

# 603 MANAGING THE COMMISSIONING AND TESTING OF GENERATORS

## 1. Purpose

To define the responsibilities for market participants and ISO operations personnel in the testing and commissioning of generators, and to define the procedures to be followed by the System Controller (SC).

## 2. Background

The testing and commissioning of generators may be required by owners from time to time to ensure the designed performance of the generator. These tests can have an effect on the secure operation of the Alberta Interconnected Energy System (AIES) and on the real time market. Close coordination is required between the generator operator and the System Controller (SC). It is often impractical for a market participant to accurately restate the actual output level of the generator during testing and commissioning. In order for market participants to avoid dispatch variance penalties, they are required to fulfill the responsibilities identified in [Section 4.1](#).

## 3. Policy

None specified.

## 4. Responsibilities

### 4.1 Market Participant

The market participant will

- Submit a testing or commissioning plan to the ISO at [outage.scheduling@aeso.ca](mailto:outage.scheduling@aeso.ca) per following schedule:
  - a. at least 10 days in advance for generators of capacity less than 150 MW
  - b. at least 30 days in advance for generators of capacity equal to or greater than 150 MW.

In certain unforeseen circumstances or under emergency conditions, at the discretion of the ISO, the testing or commissioning plan submitted in short notice may be approved subject to real time AIES reliability requirements and operational flexibility

- For commissioning of a new generator, submit a commissioning plan in accordance with Section 3.2 of [OPP 605](#).
- Specify the type of testing, the date and time the testing or commissioning to be done, and the time, duration and magnitude of the expected energy output levels during the test or commissioning period.

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- Offer the energy from the generator in the day-ahead submission, or restate in the real time to reflect the expected energy output amount for each settlement period during the test or commissioning period.
- Offer the energy from the generator, for the test or commissioning period, into the energy market at a price of \$0.00 to ensure the offered energy will be in merit to avoid non-compliance on an energy market dispatch.
- Notify the SC as soon as possible if the testing or commissioning plan changes.

**4.2 Generator Operator**

The generator operator will:

- On the day of the test or commissioning, make a real time request for approval from the SC before the start of a test or the commissioning of a generator.
- Notify the SC before changing the real power (MW) and reactive power (MVar) output level of the generator during the test or commissioning period.
- Notify the SC as soon as possible if the testing or commissioning plan changes.
- Notify the SC when the test or commissioning is completed.

**4.3 ISO**

Operations Coordination will:

- Either approve or reschedule the testing or commissioning of a generator with the Participant based on the anticipated AIES reliability requirements.
- Forward a copy of the approved testing or commissioning plan to the SC and appropriate parties. The information regarding timing and energy output levels will be used for settlement purposes in consideration of the application of dispatch variance penalties.

**System Controller**

- The SC will approve, delay or cancel the testing or commissioning of a generator at any time before or during the testing or commissioning based on real time AIES reliability requirements.

**5. System Controller Procedures**

**5.1 Managing the testing or commissioning of a generator**

The SC will:

1. Review the submitted written testing or commissioning plan to prepare for managing the secure operation of the AIES during the testing or commissioning of the generator.
2. Approve, delay or cancel the testing or commissioning of the generator based on real time AIES reliability requirements at anytime before or during testing or commissioning.
3. Log in the SC shift log if the testing or commissioning was delayed or cancelled due to system reliability reasons.

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4. Manage the real time operational reliability requirements of the AIES during the testing or commissioning of a generator in coordination with the generator operator and in response to the real and reactive power output levels of the generator.
5. Log in the SC shift log the start and end time of the test(s) or commissioning.

## **6. Revision History**

| <b>Issued</b> | <b>Description</b>                               |
|---------------|--|
| 2006-12-22    | Supersedes 2003-07-28                            |
| 2003-07-28    | Revised to ISO Operating Policies and Procedures |