Price Correction Report
Week of Apr 3-7, 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 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 new 5 business day for real-time market and 3 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, **127** intervals were corrected.

<u>The trade dates covered by this report are:</u>

DAM: 3/29/2017 – 4/4/2017
RTM: 3/27/2017 – 4/2/2017

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 Apr 3-7, 2017

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: 54

Date	HE	Interval	Market	#	Reason	Count of Corrected Pnode/Apnode	Affected Location
28Mar2017	24	11	RTD	2	Software Defect	824	Local
28Mar2017	8	10	RTD	2	Software Defect	528	Local
28Mar2017	8	11	RTD	2	Software Defect	999	Local
28Mar2017	8	12	RTD	2	Software Defect	984	Local
28Mar2017	8	2	RTD	2	Software Defect	1020	Local
28Mar2017	8	3-5	RTD	2	Software Defect	1021	Local
28Mar2017	8	6	RTD	2	Software Defect	1024	Local
28Mar2017	8	7	RTD	2	Software Defect	513	Local
28Mar2017	8	8	RTD	2	Software Defect	1017	Local
28Mar2017	8	9	RTD	2	Software Defect	112	Local
28Mar2017	9	1,7	RTD	2	Software Defect	530	Local
28Mar2017	9	10	RTD	2	Software Defect	509	Local
28Mar2017	9	2	RTD	2	Software Defect	1010	Local
28Mar2017	9	3	RTD	2	Software Defect	984	Local
28Mar2017	9	4	RTD	2	Software Defect	496	Local
28Mar2017	9	5	RTD	2	Software Defect	1008	Local
28Mar2017	9	6,9,11-12	RTD	2	Software Defect	1013	Local
28Mar2017	9	8	RTD	2	Software Defect	531	Local
28Mar2017	8	4	RTPD	2	Software Defect	512	Local
28Mar2017	9	1	RTPD	2	Software Defect	512	Local
28Mar2017	9	2	RTPD	2	Software Defect	511	Local
28Mar2017	9	3	RTPD	2	Software Defect	508	Local
28Mar2017	9	4	RTPD	2	Software Defect	503	Local
29Mar2017	10	1-12	RTD	2	Software Defect		Local
29Mar2017	14	12	RTD	2	Software Defect	1333	Local
29Mar2017	10	1-4	RTPD	2	Software Defect		Local
29Mar2017	14	3	RTPD	2	Software Defect	1333	Local
30Mar2017	18	4-5	RTD	1	Data Input Error	880	Local
30Mar2017	18	1	RTPD	1	Data Input Error	880	Local
30Mar2017	18	2-3	RTPD	1	Data Input Error		Local
30Mar2017	6	1-2	RTPD	2	Software Defect	1365	Local

Corrections made through interval replacement: 73

Price Correction Report
Week of Apr 3-7, 2017

Date	HE	Interval	Market	#	Reason	Affected Location
30MAR2017	11	4-7	RTD	3	Software Defect	System
30MAR2017	15	9-12	RTD	3	Software Defect	System
01APR2017	12	11	RTD	2	Software Defect	System
01APR2017	12-14	1-4	RTPD	2	Software Defect	System
01APR2017	13	1	RTD	2	Software Defect	System
01APR2017	14	5-6	RTD	2	Software Defect	System
02APR2017	12	1-12	RTD	2	Software Defect	System
02APR2017	12-14	1-4	RTPD	2	Software Defect	System
02APR2017	13	1-2,7-12	RTD	2	Software Defect	System
02APR2017	14	1-10	RTD	2	Software Defect	System
02APR2017	15	1-3	RTPD	2	Software Defect	System
02APR2017	2	10-12	RTD	4	Data Input Error	System
02APR2017	2	4	RTPD	4	Data Input Error	System

Corrections made through market rerun: **0**

Description of Issues:

1. **Data Input Error:**
    - Invalid EIM prices due to a data input error related to capacity test.

    Prices were corrected by selective recalculation.

2. **Software Defect:**
    - Invalid prices due to a software defect related to EIM functionality.

    Prices were corrected by selective recalculation and interval replacement.

3. **Software Defect:**
    - Invalid prices due to a software defect related to RTCD functionality.

    Prices were corrected by interval replacement.

4. **Data Input Error:**
    - Invalid prices due to data input error related to incorrect Ancillary Service Requirement in the market.

    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 by replicating prices from the previous interval, consistent with CAISO Tariff section 7.7.4(3), which states that administrative pricing applies to price intervals where we have had a market disruption, and requires the price to be set "at the applicable price in the Settlement Period immediately preceding the Settlement Period in which the intervention took place." When A.S. fill is required for a RTPD run, the gap is filled with Day Ahead prices. Energy price fill of RTPD run follow the same rule as RTD market.

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

Total number of filled price intervals: 8

Date	HE	Interval	Market
30MAR2017	15	4	RTPD
30MAR2017	16	1	RTPD
30MAR2017	15	7	RTD
30MAR2017	15	8	RTD
01APR2017	1	2	RTPD
01APR2017	1	3	RTPD
01APR2017	2	2	RTPD
01APR2017	2	3	RTPD

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