Input Error	238	Local
08/14/2020	19	1-4,6	RTD	11	Software Defect		Local
08/14/2020	21	1	RTPD	10	Software Defect	269	Local
08/14/2020	21	2	RTPD	10	Software Defect	302	Local
08/15/2020	15	1	RTD	1,2	Data Input Error	975	Local
08/15/2020	15	1	RTPD	1,2	Data Input Error	1045	Local
08/15/2020	15	2	RTPD	1,2	Data Input Error	1011	Local
08/15/2020	15	2	RTD	1,2	Data Input Error	991	Local

08/15/2020	15	3	RTD	1	Data Input Error	992	Local
08/15/2020	15	3	RTPD	1,3,6,7	Data Input Error	1198	Local
08/15/2020	15	4	RTD	1	Data Input Error	985	Local
08/15/2020	15	5	RTD	1	Data Input Error	987	Local
08/15/2020	15	6	RTD	1	Data Input Error	993	Local
08/15/2020	16	1	RTD	1,2,3,4	Data Input Error	1105	Local
08/15/2020	16	1	RTPD	1,2,3,4	Data Input Error	1125	Local
08/15/2020	16	2	RTPD	1,2,3,4	Data Input Error	1100	Local
08/15/2020	16	2	RTD	1,2,3,4,9	Data Input Error	1109	Local
08/15/2020	16	3	RTD	1,2,3,4	Data Input Error	1131	Local
08/15/2020	16	3	RTPD	1,2,3,4,9	Data Input Error	1099	Local
08/15/2020	16	4	RTPD	2	Data Input Error	814	Local
08/15/2020	16	4	RTD	1,2,3,4	Data Input Error	1135	Local
08/15/2020	16	5	RTD	1,2,3,4,9	Data Input Error	1103	Local
08/15/2020	16	6	RTD	1,2,3,4,9	Data Input Error	1108	Local
08/15/2020	16	11	RTD	1	Data Input Error	1003	Local
08/15/2020	16	12	RTD	1	Data Input Error	983	Local
08/15/2020	16	7-8	RTD	1	Data Input Error	959	Local
08/15/2020	16	9-10	RTD	1	Data Input Error	946	Local
08/15/2020	17	1	RTD	1	Data Input Error	1057	Local
08/15/2020	17	1	RTPD	1,2,3,4	Data Input Error	988	Local
08/15/2020	17	2	RTPD	2,4	Data Input Error	883	Local
08/15/2020	17	2	RTD	1,2,3,4	Data Input Error	1014	Local
08/15/2020	17	3	RTD	1,2,3,4	Data Input Error	985	Local
08/15/2020	17	3	RTPD	1,2,3,4	Data Input Error	1003	Local
08/15/2020	17	4	RTPD	4	Data Input Error	844	Local
08/15/2020	17	5	RTD	1,2,3,4	Data Input Error	973	Local
08/15/2020	17	6	RTD	1,2,3,4	Data Input Error	1022	Local
08/15/2020	17	7	RTD	3	Data Input Error	830	Local
08/15/2020	17	8	RTD	3,4	Data Input Error	896	Local
08/15/2020	17	9	RTD	3,4	Data Input Error	914	Local
08/15/2020	17	10	RTD	1,2,4	Data Input Error	958	Local
08/15/2020	17	11	RTD	1,2,3,4	Data Input Error	976	Local
08/15/2020	17	4,12	RTD	1,2,3,4	Data Input Error	974	Local
08/15/2020	18	1	RTPD	1,3,6,7	Data Input Error	1192	Local
08/15/2020	18	1	RTD	1,3,4,9	Data Input Error	975	Local
08/15/2020	18	2	RTD	1,2,3,4	Data Input Error	981	Local
08/15/2020	18	2	RTPD	1,3,5,6,7	Data Input Error	1194	Local
08/15/2020	18	3	RTD	1,3,4,9	Data Input Error	981	Local
08/15/2020	18	3	RTPD	1,3,5,6,7	Data Input Error	1197	Local
08/15/2020	18	4	RTD	1,3,4,9	Data Input Error	1010	Local
08/15/2020	18	4	RTPD	10	Software Defect	662	Local
08/15/2020	18	5	RTD	1,2,3,4,9	Data Input Error	1009	Local
08/15/2020	18	6	RTD	1,2	Data Input Error	1013	Local
08/15/2020	18	9	RTD	1	Data Input Error	918	Local
08/15/2020	18	10	RTD	1	Data Input Error	912	Local
08/15/2020	19	1	RTPD	1,2,12	Data Input Error,Software Defect	1093	Local
08/15/2020	20	1	RTD	1	Data Input Error	967	Local
08/15/2020	20	2	RTD	1	Data Input Error	980	Local
08/15/2020	20	3	RTD	1	Data Input Error	947	Local
08/15/2020	20	3	RTPD	1	Data Input Error	944	Local
08/15/2020	20	6	RTD	1	Data Input Error	936	Local
08/15/2020	20	4-5	RTD	1	Data Input Error	932	Local
08/15/2020	21	1	RTPD	1	Data Input Error	1437	Local
08/15/2020	21	2	RTPD	1	Data Input Error	1397	Local
08/15/2020	21	3	RTPD	1	Data Input Error	1394	Local
08/15/2020	21	2-3,6	RTD	1	Data Input Error	965	Local
08/16/2020	15	1	RTPD	5,6,7	Data Input Error	231	Local
08/16/2020	16	1	RTD	1	Data Input Error	1049	Local

