

## 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;

**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 all 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 release   |
| 2014-01-01 | Administrative update to standardize formatting, definitions and drafting style.<br>Removed references to the WECC Reliability Coordinator. |