

# Price Correction Report

## Week of October 16-20

### 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, **2664** intervals were corrected.

The trade dates covered by this report are:

DAM: 10/11/2017 – 10/17/2017

RTM: 10/9/2017 – 10/15/2017

### ***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

## Week of October 16-20

### 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: 2664

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
09Oct2017	6	10	RTD	5,1	Software Defect	1400	Local
09Oct2017	1	2	RTPD	2	Software Defect	24	Local
09Oct2017	9	2-4	RTPD	6,1	Data Input Error		Local
10Oct2017	1	2	RTPD	2	Software Defect	26	Local
11Oct2017	4	3-9	RTD	3,1	Software Defect	142	Local
11Oct2017	4	10-12	RTD	3,1	Software Defect	143	Local
11Oct2017	5	10	RTD	3,1	Software Defect	143	Local
11Oct2017	5	11	RTD	3,1	Software Defect	1403	Local
11Oct2017	5	12	RTD	3,1	Software Defect	908	Local
11Oct2017	5	1,4,7	RTD	3,1	Software Defect	141	Local
11Oct2017	5	2-3,5-6,8-9	RTD	3,1	Software Defect	1401	Local
11Oct2017	6	1	RTD	3,1	Software Defect	139	Local
11Oct2017	6	3	RTD	3,1	Software Defect	904	Local
11Oct2017	6	4	RTD	3,1	Software Defect	140	Local
11Oct2017	6	10	RTD	3,1	Software Defect	143	Local
11Oct2017	6	12	RTD	3,1	Software Defect	144	Local
11Oct2017	6	5-9	RTD	3,1	Software Defect	141	Local
11Oct2017	7	1	RTD	3,1	Software Defect	145	Local
11Oct2017	7	7	RTD	3,1	Software Defect	146	Local
11Oct2017	8	4	RTD	3,1	Software Defect	142	Local
11Oct2017	8	7-10	RTD	3,1	Software Defect	143	Local
11Oct2017	8	11-12	RTD	3,1	Software Defect	144	Local
11Oct2017	9	1	RTD	3,1	Software Defect	144	Local
11Oct2017	9	4	RTD	3,1	Software Defect	146	Local
11Oct2017	9	12	RTD	3,1	Software Defect	1402	Local
11Oct2017	9	2-3	RTD	3,1	Software Defect	147	Local
11Oct2017	9	5-6,9	RTD	3,1	Software Defect	1404	Local
11Oct2017	9	7-8,10-11	RTD	3,1	Software Defect	1403	Local
11Oct2017	10	1-3	RTD	3,1	Software Defect	1405	Local
11Oct2017	10	5-12	RTD	3,1	Software Defect	1404	Local
11Oct2017	11	10	RTD	3,1	Software Defect	119	Local
11Oct2017	11	1-2	RTD	3,1	Software Defect	146	Local
11Oct2017	11	3,11	RTD	3,1	Software Defect	107	Local
11Oct2017	1	2	RTPD	2	Software Defect	25	Local
11Oct2017	9	1-4	RTPD	6	Data Input Error		Local
12Oct2017	21	7	RTD	4,1	Software Defect	61	Local
12Oct2017	21	8	RTD	4,1	Software Defect	54	Local
12Oct2017	21	10	RTD	4,1	Software Defect	60	Local
12Oct2017	22	1	RTD	4,1	Software Defect	3649	Local
12Oct2017	22	2	RTD	4,1	Software Defect	2313	Local

