

# ***Potential Leading Reactive Power Test Change***

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*SOAS Meeting  
March 23, 2010*

# ***Potential Change to Test Frequency***

- ◆ It has been requested by several Generator Owners that the Leading Reactive Power Testing for VSS no longer be required annually
  - *Proposed change would require this test once every three years*
  - *Advantages to changing the test frequency*
    - Provides flexibility for NYISO and Transmission Owner system operators in scheduling the tests
    - Reduces system resources needed for annual testing.
  - *Potential disadvantages*
    - Reduced data available on generators participating in VSS

# ***Potential Change to Test Frequency***

- ◆ Constraints in Defining Test Frequency
  - *NYISO Ancillary Services Manual mandates each Resource providing VSS must demonstrate Lagging and Leading Reactive Capability at least once each calendar year (Ancillary Services Manual 3.6)*
  - *NYSRC Reliability Rule C-R1 Measurement C-M3 requires that generators which are voltage support ancillary service providers shall annually verify the reactive power capacity of their generators and report test results*
- ◆ Changes to test frequency would require changes to the Ancillary Services Manual and the NYSRC Measurement Requirement

# ***Potential Change to Test Frequency***

- ◆ **Current Wording for Ancillary Services Manual 3.6**
  - *Each year resources that participate in VSS must be tested to demonstrate both Lagging and Leading Reactive Power capability or must provide data collected during actual operation to demonstrate both Lagging and Leading Reactive Power capability.*
  
- ◆ **Proposed Wording for Ancillary Services Manual 3.6**
  - *Each year resources that participate in VSS must be tested to demonstrate Lagging Reactive Power capability. Once every three years resources that participate in VSS must be tested to demonstrate Leading Reactive Power capability. Resources can alternatively provide data collected during actual operation to demonstrate both Lagging and Leading Reactive Power capability.*

# ***Potential Change to Test Frequency***

- ◆ **Current Wording for Ancillary Services Manual 3.6.1**
  - *At least once each calendar year each Resource providing Voltage Support Service must test or demonstrate both Lagging and Leading Reactive Capability.*
  
- ◆ **Proposed Wording for Ancillary Services Manual 3.6.1**
  - *At least once each calendar year each Resource providing Voltage Support Service must test or demonstrate Lagging Reactive Capability. At least once every three calendar years each Resource providing Voltage Support Service must test or demonstrate Leading Reactive Capability.*

# ***Potential Change to Test Frequency***

## **◆ Current Wording for NYSRC C-M3**

- *Generation equipment owners shall annually perform tests for all generators that are voltage support ancillary service providers to verify the reactive power capacity of their generators and report test results to the NYISO, in accordance with NYISO procedures and schedules as required in Measurement C-M1. (C-R1)*

## **◆ Proposed Wording for NYSRC C-M3**

- *Generation equipment owners shall annually perform Lagging Reactive Power tests and perform Leading Reactive Power tests once ever three calendar years for all generators that are voltage support ancillary service providers to verify reactive power capacity. Test results must be reported to the NYISO, in accordance with NYISO procedures and schedules as required in Measurement C-M1. (C-R1)*

## ***Schedule***

- ◆ SOAS Proposal Review March 23, 2010
- ◆ MWIG Proposal Review April 19, 2010
- ◆ BIC Vote on Proposal May 5, 2010
- ◆ OC Vote on Proposal May 6, 2010

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