

# Price Correction Report

## Week of November 6 – November 10, 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 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, **2657** intervals were corrected.

The trade dates covered by this report are:

DAM: 11/1/2017 – 11/7/2017

RTM: 10/30/2017 – 11/5/2017

### ***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.

# Price Correction Report

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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: 2647

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
30Oct2017	9	7	RTD	4,1	Data Input Error, Software Defect	509	Local
30Oct2017	9	11	RTD	4,1	Data Input Error, Software Defect	1402	Local
30Oct2017	9	12	RTD	4,1	Data Input Error, Software Defect	1401	Local
30Oct2017	9	8-10	RTD	4,1	Data Input Error, Software Defect	507	Local
30Oct2017	10	3	RTD	4,1	Data Input Error, Software Defect	507	Local
30Oct2017	10	7	RTD	4,1	Data Input Error, Software Defect	1401	Local
30Oct2017	10	1,4	RTD	4,1	Data Input Error, Software Defect	1402	Local
30Oct2017	10	2,5-6	RTD	4,1	Data Input Error, Software Defect	508	Local
30Oct2017	1	2	RTPD	2	Software Defect	23	Local
30Oct2017	9	3-4	RTPD	4	Data Input Error		Local
30Oct2017	10	1-4	RTPD	4	Data Input Error	454	Local
30Oct2017	11	1	RTPD	4,1	Data Input Error, Software Defect	506	Local
31Oct2017	1	2	RTPD	2	Software Defect	24	Local
01Nov2017	12	12	RTD	5	Software Defect	886	Local
01Nov2017	13	1,4-6	RTD	5	Software Defect	888	Local
01Nov2017	13	10	RTD	5	Software Defect	2228	Local
01Nov2017	13	2,7,9,11	RTD	5	Software Defect	887	Local
01Nov2017	13	3	RTD	5	Software Defect	1720	Local
01Nov2017	13	8,12	RTD	5	Software Defect	2230	Local
01Nov2017	14	1,3,5	RTD	5	Software Defect	886	Local
01Nov2017	14	2	RTD	5	Software Defect	887	Local
01Nov2017	24	7	RTD	6,1	Data Input Error, Software Defect	7488	Local
01Nov2017	1	2	RTPD	2	Software Defect	23	Local
01Nov2017	13	3-4	RTPD	5	Software Defect	887	Local
01Nov2017	14	1	RTPD	5	Software Defect	888	Local
01Nov2017	14	2-3	RTPD	5	Software Defect	887	Local
01Nov2017	14	4	RTPD	5	Software Defect	2230	Local
01Nov2017	24	4	RTPD	6,1	Data Input Error, Software Defect	7454	Local
02Nov2017	1	2	RTPD	2	Software Defect	26	Local
03Nov2017	10	10-11	RTD	4,1	Data Input Error, Software Defect	1403	Local
03Nov2017	17	10	RTD	3,1	Software Defect	72	Local
03Nov2017	17	11	RTD	3,1	Software Defect	74	Local
03Nov2017	17	12	RTD	3,1	Software Defect	75	Local
03Nov2017	18	1	RTD	3,1	Software Defect	73	Local
03Nov2017	18	4	RTD	3,1	Software Defect	54	Local
03Nov2017	18	5	RTD	3,1	Software Defect	56	Local
03Nov2017	18	6	RTD	3,1	Software Defect	58	Local
03Nov2017	18	7	RTD	3,1	Software Defect	68	Local
03Nov2017	18	2-3	RTD	3,1	Software Defect	64	Local
03Nov2017	18	8-9	RTD	3,1	Software Defect	70	Local

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03Nov2017	1	2	RTPD	2	Software Defect	27	Local
03Nov2017	18	3	RTPD	3,1	Software Defect	71	Local
03Nov2017	18	4	RTPD	3,1	Software Defect	70	Local
03Nov2017	18	1-2	RTPD	3,1	Software Defect	67	Local
04Nov2017	1	2	RTPD	2	Software Defect	28	Local
05Nov2017	1	2	RTPD	2	Software Defect	25	Local

