Market Simulation Structured Scenarios

CRR Auction Efficiency – 1A

Version: 1.4

October 1, 2018

Location of Document

Link

Revision History

Date	Version	Description	Author
6/28/18	1.0	Initial	Trang Deluca, Adam Wohlsen
8/16/18	1.1	Reviewed by ITPM. Added comments as to what data and payloads are required for the identified scenarios	Warren Ernst
9/17/18	1.2	Trade and Auction Dates provided for each Structured Scenario	Adam Wohlsen
9/28/18	1.3	Structured Scenarios Conditions and Setup added along with sample sell and buy offers.	Adam Wohlsen
10/1/18	1.4	Extended Structured Scenario trade dates to 10/9/2018 with posting on 10/10/2018.	Adam Wohlsen

Table of Contents

1. Introduction

The objective of this document is to provide the information needed for Market Participants to participate in the market simulation structured scenarios.

2. Structured Scenario Approach

2.1 High Level Overview

These identified scenarios will be executed during the structured scenario portion of the CRR Auction Efficiency – 1A for EIM market simulation.
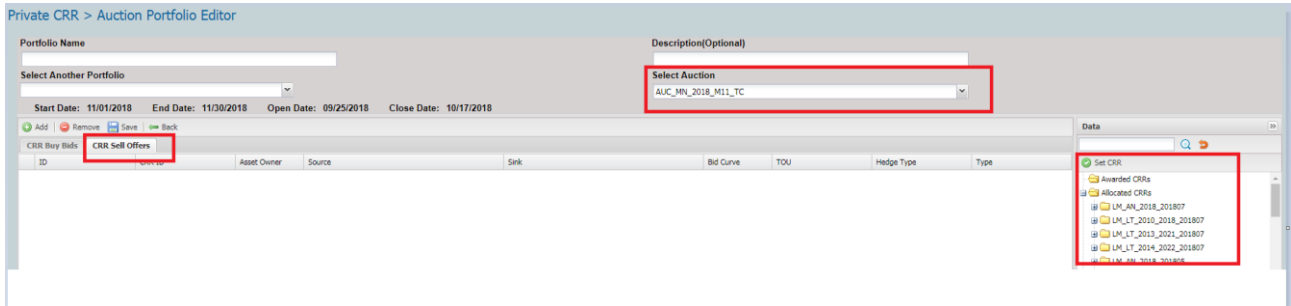
2.2 Structured Scenarios Conditions and Setup

Market participants will be able to submit Buy and Sell offers in the auction AUC_MN_2018_M11_TC. Participants may submit using either an XML upload using the updated XSD or through the bid editor. The CAISO will be using the same model that was used for the October Monthly Auction and will populate credit margin data for the effective period for any valid source sink combinations valid under the CRR1A policy changes.

To submit SELL offers to the Auction using the bid editor.

1. In the CRR application select "Add New" in the Auction Portfolio List
2. Select the tab "CRR Sell Offers"
3. **Select the Market Name AUC_MN_2018_M11_TC this will populate CRRs that are eligible to be sold in effective period of the Auction.**
4. Select "Add" on the above the "CRR Buy Bids" tab
5. Using the Data display on the right side browse and select the CRR you wish to add.
6. Select "Set CRR"

Sell Offers May also be uploaded using an XML. Below is a Sample of a Sell.

<?xml version="1.0" encoding="UTF-8"?>

<CRRDownload:bids

xmlns:CRRDownload="http://crr.caiso.org/download/xml"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://crr.caiso.org/download/xml http://ftapjbos10:8080/crr/mui/download/xml/AuctionPortfolio.xsd">

