

# Price Correction Report

## Week of May 22-26, 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, **232** intervals were corrected.

The trade dates covered by this report are:

DAM: 5/17/2017 – 5/23/2017

RTM: 5/15/2017 – 5/21/2017

### ***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. 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: 216

Date	HE	Interval	Market	#	Reason	Count of Corrected Pnode/Apnode	Affected Location
15MAY2017	10	1	RTPD	1	Data Input Error	53	Local
15MAY2017	10	2	RTD	1	Data Input Error	62	Local
15MAY2017	10	2-3	RTPD	1	Data Input Error	52	Local
15MAY2017	10	9	RTD	1	Data Input Error	53	Local
15MAY2017	11	1,3,10	RTD	1	Data Input Error	54	Local
15MAY2017	11	2,11-12	RTD	1	Data Input Error	55	Local
15MAY2017	11	4	RTD	1	Data Input Error	56	Local
15MAY2017	11	5	RTD	1	Data Input Error	61	Local
15MAY2017	11	6	RTD	1	Data Input Error	59	Local
15MAY2017	11	7	RTD	1	Data Input Error	52	Local
15MAY2017	11	8	RTD	1	Data Input Error	65	Local
15MAY2017	11	9	RTD	1	Data Input Error	63	Local
15MAY2017	11,14	2-4	RTPD	1	Data Input Error	53	Local
15MAY2017	12	1-3,9	RTD	1	Data Input Error	53	Local
15MAY2017	12	11	RTD	1	Data Input Error	65	Local
15MAY2017	12	12	RTD	1	Data Input Error	54	Local
15MAY2017	12	3	RTPD	1	Data Input Error	52	Local
15MAY2017	12	4	RTD	1	Data Input Error	60	Local
15MAY2017	12	4	RTPD	1	Data Input Error	50	Local
15MAY2017	12	6	RTD	1	Data Input Error	56	Local
15MAY2017	12	7-8,10	RTD	1	Data Input Error	52	Local
15MAY2017	12,15	1-2	RTPD	1	Data Input Error	53	Local
15MAY2017	12-13	5	RTD	1	Data Input Error	58	Local
15MAY2017	13	1	RTPD	1	Data Input Error	55	Local
15MAY2017	13	1,8,10	RTD	1	Data Input Error	55	Local
15MAY2017	13	12	RTD	1	Data Input Error	61	Local
15MAY2017	13	2,4	RTPD	1	Data Input Error	52	Local
15MAY2017	13	2-3,6	RTD	1	Data Input Error	54	Local
15MAY2017	13	3	RTPD	1	Data Input Error	54	Local
15MAY2017	13	4,7,11	RTD	1	Data Input Error	56	Local
15MAY2017	13	9	RTD	1	Data Input Error	64	Local
15MAY2017	14	1	RTPD	1	Data Input Error	54	Local
15MAY2017	14	1-3,10	RTD	1	Data Input Error	56	Local
15MAY2017	14	12	RTD	1	Data Input Error	58	Local
15MAY2017	14	4,8	RTD	1	Data Input Error	59	Local
15MAY2017	14	5-6	RTD	1	Data Input Error	65	Local

