

Outage Management Redesign – Market Trial Test Plan

Issue: 1.0

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1. Introduction

1.1 Purpose

This test plan describes the test execution criteria for the Outage Management Redesign's Market Trial test phase for all Market Participants.

1.2 Scope

This test plan defines the following:

- Roles and responsibilities;
- Test Schedule;
- Test Scenarios and Cases;
- Managing issues during testing.

1.3 Out of Scope

The following has been deemed out of scope for this document:

- Integration testing of other internal system within each organization.
- Detailed test steps per test case (a detailed test scheduled with test cases is available in a separate spreadsheet that accompanies this test plan)

1.4 Assumptions and Limitations

Dedicated testers from IESO will be available for the duration of the testing period to assist with test execution and answer any questions Market Trial participants may have. See Section 4 for a list of IESO testers, their contact information and the test application they are supporting.

– End of Section –

2. Test Strategy

2.1 Roles and Responsibilities

Table 1-1: Roles and Responsibilities

Group	Responsibilities
Market Participants	<ul style="list-style-type: none"> • Perform the test cases outlined in Section 3.0 and record the corresponding results in the test case spreadsheet that accompanies this test plan; and • Notify the IESO of any critical defects (i.e. an inability to execute a test case) as soon as possible.
IESO	<ul style="list-style-type: none"> • Write test cases • Monitor Market Trials and support Market Participants with test execution as needed; • Fix defects as soon as possible.

2.2 Test Duration

Market Trials are expected to take place over a two to three week period as per the schedule outlined in Section 2.3 below.

2.3 Test Schedule

Table 2-1: Test Schedule

Day	Test Scenarios per Day
Mon Aug 8 to Thu Aug 11	Online IESO Access Roles and Permissions for Outage Management
	Market Participants test access and/or connectivity to IESO's outage management system Web Client and/or Web Service (i.e. API)
Fri Aug 12	Weekly Advance Approval Process (Submission)
Mon Aug 15 to Fri Aug 19	Weekly Advance Approval Process (Coordination & Assessment)
	3 Day Advance Approval Process (Submission, Coordination and Assessment)
	1 Day Advance Approval Process (Submission, Coordination and Assessment)
	Public and Private Reports (Verify publication and timing; View Report Information)

Day	Test Scenarios per Day
Mon Aug 22 to Fri Aug 26	Real Time Process (Implementation and Completion of 3 Day and 1 Day Advance Approved Outages)
	Public and Private Reports (Verify publication and timing; View Report Information)
	Miscellaneous
Mon Aug 29	Real Time Process (Implementation and Completion of Weekly Advance Approved Outages)
Mon Aug 30 to Tue Aug 31	Miscellaneous

2.4 Test Case Status

The following test case statuses will be used during Market Trials.

Table 2-2: Test Case Status

Test Status	Test Status Description
Fail	The actual results and the expected results are different, meaning that a defect has been detected.
Pass	The actual results and the expected results are the same, meaning that the test case has passed.

Market Trials participants are able to record their test results and any corresponding comments in the test case spreadsheet that accompanies this test plan.

– End of Section –

3. Test Execution

3.1 Test Scenarios

The test cases described in Section 3.2 are grouped into the following test scenarios in order to help categorize cases into common areas and facilitate test execution.

Table 3-1: Test Scenarios

No.	Description
1	Online IESO Access Roles and Permissions
2	Weekly Advance Approval Process
3	3 Day Advance Approval Process
4	1 Day Advance Approval Process
5	Real Time Process
6	Public Reports
7	Private Reports
8	Miscellaneous

3.2 Test Cases by Scenario

3.2.1 Online IESO Access Roles and Permissions for Outage Management

ID No.	Test Case Name	Responsible Party
1	Grant Outage Submitter Contact Roles	All Market Trial Participants
2	Grant Outage Viewer Contact Roles	All Market Trial Participants
3	View Equipment Criticality and Outage Reporting Requirements	All Market Trial Participants
4	Grant Third-Party Viewership	All Market Trial Participants
5	Associate Facility Contact with Control Centre	All Market Trial Participants
6	Update Late Notification List (for late implementation of outages)	All Market Trial Participants
7	Confirm Web Client/Web Service Access	All Market Trial Participants

