BPM Change Management Meeting

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June 27, 2023

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• Meeting is structured to stimulate honest dialogue and engage different perspectives.

• Please keep comments professional and respectful.
Instructions for raising your hand to ask a question

• If you are connected to audio through your computer or used the “call me” option, select the raise hand icon above the chat window located on bottom right corner of the screen. **Note:** #2 only works if you dialed into the meeting.

• Please remember to state your name and affiliation before making your comment.

• If you need technical assistance during the meeting, please send a chat to the event producer.
## Agenda – BPM Change Management Meeting
### June 27, 2023

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction / Meeting Overview</td>
<td>Nicole Hines</td>
</tr>
<tr>
<td><strong>Discussion of active proposed changes:</strong></td>
<td></td>
</tr>
<tr>
<td>Managing Full Network Model</td>
<td>Vivian Liang</td>
</tr>
<tr>
<td>Generator Management</td>
<td>Jill Jordan</td>
</tr>
<tr>
<td>Outage Management</td>
<td>Abdul Mohammed-Ali</td>
</tr>
<tr>
<td>Reliability Requirements</td>
<td>Melanie Schimschal</td>
</tr>
<tr>
<td>Settlements and Billing</td>
<td>Massih Ahmadi</td>
</tr>
<tr>
<td>Market Instruments</td>
<td>Kevin Head, Michael Rugh, Jacob Fox</td>
</tr>
<tr>
<td>Market Operations</td>
<td>Michael Rugh, Guillermo Bautista Alderete</td>
</tr>
<tr>
<td>Energy Imbalance Market</td>
<td>Jacob Fox</td>
</tr>
<tr>
<td><strong>Wrap-Up and Next Steps</strong></td>
<td>Nicole Hines</td>
</tr>
</tbody>
</table>

**BPM Change Management Process**

BPM_CM@caiso.com
• Business Practice Manuals
  ➢ The purpose of BPMs is to set forth business practices that implement the ISO tariff.
  
  ➢ The ISO conducts a yearly policy initiative roadmap process to consider and rank initiatives.
    ➢ *Policy changes submitted through the PRR process will be referred to the policy initiative road map process.*

  ➢ Each subject area in a BPM is based on enabling language in the ISO tariff.
    ➢ *The PRR process cannot be used to introduce changes that are not supported by existing tariff authority.*
## Managing Full Network Model BPM

<table>
<thead>
<tr>
<th>PRR</th>
<th>PRR Title</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1513</td>
<td>Full network model scope change management process update</td>
<td>Initial</td>
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</tbody>
</table>
PRR 1513: Full network model scope change management process update

• Reason for revision
  – This revision includes the following change in Section 5.1.3:
    – Update the full network model scope change management process for the request which is submitted after the request deadline.
  – The effective date of the change will be August 1, 2023.

• Initial Comments: None
• Initial comment period expires: June 14, 2023
• Next step: Post Recommendation
<table>
<thead>
<tr>
<th>PRR</th>
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<tbody>
<tr>
<td>1512</td>
<td>Updates to battery energy storage system conversions, modification submissions, and phased generating facility clarification</td>
<td>Initial</td>
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</tbody>
</table>
PRR 1512: Updates to battery energy storage system conversions, modification submissions, and phased generating facility clarification

- **Reason for revision**
  - To align language for Battery Energy Storage System (BESS) conversions in the repowering section with language in the modification section, update the requirements for modification submissions for technical changes, and clarify Phased Generating Facility requirements. Some clean-up of section references and removal of downsizing window language.

- **Initial Comments:** None
- **Initial comment period expires:** June 14, 2023
- **Next step:** Post Recommendation
# Outage Management BPM

<table>
<thead>
<tr>
<th>PRR</th>
<th>PRR Title</th>
<th>Stage</th>
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<tbody>
<tr>
<td>1509</td>
<td>Use limit reached outage cards</td>
<td>Initial</td>
</tr>
</tbody>
</table>
PRR 1509: Use limit reached outage cards

- Reason for revision
  - Clarifications for the use limited outage cards regarding PDR and RDRR resources use.
- Initial Comments: Olivine
- Initial comment period expires: June 14, 2023
- Next step: Post Recommendation
## Reliability Requirements BPM

