Price Correction Report
Week of November 27 – December 1, 2017

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, **3768** intervals were corrected.

The trade dates covered by this report are:

DAM: 11/20/2017 – 11/28/2017
RTM: 11/16/2017 – 11/26/2017

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: 3768

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
16Nov2017	1	2	RTPD	2	Software Defect	27	Local
17Nov2017	1	2	RTPD	2	Software Defect	27	Local
18Nov2017	1	2	RTPD	2	Software Defect	26	Local
19Nov2017	18	2,4,6	RTD	3	Software Defect		Local
19Nov2017	1	2	RTPD	2	Software Defect	26	Local
19Nov2017	17	4	RTPD	3	Software Defect		Local
19Nov2017	18	1	RTPD	3	Software Defect		Local
20Nov2017	1	2	RTPD	2	Software Defect	27	Local
21Nov2017	13	10-12	RTD	4,1	Data Input Error, Software Defect	2716	Local
21Nov2017	14	1-2	RTD	4,1	Data Input Error, Software Defect	2717	Local
21Nov2017	1	2	RTPD	2	Software Defect	27	Local
22Nov2017	1	2	RTPD	2	Software Defect	26	Local
23Nov2017	1	2	RTPD	2	Software Defect	25	Local
24Nov2017	1	2	RTPD	2	Software Defect	25	Local
25Nov2017	1	2	RTPD	2	Software Defect	25	Local
26Nov2017	15	10-12	RTD	4,1	Data Input Error, Software Defect	3123	Local
26Nov2017	16	1,3-4,7-10,12	RTD	4,1	Data Input Error, Software Defect	3124	Local
26Nov2017	16	2,5-6,11	RTD	4,1	Data Input Error, Software Defect	865	Local
26Nov2017	17	12	RTD	4,1	Data Input Error, Software Defect	3123	Local
26Nov2017	17	1-3,11	RTD	4,1	Data Input Error, Software Defect	2212	Local
26Nov2017	17	4-5	RTD	4,1	Data Input Error, Software Defect	861	Local
26Nov2017	17	6	RTD	4,1	Data Input Error, Software Defect	863	Local
26Nov2017	17	7,10	RTD	4,1	Data Input Error, Software Defect	3122	Local
26Nov2017	17	8-9	RTD	4,1	Data Input Error, Software Defect	862	Local
26Nov2017	18	1-3	RTD	4	Data Input Error		Local
26Nov2017	18	1-3	RTD	4,1	Data Input Error, Software Defect	3122	Local
26Nov2017	18	4,7-10	RTD	4,1	Data Input Error, Software Defect	3124	Local
26Nov2017	18	5-6	RTD	4,1	Data Input Error, Software Defect	2611	Local
26Nov2017	1	2	RTPD	2	Software Defect	24	Local
26Nov2017	16	2	RTPD	4,1	Data Input Error, Software Defect	872	Local
26Nov2017	16	3	RTPD	4,1	Data Input Error, Software Defect	865	Local
26Nov2017	16	4	RTPD	4,1	Data Input Error, Software Defect	871	Local
26Nov2017	17	1-3	RTPD	4,1	Data Input Error, Software Defect	863	Local
26Nov2017	17	2-4	RTPD	4	Data Input Error		Local
26Nov2017	17	4	RTPD	4,1	Data Input Error, Software Defect	864	Local
26Nov2017	18	1	RTPD	4,1	Data Input Error, Software Defect	866	Local
26Nov2017	18	1-4	RTPD	4	Data Input Error		Local
26Nov2017	18	2-4	RTPD	4,1	Data Input Error, Software Defect	865	Local
26Nov2017	19	1	RTPD	4	Data Input Error		Local
26Nov2017	19	1-2	RTPD	4,1	Data Input Error, Software Defect	865	Local

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The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 1-45

