



AESO Reliability Standards Monthly Report

April 2009

PRC-024-1 - Generator Frequency and Voltage Protective Relay Settings

Purpose:

Draft Proposed Standard, Version 1, posted for comment.

Current Standard:

PRC-024-1 is a new standard.

Proposed Standard:

PRC-024-1 is part of Project 2007-09, which includes six standards to address generator verifications needed to support bulk power system reliability, four proposed standards and revisions to two existing standards.

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 purpose of the project is:

- 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).
- To ensure that generator models accurately reflect the generator's capabilities and operating characteristics.

Applicability:

Generator Owners

Current Status:

The proposed standard was posted for comment period until April 2, 2009. The AESO submitted comments individually and as a member of the ISO/RTO Standards Review Committee (SRC). The comments can be seen using the link below.

NERC Link:

[Generator Frequency and Voltage Protective Relay Settings](#)