



Market Trials

Enhanced Day-Ahead Commitment (EDAC) Market Trials Test Plan

EDAC Issue 0.2

This document provides the Market Trials Test Plan for the Enhanced Day-Ahead Commitment Process (EDAC).

EDAC DRAFT

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EDAC DRAFT

1. Introduction

1.1 Purpose

The purpose of this document is to describe the objectives, scope, approach and focus of the Market Trials testing effort.

1.2 Testing Objectives

The Enhanced Day Ahead Commitment (EDAC) Market Trials Test Plan establishes a common framework to ensure the following testing objectives are satisfied:

- Demonstrate the readiness of both the IESO and market participant (MP) staff and systems to participate in the enhanced Day Ahead Commitment Process (DACP)
- Ensure that market participants have the opportunity to demonstrate the integration of their business processes with the EDAC business procedures and technical deliverables and to test whether the new EDAC systems get the expected results during a range of scenarios.

1.3 Scope of Testing

1.3.1 In Scope:

Market Trials infrastructure testing:

- Connectivity Testing – designated for market participants using an Application Programming Interface (API) to connect to the IESO Market Information Management (MIM) system. This test allows market participants to test their API connections to the IESO Sandbox environment
- Ability Testing – testing the market participant’s ability to connect to the Sandbox, to submit bids and offers, and to receive schedules and reports

Market Trials business process testing:

- Registration of new DACP data – testing the procedures supporting the entry and maintenance of the participant and facility registration data
- Day Ahead, Pre-dispatch, and Real-Time Operations –testing the business processes related to three operational timeframes: day-ahead, pre-dispatch, and real-time operations
- Settlements –testing the business processes related to the settlements of the DACP

Note: All the Market Trials structured test cases are considered to be within the scope for Market Trials.

Note: Market participant unstructured Market Trials test cases are considered within the scope of Market Trials if the execution of the test case does not require support from EDAC Testers. If the execution of the test case requires support from EDAC Testers then the test case should be deemed as a structured Market Trials test case.

1.3.2 Out of Scope:

- Independent review of the implementation of the EDAC Calculation Engine and Settlements System – final report will be made available to market participants
- User Acceptance Testing (UAT) – summary of test cases executed as part of UAT will be made available to market participants
- Site Acceptance Testing (SIT)
- System Technical Testing - summary of test cases for the Settlements systems only will be made available to market participants

1.4 Who should use this document

This Market Trials Test Plan will assist:

- The IESO EDAC Project Office in planning for Market Trials testing and in evaluating and addressing any project risks posed by the Market Trials testing
- The market participants in planning for and understanding the scope of testing activities they will carry out in Market Trials

1.5 Assumptions and Limitations

The following assumptions have been made in the Market Trials Test Plan for the planning and execution of Market Trials testing:

- Market Trials test cases are based on the latest version of the Market Manuals and Internal Procedures revised for EDAC.
- Market Trials will be executed in a manner that, as much as practicable, mimics the IESO day-ahead production timelines and data flows, as well as the associated real-time processes.
- A number of factors will limit the ability to carry out Market Trials in a truly integrated fashion. The use of real-time data flows (real-time constrained schedules, revenue meter readings, Operating Security Limits, operational telemetry, etc.) opposite the Day-Ahead Schedules produced, will limit the relevance of the settlement outcomes in the test environment.
- EDAC Test Team will be accessible for inquiries and assistance

1.6 Conventions

The standard conventions followed for this document are as follows:

- The word 'shall' denotes a mandatory requirement.
- Quotation marks are used to highlight process, component names, or document titles.
- Italics are used to highlight publications, titles of procedures, letters, forms, and for terms defined in the Market Rules.

1.7 Roles and Responsibilities

The IESO has the following roles and responsibilities associated with the Market Trials testing:

EDAC Test Lead

- Develop and maintain the Market Trials Test Plan (this document)
- Participate in the Defect Management process, when applicable
- Collect daily status and defect reports
- Provide updates to the EDAC project staff and market participants on the status of testing

EDAC Test Team:

- Provide overall testing and project support
- Ensure adherence of the test cases to Market Manuals and Internal Procedures
- Participate in the Defect Management process described in this document
- Ensure environment readiness at the start of testing
- Create and maintain test cases
- Review test cases and results
- Support the recording of all necessary information into the Market Trials test cases
- Support and troubleshoot defects that arise during testing and report the results of their investigation to the EDAC Test Lead
- Participate in training, as required, to support testing activities

EDAC Testers:

- Support testing execution
 - Specific EDAC tester roles:
 - Market Entry desk
 - Day-Ahead Operator desk
 - Control Room desk

The market participants have the following roles and responsibilities associated with the Market Trials testing:

Market Trials Working Group (more details are provided part of SE-73 Term of Reference):

- Identify their business processes that are impacted by EDAC
- Create and maintain their business processes test cases
- Provide IESO with comments on test cases
- Support testing execution
- Review test results
- Identify and report defects discovered during testing
- Notify the IESO of all changes to the registration information that may occur during or after the registration process

Market Participant Testers:

- Support testing execution

1.8 Glossary

Key terms related to this document include:

Day-Ahead Production Cost Guarantee (DA-PCG)	minimum generation block down time (MGBDT)
Day-Ahead Operating System (DAOS)	MGBRT limit
combined cycle plant (CCP)	MLP limit
combustion turbine (CT)	combustion turbine (CT)
daily generator data (DGD)	Schedule of Record (SOR)
Day-Ahead Calculation Engine (DACE)	day-ahead operator (DAO)
elapsed time to dispatch (ETD)	Production Cost Guarantee (PCG)
eligible energy limited resource (EELR)	pseudo unit (PSU)
energy limited resource (ELR)	availability declaration envelope (ADE)
daily cascading hydroelectric dependency (DCHD)	physical unit (PU)

Market Rules

The following key terms are defined in Chapter 11 of the Market Rules:

market participant (MP)	registered market participant (RMP)
minimum loading point (MLP)	minimum generation block run-time (MGBRT)
operating reserve (OR)	automatic generation control (AGC)
segregated mode of operation (SMO)	