3.2.2 Weekly Advance Approval Process

ID No.	Test Case Name	Responsible Party
1	Submit conflicting and non-conflicting planned Outages with Critical equipment before the submission deadline of Fri, Aug 12 at 16:00	Only Market Trial Participants with equipment rated as Facility Class 1 (i.e. Critical)
2	Submit planned Outages with Non Critical or Low Impact equipment with Weekly AA flag set before the submission deadline of Fri, Aug 12 at 16:00	All Market Trial Participants
3	View Planned outages that must be assessed during current Study Period	All Market Trial Participants

3.2.3 3 Day Advance Approval Process

ID No.	Test Case Name	Responsible Party
1	Submit outages that start Mon Aug 22 with Non Critical or Low Impact equipment before the submission deadline of Mon, Aug 15 at 16:00	All Market Trial Participants
2	Submit outages that start Mon Aug 22 and are eligible for Auto Advance Approval that does NOT qualify for Final Approval in Advance (FAA) before or after the submission deadline of Mon, Aug 15 at 16:00.	All Market Trial Participants
3	View Planned outages that must be assessed during current Study Period	IESO and All Market Trial Participants
4	Submit Urgent outages that start Mon Aug 22 with Critical or Non Critical equipment after the submission deadline of Mon Aug 15 at 16:00	All Market Trial Participants
5	Submit Opportunity outages that start Mon Aug 22 with Critical or Non Critical equipment after the submission deadline of Mon Aug 15 at 16:00	All Market Trial Participants
6	Manage any Urgent outages submitted after the submission deadline	IESO
7	Manage any Opportunity outages submitted after the submission deadline	IESO
8	Coordinate/Negotiate outages with market participants	IESO, All Market Trial Participants
9	Advance Approve outages and confirm receipt	IESO, All Market Trial Participants
10	Reject outages, provide rationale and confirm receipt.	IESO, All Market Trial Participants

3.2.4 1 Day Advance Approval Process

ID No.	Test Case Name	Responsible Party
1	Submit outages that start Mon Aug 22 with Low Impact equipment before the deadline of Thurs, Aug 18 at 16:00	All Market Trial Participants that have equipment defined as low impact
2	Submit outages that start Mon Aug 22 and are eligible for Auto Advance Approval that ALSO qualifies for Final Approval in Advance (FAA) before the submission deadline of Thurs, Aug 18 at 16:00.	All Market Trial Participants; Note: MPs may opt out if they have already completed this test in the 3 day AA process
3	Submit outages that start Mon Aug 22 with Critical or Non Critical equipment and low impact outage attributes before the submission deadline of Thurs, Aug 18 at 16:00	All Market Trial Participants
4	View Planned outages that must be assessed during current Study Period	IESO and All Market Trial Participants; Note: MPs may opt out if they have already completed this test in the 3 day AA process
5	Advance Approve outages and confirm receipt	IESO and All Market Trial Participants; Note: MPs may opt out if they have already completed this test in the 3 day AA process
6	Reject outages, provide rationale and confirm receipt	IESO and All Market Trial Participants; Note: MPs may opt out if they have already completed this test in the 3 day AA process