<table>
<thead>
<tr>
<th>PRR</th>
<th>PRR Title</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1508</td>
<td>Clarifications to new use import commitment submission and processing</td>
<td>Initial</td>
</tr>
<tr>
<td>1514</td>
<td>2024 Availability assessment hours</td>
<td>Initial</td>
</tr>
</tbody>
</table>
PRR 1508: Clarifications to new use import commitment submission and processing

- **Reason for revision**
  - Provides detailed instruction to Load Serving Entities (LSEs) to properly submit New Use Import Commitment (NUIC) templates, and explains how they are processed. There is no change to the existing procedure, but the revision helps provide clarification for the process.
  - This is an emergency PRR because it is effective immediately (5/17) and the LSEs must submit NUIC templates (starting the 17th and before the end of this month), and this clarification explains what to submit and how it is processed.

- **Initial Comments:** None
- **Initial comment period expires:** June 14, 2023
- **Next step:** Post Recommendation
PRR 1514: 2024 Availability assessment hours

- Reason for revision
  - Added availability assessment hours for 2024.
- Initial Comments: None
- Initial comment period expires: June 14, 2023
- Next step: Post Recommendation
## Settlements and Billing BPM

<table>
<thead>
<tr>
<th>PRR</th>
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<tbody>
<tr>
<td>1491</td>
<td>Updated BPM configuration guide for pre-calculation real time market net amount v5.37 to accommodate ancillary service state of charge constraint initiative</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1492</td>
<td>Created two new charge codes in accordance with the resource sufficiency evaluation enhancement phase 2 initiative</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1493</td>
<td>Updated BPM configuration guide for charge group pre-calculation system resource deemed delivered energy quantity to accommodate logical meter calculator scenarios where the electronic tag is curtailed mid-hour</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1494</td>
<td>Updated charge group pre-calculation metered subsystems deviation penalty quantity to accurately account for resources with spinning/non-spinning capacity dispatches outside contingency intervals</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1495</td>
<td>Updated multiple BPM configuration guides to accommodate market services production allocating one sided charge or payment neutrality adjustments to measured demand in charge code 8989 and charge code 8999 while also achieving revenue neutrality</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1499</td>
<td>Updated BPM configuration guide for charge code 701 forecasting service fee 5.6 to accommodate hybrid 2C initiative</td>
<td>Recommendation</td>
</tr>
</tbody>
</table>
PRR 1491: Updated BPM configuration guide for pre-calculation real time market net amount v5.37 to accommodate ancillary service state of charge constraint initiative

• Reason for revision
  – Settlement configuration changes to support Ancillary Services State of Charge Constraint initiative implementing new inputs to properly evaluate and compensate energy storage resources in Bid Cost Recovery settlement. The changes exclude resources from Real Time Market (RTM) Bid Cost Shortfall in intervals indicated by new flags from the Ancillary Service State of Charge Constraint.
  – The planned production deployment date is 7/01/2023 with a retroactive effective date of 9/20/2022.

• Recommendation Comments: None
• Recommendation comment period expired: June 14, 2023
• Next step: Post Final Decision
PRR 1492: Created two new charge codes in accordance with the resource sufficiency evaluation enhancement phase 2 initiative

- **Reason for revision**
  - The purpose of this initiative is to continue to enhance the accuracy of the Western Energy Imbalance Market (WEIM) resource sufficiency evaluation.
  - This initiative addresses remaining items from the Resource Sufficiency Evaluation Enhancements (RSEE) Phase 1 initiative as well as elements deferred from the Phase 1 policy development process. This scope is informed by analysis the CAISO performed on different aspects of the WEIM Resource Sufficiency Evaluation (RSE) that were not addressed under the RSEE Phase 1 policy development.
  - The settlements related scope for this initiative is as follows:
    - Facilitate assistance energy transfer between WEIM Balancing Authority Areas (BAA) into the WEIM BAAs that failed RSE upward test:
    - Creation of new charge code for the Assistance Energy Transfer Surcharge
    - Creation of new allocation charge code for the Assistance Energy Transfer Allocation.
  - The effective Trade Date for this change is 7/1/2023.
- **Recommendation Comments: None**
- **Recommendation comment period expired: June 14, 2023**
- **Next step: Post Final Decision**
PRR 1493: Updated BPM configuration guide for charge group pre-calculation system resource deemed delivered energy quantity to accommodate logical meter calculator scenarios where the electronic tag is curtailed mid-hour