Acronyms

Availability Declaration Envelope (ADE)	Quality Assurance (QA)
Enhanced Day-Ahead Commitment (EDAC)	Market Forecasts & Integration (MF&I)
subject matter expert (SME)	Day-Ahead Commitment Process (DACP)
Control Room Operator (CRO)	steam turbine (ST)
graphical user interface (GUI)	Surplus Baseload Generation (SBG)
Commercial Reconciliation System (CRS)	Demand Forecasting System (DFS)
Information Publishing System (IPS)	Dispatch Demand Management System (DDMS)
short notice planned outage (SNPO)	User Acceptance Testing (UAT)
day-ahead (DA)	Network Security Assessment (NSA)
Shift Control Engineer (SCE)	Control Room (CR)
Market Information Management (MIM)	IESO Development Kit (IDK)
Application Programming Interface (API)	Universal Resource Locator (URL)

– End of Section –

2. Environment and System Access

2.1 Environment

Market Trials testing will be conducted in the IESO Sandbox environment. Market participants connected to the IESO Sandbox will interact with the new and modified IESO systems that support the enhanced DACP.

The IESO Sandbox will be upgraded to include all the changes resulting from the EDAC project. There are two stages in upgrading the IESO Sandbox:

- During the first stage, only the components necessary for MIM API connectivity testing of the EDAC functionality will be released to the Sandbox.
- The second stage will provide for the remaining functionality and will be released before the beginning of Market Trials.

During the first stage, the IESO will be releasing the new IESO Developer Kit (IDK) to the Sandbox environment. This release provides the market participants that participate in the EDAC Market Trials with the environment to perform connectivity testing with the MIM API. As a result of the changes introduced by the EDAC project, there are additional elements of dispatch data that can be uploaded/downloaded to MIM API using IDK. Changes are required to participants' applications that use IDK in order to utilize this new functionality. The new IDK will not require a certificate of authentication.

2.2 System Access

In order to get access to the upgraded IESO Sandbox during the two different stages, the market participants will have to make an access request to the IESO. Depending on their current access status to the IESO Sandbox, the process of granting system access to the upgraded IESO Sandbox is described below.

IESO Sandbox – Stage 1 Upgrade:

Market Participants

If you currently have access to the current IESO Sandbox (i.e., you have a User ID) you shall request access to the Stage 1 new functionality by sending a request via email to the IESO EDAC Project mailbox (edac@ieso.ca). Your request must specify:

- Your existing User ID,
- Your IP address of the workstation where IDK is loaded, and
- Your contact phone number

IESO

Once the request is processed, the IESO will provide you with:

- URL of Sandbox MIM (via email)
- A link to the IESO Developers Toolkit (IDK) Implementation Manual (posted on the IESO Pending Changes and Technical Interfaces page)
- Password for Stage 1 (via telephone)

Note: this password is only valid for the duration of the development/connectivity testing. A new password will be required for Market Trials (see Stage 2 below)

IESO Sandbox – Stage 2 Upgrade:**Market Participants:**

If you currently have access to the current IESO Sandbox (i.e., you have a User ID) and regardless of whether you received access to the upgraded IESO Sandbox during Stage 1, you shall request access to the Stage 2 new functionality by sending your request to (edac@ieso.ca). Your request must specify:

- Your existing User ID,
- Your IP address of the workstation where IDK is loaded, and
- Your contact phone number

IESO

Once the request is processed, the IESO will provide you with:

- URL of Sandbox Stage 2 (via email)
- IESO Developers Toolkit (IDK) Implementation Manual (http://iesoqa/imowebpub/201102/IMO_MAN_0023_v11.1.pdf)
- Password for Stage 2 (via telephone)

Note, if currently you don't have access to the IESO Sandbox, you must follow the IESO regular processes to obtain access and a User ID. Details regarding the regular IESO system access request can be found on the IESO website or by accessing the following link: http://www.ieso.ca/imoweb/pubs/forms/FORM_1276-IESO-Identity-System-Access-Management.doc.

Once you have completed this process and you received a User ID, you must follow the processes described above to obtain access to the upgraded IESO Sandbox (i.e., Stage 1 or Stage 2).

– End of Section –

3. Preparation and Execution

3.1 Entry/Exit Criteria

Entry Criteria

- A Market Trials Test Plan is in place
- Successful completion of IESO internal testing cycles
- Market facing test cases are available for use in Market Trials

Exit Criteria

- 100% of all test cases scheduled for Market Trials have been executed
- No Critical, High or Medium defects outstanding without a plan to resolve
- Market Trials Results report is available to Market Participants

3.2 Test Case Status

The following test case statuses will be used in conducting the tests.

Table 3-1: 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.
In Process	The test case is in the process of being executed.
Retest	A defect has been fixed, or a change request has been implemented, which results in the need to re-run the test case.
Blocked	A test case cannot be executed because it is blocked by a defect.
Not Tested	A test case that is ready for testing but has not been executed yet.
Conditional Pass	Allows test cases with a workaround but a defect raised for a step in the test case.

3.3 Test Suspension and Resumption

The EDAC Test Team, in consultation with Market Trials Working Group, may choose to suspend testing and later resume it.

Suspension can occur due to:

- Unavailability of hardware or software for more than five days
- Finding a critical defect that will not allow any further testing
- Market Trials participants' resources not being available for testing

Resumption can be triggered by:

- The availability of hardware or software
- The resolution and successful implementation of the defect that suspended testing and the testing team being notified to continue testing
- Market Trials participants' resources becoming available

3.4 Testing Cycle Completion

A Testing Cycle report will be provided at the completion of Market Trials. The report will be posted for Market Participants input. Actual results will be stored internally at the IESO due to confidentiality. The report will include:

- A summary of the overall testing
- The number of each class of defect
- The overall test results and status
- A summary of deferred defects with the plans to resolve the defects

– End of Section –

4. Communication

The following methods will be used to communicate with market participants in preparation and throughout the execution of the EDAC Market Trials:

- Meetings
- Conference Calls
- Email
- IESO Portal

4.1 Meetings

Face-to-face meetings will be held prior to the start of the Market Trials as part of the EDAC Stakeholder Engagement Plan (SE-73). A new EDAC working group, i.e., Market Trials Working Group (MTWG) will be formed to facilitate the preparation and execution of the EDAC Market Trials (refer to Terms of Reference, EDAC Market Trials Working Group). The MTWG meeting schedule will be managed through the EDAC Stakeholder Engagement Plan (SE-73).

