

A. Introduction

- 1. Title:** Define and Document Disturbance Monitoring Equipment Requirements.
- 2. Number:** PRC-002-0
- 3. Purpose:** To ensure that Disturbance monitoring equipment is installed in a uniform manner to facilitate development of models and analyses of events.
- 4. Applicability:**
 - 4.1.** Regional Reliability Organization
- 5. Effective Date:** April 1, 2005

B. Requirements

- R1.** The Regional Reliability Organization shall develop comprehensive requirements for the installation of Disturbance monitoring equipment to ensure data is available to determine system performance and the causes of System Disturbances. The comprehensive requirements shall include all of the following:
 - R1.1.** Type of data recording capability (e.g., sequence-of-event, Fault recording, dynamic Disturbance recording).
 - R1.2.** Equipment characteristics including but not limited to:
 - R1.2.1.** Recording duration requirements.
 - R1.2.2.** Time synchronization requirements.
 - R1.2.3.** Data format requirements.
 - R1.2.4.** Event triggering requirements
 - R1.3.** Monitoring, recording, and reporting capabilities of the equipment.
 - R1.3.1.** Voltage.
 - R1.3.2.** Current.
 - R1.3.3.** Frequency.
 - R1.3.4.** MW and/or MVAR, as appropriate.
 - R1.4.** Data retention capabilities (e.g., length of time data is to be available for retrieval).
 - R1.5.** Regional coverage requirements (e.g., by voltage, geographic area, electric area or subarea).
 - R1.6.** Installation requirements:
 - R1.6.1.** Substations.
 - R1.6.2.** Transmission lines.
 - R1.6.3.** Generators.
 - R1.7.** Responsibility for maintenance and testing.
 - R1.8.** Requirements for periodic (at least every five years) updating, review, and approval of the Regional requirements.
- R2.** The Regional Reliability Organization shall provide its requirements for the installation of Disturbance monitoring equipment to other Regional Reliability Organizations and NERC on request (30 calendar days).

C. Measures

- M1.** The Regional Reliability Organization’s requirements for the installation of Disturbance monitoring equipment shall address all elements listed in Reliability Standard PRC-002-0_R1.
- M2.** The Regional Reliability Organization shall have evidence it provided its requirements for the installation of Disturbance monitoring equipment to other Regional Reliability Organizations and NERC on request (30 calendar days).

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Compliance Monitor: NERC.

1.2. Compliance Monitoring Period and Reset Timeframe

On request by NERC (30 calendar days.)

1.3. Data Retention

None specified.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

- 2.1. Level 1:** The Regional Reliability Organization’s Disturbance monitoring requirements do not address one of the eight requirements contained in Reliability Standard PRC-002-0_R1.
- 2.2. Level 2:** The Regional Reliability Organization’s Disturbance monitoring requirements do not address two of the eight requirements contained in Reliability Standard PRC-002-0_R1.
- 2.3. Level 3:** The Regional Reliability Organization’s Disturbance monitoring requirements do not address three of the eight requirements contained in Reliability Standard PRC-002-0_R1.
- 2.4. Level 4:** The Regional Reliability Organization’s Disturbance monitoring requirements were not provided or do not address four or more of the eight requirements contained in Reliability Standard PRC-002-0_R1.

E. Regional Differences

- 1.** None identified.

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New