The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 2-46

Date	HE	Intervals	Market	#	Reason	Affected Area
30Oct2017	9	1-6	RTD	1	Software Defect	Local
30Oct2017	10	8-12	RTD	1	Software Defect	Local
30Oct2017	1-8,11-24	1-12	RTD	1	Software Defect	Local
30Oct2017	9	1-2	RTPD	1	Software Defect	Local
30Oct2017	9	3-4	RTPD	1	Software Defect	Local
30Oct2017	10	1-4	RTPD	1	Software Defect	Local
30Oct2017	11	2-4	RTPD	1	Software Defect	Local
30Oct2017	1-8,12-24	1-4	RTPD	1	Software Defect	Local
31Oct2017	1-16,19-24	1-12	RTD	1	Software Defect	Local
31Oct2017	17	1-9,11-12	RTD	1	Software Defect	Local
31Oct2017	18	7-12	RTD	1	Software Defect	Local
31Oct2017	1-17,19-24	1-4	RTPD	1	Software Defect	Local
31Oct2017	18	2-4	RTPD	1	Software Defect	Local
01Nov2017	8	1-6	RTD	1	Software Defect	Local
01Nov2017	12	1-11	RTD	1	Software Defect	Local
01Nov2017	14	4,6-12	RTD	1	Software Defect	Local
01Nov2017	17	2,4-8,10-12	RTD	1	Software Defect	Local
01Nov2017	18	4-12	RTD	1	Software Defect	Local
01Nov2017	24	1-6,8-12	RTD	1	Software Defect	Local
01Nov2017	1-7,9-11,15-16,19-23	1-12	RTD	1	Software Defect	Local
01Nov2017	9	2-4	RTPD	1	Software Defect	Local
01Nov2017	13	1-2	RTPD	1	Software Defect	Local
01Nov2017	1-7,10-12,15-23	1-4	RTPD	1	Software Defect	Local
01Nov2017	8,24	1-3	RTPD	1	Software Defect	Local
02Nov2017	1-24	1-12	RTD	1	Software Defect	Local
02Nov2017	1-24	1-4	RTPD	1	Software Defect	Local
03Nov2017	10	1-9,12	RTD	1	Software Defect	Local
03Nov2017	18	10-12	RTD	1	Software Defect	Local
03Nov2017	22	4-12	RTD	1	Software Defect	Local
03Nov2017	17,21	1-9	RTD	1	Software Defect	Local
03Nov2017	1-9,11-16,19-20,23-24	1-12	RTD	1	Software Defect	Local
03Nov2017	22	4	RTPD	1	Software Defect	Local
03Nov2017	1-17,19-21,23-24	1-4	RTPD	1	Software Defect	Local
04Nov2017	1-24	1-12	RTD	1	Software Defect	Local
04Nov2017	1-24	1-4	RTPD	1	Software Defect	Local
05Nov2017	11	1-6,9-12	RTD	1	Software Defect	Local
05Nov2017	13	1-9,11-12	RTD	1	Software Defect	Local
05Nov2017	14	1-4,6-12	RTD	1	Software Defect	Local
05Nov2017	23	1-9	RTD	1	Software Defect	Local
05Nov2017	24	7-12	RTD	1	Software Defect	Local
05Nov2017	1-10,12,15-22	1-12	RTD	1	Software Defect	Local
05Nov2017	10	2-4	RTPD	1	Software Defect	Local
05Nov2017	1-9,11-24	1-4	RTPD	1	Software Defect	Local

### Corrections made through interval replacement: 10

Date	HE	Intervals	Market	#	Reason	Affected Area
5-Nov-17	23	10-12	RTD	7,1	Software Defect	System
5-Nov-17	24	1-6	RTD	7,1	Software Defect	System
5-Nov-17	25	1	RTD	8,1	Data Input Error, Software Defect	System

# Price Correction Report

## Week of November 6 – November 10, 2017

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. Software Defect:**

- Invalid congestion due to a software defect impacting to outage modeling.

Prices were corrected by selective recalculation.

**4. Data Input Error:**

- Invalid EIM prices due to a data input error impacting a resource dispatch.

Prices were corrected by selective recalculation.

**5. Software Defect:**

- Invalid prices in EIM area due to software defect impacting load forecast calculation.

Prices were corrected by selective recalculation.

**6. Data Input Error:**

- Invalid prices in EIM area flowgate constraint due to data input error for line limit.

Prices were corrected by selective recalculation.

**7. Software Defect:**

- Invalid prices due to a software defect impacting RTCD runs.

Prices were corrected by interval replacement.

**8. Data Input Error:**

- Invalid prices due to a data input error impacting load forecast.

Prices were corrected by interval replacement.

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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: 9

Date	HE	Interval	Market
31-Oct-17	15	7	RTD
31-Oct-17	15	8	RTD
31-Oct-17	16	1	RTPD
5-Nov-17	23	11	RTD
5-Nov-17	23	12	RTD
5-Nov-17	24	2	RTD
5-Nov-17	24	4	RTD
5-Nov-17	24	5	RTD
5-Nov-17	24	6	RTD

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