

Standard PRC-017-1 — Remedial Action Scheme Maintenance and Testing

A. Introduction

1. **Title:** Remedial Action Scheme Maintenance and Testing
2. **Number:** PRC-017-1
3. **Purpose:** To ensure that all Remedial Action Schemes (RAS) 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 a RAS
 - 4.2. Generator Owner that owns a RAS
 - 4.3. Distribution Provider that owns a RAS
5. **Effective Date*:** See Implementation Plan for the Revised Definition of “Remedial Action Scheme”

B. Requirements

- R1. The Transmission Owner, Generator Owner, and Distribution Provider that owns a RAS shall have a system maintenance and testing program(s) in place. The program(s) shall include:
 - R1.1. RAS 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 a RAS 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 a RAS shall have a system maintenance and testing program(s) in place that includes all items in Reliability Standard PRC-017-1_R1.
- M2. The Transmission Owner, Generator Owner, and Distribution Provider that owns a RAS 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).

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D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

The British Columbia Utilities Commission

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

1. None identified.

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
1	November 13, 2014	Adopted by the NERC Board of Trustees	Replaced references to Special Protection System and SPS with Remedial Action Scheme and RAS
1	November 19, 2015	FERC Order issued approving PRC-017-1. Docket No. RM15-13-000.	