4.2 Conference Calls

Daily conference calls will be held between the EDAC Test Team and Market Trials Working Group (MTWG) to manage the execution of the Market Trials testing. The EDAC Test Lead will chair two teleconferences each day as follows:

Start-of-Day Teleconference

The purpose of this teleconference is to briefly receive any changes to the test schedule due to defects or blocked test cases.

End-of-Day Teleconference

The purpose of this teleconference is to:

- Review the Test Execution reports
- Review the Defect Summary reports
- Review individual market facing defects as required
- Review issues encountered during testing that may affect the schedule for the next testing day

The conference calls details are: To be Determined (e.g., dial-in #, conference ID, etc)

4.3 Email

A separate mailbox was created for the purpose of Market Trials. Market participants shall use this mailbox to send to the EDAC Test Team sensitive information regarding Market Trials preparation and execution.

The Market Trials mailbox details are: To be Determined (e.g., edac.trials@ieso.ca)

4.4 IESO Portal

The EDAC Stakeholder Engagement portal will be used by the EDAC Test Team to post relevant information and materials pertaining the Market Trials preparation and execution.

The Market Trials portal details are: To be Determined (folder structure dedicated to Market Trials to post thus test plan, test cases, schedules, defect log, test progress reports, etc).

4.5 Schedules

[Appendix C](#) contains a sample test schedule that outlines the test cases to be executed during a representative two week period of Market Trials. An up to date schedule will be provided to all MT participants prior the start of testing. The schedule will change to adapt to testing conditions, defects, and system availability.

4.6 Reporting

Test progress will be reported on a regular basis throughout the testing and will be the responsibility of the EDAC Test Lead. The sample reports of testing progress are included in [Appendix B](#).

– End of Section –

5. Defect Management

EDAC Test Team will track all defects raised during execution of Market Trials. All market facing defects raised will be reported to MT participants and the status of these defects will be communicated to MT participants through the SE-73 working group set up for Market Trials. This group will meet through teleconference to discuss defects, provide input to the prioritization of defects, and receive updates on the resolution of defects.

Defects reported by MT participants should include all available information in order to enable the identification of the source of the defect and ease of correction. All data required to reproduce the defect (error messages, screen captures) should be attached. The EDAC Test Team will provide a form and mechanism for the submission of data related to defects.

A defect form for MT participants to fill out is included in [Appendix A](#). Completed forms, along with any supporting information shall be emailed to TBD. EDAC Test Team will summarize all defects to respect confidentiality and post a summary to the EDAC Portal.

5.1 Defect definition

Critical

- Defect results in testing coming to a halt and no acceptable work around exists
- The enhanced DACP cannot be deployed with these defects outstanding (show stopper)

High

- Acceptable work around exists that allows Market Trials test execution to continue
- The enhanced DACP can be deployed with these defects outstanding, as long as a plan is in place for resolution

Medium

- Defect has no significant impact on Market Trials test execution
- The enhanced DACP can be deployed with these defects outstanding, as long as a plan is in place for resolution

Low

- Defect is minor or cosmetic in nature and does not impact the Market Trials test execution, or subsequent use by market participants or the IESO
- The enhanced DACP can be promoted to production with these defects outstanding
- Defects can be resolved at a subsequent release in accordance with business priority

6. Test Overview

Market Trials is the last phase of user testing prior to the in service of the enhanced DACP. To facilitate testing, a period of Ability Testing will ensure participants are ready to participate in Market Trials. The structured tests performed in Market Trials will lead by EDAC project staff. Participants will have opportunities during both phases to undertake unstructured testing and report findings or defects to the project team.

The test cases executed during Market Trials will be categorized into the process areas of the EDAC project, namely, Enrolment, Initialization, Optimization, Real-time and Settlements. Market Trials test cases will be developed by EDAC project staff and reviewed by Market Trials participants through SE-73 working groups. Defects discovered during the Market Trials testing cycle will also be logged by EDAC project staff, and defect reports will be shared with Market Trials participants through the regular meetings described below.

6.1 Connectivity Testing

As the IESO receives delivery of new and modified systems, the IESO Sandbox will be made available so that market participants can connect in order to carry out their system and process development and testing. This IESO Sandbox is expected to be made available to market participants early in 2011 for the purposes of API testing. At that time, the Market Participant Interface (MPI) will not be available. Reports are available for developers on the Pending Changes page of the IESO http://iesoqa/imowebpub/201102/IMO_MAN_0023_v11.1.pdf and will be populated by test systems for market participant use in late spring 2011.

Connectivity Testing will be available to market participants until the start of Ability Testing. A schedule of sandbox availability for testing will be communicated through SE-87 and SE-73 working groups.

6.2 Ability Testing

Market Trials participants will be enrolled into the IESO Sandbox test environment one at a time. Assuming approximately 20 potential Market Trials participants (eligible energy limited resources and PCG-eligible generators), Ability Testing is expected to last approximately one to two weeks. On completion of the Ability Testing, a participant may continue to run unstructured tests of their own, while other participants are brought into the test environment.

The IESO will lead Ability Testing, with scenarios to concentrate on a market participant's ability to:

- Connect to the system
- Submit offers
- Receive schedules
- Retrieve settlement reports and statements

All schedules, reports, and statements will be generated by the new and modified IESO systems.

Note: Settlement amounts may not always be relevant to the scenario being tested due to the use of real-time data to feed to the settlements equations.