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12Oct2017	22	4	RTD	4,1	Software Defect	3650	Local
12Oct2017	22	6-7	RTD	4,1	Software Defect	3647	Local
12Oct2017	22	8-9	RTD	4,1	Software Defect	3646	Local
12Oct2017	22	3,5	RTD	4,1	Software Defect	3648	Local
12Oct2017	1	2	RTPD	2	Software Defect	24	Local
12Oct2017	22	1	RTPD	4,1	Software Defect	3649	Local
13Oct2017	1	1	RTD	4,1	Software Defect	1392	Local
13Oct2017	1	2	RTD	4,1	Software Defect	2221	Local
13Oct2017	1	3	RTD	4,1	Software Defect	3641	Local
13Oct2017	1	5	RTD	4,1	Software Defect	3132	Local
13Oct2017	1	12	RTD	4,1	Software Defect	3130	Local
13Oct2017	1	4,6	RTD	4,1	Software Defect	3642	Local
13Oct2017	1	7,10	RTD	4,1	Software Defect	3643	Local
13Oct2017	1	8-9,11	RTD	4,1	Software Defect	3133	Local
13Oct2017	2	1	RTD	4,1	Software Defect	3133	Local
13Oct2017	2	10	RTD	4,1	Software Defect	3641	Local
13Oct2017	2	2-3	RTD	4,1	Software Defect	1394	Local
13Oct2017	2	4-6	RTD	4,1	Software Defect	3132	Local
13Oct2017	2	7-9	RTD	4,1	Software Defect	3130	Local
13Oct2017	2	11-12	RTD	4,1	Software Defect	3131	Local
13Oct2017	3	10	RTD	4,1	Software Defect	3640	Local
13Oct2017	3	1,7	RTD	4,1	Software Defect	3641	Local
13Oct2017	3	2,11-12	RTD	4,1	Software Defect	3130	Local
13Oct2017	3	3,5-6	RTD	4,1	Software Defect	3132	Local
13Oct2017	3	4,8-9	RTD	4,1	Software Defect	3131	Local
13Oct2017	4	2-3	RTD	4,1	Software Defect	3640	Local
13Oct2017	4	7-9	RTD	4,1	Software Defect	3131	Local
13Oct2017	4	11-12	RTD	4,1	Software Defect	3132	Local
13Oct2017	4	1,4-6,10	RTD	4,1	Software Defect	3130	Local
13Oct2017	5	1	RTD	4,1	Software Defect	3644	Local
13Oct2017	5	7	RTD	4,1	Software Defect	3645	Local
13Oct2017	5	2-3,5-6,9,12	RTD	4,1	Software Defect	3134	Local
13Oct2017	5	4,10	RTD	4,1	Software Defect	3643	Local
13Oct2017	5	8,11	RTD	4,1	Software Defect	3133	Local
13Oct2017	6	12	RTD	4,1	Software Defect	2308	Local
13Oct2017	6	8-9	RTD	4,1	Software Defect	1396	Local
13Oct2017	6	1,4,7,10-11	RTD	4,1	Software Defect	3644	Local
13Oct2017	6	2-3,5-6	RTD	4,1	Software Defect	3134	Local
13Oct2017	7	1,9-12	RTD	4,1	Software Defect	3644	Local
13Oct2017	8	6	RTD	4,1	Software Defect	3644	Local
13Oct2017	8	7-10	RTD	4,1	Software Defect	3646	Local
13Oct2017	8	1,4-5	RTD	4,1	Software Defect	3645	Local
13Oct2017	9	1	RTD	4,1	Software Defect	3650	Local
13Oct2017	9	2-3	RTD	4,1	Software Defect	3646	Local
13Oct2017	9	4-9	RTD	4,1	Software Defect	3630	Local
13Oct2017	9	10-11	RTD	4,1	Software Defect	2293	Local
13Oct2017	10	2-3	RTD	4,1	Software Defect	2294	Local
13Oct2017	10	1,5	RTD	4,1	Software Defect	3630	Local
13Oct2017	10	4,6,10	RTD	4,1	Software Defect	3640	Local
13Oct2017	10	7,9,11-12	RTD	4,1	Software Defect	3646	Local
13Oct2017	11	1	RTD	4,1	Software Defect	2736	Local
13Oct2017	11	2	RTD	4,1	Software Defect	2736	Local
13Oct2017	11	3	RTD	4,1	Software Defect	3646	Local
13Oct2017	11	4-6	RTD	4,1	Software Defect	2737	Local
13Oct2017	11	7-10	RTD	4,1	Software Defect	1398	Local
13Oct2017	11	11-12	RTD	4,1	Software Defect	1397	Local
13Oct2017	12	4	RTD	4,1	Software Defect	1398	Local
13Oct2017	12	1,3,6	RTD	4,1	Software Defect	1399	Local
13Oct2017	12	2,5,7-10,12	RTD	4,1	Software Defect	1397	Local

