



# BPM Change Management Meeting

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October 23, 2018

# Agenda – BPM Change Management Meeting

## October 23, 2018

Topic	Presenter
<b>Introduction / Meeting Overview</b>	Julia Payton
<b>Discussion of active BPM proposed changes:</b> Settlements and Billing Congestion Revenue Rights Generator Interconnection and Deliverability Allocation Procedures Reliability Requirements Outage Management Managing Full Network Model Energy Imbalance Market Market Operations	Bonnie Peacock Jim McClain / Jacob Fox Phelim Tavares  Gautham Katta Gautham Katta Vivian Liang Jamal Batakji Jamal Batakji
<b>Wrap-Up and Next Steps</b>	Julia Payton

# California ISO Stakeholder Initiative Process



- 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.*

# Settlements and Billing BPM Recommendation Phase

PRR	PRR Title
1075	Updates to existing BPMs to implement commitment cost enhancements phase 3 (CCE3) initiative
1076	Settlements configuration and BPM updates to conform with changes due to the 2018 CAISO Tariff clarifications filing process
1077	Update settlement charge codes for energy storage and distributed energy resource phase 2 initiative
1078	Updates to BPM configuration guide for pre-calculation resource adequacy availability incentive mechanism related to non-generator resource regulation energy management resources and calculation of the weight factor
1079	Update settlement charge codes input description for congestion revenue rights auction efficiency phase 1A initiative
1080	Remove utility distribution company attribute from marginal congestion cost for fifteen minute market and real time dispatch
1081	Update charge code 6477 to allow for system marginal energy cost by balance authority area during administrative pricing event for valuing financial transfer

# PRR 1075 – Updates to existing BPMs to implement commitment cost enhancements phase 3 (CCE3) initiative

- **Reason for revision**

- The revisions are due to the implementation of CCE3 Initiative. Validation of use limitations is no longer required in the RAIM Precalc. The SUC MLC Precalc is also updated to remove formulas related to this removed validation.
- The ISO anticipates implementation on or about 10/24/18 in order to support a 5/1/18 effective trade date.

- **Recommendation comments**

- Anaheim, Azusa, Banning, Colton, Pasadena, and Riverside (“Six Cities”) 10/16

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

# PRR 1076 – Settlements configuration and BPM updates to conform with changes due to the 2018 CAISO Tariff clarifications filing process

- **Reason for revision**
  - Updates in support of the filed Tariff clarifications Amendment.
  - The ISO anticipates implementation on or about 10/24/18 in order to support a 11/1/18 effective trade date.
- **Recommendation comments**
  - No recommendation comments submitted
- **Recommendation comment period expired**
  - October 16, 2018
- **Next step**
  - Post final decision

# PRR 1077 – Update settlement charge codes for energy storage and distributed energy resource phase 2 initiative

- **Reason for revision**

- These are the Settlement configuration changes needed to support the Energy Storage and Distributed Energy Resources (ESDER) Phase 2 initiative. As per initiative, the goal is to lower barriers and enhance the ability of transmission grid-connected energy storage and distribution-connected resources to participate in the market. Integration of these resources help lower carbon emissions and add operational flexibility.
- The ISO anticipates implementation on or about 10/24/18 in order to support a 11/1/18 effective trade date.

- **Recommendation comments**

- No recommendation comments submitted

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

PRR 1078 – Updates to BPM configuration guide for pre-calculation resource adequacy availability incentive mechanism related to non-generator resource regulation energy management resources and calculation of the weight factor

- **Reason for revision**

- The changes are the result of a reported defect per CIDI ticket #204579.
- The RAIM Precalc was not properly calculating Day-Ahead and Real Time availability for NGR-NREM resources per Tariff sections 40.6.1.1(b)(1) and 40.6.2(e)(1).
- The original implementation of the Weight Factor failed to consider RAIM exemptions specific to Generic and/or Flex per Tariff section 40.9.2
- The planned production deployment date is 10/24/2018 with an 11/1/2016 effective date.

