

#### 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, **2670** intervals were corrected.

#### The trade dates covered by this report are:

DAM: 11/7/2018 - 11/13/2018 RTM: 11/5/2018 - 11/11/2018

#### 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.



## **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.

Corrections made through selective recalculation: 2655

| Date       | HE        | Intervals | Market | #   | Reason                            | Number of corrected<br>Pnodes/Apnodes | Affected<br>Area |
|------------|-----------|-----------|--------|-----|-----------------------------------|---------------------------------------|------------------|
| 11/5/2018  | 7         | 1         | RTD    | 4,1 | Data Input Error, Software Defect | 437                                   | Local            |
| 11/5/2018  | 7         | 2         | RTD    | 4,1 | Data Input Error, Software Defect | 484                                   | Local            |
| 11/5/2018  | 7         | 3         | RTD    | 4,1 | Data Input Error, Software Defect | 486                                   | Local            |
| 11/5/2018  | 7         | 6         | RTD    | 4,1 | Data Input Error, Software Defect | 440                                   | Local            |
| 11/5/2018  | 7         | 7         | RTD    | 4,1 | Data Input Error, Software Defect | 445                                   | Local            |
| 11/5/2018  | 7         | 8         | RTD    | 4,1 | Data Input Error, Software Defect | 443                                   | Local            |
| 11/5/2018  | 7         | 9         | RTD    | 4,1 | Data Input Error, Software Defect | 444                                   | Local            |
| 11/5/2018  | 7         | 4-5       | RTD    | 4,1 | Data Input Error, Software Defect | 487                                   | Local            |
| 11/5/2018  | 8         | 1-12      | RTD    | 3   | Software Defect                   | 1372                                  | Local            |
| 11/5/2018  | 13        | 4-5       | RTD    | 4,1 | Data Input Error, Software Defect | 470                                   | Local            |
| 11/5/2018  | 7         | 1         | RTPD   | 4,1 | Data Input Error, Software Defect | 438                                   | Local            |
| 11/5/2018  | 7         | 3         | RTPD   | 4,1 | Data Input Error, Software Defect | 485                                   | Local            |
| 11/5/2018  | 7         | 2,4       | RTPD   | 4,1 | Data Input Error, Software Defect | 486                                   | Local            |
| 11/5/2018  | 8         | 1-4       | RTPD   | 3   | Software Defect                   | 1372                                  | Local            |
| 11/5/2018  | 13        | 3         | RTPD   | 4,1 | Data Input Error, Software Defect | 448                                   | Local            |
| 11/5/2018  | 13        | 4         | RTPD   | 4,1 | Data Input Error, Software Defect | 445                                   | Local            |
| 11/6/2018  | 8         | 1-7       | RTD    | 3   | Software Defect                   | 1372                                  | Local            |
| 11/6/2018  | 10        | 1-12      | RTD    | 3   | Software Defect                   | 944                                   | Local            |
| 11/6/2018  | 8         | 1-4       | RTPD   | 3   | Software Defect                   | 1372                                  | Local            |
| 11/6/2018  | 10        | 1-4       | RTPD   | 3   | Software Defect                   | 944                                   | Local            |
| 11/7/2018  | 8         | 12        | RTD    | 3   | Software Defect                   | 944                                   | Local            |
| 11/7/2018  | 23        | 8-9       | RTD    | 3   | Software Defect                   | 1372                                  | Local            |
| 11/7/2018  | 23        | 1         | RTPD   | 3   | Software Defect                   | 1372                                  | Local            |
| 11/8/2018  | 2         | 2-12      | RTD    | 3   | Software Defect                   | 861                                   | Local            |
| 11/8/2018  | 2         | 1-4       | RTPD   | 3   | Software Defect                   | 861                                   | Local            |
| 11/10/2018 | 18        | 5-10,12   | RTD    | 3   | Software Defect                   | 944                                   | Local            |
| 11/11/2018 | 10        | 0         | DA     | 6   | Data Input Error                  | 146                                   | Local            |
| 11/11/2018 | 11        | 0         | DA     | 6   | Data Input Error                  | 153                                   | Local            |
| 11/11/2018 | 14        | 0         | DA     | 5,6 | Data Input Error                  | 163                                   | Local            |
| 11/11/2018 | 21        | 0         | DA     | 5   | Data Input Error                  | 102                                   | Local            |
| 11/11/2018 | 22        | 0         | DA     | 5   | Data Input Error                  | 99                                    | Local            |
| 11/11/2018 | 12-13,15  | 0         | DA     | 5,6 | Data Input Error                  | 166                                   | Local            |
| 11/11/2018 | 1-7,16-17 | 0         | DA     | 6   | Data Input Error                  | 138                                   | Local            |
| 11/11/2018 | 8,18      | 0         | DA     | 5,6 | Data Input Error                  | 161                                   | Local            |
| 11/11/2018 | 9,19-20   | 0         | DA     | 5,6 | Data Input Error                  | 162                                   | Local            |
| 11/11/2018 | 15        | 1-12      | RTD    | 3   | Software Defect                   | 451                                   | Local            |
| 11/11/2018 | 15        | 1         | RTPD   | 3   | Software Defect                   |                                       | Local            |
| 11/11/2018 | 15        | 2-4       | RTPD   | 3   | Software Defect                   | 451                                   | Local            |



