

## **A. Introduction**

- 1. Title:** **Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems**
- 2. Number:** PRC-003-1
- 3. Purpose:** To ensure all transmission and generation Protection System Misoperations affecting the reliability of the Bulk Electric System (BES) are analyzed and mitigated.
- 4. Applicability**
  - 4.1.** Regional Reliability Organization
- 5. Effective Date:** May 1, 2006.

## **B. Requirements**

- R1.** Each Regional Reliability Organization shall establish, document and maintain its procedures for, review, analysis, reporting and mitigation of transmission and generation Protection System Misoperations. These procedures shall include the following elements:
  - R1.1.** The Protection Systems to be reviewed and analyzed for Misoperations (due to their potential impact on BES reliability).
  - R1.2.** Data reporting requirements (periodicity and format) for Misoperations.
  - R1.3.** Process for review, analysis follow up, and documentation of Corrective Action Plans for Misoperations.
  - R1.4.** Identification of the Regional Reliability Organization group responsible for the procedures and the process for approval of the procedures.
- R2.** Each Regional Reliability Organization shall maintain and periodically update documentation of its procedures for review, analysis, reporting, and mitigation of transmission and generation Protection System Misoperations.
- R3.** Each Regional Reliability Organization shall distribute procedures in Requirement 1 and any changes to those procedures, to the affected Transmission Owners, Distribution Providers that own transmission Protection Systems, and Generator Owners within 30 calendar days of approval of those procedures.

## **C. Measures**

- M1.** The Regional Reliability Organization shall have procedures for the review, analysis, reporting and mitigation of transmission and generation Protection System Misoperations as defined in R1.
- M2.** The Regional Reliability Organization shall have evidence it maintained and periodically updated its procedures for review, analysis, reporting and mitigation of transmission and generation Protection System Misoperations as defined in Requirement 2.
- M3.** The Regional Reliability Organization shall have evidence it provided its procedures for the review, analysis, reporting and mitigation of transmission and generation Protection System Misoperations to the affected Transmission Owners, Distribution Providers that own transmission Protection Systems, and Generator Owners as defined in Requirement 3.

## **D. Compliance**

- 1. Compliance Monitoring Process**

**1.1. Compliance Monitoring Responsibility**

NERC.

**1.2. Compliance Monitoring Period and Reset Time Frame**

One calendar year.

**1.3. Data Retention**

The Regional Reliability Organization shall retain documentation of its procedures for analysis of transmission and generation Protection System Misoperations and any changes to those procedures for three years.

The Compliance Monitor shall retain any audit data for three years.

**1.4. Additional Compliance Information**

The Regional Reliability Organization shall demonstrate compliance through self-certification or audit (periodic, as part of targeted monitoring or initiated by complaint or event), as determined by the Compliance Monitor.

**2. Levels of Non-Compliance**

**2.1. Level 1:** Procedures were not reviewed and updated within the review cycle period as required in R2.

**2.2. Level 2:** Procedures did not include one of the elements defined in R1.1 through R1.4.

**2.3. Level 3:** Procedures did not include two or more of the elements defined in R1.1 through R1.4.

**2.4. Level 4:** There shall be a level four non-compliance if either of the following conditions exist:

**2.4.1** No evidence of Procedures.

**2.4.2** Procedures were not provided to the affected Transmission Owners, Distribution Providers that own transmission Protection Systems, and Generator Owners as defined in R3.

**E. Regional Differences**

None identified.

**Version History**

| <b>Version</b> | <b>Date</b>      | <b>Action</b>   | <b>Change Tracking</b> |
|----------------|------------------|---|------------------------|
| 1              | December 1, 2005 | 1. Changed incorrect use of certain hyphens (-) to “en dash” (–) and “em dash (—).”<br>2. Added “periods” to items where appropriate.<br>3. Changed “Timeframe” to “Time Frame” in item D, 1.2. | 01/20/06               |