- **Reason for revision**
  - The current Logical Meter Calculator (LMC) in System Resource Deemed Delivered Pre-Calculation (PC) is not capturing scenarios when the E-tag is curtailed mid-hour, but the Pi-Tag is non-zero. In scenarios where the e-tag is curtailed mid-hour we want to zero out the PI interval values (because energy flow on the e-tag did not occur). Otherwise, it results in the derivation an inaccurate denominator in the allocation factor equation. System Resource Deemed Delivered PC will utilize the existing Checked Out Interchange Shadow Indicator to determine if there is flow on the e-tag which will be signified by the Shadow indicator interval value being set to 1. A null or zero interval value signifies that there was no flow on the tag and as such will result in the PI interval value being zeroed out and as a result no LMC shaping occurs against it. System Resource Deemed Delivered PC is impacted.
  - The effective Trade Date for this change is 7/1/2023.

- **Recommendation Comments:** None
- **Recommendation comment period expired:** June 14, 2023
- **Next step:** Post Final Decision
PRR 1494: Updated charge group precalculation metered subsystems deviation penalty quantity to accurately account for resources with spinning/non-spinning capacity dispatches outside contingency intervals

- **Reason for revision**
  - Market Participant created a dispute where they identified an issue with their load following resources getting SPIN dispatches outside contingency intervals. During incidences like these, the energy quantity associated with the SPIN/NSPIN dispatch is not being accounted for when calculating their ISO dispatched energy.
  - The effective Trade Date for this change is 7/1/2023.

- **Recommendation Comments:** None
- **Recommendation comment period expired:** June 14, 2023
- **Next step:** Post Final Decision
PRR 1495: Updated multiple BPM configuration guides to accommodate market services production allocating one sided charge or payment neutrality adjustments to measured demand in charge code 8989 and charge code 8999 while also achieving revenue neutrality

- Reason for revision
  - MSP determined that CC 8989 and CC 8999 won't perform the allocation method the two charge codes are designed for. MSP is unable to allocate one sided charge or payment neutrality adjustments to measured demand in CC 8989 and CC 8999 while also achieving revenue neutrality.
  - Both the ICG prices derived within 8989 and the single price formula derived in 8999 design templates failed to break up each of the single prices in the ICG into two formulas. All the ICG prices featured internal summation which would have required splitting the price into two formulas on the DT. Each ICG formula will be broken into two formulas and each single formula on the DT will be split into two formulas. This will ensure revenue neutrality. CG CC 8999 Monthly Neutrality Adjustment and
  - CG CC 8989 Daily Neutrality Adjustment are impacted. The effective Trade Date for this change is 7/1/2023.

- Recommendation Comments: None
- Recommendation comment period expired: June 14, 2023
- Next step: Post Final Decision
PRR 1499: Updated BPM configuration guide for charge code 701 forecasting service fee 5.6 to accommodate hybrid 2C initiative

- **Reason for revision**
  - As part of Hybrid 2C Initiative, Hybrid Tie Generators will be able to have Forecast Fee Settlement. A change to 701 Forecasting Service Fee 5.6 was required to allow shaping of meter based on Tie Generator needs.
  - The effective Trade Date for this change is 7/1/2023.