6.3 Registration of new DACP Data for Testing

Registration of new DACP Data for testing will be conducted prior to the commencement of Ability Testing, and will be reflected in the modified registration system in the IESO Sandbox. The draft registration processes released under the EDAC project consist of new DACP forms, specifically form 1004, 1181, 1702, and 1552. The data collected will be used as the initial set of registration data to populate the IESO test systems during the Market Trials testing and can be changed by the MPs during execution of the Ability Testing stage.

During the fall of 2010, members of the Project Advisory Group were asked to make use of the modified draft registration processes (market manuals, forms which are released under the EDAC project, not under the IESO Baseline release) to register the new DACP related data. The new data includes registration data as well as market participant specific information for the submission of day-ahead three part offers.

This data has been used to populate the IESO test systems during IESO's internal testing, which is scheduled to be complete in mid 2011. This data will also be used as the initial set of registration data at the beginning of Ability Testing, and can be changed by the market participant during the execution of the Ability Testing stage.

Business scenarios for consideration by Market Trials participants during this stage could be:

- Submission and validation of new technical data
- Election of operation as a Pseudo Unit
- Deselecting operation as a Pseudo Unit
- Selecting submission of three part offers

6.4 Day-Ahead, Pre-dispatch, and Real-time Operations

Day-Ahead, pre-dispatch, and real-time operations testing will consist of IESO led scenarios that will involve all applicable Market Trials participants. Scenarios will cover the market participant tasks that occur in the Day-Ahead, Pre-dispatch, and Real-time operating timeframes. These scenarios may include:

Initialization:

Submission of three part offers and daily generation data (DGD)

- Dispatch data
- DGD

Submission of three part offers for pseudo units (PSU) and their associated physical units (PU)

- PSU
- PU

Retrieving and checking the calculated DGD data for PSUs

- Submit the PU DGD;
- Retrieve the calculated PSU DGD (PSU DGD report after 10:00);
- Cross-check the calculation from the PU DGD to ensure the accuracy of the PSU DGD.

Resubmission of Eligible Energy Limited Resources (EELR) offers

- The offers should be accepted anytime between 10:00 and 14:00

Optimization:

Retrieval of participant schedules and commitments

- Private reports for MPs
- Validation of reports

Retrieval and checking of the Availability Declaration Envelope (ADE) values

- Check Source/ADE report
- Available after each run

Real-time:

Carrying out a de-commitment of a resource committed day-ahead

- Request to shut down and actual shutdown are theoretical simulations,
- MP removes offers, IESO removes constraints
- If offer is removed first, it should be queued for approval as a withdrawal, so the constraints should be removed first

Participant withdrawal of a committed resource

- with and without withdrawal code
- Prior to 4 hours out of dispatch, and within 4 hours of dispatch

6.5 Settlement of the DACP testing

Settlement of the DACP testing is dependent on the use of real data streams such as revenue meter data from the IESO production systems. For this reason, scenarios being tested will be constructed by modifying the day-ahead schedules and data (e.g., day-ahead offers, DGD, etc.) that inputs to the settlement systems. Scenarios may include:

- Eligibility for a day-ahead production cost guarantees (DA-PCG) based on real-time revenue meter data
- Retrieval of data files and statements
- Applicability of a start event variant based on day-ahead and real-time revenue meter data

Note: The modification of day-ahead data and its associated real-time data may limit the number of scenarios run during this stage of Market Trials.

– End of Section –

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7. Test Case Information

The most important part of the Market Trials Test Plan is the associated list of test cases that will be executed in this test phase. Each test case specifies what will be tested and the expected results from the exercising of the Market Manual.

The test cases are summarized in Sections 7.1 through 7.4 for Enrolment, Initialization, Optimization, and Real-time processes. This plan will be updated for Settlement test cases as they become available.

7.1 Test Cases

7.2 Enrolment

7.3 Initialization

EDAC Process	Test Case ID	Test Case Name
Initialization	I-001	EELR submits revised dispatch data with the DEL >0 MWh between 10:00 and 12:00 on the pre-dispatch day; dispatch data accepted.
	I-002	Non EELR dispatchable generator submits revised dispatch data between 10:00 and 14:00 on pre-dispatch day with reason code. MP phones DACP Operator confirming reason code is valid. Submission is approved by DACP Operator.
	I-004	Demonstrate the procedure for managing DGD submissions that exceed limits.
	I-007	Dispatchable generator/ load submits dispatch data between 10:00 and 14:00 on pre-dispatch day in response to request for additional offers/bids with reason code OTHER. A corresponding text description is included.
	I-008	Dispatchable generator, dispatchable load, import, or export submits dispatch data between 10:00 and 14:00 on pre-dispatch day with no reason code.
	I-009	Dispatchable generator, dispatchable load, import or export submits dispatch data between 10:00 and 14:00 on pre-dispatch day with reason code OTHER but with no text description.
	I-010	MP submits segregated mode of operation (SMO) request before 9:00 day-ahead
	I-011	MP submits SMO request after 10:00 day-ahead.

EDAC Process	Test Case ID	Test Case Name
Initialization	I-012	Submitting dispatch data between 6:00 and 10:00 on pre-dispatch day.
	I-013	Submitting dispatch data between 6:00 and 10:00 on pre-dispatch day. Error in data and it gets rejected.
	I-014	Physical unit associated with a PSU submits dispatch data before 10:00 on pre-dispatch day.
	I-015	Dispatchable not quick start generator submits valid DGD between 6:00 and 10:00.
	I-016	Physical unit associated with a PSU submits DGD before 10:00 on pre-dispatch day.
	I-018	MP submits/revises dispatch data after 10:00 on pre-dispatch day with a reason code. Dispatch data automatically rejected at 14:00 (no action taken).
	I-019	Import/Exports and linked wheels submit dispatch data after 10:00 on pre-dispatch day in response to IESO request for additional offers/bids.
	I-020	PSU makes a change to physical unit offer between 10:00 and 14:00 on pre dispatch day.
	I-021	PCG-eligible resource submits DGD after 10:00.

7.3.1 Initialization Test Specification

The purpose of testing the Initialization process area is to acquire, validate, and refine all inputs that will be used in the EDAC Optimization process.

