

Project 2007-09 Generator Verification Implementation Plan

Implementation Plan for MOD-025-2, Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability

Approvals Required

MOD-025-2, Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability

Prerequisite Approvals

None

~~Revisions to Approved Standards and Definitions~~ Glossary Terms

None

~~Replace all requirements of MOD-025-1 and retire all requirements of MOD-024-1.~~

Compliance with the Standard

Applicable Entities and Facilities ~~The following entities are responsible for being compliant with all requirements of MOD-025-2:~~

- Transmission Owner with synchronous condenser
- Generator Owner
- Facilities
 - Individual generating unit > greater than 20 MVA (gross nameplate rating) ~~in a~~ generating facility connected at the point of interconnection at 100 kV or above directly connected to the bulk power system.
 - Synchronous condenser greater than 20 MVA (gross nameplate rating) directly connected to the bulk power system.
 - Generating plant/facility > 75 MVA (gross aggregate nameplate rating) ~~and~~ connected at the point of interconnection at 100 kV or above directly connected to the bulk power system.

- ~~Blackstart Resources units, regardless of size that are included in a Blackstart Capability Plan.~~
- ~~Synchronous condensers greater than or equal to 50 MVA.~~

Conforming Changes to Other Standards

None

Effective Date

In those jurisdictions where regulatory approval is required:

- By the first day of the next calendar quarter, one calendar year following applicable regulatory approval each Generator Owner and Transmission Owner shall have verified at least 20% percent of its applicable units.
- By the first day of the next calendar quarter, two calendar years following applicable regulatory approval each Generator Owner and Transmission Owner shall have verified at least 40% percent of its applicable units.
- By the first day of the next calendar quarter, three calendar years following applicable regulatory approval each Generator Owner and Transmission Owner shall have verified at least 60% percent of its applicable units.
- By the first day of the next calendar quarter, four calendar years following applicable regulatory approval each Generator Owner and Transmission Owner shall have verified at least 80% percent of its applicable units.
- By the first day of the next calendar quarter, five calendar years following applicable regulatory approval each Generator Owner and Transmission Owner shall have verified 100% percent of its applicable units.

In those jurisdictions where regulatory approval is not required:

- By the first day of the next calendar quarter, one calendar year following Board of Trustees approval each Generator Owner and Transmission Owner shall have verified at least 20% percent of its applicable units.
- By the first day of the next calendar quarter, two calendar years following Board of Trustees approval each Generator Owner and Transmission Owner shall have verified at least 40% percent of its applicable units.
- By the first day of the next calendar quarter, three calendar years following Board of Trustees approval each Generator Owner and Transmission Owner shall have verified at least 60% percent of its applicable units.

- By the first day of the next calendar quarter, four calendar years following Board of Trustees approval each Generator Owner and Transmission Owner shall have verified at least 80% percent of its applicable units.
- By the first day of the next calendar quarter, five calendar years following Board of Trustees approval each Generator Owner and Transmission Owner shall have verified 100% percent of its applicable units.

The Implementation Plan phasing proposed is designed to allow large entities with dozens of units requiring verification an adequate amount of time to obtain resources and conduct testing to become fully compliant with standard requirements. The phase in period is set at five years with expectation at least 20% percent of an entities' applicable units will be verified annually with full compliance achieved by the end of the five year period. The 20% percent annual increment threshold was also selected to ensure that small entities with few units have incentive to become fully compliant in a timely manner and not delay verification of its applicable units until the fifth year of the phasing period.

Wind Farm Verification - If an entity has two wind sites, and verification of one site is complete, the entity is 50% complete regardless of the number of turbines at each site.

It is the intent of *ReliabilityFirst* to perform a review of both the MOD-024-RFC-01 and MOD-025-RFC-01 standards upon NERC Board of Trustees approval of the associated NERC MOD-025-2 standard. The purpose of the review would be to ensure that any duplicative requirements or any requirements which are less restrictive or do not add additional detail will be considered for retirement. The steps outlined in the *ReliabilityFirst* Reliability Standards Development Procedure will be followed for any such revisions or retirements.

Retirements

MOD-024-1 - Verification of Generator Gross and Net Real Power Capability and MOD-025-1 - Verification of Generator Gross and Net Reactive Power Capability should both be retired at midnight of the day immediately prior to the Effective Date of MOD-025-2 in the particular jurisdiction in which the new standard is becoming effective.