Price Correction Report
Week of October 1 – October 5, 2018

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, **2719** intervals were corrected.

The trade dates covered by this report are:

DAM: 9/26/2018 – 10/2/2018
RTM: 9/24/2018 – 9/30/2018

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: 2718

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
24Sep2018	6	1-12	RTD	3	Data Input Error	545	Local
24Sep2018	10	3-4,8	RTD	5	Software Defect	1372	Local
24Sep2018	10	5-7,9-10	RTD	5	Software Defect		Local
24Sep2018	10	1-2	RTPD	5	Software Defect		Local
25Sep2018	11	5-6	RTD	8,1	Software Defect, Data Input Error	441	Local
25Sep2018	11	7,9-12	RTD	8,1	Software Defect, Data Input Error	426	Local
25Sep2018	12	1-3	RTD	8,1	Software Defect, Data Input Error	430	Local
25Sep2018	12	4-6	RTD	8,1	Software Defect, Data Input Error	427	Local
25Sep2018	15	4	RTD	8,1	Software Defect, Data Input Error	423	Local
25Sep2018	15	1-3,5-12	RTD	8,1	Software Defect, Data Input Error	424	Local
25Sep2018	16	7	RTD	8,1	Software Defect, Data Input Error	398	Local
25Sep2018	16	8-9	RTD	8,1	Software Defect, Data Input Error	391	Local
25Sep2018	16	10-12	RTD	8,1	Software Defect, Data Input Error	421	Local
25Sep2018	11	4	RTPD	8,1	Software Defect, Data Input Error	426	Local
25Sep2018	12	1	RTPD	8,1	Software Defect, Data Input Error	442	Local
25Sep2018	12	2	RTPD	8,1	Software Defect, Data Input Error	431	Local
25Sep2018	13	1-2	RTPD	8,1	Software Defect, Data Input Error	427	Local
25Sep2018	15	3	RTPD	8,1	Software Defect, Data Input Error	427	Local
25Sep2018	15	1-2,4	RTPD	8,1	Software Defect, Data Input Error	424	Local
25Sep2018	16	3	RTPD	8,1	Software Defect, Data Input Error	397	Local
25Sep2018	16	4	RTPD	8,1	Software Defect, Data Input Error	398	Local
25Sep2018	19	1	RTPD	8,1	Software Defect, Data Input Error	124	Local
25Sep2018	19	2	RTPD	8,1	Software Defect, Data Input Error	129	Local
26Sep2018	1	0	DA	4	Software Defect	179	Local
26Sep2018	5	0	DA	4	Software Defect	114	Local
26Sep2018	7	0	DA	4	Software Defect	216	Local
26Sep2018	8	0	DA	4	Software Defect	218	Local
26Sep2018	9	0	DA	4	Software Defect	221	Local
26Sep2018	10	0	DA	4	Software Defect	181	Local
26Sep2018	11	0	DA	4	Software Defect	193	Local
26Sep2018	12	0	DA	4	Software Defect	231	Local
26Sep2018	13	0	DA	4	Software Defect	238	Local
26Sep2018	14	0	DA	4	Software Defect	254	Local
26Sep2018	15	0	DA	4	Software Defect	244	Local
26Sep2018	16	0	DA	4	Software Defect	246	Local
26Sep2018	17	0	DA	4	Software Defect	245	Local
26Sep2018	21	0	DA	4	Software Defect	213	Local
26Sep2018	22	0	DA	4	Software Defect	197	Local
26Sep2018	2-4	0	DA	4	Software Defect	103	Local
26Sep2018	18,20	0	DA	4	Software Defect	247	Local
26Sep2018	23-24	0	DA	4	Software Defect	78	Local

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26Sep2018	6,19	0	DA	4	Software Defect	122	Local
26Sep2018	8	1	RTPD	5	Software Defect	942	Local
27Sep2018	1	0	DA	4	Software Defect	99	Local
27Sep2018	12	0	DA	4	Software Defect	118	Local
27Sep2018	14	0	DA	4	Software Defect	121	Local
27Sep2018	16	0	DA	4	Software Defect	124	Local
27Sep2018	17	0	DA	4	Software Defect	138	Local
27Sep2018	18	0	DA	4	Software Defect	144	Local
27Sep2018	21	0	DA	4	Software Defect	115	Local
27Sep2018	22	0	DA	4	Software Defect	109	Local
27Sep2018	11,15	0	DA	4	Software Defect	123	Local
27Sep2018	13,19	0	DA	4	Software Defect	117	Local
27Sep2018	2-7,23-24	0	DA	4	Software Defect	74	Local
27Sep2018	8,10	0	DA	4	Software Defect	122	Local
27Sep2018	9,20	0	DA	4	Software Defect	120	Local
29Sep2018	24	1-12	RTD	5	Software Defect		Local
29Sep2018	24	3	RTPD	5	Software Defect		Local
29Sep2018	24	1-2,4	RTPD	5	Software Defect	1372	Local
30Sep2018	1	3	RTD	7,1	Software Defect	513	Local
01Oct2018	10	0	DA	6	Data Input Error	9350	Local
01Oct2018	11	0	DA	6	Data Input Error	9335	Local
01Oct2018	12	0	DA	6	Data Input Error	9293	Local
01Oct2018	13	0	DA	6	Data Input Error	9284	Local
01Oct2018	16	0	DA	6	Data Input Error	9269	Local
01Oct2018	17	0	DA	6	Data Input Error	10660	Local
01Oct2018	22	0	DA	6	Data Input Error	10425	Local
01Oct2018	14-15	0	DA	6	Data Input Error	9270	Local
01Oct2018	18-21	0	DA	6	Data Input Error	10413	Local

