California ISO

Price Correction Report
Week of Mar 27 –31, 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, **47** intervals were corrected.

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

DAM: 3/22/2017 – 3/28/2017
RTM: 3/20/2017 – 3/26/2017

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.

Corrections made through selective recalculation: 43

Date	HE	Interval	Market	#	Reason	Count of Corrected Pnode/Apnode	Affected Location
20Mar2017	13	12	RTD	2	Software Defect	3195	Local
20Mar2017	14	1-4,6,10,12	RTD	2	Software Defect	3195	Local
20Mar2017	14	11	RTD	2	Software Defect	3174	Local
20Mar2017	14	5	RTD	2	Software Defect	2274	Local
20Mar2017	14	9	RTD	2	Software Defect	2692	Local
20Mar2017	15	8	RTD	2	Software Defect	1364	Local
20Mar2017	20	3	RTD	2	Software Defect	3231	Local
20Mar2017	20	4-6	RTD	2	Software Defect	3232	Local
20Mar2017	13-14	4	RTPD	2	Software Defect	2248	Local
20Mar2017	14	3	RTPD	2	Software Defect	2274	Local
20Mar2017	15	1	RTPD	2	Software Defect	2248	Local
20Mar2017	15	2	RTPD	2	Software Defect	1394	Local
20Mar2017	15	3	RTPD	2	Software Defect	1393	Local
20Mar2017	15	4	RTPD	2	Software Defect	1364	Local
20Mar2017	20	3	RTPD	2	Software Defect	3232	Local
20Mar2017	20	4	RTPD	2	Software Defect	3198	Local
23Mar2017	9	7	RTD	1	Data Input Error	508	Local
23Mar2017	9	4	RTPD	1	Data Input Error	53	Local
26Mar2017	7	1,5	RTD	2	Software Defect	1364	Local
26Mar2017	7	11	RTD	2	Software Defect	1382	Local
26Mar2017	7	12	RTD	2	Software Defect	1380	Local
26Mar2017	7	2-4	RTD	2	Software Defect	1369	Local
26Mar2017	7	6,10	RTD	2	Software Defect	1381	Local
26Mar2017	7	7-9	RTD	2	Software Defect	1379	Local
26Mar2017	7	1	RTPD	2	Software Defect	1386	Local
26Mar2017	7	2	RTPD	2	Software Defect	1387	Local
26Mar2017	7	3	RTPD	2	Software Defect	1385	Local
26Mar2017	7	4	RTPD	2	Software Defect	1369	Local

Corrections made through interval replacement: 4

Date	HE	Interval	Market	#	Reason	Affected Location
25MAR2017	9	2-5	RTD	3	Software Defect	System

Corrections made through market rerun: 0

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Description of Issues:

1. **Data Input Error:**
   - Invalid congestion on 25601_DEVILCYN_115_24916_TAP902 _115_BR_1 _1 due to a data input error related to incorrect enforcement of the constraint.

   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.

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

   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: 6

Date	HE	Interval	Market
22MAR2017	15	11	RTD
22MAR2017	15	12	RTD
23MAR2017	21	4	RTPD

23MAR2017	21	7	RTD
23MAR2017	21	8	RTD
23MAR2017	22	1	RTPD

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