

Background on Commissioning

MPWG December 2, 2008



- Commissioning Timelines
- Contents of a Test Plan
- Characteristics of a Self-Scheduling Commissioning Generator
- Schedule Timelines for a Self-Scheduling Commissioning Generator
- Visibility of Commissioning Units

- According to the Market Rules:
 - *commissioning generation facility* means a *generation facility* located within the *IESO control area* that is either (i) newly constructed or (ii) significantly redesigned or rebuilt and is designated by the *IESO* as a *commissioning generation facility*

- Commissioning Timeline:
 - > 3 months prior to testing, advise the IESO of proposed synch date
 - 33 days prior to testing, submit a test plan
 - 6 days prior to testing, register as a self-scheduling commissioning unit
 - 3 days prior to testing submit supporting outage slips for testing schedule
 - Submit schedules (as self-scheduling commissioning generator) by 11am the day before testing
 - Follow predispatch schedule and test plan

- A commissioning generator must provide a detailed test plan 33 days prior to testing which includes the following:
 - Expected time of synchronizing or de-synchronizing
 - Energy and reactive output levels
 - Timing of, and ramp rates associated with, changes in energy and reactive output levels
 - Run-back or trip tests
 - Excitation and Power System Stabilizer (PSS) tests

- Commissioning generators are considered self-scheduling commissioning units
- Self-scheduling commissioning units:
 - Enter schedules instead of energy offers
 - Cannot provide operating reserve
 - Do not receive dispatch instructions
 - Generate as per their submitted schedule and test plan
 - Have all of the same communications requirements:
 - Unrestricted and mandatory windows apply
 - Call if they become unable to meet schedule (outside of deadband) and change schedule going forward (if needed)
 - Enter an outage slip (if needed)
 - Call when moving from one phase to the next (i.e. runback, VAR⁶)

Schedule Timeline for a Self-Scheduling Generator

- Must enter schedules for each generator as registered
- Must enter schedules day-ahead before 11:00 am. E.g, if you want to generate on Monday, you have to enter your schedule by 11:00 am EST on Sunday (DACP requirement)
- Can use either daily or standing schedules
- Can change your schedule after the DACP as needed (no Availability Declaration Envelope for commissioning self-schedulers)

- A schedule tells the IESO:
 - How much you want to generate
 - When you want to generate
 - Where you are generating on the system
 - A price at which you expect to reduce your output to zero rather than generate

- These commissioning self-scheduling units are made public the same as any other self-scheduling unit
 - Seen in predispatch
 - schedule carried over to real-time
- Existing rules designed so that the IESO can manage commissioning units within current market operations. For example:
 - Reflected in predispatch
 - Reflected in OR requirement
 - Test plan submitted
- All generators would need to understand the implications of making commissioning details public and that confidentiality concerns would not exist