



Ancillary Services Manual Update

Harris Miller

Engineer, Operations Engineering

ICAP/MIWG/PRLWG:

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Agenda

- **Changes to Section 3: Voltage Support Service**

Changes to Section 3 Voltage Support Service

Summary of Changes

- **New Subsection 3.2.1. Qualification Package**
 - Described documentation needed with greater specificity: Original Equipment Manufacture name, plant level single line diagram, etc...
- **Section 3.6. Reactive Power Capability Testing or Demonstration**
 - Generally reorganized the text for clarity and readability.
- **New Subsection 3.6.1.2 Identical Treatment Units**
 - Given new subsection for clarity.
- **New Subsection 3.6.1.3 Testing Periods**
 - Given new subsection for clarity.
 - Broke down key testing periods into bullet points instead of paragraph text.
- **New Subsection 3.6.2.1 Testing Coordination**
 - Removed detailed scheduling procedures. Now points to T&D manual to avoid differing language. No procedures were altered.
- **Section 3.6.6 Allowance for Out-of-Period Reactive Capability Testing**
 - Clarified language throughout.
 - Out-of-Period tests can now be applied to the following year's requirements in certain cases.
- **Appendix A**
 - Removed legacy language (AVR)

3.2.1. Qualification Package

- Given its own subsection.
- Moved the NYISO contact information here from the end of Section 3.
- Clarified:
 - “Candidates that have been disqualified as VSS Suppliers need only to submit a new VSS Qualification Form, statement of intent, and whichever of the listed documents need revision, along with an explanation of changes.”
 - Necessary documents in list form:
 - A statement of intent to provide Voltage Support Services.
 - Generator, collector, turbine, or other producing unit documentation, including:
 - Original Equipment Manufacture name.
 - Manufacturer’s specifications sheet.
 - Documentation for the automatic voltage controlling equipment:
 - Original Equipment Manufacture name .
 - Manufacturer’s specification document.
 - Voltage regulation block diagram.
 - A plant level single line diagram as commissioned, depicting:
 - Point of interconnection.
 - Relevant telemetry locations.
 - A plot of the unit’s theoretical real (P) and reactive (Q) power capability at the point of interconnection (a PQ/capability curve).

3.6. Reactive Power Capability Testing or Demonstration

- Removed redundant instructions.
- Added reference to the Transmission & Dispatch Operations Manual, section 6.7.6. Rules for Resources Conducting Certain Scheduled Steady-State Tests.

3.6.1.2 Identical Treatment Units

- Given its own section for clarity.
- “Small, identical units at the same site may apply test results from one unit to another unit at the same site. In order to qualify for this treatment, the units must be electrically identical and must be less than 60 MW nameplate capacity each. Qualification to apply test results from one unit to another requires one-time submittal of the capability-curve and registration information for each unit, along with a request for this treatment, and pre-approval by the Manager of, Operations Engineering. The form to request this treatment is provided as Attachment A-2 Each year, only one identical treatment unit must be tested to represent the capabilities of each other identical treatment unit.”

3.6.1.3 Testing Periods

- Given its own section for clarity.
- Lagging test period: May 1 – Oct. 31 inclusive. (Remains unchanged)
- Leading test period: Jan. 1 – Oct. 31 inclusive. (Remains unchanged)
- Moved into this section the requirement that reactive capability demonstration results for the current and previous period be retained.

3.6.2.1 Testing Coordination

- Given its own section for clarity.
- Replaced the entire scheduling section with a reference to the Transmission & Dispatch Operations Manual section 6.7.6. Rules for Resources Conducting Certain Scheduled Steady-State Tests.
- No scheduling or coordination requirements are changed.

3.6.6 Allowance for Out-of-Period Reactive Capability Testing

- General clean-up for clarity.
- “There are six (6) conditions where NYISO, will provisionally accept testing for Voltage Support Service when that test is not conducted within the specified test or demonstration period. **If approved by the NYISO, the results of successful Out-of-Period Reactive Capability Testing can be used to satisfy the requirement to demonstrate reactive power capability for the following year.”**

Appendix A

- Replaced legacy term AVR with automatic voltage controlling equipment, to encompass IBRs.

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Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation