

## **FAC-001-AB-0 Facility Connection Requirements**

### **1. Purpose**

The purpose of this *reliability standard* is to establish connection and performance requirements for *facilities* connecting to 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 document transmission *interconnection* requirements to comply with all *reliability standards*. The *ISO*'s transmission *interconnection* requirements must address connection requirements for:

**R1.1** Generating units

**R1.2** *Transmission facilities*

**R1.3** *Transmission connected end-use customer's facilities*

**R2** The *ISO*'s transmission *interconnection* requirements or project functional specification must address, but is not limited to, the following items:

**R2.1** Voltage level and *MW* and *MVAR* capacity or *demand* at point of connection

**R2.2** Breaker duty and *surge* protection

**R2.3** *System* protection and coordination

**R2.4** Metering and telecommunications

**R2.5** Grounding and safety issues

**R2.6** Insulation and insulation coordination

**R2.7** Voltage, *reactive power*, and *power factor* control

**R2.8** Power quality impacts

**R2.9** Equipment *ratings*

**R2.10** Synchronizing of *facilities*

**R2.11** Maintenance coordination

**R2.12** Operational issues (abnormal frequency and voltages)

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**R2.13** Inspection requirements for existing or new *facilities*

**R2.14** Communications and procedures during normal and emergency operating conditions

**R3** The *ISO* must assess the long term implications to the AIES of any facility to be connected to it.

**R4** The *ISO* must maintain and update as required and post on its website its transmission *interconnection* requirements.

### 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** The *ISO* transmission *interconnection* requirements include requirements for generating units, *transmission facilities* and *transmission connected end use customer facilities*.

The *ISO* transmission *interconnection* requirements include content that is compliant and consistent with all *reliability standards*.

**MR2** The *ISO* transmission *interconnection* requirements or project functional specifications contain information addressing each item identified in R2.

**MR3** The assessment made in R3 is included in either the transmission *interconnection* requirements or project functional specification.

**MR4** The *ISO* transmission *interconnection* requirements are posted on its website.

A revision history for the *ISO* transmission *interconnection* requirements shows that updates were made for each change to *reliability standards*, as appropriate.

Changes to the *ISO* transmission *interconnection* requirements are completed within 12 months of the *Commission* approving a change in the *reliability standards*.

### 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
0000-00-00	
0000-00-00	