The range of corrected Pnode/APnode for the below trade days regarding correction number 1 is 0-33:

| 11/5/2018   7  | Date      | ected Pnode/APnode for the l | Intervals | Market | # | Reason          | Affected Area |
|--|-----------|------------------------------|-----------|--------|---|-----------------|---------------|
| 11/5/2018   9  |           |                              |           |        | _ |                 |               |
| 11/5/2018  |           | _                            |           |        | _ |                 |               |
| 11/5/2018  |           |                              |           |        | _ |                 |               |
| 11/5/2018  |           |                              |           |        | _ |                 |               |
| 11/5/2018  |           |                              |           |        | _ |                 |               |
| 11/5/2018  |           | -7-7                         |           |        | _ |                 |               |
| 11/6/2018   22   |           |                              |           |        |   |                 |               |
| 11/6/2018  |           | <del> </del>                 |           |        | _ |                 |               |
| 11/6/2018  |           |                              |           |        | _ |                 |               |
| 11/6/2018  |           | · ·                          |           |        | _ |                 | _             |
| 11/7/2018  |           |                              |           | _      |   |                 |               |
| 11/7/2018  |           | •                            |           |        |   |                 |               |
| 11/7/2018  |           |                              |           | _      |   |                 |               |
| 11/1/2018  |           | <u> </u>                     | ·         |        |   |                 |               |
| 11/8/2018  |           |                              |           | _      | _ |                 |               |
| 11/8/2018   5  |           |                              |           |        | _ |                 |               |
| 11/8/2018   5  |           |                              |           |        | - |                 |               |
| 11/8/2018  |           |                              |           |        | _ |                 |               |
| 11/8/2018   8  |           | _                            | -         | _      | _ |                 |               |
| 11/8/2018   16   |           | _                            | ·         |        | _ |                 |               |
| 11/8/2018   16   |           |                              |           | _      | _ |                 |               |
| 11/8/2018     17     2-12     RTD     1     Software Defect     Local       11/8/2018     17     1,4-9,12     RTD     2     Software Defect     Local       11/8/2018     18     3-8     RTD     2     Software Defect     Local       11/8/2018     19     1-7     RTD     1     Software Defect     Local       11/8/2018     20     2-6,10-12     RTD     1     Software Defect     Local       11/8/2018     21     6-12     RTD     2     Software Defect     Local       11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     2-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     1-6,6-15     RTD     2     Software Defect     Local       11/8/2018     1-6     1-6     RTD     2     Software Defect     Local       11/8/2018     1-6     1-7     RTPD     2     Software Defect     Local   | 11/8/2018 | 16                           | 1-11      | RTD    | _ | Software Defect | Local         |
| 11/8/2018     17     1,4-9,12     RTD     2     Software Defect     Local       11/8/2018     18     3-8     RTD     2     Software Defect     Local       11/8/2018     19     1-7     RTD     1     Software Defect     Local       11/8/2018     20     2-12     RTD     1     Software Defect     Local       11/8/2018     20     2-6,10-12     RTD     2     Software Defect     Local       11/8/2018     21     6-12     RTD     2     Software Defect     Local       11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     24-6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     6.19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     10     1,3-4     RTPD     2     Software Defect     Local   | 11/8/2018 |                              |           | _      |   | Software Defect | Local         |
| 11/8/2018   18   | 11/8/2018 | 17                           | 2-12      | RTD    | 1 | Software Defect | Local         |
| 11/8/2018     19     1-7     RTD     1     Software Defect     Local       11/8/2018     20     2-12     RTD     1     Software Defect     Local       11/8/2018     20     2-6,10-12     RTD     2     Software Defect     Local       11/8/2018     21     6-12     RTD     2     Software Defect     Local       11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     1-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     1-2     1-4     RTPD     2     Software Defect     Local       11/8/2018     1,5,18     4     RTPD     2     Software Defect     Local  | 11/8/2018 | 17                           | 1,4-9,12  | RTD    | 2 | Software Defect | Local         |
