



# Member Testing for TCR release 3.1 – Test Approach

June 6, 2018

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## Revision History

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Date or Version Number	Author	Change Description	Comments
<b>0.1</b>	Dendy Collier/Micha Bailey	Initial Draft	
<b>1.0</b>	Dendy Collier/Micha Bailey	Initial posted version	

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## **Overview**

TCR release 3.1 is a member-impacting release containing two major enhancements to the system, including API changes, that will require training for members and testing by members.

## **Test Objectives**

This document is intended for Southwest Power Pool Market Participants (MPs), and provides instructions and information to aid in preparing and executing MP testing for the iHedge 3.1 Project. This release contains the following enhancements:

- **(Enhancement A) RR203 – Adding a Second Step to the Monthly ARR Allocation**  
MPs will have the opportunity to add a second set of nominations in each monthly ARR Allocation.
- **(Enhancement B) LTCR/ILTCR/ARR Nominations publicly posted to TCR MUI**  
SPP will begin posting all LTCR/ILTCR/ARR nominations to the TCR MUI in the public download portion of the TCR MUI 6 months after the respective market.

The purpose of MP testing is to validate Participant systems, processes, and staff are able to operate in alignment with Integrated Marketplace Protocols. MP testing serves as the Participant integration test stage. By simulating production activities, MP testing will validate Participants and Participant systems can successfully interact with SPP systems, processes and staff. MP testing will be conducted in the Member Testing Environment (MTE), in order to efficiently test and deploy the integrated systems solution for production.

## **Approach**

MP testing will be held from July 16, 2018, through August 24, 2018. MP testing will consist of performing the following activities/scenarios:

- **RR203 – Adding a Second Step to the Monthly ARR Allocation**
  - Uploading ARR portfolios via TCR MUI APIs (optional)
  - Downloading ARR awards Via TCR MUI APIs (optional)
- **LTCR/ILTCR/ARR Nominations publicly posted to TCR MUI**

MPs are responsible for creating transactional data for the System, including all Nominations for the Monthly ARR Allocation. SPP will not create additional Nominations. Any MP that does not have Candidate ARRs does not need to participate in MP testing at this time.

## Testing Scope

### Components in Scope

- Monthly ARR Allocation
- iHedge® System (TCR MUI)
  - This is the system that MPs will use to engage in the Monthly Allocation.
  - System Components
    - iHedge®
    - MUI
    - API applications installed on server(s)
- iHedge® System (TCR MUI)
  - This is the system where MPs will be able to download historical LTCR/ILTCR/ARR nomination data reports.

### Components Out of Scope

The following systems are out of scope:

- LTCR Allocation, Annual ARR Allocation, Annual TCR Auction, Monthly TCR Auction and Secondary Market
- Settlements
  - Settlements is a downstream system from the Congestion Hedging Market to settle awarded ARRs and TCRs in conjunction with the Day-Ahead market.
  - LTCRs, ARRs, and TCRs awarded during MP testing will not be settled in testing. This data will not be stored for settlements.
- Portal
  - The Portal is the interface by which MPs will access the various Integrated Marketplace applications.
  - The Portal is also needed for authentication of MP access to Marketplace Systems.
  - Data: MPs will be responsible for setting up their users through their LSA.
  - MPs will go through the Portal to get to the TCR MUI with the use of a digital certificate.

## **Test Schedule**

The table below provides the test schedule for TCR 3.1 member testing.

Date	Responsible Party	Action
<b>June 6, 2018</b>	SPP	SPP Publish Testing Materials
<b>June 20, 2018</b>	SPP/Members	Liaison Testing Kick-Off Call and Walk-Through of System Changes ( <a href="#">register here</a> )
<b>July 16, 2018</b>	Members	Member Testing Begins
<b>July 23, 2018</b>	SPP/Members	Testing Checkpoint Liaison Call ( <a href="#">register here</a> )
<b>August 2, 2018</b>	SPP/Members	Testing Checkpoint Liaison Call ( <a href="#">register here</a> )
<b>August 24, 2018</b>	Members	Member Testing Complete

## **Test Preparation**

Prior to the kick-off meeting, SPP will publish the following materials to the **CWG Project Documentation** area of spp.org for members' reference and use in test preparation:

- SPP TCR MUI User Manual in [Future UI Guides](#)
- Updated Job Aid [TCR Release 3.1 project folder](#) (to be posted by 6/18)
- TCR 3.1 Test Cases [TCR Release 3.1 project folder](#)
- Final TCR 3.1.0 Tech Specs in [Future Marketplace Tech Specs](#)

Member liaisons responsible for testing should review the materials before the kick-off meeting, in case there are any questions that can be addressed at the time of the walk-through.

