

# Price Correction Report

## Week of February 26 – March 2, 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 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, **3373** intervals were corrected.

The trade dates covered by this report are:

DAM: 2/21/2018 – 2/27/2018

RTM: 2/16/2018 – 2/25/2018

### ***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.

# 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: 3334

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
16Feb2018	1	1	RTPD	10	Data Input Error		Local
16Feb2018	9	2,4	RTPD	7	Software Defect	830	Local
17Feb2018	18	12	RTD	9,1	Software Defect	894	Local
19Feb2018	19	1-4	RTPD	7	Software Defect	1336	Local
19Feb2018	20	3	RTPD	7	Software Defect	1336	Local
20Feb2018	14	1-2	RTD	5	Data Input Error		Local
20Feb2018	20	1-4	RTD	5	Data Input Error		Local
20Feb2018	18-19	1-12	RTD	5	Data Input Error		Local
20Feb2018	8	2	RTPD	7,1	Software Defect	1418	Local
20Feb2018	20	3	RTPD	5	Data Input Error		Local
20Feb2018	14,18	1-3	RTPD	5	Data Input Error		Local
21Feb2018	9	1	DA	4	Software Defect	36	Local
21Feb2018	14	1	DA	4	Software Defect	31	Local
21Feb2018	15	1	DA	4	Software Defect	25	Local
21Feb2018	19	1	DA	4	Software Defect	38	Local
21Feb2018	7-8,20-21	1	DA	4	Software Defect	37	Local
21Feb2018	17	7	RTD	3,1	Software Defect	1409	Local
21Feb2018	1	1-4	RTPD	7	Software Defect	1336	Local
21Feb2018	8	2	RTPD	7	Software Defect	1336	Local
21Feb2018	8	4	RTPD	7	Software Defect	830	Local
21Feb2018	8	1,3	RTPD	7	Software Defect	2163	Local
21Feb2018	9	2-4	RTPD	7	Software Defect	830	Local
21Feb2018	20	2-3	RTPD	7	Software Defect	393	Local
21Feb2018	22	1-3	RTPD	7	Software Defect	393	Local
21Feb2018	24	2	RTPD	7,1	Software Defect	888	Local
21Feb2018	24	3	RTPD	7,1	Software Defect	4472	Local
21Feb2018	24	4	RTPD	7,1	Software Defect	4471	Local
22Feb2018	13-14	1	DA	4	Software Defect	35	Local
22Feb2018	17	1-4,7-12	RTD	2	Software Defect	397	Local
22Feb2018	18	1-12	RTD	2	Software Defect	397	Local
22Feb2018	20	1-10	RTD	6	Software Defect	835	Local
22Feb2018	1	3	RTPD	8	Software Defect		Local
22Feb2018	2	1	RTPD	7,1	Software Defect	1289	Local
22Feb2018	2	3	RTPD	7,1	Software Defect	4495	Local
22Feb2018	2	4	RTPD	7,1	Software Defect	4494	Local
22Feb2018	7	1	RTPD	7	Software Defect	1340	Local
22Feb2018	20	1	RTPD	6	Software Defect	835	Local
22Feb2018	17-18	1-4	RTPD	2	Software Defect	397	Local
23Feb2018	8	1	DA	4	Software Defect	33	Local
23Feb2018	19	5-6	RTD	5	Data Input Error	835	Local
23Feb2018	19	1,3	RTD	5	Data Input Error		Local

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23Feb2018	7	3	RTPD	5	Data Input Error		Local
23Feb2018	18-19	4	RTPD	5	Data Input Error		Local
23Feb2018	19-20	1	RTPD	5	Data Input Error	835	Local
24Feb2018	11	1	DA	4	Software Defect	36	Local
24Feb2018	12	1	DA	4	Software Defect	32	Local
24Feb2018	15	1	DA	4	Software Defect	40	Local
24Feb2018	13-14	1	DA	4	Software Defect	38	Local
24Feb2018	9	1-3	RTPD	7	Software Defect	835	Local
25Feb2018	12	1	DA	4	Software Defect	36	Local
25Feb2018	13	1	DA	4	Software Defect	39	Local
25Feb2018	14	1	DA	4	Software Defect	37	Local
25Feb2018	15	1	DA	4	Software Defect	32	Local
25Feb2018	10-11	1	DA	4	Software Defect	29	Local
27Feb2018	2	1	DA	4	Software Defect	30	Local
27Feb2018	3-4	1	DA	4	Software Defect	34	Local