| 11/8/2018     20     2-12     RTD     1     Software Defect     Local       11/8/2018     20     2-6,10-12     RTD     2     Software Defect     Local       11/8/2018     21     6-12     RTD     2     Software Defect     Local       11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     1-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     2-4,22-24     1-12     RTD     2     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     1.0     1.4     RTPD     1     Software Defect     Local       11/8/2018     1.5     4     RTPD     2     Software Defect     Local   | 11/8/2018 | 18                           | 3-8       | RTD    | 2 | Software Defect | Local         |
| 11/8/2018     20     2-6,10-12     RTD     2     Software Defect     Local       11/8/2018     21     6-12     RTD     2     Software Defect     Local       11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     1-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     2-4,22-24     1-12     RTD     2     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     20     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-2     1-4     RTPD     2     Software Defect     Local       11/9/2018     1,5-1     4     RTPD     2     Software Defect     Local<  | 11/8/2018 | 19                           | 1-7       | RTD    | 1 | Software Defect | Local         |
| 11/8/2018     21     6-12     RTD     2     Software Defect     Local       11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     1-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     2-4,22-24     1-12     RTD     2     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     1-2     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     2     Software Defect     Local <td>11/8/2018</td> <td>20</td> <td>2-12</td> <td>RTD</td> <td>1</td> <td>Software Defect</td> <td>Local</td> | 11/8/2018 | 20                           | 2-12      | RTD    | 1 | Software Defect | Local         |
| 11/8/2018     22     4-12     RTD     1     Software Defect     Local       11/8/2018     1-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     2-4,22-24     1-12     RTD     2     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     20     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2,57,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect  | 11/8/2018 | 20                           | 2-6,10-12 | RTD    | 2 | Software Defect | Local         |
| 11/8/2018     1-4,6-15,18,21,23-24     1-12     RTD     1     Software Defect     Local       11/8/2018     2-4,22-24     1-12     RTD     2     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     20     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     1-5,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2,57,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/9/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect  | 11/8/2018 | 21                           | 6-12      | RTD    | 2 | Software Defect | Local         |
| 11/8/2018     2-4,22-24     1-12     RTD     2     Software Defect     Local       11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     12     1-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2-5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local   | 11/8/2018 | 22                           | 4-12      | RTD    | 1 | Software Defect | Local         |
| 11/8/2018     6,19     1-6     RTD     2     Software Defect     Local       11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     20     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2-5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local   | 11/8/2018 | 1-4,6-15,18,21,23-24         | 1-12      | RTD    | 1 | Software Defect | Local         |
| 11/8/2018     16     2-4     RTPD     2     Software Defect     Local       11/8/2018     20     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2,5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local <td>11/8/2018</td> <td></td> <td>1-12</td> <td>RTD</td> <td>2</td> <td>Software Defect</td> <td>Local</td>            | 11/8/2018 |                              | 1-12      | RTD    | 2 | Software Defect | Local         |
| 11/8/2018     20     1,3-4     RTPD     2     Software Defect     Local       11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2-5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local   | 11/8/2018 | 6,19                         | 1-6       | RTD    | 2 | Software Defect | Local         |
| 11/8/2018     1-24     1-4     RTPD     1     Software Defect     Local       11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2-5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local <td>11/8/2018</td> <td>16</td> <td>2-4</td> <td>RTPD</td> <td>2</td> <td>Software Defect</td> <td>Local</td>          | 11/8/2018 | 16                           | 2-4       | RTPD   | 2 | Software Defect | Local         |
