

Price Correction Report

Week of October 9-13

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, **2687** intervals were corrected.

The trade dates covered by this report are:

DAM: 10/4/2017 – 10/10/2017

RTM: 10/2/2017 – 10/8/2017

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 for those intervals that have the Count of Corrected Pnode/Apnode column missing.

Corrections made through selective recalculation: 2685

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
02Oct2017	1	2	RTPD	2	Software Defect	26	Local
02Oct2017	9	3	RTPD	3	Data Input Error	246	Local
02Oct2017	9	4	RTPD	3	Data Input Error	245	Local
02Oct2017	9	8	RTD	3	Data Input Error	1594	Local
02Oct2017	9	9	RTD	3	Data Input Error	244	Local
02Oct2017	12	2	RTD	3	Data Input Error	360	Local
02Oct2017	12	3	RTD	3	Data Input Error	362	Local
02Oct2017	12	3	RTPD	3	Data Input Error	363	Local
02Oct2017	12	4	RTPD	3	Data Input Error	364	Local
02Oct2017	12	9	RTD	3	Data Input Error	815	Local
02Oct2017	12	10	RTD	3	Data Input Error	821	Local
02Oct2017	12	11	RTD	3	Data Input Error	1712	Local
02Oct2017	12	1,4-6	RTD	3	Data Input Error	363	Local
02Oct2017	13	2	RTD	3	Data Input Error	363	Local
02Oct2017	13	6	RTD	3	Data Input Error	365	Local
02Oct2017	13	9	RTD	3	Data Input Error	362	Local
02Oct2017	13	1-2	RTPD	3	Data Input Error	365	Local
02Oct2017	13	4-5	RTD	3	Data Input Error	365	Local
02Oct2017	13	1,3	RTD	3	Data Input Error	364	Local

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02Oct2017	14	2	RTPD	3	Data Input Error	423	Local
02Oct2017	14	3	RTPD	3	Data Input Error	364	Local
02Oct2017	14	12	RTD	3	Data Input Error	252	Local
02Oct2017	14	4-6	RTD	3	Data Input Error	422	Local
02Oct2017	14	7-9	RTD	3	Data Input Error	251	Local
02Oct2017	15	1	RTD	3	Data Input Error	242	Local
02Oct2017	15	2	RTPD	3	Data Input Error	250	Local
02Oct2017	15	4	RTD	3	Data Input Error	363	Local
02Oct2017	15	5	RTD	3	Data Input Error	422	Local
02Oct2017	15	6	RTD	3	Data Input Error	241	Local
02Oct2017	15	9	RTD	3	Data Input Error	242	Local
02Oct2017	15	2-3	RTD	3	Data Input Error	1598	Local
02Oct2017	15	7-8,10-12	RTD	3	Data Input Error	242	Local
02Oct2017	16	2	RTPD	3	Data Input Error	378	Local
02Oct2017	16	4	RTPD	3	Data Input Error	371	Local
02Oct2017	16	7	RTD	3	Data Input Error	370	Local
02Oct2017	16	2-3	RTD	3	Data Input Error	1590	Local
02Oct2017	16	8-9	RTD	3	Data Input Error	1717	Local
02Oct2017	16	11-12	RTD	3	Data Input Error	250	Local
02Oct2017	16	1,4-6	RTD	3	Data Input Error	242	Local
02Oct2017	17	1	RTPD	3	Data Input Error	241	Local
02Oct2017	17	2	RTPD	3	Data Input Error	242	Local
02Oct2017	22	12	RTD	5	Software Defect		Local
03Oct2017	1	2	RTPD	2	Software Defect	24	Local
03Oct2017	9	3	RTPD	3	Data Input Error	237	Local
03Oct2017	9	5-6	RTD	3	Data Input Error	238	Local
03Oct2017	10	1	RTPD	3	Data Input Error	597	Local
03Oct2017	10	2	RTPD	3	Data Input Error	596	Local
03Oct2017	10	3	RTPD	3	Data Input Error	236	Local
03Oct2017	10	4	RTPD	3	Data Input Error	243	Local