Test Case ID: I-001

Test Case Description: EELR market participant submits the initial dispatch data with a DEL value of 0 before 10:00 on the pre-dispatch day, causing the EELR to not be used in the initial DACP run. Between 10:00 and 12:00 on the pre-dispatch day, EELR submits revised dispatch data with the DEL >0 MWh; submitted data is validated and accepted to be used in the next run of the Day-Ahead Calculation Engine (DACE).

Actor: Market participant, DACP Operator

Procedure including version:

- Market Manual 9.2 Procedures for Submitting Operational and Market Data for DACP v1.0

Expected Results:

- The EELR resource does not get scheduled in the initial DACP run.
- IESO receives, validates, and accepts submitted dispatch data with a revised DEL.
- The EELR resource will get scheduled in the next DACP run.

Test Case ID: I-002

Test Case Description: Non EELR dispatchable generator submits revised dispatch data between 10:00 and 14:00 on pre-dispatch day with reason code. Submitted dispatch data is held for approval. Market Participant notifies DACP Operator of their submission by phone. IESO assesses revised dispatch data including the reason code and approves submission. Revised dispatch data is used in next run of the DACE. This demonstrates the procedure for managing dispatch data submissions queued for approval.

Actor: Market participant, DACP Operator

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- The IESO receives the dispatch data via OPGUI.
- DACP Operator receives phone call and reviews reason code according to Appendix A.1 of Market Manual 9, Part 9.2.

Dispatch data is used in the DACP and/or Pre-dispatch.

Test Case ID: I-004

Test Case Description: Market participant submits DGD with a MLP exceeding the MLP Limit. Submission includes reason code with corresponding explanation. On receipt of a phone call from the MP, the DACP Operator reviews and approves the submission, logs the details, and includes the information in the hand-off notes. (DGD exceeding limits submitted after 16:00 will not be reviewed until a call is received after 08:00 the following day).

Actor: PCG-Eligible generator, DACP operator

Procedure including version:

- Market Manual 9.2- Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- DGD is queued for approval in OPGUI.
- DACP Operator receives phone call and reviews reason.
- Data is available in DAOS and reports (Daily Generator Data report).
- Day-ahead schedules respect the approved MLP value.

Test Case ID: I-007

Test Case Description: Dispatchable generator/load submits dispatch data between 10:00 and 14:00 on pre-dispatch day in response to IESO's request for additional offers/bids with reason code OTHER. A corresponding text description is included. Submission is assessed and approved. No phone call is required.

Actor: Market participant, DACP Operator

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Market participants are notified of IESO's request for additional offers/bids.
- DACP Operator receives dispatch data and reason code queued for approval in OPGUI.
- Dispatch data will be used in the next DACP run.

Test Case ID: I-008

Test Case Description: Dispatchable generator, dispatchable load, import or export submits dispatch data between 10:00 and 14:00 on pre-dispatch day with no reason code. Dispatch data is automatically rejected and a validation error is issued.

Actor: Market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Dispatch data is automatically rejected and not used in the DACP and/or Pre-dispatch. Validation error is issued.

Test Case ID: I-009

Test Case Description: Dispatchable generator, dispatchable load, import or export submits dispatch data between 10:00 and 14:00 on pre-dispatch day with reason code OTHER but with no text description. Submission is automatically rejected.

Actor: Market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Dispatch data is automatically rejected and not used in the DACP and/or Pre-dispatch. Validation error is issued.

Test Case ID: I-010

Test Case Description: This demonstrates the procedure for implementing SMO. Market Participant submits SMO request before 9:00 day-ahead, SMO is approved and included in DACP. Required outages are submitted. This also tests that segregated generation units are not included in the DA Schedule even though they have valid DA offers.

Actor: DACP Operator, market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Offers present in the Ontario Market in case SMO is revoked.
- DACP Operator receives phone call and acknowledges SMO request. The DACP Operator receives outage request for units in IOMS.
- DACP Operator approves SMO unit outage(s) in IOMS. SMO is reflected in DA Schedule.
- DACP operator approves transmission outage slip in IOMS

Test Case ID: I-011

Test Case Description: Market Participant submits SMO request after 10:00 day-ahead. Request is not approved until last run of DACP completed and is not included in DACP. SMO is approved and included in pre-dispatch. This tests the procedure for SMO requests received after 10:00.

Actor: DACP Operator, market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Offers present in the Ontario Market in case SMO is revoked..
- DACP Operator receives outage request slip, but does not approve the request until after the last DACE run.
- DACP Operator receives telephone call and acknowledges request.

- DACP operator approves SMO unit outages in IOMS.
- DACP operator approves transmission outage slip in IOMS

Test Case ID: I-012

Test Case Description: Market participant submits dispatch data for day 1 between 06:00 and 10:00 on pre-dispatch day. Tests that valid three part offers, bids, forecasts & schedules submitted before 10:00 will be used in the DACP.

Actor: Market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- The IESO receives and validates dispatch data
- Dispatch data is used in the DACP and/or Pre-dispatch.

EDAC DRAFT

Test Case ID: I-013

Test Case Description: Market participant submits dispatch data between 06:00 and 10:00 on pre-dispatch day. There is an error in the data that gets it rejected. Tests MPI/API validation of bids and three part offers.

Actor: Market participant

Procedure including version:

Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- The IESO (MPI/API) receives dispatch data. Dispatch data is not valid.
- Market participant is notified of validation error via the MPI/API.
- The IESO (MPI/API) receives and validates dispatch data.
- Dispatch data is used in the DACP and/or Pre-dispatch.

Test Case ID: I-014

Test Case Description: Physical unit associated with a PSU submits dispatch data before 10:00 on pre-dispatch day. Tests that PU dispatch data received before 10:00 is not used in the DACP. Validating test results to be determined.

Actor: Market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- The IESO receives and validates physical unit dispatch data but does not consider it during DACP.
- Dispatch data is used in the Pre-dispatch.

