# Market Settlement User Group Agenda
## April 3, 2019
## 10:00 a.m. – 11:00 a.m. (Pacific Time)

| Web Conference Information | Conference Call Information | |
|---|---|---|
| URL: https://caiso.webex.com/meet/settlementuser | Domestic Call In: | (866) 528-2256 |
| Meeting Number: 961 854 046 | International Call In: | (216) 706-7052 |
| (Please provide your name and email address to join the meeting) | Pass Code: | 6737864 |

| Time | Topic | Presenter |
|---|---|---|
| 10:00 – 10:10 | Welcome and Introduction | Anthony Aben |
| 10:10 – 10:20 | Settlement Status Updates<br><br>■ Production<br><br>■ Release & Market Simulation<br><br>■ BPM | <br><br>Anthony Aben<br><br>Elizabeth Caldwell<br><br>Bonnie Peacock |
| 10:20 – 11:00 | Open Discussion<br><br>■ Estimation of Intertie Schedules<br><br>■ CRR 1B Updates | <br><br>Luis Cantos<br><br>Greg Ford |

# Settlements Status Updates

For Market Settlements User Group

Status Report Date: 4/3/2019

By: Market Settlements Production (MSP)

# Market Settlement User Group – 4/3 Settlements Status Updates

- Latest status on market invoices and the settlement statements publication.

- Rerun adjustment details for statement publication in the 2nd quarter of 2019 were posted on the ISO website on 3/25/2019.

- Revised TAC rates effective trading day 1/1/2019 have been implemented on 3/22/2019.

# Settlements Configuration Release, Market Simulation, and PRR

For Market Settlements User Group

Status Report Date: 4/3/2019

By: Market Settlements Design and Configuration (MSDC)

# Market Settlement User Group – 4/3 Release Updates

- March 2019 Configuration Release
  - Deployed to Prod: **3/27**
  - **Scope:**
    - Changes LMC transparency automation effective date to **5/1/19 + new PRR 1148**
    - Additional change to MSS LF resources to resolve dispute: PRR 1144
- On track for Q1 2019 Spring Configuration release
  - Release components and configuration output file publication plan was re-sent **3/14**
    - 1st draft config file: **3/28 - Published**
    - Pre-prod config file: **4/17**
    - Prod deployment: **4/24**
  - **Scope:**
    - Annual CPM Automation
    - RAAIM BD duplicate correction
    - Spin Non-Spin pre-calc correction

# Market Settlement User Group – 4/3 MSDC report

PRR/BPM status:

- **Below BPMs have been published to the BPM Library, please refer to related Market Notice:**

| Name | PRR | Effective Trade Date |
|---|---|---|
| Settlements and Billing Configuration Guide Pre-Calculation Spin Non-Spin No Pay Quantity_5.20 | 1130 | 5/1/2019 |
| Settlements and Billing Configuration Guide CC 6706 Monthly CRRBA Clearing_5.0a.doc | 1131 | 1/1/2019 |
| Settlements and Billing Configuration Guide Pre-Calculation Metered Demand TAC Area And CPM_5.6.doc | 1132 | 5/1/2019 |
| Settlements and Billing Configuration Guide CC 7891 Monthly CPM Settlement_5.1.doc | 1132 | 5/1/2019 |
| Settlements and Billing Configuration Guide CC 7896 Monthly CPM Allocation_5.2.doc | 1132 | 5/1/2019 |

- **2nd Comment Period**:   4/2/19 - 4/16/19
    - PRR1144 - Update the pre-calculation MSS Deviation Penalty Quantity configuration to properly address negative SUPP quantities for cases where Day Ahead Award is zero for MSS LF resources (Effective Date: 10/1/2014)
    - PRR1148 - Updated BPM Configuration guide for PC System Resource Deemed Delivered Energy Quantity 5.3 to ensure CISO dynamic system resources LMC quantity is not derived at twice the value it should be (Effective Date: 5/1/2019)

- Next BPM meeting for Settlements will be held on 4/23/19

California ISO

# 2018 CAISO Tariff Clarifications Filing Process - Settlements configuration and BPM updates and changes

Luis Cantos

Business Implementation Analyst

MSDC

## 2018 CAISO Tariff Clarifications Filing Process - Settlements configuration and BPM updates and changes

Updates in support of the filed Tariff Clarifications Amendment (http://www.caiso.com/Documents/Jun14_2018_TariffClarificationsAmendment_ER18-1787.pdf), Settlements impacts include:

Estimation of Intertie Schedules for the settlement of T+3B in the same manner as it does for Generation and Load Meters.

Alignment of tariff language with the NERC's BAL-002. This change fixed the neutrality issue for upward Ancillary Service Obligation.

California ISO

# Estimation of Intertie Resources

## Brief Description of the Change:

The purpose of this change was to more accurately calculate estimated amounts shown on the settlement statement published on the third business day from the relevant trading day (initial T+3B settlement statement).