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03Oct2017	10	8	RTD	3	Data Input Error	1583	Local
03Oct2017	10	9	RTD	3	Data Input Error	1581	Local
03Oct2017	10	10	RTD	3	Data Input Error	245	Local
03Oct2017	10	2-3	RTD	3	Data Input Error	1941	Local
03Oct2017	10	6-7	RTD	3	Data Input Error	235	Local
03Oct2017	10	11-12	RTD	3	Data Input Error	1593	Local
03Oct2017	10	1,4-5	RTD	3	Data Input Error	595	Local
03Oct2017	11	3	RTPD	3	Data Input Error	245	Local
03Oct2017	11	1-2	RTPD	3	Data Input Error	244	Local
03Oct2017	11	1-4	RTD	3	Data Input Error	245	Local
03Oct2017	11	5-6	RTD	3	Data Input Error	1593	Local
03Oct2017	11	8-9	RTD	3	Data Input Error	1591	Local
03Oct2017	11	11-12	RTD	3	Data Input Error	1590	Local
03Oct2017	11	7,10	RTD	3	Data Input Error	243	Local
03Oct2017	12	1	RTD	3	Data Input Error	234	Local
03Oct2017	12	3	RTD	3	Data Input Error	1593	Local
03Oct2017	12	4	RTD	3	Data Input Error	235	Local
03Oct2017	12	12	RTD	3	Data Input Error	1584	Local
03Oct2017	12	3-4	RTPD	3	Data Input Error	245	Local
03Oct2017	12	5-6	RTD	3	Data Input Error	1583	Local
03Oct2017	12	8-9	RTD	3	Data Input Error	1210	Local
03Oct2017	12	2,11	RTD	3	Data Input Error	1594	Local
03Oct2017	12	7,10	RTD	3	Data Input Error	245	Local
03Oct2017	13	1	RTD	3	Data Input Error	245	Local
03Oct2017	13	1	RTPD	3	Data Input Error	245	Local
03Oct2017	13	2	RTPD	3	Data Input Error	244	Local
03Oct2017	13	3	RTPD	3	Data Input Error	239	Local
03Oct2017	13	4	RTD	3	Data Input Error	231	Local
03Oct2017	13	4	RTPD	3	Data Input Error	241	Local
03Oct2017	13	9	RTD	3	Data Input Error	625	Local

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03Oct2017	13	10	RTD	3	Data Input Error	229	Local
03Oct2017	13	11	RTD	3	Data Input Error	618	Local
03Oct2017	13	12	RTD	3	Data Input Error	3819	Local
03Oct2017	13	2-3	RTD	3	Data Input Error	1210	Local
03Oct2017	13	5-6	RTD	3	Data Input Error	1202	Local
03Oct2017	13	7-8	RTD	3	Data Input Error	236	Local
03Oct2017	14	4	RTPD	3	Data Input Error	3435	Local
03Oct2017	14	7	RTD	3	Data Input Error	232	Local
03Oct2017	14	8	RTD	3	Data Input Error	1197	Local
03Oct2017	14	9	RTD	3	Data Input Error	1570	Local
03Oct2017	14	10	RTD	3	Data Input Error	231	Local
03Oct2017	14	11	RTD	3	Data Input Error	620	Local
03Oct2017	14	12	RTD	3	Data Input Error	1580	Local
03Oct2017	15	1	RTPD	3	Data Input Error	1196	Local
03Oct2017	15	2	RTPD	3	Data Input Error	3821	Local
03Oct2017	15	3	RTPD	3	Data Input Error	232	Local
03Oct2017	15	4	RTD	3	Data Input Error	230	Local
03Oct2017	15	4	RTPD	3	Data Input Error	231	Local
03Oct2017	15	5-6,12	RTD	3	Data Input Error	2525	Local
03Oct2017	16	1	RTD	3	Data Input Error	227	Local
03Oct2017	16	1	RTPD	3	Data Input Error	230	Local
03Oct2017	16	2	RTD	3	Data Input Error	2906	Local
03Oct2017	16	2	RTPD	3	Data Input Error	229	Local
03Oct2017	16	3-4	RTPD	3	Data Input Error	227	Local
03Oct2017	16	5-6	RTD	3	Data Input Error	3815	Local
03Oct2017	16	11-12	RTD	3	Data Input Error	2523	Local
03Oct2017	16	4,10	RTD	3	Data Input Error	228	Local
03Oct2017	17	2	RTD	3	Data Input Error	2905	Local
03Oct2017	17	3	RTPD	3	Data Input Error	306	Local
03Oct2017	18	1	RTPD	3	Data Input Error	3930	Local

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04Oct2017	1	2	RTPD	2	Software Defect	24	Local
04Oct2017	22	12	RTD	5	Software Defect		Local
05Oct2017	1	2	RTPD	2	Software Defect	24	Local
05Oct2017	4	9	RTD	6	Software Defect	442	Local
06Oct2017	1	2	RTPD	2	Software Defect	25	Local
06Oct2017	9	1	DA	7	Data Input Error		Local
06Oct2017	9	4	RTPD	7	Data Input Error		Local
07Oct2017	1	2	RTPD	2	Software Defect	25	Local
07Oct2017	9	1	DA	7	Data Input Error		Local
07Oct2017	9	1-4	RTPD	7	Data Input Error		Local
08Oct2017	1	2	RTPD	2	Software Defect	24	Local
08Oct2017	9	1-4	RTPD	7	Data Input Error		Local
08Oct2017	20	7	RTD	4	Data Input Error	1403	Local

