

### 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, **2530** intervals were corrected.

The trade dates covered by this report are:

DAM: 6/20/2018 - 6/26/2018 RTM: 6/18/2018 - 6/24/2018

### **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.

Date	HE	Intervals	Market	#	Reason	Number of corrected	Affected
						Pnodes/Apnodes	Area
18Jun2018	1	3-12	RTD	6	Software Defect	1	Local
18Jun2018	2	1-12	RTD	6	Software Defect	1	Local
18Jun2018	1-2	1-4	RTPD	6	Software Defect	1	Local
20Jun2018	22	1-5	RTD	6	Software Defect	1	Local
20Jun2018	22	1-4	RTPD	6	Software Defect	1	Local
21Jun2018	19	7-9	RTD	6	Software Defect	1	Local
21Jun2018	21	1-7,11-12	RTD	6	Software Defect	1	Local
21Jun2018	22	12	RTD	6	Software Defect	1	Local
21Jun2018	23	2-12	RTD	6	Software Defect	1	Local
21Jun2018	24	1-12	RTD	6	Software Defect	1	Local
21Jun2018	23-24	1-4	RTPD	6	Software Defect	1	Local
22Jun2018	1	1-12	RTD	6	Software Defect	1	Local
22Jun2018	2	1-7	RTD	6	Software Defect	1	Local
22Jun2018	13	6,8,10-11	RTD	3,1	Data Input Error, Software Defect	67	Local
22Jun2018	13	7,9	RTD	3,1	Data Input Error, Software Defect	66	Local
22Jun2018	21	1-4,7	RTD	6	Software Defect	1	Local
22Jun2018	24	1-5,8	RTD	6	Software Defect	1	Local
22Jun2018	1-2	1-4	RTPD	6	Software Defect	1	Local
22Jun2018	21	1,4	RTPD	6	Software Defect	1	Local
22Jun2018	22	2,4	RTPD	6	Software Defect	1	Local
22Jun2018	24	4	RTPD	6	Software Defect	1	Local
23Jun2018	11	7	RTD	2,1	Data Input Error, Software Defect	186	Local
23Jun2018	21	7,9-12	RTD	6	Software Defect		Local
23Jun2018	11	4	RTPD	2,1	Data Input Error, Software Defect 18		Local
23Jun2018	21	4	RTPD	6	Software Defect 1		Local
24Jun2018	1	1	RTD	5	Software Defect		Local
24Jun2018	1	5-10	RTD	6	Software Defect 1		Local
24Jun2018	23	1,5,7-12	RTD	6	Software Defect 1		Local
24Jun2018	24	1	RTD	4	Data Input Error 534		Local
24Jun2018	24	2-3,5-6	RTD	6	Software Defect	1	Local
24Jun2018	24	1-2,4	RTPD	6	Software Defect	1	Local
24Jun2018	1,23	3-4	RTPD	6	Software Defect	1	Local

#### Corrections made through selective recalculation: 2520

The range of corrected Pnode/APnode for the below trade days regarding correction numbers 1 is 1-55

Date	HE	Intervals	Market	#	Reason	Affected Area
18Jun2018	13	1-9,11-12	RTD	1	Software Defect	Local
18Jun2018	1-12,14-24	1-12	RTD	1	Software Defect	Local
18Jun2018	1-24	1-4	RTPD	1	Software Defect	Local
19Jun2018	15	4-12	RTD	1	Software Defect	Local
19Jun2018	18	1-9	RTD	1	Software Defect	Local
19Jun2018	20	1-5,10-12	RTD	1	Software Defect	Local



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### Corrections made through interval replacement: 10

Date	HE	Intervals	Market	#	Reason	Affected Area
18Jun2018	13	10	RTD	7,1	Data Input Error, Software Defect	System
20Jun2018	10	7	RTD	7	Data Input Error	System
20Jun2018	11	7	RTD	7,1	Data Input Error, Software Defect	System
20Jun2018	11	10	RTD	7	Data Input Error	System
21Jun2018	19	10-12	RTD	9,1	Software Defect	System
21Jun2018	20	1-2	RTD	9,1	Software Defect	System
22Jun2018	7	1	RTD	8,1	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 and interval replacement.

#### 2. Data Input Error:

• Invalid congestion due to a data input error impacting constraint enforcement.

Prices were corrected by selective recalculation.

#### 3. Data Input Error:

• Invalid price due to a data input error impacting a flowgate limit.

Prices were corrected by selective recalculation.

#### 4. Data Input Error:

• Invalid prices due to a data input error affecting the EIM transfer limit.

Prices were corrected by selective recalculation.

#### 5. Software Defect:

• Invalid prices due to a software defect impacting flexible ramping product and energy prices.

Prices were corrected by selective recalculation.

#### 6. Software Defect:

• Invalid SUMMIT\_ASR-APND apnode and sp-tie price due to a software defect affecting EIM functionality.

Prices were corrected by selective recalculation.

#### 7. Data Input Error:

• Invalid market run due to a data input error impacting a resource dispatch.

Prices were corrected by selective recalculation and interval replacement.

#### 8. Software Defect:

• Invalid price due to a software defect impacting inter-tie schedules.

Prices were corrected by selective recalculation and interval replacement.



#### 9. Software Defect:

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

Prices were corrected by selective recalculation and interval replacement.



## **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 realtime 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 distributions.

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

### Total number of filled price intervals: 7

Date	HE	Interval	Market
21-Jun-18	7	1	RTPD
21-Jun-18	19	8-9	RTD
21-Jun-18	19	11-12	RTD
21-Jun-18	20	1-2	RTD

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