### A. Introduction

- 1. Title: Analysis and Mitigation of Transmission and Generation Protection System Misoperations
- **2. Number:** PRC-004-2.1a
- **3. Purpose:** 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. Transmission Owner.
- **4.2.** Distribution Provider that owns a transmission Protection System.
- 4.3. Generator Owner.
- 5. (Proposed) Effective Date: In those jurisdictions where regulatory approval is required, all requirements become effective upon approval. In those jurisdictions where no regulatory approval is required, all requirements become effective upon Board of Trustees' adoption.

### **B.** Requirements

- **R1.** The Transmission Owner and any Distribution Provider that owns a transmission Protection System shall each analyze its transmission Protection System Misoperations and shall develop and implement a Corrective Action Plan to avoid future Misoperations of a similar nature according to the Regional Entity's procedures.
- **R2.** The Generator Owner shall analyze its generator and generator interconnection Facility Protection System Misoperations, and shall develop and implement a Corrective Action Plan to avoid future Misoperations of a similar nature according to the Regional Entity's procedures.
- **R3.** The Transmission Owner, any Distribution Provider that owns a transmission Protection System, and the Generator Owner shall each provide to its Regional Entity, documentation of its Misoperations analyses and Corrective Action Plans according to the Regional Entity's procedures.

# C. Measures

- **M1.** The Transmission Owner, and any Distribution Provider that owns a transmission Protection System shall each have evidence it analyzed its Protection System Misoperations and developed and implemented Corrective Action Plans to avoid future Misoperations of a similar nature according to the Regional Entity's procedures.
- M2. The Generator Owner shall have evidence it analyzed its Protection System Misoperations and developed and implemented Corrective Action Plans to avoid future Misoperations of a similar nature according to the Regional Entity's procedures.
- M3. Each Transmission Owner, and any Distribution Provider that owns a transmission Protection System, and each Generator Owner shall have evidence it provided documentation of its Protection System Misoperations, analyses and Corrective Action Plans according to the Regional Entity's procedures.

## **D.** Compliance

#### 1. Compliance Monitoring Process

## **1.1. Compliance Enforcement Authority**

Regional Entity.

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

Not applicable.

#### **1.3.** Compliance Monitoring and Enforcement Processes:

**Compliance** Audits

Self-Certifications

Spot Checking

**Compliance Violation Investigations** 

Self-Reporting

Complaints

#### 1.4. Data Retention

The Transmission Owner, and Distribution Provider that own a transmission Protection System and the Generator Owner that owns a generation or generator interconnection Facility Protection System shall each retain data on its Protection System Misoperations and each accompanying Corrective Action Plan until the Corrective Action Plan has been executed or for 12 months, whichever is later.

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

#### 1.5. Additional Compliance Information

The Transmission Owner, and any Distribution Provider that owns a transmission Protection System and the Generator Owner shall demonstrate compliance through selfcertification or audit (periodic, as part of targeted monitoring or initiated by complaint or event), as determined by the Compliance Monitor.

## 2. Violation Severity Levels (no changes)

#### E. Regional Differences

None identified.

## **Version History**

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
1	December 1, 2005	<ol> <li>Changed incorrect use of certain hyphens (-) to "en dash" (-) and "em dash ()."</li> <li>Added "periods" to items where appropriate. Changed "Timeframe" to "Time Frame" in item D, 1.2.</li> </ol>	01/20/06
2	TBD	Modified to address Order No. 693 Directives contained in paragraph 1469.	Revised.
2.1a	XX	Errata change: Edited R2 to add "and generator interconnection Facility"	Revision under Project 2010-07