The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 1-54

Date	HE	Intervals	Market	#	Reason	Affected Area
16Feb2018	1-4,7-24	1-12	RTD	1	Software Defect	Local
16Feb2018	5	7-12	RTD	1	Software Defect	Local
16Feb2018	6	1-6	RTD	1	Software Defect	Local
16Feb2018	1	1	RTPD	1	Software Defect	Local
16Feb2018	1,7	2-4	RTPD	1	Software Defect	Local
16Feb2018	2-4,8-20,22-24	1-4	RTPD	1	Software Defect	Local
16Feb2018	5	4	RTPD	1	Software Defect	Local
16Feb2018	6,21	1-3	RTPD	1	Software Defect	Local
17Feb2018	1-9,11-16,19-24	1-12	RTD	1	Software Defect	Local
17Feb2018	10	1-6,9-12	RTD	1	Software Defect	Local
17Feb2018	17	1-9	RTD	1	Software Defect	Local
17Feb2018	1-24	1-4	RTPD	1	Software Defect	Local
18Feb2018	8	1-8	RTD	1	Software Defect	Local
18Feb2018	10	1,5-12	RTD	1	Software Defect	Local
18Feb2018	16	1-6,8-12	RTD	1	Software Defect	Local
18Feb2018	1-7,11-15,18-24	1-12	RTD	1	Software Defect	Local
18Feb2018	9,17	4-12	RTD	1	Software Defect	Local
18Feb2018	9	1-3	RTPD	1	Software Defect	Local
18Feb2018	10	4	RTPD	1	Software Defect	Local
18Feb2018	11	3	RTPD	1	Software Defect	Local
18Feb2018	16	1-2,4	RTPD	1	Software Defect	Local
18Feb2018	17	2-4	RTPD	1	Software Defect	Local
18Feb2018	1-8,12-15,18-24	1-4	RTPD	1	Software Defect	Local
19Feb2018	1-13,15-24	1-12	RTD	1	Software Defect	Local
19Feb2018	14	7-12	RTD	1	Software Defect	Local
19Feb2018	1-13,15-24	1-4	RTPD	1	Software Defect	Local
19Feb2018	14	1,4	RTPD	1	Software Defect	Local
20Feb2018	1-11,18-24	1-12	RTD	1	Software Defect	Local
20Feb2018	13	4-7,9-12	RTD	1	Software Defect	Local
20Feb2018	14	1-3	RTD	1	Software Defect	Local
20Feb2018	15	5-6,10-12	RTD	1	Software Defect	Local
20Feb2018	16	1-3,5-12	RTD	1	Software Defect	Local
20Feb2018	17	3-12	RTD	1	Software Defect	Local
20Feb2018	1-5,7,9-11,16-18,21-24	1-4	RTPD	1	Software Defect	Local
20Feb2018	12	1	RTPD	1	Software Defect	Local
20Feb2018	13,20	3-4	RTPD	1	Software Defect	Local
20Feb2018	15	3	RTPD	1	Software Defect	Local
20Feb2018	6,14	1-3	RTPD	1	Software Defect	Local
20Feb2018	8	1,3-4	RTPD	1	Software Defect	Local
21Feb2018	1-3,7-9,12-16,18-24	1-12	RTD	1	Software Defect	Local