## **Test Execution**

The member test execution window for TCR 3.1 functionality in MTE is July 16, 2018 – August 24, 2018. Following are the details needed for test execution.

- Tests will be performed in the [MTE Marketplace Portal](#).

To complete testing:

1. Download a copy of the TCR 3.1 **Test Cases** spreadsheet from the **CWG Project Documentation** area of spp.org in the [TCR Release 3.1 project folder](#).
2. Execute the tests based on the directions within each section or scenario, and compare to the expected results. Refer to the SPP TCR MUI User Manual in [Future UI Guides](#), as needed.
3. As you complete the tests, document results as Pass, Fail, or Not Applicable, noting any Comments as necessary.
4. Once testing is complete, return your completed spreadsheet to your SPP Customer Relations Representative through [SPP Request Management System \(RMS\)](#).

## **Testing Timeline / Details**

- Market Testing
  - Process conducted in accordance with Protocols 58.a sections 5.3. at this link: [SPP Governing Documents](#).
  - Schedule of Activities as follows:

Step	MP Testing Activity	SPP Activity	MP Activity	Start Date	End Date
<b>Enhancement A - Adding a Second Step to the Monthly ARR Allocation</b>					
1	<b><u>Download Monthly ARR Allocation Model (Optional)</u></b>		X	7/16/2018	7/16/2018
2	<b><u>ARR nomination window</u></b>		X	7/17/2018	7/24/2018
<b>3 <u>Monthly ARR Allocation</u></b>					
	Perform SFT	X		7/25/2018	7/27/2018
	Post Results	X		7/30/2018	7/30/2018
	Review Results		X	7/30/2018	8/3/2018
<b>Enhancement B - LTCR/ILTCR/ARR Nominations publicly posted to TCR MUI</b>					
4	<b><u>Download historical LTCR/ILTCR/ARR Allocation nominations</u></b>				
	Post Results	X		7/16/2018	7/16/2018
	Review Results		X	7/16/2018	8/3/2018

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## **Important Cutoff Dates**

7/24/2018 – ARR Monthly Nomination window ends.

## **Communication Plan**

The following section describes communication methods through which members and SPP will interact throughout TCR 3.1 testing.

### **General Information and Inquiries**

- Submit all inquiries through the [SPP Request Management System](#) (RMS) using the “Project Inquiries” from the Quick Pick dropdown menu, then select “TCR Release 3.1” from the Subtype 1 dropdown menu.
- For mass or immediate communications that need to be sent from SPP to members or liaisons, outreach will be through the CWG exploder and liaison e-mail distribution list.

### **Issue Reporting**

For errors or unexpected results that occur during test execution, which require SPP troubleshooting or intervention, please provide error steps and details through [SPP Request Management System](#) RMS using the “Project Inquiries” from the Quick Pick dropdown menu, then select “TCR Release 3.1” from the Subtype 1 dropdown menu.

### **Testing Checkpoint Meetings**

The testing checkpoint meetings will be used to monitor testing progress, Pass/Fail status, and overall fulfillment of member testing objectives. Meetings will be via WebEx on the following dates:

- Monday, July 23, 2018, at 3:00 PM CDT (click [here](#) to register)
- Thursday, August 2, 2018, at 2:00 PM CDT (click [here](#) to register)

### **Exit Criteria**

Member Testing will be considered complete when the following exit criteria are met:

- Testing window has closed, and there are no unresolved critical or high defects



## **Supporting Documents**

The following table provides a list of supporting documents for TCR 3.1 member testing.

Document Name	Document Location
<b>TCR MUI User's Guide</b>	CWG Reference Documents > <a href="#">Future UI Guides</a>
<b>TCR 3.1 Member Test Cases</b>	CWG Project Documentation > <a href="#">TCR Release 3.1</a>
<b>TCR 3.1 MIPO</b>	CWG Project Documentation > <a href="#">TCR Release 3.1</a>
<b>TCR 3.1 Job Aid (to be posted by 6/18)</b>	CWG Project Documentation > <a href="#">TCR Release 3.1</a>
<b>TCR 3.1 Member Test Approach</b>	CWG Project Documentation > <a href="#">TCR Release 3.1</a>

## **Acronyms**

The following table describes key acronyms used in this document.

Acronym	Description
<b>CWG</b>	Change Working Group
<b>MTE</b>	Member Test Environment
<b>MIPO</b>	Member Impacting Project Overview
<b>MP</b>	Market Participant
<b>RMS</b>	Request Management System
<b>SPP</b>	Southwest Power Pool, Inc.