

Alberta Reliability Standard

Reliability Coordinator Actions to Operate Within Interconnection Reliability Operating Limits

IRO-009-AB-1



1. Purpose

To prevent instability, uncontrolled separation, or **cascading** that adversely impact the reliability of the **Interconnection** by ensuring prompt action to prevent or mitigate instances of exceeding **interconnection reliability operating limits**.

2. Applicability

This **reliability standard** applies to:

(a) the **ISO**.

3. Requirements

- R1** For each **interconnection reliability operating limit** that the **ISO** identifies one or more days prior to the current day, the **ISO** must have one or more operating processes, operating procedures, or operating plans that identify actions to take or actions to direct others to take (up to and including load shedding) that can be implemented in time to prevent exceeding those **interconnection reliability operating limits**.
- R2** For each **interconnection reliability operating limit** that the **ISO** identifies one or more days prior to the current day, the **ISO** must have one or more operating processes, operating procedures, or operating plans that identify actions to take or actions to direct others to take (up to and including load shedding) to mitigate the magnitude and duration of exceeding that **interconnection reliability operating limit** such that the **interconnection reliability operating limit** is relieved within the **interconnection reliability operating limit's** T_v .
- R3** When an assessment of actual or expected system conditions predicts that an **interconnection reliability operating limit** in its area will be exceeded, the **ISO** must implement one or more operating processes, operating procedures or operating plans (not limited to the operating processes, operating procedures, or operating plans developed for requirement R1) to prevent exceeding that **interconnection reliability operating limit**.
- R4** When actual system conditions show that there is an instance of exceeding an **interconnection reliability operating limit** in its area, the **ISO** must, without delay, act or direct others to act to mitigate the magnitude and duration of the instance of exceeding that **interconnection reliability operating limit** within the **interconnection reliability operating limit's** T_v .
- R5** If unanimity cannot be reached between a **reliability coordinator** and the **ISO** on the value for an **interconnection reliability operating limit** or its T_v for a facility (or group of facilities) that is part of an **interconnection** and that both entities are responsible to monitor, the **ISO** must, without delay, use the most conservative of the values (the value with the least impact on reliability) under consideration.

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 may include but is not limited to a list of any **interconnection reliability operating limits** (and each associated T_v) identified in advance, along with one or more dated operating processes, operating procedures, or operating plans that will be used to confirm that the **ISO**

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- has operating processes, operating procedures, or operating plans to address both preventing and mitigating instances of exceeding **interconnection reliability operating limits** in accordance with requirement R1.
- MR2** Evidence may include but is not limited to a list of any **interconnection reliability operating limits** (and each associated T_v) identified in advance, along with one or more dated operating processes, operating procedures or operating plans that will be used to confirm that the **ISO** has operating processes, operating procedures, or operating plans to address both preventing and mitigating instances of exceeding **interconnection reliability operating limits** in accordance with requirement R2.
- MR3** Evidence may include, but is not limited to, operating processes, operating procedures or operating plans from requirement R1, dated operating logs, dated voice recordings, dated transcripts of voice recordings, or other evidence that will be used to confirm that the **ISO** implemented one or more operating processes, operating procedures or operating plans in accordance with requirement R3.
- MR4** Evidence may include, but is not limited to, operating processes, operating procedures, or operating plans from requirement R1, dated operating logs, dated voice recordings, dated transcripts of voice recordings, or other evidence that will be used to confirm that the **ISO** acted or directed others to act in accordance with requirement R4.
- MR5** Evidence may include, but is not limited to dated computer printouts, dated operator logs, dated voice recordings, or other equivalent evidence that will be used in a situation where any **reliability coordinator** and the **ISO** disagree on the value of an **interconnection reliability operating limit** or its T_v , to confirm the **ISO** used the most conservative of the values under consideration, without delay.

Revision History

Effective Date	Description
2015-04-01	Initial release.