# Price Correction Report
## Week of September 11-15

## 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, **3813** intervals were corrected.

The trade dates covered by this report are:

DAM: 9/06/2017 – 9/12/2017
RTM: 9/01/2017 – 9/10/2017

*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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## Week of September 11-15

## 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**: **3809**

| Date | HE | Intervals | Market | # | Reason | Count of Corrected Pnode/Apnode | Affected Area |
|---|---|---|---|---|---|---|---|
| 01Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 25 | Local |
| 02Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 24 | Local |
| 03Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 25 | Local |
| 04Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 23 | Local |
| 05Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 23 | Local |
| 06Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 25 | Local |
| 07Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 22 | Local |
| 08Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 25 | Local |
| 09Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 24 | Local |
| 10Sep2017 | 14 | 12 | RTD | 3,1 | Data Input Error, Software Defect | 3736 | Local |
| 10Sep2017 | 15 | 1 | RTD | 3,1 | Data Input Error, Software Defect | 2773 | Local |
| 10Sep2017 | 15 | 2-3 | RTD | 3,1 | Data Input Error, Software Defect | 2772 | Local |
| 10Sep2017 | 15 | 4 | RTD | 3,1 | Data Input Error, Software Defect | 2747 | Local |
| 10Sep2017 | 1 | 2 | RTPD | 2 | Software Defect | 26 | Local |
| 10Sep2017 | 15 | 3 | RTPD | 3,1 | Data Input Error, Software Defect | 2747 | Local |

The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 1-51

| Date | HE | Intervals | Market | # | Reason | Affected Area |
|---|---|---|---|---|---|---|
| 01Sep2017 | 1-4,6-8,10-18,20-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 01Sep2017 | 19 | 1-7,9-12 | RTD | 1 | Software Defect | Local |
| 01Sep2017 | 5 | 1-9 | RTD | 1 | Software Defect | Local |
| 01Sep2017 | 9 | 1-8,10-12 | RTD | 1 | Software Defect | Local |
| 01Sep2017 | 1-4,6-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 01Sep2017 | 5 | 1-3 | RTPD | 1 | Software Defect | Local |
| 02Sep2017 | 1 | 4-12 | RTD | 1 | Software Defect | Local |
| 02Sep2017 | 17 | 1-4,9-12 | RTD | 1 | Software Defect | Local |
| 02Sep2017 | 2-16,18-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 02Sep2017 | 1 | 1,3-4 | RTPD | 1 | Software Defect | Local |
| 02Sep2017 | 2-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 03Sep2017 | 1-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 03Sep2017 | 1-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 04Sep2017 | 1-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 04Sep2017 | 1-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 05Sep2017 | 1-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 05Sep2017 | 1-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 06Sep2017 | 1-21,23-24 | 1-12 | RTD | 1 | Software Defect | Local |

| 06Sep2017 | 22 | 1-3,10-12 | RTD | 1 | Software Defect | Local |
|---|---|---|---|---|---|---|
| 06Sep2017 | 1 | 1-2,4 | RTPD | 1 | Software Defect | Local |
| 06Sep2017 | 2-21,23-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 06Sep2017 | 22 | 1,3 | RTPD | 1 | Software Defect | Local |
| 07Sep2017 | 1-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 07Sep2017 | 1-4,6-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 07Sep2017 | 5 | 1-3 | RTPD | 1 | Software Defect | Local |
| 08Sep2017 | 1-6,8-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 08Sep2017 | 7 | 1-6 | RTD | 1 | Software Defect | Local |
| 08Sep2017 | 1-6,8-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 08Sep2017 | 7 | 1-3 | RTPD | 1 | Software Defect | Local |
| 09Sep2017 | 1-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 09Sep2017 | 1-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 10Sep2017 | 1-8,10-13,16-24 | 1-12 | RTD | 1 | Software Defect | Local |
| 10Sep2017 | 14 | 1-11 | RTD | 1 | Software Defect | Local |
| 10Sep2017 | 15 | 5-12 | RTD | 1 | Software Defect | Local |
| 10Sep2017 | 9 | 1-5,7-12 | RTD | 1 | Software Defect | Local |
| 10Sep2017 | 1-14,16-24 | 1-4 | RTPD | 1 | Software Defect | Local |
| 10Sep2017 | 15 | 1-2,4 | RTPD | 1 | Software Defect | Local |

# Price Correction Report
## Week of September 11-15

**Corrections made through interval replacement: 4**

| Date | HE | Interval | Market | # | Reason | Area Affected |
|---|---|---|---|---|---|---|
| 2-Sep-17 | 17 | 5-8 | RTD | 4 | 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:**
   - Missing DGAP and DGAP SP-Tie prices due to a software defect.

   Prices were corrected by selective recalculation.

3. **Data Input Error:**
   - Invalid congestion on 7750_DV2_N2DV500_NG due to a data input error related to the nomogram limit.

   Prices were corrected by selective recalculation.

4. **Software Defect:**
   - Invalid prices due to a software defect impacting RTCD runs.

   Prices were corrected by 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 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 consective market distrputions.

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## Week of September 11-15

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

**Total number of filled price intervals: 4**

| Date | HE | Interval | Market |
|---|---|---|---|
| 2-Sep-17 | 17 | 6 | RTD |
| 2-Sep-17 | 17 | 7 | RTD |
| 2-Sep-17 | 17 | 8 | RTD |
| 10-Sep-17 | 20 | 11 | RTD |

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