- **Recommendation Comments:** None
- **Recommendation comment period expired:** June 14, 2023
- **Next step:** Post Final Decision
## Market Instruments BPM

<table>
<thead>
<tr>
<th>PRR</th>
<th>PRR Title</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1496</td>
<td>Updating fuel region prices</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1500</td>
<td>Open access same time information system and CAISO market results interface report changes for resource sufficiency evaluation enhancements phase 2 project</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1502</td>
<td>Clarifications to component level dispatchable flag</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1507</td>
<td>Western energy imbalance market Washington greenhouse gas enhancements</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1511</td>
<td>Clarifications regarding the use limit plan data template and opportunity costs for use-limited resources</td>
<td>Initial</td>
</tr>
<tr>
<td>1516</td>
<td>Bidding limitations for non-generating resources and default energy bid changes associated with energy storage enhancements track 1</td>
<td>Initial</td>
</tr>
</tbody>
</table>
PRR 1496: Updating fuel region prices

- **Reason for revision**
  - Western Power Trading Forum (WPTF) submits this PRR to Section C.3.2 of the CAISO’s BPM for Market Instruments. The intent of this BPM change is to ensure any changes to fuel regions used in the CAISO’s gas price calculations are updated in a timely manner such that they are able to be reflected in the market within a reasonable timeframe.

- **Recommendation Comments**: None
- **Recommendation comment period expired**: June 14, 2023
- **Next step**: Post Final Decision
PRR 1500: Open access same time information system and CAISO market results interface report changes for resource sufficiency evaluation enhancements phase 2 project

• Reason for revision
  – Outlines Open Access Same Time Information System (OASIS) and CAISO Market Results Interface (CMRI) report changes in the Resource Sufficiency Evaluation Enhancements (RSEE) Ph2 project including moving two reports from CMRI to OASIS, a new Assistance Transfer report and create a Market Bid Caps report.

• Initial Comments: Six Cities – on behalf of Cities of Anaheim, Azusa, Banning, Colton, Pasadena, and Riverside, California

• Recommendation Comments: None

• Recommendation comment period expired: June 14, 2023

• Next step: Post Final Decision
PRR 1502: Clarifications to component level dispatchable flag

- Reason for revision
  - To clarify the definition of the dispatchable flag component in relation to Hybrid Resources.
- Recommendation Comments: None
- Recommendation comment period expired: June 14, 2023
- Next step: Post Final Decision
PRR 1507: Western energy imbalance market
Washington greenhouse gas enhancements

- Reason for revision
  - Related to the Washington WEIM GHG Enhancements project which includes updated calculations for default energy bids and commitment costs for resources subject to Washington’s GHG compliance program. This is a temporary alternative solution that will remain in effect until the full functionality can be implemented (expected in Fall 2023)
  - Change will be effective 5/1/2023

- Recommendation Comments: None
- Recommendation comment period expired: June 14, 2023
- Next step: Post Final Decision
PRR 1511: Clarifications regarding the use limit plan data template and opportunity costs for use-limited resources

• Reason for revision
  – Current BPM language could be improved regarding ULPLT and Opportunity Costs regarding Use-Limited Resources
• Initial Comments: None
• Initial comment period expired: June 14, 2023
• Next step: Post Recommendation
PRR 1516: Bidding limitations for non-generating resources and default energy bid changes associated with energy storage enhancements track 1

• Reason for revision
  – To accommodate changes associated with the Energy Storage Enhancements project.
  – Emergency PRR: Effective July 1, 2023

• Initial Comments: None
• Initial comment period expires: July 19, 2023
• Next step: Post Recommendation
### Market Operations BPM

<table>
<thead>
<tr>
<th>PRR</th>
<th>PRR Title</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1497</td>
<td>Interchange tagging changes related to resource sufficiency evaluation enhancement phase 2 project</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1501</td>
<td>Updates details and requirements for hybrid dynamic limits</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1505</td>
<td>Refinements to penalty pricing improvements identified from last summer</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1510</td>
<td>Clarifications regarding use-limited resources</td>
<td>Initial</td>
</tr>
</tbody>
</table>
PRR 1497: Interchange tagging changes related to resource sufficiency evaluation enhancement phase 2 project

- Reason for revision
  - As a result of the Resource Sufficiency Evaluation Enhancements (RSEE) Project Phase 2, several changes to interchange tagging related to lower market priority are required.
  - Effective date updated as part of RSE Summer Release 7/1/23

- Initial Comments: California Public Utilities Commission (CPUC); Bonneville Power Administration (BPA); Six Cities – on behalf of Cities of Anaheim, Azusa, Banning, Colton, Pasadena, and Riverside, California