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21Feb2018	11	10-12	RTD	1	Software Defect	Local
21Feb2018	17	1-2,4-6,8-12	RTD	1	Software Defect	Local
21Feb2018	4	1-3,7-12	RTD	1	Software Defect	Local
21Feb2018	5	1-6	RTD	1	Software Defect	Local
21Feb2018	6	1-3,9-12	RTD	1	Software Defect	Local
21Feb2018	1,3,7-9,12-23	1-4	RTPD	1	Software Defect	Local
21Feb2018	2	1-3	RTPD	1	Software Defect	Local
21Feb2018	4,24	1	RTPD	1	Software Defect	Local
21Feb2018	5	2-3	RTPD	1	Software Defect	Local
22Feb2018	1	1,3-12	RTD	1	Software Defect	Local
22Feb2018	6	1-6	RTD	1	Software Defect	Local
22Feb2018	8	5-9	RTD	1	Software Defect	Local
22Feb2018	9	1-6,10-12	RTD	1	Software Defect	Local
22Feb2018	10	1-4,6-9	RTD	1	Software Defect	Local
22Feb2018	11	1-6,9-12	RTD	1	Software Defect	Local
22Feb2018	15	1-3,7-12	RTD	1	Software Defect	Local
22Feb2018	2-5,12-14,16-24	1-12	RTD	1	Software Defect	Local
22Feb2018	2	2	RTPD	1	Software Defect	Local
22Feb2018	6	1-2	RTPD	1	Software Defect	Local
22Feb2018	10	1-3	RTPD	1	Software Defect	Local
22Feb2018	15	2,4	RTPD	1	Software Defect	Local
22Feb2018	1,3-5,9,12-14,16-24	1-4	RTPD	1	Software Defect	Local
22Feb2018	8,11	3-4	RTPD	1	Software Defect	Local
23Feb2018	4	1-3,7-12	RTD	1	Software Defect	Local
23Feb2018	7	5,10-12	RTD	1	Software Defect	Local
23Feb2018	14	7-12	RTD	1	Software Defect	Local
23Feb2018	15	2-5,7-12	RTD	1	Software Defect	Local
23Feb2018	16	1,5-6,8,10-12	RTD	1	Software Defect	Local
23Feb2018	17	3,7-12	RTD	1	Software Defect	Local
23Feb2018	18	9-12	RTD	1	Software Defect	Local
23Feb2018	20	1,3-12	RTD	1	Software Defect	Local
23Feb2018	1,8	4-12	RTD	1	Software Defect	Local
23Feb2018	2-3,5,9-13,19,21-24	1-12	RTD	1	Software Defect	Local
23Feb2018	1	1,3-4	RTPD	1	Software Defect	Local
23Feb2018	7	3	RTPD	1	Software Defect	Local
23Feb2018	8	2-4	RTPD	1	Software Defect	Local
23Feb2018	14	1,4	RTPD	1	Software Defect	Local
23Feb2018	17,18,20	1-2,4	RTPD	1	Software Defect	Local
23Feb2018	2-4,9-13,15-16,19,21-23	1-4	RTPD	1	Software Defect	Local
23Feb2018	5	2-3	RTPD	1	Software Defect	Local
24Feb2018	1	4-12	RTD	1	Software Defect	Local
24Feb2018	8	7,10-12	RTD	1	Software Defect	Local
24Feb2018	9	1-3,5-6,10-12	RTD	1	Software Defect	Local
24Feb2018	10	1-6	RTD	1	Software Defect	Local
24Feb2018	12	10-12	RTD	1	Software Defect	Local
24Feb2018	13	7-12	RTD	1	Software Defect	Local
24Feb2018	16	1-6,9-12	RTD	1	Software Defect	Local
24Feb2018	17	1-3,7-9	RTD	1	Software Defect	Local
24Feb2018	19	5-12	RTD	1	Software Defect	Local
24Feb2018	20	2-12	RTD	1	Software Defect	Local
24Feb2018	21	1,4-12	RTD	1	Software Defect	Local
24Feb2018	2-6,14-15,22-24	1-12	RTD	1	Software Defect	Local
24Feb2018	9	1	RTPD	1	Software Defect	Local
24Feb2018	15	1-2	RTPD	1	Software Defect	Local
24Feb2018	1,14,19	3-4	RTPD	1	Software Defect	Local
24Feb2018	2-5,10,16,20-24	1-4	RTPD	1	Software Defect	Local
24Feb2018	6,13	1-3	RTPD	1	Software Defect	Local
25Feb2018	8	10-12	RTD	1	Software Defect	Local
25Feb2018	9	1-6	RTD	1	Software Defect	Local