- **Recommendation comments**

- No recommendation comments submitted

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

# PRR 1079 – Update settlement charge codes input description for congestion revenue rights auction efficiency phase 1A initiative

- **Reason for revision**

- To support the CRR auction efficiency initiative, the common data input description, allowing for both buy and sell transactions types for CRR auction transaction has been updated. This change is described in the data input description for CC 6798 and CC 6799.
- The ISO anticipates implementation on or about 10/24/18 in order to support a 11/1/18 effective trade date.

- **Recommendation comments**

- No recommendation comments submitted

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

# PRR 1080 – Remove utility distribution company attribute from marginal congestion cost for fifteen minute market and real time dispatch

- **Reason for revision**

- This is an input mapping clean-up of an unnecessary attribute (UDC attribute) in the calculation of congestion revenues in FMM and RTD.
- The ISO anticipates implementation of the BPM changes on or about October 24, 2018, with effective date 11/1/2018.

- **Recommendation comments**

- No recommendation comments submitted

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

PRR 1081 – Update charge code 6477 to allow for system marginal energy cost by balance authority area during administrative pricing event for valuing financial transfer

- **Reason for revision**

- The current financial value transfer calculation allows only for a single global SMEC price in valuing financial transfer. However, during an administrative pricing event, no SMEC data from the market would exist. The current Tariff provisions the use of administrative pricing based on each Balancing Authority Area's OATT price and is BAA specific - sections 7.7.3, 7.7.9, and 29.7(j)(2)(D).
- The resolution is to update configuration to allow for SMEC price per BAA, so that a BAA specific administrative pricing during such event can be used.
- The ISO anticipates implementation of the BPM changes on or about October 24, 2018, with effective date 11/1/2018.

- **Recommendation comments**

- No recommendation comments submitted

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

# Settlements and Billing BPM initial Phase PRR

PRR	PRR Title
1094	Emergency: Update the pre-calculation metered sub-system deviation penalty quantity configuration to properly account for metered sub-system Load following instructed imbalance energy for an metered sub-system load following resource

PRR 1094 – Update the pre-calculation metered sub-system deviation penalty quantity configuration to properly account for metered sub-system Load following instructed imbalance energy for an metered sub-system load following resource

- **Reason for revision**

- A greater than function is updated for formulas BAResource5MMSSLFDPNonDispatchModeEnergyQuantity and BAResource5MMSSLFDPContingencyDispatchEnergyQuantity to be consistent with the business rule (retroactive effective date 10/1/2014).
- A Market Participant has entered a dispute over erroneous formula for MSS Load Following (LF) Deviation Penalty (DP) IIE where the MSS LF resource has been exceptional dispatched. Business rule 5.0 states that Exceptional Dispatch is a component to the MSS LF IIE. The proposed solution is to consume the ED quantity from PCA and use as an input to calculate Supplemental Energy in cases where MSS LF resources have been exceptional dispatched (effective date 11/1/2018).
- The ISO anticipates implementation of the BPM changes on October 24, 2018.

- **Initial comments**

- No comments submitted

- **Initial comment period expired**

- October 16, 2018

- **Next step** Post Recommendation

# Congestion Revenue Rights BPM Recommendation Phase PRRs for Discussion

PRR	PRR Title
1083	Updates due to FERC Order on congestion revenue rights 1A policy change

# PRR 1083 – Updates due to FERC Order on congestion revenue rights 1A policy change

- **Reason for revision**

- Revisions to reflect changes to source/sink bidding pairs in the action and to describe the new sell feature being implemented. CRR 1A Auction Efficiency policy initiative.

