



AESO Reliability Standards Monthly Report

February 2010

MOD-024-2 – Verification and Data Reporting of Generator Real Power Capability

Purpose:

Draft 1 of the revised standard, posted for comment.

Current Standard:

MOD-024-1, Verification of Generator Gross and Net Real Power Capability, was approved by the NERC Board February 7, 2006. It has not been approved for enforcement under Section 215 by FERC because it contains "fill-in-the-blank" characteristics with responsibilities assigned to the Regional Reliability Organization.

Proposed Standard:

MOD-024-2 is part of NERC Project 2007-09.

New standards to be finalized as part of this project are:

PRC-019 — Coordination of Generator Voltage Regulator Controls with Unit Capabilities and Protection

PRC-024 — Generator Performance During Frequency and Voltage Excursions

MOD-026 — Verification of Models and Data for Generator Excitation System Functions

MOD-027 — Verification of Generator Unit Frequency Response

Standards to be revised as part of this project are:

MOD-024 — Verification of Generator Gross and Net Real Power Capability

MOD-025 — Verification of Generator Gross and Net Reactive Power Capability

The standards are to ensure that generators will not trip off-line during specified voltage and frequency excursions or as a result of improper coordination between generator protective relays and generator voltage regulator controls and limit functions (such coordination will include the generating unit's capabilities).

They will also ensure that generator models accurately reflect the generator's capabilities and operating characteristics.

All six of the standards included in this project address generator verifications needed to support bulk power system reliability. All six of the standards included in this project were originally "Phase III & IV Planning Measures" that were translated into new or a proposed standards as part of the Version 0 translation effort. Stakeholders have already agreed that there is a reliability-related need for each of these standards as part of the work performed in association with the Phase III & IV Modeling SAR. In addition, each of the standards included in this project has some "fill in the blank" requirements assigned to the Regional Reliability Organization that need to be replaced with more specific "continent-wide" requirements before the standards are approved.

Applicability:

Generator Owner, Planning Coordinator, Resource Planner and specified facilities

Current Status:

The standard was posted for comment until February 18, 2010. The AESO submitted comments as a member of the SRC, which can be seen using the link below.

NERC Link:

[Generator Verification](#)