

1. Purpose

The purpose of this **reliability standard** is to establish interpersonal communication capabilities necessary to maintain reliability.

2. Applicability

This **reliability standard** applies to:

- (a) the **operator** of a **transmission facility**;
- (b) the **operator** of a **generating unit** that is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (c) the **operator** of an **aggregated generating facility** directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (d) the **operator** of an **electric distribution system**, that is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat; and
- (e) the **ISO**.

3. Requirements

R1 The **ISO** must, as it determines to be necessary to maintain reliability, have primary interpersonal communication capability with the following entities, unless the **ISO** detects a failure of its primary interpersonal communication capability, in which case requirement R10 applies:

- (a) each **operator** of a **transmission facility** within its area;
- (b) each adjacent **reliability coordinator** within the **WECC**;
- (c) each **operator** of an **electric distribution system** within its area and is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (d) each **operator** of **generating unit** within its area and is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (e) each operator of an **aggregated generating facility** within its area and is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (f) each **adjacent balancing authority**; and
- (g) each adjacent interconnected transmission operator.

R2 The **ISO** must designate a backup interpersonal communication capability with the following entities:

- (a) each **operator** of a **transmission facility** within its area, as the **ISO** determines to be necessary to maintain reliability;
- (b) each **adjacent balancing authority**; and
- (c) each adjacent **reliability coordinator** within the **WECC**.

R3 Each **operator** of a **transmission facility** must have primary interpersonal communication capability with the following entities, unless the **operator** of a **transmission facility** detects a failure of its primary interpersonal communication capability in which case requirement R10 shall apply:

- (a) the **ISO**;
- (b) each **operator** of an **electric distribution system** within its area and is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (c) each **operator** of **generating unit** within its area and is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;

- (d) each operator of an **aggregated generating facility** within its area and is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat;
- (e) each adjacent **operator** of a **transmission facility** that is synchronously connected; and
- (f) each adjacent **operator** of a **transmission facility** that is asynchronously connected.

R4 Each **operator** of a **transmission facility** must designate a backup interpersonal communication capability with the following entities:

- (a) the **ISO**;
- (b) each adjacent **operator** of a **transmission facility** that is synchronously connected; and
- (c) each adjacent **operator** of a **transmission facility** that is asynchronously connected.

R5 Intentionally left blank.

R6 Intentionally left blank.

R7 Each **operator** of an **electric distribution system** must have primary interpersonal communication capability with the following entities, unless the **operator** of an **electric distribution system** detects a failure of its primary interpersonal communication capability in which case requirement R11 shall apply:

- (a) the **ISO**; and
- (b) the **operator** of a **transmission facility** to which it connects.

R8 Each **operator** of a **generating unit** and **operator** of an **aggregated generating facility** must have primary interpersonal communication capability with the following entities, unless the **operator** of a **generating unit** or **operator** of an **aggregated generating facility** detects a failure of its primary interpersonal communication capability in which case requirement R11 applies:

- (a) the **ISO**; and
- (b) the **operator** of a **transmission facility** to which it connects.

R9 The **ISO** and each **operator** of a **transmission facility** must test its backup interpersonal communication capability at least once each calendar month. If the test is unsuccessful, the responsible entity must initiate action to repair or designate a replacement backup interpersonal communication capability, which does not utilize the same infrastructure as interpersonal communication used for day-to-day operation, within 2 hours.

R10 The **ISO** and each **operator** of a **transmission facility** must notify entities as identified in requirements R1 and R3, respectively within 60 minutes of the detection of a failure of its primary interpersonal communication capability that lasts 30 minutes or longer.

R11 Each **operator** of an **electric distribution system**, **operator** of a **generating unit** and **operator** of an **aggregated generating facility** that detects a failure of its primary interpersonal communication capability must consult each entity affected by the failure, as identified in requirement R7 for an **operator** of an **electric distribution system** or requirement R8 for an **operator** of a **generating unit** or **operator** of an **aggregated generating facility**, to determine a mutually agreeable action for the restoration of its primary interpersonal communication capability.

R12 The **ISO** and each **operator** of a **transmission facility**, **operator** of a **generating unit** and **operator** of an **aggregated generating facility** must have internal primary interpersonal communication capabilities for the exchange of information necessary for the reliable operation of the **transmission system** and the City of Medicine Hat electric system. This includes interpersonal primary interpersonal communication capabilities between **control centres** within the same functional entity and between a **control centre** and field personnel.

R13 Each **operator** of an **electric distribution system** that is directly connected to the **transmission system** or to **transmission facilities** within the City of Medicine Hat; must have internal primary interpersonal communication capabilities for the exchange of information necessary for the reliable operation of the **transmission system** and the City of Medicine Hat electric system. This includes communication capabilities between **control centres** within the same functional entity, and between a **control centre** and field personnel.

4. Measures

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

MR1 Evidence of having primary interpersonal communication capability as required in requirement R1 exists. Evidence may include physical assets, dated evidence, such as, equipment specifications and installation documentation, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

MR2 Evidence of designating a backup interpersonal communication capability as required in requirement R2 exists. Evidence may include physical assets, or dated evidence, such as, equipment specifications and installation documentation, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

MR3 Evidence of having primary interpersonal communication capability as required in requirement R3 exists. Evidence may include physical assets, dated evidence, such as, equipment specifications and installation documentation, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

MR4 Evidence of designating a backup interpersonal communication capability as required in requirement R4 exists. Evidence may include physical assets, or dated evidence, such as, equipment specifications and installation documentation, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

MR5 Intentionally left blank.

MR6 Intentionally left blank.

MR7 Evidence of having primary interpersonal communication capability as required in requirement R7 exists. Evidence may include physical assets, dated evidence, such as, equipment specifications and installation documentation, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

MR8 Evidence of having primary interpersonal communication capability as required in requirement R8 exists. Evidence may include physical assets, dated evidence, such as, equipment specifications and installation documentation, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

MR9 Evidence of testing backup interpersonal communication capability as required in requirement R9 exists. Evidence may include dated and time-stamped test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

Evidence of initiating action to repair or designate a replacement of backup interpersonal communication capability, which does not utilize the same infrastructure as interpersonal communication used for day-to-day operation, as required in requirement R9 exists. Evidence may include dated and time-stamped test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

- MR10** Evidence of notifying entities as required in requirement R10 exists. Evidence may include dated and time-stamped test records, **operator** logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.
- MR11** Evidence of consulting with each entity affected by the failure of its primary interpersonal communication capability as required in requirement R11 exists. Evidence may include dated **operator** logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.
- MR12** Evidence of having internal primary interpersonal communication capability as required in requirement R12 exists. Evidence may include physical assets, or dated evidence, such as, equipment specifications and installation documentation, operating procedures, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.
- MR13** Evidence of having internal primary interpersonal communication capability as required in requirement R13 exists. Evidence may include physical assets, or dated evidence, such as, equipment specifications and installation documentation, operating procedures, test records, operator logs, voice recordings, transcripts of voice recordings, or electronic communications or other equivalent evidence.

Revision History

Date	Description
xxxx-xx-xx	Initial release.