3.2.5 Real Time Process

ID No.	Test Case Name	Responsible Party
1	Confirm eligible outages are flagged for Final Approval in Advance (FAA) and Review / Validate outages with FAA	IESO, All Market Trial Participants
2	Revoke FAA as required and notify market participant (manual notification), confirm receipt	IESO, All Market Trial Participants
3	Revoke Advance Approved outages and confirm receipt	IESO, All Market Trial Participants
4	Final Approve outages with Advance Approval	IESO
5	Implement outages and confirm with the IESO	All Market Trial Participants
6	Recall Implemented outages, confirm receipt	IESO
7	Send late to start notifications	IESO
8	Submit Forced outages	All Market Trial Participants
9	Submit Urgent outages	All Market Trial Participants; Note: MPs may opt out if they have already completed this test in the 3 day or 1 Day AA process.
10	Submit Opportunity outages	All Market Trial Participants; Note: MPs may opt out if they have already completed this test in the 3 day or 1 Day AA process.
11	Final Approve Urgent and Opportunity outages	IESO
12	Reject Opportunity outages	IESO

3.2.6 Public Reports

ID No.	Test Case Name	Responsible Party
1	Verify publication and timing of Public Transmission Outage Report (Day 0)	All Market Trial Participants
2	View Public Transmission Outage Report (Day 0)	All Market Trial Participants
3	Verify publication and timing of Public Transmission Outage Report (Day 1-30)	All Market Trial Participants
4	View Public Transmission Outage Report (Day 1-30)	All Market Trial Participants
5	Verify publication and timing of Public Transmission Outage Report (Day 31-90)	All Market Trial Participants
6	View Public Transmission Outage Report (Day 31-90)	All Market Trial Participants
7	Verify publication and timing of Public Transmission Outage Report (Day 91-180)	All Market Trial Participants
8	View Public Transmission Outage Report (Day 91-180)	All Market Trial Participants
9	Verify publication and timing of Public Transmission Outage Report (Day 181-730)	All Market Trial Participants
10	View Public Transmission Outage Report (Day 181-730)	All Market Trial Participants

3.2.7 Private Reports

ID No.	Test Case Name	Responsible Party
1	View Private Outage Planning Guideline Report	Select Market Trial Participants that have equipment included in guidelines Note: IESO will contact these participants individually and direct them to the applicable report.

3.2.8 Miscellaneous

ID No.	Test Case Name	Responsible Party
1	Submit additional Planned outages eligible for Auto Advance Approval	All Market Trial Participants
2	Submit any outage with conflicting constraint codes.	All Market Trial Participants
3	Submit any outage that conflicts with a planning guideline and provide conflict rationale.	Only Market Trial Participants who have received the planning guideline should participate
4	Resubmit an outage request from Submitted Status	All Market Trial Participants
5	Cancel an outage request from one of the available statuses (i.e. Submitted, Advance Approved etc.)	All Market Trial Participants
6	Place an outage request into the Draft status from applicable IESO statuses.	All Market Trial Participants
7	View Third Party outages on equipment for which Third party viewership was received.	All Market Trial Participants Note: This test case is not mandatory as Third Party Viewership is an optional feature at the discretion of a Market Participant.
8	Other cases identified ad-hoc as required during the testing period on a time permitting basis.	All Market Trial Participants and IESO

– End of Section –

4. Market Trial Participants

4.1 Market Trial Participants

Company	Tester(s)
Brighton Beach Power	Little, Dave
Capital Power Corporation	Villiger, Kurtis
Capital Power Corporation	Ho, Monica
Enbridge Inc.	Jayaraman, Jay
Emera Energy	Turner, Drew
Emera Energy	MacDonald, Brad
Emera Energy	Ferguson, David
Goreway Station Prtnrshp	Baroskov, Juri
Great Lakes Power	Alton, Tiana
Hydro One	Molyneaux, David
Northland Power Inc.	Pichette, Steven
Ontario Power Generation	Maharaj, Rabee
TransAlta	Nguyen, Thanh
TransAlta	MacIntyre, Glenn
TransCanada Energy Ltd.	Luthra, Amit

4.2 IESO Testers

Application	Name	Phone	Email
On-line IESO; Public & Private Reports	Candida D'Costa	905-855-6425	candida.dcosta@ieso.ca
Outage Management System	Josh Pembleton	905-855-6172	josh.pembleton@ieso.ca