

1. Purpose

The purpose of this **reliability standard** is to ensure the **ISO** and entities subject to this **reliability standard** have adequate communications and that these communications capabilities are staffed and available for addressing a real-time emergency condition, and to ensure communications by operating personnel are effective.

2. Applicability

This **reliability standard** applies to:

- (a) the **operator** of a **generating unit** that is:
 - (i) directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat; and
 - (ii) not part of an **aggregated generating facility**;
- (b) the **operator** of an **aggregated generating facility** that is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (c) the **operator** of a **transmission facility**; and
- (d) the **ISO**.

3. Requirements

R1 The **ISO** must have voice and data communication facilities with:

- (a) each **operator** of a **transmission facility**;
- (b) each adjacent **interconnected transmission operator** directly connected to Alberta; [and](#)
- (c) each **adjacent balancing authority** directly connected to Alberta; [and](#)
- ~~(d) the **WECC Reliability Coordinator**.~~

R2 The **operator** of a **transmission facility** must have voice and data communication facilities with:

- (a) each adjacent **operator** of a **transmission facility**;
- (b) each adjacent **interconnected transmission operator** directly connected to Alberta; and
- (c) the **ISO**.

R3 Each **operator** of a **generating unit** and each **operator** of an **aggregated generating facility** must have voice and data communication facilities with:

- (a) each **operator** of a **transmission facility** to which it is directly connected; and
- (b) the **ISO**.

R4 The **ISO**, each **operator** of a **transmission facility**, each **operator** of an **aggregated generating facility** and each **operator** of a **generating unit** must have personnel available for all hours of the **day**, seven (7) **days** a week, to receive and respond to any voice or data communication regarding a real-time **system emergency** condition via the communication facilities as identified in requirements R1 through R3.

R5 The **ISO** must notify ~~the **WECC Reliability Coordinator**, and all **other**~~ potentially affected adjacent **interconnected transmission operators** and **adjacent balancing authorities** through predetermined

communication paths:

- (a) of any threat to the **reliability** of the **interconnected electric system**; or
- (b) if the **ISO** anticipates shedding **firm load**.

R6 The **ISO** must, when issuing a verbal **directive**, do so in a clear, concise and definitive manner, identify the instruction as a **directive**, and:

- (a) if the recipient of the **directive** does not respond by repeating the information in the **directive**, then the **ISO** must request the recipient to repeat the information in the **directive**;
- (b) if the information in the response is not correct, the **ISO** must repeat the **directive** to resolve any misunderstandings; and
- (c) if the information is repeated correctly, the **ISO** must acknowledge this to the recipient.

4. Measures

The following measures correspond to the requirements identified in section 3 of this **reliability standard**. For example, MR1 is the measure for R1.

MR1 Evidence of having voice and data communication facilities as required in requirement R1 exists. Evidence may include a list of communication facilities or other equivalent evidence that confirms that the communications have been provided.

MR2 Evidence of having voice and data communications as required in requirement R2 exists. Evidence may include a list of communication facilities or other equivalent evidence that confirms that the communications have been provided.

MR3 Evidence of having voice and data communications as required in requirement R3 exists. Evidence may include a list of communication facilities or other equivalent evidence that confirms that the communications have been provided.

MR4 Evidence of having personnel available as required in requirement R4 exists. Evidence may include **operator** logs, timesheets, on-call lists or shift schedules.

MR5 Evidence of notifying entities as required in requirement R5 exists. Evidence may include **operator** logs or voice recordings.

MR6 Evidence of issuing verbal **directives** as required in requirement R6 exists. Evidence may include voice recordings or **operator** logs.

Revision History

Effective	Description
2013-10-01	Initial r Release
2014-01-01 2014-01-01	Administrative update to standardize formatting, definitions and drafting style. -Removed references to the WECC Reliability Coordinator.