08/16/2020	16	1	RTPD	1	Data Input Error	1051	Local
08/16/2020	16	2	RTD	1	Data Input Error	1060	Local
08/16/2020	16	2	RTPD	1	Data Input Error	1045	Local
08/16/2020	16	3	RTPD	1	Data Input Error	1046	Local
08/16/2020	16	3	RTD	1	Data Input Error	1059	Local
08/16/2020	16	6	RTD	1	Data Input Error	1061	Local
08/16/2020	16	8	RTD	1	Data Input Error	1042	Local
08/16/2020	16	9	RTD	1	Data Input Error	12073	Local
08/16/2020	16	4-5	RTD	1	Data Input Error	1043	Local
08/16/2020	17	1	RTPD	1	Data Input Error	1092	Local
08/16/2020	17	1	RTD	1	Data Input Error	969	Local
08/16/2020	17	2	RTPD	1	Data Input Error	968	Local
08/16/2020	17	3	RTPD	1	Data Input Error	492	Local
08/16/2020	17	6	RTD	1	Data Input Error	975	Local
08/16/2020	17	2-3	RTD	1	Data Input Error	980	Local
08/16/2020	17	4-5	RTD	1	Data Input Error	968	Local
08/16/2020	18	1	RTD	2	Data Input Error	935	Local
08/16/2020	18	1	RTPD	2,13	Data Input Error,Software Defect	937	Local
08/16/2020	18	2	RTD	2	Data Input Error	954	Local
08/16/2020	18	2	RTPD	2,13	Data Input Error,Software Defect	938	Local
08/16/2020	18	3	RTD	2	Data Input Error	955	Local
08/16/2020	18	3	RTPD	2,13	Data Input Error,Software Defect	942	Local
08/16/2020	18	6	RTD	2	Data Input Error	949	Local
08/16/2020	18	4-5	RTD	2	Data Input Error	936	Local

Corrections made through interval replacement: 4

Date	HE	Intervals	Market	#	Reason	Affected Area
08/14/2020	15	12	RTD	14	Software Defect	System
08/14/2020	16	1-3	RTD	14	Software Defect	System

Corrections made through market rerun: 0

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Description of Issues:

1. **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.

2. **Data Input Error:**
   - Invalid congestion on 32214_RIO OSO _115_32244_BRNSWKT2_115_BR_2 _1 due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

3. **Data Input Error:**
   - Invalid congestion on 32218_DRUM   _115_32244_BRNSWKT2_115_BR_2 _1 constraint due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

4. **Data Input Error:**
   - Invalid congestion on 32228_PLACER _115_32238_BELL PGE_115_BR_1 _1 constraint due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

5. **Data Input Error:**
   - Invalid congestion on 24602_VICTOR _115_24601_VICTOR _230_XF_1A constraint due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

6. **Data Input Error:**
   - Invalid congestion on 24602_VICTOR _115_24601_VICTOR _230_XF_2A constraint due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

7. **Data Input Error:**
   - Invalid congestion on 24602_VICTOR _115_24601_VICTOR _230_XF_3A constraint due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

8. **Data Input Error:**
   - Invalid congestion on 18023_PAHRUMP _230_18910_INOVATIN_230_BR_1 _1 due to a data input error impacting the constraint limit.

Prices were corrected by selective recalculation.

9. **Data Input Error:**
   Invalid congestion on 32218_DRUM   _115_32220_DTCH FL1_115_BR_1 _1 constraint due to a data input error related to load distribution factors.

   Prices were corrected by selective recalculation.

10. **Software Defect:**
    - Invalid pricing on 32214_RIO OSO _115_30330_RIO OSO _230_XF_2 due to a software defect related to price calculation.

    Prices were corrected by selective recalculation.

11. **Software Defect:**
    - Invalid flex down shadow price due to a software defect impacting flex pricing.

    Prices were corrected by selective recalculation.

12. **Software Defect:**
    - Invalid pricing on 32214_RIO OSO _115_30330_RIO OSO _230_XF_1 due to a software defect related to price calculation.

    Prices were corrected by selective recalculation.

13. **Software Defect:**
    - Invalid shadow price due to a software defect impacting pricing formation.

    Prices were corrected by selective recalculation.

14. **Software Defect:**
    - Invalid prices due to a software defect impacting RTCD runs.

    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.

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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 consective market distrputions.

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
08/11/2020	24	11	RTD
08/11/2020	24	12	RTD
08/12/2020	1	1	RTD
08/12/2020	1	2	RTD
08/12/2020	1	1	RTPD
08/14/2020	1	7	RTD
08/14/2020	1	8	RTD
08/14/2020	1	9	RTD
08/14/2020	1	10	RTD
08/14/2020	1	11	RTD
08/14/2020	1	12	RTD
08/14/2020	2	1	RTD
08/14/2020	2	2	RTD
08/14/2020	2	3	RTD
08/14/2020	16	1	RTD
08/14/2020	16	2	RTD
08/14/2020	16	3	RTD
08/14/2020	2	1	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