| 11/8/2018     1,15,18     4     RTPD     2     Software Defect     Local       11/8/2018     2-5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local   | 11/8/2018 | 20                           | 1,3-4     | RTPD   | 2 | Software Defect | Local         |
| 11/8/2018     2-5,7,17,19,21-24     1-4     RTPD     2     Software Defect     Local       11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local  | 11/8/2018 | 1-24                         | 1-4       | RTPD   | 1 | Software Defect | Local         |
| 11/8/2018     6,8     1-2     RTPD     2     Software Defect     Local       11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local <t< td=""><td>11/8/2018</td><td>1,15,18</td><td>4</td><td>RTPD</td><td>2</td><td>Software Defect</td><td>Local</td></t<>                    | 11/8/2018 | 1,15,18                      | 4         | RTPD   | 2 | Software Defect | Local         |
| 11/9/2018     5     1-6     RTD     1     Software Defect     Local       11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local   | 11/8/2018 | 2-5,7,17,19,21-24            | 1-4       | RTPD   | 2 | Software Defect | Local         |
| 11/9/2018     5     1-7,12     RTD     2     Software Defect     Local       11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local       11/9/2018     1-4,16,18-24     1-12     RTD     1     Software Defect     Local   | 11/8/2018 | 6,8                          | 1-2       | RTPD   | 2 | Software Defect | Local         |
| 11/9/2018     6     1-5     RTD     2     Software Defect     Local       11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local       11/9/2018     1-4,16,18-24     1-12     RTD     2     Software Defect     Local       11/9/2018     5     1-3     RTPD     1     Software Defect     Local  <  | 11/9/2018 | 5                            | 1-6       | RTD    | 1 | Software Defect | Local         |
| 11/9/2018     7     1-6,11-12     RTD     1     Software Defect     Local       11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local       11/9/2018     1-4,16,18-24     1-12     RTD     2     Software Defect     Local       11/9/2018     1-4,6,8-15,19-24     1-12     RTD     1     Software Defect     Local       11/9/2018     5     1-3     RTPD     1     Software Defect     Local   | 11/9/2018 | 5                            | 1-7,12    | RTD    | 2 | Software Defect | Local         |
| 11/9/2018     7     2-6,11-12     RTD     2     Software Defect     Local       11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local       11/9/2018     1-4,16,18-24     1-12     RTD     2     Software Defect     Local       11/9/2018     1-4,6,8-15,19-24     1-12     RTD     1     Software Defect     Local       11/9/2018     5     1-3     RTPD     1     Software Defect     Local       11/9/2018     10     1-2     RTPD     2     Software Defect     Local   | 11/9/2018 | 6                            | 1-5       | RTD    | 2 | Software Defect | Local         |
| 11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local       11/9/2018     1-4,16,18-24     1-12     RTD     2     Software Defect     Local       11/9/2018     1-4,6,8-15,19-24     1-12     RTD     1     Software Defect     Local       11/9/2018     5     1-3     RTPD     1     Software Defect     Local       11/9/2018     10     1-2     RTPD     2     Software Defect     Local       11/9/2018     13     4     RTPD     2     Software Defect     Local   | 11/9/2018 | 7                            | 1-6,11-12 | RTD    | 1 | Software Defect | Local         |
| 11/9/2018     8     1-10     RTD     2     Software Defect     Local       11/9/2018     9     1-3     RTD     2     Software Defect     Local       11/9/2018     13     10     RTD     2     Software Defect     Local       11/9/2018     14     7-10     RTD     2     Software Defect     Local       11/9/2018     15     4-12     RTD     2     Software Defect     Local       11/9/2018     17     1-7,11-12     RTD     2     Software Defect     Local       11/9/2018     1-4,16,18-24     1-12     RTD     2     Software Defect     Local       11/9/2018     1-4,6,8-15,19-24     1-12     RTD     1     Software Defect     Local       11/9/2018     5     1-3     RTPD     1     Software Defect     Local       11/9/2018     10     1-2     RTPD     2     Software Defect     Local       11/9/2018     13     4     RTPD     2     Software Defect     Local   |           | 7                            |           |        | _ |                 |               |
