A. Introduction

1. Title: **Under-Voltage Load Shedding Program Database**

2. Number: PRC-020-1

3. Purpose: Ensure that a regional database is maintained for Under-Voltage Load Shedding (UVLS) programs implemented by entities within the Region to mitigate the risk of voltage collapse or voltage instability in the Bulk Electric System (BES). Ensure the UVLS database is available for Regional studies and for dynamic studies and simulations of the BES.

4. Applicability

4.1. Regional Reliability Organization with entities that own or operate a UVLS program.

5. Effective Date: May 1, 2006

B. Requirements

R1. The Regional Reliability Organization shall establish, maintain and annually update a database for UVLS programs implemented by entities within the region to mitigate the risk of voltage collapse or voltage instability in the BES. This database shall include the following items:

R1.1. Owner and operator of the UVLS program.

R1.2. Size and location of customer load, or percent of connected load, to be interrupted.

R1.3. Corresponding voltage set points and overall scheme clearing times.

R1.4. Time delay from initiation to trip signal.

R1.5. Breaker operating times.

R1.6. 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. The Regional Reliability Organization shall provide the information in its UVLS database to the Planning Authority, the Transmission Planner, or other Regional Reliability Organizations and to NERC within 30 calendar days of a request.

C. Measures

M1. The Regional Reliability Organization shall have evidence that it established and annually updated its UVLS database to include all elements in Requirement 1.1 through 1.6.

M2. The Regional Reliability Organization shall have evidence that it provided the information in its UVLS database to the requesting entities and to NERC in accordance with Requirement 2.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

NERC

1.2. Compliance Monitoring Period and Reset Time Frame

One calendar year.

1.3. Data Retention

The Regional Reliability Organization shall retain the current and prior annual updated database. The Compliance Monitor shall retain all audit data for three years.

1.4. Additional Compliance Information

The Regional Reliability Organization 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 database annually.

2.2. Level 2: UVLS program database information provided, but did not include all of the items identified in R1.1 through R1.6.

2.3. Level 3: Not applicable.

2.4. Level 4: Did not provide information from its UVLS program database.

E. Regional Differences

None identified.

Version History

Version	Date	Action	Change Tracking
1	12/01/05	1. Removed comma after 2004 in "Development Steps Completed," #1. 2. Changed incorrect use of certain hyphens (-) to "en dash" (–) and "em dash (—)." 3. Lower cased the word "region," "board," and "regional" throughout document where appropriate. 4. Added or removed "periods" where appropriate. 5. Changed "Timeframe" to "Time Frame" in item D, 1.2.	01/20/06