



AESO Reliability Standards Monthly Report

February 2010

TPL-001-1 - Transmission System Planning Performance Requirements

Purpose:

Draft 5, posted for ballot.

Current Standards:

There are currently 6 Version 0 TPL standards dealing with transmission system planning performance requirements: TPL-001-0 through TPL-006-0.

Proposed Standard:

TPL-001-1 is designed to be a single, comprehensive, and coordinated standard that merges the requirements of four existing standards: TPL-001-0, TPL-002-0, TPL-003-0, and TPL-004-0. The proposed standard includes several new definitions.

The purpose of the proposed standard is to establish transmission system planning performance requirements within the planning horizon to develop a bulk electric system that will operate reliably over a broad spectrum of system conditions and following a wide range of probable contingencies. The project includes updating and consolidating the following standards:

- TPL-001-0 — System Performance under Normal Conditions
- TPL-002-0 — System Performance Following Loss of a Single BES Element
- TPL-003-0 — System Performance Following Loss of Two or More BES Elements
- TPL-004-0 — System Performance Following Extreme BES Events
- TPL-005-0 — Regional and Interregional Self-Assessment Reliability Reports
- TPL-006-0 — Data from the Regional Reliability Organization Needed to Assess Reliability

This part of the project addresses TPL-001-0 through TPL-004-0. TPL-005 and TPL-006 will be addressed later in the project.

Applicability:

Transmission Planner, Planning Coordinator

Current Status:

The standard was posted for ballot until March 1, 2010. The AESO cast an affirmative ballot for the standard. The standard is going to recirculation ballot.

NERC Link:

[Assess Transmission and Future Needs](#)



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TOP-001-1 – Reliability Responsibilities and Authorities

Purpose:

Florida Municipal Power Pool request for interpretation posted for pre-ballot review.

Standard:

The standard was approved by the NERC Board of Trustees on November 1, 2006.

Request:

For Requirement R8 is the Balancing Authority responsibility to immediately take corrective action to restore Real Power Balance and is the TOP responsibility to immediately take corrective action to restore Reactive Power Balance?

NERC Interpretation:

The answer to both questions is yes. According to the NERC Glossary of Terms Used in Reliability Standards, the Transmission Operator is responsible for the reliability of its "local" transmission system, and operates or directs the operations of the transmission facilities. Similarly, the Balancing Authority is responsible for maintaining load-interchange-generation balance, i.e., real power balance. In the context of this requirement, the Transmission Operator is the functional entity that balances reactive power. Reactive power balancing can be accomplished by issuing instructions to the Balancing Authority or Generator Operators to alter reactive power injection. Based on NERC Reliability Standard BAL-005-1b Requirement R6, the Transmission Operator has no requirement to compute an Area Control Error (ACE) signal or to balance real power. Based on NERC Reliability Standard VAR-001-1 Requirement R8, the Balancing Authority is not required to resolve reactive power balance issues. According to TOP-001-1 Requirement R3, the Balancing Authority is only required to comply with Transmission Operator or Reliability Coordinator instructions to change injections of reactive power.

Applicability:

Balancing Authority, Distribution Provider, Transmission Operator, Generator Operator, Load Serving Entity

Current Status:

The interpretation was posted for pre-ballot review until March 1, 2010.

NERC Link:

[Reliability Responsibilities and Authorities RFI](#)