| 11/9/2018   9   1-3   RTD   2   Software Defect   Local     11/9/2018   13   10   RTD   2   Software Defect   Local     11/9/2018   14   7-10   RTD   2   Software Defect   Local     11/9/2018   15   4-12   RTD   2   Software Defect   Local     11/9/2018   17   1-7,11-12   RTD   2   Software Defect   Local     11/9/2018   1-4,16,18-24   1-12   RTD   2   Software Defect   Local     11/9/2018   1-4,6,8-15,19-24   1-12   RTD   1   Software Defect   Local     11/9/2018   5   1-3   RTPD   1   Software Defect   Local     11/9/2018   10   1-2   RTPD   2   Software Defect   Local     11/9/2018   13   4   RTPD   2   Software Defect   Local     11/9/2018   14   2-4   RTPD   2   Software Defect   Local  |           | 8                            | -         | RTD    | 2 |                 | Local         |
| 11/9/2018   13   10   RTD   2   Software Defect   Local     11/9/2018   14   7-10   RTD   2   Software Defect   Local     11/9/2018   15   4-12   RTD   2   Software Defect   Local     11/9/2018   17   1-7,11-12   RTD   2   Software Defect   Local     11/9/2018   1-4,16,18-24   1-12   RTD   2   Software Defect   Local     11/9/2018   1-4,6,8-15,19-24   1-12   RTD   1   Software Defect   Local     11/9/2018   5   1-3   RTPD   1   Software Defect   Local     11/9/2018   10   1-2   RTPD   2   Software Defect   Local     11/9/2018   13   4   RTPD   2   Software Defect   Local     11/9/2018   14   2-4   RTPD   2   Software Defect   Local  |           |                              | _         |        | _ |                 |               |
| 11/9/2018 14 7-10 RTD 2 Software Defect Local   11/9/2018 15 4-12 RTD 2 Software Defect Local   11/9/2018 17 1-7,11-12 RTD 2 Software Defect Local   11/9/2018 1-4,16,18-24 1-12 RTD 2 Software Defect Local   11/9/2018 1-4,6,8-15,19-24 1-12 RTD 1 Software Defect Local   11/9/2018 5 1-3 RTPD 1 Software Defect Local   11/9/2018 10 1-2 RTPD 2 Software Defect Local   11/9/2018 13 4 RTPD 2 Software Defect Local   11/9/2018 14 2-4 RTPD 2 Software Defect Local  |           |                              |           |        | _ |                 |               |
| 11/9/2018 15 4-12 RTD 2 Software Defect Local   11/9/2018 17 1-7,11-12 RTD 2 Software Defect Local   11/9/2018 1-4,16,18-24 1-12 RTD 2 Software Defect Local   11/9/2018 1-4,6,8-15,19-24 1-12 RTD 1 Software Defect Local   11/9/2018 5 1-3 RTPD 1 Software Defect Local   11/9/2018 10 1-2 RTPD 2 Software Defect Local   11/9/2018 13 4 RTPD 2 Software Defect Local   11/9/2018 14 2-4 RTPD 2 Software Defect Local  |           |                              | _         |        |   |                 |               |
| 11/9/2018   17   1-7,11-12   RTD   2   Software Defect   Local     11/9/2018   1-4,16,18-24   1-12   RTD   2   Software Defect   Local     11/9/2018   1-4,6,8-15,19-24   1-12   RTD   1   Software Defect   Local     11/9/2018   5   1-3   RTPD   1   Software Defect   Local     11/9/2018   10   1-2   RTPD   2   Software Defect   Local     11/9/2018   13   4   RTPD   2   Software Defect   Local     11/9/2018   14   2-4   RTPD   2   Software Defect   Local  |           |                              |           |        | _ |                 |               |
| 11/9/2018   1-4,16,18-24   1-12   RTD   2   Software Defect   Local     11/9/2018   1-4,6,8-15,19-24   1-12   RTD   1   Software Defect   Local     11/9/2018   5   1-3   RTPD   1   Software Defect   Local     11/9/2018   10   1-2   RTPD   2   Software Defect   Local     11/9/2018   13   4   RTPD   2   Software Defect   Local     11/9/2018   14   2-4   RTPD   2   Software Defect   Local   |           |                              | _         |        |   |                 |               |
| 11/9/2018   1-4,6,8-15,19-24   1-12   RTD   1   Software Defect   Local     11/9/2018   5   1-3   RTPD   1   Software Defect   Local     11/9/2018   10   1-2   RTPD   2   Software Defect   Local     11/9/2018   13   4   RTPD   2   Software Defect   Local     11/9/2018   14   2-4   RTPD   2   Software Defect   Local   |           | <u> </u>                     | ·         |        | _ |                 |               |
| 11/9/2018     5     1-3     RTPD     1     Software Defect     Local       11/9/2018     10     1-2     RTPD     2     Software Defect     Local       11/9/2018     13     4     RTPD     2     Software Defect     Local       11/9/2018     14     2-4     RTPD     2     Software Defect     Local   |           |                              |           | _      | _ |                 |               |
| 11/9/2018   10   1-2   RTPD   2   Software Defect   Local     11/9/2018   13   4   RTPD   2   Software Defect   Local     11/9/2018   14   2-4   RTPD   2   Software Defect   Local  |           |                              |           | _      | _ |                 |               |
| 11/9/2018     13     4     RTPD     2     Software Defect     Local       11/9/2018     14     2-4     RTPD     2     Software Defect     Local  |           | <u> </u>                     |           |        |   |                 |               |
| 11/9/2018 14 2-4 RTPD 2 Software Defect Local  |           |                              |           |        |   |                 |               |
|  |           |                              | _         |        | _ |                 |               |
|  | 11/9/2018 | 1-4,6-15,19-24               | 1-4       | RTPD   | 1 | Software Defect | Local         |