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15MAY2017	14	7,9,11	RTD	1	Data Input Error	61	Local
15MAY2017	15	2	RTD	1	Data Input Error	60	Local
15MAY2017	15	3	RTD	1	Data Input Error	57	Local
15MAY2017	15	4	RTD	1	Data Input Error	58	Local
15MAY2017	16	10	RTD	1	Data Input Error	57	Local
15MAY2017	16	11	RTD	1	Data Input Error	61	Local
15MAY2017	16	12	RTD	1	Data Input Error	63	Local
15MAY2017	16	9	RTD	1	Data Input Error	54	Local
15MAY2017	17	1,4-5,7-8	RTD	1	Data Input Error	54	Local
15MAY2017	17	2,12	RTD	1	Data Input Error	57	Local
15MAY2017	17	3	RTD	1	Data Input Error	56	Local
15MAY2017	17	9-11	RTD	1	Data Input Error	53	Local
15MAY2017	17-18	6	RTD	1	Data Input Error	55	Local
15MAY2017	18	5	RTD	1	Data Input Error	54	Local
18MAY2017	9	1-12	RTD	2	Data Input Error	919	Local
18MAY2017	9	1-4	RTPD	2	Data Input Error	919	Local
19MAY2017	12	1	RTPD	2	Data Input Error	6151	System
19MAY2017	14	4	RTPD	2	Data Input Error	6224	System
19MAY2017	14	7	RTD	2	Data Input Error	6230	System
19MAY2017	14	8	RTD	2	Data Input Error	6229	System
19MAY2017	19	1	RTPD	2	Data Input Error	2043	Local
19MAY2017	19	2	RTPD	2	Data Input Error	2044	Local
19MAY2017	19	4	RTPD	2	Data Input Error	2019	Local
19MAY2017	19	8	RTD	2	Data Input Error	2034	Local
19MAY2017	19	9	RTD	2	Data Input Error	2035	Local
19MAY2017	20	1	RTD	2	Data Input Error	1983	Local
19MAY2017	20	1	RTPD	2	Data Input Error	1983	Local
19MAY2017	20	10	RTD	2	Data Input Error	2005	Local
19MAY2017	20	2	RTD	2	Data Input Error	1982	Local
19MAY2017	20	2	RTPD	2	Data Input Error	1985	Local
19MAY2017	20	3	RTPD	2	Data Input Error	2014	Local
19MAY2017	20	4	RTD	2	Data Input Error	1981	Local
19MAY2017	20	4	RTPD	2	Data Input Error	2007	Local
19MAY2017	20	5	RTD	2	Data Input Error	2026	Local
19MAY2017	20	6	RTD	2	Data Input Error	2027	Local
19MAY2017	20	7	RTD	2	Data Input Error	1978	Local
19MAY2017	20	8	RTD	2	Data Input Error	1996	Local
19MAY2017	20	9	RTD	2	Data Input Error	1997	Local
19MAY2017	21	1	RTPD	2	Data Input Error	1998	Local
19MAY2017	21	2	RTPD	2	Data Input Error	1996	Local
19MAY2017	22	1	RTD	2	Data Input Error	1678	Local
19MAY2017	22	1	RTPD	2	Data Input Error	2372	Local
19MAY2017	22	2	RTPD	2	Data Input Error	2370	Local
19MAY2017	22	3	RTD	2	Data Input Error	1674	Local
19MAY2017	22	4	RTD	2	Data Input Error	1677	Local
19MAY2017	9	1	RTPD	2	Data Input Error	6188	System
19MAY2017	9	2	RTPD	2	Data Input Error	6183	System
20MAY2017	1	1	RTPD	2	Data Input Error	2614	Local
20MAY2017	1,8,10	1	DA	2	Data Input Error	10062	System
20MAY2017	11-12	1	DA	2	Data Input Error	10065	System
20MAY2017	17	1	DA	2	Data Input Error	10078	System
20MAY2017	18	1	DA	2	Data Input Error	10084	System

