

**A. Introduction**

- 1. Title:** Special Protection System Maintenance and Testing
- 2. Number:** PRC-017-0
- 3. Purpose:** To ensure that all Special Protection Systems (SPS) are properly designed, meet performance requirements, and are coordinated with other protection systems. To ensure that maintenance and testing programs are developed and misoperations are analyzed and corrected.
- 4. Applicability:**
  - 4.1.** Transmission Owner that owns an SPS
  - 4.2.** Generator Owner that owns an SPS
  - 4.3.** Distribution Provider that owns an SPS
- 5. Effective Date:** April 1, 2005

**B. Requirements**

- R1.** The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have a system maintenance and testing program(s) in place. The program(s) shall include:
  - R1.1.** SPS identification shall include but is not limited to:
    - R1.1.1.** Relays.
    - R1.1.2.** Instrument transformers.
    - R1.1.3.** Communications systems, where appropriate.
    - R1.1.4.** Batteries.
  - R1.2.** Documentation of maintenance and testing intervals and their basis.
  - R1.3.** Summary of testing procedure.
  - R1.4.** Schedule for system testing.
  - R1.5.** Schedule for system maintenance.
  - R1.6.** Date last tested/maintained.
- R2.** The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall provide documentation of the program and its implementation to the appropriate Regional Reliability Organizations and NERC on request (within 30 calendar days).

**C. Measures**

- M1.** The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have a system maintenance and testing program(s) in place that includes all items in Reliability Standard PRC-017-0\_R1.
- M2.** The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have evidence it provided documentation of the program and its implementation to the appropriate Regional Reliability Organizations and NERC on request (within 30 calendar days).

## **D. Compliance**

### **1. Compliance Monitoring Process**

#### **1.1. Compliance Monitoring Responsibility**

Compliance Monitor – British Columbia Utilities Commission

Compliance Monitor's Administrator – Western Electricity Coordinating Council

#### **Timeframe:**

On request (30 calendar days.)

#### **1.2. Compliance Monitoring Period and Reset Timeframe**

Compliance Monitor: Regional Reliability Organization.

#### **1.3. Data Retention**

None specified.

#### **1.4. Additional Compliance Information**

None.

### **2. Levels of Non-Compliance**

**2.1. Level 1:** Documentation of the maintenance and testing program was incomplete, but records indicate implementation was on schedule.

**2.2. Level 2:** Complete documentation of the maintenance and testing program was provided, but records indicate that implementation was not on schedule.

**2.3. Level 3:** Documentation of the maintenance and testing program was incomplete, and records indicate implementation was not on schedule.

**2.4. Level 4:** Documentation of the maintenance and testing program, or its implementation, was not provided.

## **E. Regional Differences**

None identified.