

PRC-004-AB-1 Analysis and Mitigation of Transmission and Generation Protection System Misoperation

1. Purpose

The purpose of this *reliability standard* is to ensure all transmission and generation *protection system misoperations* affecting the *reliability* of the *BES* are analyzed and mitigated.

2. Applicability

This *reliability standard* applies to:

- *ISO*
- *TFOs*
- *GFOs* with *protection systems* that directly affect the *reliability* of the *BES*. These *protection systems* include all those that measure voltage, current, or frequency from the generating unit to the *AIES*, but exclude the prime mover and associated control systems.

3. Definitions

Italicized terms used in this *reliability standard* have the meanings as set out in the [Alberta Reliability Standards Glossary of Terms](#) and Part 1 of the [ISO Rules](#).

4. Requirements

- R1** Each *TFO* and *GFO* must analyze its *protection system misoperations* and develop and implement a *corrective action plan* to avoid future *misoperations* of a similar nature.
- R2** Each *TFO* and *GFO* must provide to the *ISO* documentation of its *misoperations* analyses and *corrective action plans* upon request by the *ISO*.
- R3** The *ISO* must provide to *WECC* documentation of the *misoperations* analyses and *corrective action plans* upon request by *WECC*.

5. Processes and Procedures

No procedures have been defined for this *reliability standard*.

6. Measures

The following measures correspond to the requirements identified in Section 4 of this *reliability standard*. For example, MR1 is the measure for R1.

- MR1** Evidence exists and shows analysis was completed and *corrective action plans* were implemented as specified in requirement R1.

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MR2 Evidence that analysis reports and *corrective action plans* were submitted as specified in requirement R2 (e.g. email confirmation).

MR3 Confirmation that documentation as specified in requirement R3 was received by WECC or evidence that requests for confirmation were made.

7. Appendices

No appendices have been defined for this *reliability standard*.

8. Guidelines

No guidelines have been defined for this *reliability standard*.

Revision History

Effective	Description
2010-02-11	New Issue