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20MAY2017	19	1	DA	2	Data Input Error	10071	System
20MAY2017	2	1	DA	2	Data Input Error	10051	System
20MAY2017	20	1	DA	2	Data Input Error	10063	System
20MAY2017	21	1	DA	2	Data Input Error	10074	System
20MAY2017	22	1	DA	2	Data Input Error	10087	System
20MAY2017	23	1	DA	2	Data Input Error	10086	System
20MAY2017	24	1	DA	2	Data Input Error	10085	System
20MAY2017	6	1	DA	2	Data Input Error	10044	System
20MAY2017	7	1	DA	2	Data Input Error	10058	System
20MAY2017	9	1	DA	2	Data Input Error	10064	System
21MAY2017	12	1	RTPD	2	Data Input Error	6207	Local
21MAY2017	12	2	RTPD	2	Data Input Error	6208	Local
21MAY2017	19	2	RTPD	2	Data Input Error	1560	Local
21MAY2017	1	1	DA	2	Data Input Error	2585	Local
21MAY2017	13	1	DA	2	Data Input Error	2576	Local
21MAY2017	15	1	DA	2	Data Input Error	10079	System
21MAY2017	16-17,23	1	DA	2	Data Input Error	10084	System
21MAY2017	18	1	DA	2	Data Input Error	10085	System
21MAY2017	19,22	1	DA	2	Data Input Error	10086	System
21MAY2017	20	1	DA	2	Data Input Error	10068	System
21MAY2017	21	1	DA	2	Data Input Error	10074	System
21MAY2017	24	1	DA	2	Data Input Error	10069	System
21MAY2017	3	1	DA	2	Data Input Error	10064	System
21MAY2017	4,7	1	DA	2	Data Input Error	10048	System
21MAY2017	5-6,10	1	DA	2	Data Input Error	10050	System
21MAY2017	8	1	DA	2	Data Input Error	10049	System
21MAY2017	9,11	1	DA	2	Data Input Error	10066	System
22MAY2017	1	1	DA	2	Data Input Error	9993	System
22MAY2017	10	1	DA	2	Data Input Error	9984	System
22MAY2017	14	1	DA	2	Data Input Error	2704	Local
22MAY2017	15	1	DA	2	Data Input Error	10049	System
22MAY2017	16,22	1	DA	2	Data Input Error	10038	System
22MAY2017	17	1	DA	2	Data Input Error	10044	System
22MAY2017	18	1	DA	2	Data Input Error	10060	System
22MAY2017	19	1	DA	2	Data Input Error	10057	System
22MAY2017	2	1	DA	2	Data Input Error	10048	System
22MAY2017	20	1	DA	2	Data Input Error	10040	System
22MAY2017	21	1	DA	2	Data Input Error	10043	System
22MAY2017	23	1	DA	2	Data Input Error	10029	System
22MAY2017	24	1	DA	2	Data Input Error	10021	System
22MAY2017	3	1	DA	2	Data Input Error	10008	System
22MAY2017	4	1	DA	2	Data Input Error	10001	System
22MAY2017	7	1	DA	2	Data Input Error	10015	System
22MAY2017	8-9,11	1	DA	2	Data Input Error	10013	System
23MAY2017	10	1	DA	2	Data Input Error	10100	System
23MAY2017	11	1	DA	2	Data Input Error	10138	System
23MAY2017	12,17	1	DA	2	Data Input Error	10170	System
23MAY2017	13	1	DA	2	Data Input Error	10199	System
23MAY2017	14	1	DA	2	Data Input Error	10204	System
23MAY2017	15-16	1	DA	2	Data Input Error	10159	System
23MAY2017	18	1	DA	2	Data Input Error	10156	System
23MAY2017	19	1	DA	2	Data Input Error	10157	System

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23MAY2017	20-22	1	DA	2	Data Input Error	2699	Local
23MAY2017	23	1	DA	2	Data Input Error	10045	System
23MAY2017	9	1	DA	2	Data Input Error	10032	System
17MAY2017	15	11	RTD	7	Software Defect	1809	Local

### Corrections made through interval replacement: 16

Date	HE	Interval	Market	#	Reason	Affected Location
18MAY2017	6	8	RTD	2	Data Input Error	System
20MAY2017	8-9,12,17-18,23	1	RUC	2	Data Input Error	System
21MAY2017	10-11,15-16	1	RUC	2	Data Input Error	System
22MAY2017	11,23	1	RUC	2	Data Input Error	System
23MAY2017	11,17-18	1	RUC	2	Data Input Error	System

### Corrections made through market rerun: 0

### Description of Issues:

#### 1. Data Input Error:

- Invalid congestion on 29408\_WIRLWIND\_230\_29402\_WIRLWIND\_500\_XF\_3\_P due to a data input error related to outage modeling.

Prices were corrected by selective recalculation.

#### 2. Data Input Error:

- Invalid prices due to a data input error related to an outage.

Prices were corrected by selective recalculation or interval replacement.

#### 3. Software Defect:

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

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-

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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: 0

Date	HE	Interval	Market
17MAY2017	24	11	RTD
17MAY2017	24	12	RTD
18MAY2017	1	1	RTD
18MAY2017	1	1	RTPD
18MAY2017	1	2	RTD
18MAY2017	1	2	RTPD
18MAY2017	1	3	RTD
18MAY2017	15	7	RTD
18MAY2017	15	8	RTD
18MAY2017	16	1	RTPD

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