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13Oct2017	13	3	RTD	4,1	Software Defect	1398	Local
13Oct2017	13	11	RTD	4,1	Software Defect	2737	Local
13Oct2017	13	7-9	RTD	4,1	Software Defect	2734	Local
13Oct2017	13	1,12	RTD	4,1	Software Defect	1399	Local
13Oct2017	13	6,10	RTD	4,1	Software Defect	2736	Local
13Oct2017	14	1,4,7-10	RTD	4,1	Software Defect	1398	Local
13Oct2017	14	3,11-12	RTD	4,1	Software Defect	2736	Local
13Oct2017	16	2	RTD	4,1	Software Defect	1390	Local
13Oct2017	16	3,6,10-11	RTD	4,1	Software Defect	2730	Local
13Oct2017	16	4,7-9	RTD	4,1	Software Defect	2728	Local
13Oct2017	16	5,12	RTD	4,1	Software Defect	2729	Local
13Oct2017	17	2	RTD	4,1	Software Defect	2729	Local
13Oct2017	17	4	RTD	4,1	Software Defect	1837	Local
13Oct2017	17	7-8	RTD	4,1	Software Defect	2732	Local
13Oct2017	17	1,5	RTD	4,1	Software Defect	1835	Local
13Oct2017	17	3,6	RTD	4,1	Software Defect	2730	Local
13Oct2017	18	1	RTD	4,1	Software Defect	1397	Local
13Oct2017	18	3	RTD	4,1	Software Defect	2225	Local
13Oct2017	18	2,4	RTD	4,1	Software Defect	2736	Local
13Oct2017	1	2	RTPD	2	Software Defect	25	Local
13Oct2017	1	3	RTPD	4,1	Software Defect	1416	Local
13Oct2017	1	4	RTPD	4,1	Software Defect	3641	Local
13Oct2017	2	3	RTPD	4,1	Software Defect	3641	Local
13Oct2017	2	4	RTPD	4,1	Software Defect	3640	Local
13Oct2017	2	1-2	RTPD	4,1	Software Defect	3642	Local
13Oct2017	3	1	RTPD	4,1	Software Defect	3642	Local
13Oct2017	3	2-4	RTPD	4,1	Software Defect	3640	Local
13Oct2017	4	1-4	RTPD	4,1	Software Defect	3640	Local
13Oct2017	7	3	RTPD	4,1	Software Defect	3646	Local
13Oct2017	7	1-2,4	RTPD	4,1	Software Defect	3645	Local
13Oct2017	8	1	RTPD	4,1	Software Defect	3645	Local
13Oct2017	8	2	RTPD	4,1	Software Defect	3646	Local
13Oct2017	8	3	RTPD	4,1	Software Defect	2308	Local
13Oct2017	9	2	RTPD	4,1	Software Defect	3630	Local
13Oct2017	9	3-4	RTPD	4,1	Software Defect	2293	Local
13Oct2017	10	1	RTPD	4,1	Software Defect	3640	Local
13Oct2017	10	4	RTPD	4,1	Software Defect	3646	Local
13Oct2017	10	2-3	RTPD	4,1	Software Defect	3645	Local
13Oct2017	11	1	RTPD	4,1	Software Defect	3646	Local
13Oct2017	11	3	RTPD	4,1	Software Defect	1398	Local
13Oct2017	11	4	RTPD	4,1	Software Defect	1400	Local
13Oct2017	12	1	RTPD	4,1	Software Defect	2737	Local
13Oct2017	12	2	RTPD	4,1	Software Defect	2738	Local
13Oct2017	12	3	RTPD	4,1	Software Defect	1399	Local
13Oct2017	12	4	RTPD	4,1	Software Defect	1397	Local
13Oct2017	13	2	RTPD	4,1	Software Defect	1398	Local
13Oct2017	13	3	RTPD	4,1	Software Defect	2312	Local
13Oct2017	15	2	RTPD	4,1	Software Defect	2310	Local
13Oct2017	15	4	RTPD	4,1	Software Defect	3647	Local
13Oct2017	16	1	RTPD	4,1	Software Defect	2304	Local
13Oct2017	16	3	RTPD	4,1	Software Defect	2306	Local
13Oct2017	16	4	RTPD	4,1	Software Defect	2305	Local
13Oct2017	17	1	RTPD	4,1	Software Defect	2730	Local
13Oct2017	17	2	RTPD	4,1	Software Defect	1389	Local
13Oct2017	18	1	RTPD	4,1	Software Defect	1841	Local
13Oct2017	18	4	RTPD	4,1	Software Defect	3648	Local
13Oct2017	19	2-4	RTPD	4,1	Software Defect	3648	Local
13Oct2017	20	1	RTPD	4,1	Software Defect	3647	Local
13Oct2017	20	3	RTPD	4,1	Software Defect	3648	Local

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13Oct2017	5-6	4	RTPD	4,1	Software Defect	3645	Local
13Oct2017	5-6	1-3	RTPD	4,1	Software Defect	3644	Local
14Oct2017	20	5	RTD	5	Software Defect	1375	Local
14Oct2017	1	2	RTPD	2	Software Defect	24	Local
15Oct2017	1	2	RTPD	2	Software Defect	25	Local