Test Case ID: I-015

Test Case Description: PCG-eligible resource submits DGD between 06:00 and 10:00 day-ahead. The IESO systems validate and accept the submitted DGD.

Actor: Market participant, DACP Operator

Procedure including version:

- Market Manual 9.2- Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- DGD submission is validated and accepted
- Accepted DGD is available for DACP.

Test Case ID: I-016

Test Case Description: Physical Unit resources associated with a PSU submits DGD before 10:00 on pre-dispatch day. The IESO computes the PSU parameters. The computed DGD is used in the DACP.

Actor: DACP Operator, PSU resource

Procedure including version:

Market Manual 9.2- Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- DGD validated and accepted
- PSU DGD parameters available for the DACP.
- The PSU DGD computed values are reflected in the report.
- The PSU DA Schedule respects the calculated DGD values in the report and the CT MGBRT, MGBDT, and Max Starts.

Test Case ID: I-018

Test Case Description: Dispatchable loads and non energy limited dispatchable generators submit/revise dispatch data after 10:00 on pre-dispatch day with a reason code. IESO does not take any action during DACP. Dispatch data is automatically rejected after 14:00.

Actor: Market participant

Procedure including version:

- Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- DACP Operator receives dispatch data.
- Dispatch data is automatically rejected after 14:00 and is not used in the DACP and/or pre-dispatch.

Test Case ID: I-019

Test Case Description: Import/Exports and linked wheels submits dispatch data after 10:00 on pre-dispatch day in response to IESO request for additional offers/bids with reason code OTHER. A corresponding text description is required. Submission is assessed and approved. No phone call required.

Actor: Marketer, DACP Operator

Procedure including version:

Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Market participants are notified of IESO request for additional offers/bids.
- DACP Operator receives dispatch data and reason code queued for approval in OPGUI.
- Dispatch data will be used in the next DACP run.

Test Case ID: I-020

Test Case Description: PSU Market Participant makes a change to physical unit offer between 10:00 and 14:00 on pre-dispatch day. No DACP Operator approval is needed. Submission is accepted.

Actor: PSU resource, DACP Operator

Procedure including version:

Market Manual 9.2 Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- Change is received.
- Data is accepted.

Test Case ID: I-021

Test Case Description: PCG-eligible resource submits DGD after 10:00 day-ahead. DGD used for following DACP days.

Actor: DAO, DA- PCG-eligible generator

Procedure including version:

- Market Manual 9.2- Submitting Operational and Market Data for the DACP v1.0

Expected Results:

- The submitted DGD is within the tolerance being used. The IESO systems receive and validate submitted DGD.
- Accepted DGD is not used in subsequent runs of the DAOS for the next day. Accepted DGD is available for next day's DACP.

7.4 Optimization

EDAC Process	Test Case ID	Test Case Name
Optimization	O-001	Demonstrate the procedure to notify market participants that initial results are delayed.
	O-002	Demonstrate the procedure to notify market participants that energy limited resource (ELR) Optimization results are delayed.
	O-003	Demonstrate the procedure to notify market participants that there will be no ELR Optimization run.
	O-004	Demonstrate the procedure to notify market participants of a DACP failure.
	O-005	MP retrieves DACP reports.
	O-007	Demonstrate the procedure for Contract Manager failure.
	O-010	Demonstrate the procedure required to stop a DACP run in progress and then to resume that run.
	O-012	Demonstrate the procedure to notify market participants that re-run criteria has been met.
	O-014	Demonstrate the procedure to notify market participants that invalid results have inadvertently been published.
	O-016	Declare and record DACP failure.
	O-017	Automatic loading of constraints fails; manual loading of constraints and publishing completed.

7.4.1 Optimization Test Specification

The purpose of testing the Optimization process area is to produce a plan for operating the real-time grid and market on the next day, as well as prepare inputs for and perform the day-ahead Optimization process that generates next day resource commitments and schedules

Test Case ID: O-001

Test Case Description: The DACP Operator will issue a notification that initial results are delayed via the Notification Solution.

Actor: DACP Operator, market participants

Procedure including version:

- Market Manual 9.3- Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

- Market participants receive notification via MPI or API that the initial DACP results have been delayed with the time to expect the results; EELR Resubmission window extended until HH:MM (ELR Optimization results will also be delayed).
- Market participant accesses the public and private reports to view the delayed initial results.

Test Case ID: O-002

Test Case Description: The DACP Operator will issue the notification that EELR Optimization results have been delayed via the Notification Solution.

Actor: DACP Operator, market participants

Procedure including version:

- Market Manual 9.3- Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

- Market participants receive notification via MPI or API that the EELR Optimization results are delayed with the time to expect the results.
- A market participant accesses the public and private reports to view the delayed EELR Optimization results.

Test Case ID: O-003

Test Case Description: The DACP Operator will issue a notification that there will be no EELR Optimization run via the Notification Solution.

Actor: DACP Operator, market participants

Procedure including version:

- Market Manual 9.3- Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

Market participants receive notification via MPI or API that there is no EELR Optimization.

Note: If the DACP has not produced a valid ELR Optimization run, the DACP Schedule of Record (SOR) will be on the initial DACP run. Market participants can access the DACP SOR from the IESO report site.

Test Case ID: O-004

Test Case Description: The DACP Operator will issue the notification of a DACP failure via the Notification Solution.

Actor: DACP Operator, market participant

Procedure including version:

- Market Manual 9.3- Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

Market Participants receive the notification via MPI or API that the DACP has failed. The notification message informs the MPs of the date of the DACP failure and the date to expect the DACP to resume:

Message: "The Day-Ahead Commitment Process has failed for trade date YYYY/MM/DD. (Commitment will be as per Pre-Dispatch. No DA-PCGs or DA-IOGs will apply.) DACP will resume for trade date YYYY/MM/DD"

Test Case ID: O-005

Test Case Description: Market Participants retrieves public and private reports.

Actor: DACP Operator, market participants

Procedure including version:

Market Manual 9.3- Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

- The public and Private reports are published.
- The market participant accesses the public and Private reports to view the initial results.
- The public and Private reports are published.
- The market participant accesses the Public and Private reports to view the EELR Optimization results.

