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# End-to-End Testing: Test Scenario 21 – Seal Constraint

Version 2.0

January 20, 2025



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# 1. Introduction

This document provides an overview of **Test Scenario 21: Seal Constraint** under the End-to-End Testing phase of the Market Renewal Program.

This document includes the following information:

- a short description of the test scenario as it relates to Market Rules Chapter 0.7 s.7.5 and Market Manual Part 0.4.1 s.2.1,
- out of scope items and activities during this test execution,
- the resource and participation types that are recommended to execute this test scenario,
- key dates for impacted Market Participants, and
- the test cases along with the steps that users will execute to verify this test scenario.

## 2. Scenario Description

Market Participants with dispatchable resources can test the impacts of seal constraints on their operational and settlements information. Market Participants will communicate with the IESO through email to determine which resource they would like to have the constraints applied to.

Market Participants will verify the results by reviewing the operational data in the form of dispatch reports, as well as settlement invoices.

## 3. What is out of scope for this test scenario?

There are no out of scope steps in the execution of this test scenario.

## 4. Impacted Participation Types

This test scenario is recommended for the following participation types:

- Dispatchable Generators,
- Dispatchable Electricity Storage Participants as a Load and as a Generator

## 5. Key Dates for Market Participants

This scenario will be simulated under Week 1 of the End-to-End Testing Phase:

- This scenario will be simulated on **January 21, 2025** to **January 22, 2025**.
- Market Participants will notice the impacts of this test scenario on the preliminary settlement statements and data files that are generated on **January 29, 2025**, and final settlement statements and data files that are generated on **February 5, 2025** for the **January 21, 2025** trade date.
- Market Participants can provide alternative measurement data from **January 30, 2025 to January 31, 2025** for this test scenario.

## 6. Test Case(s) under Test Scenario 21

### Prerequisites:

1. Valid login credentials for EMI/MIM, Online IESO, IESO Confidential Reports Site, and Dispatch Services
2. Market Participant provided the following details to the IESO in advance:
  - Resource
  - Time
  - Constraints type (SEAL)
3. Standing data is present in EMI/MIM for the given resource.
4. If the "RTEM" data is being submitted by the following resource types: Non-Quick Start (NQS) Other, Combustion Turbine (CT) Pseudo-Unit (PSU), Steam Turbine (ST) PSU, CT Non-PSU, ST Non-PSU, then the Daily Dispatch Data (DDD) for the corresponding participant, delivery date, and resource should be present in the system.

### Test Case S21-TC01 | Dispatchable generator resources request for constraint due to SEAL and are able to verify its impact on the settlement statements.

| Test Step # | Test Step Description   | Test Step Expected Result   |
|-------------|---|---|
| 1           | Market Participant submits energy offer RTEM dispatch data through EMI or MIM after the day-ahead market restricted window (DA_RESTRICTED).   | Dispatch data submission is processed successfully.   |
| 2           | Once the pre-dispatch run is completed, navigate to the following path in the IESO Confidential Reports Site:<br>Your Files > private > PredispSchedules2 > {MP_Name}<br><br>Open the latest xxxxxPredispSchedules2xxx.xml that is generated. | Market Participant can observe their constraint resource schedule in Pre-dispatch Schedules Report. |
| 3           | MP receives dispatches in Dispatch service application.   | MP is able to verify that the dispatches align as expected in the Dispatch Service application.     |

| Test Step # | Test Step Description  | Test Step Expected Result   |
|-------------|--|---|
| 4           | <p>After the real-time run for the relevant Interval, navigate to the following path on the IESO Confidential Sandbox Reports Site:<br/>Your Files &gt; private &gt; ENGYOPRVRealtimeSchedules5Min &gt; {MP_Name}</p> <p>Open the latest xxxxxENGYOPRVRealtimeSchedules5Min.xml that is generated.</p> | <p>1) MP is able to observe their constraint 5-Minute Energy and Operating Reserve Schedule Report for the interval.</p> <p>2) MP is able to view the reason code 'SEAL' in the report.</p>             |
| 5           | <p>After the real-time run for the relevant hour, navigate to the following path on the IESO Confidential Sandbox Reports Site:<br/>Your Files &gt; private &gt; ENGYOPRVRealtimeDispatch &gt; {MP_Name}</p> <p>Open the latest xxxxxENGYOPRVRealtimeDispatch.xml that is generated.</p>               | <p>1) MP is able to view their constraint dispatches for the hour in the Real-Time Energy and Operating Reserve Dispatch Report.</p> <p>2) MP is able to view the reason code 'SEAL' in the report.</p> |
| 6           | <p>In the IESO Confidential Sandbox Reports Site, MP is able to download the preliminary and final settlement statements along with the data files for the affected trade date of this test case.</p>  | <p>MP is able to download the preliminary and final settlement statements and associated data files from the IESO Confidential Sandbox Reports Site.</p>  |
| 7           | <p>Review settlement statements for applicable charges and calculations.</p>   | <p>Market Participant to verify that only applicable charges/payments are present in the settlement statements.</p>   |
| 8           | <p>Review settlement statements for non-applicable charges and calculations.</p>   | <p>Market Participant is able to verify all non-applicable charges/payments are not present in the settlement statements.</p>   |
| 9           | <p>Review settlement statements for calculation accuracy.</p>  | <p>Charges/payments are accurately calculated.</p>  |



## Additional Resources

- [Market Rules Chapter 0.7 | System Operations and Physical Markets](#)
- [Market Manual 0.4.1- Submission of Dispatch Data in RT Energy and OR Markets \(formerly 4.2\)](#)

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