The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 5-46

Date	HE	Intervals	Market	#	Reason	Affected Area
02Oct2017	9	1-7,10-12	RTD	1	Software Defect	Local
02Oct2017	12	7-8,12	RTD	1	Software Defect	Local
02Oct2017	13	7-8,10-12	RTD	1	Software Defect	Local
02Oct2017	14	1,4	RTPD	1	Software Defect	Local
02Oct2017	14	1-3,10-11	RTD	1	Software Defect	Local
02Oct2017	15	1,3-4	RTPD	1	Software Defect	Local
02Oct2017	16	1,3	RTPD	1	Software Defect	Local
02Oct2017	16	10	RTD	1	Software Defect	Local
02Oct2017	22	1-3	RTPD	1	Software Defect	Local
02Oct2017	22	4	RTPD	1	Data Input Error	Local
02Oct2017	13,17	3-4	RTPD	1	Software Defect	Local
02Oct2017	1-8,10-11,17-24	1-12	RTD	1	Software Defect	Local
02Oct2017	1-8,10-11,18-21,23-24	1-4	RTPD	1	Software Defect	Local
02Oct2017	9,12	1-2	RTPD	1	Software Defect	Local
03Oct2017	9	1-4,7-12	RTD	1	Data Input Error	Local
03Oct2017	11	4	RTPD	1	Data Input Error	Local
03Oct2017	12	1-2	RTPD	1	Data Input Error	Local
03Oct2017	14	1-3	RTPD	1	Data Input Error	Local
03Oct2017	14	1-6	RTD	1	Data Input Error	Local
03Oct2017	15	1-3,7-11	RTD	1	Data Input Error	Local
03Oct2017	16	3,7-9	RTD	1	Data Input Error	Local
03Oct2017	17	1,3-12	RTD	1	Data Input Error	Local
03Oct2017	18	2-4	RTPD	1	Data Input Error	Local
03Oct2017	1-8,18-24	1-12	RTD	1	Data Input Error	Local
03Oct2017	1-8,19-24	1-4	RTPD	1	Data Input Error	Local
03Oct2017	9,17	1-2,4	RTPD	1	Data Input Error	Local
04Oct2017	1-24	1-12	RTD	1	Software Defect	Local
04Oct2017	1-24	1-4	RTPD	1	Software Defect	Local
05Oct2017	4	1-8,10-12	RTD	1	Software Defect	Local

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05Oct2017	1-24	1-4	RTPD	1	Software Defect	Local
05Oct2017	1-3,5-24	1-12	RTD	1	Software Defect	Local
06Oct2017	9	1-3	RTPD	1	Software Defect	Local
06Oct2017	9	4	RTPD	1	Data Input Error	Local
06Oct2017	24	1,3-4	RTPD	1	Software Defect	Local
06Oct2017	1-24	1-12	RTD	1	Software Defect	Local
06Oct2017	1-8,10-23	1-4	RTPD	1	Software Defect	Local
07Oct2017	1	2-4	RTPD	1	Software Defect	Local
07Oct2017	9	1-4	RTPD	1	Data Input Error	Local
07Oct2017	1-24	1-12	RTD	1	Software Defect	Local
07Oct2017	2-8,10-24	1-4	RTPD	1	Software Defect	Local
08Oct2017	1	1,3-4	RTPD	1	Data Input Error	Local
08Oct2017	1	2	RTPD	1	Software Defect	Local
08Oct2017	9	1-11	RTD	1	Data Input Error	Local
08Oct2017	10	1-9,11	RTD	1	Data Input Error	Local
08Oct2017	20	1-6,8-12	RTD	1	Data Input Error	Local
08Oct2017	2-24	1-4	RTPD	1	Data Input Error	Local
08Oct2017	1-8,11-19,21-24	1-12	RTD	1	Data Input Error	Local

Corrections made through interval replacement: 2

Date	HE	Intervals	Market	#	Reason	Affected Area
6-Oct-17	24	2	RTPD	8	Software Defect	System
7-Oct-17	1	1	RTPD	8	Software Defect	System

Corrections made through market rerun: 0

Description of Issues:

1. Software Defect:

- Invalid prices due to a software defect impacting pricing node LMPs.

Prices were corrected by selective recalculation .

2. Software Defect:

- Missing DGAP and DGAP SP-Tie prices due to a software defect.

Prices were corrected by selective recalculation.

3. Data Input Error:

- Invalid congestion due to a data input error impacting outage modeling.

Prices were corrected by selective recalculation.

4. Data Input Error:

- Invalid EIM congestion due to a data input error impacting commodity requirements.

Prices were corrected by selective recalculation.

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5. Software Defect:

- Invalid flex up prices due to a software defect impacting resource dispatch.

Prices were corrected by selective recalculation.

6. Software Defect:

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

Prices were corrected by selective recalculation.

7. Data Input Error:

- Invalid regulation down price due to a data input error related to requirement setting.

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: 3

Date	HE	Interval	Market
3-Oct-17	8	9	RTD
4-Oct-17	16	8	RTD
5-Oct-17	12	7	RTD

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