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Test Case ID: O-007

Test Case Description: Contract Manager tool has failed. Contract Manager will not be returned to service until after 15:00. Market Participants will be notified that the DACP Commitments reports will be delayed until further notice. The DACP Commitment reports are issued when Contract Manager has been returned to service.

Actor: DACP Operator, Shift Control Engineer (SCE), market participant

Procedure including version:**Expected Results:**

- Market participants receive notification via MPI or API that the DACP Commitments reports will be delayed.
- The Commitments reports are published automatically on completion of the load.
- Market participants receive notification via MPI or API that the DACP Commitments reports were issued.

Test Case ID: O-012

Test Case Description: The DACP Operator will issue the notification that an additional run has been scheduled due to the re-run criteria and when to expect the results, via the Notification Solution.

Actor: Market participant, DACP Operator

Procedure including version:

Internal Manual 2.15-3 Operating during the DACP v2.0

Expected Results:

- Market participant receives notification via MPI or API that an additional run has been scheduled. The notification reads:

Message: "An additional DACP run has been scheduled due to (give rerun criterion). Expect results by HH:MM."

Note: Market participants can also access the IESO website to view the notification message of an additional run.

- The results from the subsequent run are published for the market participant to view at the proposed time (by 15:00).

Test Case ID: O-014

Test Case Description: The DACP Operator will issue the notification that invalid results have inadvertently been published, via the Notification Solution.

Actor: Market participant, DACP Operator

Procedure including version:**Expected Results:**

Market participant receives notification from IESO that the previously published results have been determined to be invalid.

Test Case ID: O-016

Test Case Description: The DACE does not produce valid results so a DACP failure is declared. A failure notification is sent to Market Participants.

Actor: Market participant, DACP Operator

Procedure including version:

- Market Manual 9.3 - Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

- Market Participants will identify a DACP failure from the absence of the SOR reports after 15:00.
- The DACP commitments are not loaded as real-time constraints and the Commitment reports are not issued.
- Settlements and Customer Relations are notified of the DACP failure.
- MPs receive the notification via MPI or API that the DACP has failed. The notification message informs the MPs of the date of the DACP failure and the date to expect the DACP to resume. The notification message will read:

Message: “The Day-Ahead Commitment Process has failed for trade date YYYY/MM/DD; DACP will resume for trade date YYYY/MM/DD.”

Test Case ID: O-017

Test Case Description: The automatic loading of constraints into Contract Manager fails. The DACP Operator must load the constraints into Contract Manager and initiate publishing of Commitments reports manually.

Actor: DACP Operator

Procedure including version:

- Market Manual 9.3 Operation of the Day-Ahead Commitment Process v1.0

Expected Results:

- The SCE initiates repairs.
- Market participants receive notification via MPI or API that the DACP Commitments reports will be delayed.
- The data is available for calculations.
- The constraints are calculated.
- The constraints are loaded into Contract Manager.
- The DACP Commitments reports are published.
- Market participants receive notification via MPI or API that the DACP Commitments reports are published.

7.5 Real-time

Table 7-1: Real-time Test Cases

EDAC Process	Test Case ID	Test Case Name
Real - Time	R-001-MT	PCG-eligible resource requests withdrawal of offer for an already committed resource from the DACP for approval; MP receives authorization to withdraw.
	R-002-MT	PCG-eligible resource requests withdrawal of offer for an already committed resource from the DACP for approval; MP does not receive authorization to withdraw.
	R-003-MT	IESO de-commits a PCG-eligible resource to eliminate reliability issue.

7.5.1 Real-time Test Specification

The purpose of testing the Real-time process area is to verify the integration of day-ahead commitments in response to varying demand. Additionally, the Real-time process will also test the ability to manage committed resources and respond to ongoing grid conditions.

Test Case ID: R-001-MT

Test Case Description: PCG-eligible resource with a commitment from the DACP requests to withdraw its offer (from any time after DACP Schedule of Record has been issued until 2 hours prior to dispatch hour). The revised dispatch data and "withdrawal" reason code are submitted for approval. The Control Room Operator approves request, approves dispatch data submission and removes constraints.

Actor: Market participant, Control Room Operator (CRO)

Procedure including version:

- Market Manual 9.4 Real-time Integration of the DACP v0.1.12

Expected Results:

- Revised dispatch data is queued for IESO approval in OPGUI.
- Control Room Operator receives telephone call from Market Participant and reviews "Withdrawal" reason code queued for approval in OPGUI.
- Revised dispatch data submission is approved. Withdrawal is affected for specified hours.

Test Case ID: R-002-MT

Test Case Description: PCG-eligible resource with a commitment from the DACP requests to withdraw its offer (from any time after DACP Schedule of Record has been issued until 2 hours prior to dispatch hour). The revised dispatch data and "withdrawal" reason code are submitted for approval. The Control Room Operator does not approve request.

Actor: Market participant, CRO

Procedure including version:

- Market Manual 9.4 Real-time Integration of the DACP v0.1.12

Expected Results:

- Revised dispatch data is queued for IESO approval in OPGUI.
- Control Room Operator receives telephone call from Market Participant and reviews "Withdrawal" reason code queued for approval in OPGUI.
- Revised dispatch data is not approved.

Note: Dispatch data will automatically be rejected at 14:00.

Test Case ID: R-003-MT

Test Case Description: PCG-eligible resource receives a commitment from the DACP. Following the commitment, IESO identifies a reliability issue, de-commits the PCG-eligible generation unit, and removes

constraints from Contract Manager to eliminate the reliability issue. The IESO requests removal of offers for the specified hours.

Actor: Market participant, CRO

Procedure including version:

- Market Manual 9.4 Real-time Integration of the DACP v0.1.12

Expected Results:

- PCG-eligible generator receives notification by telephone of requirement to de-commit, shuts down the unit and remove offers for future hours.
- Control Room Operator approves the changes to dispatch data queued in OPGUI.
- Unit not scheduled in future Pre-dispatch.

