

Alberta Reliability Standard Transmission Maintenance FAC-501-WECC-AB2-1



1. Purpose

The purpose of this **reliability standard** is to ensure the **legal owner** of a **transmission facility** of a major transmission path, including any associated **transmission facility**, has a *Transmission Maintenance and Inspection Plan* such that a reliable path is available.

2. Applicability

This **reliability standard** applies to the **legal owner** of a **transmission facility** that is, or is part of, a major transmission path identified in the table “*Major WECC Transfer Paths in the Bulk Electric System*” as provided by the **WECC**.

3. Requirements

R1 The *Transmission Maintenance and Inspection Plan* of the **legal owner** of a **transmission facility** must detail its inspection and maintenance requirements and must apply to each **transmission facility** that is associated with each of the transmission paths identified by the **ISO**.

R1.1 The **legal owner** of a **transmission facility** must review its *Transmission Maintenance and Inspection Plan* annually and update it as required.

R1.2 The **legal owner** of a **transmission facility** must annually submit its *Transmission Maintenance and Inspection Plan* and any updates to the **ISO**.

R2 The *Transmission Maintenance and Inspection Plan* of the **legal owner** of a **transmission facility** must include without limitation the following maintenance categories:

R2.1 Transmission line maintenance details:

R.2.1.1 patrol/inspection;

R.2.1.2 contamination control; and

R.2.1.3 tower and wood pole structure management;

R2.2 Station maintenance details:

R.2.2.1 inspections;

R.2.2.2 contamination control; and

R.2.2.3 equipment maintenance for the following:

(a) circuit breakers;

(b) power transformers (including phase-shifting transformers);

(c) regulators; and

Alberta Reliability Standard Transmission Maintenance FAC-501-WECC-AB2-1



(d) **reactive power** devices (including, but not limited to, shunt capacitors, series capacitors, static VAR compensators, synchronous condensers, shunt reactors, and tertiary reactors).

R3 The maintenance practices of the **legal owner** of a **transmission facility** in the *Transmission Maintenance and Inspection Plan* must be either performance-based, time-based, or condition-based, or a combination of all three (3).

The *Transmission Maintenance and Inspection Plan* of the **legal owner** of a **transmission facility** must include scheduled intervals for any time-based maintenance activities and/or a description supporting condition or performance-based maintenance practices including a description of the condition or performance based trigger.

R4 The **legal owner** of a **transmission facility** must implement its *Transmission Maintenance and Inspection Plan* and retain records that demonstrate such implementation including without limitation the following:

R4.1 The names of individual or crew members responsible for performing the work or inspection;

R4.2 The date(s) the work or inspection was performed;

R4.3 The **transmission facility** on which the work or inspection was performed; and

R4.4 A description of the inspection or maintenance performed.

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 A documented *Transmission Maintenance and Inspection Plan* as identified in requirement R1 exists and covers each **transmission facility** as identified by the **ISO**.

MR1.1 Evidence exists that shows the **legal owner** of a **transmission facility** reviewed their *Transmission Maintenance and Inspection Plan* annually and updated it as needed.

MR1.2 The *Transmission Maintenance and Inspection Plan* and updates, if any, are received by the **ISO** annually.

MR2 The *Transmission Maintenance and Inspection Plan* addresses the required maintenance details of requirement R2.

MR3 The *Transmission Maintenance and Inspection Plan* addresses the items in requirement R3.

Alberta Reliability Standard Transmission Maintenance FAC-501-WECC-AB2-1



MR4 Records exist that show the **legal owner** of a **transmission facility** implemented and followed its *Transmission Maintenance and Inspection Plan* .

Revision History

Effective	Description
2015-07-01	Transmission paths identified by the AESO for the purposes of requirement R1 updated to include new Bennett 520S equipment and 632 Russell equipment and moved from the Appendix to another document. Administrative update to standardize formatting, definitions and drafting style.
2012-12-17	Administrative update – “TFO” replaced with “ <i>legal owner of a transmission facility</i> ”; and other minor clean up items.
2010-09-10	Initial Release