  <CRRDownload:title>

   <CRRDownload:portfolioName>SELL_SAMPLE</CRRDownload:portfolioName>

   <CRRDownload:portfolioDescription>SELL_SAMPLE</CRRDownload:portfolioDescription>

  </CRRDownload:title>

  <CRRDownload:bid>

   <CRRDownload:bidId>01</CRRDownload:bidId>

   <CRRDownload:crrId>123456789</CRRDownload:crrId>

   <CRRDownload:aoName>9999</CRRDownload:aoName>

   <CRRDownload:sourceName>SOURCE</CRRDownload:sourceName>

   <CRRDownload:sinkName>SINK</CRRDownload:sinkName>

   <CRRDownload:bidCurve>

    <CRRDownload:bidPoint>

     <CRRDownload:mw>0</CRRDownload:mw>

     <CRRDownload:pricePerMW>-500.00</CRRDownload:pricePerMW>

    </CRRDownload:bidPoint>

    <CRRDownload:bidPoint>

```
    <CRRDownload:mw>0.003</CRRDownload:mw>

    <CRRDownload:pricePerMW>500</CRRDownload:pricePerMW>

   </CRRDownload:bidPoint>

  </CRRDownload:bidCurve>

  <CRRDownload:hedgeType>OBL</CRRDownload:hedgeType>

  <CRRDownload:TOU>OFF</CRRDownload:TOU>

  <CRRDownload:classType>SELL</CRRDownload:classType>

  <CRRDownload:crrType>LSE</CRRDownload:crrType>

 </CRRDownload:bid>

</CRRDownload:bids>
```

The process to submit BUY offers only had changes if using an XML to upload a portfolio. A sample is shown below.

```
<?xml version="1.0" encoding="UTF-8"?>

<CRRDownload:bids

xmlns:CRRDownload="http://crr.caiso.org/download/xml"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://crr.caiso.org/download/xml http://ftapjbos10:8080/crr/mui/download/xml/AuctionPortfolio.xsd">

 <CRRDownload:title>

  <CRRDownload:portfolioName>BUY_SAMPLE</CRRDownload:portfolioName>

  <CRRDownload:portfolioDescription>BUY_SAMPLE</CRRDownload:portfolioDescription>

 </CRRDownload:title>

 <CRRDownload:bid>

     <CRRDownload:bidId>05</CRRDownload:bidId>

     <CRRDownload:aoName>9999</CRRDownload:aoName>

     <CRRDownload:sourceName>SOURCE</CRRDownload:sourceName>

     <CRRDownload:sinkName>SINK</CRRDownload:sinkName>
```

```
<CRRDownload:bidCurve>

  <CRRDownload:bidPoint>

    <CRRDownload:mw>0</CRRDownload:mw>

    <CRRDownload:pricePerMW>200</CRRDownload:pricePerMW>

  </CRRDownload:bidPoint>

  <CRRDownload:bidPoint>

    <CRRDownload:mw>50</CRRDownload:mw>

    <CRRDownload:pricePerMW>200</CRRDownload:pricePerMW>

  </CRRDownload:bidPoint>

</CRRDownload:bidCurve>

<CRRDownload:hedgeType>OBL</CRRDownload:hedgeType>

<CRRDownload:TOU>OFF</CRRDownload:TOU>

<CRRDownload:classType>BUY</CRRDownload:classType>

<CRRDownload:crrType>AUC</CRRDownload:crrType>

  </CRRDownload:bid>

</CRRDownload:bids>
```

2.3 Structured Scenarios

Scenario Number	CRR Auction Efficiency – 1A – Auction Date (9/26/2018 – 10/9/2018)	
1	Description	Verify that participants can only bid on valid source sink locations and combinations
	ISO Actions	ISO will make available the list of valid source sink locations and combinations
	EIM Market Participant Actions	N/A
	ISO Market Participant Actions	ISO Market Participants to submit portfolio/bids to valid source sink locations
	Expected Outcome	Valid source sink pairs are accepted; invalid source sink pairs are rejected
	Anticipated Settlement Outcome	N/A

Scenario Number	CRR Auction Efficiency – 1A – Auction Date (9/26/2018 – 10/9/2018)	
2	Description	CRR participants are able to submit sell bids
	ISO Actions	ISO will open auction market to allow bidders to submit sell offers
	EIM Market Participant Actions	N/A
	ISO Market Participant Actions	Market participants to submit sell offers using appropriate bid curve formulation
	Expected Outcome	Participants submitting sell offers that pass all appropriate validations will get an accept and any bids that do not pass any of the validations will be rejected
	Anticipated Settlement Outcome	N/A

Scenario Number	CRR Auction Efficiency – 1A – Auction Date (9/26/2018 – 10/9/2018)	
3	Description	CAISO to run market and will post auction market on 10/10/2018
	ISO Actions	Auction market will be cleared and results published; Auction market results will include an accepted sell offer
	EIM Market Participant Actions	N/A
	ISO Market Participant Actions	Download and validate CRR auction results
	Expected Outcome	Participants will be able to validate cleared awards and settled accordingly
	Anticipated Settlement Outcome	Charge Code: 6798

3. ISO Market Simulation Contact

Please contact MarketSim@caiso.com if you have any questions or concerns regarding these structured scenarios.