Date	HE	Intervals	Market	#	Reason	Affected Area
16Nov2017	1	1-8,10-12	RTD	1	Software Defect	Local
16Nov2017	3	1-3,5,7-9	RTD	1	Software Defect	Local
16Nov2017	4	1-3,5	RTD	1	Software Defect	Local
16Nov2017	5	3-12	RTD	1	Software Defect	Local
16Nov2017	6	2-12	RTD	1	Software Defect	Local
16Nov2017	7	6-12	RTD	1	Software Defect	Local
16Nov2017	10	1,8	RTD	1	Software Defect	Local
16Nov2017	11	5-6,10-12	RTD	1	Software Defect	Local
16Nov2017	13	1-10	RTD	1	Software Defect	Local
16Nov2017	14	3-4,10,12	RTD	1	Software Defect	Local
16Nov2017	15	2,4-12	RTD	1	Software Defect	Local
16Nov2017	23	1-9	RTD	1	Software Defect	Local
16Nov2017	2,8-9,12,16-22	1-12	RTD	1	Software Defect	Local
16Nov2017	5	2-4	RTPD	1	Software Defect	Local
16Nov2017	11	1,3	RTPD	1	Software Defect	Local
16Nov2017	1-3,6-10,12-23	1-4	RTPD	1	Software Defect	Local
17Nov2017	7	10	RTD	1	Software Defect	Local
17Nov2017	8	1-10	RTD	1	Software Defect	Local
17Nov2017	9	3,10	RTD	1	Software Defect	Local
17Nov2017	16	1-9	RTD	1	Software Defect	Local
17Nov2017	17	6-12	RTD	1	Software Defect	Local
17Nov2017	20	11	RTD	1	Software Defect	Local
17Nov2017	10-15,18-19,21-24	1-12	RTD	1	Software Defect	Local
17Nov2017	7	4	RTPD	1	Software Defect	Local
17Nov2017	9	1-2,4	RTPD	1	Software Defect	Local
17Nov2017	17	1,3	RTPD	1	Software Defect	Local
17Nov2017	8,10-16,18-24	1-4	RTPD	1	Software Defect	Local
18Nov2017	7	1-6,9-12	RTD	1	Software Defect	Local
18Nov2017	8	8-11	RTD	1	Software Defect	Local
18Nov2017	9	3-12	RTD	1	Software Defect	Local
18Nov2017	16	1-3,7-8	RTD	1	Software Defect	Local
18Nov2017	21	7-12	RTD	1	Software Defect	Local
18Nov2017	1-6,10-15,22-24	1-12	RTD	1	Software Defect	Local
18Nov2017	9	1,3-4	RTPD	1	Software Defect	Local
18Nov2017	16	1-3	RTPD	1	Software Defect	Local
18Nov2017	19	3	RTPD	1	Software Defect	Local
18Nov2017	21	4	RTPD	1	Software Defect	Local
18Nov2017	1-6,10-15,22-24	1-4	RTPD	1	Software Defect	Local
19Nov2017	14	1-3,10-12	RTD	1	Software Defect	Local
19Nov2017	18	1,3,5,7-12	RTD	1	Software Defect	Local
19Nov2017	18	2,4,6	RTD	1	Software Defect	Local
19Nov2017	10,19	7-12	RTD	1	Software Defect	Local
19Nov2017	1-8,11-13,15-17,20-24	1-12	RTD	1	Software Defect	Local
19Nov2017	10	4	RTPD	1	Software Defect	Local
19Nov2017	14	1	RTPD	1	Software Defect	Local
19Nov2017	17	4	RTPD	1	Software Defect	Local
19Nov2017	18	1	RTPD	1	Software Defect	Local
19Nov2017	18	2-4	RTPD	1	Software Defect	Local
19Nov2017	19	3-4	RTPD	1	Software Defect	Local
19Nov2017	1-7,11-13,15-16,20-24	1-4	RTPD	1	Software Defect	Local
19Nov2017	8,17	1-3	RTPD	1	Software Defect	Local
20Nov2017	6	1-9	RTD	1	Software Defect	Local
20Nov2017	8	4-12	RTD	1	Software Defect	Local
20Nov2017	9	1-3,5-12	RTD	1	Software Defect	Local
20Nov2017	17	1-6,10-12	RTD	1	Software Defect	Local
20Nov2017	1-5,10-16,18-24	1-12	RTD	1	Software Defect	Local

