



California ISO

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# Market Simulation Structured Scenarios

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## Intertie Deviation Settlement Project

Version 1.0

6/12/2020

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## Location of Document

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

## Revision History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
5/27/2020	0.1	Initial Draft	Market Simulation Team
6/4/2020	0.2	Routed to Ken for review	Market Simulation Team
6/12/2020	1.0	Updated template and edited	Market Simulation Team

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# 1. Introduction

The objective of this document is to provide information for ISO Market Participants to participate in the Structured Market Simulation activities for the Intertie Deviation Settlement project. For the scope of this initiative and implementation, please refer to the project Business Requirements Specification (BRS) on the ISO [Release Planning](#) site.

## 2. Market Simulation Structured Scenarios

### 2.1 High Level Overview

The identified scenarios will be executed during the market simulation to demonstrate functionality for market participant understanding and validation.

### 2.2 Structured Scenarios Conditions and Setup

The following additional setup will be used by the ISO during the scenario execution.

#### Market Participant pre-Market Simulation Actions

1. Market participants will need to register their request with the ISO to participate in the Intertie Deviation Settlement market simulation via the [MarketSim@caiso.com](mailto:MarketSim@caiso.com) mailbox.

***Please submit your request and any additional information identified above by July 3, 2020.***

#### ISO pre-Market Simulation Activities

1. The ISO will set up the Market Simulation environment and publish a market simulation schedule to support the following scenarios outlined in more detail in Section 2.3 below.
2. For scenario 1 and 2, no special setup is needed. Run real-time market as normal. Market participants should select which resources they would like to see in scenarios 1 and 2.
3. Please identify up to two resources to validate the new Tariff RMR type resources.
4. For scenario 3, Market Participant must create e-Tag for their market award. CAISO operator shall perform a reliability curtailment which will reduce their e-Tag. Please let us know if you have any specific interties and/or resources and the ISO will take this into consideration prior to or during the Market Simulation call(s).

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## 2.3 Structured Scenarios

Scenario Execution Trade Date(s): <i>TBD</i>	
Scenario #1	
Description	<p>Accept a tagging value different from the resource awards and submit through ITS the tagged value different than the ADS accept value.</p> <p>This scenario is applicable to the hourly and 15-minute resources.</p>
Expected System Outcome	Market Participant should see their interchange schedule as the minimum of the HASP schedule, HASP accepted award (ADS accepted value), or E-Tag transmission profile.
Anticipated Settlement Outcome	Daily: CC 6456, CC 6458, CC 6460, CC 6470
Expected Settlement Outcome	For both hourly and 15 minute resources, participants should expect to see deviation penalty settlement in CC 6456. For hourly resources, an additional 25% penalty will be applied due to deviation between the ADS accepted value and final tagged value. All collected charges will be allocated to measure demand through CC 6458.
Details:	
ISO Actions	<p>The Market Simulation Team to:</p> <ol style="list-style-type: none"> <li>Run RTM market as normal.</li> </ol>
ISO Market Participant Actions	Schedule interchange and tag interchange higher/less than the ADS accepted value.
EIM Market Participant Actions	Not applicable to EIM Market Participants. Only applies to ISO internal BAA.

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Scenario Execution Trade Date(s): <i>TBD</i>	
Scenario #2	
Description	Scheduling Coordinator fails to submit a transmission profile by T-40. This is to test that the market does not give FMM resource in absence of the transmission profile.
Expected System Outcome	FMM (all binding interval) and RTD (all intervals) awarded schedules shall but curtailed to 0 MW.
Anticipated Settlement Outcome	Daily: CC 6456, CC 6458, CC 6460, CC 6470
Expected Settlement Outcome	For hourly resources, participants should expect to see deviation penalty settlement in CC 6456 if their final tagged (energy profile) value is different from their HASP award. For 15 minute resources participants should expect to see deviation penalty settlement in CC 6456 on the difference between their HASP schedule and 0 (transmission profile). All collected charges will be allocated to measure demand through CC 6458.
Details:	
ISO Actions	Run RTM market as normal.
ISO Market Participant Actions	Market Participant shall create self-schedule. Market Participant shall not create a Transmission Profile.
EIM Market Participant Actions	Not applicable to EIM Market Participants. Only applies to ISO internal BAA.

Scenario Execution Trade Date(s): <i>TBD</i>	
Scenario #3	
Description	If there is a reliability curtailment, the system must not levy an under/over delivery allocation charge. If there is a non-reliability curtailment, the system must levy an under/over delivery allocation charge.

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Scenario Execution Trade Date(s): <i>TBD</i>	
Expected System Outcome	For reliability curtailment MW does not contribute to the under/over delivery charge. For the non-reliability curtailment MW does contribute to the under/over delivery charge. Outcome shall be validated using the Settlement statement.
Anticipated Settlement Outcome	Daily: CC 6456, CC 6458, CC 6460, CC 6470
Expected Settlement Outcome	For hourly resources where there has been non-reliability curtailment, participants should expect to see deviation penalty settlement in CC 6456. All collected charges will be allocated to measure demand through CC 6458.
Details:	
ISO Actions	ISO Operator shall create a reliability curtailment MW which shall flow to downstream systems. ISO Operator shall create a non-reliability curtailment MW which shall flow to downstream systems.
ISO Market Participant Actions	Market Participant must create e-Tag for their market award.
EIM Market Participant Actions	Not applicable to EIM Market Participants. Only applies to ISO internal BAA.

### 3. ISO Market Simulation Contact

Please contact [MarketSim@caiso.com](mailto:MarketSim@caiso.com) if you have any questions or concerns regarding these scenarios.