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Test Case ID: R-005

Test Case Description: Market participant submits new or revised dispatch data that expands their ADE with reason code "ERPO". IESO approval is needed. (IESO did not request additional bids and offers). IESO approves request. Reason code meets the requirements for expanding ADE.

Actor: Market participant, CRO

Procedure including version:

Expected Results:

- IESO receives dispatch data submission.
- The CRO can review the revised dispatch data and discuss the reason.
- The dispatch data is used in Pre dispatch.

Note: If the MP's revised submission is rejected, the CRO will request the MP to reinstate their previous dispatch data.

Test Case ID: R-008

Test Case Description: Market participant submits new or revised dispatch data that expands their ADE with reason code. IESO approval is needed (IESO did not request additional bids and offers). IESO rejects request as it does not meet Availability Declaration Envelope requirements.

Actor: CRO, market participant

Procedure including version:

Expected Results:

- IESO receives dispatch data submission.
- The CRO can review the revised dispatch data and discuss the reason.
- Market Participant reinstates their previous dispatch data in MPI/API.

– End of Section –

Appendix A: Defect Form

EDAC Market Trials Defect Form

Date:

Submitted By:

Defect Name:

Defect Description:

Steps to recreate:

- 1.
- 2.
- 3.
- 4.
- 5.

Supporting Documentation:

Comments:

Resolution/Action Plan:

Date Closed:

Appendix B: Reports

Test Case Coverage By Process - MT

Process	Test Case ID	Test Case Name	Latest Execution Status
Enrolment	E-001_MT	Market Trials Test case sample	Fail
Total Test Cases in Enrolment:	1		
Total Pass:	0		
Total Conditional Pass:	0		
Total Fail:	1		
Total Blocked:	0		
Total Retest:	0		
Total Outstanding:	1		

Process Coverage Summary

Process	Total Test Cases	Pass	Fail	Blocked	Retest	Not Tested	In Progress	Conditional Pass	Not Applicable	Outstanding
Enrolment	45	9	1	12	0	22	0	1	0	36
Enrolment, Initialization, Optimization	4	0	0	2	0	2	0	0	0	4
Initialization	44	18	2	2	0	22	0	0	0	26
Optimization	52	18	0	6	0	26	0	2	0	34
Real Time	16	4	3	1	0	8	0	0	0	12
Grand Total	161	49	6	23	0	80	0	3	0	112

EDAC

Defect Tracking Report - MT

DefectID	Date Created	Defect Name	Testing Cycle	Priority	Assigned Date	Defect State	Resolution	Target Resolution Date	Root Cause Description
DEF-026	February 14, 2011	Sample Defect for Market Trials	MT	High	February 14, 2011	Open	Testing sample for Market Trials		

EDFA

EDAC Defect Summary

Defect State	Critical	High	Medium	Low	No Priority	Total Outstanding
Assigned	0	1	0	0	1	2
Cancelled	0	0	0	0	0	0
Closed	0	0	1	3	5	9
Open	0	2	3	0	9	14
Re-open	0	1	0	0	0	1
Retest	0	0	1	0	0	1
Grand Total:	0	4	5	3	10	18

Appendix C: MT Test Schedule Sample

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday		
DACP Day	January 10, 2011	January 11, 2011	January 12, 2011	January 13, 2011	January 14, 2011	January 15, 2011	January 16, 2011	January 17, 2011	January 18, 2011	January 19, 2011	January 20, 2011	January 21, 2011	January 22, 2011	January 23, 2011	January 24, 2011	January 25, 2011	January 26, 2011	January 27, 2011	January 28, 2011	January 29, 2011	January 30, 2011	January 31, 2011	#####	#####	#####	#####		
DACP for Dispatch Day:	January 11, 2010	January 12, 2011	January 13, 2011	January 14, 2011	January 15, 2011	January 16, 2011	January 17, 2011	January 18, 2011	January 19, 2011	January 20, 2011	January 21, 2011	January 22, 2011	January 23, 2011	January 24, 2011	January 25, 2011	January 26, 2011	January 27, 2011	January 28, 2011	January 29, 2011	January 30, 2011	January 31, 2011	#####	#####	#####	#####	#####		
Current Dispatch Day:	January 10, 2011	January 11, 2011	January 12, 2011	January 13, 2011	January 14, 2011	January 15, 2011	January 16, 2011	January 17, 2011	January 18, 2011	January 19, 2011	January 20, 2011	January 21, 2011	January 22, 2011	January 23, 2011	January 24, 2011	January 25, 2011	January 26, 2011	January 27, 2011	January 28, 2011	January 29, 2011	January 30, 2011	January 31, 2011	#####	#####	#####	#####		
Process																												
Enrolment			E-005	E-016																								
			E-006	E-011																								
			E-003	E-009																								
			E-004	E-010																								
			E-020	E-014																								
			E-021	E-015																								
			E-001	E-017																								
			E-002	E-018																								
			E-012	E-019																								
			E-013	E-022																								
		E-007																										
		E-008																										
Initialization									I-015	I-001	I-012					I-002	I-010	I-003										
									I-004	I-008	I-013					I-007	I-011	I-005										
									I-021	I-009	I-014					I-017	I-016	I-006										
											I-018	I-020																
											I-019																	
Optimization									O-011	O-001	O-005					O-004	O-017	O-007										
									O-019	O-002	O-006					O-012	O-020	O-018										
									O-021	O-003	O-013					O-015	O-022	O-025										
										O-008	O-014					O-016		O-026										
										O-009	O-023																	
										O-010																		
										O-024																		
Real-Time										R-001	R-006					R-004	R-005	R-003										
										R-002							R-008											
										R-007																		
Scheduling Notes / MT Operations Notes:																												
	LEGEND																											
	Testing Day	Test Cases will be executed on this date																										
	Scheduled Case #	Specific Test cases that will be executed																										
	MP Ability Testing	Test environment reserved for MP ability testing																										
	Environment U/A	IT using testing environment for defect testing, releases etc.																										
Weeekend/Holiday	No testing																											
Training	Tester Training																											