- **Recommendation comments**

- No recommendation comments submitted

- **Recommendation comment period expired**

- October 16, 2018

- **Next step**

- Post final decision

# Generator Interconnection and Deliverability Allocation BPM, Recommendation Phase PRRs for Discussion

PRR	PRR Title
1084	Updating language for repayments of reliability network upgrades with congestion revenue rights

# PRR 1084 – Updating language for repayments of reliability network upgrades with congestion revenue rights

- **Reason for revision**
  - This revision provides reference to the new clarifying language added in Section 14 of the CRR BPM.
- **Recommendation comments**
  - No recommendation comments submitted
- **Recommendation comment period expired**
  - October 16, 2018
- **Next step**
  - Post final decision

# Reliability Requirements BPM Recommendation Phase PRRs for Discussion

PRR	PRR Title
1086	Emergency: Update intra-month competitive solicitation process offer submission timeline

# PRR 1086 – Update intra-month competitive solicitation process offer submission timeline

- **Reason for revision**
  - The changes provide the ISO more time to review offers for CPM. The changes go into effect 9/10/2018.
- **Recommendation comments**
  - Pacific Gas and Electric Company 10/16
- **Recommendation comment period expired**
  - October 16, 2018
- **Next step**
  - Post final decision

# Outage Management BPM

## Initial Phase PRRs for Discussion

PRR	PRR Title
1088	Nature of Work attributes and force outages with $P_{max} < 10$

# PRR 1088 – Nature of Work attributes and force outages with $P_{max} < 10$

- **Reason for revision**
- Updates to NoW for annual use limit reached, monthly use limit reached, other use limit reached, short term use limit reached. Updates for reporting of forced outages with a  $P_{max} < 10$
- **Initial comments**
  - Southern California Edison 10/9
  - Pacific Gas and Electric Company 10/11
- **Initial comment period expired**
  - October 10, 2018
- **Next step** Post recommendation

# Managing Full Network Model BPM, Initial Phase PRRs for Discussion

PRR	PRR Title
1091	Emergency: Enhanced gas nomogram constraint formulation for Aliso Canyon

# PRR 1091 – Enhanced gas nomogram constraint formulation for Aliso Canyon

- **Reason for revision**
  - This additional language is to reflect the enhanced formulation for the gas nomograms that may be activated when the ISO call for the Aliso Canyon provisions. The enhanced formulation is adjusting the gas nomogram constraint by a factor of 100 to have it in a similar treatment to transmission constraints enforced in the market. Effective Feb 20, 2018
- **Initial comments**
  - No recommendation comments submitted
- **Initial comment period expired**
  - October 12, 2018
- **Next step**
  - Post recommendation

# Energy Imbalance Market BPM Recommendation Phase PRRs for Discussion

PRR	PRR Title
1082	Emergency: Energy imbalance market variable energy resource forecasting
1085	Energy imbalance market greenhouse gas enhancements

# PRR 1082 – Energy imbalance market variable energy resource forecasting

- **Reason for revision**
  - This is to extend the persistence forecast modeling to EIM entities.
- **Recommendation comments**
  - No recommendation comments submitted
- **Recommendation comment period expired**
  - October 16, 2018
- **Next step**
  - Post final decision

# PRR 1085 – Energy imbalance market greenhouse gas enhancements

- **Reason for revision**
  - This is due to the EIM Greenhouse Gas Enhancements policy to limit EIM participating resources' greenhouse gas bid quantity to the MW value between the EIM participating resource's base schedule and the resource's upper economic level.
- **Recommendation comments**
  - No recommendation comments submitted
- **Recommendation comment period expired**
  - October 16, 2018
- **Next step**
  - Post final decision

# Energy Imbalance Market BPM Initial Phase PRRs for Discussion

PRR	PRR Title
1090	Dynamic pseudo-tie wheeling schedules
1092	Flexible ramping sufficiency test enhancement
1093	Enhancement for calculating fifteen-minute schedules from hourly resources

# PRR 1090 – Dynamic Pseudo-Tie Wheeling Schedules

- **Reason for revision**
- This change is to provide clarity for EIM entities scheduling practices related to dynamic pseudo-tie wheeling schedules.
- **Initial comments**
  - No comments submitted
- **Initial comment period expired**
  - October 12, 2018
- **Next step**
  - Post recommendation