The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 5-50:

Date	HE	Intervals	Market	#	Reason	Affected Area
24Sep2018	8	10-12	RTD	1	Software Defect	Local
24Sep2018	9	3-12	RTD	1	Software Defect	Local
24Sep2018	16	1-10	RTD	1	Software Defect	Local
24Sep2018	21	1-3,7-12	RTD	1	Software Defect	Local
24Sep2018	1-7,10-15,17-20,22-24	1-12	RTD	1	Software Defect	Local
24Sep2018	1-7,10-16,18-24	1-4	RTPD	1	Software Defect	Local
24Sep2018	9,17	2-4	RTPD	1	Software Defect	Local
25Sep2018	11	1-4,8	RTD	1	Software Defect	Local
25Sep2018	12	7-12	RTD	1	Software Defect	Local
25Sep2018	16	1-6	RTD	1	Software Defect	Local
25Sep2018	18	1-5,7-12	RTD	1	Software Defect	Local
25Sep2018	20	4-12	RTD	1	Software Defect	Local
25Sep2018	1-10,13-14,17,19,21-24	1-12	RTD	1	Software Defect	Local
25Sep2018	11	1-3	RTPD	1	Software Defect	Local
25Sep2018	16	1-2	RTPD	1	Software Defect	Local
25Sep2018	1-10,14,17-18,20-24	1-4	RTPD	1	Software Defect	Local
25Sep2018	12-13,19	3-4	RTPD	1	Software Defect	Local
26Sep2018	1-24	1-12	RTD	1	Software Defect	Local
26Sep2018	1-24	1-4	RTPD	1	Software Defect	Local
27Sep2018	9	1-8,10-12	RTD	1	Software Defect	Local
27Sep2018	1-8,10-24	1-12	RTD	1	Software Defect	Local
27Sep2018	1-24	1-4	RTPD	1	Software Defect	Local
28Sep2018	1-24	1-12	RTD	1	Software Defect	Local
28Sep2018	1-24	1-4	RTPD	1	Software Defect	Local
29Sep2018	11	1-3,7-12	RTD	1	Software Defect	Local
29Sep2018	1-10,12-24	1-12	RTD	1	Software Defect	Local
29Sep2018	11	1-2,4	RTPD	1	Software Defect	Local
29Sep2018	1-10,12-24	1-4	RTPD	1	Software Defect	Local

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30Sep2018	1	1-2,4-12	RTD	1	Software Defect	Local
30Sep2018	2-24	1-12	RTD	1	Software Defect	Local
30Sep2018	1-24	1-4	RTPD	1	Software Defect	Local

Corrections made through interval replacement: 1

Date	HE	Intervals	Market	#	Reason	Affected Area
27-Sep-18	9	9	RTD	2,1	Software Defect	System

Corrections made through market rerun: 0

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Description of Issues:

1. **Software Defect:**
   - Invalid prices due to a software defect impacting pricing node LMPs.

   Prices were corrected by selective recalculation and interval replacement.

2. **Software Defect:**
   - Invalid prices due to a software issue impacting resource dispatch.

   Prices were corrected by interval replacement.

3. **Data Input Error:**
   - Invalid prices due to a data input error impacting resource dispatch.

   Prices were corrected by selective recalculation.

4. **Software Defect:**
   - Invalid pnode prices due to a software defect impacting calculation of marginal congestion component of Pricing nodes and Aggregate Pricing nodes.

   Prices were corrected by selective recalculation.

5. **Software Defect:**
   - Invalid prices due to a software defect impacting EIM functionality.

   Prices were corrected by selective recalculation.

6. **Data Input Error:**
   - Invalid congestion due to a data input error impacting contingency enforcement.

   Prices were corrected by selective recalculation.

7. **Software Defect:**
   - Invalid prices due to a software defect impacting resource dispatch.

   Prices were corrected by selective recalculation.

8. **Data Input Error:**
   - Invalid congestion due to a data input error impacting constraint enforcement.

   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 consective market distrputions.

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

Total number of filled price intervals: 0

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