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25Feb2018	10	7	RTD	1	Software Defect	Local
25Feb2018	12	3,11-12	RTD	1	Software Defect	Local
25Feb2018	13	2,4-12	RTD	1	Software Defect	Local
25Feb2018	15	1-4	RTD	1	Software Defect	Local
25Feb2018	16	1-4,7-12	RTD	1	Software Defect	Local
25Feb2018	17	1,4-12	RTD	1	Software Defect	Local
25Feb2018	18	1-2,7-12	RTD	1	Software Defect	Local
25Feb2018	1-6,14,19-24	1-12	RTD	1	Software Defect	Local
25Feb2018	9	1-2	RTPD	1	Software Defect	Local
25Feb2018	13	3-4	RTPD	1	Software Defect	Local
25Feb2018	15	1-2,4	RTPD	1	Software Defect	Local
25Feb2018	19	2-3	RTPD	1	Software Defect	Local
25Feb2018	20	4	RTPD	1	Software Defect	Local
25Feb2018	1-2,16	2-4	RTPD	1	Software Defect	Local
25Feb2018	3,5-6,14,21-24	1-4	RTPD	1	Software Defect	Local
25Feb2018	4,11,17	1-3	RTPD	1	Software Defect	Local

### Corrections made through interval replacement: 39

Date	HE	Intervals	Market	#	Reason	Affected Area
16-Feb-18	21	4	RTPD	7,1	Software Defect	System
17-Feb-18	17	10-12	RTD	11,1	Software Defect	System
17-Feb-18	18	1-11	RTD	11,1	Software Defect	System
20-Feb-18	19	1-4	RTPD	5,1	Data Input Error, Software Defect	System
20-Feb-18	20	1-2	RTPD	5,1	Data Input Error, Software Defect	System
20-Feb-18	6	4	RTPD	7,1	Software Defect	System
22-Feb-18	1	2	RTD	8,1	Software Defect	System
23-Feb-18	18	3	RTPD	7,1	Software Defect	System
23-Feb-18	24	1-4	RTPD	7,1	Software Defect	System
23-Feb-18	6	4	RTPD	7	Software Defect	System
24-Feb-18	18	3	RTPD	7,1	Software Defect	System
24-Feb-18	6	4	RTPD	7,1	Software Defect	System
24-Feb-18	17	4	RTPD	7	Software Defect	System
25-Feb-18	18	3-4	RTPD	7	Software Defect	System
25-Feb-18	19	1,4	RTPD	7,1	Software Defect	System
25-Feb-18	20	1	RTPD	7	Software Defect	System
25-Feb-18	4,17	4	RTPD	7,1	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:

- Incorrect PGE prices due to a software defect related to resource dispatch.

Prices were corrected by selective recalculation.

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### 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 nodal group congestion due to a software defect related to incorrect limit.

Prices were corrected by selective recalculation.

### 5. Data Input Error:

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

Prices were corrected by selective recalculation and interval replacement.

### 6. Software Defect:

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

Prices were corrected by selective recalculation.

### 7. Software Defect:

- Invalid prices due to a software defect impacting pricing.

Prices were corrected by selective recalculation and interval replacement.

### 8. Software Defect:

- Invalid prices due to a software issue impacting resource dispatch.

Prices were corrected by selective recalculation and interval replacement.

### 9. Software Defect:

- Invalid prices in EIM area due to a software variance resource dispatch..

Prices were corrected by selective recalculation.

### 10. Data Input Error:

- Invalid upward flex ramp price due to a data input error impacting tie schedules.

Prices were corrected by selective recalculation.

### 11. Software Defect:

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

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: 24

Date	HE	Interval	Market
15-Feb-18	15	7-10	RTD
15-Feb-18	16	1-3	RTPD
15-Feb-18	22	2-4	RTD
17-Feb-18	17	11-12	RTD
17-Feb-18	18	1,3-4,6,8,10-11	RTD
21-Feb-18	24	11-12	RTD
22-Feb-18	1	1	RTD
22-Feb-18	1	1-2	RTPD

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