- Recommendation Comments: Salt River Project

- Recommendation comment period expired: June 14, 2023

- Next step: Post Final Decision
PRR 1501: Updates details and requirements for hybrid dynamic limits

- Reason for revision
  - This edit seeks to add additional guidance and details around Hybrid Dynamic Limits and submitting Hybrid Dynamic Limits.
- Initial Comments: Salt River Project
- Recommendation Comments: None
- Recommendation comment period expired: June 14, 2023
- Next step: Post Final Decision
PRR 1505: Refinements to penalty pricing improvements identified from last summer

• Reason for revision
  – This contains several refinements to penalty pricing as a result of issues and improvements identified from last summer performance.
  – The PRR contains adjustment to penalty parameters in the real time markets for low priority exports with and without RUC schedules, to comply with tariff section 34.12.1.
  – It also includes changes to penalties prices in the real time markets on Tagged Quantity for import and exports, EIM base scheduled import and export, and Exceptional Dispatch for Tie Generators, to ensure the intertie transmission limits are respected.
  – Effective date: May 8th, 2023

• Initial Comments: Salt River Project
• Recommendation Comments: None
• Recommendation comment period expired: June 14, 2023
• Next step: Post Final Decision
PRR 1510: Clarifications regarding use-limited resources

- **Reason for revision**
  - Current BPM language requires clarification regarding use-limited resources.
- **Initial Comments: None**
- **Initial comment period expired: June 14, 2023**
- **Next step: Post Recommendation**
## Energy Imbalance Market BPM

<table>
<thead>
<tr>
<th>PRR</th>
<th>PRR Title</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1498</td>
<td>Assistance energy transfer</td>
<td>Initial</td>
</tr>
<tr>
<td>1506</td>
<td>Western energy imbalance market Washington greenhouse gas enhancements</td>
<td>Recommendation</td>
</tr>
<tr>
<td>1508</td>
<td>Clarifications to new use import commitment submission and processing</td>
<td>Initial</td>
</tr>
</tbody>
</table>
PRR 1498: Assistance energy transfer

• Reason for revision
  – Added section introducing the Assistance Energy Transfer (AET) concept as part of the Resource Sufficiency Evaluation Enhancement (RSEE) Phase 2 Project. Assistance Energy Transfers allow WEIM entities to provide reliability benefits to balancing authority areas (BAAs) deficient in capacity or flexibility. BAAs that have voluntarily opted into receiving assistance energy transfers will also be subject to an ex-post surcharge (the “EIM Assistance Energy Transfer Surcharge”) when they fail the RSE.
  – Effective date updated as part of RSE Summer Release 7/1/23

• Initial Comments: San Diego Gas & Electric Company (SDG&E); California Public Utilities Commission (CPUC); Pacific Gas & Electric Company (PG&E); Six Cities – on behalf of Cities of Anaheim, Azusa, Banning, Colton, Pasadena, and Riverside, Southern California Edison

• Initial comment period expired: June 14, 2023
• Next step: Post Recommendation
PRR 1506: Western energy imbalance market
Washington greenhouse gas enhancements

• Reason for revision
  – Related to the Washington WEIM GHG Enhancements project which includes updated calculations for default energy bids and commitment costs for resources subject to Washington’s GHG compliance program. This is a temporary alternative solution that will remain in effect until the full functionality can be implemented (expected in Fall 2023)
  – Change will be effective 5/1/2023
• Recommendation Comments: None
• Recommendation comment period expired: June 14, 2023
• Next step: Post Final Decision
PRR 1508: Clarifications to new use import commitment submission and processing

• Reason for revision
  – Provides detailed instruction to Load Serving Entities (LSEs) to properly submit New Use Import Commitment (NUIC) templates, and explains how they are processed. There is no change to the existing procedure, but the revision helps provide clarification for the process.
  – This is an emergency PRR because it is effective immediately (5/17) and the LSEs must submit NUIC templates (starting the 17th and before the end of this month), and this clarification explains what to submit and how it is processed.
• Initial Comments: None
• Initial comment period expired: June 14, 2023
• Next step: Post Recommendation
Next BPM PRR Review Monthly Meeting: July 25, 2023 @ 11 a.m.

BPM change management process questions:
Nicole Hines
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