

# Alberta Reliability Standard

## Evaluation of Interchange Transactions

### INT-006-AB-4



#### 1. Purpose

The purpose of this **reliability standard** is to ensure that responsible entities conduct a **reliability** assessment of each **arranged interchange** before it is implemented.

#### 2. Applicability

This **reliability standard** applies to:

- (a) the **ISO**.

#### 3. Requirements

**R1** The **ISO** must approve or deny each on-time **arranged interchange** or emergency **arranged interchange** that it receives and must do so prior to the expiration of the time period defined in Appendix 1, column B.

**R1.1** The **ISO** must, when it is either the source **balancing authority** or sink **balancing authority** deny the **arranged interchange** or curtail **confirmed interchange** if it does not expect to be capable of supporting the magnitude of the **interchange**, including ramping, throughout the duration of the **arranged interchange**.

**R1.2** The **ISO** must deny the **arranged interchange** or curtail **confirmed interchange** if the **scheduling path** (proper connectivity of **adjacent balancing authorities**) between it and its **adjacent balancing authorities** is invalid.

**R2** The **ISO** must approve or deny each on-time **arranged interchange** or emergency **arranged interchange** that it receives and must do so prior to the expiration of the time period defined in Appendix 1, column B.

**R2.1** The **ISO** must deny the **arranged interchange** or curtail **confirmed interchange** if the transmission path (proper connectivity of adjacent transmission service providers) between it and its adjacent transmission service providers is invalid.

**R3** The **ISO** must, when it receives a **reliability** adjustment **arranged interchange**, approve or deny it prior to the expiration of the time period defined in Appendix 1, column B.

**R4** The **ISO** must when it is a sink **balancing authority** confirm that none of the following conditions exist prior to transitioning an **arranged interchange** to **confirmed interchange**:

- (a) it is a **reliability** adjustment **arranged interchange**, the time period specified in Appendix 1, column B has elapsed, and the **ISO** or the source **balancing authority** associated with the **arranged interchange** has not communicated its approval of the transition;
- (b) it is not a **reliability** adjustment **arranged interchange**, the time period specified in Appendix 1, column B, has elapsed, and not all **balancing authorities** and transmission service providers associated with the **arranged interchange** have communicated their approval of the transition; or
- (c) it is not a **reliability** adjustment **arranged interchange**, the time period specified in Appendix 1, column B, has elapsed, and any entity associated with the **arranged interchange** has communicated its denial of the transition.

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**R5** For each **arranged interchange** that is transitioned to **confirmed interchange**, the **ISO** must, when it is the sink **balancing authority**, notify the following entities of the on-time **confirmed interchange** such that the notification is delivered in time to be incorporated into scheduling systems prior to ramp start as specified in Appendix 1, column D:

**R5.1** the source **balancing authority**;

**R5.2** each intermediate **balancing authority**;

**R5.3** each **reliability coordinator** associated with each **balancing authority** included in the **arranged interchange**;

**R5.4** each transmission service provider included in the **arranged interchange**; and

**R5.5** each purchasing selling entity included in the **arranged interchange**.

#### 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 either approving or denying **arranged interchange** as required in requirement R1 exists. Evidence may include, but is not limited to, dated and time stamped electronic logs or other equivalent evidence.

**MR2** Evidence of either approving or denying **arranged interchange** as required in requirement R2 exists. Evidence may include, but is not limited to, dated and time stamped electronic logs or other equivalent evidence.

**MR3** Evidence of either approving or denying **reliability** adjustment **arranged interchange** as required in requirement R3 exists. Evidence may include, but is not limited to, dated and time stamped electronic logs, studies or other equivalent evidence.

**MR4** Evidence of confirming none of the conditions exist prior to transitioning an **arranged interchange** to **confirmed interchange** as required in requirement R4 exists. Evidence may include, but is not limited to, an interchange transaction without an implemented e-tag, or other equivalent evidence.

**MR5** Evidence of notifying entities of the on-time **confirmed interchange** as required in requirement R5 exists. Evidence may include, but is not limited to, dated and time stamped electronic logs, voice recordings or other equivalent evidence.

#### 5. Appendices

Appendix 1 – Timing Tables

##### Revision History

Date	Description
xxxx-xx-xx	Initial release.

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#### Appendix 1 – Timing Tables

##### Timing Requirements for WECC

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
If <b>arranged interchange</b> <sup>1</sup> is submitted	Time Classification	Sink BA makes initial distribution of <b>arranged interchange</b> <sup>2</sup>	BA and TSP conduct reliability assessments	Compilation and distribution status <sup>2</sup>	BA prepares <b>confirmed interchange</b> for implementation
>1 hour after the start time	ATF		Entities have up to 2 hours to respond.		N/A
<10 minutes prior to ramp start and ≤1 hour after transaction start time where transaction start time is at the top of the hour	Late		Entities have up to 10 minutes to respond.		≤ 3 minutes after receipt of <b>confirmed interchange</b>
<15 minutes prior to ramp start and ≤1 hour after transaction start time where transaction start time is not at the top of the hour	Late		Entities have up to 10 minutes to respond.		≤ 3 minutes after receipt of <b>confirmed interchange</b>
10 minutes prior to ramp start where transaction start time is at the top of the hour	On-time		≤ 5 minutes from <b>arranged interchange</b> receipt		≥ 3 minutes prior to ramp start
11 minutes prior to ramp start where transaction start time is at the top of the hour	On-time		≤ 6 minutes from <b>arranged interchange</b> receipt		≥ 3 minutes prior to ramp start
12 minutes prior to ramp start where transaction start time is at the top of the hour	On-time		≤ 7 minutes from <b>arranged interchange</b> receipt		≥ 3 minutes prior to ramp start

<sup>1</sup> Time classifications and deadlines apply to both initial **arranged interchange** submittal and any subsequent modifications to the **arranged interchange**.

<sup>2</sup> See NAESB WEQ004. The times are being retained in the NAESB tables but are removed here since they are not being referenced in requirements.

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		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
If <b>arranged interchange</b> <sup>1</sup> is submitted	Time Classification	Sink BA makes initial distribution of <b>arranged interchange</b> <sup>2</sup>	BA and TSP conduct reliability assessments	Compilation and distribution status <sup>2</sup>	BA prepares <b>confirmed interchange</b> for implementation
13 minutes prior to ramp start where transaction start time is at the top of the hour	On-time		≤ 8 minutes from <b>arranged interchange</b> receipt		≥ 3 minutes prior to ramp start
14 minutes prior to ramp start where transaction start time is at the top of the hour	On-time		≤ 9 minutes from <b>arranged interchange</b> receipt		≥ 3 minutes prior to ramp start
< 1 hour and ≥ 15 minutes prior to ramp start	On-time		≤ 10 minutes from <b>arranged interchange</b> receipt		≥ 3 minutes prior to ramp start
≥ 1 hour and < 4 hours prior to ramp start	On-time		< 20 minutes from <b>arranged interchange</b> receipt		≥ 39 minutes prior to ramp start
≥ 4 hours prior to ramp start	On-time		≤ 2 hours from <b>arranged interchange</b> receipt		≥ 1 hour 58 minutes prior to ramp start
Submitted before 10:00 PPT with start time ≥ 00:00 PPT of following day	On-time		By 12:00 PPT of day the <b>arranged interchange</b> was recieved		≥ 1 hour 58 minutes prior to ramp start