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20Nov2017	6	1-3	RTPD	1	Software Defect	Local
20Nov2017	8	3-4	RTPD	1	Software Defect	Local
20Nov2017	1-5,9-24	1-4	RTPD	1	Software Defect	Local
21Nov2017	9	7-12	RTD	1	Software Defect	Local
21Nov2017	13	1-9	RTD	1	Software Defect	Local
21Nov2017	14	3-12	RTD	1	Software Defect	Local
21Nov2017	1-8,10-12,15-24	1-12	RTD	1	Software Defect	Local
21Nov2017	1-24	1-4	RTPD	1	Software Defect	Local
22Nov2017	7	1-3,7-12	RTD	1	Software Defect	Local
22Nov2017	15	1-2,4-12	RTD	1	Software Defect	Local
22Nov2017	1-6,8-14,16-24	1-12	RTD	1	Software Defect	Local
22Nov2017	7	1,4	RTPD	1	Software Defect	Local
22Nov2017	1-6,8-24	1-4	RTPD	1	Software Defect	Local
23Nov2017	9	1-6	RTD	1	Software Defect	Local
23Nov2017	10	10-12	RTD	1	Software Defect	Local
23Nov2017	1-8,11-24	1-12	RTD	1	Software Defect	Local
23Nov2017	9	1-2	RTPD	1	Software Defect	Local
23Nov2017	1-8,11-24	1-4	RTPD	1	Software Defect	Local
24Nov2017	8	1-3,10-12	RTD	1	Software Defect	Local
24Nov2017	9	1-6,9,12	RTD	1	Software Defect	Local
24Nov2017	10	9-12	RTD	1	Software Defect	Local
24Nov2017	12	1-6,9-12	RTD	1	Software Defect	Local
24Nov2017	1-7,11,13-24	1-12	RTD	1	Software Defect	Local
24Nov2017	8	1	RTPD	1	Software Defect	Local
24Nov2017	1-7,11,13-24	1-4	RTPD	1	Software Defect	Local
24Nov2017	9,12	1-3	RTPD	1	Software Defect	Local
25Nov2017	1-24	1-12	RTD	1	Software Defect	Local
25Nov2017	1-24	1-4	RTPD	1	Software Defect	Local
26Nov2017	9	1-6,8-12	RTD	1	Software Defect	Local
26Nov2017	15	1-9	RTD	1	Software Defect	Local
26Nov2017	18	11-12	RTD	1	Software Defect	Local
26Nov2017	1-8,10-14,19-24	1-12	RTD	1	Software Defect	Local
26Nov2017	16	1	RTPD	1	Software Defect	Local
26Nov2017	19	3-4	RTPD	1	Software Defect	Local
26Nov2017	1-15,20-24	1-4	RTPD	1	Software Defect	Local

Corrections made through interval replacement: 0

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.

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3. **Software Defect:**
    - Invalid prices due to a software defect related to EIM functionality.

    Prices were corrected by selective recalculation.

4. **Data Input Error:**
    - Invalid prices in EIM area due to a data input error affecting resource dispatch.

    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 consective market distrputions.

The number of prices which were adjusted by the fill process is as follows.

Total number of filled price intervals: 21

Date	HE	Interval	Market
16-Nov-17	1	1	RTD
16-Nov-17	1	1	RTPD
16-Nov-17	15	7	RTD
16-Nov-17	15	8	RTD
16-Nov-17	15	9	RTD
16-Nov-17	15	10	RTD
16-Nov-17	15	11	RTD
16-Nov-17	16	1	RTPD
16-Nov-17	16	2	RTPD
17-Nov-17	9	6	RTD
17-Nov-17	14	6	RTD
20-Nov-17	15	7	RTD
20-Nov-17	15	8	RTD
20-Nov-17	15	9	RTD
20-Nov-17	15	10	RTD
20-Nov-17	15	11	RTD
20-Nov-17	15	12	RTD
20-Nov-17	16	1	RTPD
20-Nov-17	16	2	RTPD
22-Nov-17	17	5	RTD
22-Nov-17	21	9	RTD

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