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|------------|----------------------|---------------|------|-----|-----------------|-------|
| 11/9/2018  | 1-5,7-8,15-24        | 1-4           | RTPD | 2   | Software Defect | Local |
| 11/9/2018  | 6,9                  | 1-3           | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 5                    | 1-6,10-12     | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 6                    | 1-8,12        | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 8                    | 1-7           | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 9                    | 12            | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 9                    | 1-9,11-12     | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 10                   | 1-6,10-11     | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 11                   | 11            | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 12                   | 1,4,6-7,10-11 | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 14                   | 1-3,12        | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 16                   | 1-2,4-12      | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 17                   | 1-9,12        | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 18                   | 1-3           | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 18                   | 5-6,10-12     | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 19                   | 2-12          | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 19                   | 4-9           | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 20                   | 7-12          | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 20                   | 1-7,10-12     | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 21                   | 3-12          | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 22                   | 1-3,10-12     | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 23                   | 1,6-11        | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 1,10-16,21,23-24     | 1-12          | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 1-5,7,13,15,22       | 1-12          | RTD  | 2   | Software Defect | Local |
| 11/10/2018 | 2,17                 | 1-6           | RTD  | 1   | Software Defect | Local |
| 11/10/2018 | 8                    | 1-2           | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 11                   | 4             | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 12                   | 1-2,4         | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 15                   | 2-4           | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 17                   | 1-2           | RTPD | 1   | Software Defect | Local |
| 11/10/2018 | 20                   | 4             | RTPD | 1   | Software Defect | Local |
| 11/10/2018 | 24                   | 3             | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 1,10-16,19,21-24     | 1-4           | RTPD | 1   | Software Defect | Local |
| 11/10/2018 | 1-7,9-10,13-14,16-23 | 1-4           | RTPD | 2   | Software Defect | Local |
| 11/10/2018 | 2,5                  | 1-3           | RTPD | 1   | Software Defect | Local |
| 11/11/2018 | 1                    | 2-12          | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 5                    | 1-4           | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 6                    | 2-5           | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 7                    | 1-9           | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 8                    | 1-2,5         | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 9                    | 2             | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 14                   | 1-9,11-12     | RTD  | 1   | Software Defect | Local |
| 11/11/2018 | 15                   | 12            | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 17                   | 1-3,7-12      | RTD  | 1   | Software Defect | Local |
| 11/11/2018 | 1-13,15-16,18-24     | 1-12          | RTD  | 1   | Software Defect | Local |
| 11/11/2018 | 2-4,16-24            | 1-12          | RTD  | 2   | Software Defect | Local |
| 11/11/2018 | 6                    | 1-2,4         | RTPD | 2   | Software Defect | Local |
| 11/11/2018 | 8                    | 1             | RTPD | 2   | Software Defect | Local |
| 11/11/2018 | 12                   | 2-4           | RTPD | 1   | Software Defect | Local |
| 11/11/2018 | 15                   | 3-4           | RTPD | 2   | Software Defect | Local |
| 11/11/2018 | 16                   | 2-4           | RTPD | 2   | Software Defect | Local |
| 11/11/2018 | 16                   | 1-2,4         | RTPD | 1   | Software Defect | Local |
| 11/11/2018 | 1,7                  | 1-3           | RTPD | 2   | Software Defect | Local |
| 11/11/2018 | 1-11,13-15,17-24     | 1-4           | RTPD | 1   | Software Defect | Local |
| 11/11/2018 | 2-5,17-24            | 1-4           | RTPD | 2   | Software Defect | Local |
|            | •                    | •             |      | •   | •               |       |



