

## **PRC-022-AB-1 Under Voltage Load Shedding Program Performance**

### **1. Purpose**

The purpose of this *reliability standard* is to ensure that *UVLS* programs perform as intended to mitigate the risk of voltage collapse or voltage instability in the *AIES*.

### **2. Applicability**

This *reliability standard* applies to:

- *ISO*

### **3. Definitions**

Italicized terms used in this *reliability standard* have the meanings as set out in the [Alberta Reliability Standards Glossary of Terms](#) and Part 1 of the [ISO Rules](#).

### **4. Requirements**

- R1** The *ISO* must analyze and document *UVLS* operations and *misoperations* in accordance with *ISO* rules.
- R2** The *ISO*'s analysis of *UVLS* operations and *misoperations* must include without limitation, the following:
- A description of the *UVLS* event including initiating conditions.
  - A review of the *UVLS* set points and tripping times.
  - An analysis of the sequence of events.
  - A summary of the findings.
  - For any *misoperation*, a corrective action.
- R3** The *ISO* must simulate the *UVLS* event, within the timeframe agreed to by the *ISO*, if *WECC* makes a written request for a simulation.
- R4** The *ISO* must provide documentation of its analysis of a *UVLS* program performance to the *WECC* within 90 calendar *days* of a request from *WECC*.

### **5. Processes and Procedures**

No procedures have been defined for this *reliability standard*.

### **6. Measures**

The following measures correspond to the requirements identified in Section 4 of this *reliability standard*. For example, MR1 is the measure for R1.

- MR1** Event reports exist for *UVLS* events that require a report in accordance with *ISO* rules.

**MR2** Documentation of the analysis includes the items listed in R2.

**MR3** Results of the simulation exists.

**MR4** Written confirmation from the *WECC* that documentation was received within 90 calendar *days*.

## 7. Appendices

No appendices have been defined for this *reliability standard*.

## 8. Guidelines

No guidelines have been defined for this *reliability standard*.

## Revision History

| Effective  | Description |
|------------|-------------|
| 2009-10-03 | New Issue   |