# PRR 1092 – Flexible Ramping Sufficiency Test Enhancement

- **Reason for revision**
  - This is part of the EIM Enhancement 2018 policy to add a configurable tolerance in the flexible ramping sufficiency test.
- **Initial comments**
  - PacifiCorp 10/3
  - NV Energy 10/12
  - Idaho Power Company 10/12
  - Bonneville Power Administration 10/12
- **Initial comment period expired**
  - October 12, 2018
- **Next step**
  - Post recommendation

# PRR 1093 – Enhancement for calculating fifteen minute schedules from hourly resources

- **Reason for revision**
- This is for an enhancement to modify the calculation logic for the Fifteen-Minute Schedules from hourly resources. The change is explained in a new section 11.3.13. Additionally, we added a clarification in section 16.2.1.1.4 in regards to Energy Transfer System Resource (ETSR) treatment of tagged quantities where EIM BAAs paring includes the ISO BAA. Effective Date: Fall 2
- **Initial comments**
  - No comments submitted
- **Initial comment period expired**
  - October 12, 2018
- **Next step**
  - Post recommendation

# Market Operations BPM

## Initial Phase PRRs for Discussion

PRR	PRR Title
1087	Generator contingency and remedial action scheme modeling
1095	Pay for performance regulation recertification process change

# PRR 1087 – Generator contingency and remedial action scheme modeling

- **Reason for revision**

- This is to enhance the Day Ahead and Real Time markets to represent constraints impacted by generator contingencies and Remedial Action Scheme (RAS) operation within the market by modeling the generation/load loss in the dispatch, and the transmission loss along with subsequent generation/load loss due to RAS operation in the dispatch.

- **Initial comments**

- No comments submitted

- **Initial comment period expired**

- October 10, 2018

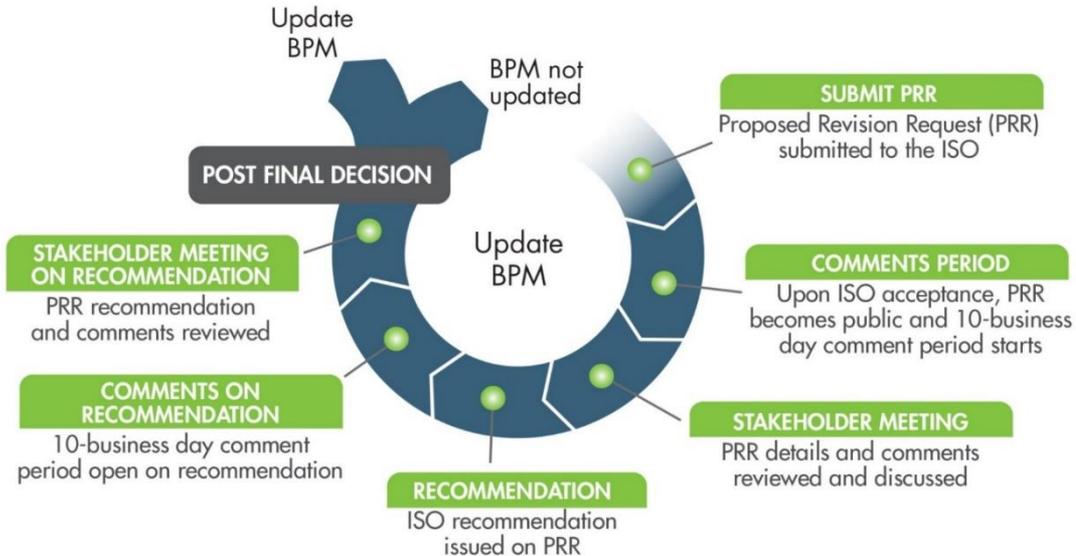
- **Next step**

- Post recommendation

# PRR 1095 – Pay for performance regulation recertification process change

- **Reason for revision**
  - This is to clarify the changes in the methodology for resource re-certification. Effective date: January 1, 2019.
- **Initial comments**
  - Southern California Edison 10/19
- **Initial comment period expired**
  - October 19, 2018
- **Next step**
  - Post recommendation

# Next BPM Monthly Meeting: Tues., November 27, 2018 @ 11 a.m.



## BPM change management Process Questions:

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