The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 2-49

Date	HE	Intervals	Market	#	Reason	Affected Area
09Oct2017	1-5,7-24	1-12	RTD	1	Software Defect	Local
09Oct2017	1-8,10-24	1-4	RTPD	1	Software Defect	Local
09Oct2017	6	1-9,11-12	RTD	1	Software Defect	Local
09Oct2017	9	1	RTPD	1	Software Defect	Local
09Oct2017	9	2-4	RTPD	1	Software Defect	Local
10Oct2017	1-24	1-12	RTD	1	Software Defect	Local
10Oct2017	1-24	1-4	RTPD	1	Software Defect	Local
11Oct2017	4	1-2	RTD	1	Software Defect	Local
11Oct2017	6	2,11	RTD	1	Software Defect	Local
11Oct2017	7	2-6,8-12	RTD	1	Software Defect	Local
11Oct2017	1-8,10-24	1-4	RTPD	1	Software Defect	Local
11Oct2017	8	1-3,5-6	RTD	1	Software Defect	Local
11Oct2017	10	4	RTD	1	Software Defect	Local
11Oct2017	11	4-9,12	RTD	1	Software Defect	Local
11Oct2017	1-3,12-24	1-12	RTD	1	Software Defect	Local
11Oct2017	9	1-4	RTPD	1	Software Defect	Local
12Oct2017	1-20,23-24	1-12	RTD	1	Software Defect	Local
12Oct2017	1-21,23-24	1-4	RTPD	1	Software Defect	Local
12Oct2017	21	1-6,9,11-12	RTD	1	Software Defect	Local
12Oct2017	22	10-12	RTD	1	Software Defect	Local
12Oct2017	22	2-4	RTPD	1	Software Defect	Local
13Oct2017	1	1-2	RTPD	1	Software Defect	Local
13Oct2017	7	2-8	RTD	1	Software Defect	Local
13Oct2017	8	4	RTPD	1	Software Defect	Local
13Oct2017	8	2-3,11-12	RTD	1	Software Defect	Local
13Oct2017	13	1,4	RTPD	1	Software Defect	Local
13Oct2017	9	12	RTD	1	Software Defect	Local
13Oct2017	10	8	RTD	1	Software Defect	Local
13Oct2017	15	1,3	RTPD	1	Software Defect	Local
13Oct2017	17	3-4	RTPD	1	Software Defect	Local
13Oct2017	12	11	RTD	1	Software Defect	Local
13Oct2017	13	2,4-5	RTD	1	Software Defect	Local
13Oct2017	18	2-3	RTPD	1	Software Defect	Local
13Oct2017	14	2,5-6	RTD	1	Software Defect	Local
13Oct2017	20	2,4	RTPD	1	Software Defect	Local
13Oct2017	16	1	RTD	1	Software Defect	Local
13Oct2017	11,16	2	RTPD	1	Software Defect	Local
13Oct2017	17	9-12	RTD	1	Software Defect	Local
13Oct2017	18	5-12	RTD	1	Software Defect	Local
13Oct2017	14,21-24	1-4	RTPD	1	Software Defect	Local
13Oct2017	15,19-24	1-12	RTD	1	Software Defect	Local
13Oct2017	9,19	1	RTPD	1	Software Defect	Local
14Oct2017	11	1-10,12	RTD	1	Software Defect	Local
14Oct2017	12	1,3-8,10-12	RTD	1	Software Defect	Local
14Oct2017	1-18,20-24	1-4	RTPD	1	Software Defect	Local
14Oct2017	20	10-12	RTD	1	Software Defect	Local
14Oct2017	19	1-3	RTPD	1	Software Defect	Local
14Oct2017	1-10,13-18,21-24	1-12	RTD	1	Software Defect	Local
15Oct2017	1-24	1-12	RTD	1	Software Defect	Local
15Oct2017	1-24	1-4	RTPD	1	Software Defect	Local

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**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.

**3. Software Defect:**

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

Prices were corrected by selective recalculation.

**4. Software Defect:**

- Invalid EIM prices due to a software defect impacting a transmission constraint.

Prices were corrected by selective recalculation.

**5. Software Defect:**

- Invalid PGE prices due to a software defect impacting pricing.

Prices were corrected by selective recalculation.

**6. Data Input Error:**

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

Prices were corrected by selective recalculation.

# Price Correction Report

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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: 5

Date	HE	Interval	Market
9-Oct-17	16	8	RTD
9-Oct-17	16	9	RTD
9-Oct-17	17	1	RTPD
10-Oct-17	17	9	RTD
12-Oct-17	23	9	RTD

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