The CAISO implemented two (2) changes:

First, the CAISO added a new tariff section 11.1.4(e) to specify that, in calculating settlement statement T+3B, the CAISO will estimate interchange schedule data based on total expected energy and dispatch as calculated in the real-time market and as modified by any applicable corrections to the dispatch operating point for the resource. This is the same methodology the CAISO uses to estimate meter data for metered generation under tariff section 11.1.4(a).

Note: since the CAISO does not calculate total expected energy for ETSRs, the CAISO estimates the schedules based on RTD resource awards.

Second, the CAISO re-designated existing tariff section 11.1.4(e) as new tariff section 11.1.4(f) and specifies that it will not estimate real time imbalance energy offset or allocation of real-time market bid cost uplift for purposes of calculating initial settlement statement T+3B. These two new items supplement the existing set of items that the section lists as not being estimated for purposes of the calculation. As is the case with those items listed in the existing tariff provisions, the CAISO does not have the processing time or available  data to produce sufficiently reliable estimates for the charge codes associated with the two newly listed items.

# Estimation of Intertie Resources

Reason for Change:

- The ISO wants to standardize the processing of meter-like data. By estimating Intertie resources similarly to Generation and Load, we achieve more accurate T+3B and T+12B settlement statements.

- In the effort to provide accurate settlement data during market sim, the ISO decided to use estimated data for intertie resources for the initial and the first recalculation statement.

# Estimation of Intertie Resources

Implications to SCs:

As a result of the estimation process implemented by the CAISO for the Ties; the SCs will not incur Operational Adjustment (OA) on their T+3B and T+12B settlement statement if no tag value was submitted.

On T+3B the CAISO will estimate the tag value regardless of whether the tag was submitted.

On the T+12B statement- the CAISO will use the tag values that were submitted, or else continue using the estimated value. For example -If the resource did not submit the tag or NULL tag, CAISO will still use the TEE values to estimate the tag or meter quantity for  T+12B.  By doing this, market participants will NOT see any OA charges or payments in CC6470.

If the resource has explicit tag of 0 MW on the T+12B, CAISO will use the 0 MW and will calculate the OA settlements in CC6470.

We have received disputes on T+12B as participants are expecting to see OA on their statements. These disputes will be resolved on T+55B as CAISO will not use estimated tag values. The resources that have NULL tag, the tag or meter quantity will be reflected with 0 MW and will incur OA charges or payments in CC6470 on T+55B.

# CRR Auction Efficiency 1B Update

Greg Ford

Power Systems Engineer – Development Lead

Market Ops

External Use

# CRR Settlement Issues

Issue 1) Anode shift factor missing at SLAPs and CLAPs when the effective shift factor is below 2%.

Resolution) Working as designed for trade dates 1/1/2019 through 02/28/2019.  This issue was resolved as of 3/1/2019 indirectly by applying PIME methodology to SLAP, CLAP and for any aggregate location that we extend the PIME logic.

Issue 2) POD shift factor.  For POD locations, the shift factor is not consistent with the MCC.

Resolution) CAISO will fix this issue for all the impacted trade dates from 1/1/2019.  Fix will be applied going forward no later than 4/30/2019 and dates 1/1/2019 – 4/29/2019 will be corrected per settlements processing calendar.

Issue 3) Missing shift factors for some nodes related to ITCs. When there is no scheduled energy at an ITC node in the DA market, the respective SF is not being transferred to the CRR 1B engine.

Resolution) CAISO will fix this issue for all the impacted trade dates from 1/1/2019.  Fix has been applied going forward 3/24/2019 and dates 1/1/2019 – 3/23/2019 will be corrected per settlements processing calendar.

# CRR Settlement Issues – cont'd

Issue 4) Shift factors at Generic Trading Hubs. Generic trading hub shift factor does not always match the appropriate peak/off peak value.

Resolution) CAISO will fix this issue for all the impacted trade dates from 1/1/2019. Fix has been applied going forward 3/24/2019 and dates 1/1/2019 – 3/23/2019 will be corrected per settlements processing calendar.

Issue 5) APNODEs shift factors are being unnecessarily modified by a shift factor correction post process.

Resolution) CAISO will fix this issue for all the impacted trade dates from 1/1/2019. Fix has been applied going forward 3/4/2019 and dates 1/1/2019 – 3/3/2019 will be corrected per settlements processing calendar.

Issue 6) Missing revenue data on re-run due to data transfer issues between internal applications.

Resolution) CAISO will fix this issue for all the impacted trade dates from 1/1/2019. Fix will be applied going forward no later than 4/30/2019 and dates 1/1/2019 – 4/29/2019 will be corrected per settlements processing calendar.

Issue 7) Missing revenue data on re-run due to parsing issue.

Resolution) CAISO will fix this issue for all the impacted trade dates from 1/1/2019. Fix has been applied going forward 3/4/2019. Data cleanup to be performed no later than 4/30/2019 after which dates 1/1/2019 – 3/3/2019 will be corrected per settlements processing calendar.

California ISO

# Questions?