

**A. Introduction**

- 1. Title:** Under-Voltage Load Shedding Program Data
- 2. Number:** PRC-021-1
- 3. Purpose:** Ensure data is provided to support the Regional database maintained for Under-Voltage Load Shedding (UVLS) programs that were implemented to mitigate the risk of voltage collapse or voltage instability in the Bulk Electric System (BES).
- 4. Applicability**
  - 4.1.** Transmission Owner that owns a UVLS program.
  - 4.2.** Distribution Provider that owns a UVLS program.
- 5. Effective Date:** August 1, 2006

**B. Requirements**

- R1.** Each Transmission Owner and Distribution Provider that owns a UVLS program to mitigate the risk of voltage collapse or voltage instability in the BES shall annually update its UVLS data to support the Regional UVLS program database. The following data shall be provided to the Regional Reliability Organization for each installed UVLS system:
  - R1.1.** Size and location of customer load, or percent of connected load, to be interrupted.
  - R1.2.** Corresponding voltage set points and overall scheme clearing times.
  - R1.3.** Time delay from initiation to trip signal.
  - R1.4.** Breaker operating times.
  - R1.5.** Any other schemes that are part of or impact the UVLS programs such as related generation protection, islanding schemes, automatic load restoration schemes, UFLS and Special Protection Systems. .
- R2.** Each Transmission Owner and Distribution Provider that owns a UVLS program shall provide its UVLS program data to the Regional Reliability Organization within 30 calendar days of a request.

**C. Measures**

- M1.** Each Transmission Owner and Distribution Provider that owns a UVLS program shall have documentation that its UVLS data was updated annually and includes all items specified in Requirement 1.1 through 1.5.
- M2.** Each Transmission Owner and Distribution Provider that owns a UVLS program shall have evidence it provided the Regional Reliability Organization with its UVLS program data within 30 calendar days of a request.

**D. Compliance**

- 1. Compliance Monitoring Process**
  - 1.1. Compliance Monitoring Responsibility**

Regional Reliability Organization.
  - 1.2. Compliance Monitoring Period and Reset Time Frame**

One calendar year.
  - 1.3. Data Retention**

Each Transmission Owner and Distribution Provider that owns a UVLS program shall retain a copy of the data submitted over the past two years.

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

**1.4. Additional Compliance Information**

Transmission Owner and Distribution Provider 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:** Did not update its UVLS data annually.

**2.2. Level 2:** UVLS data was provided, but did not address one of the items identified in R1.1 through R1.5.

**2.3. Level 3:** UVLS data was provided, but did not address two or more of the items identified in R1.1 through R1.5.

**2.4. Level 4:** Did not provide any UVLS data.

**E. Regional Differences**

None identified.

**Version History**

<b>Version</b>	<b>Date</b>	<b>Action</b>	<b>Change Tracking</b>
1	12/01/05	<ol style="list-style-type: none"> <li>1. Removed comma after 2004 in “Development Steps Completed,” #1.</li> <li>2. Changed incorrect use of certain hyphens (-) to “en dash” (–) and “em dash (—).”</li> <li>3. Added heading above table “Future Development Plan.”</li> <li>4. Lower cased the word “region,” “board,” and “regional” throughout document where appropriate.</li> <li>5. Added or removed “periods” where appropriate.</li> <li>6. Changed “Timeframe” to “Time Frame” in item D, 1.2.</li> </ol>	01/20/05