



AESO Reliability Standards Monthly Report

May 2010

PRC-004-1 Analysis & Mitigation of Transmission/Generation Protection System Misoperations PRC-005-1 Transmission & Generation Protection System Maintenance & Testing

Purpose:

Request for Interpretation, revised NERC interpretation.

Standard:

PRC-004-1 has been in effect since August 1, 2006 and PRC-005-1 since May 1, 2006. There is a WECC standard PRC-004-WECC-1.

Request:

The Y-W Electric Association, Inc. and Tri-State Generation and Transmission Association, Inc. request:

Y-WEA and Tri-State respectfully request an interpretation of the term "Transmission Protection System" and specifically whether protection for a radially-connected transformer protection system energized from the BES is considered a transmission Protection System and is subject to these standards.

NERC Interpretation:

The request for interpretation of PRC-004-1 Requirements R1 and R3 and PRC-005-1 Requirements R1 and R2 focuses on the applicability of the term "transmission Protection System." The NERC Glossary of Terms Used in Reliability Standards contains a definition of "Protection System" but does not contain a definition of transmission Protection System. In these two standards, use of the phrase transmission Protection System indicates that the requirements using this phrase are applicable to any Protection System that is installed for the purpose of detecting faults on transmission elements (lines, buses, transformers, etc.) identified as being included in the Bulk Electric System (BES) and trips an interrupting device that interrupts current supplied directly from the BES.

A Protection System for a radially connected transformer energized from the BES would be considered a transmission Protection System and subject to these standards only if the protection trips an interrupting device that interrupts current supplied directly from the BES and the transformer is a BES element.

Applicability:

Transmission Owner, Generator Owner, Distribution Provider that owns a transmission Protection System.

Current Status:

The interpretation was posted for ballot until May 10. The AESO voted in favour of the interpretation. There were negative votes with comments, which results in a recirculation ballot.

NERC Link:

[PRC-004-1 and PRC-005-1 RFI](#)