## Corrections made through interval replacement: 15

| Date       | HE | Intervals | Market | #     | Reason                            | Affected Area |  |
|------------|----|-----------|--------|-------|-----------------------------------|---------------|--|
| 11/7/2018  | 23 | 5-7       | RTD    | 8,1   | Software Defect                   | System        |  |
| 11/8/2018  | 19 | 8-12      | RTD    | 8,1   | Software Defect                   | System        |  |
| 11/8/2018  | 20 | 1         | RTD    | 8,1   | Software Defect                   | System        |  |
| 11/9/2018  | 7  | 7-10      | RTD    | 8,2,1 | Software Defect                   | System        |  |
| 11/11/2018 | 14 | 10        | RTD    | 9,1   | Software Defect                   | System        |  |
| 11/11/2018 | 12 | 1         | RTPD   | 7,1   | Data Input Error, 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. Software Defect:

• Invalid SP-tie LMPs for several pricing locations due to a software defect impacting the GHG component of the LMP.

Prices were corrected by selective recalculation and interval replacement.

#### 3. Software Defect:

Invalid prices due to a software defect impacting EIM functionality.

Prices were corrected by selective recalculation.

#### 4. Data Input Error:

Invalid congestion due to a data input error related to switch status.

Prices were corrected by selective recalculation.

#### 5. Data Input Error:

Invalid congestion due to incorrect outage modeling.

Prices were corrected by selective recalculation.

#### 6. Data Input Error:

The constraint should not be enforced because of a local area outage.

Prices were corrected by selective recalculation.

#### 7. Data Input Error:

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

Prices were corrected by interval replacement.

#### 8. Software Defect:

Invalid prices due to a software defect impacting RTCD runs.

Prices were corrected by interval replacement.

#### 9. Software Defect:

Invalid prices due to a software issue impacting market solution.

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 distriputions.

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

### Total number of filled price intervals: 9

| Date      | HE | Intervals | Market |
|-----------|----|-----------|--------|
| 11/7/2018 | 23 | 6         | RTD    |
| 11/7/2018 | 23 | 7         | RTD    |
| 11/8/2018 | 19 | 9         | RTD    |
| 11/8/2018 | 19 | 10        | RTD    |
| 11/8/2018 | 19 | 12        | RTD    |
| 11/8/2018 | 20 | 1         | RTD    |
| 11/9/2018 | 8  | 8         | RTD    |
| 11/9/2018 | 8  | 9         | RTD    |
| 11/9/2018 | 8  | 10        | RTD    |

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