

AESO Assessment and Conversion of NERC INT-006-2 to Alberta INT-006-AB-2 Response to Interchange Authority

Section	NERC INT-006-2	Alberta INT-006-AB-2	Reason for Difference¹
Purpose	To ensure that each Arranged Interchange is checked for reliability before it is implemented.	The purpose of this reliability standard is to ensure <u>require</u> that each Arranged Interchange <u>interchange</u> is checked for reliability before it is implemented <u>in an interchange schedule</u> .	Clarification on “implementation”.
Applicability	4.1. Balancing Authority. 4.2. Transmission Service Provider.	4.1. Balancing Authority 4.2. Transmission Service Provider. <u>This reliability standard applies to the ISO.</u>	
Effective Date	August 27, 2008. (U.S.) NERC Board Approved: May 2, 2007	<u>10 calendar days after the date of approval by the Commission.</u> August 27, 2008. (U.S.) NERC Board Approved: May 2, 2007	To identify the effective date in Alberta.
Definitions		Italicized terms used in this reliability standard have the same meanings as set out in the Alberta Reliability Standards Glossary of Terms and Part 1 of the ISO Rules. ²	Added definitions section to the Alberta reliability standard.

¹ The following revisions have been made throughout this proposed reliability standard:

- Identified the responsible entities in Alberta.
- Applied a consistent writing style and added clarity.
- Changed passive terms such as “shall” to “must”.

² Defined terms are not italicized in this document, but will appear in the Alberta Reliability Standards document.

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Requirement	<p>R1. Prior to the expiration of the reliability assessment period defined in the Timing Table, Column B, the Balancing Authority and Transmission Service Provider shall respond to a request from an Interchange Authority to transition an Arranged Interchange to a Confirmed Interchange.</p>	<p>R1. Prior to the expiration of the reliability assessment period defined in the Timing Table, Column B, the Balancing Authority and Transmission Service Provider shall respond to a request from an Interchange Authority to transition an Arranged Interchange to a Confirmed Interchange.</p> <p><u>The ISO must respond to a request from an interchange authority to transition an arranged interchange to a confirmed interchange prior to the expiration of the reliability assessment period identified in the Appendix 1, Column B, of this reliability standard.</u></p>	
Measure		<p><u>MR1. Evidence exists and showconfirms that requests are processed in the timeframe specified in requirement R1.</u></p>	

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Section	NERC INT-006-2	Alberta INT-006-AB-2	Reason for Difference ¹
Requirement	R1.1. Each involved Balancing Authority shall evaluate the Arranged Interchange with respect to:	R1.1. <u>Prior to incorporating the arranged interchange in the interchange schedule, the ISO</u> Each <u>involved Balancing Authority shall must</u> evaluate the <u>A</u> rranged <u>I</u> nterchange with respect to:	<p>Alberta's current practice (as documented in OPP 301 and OPP 302) is to evaluate the e-tags against ATC and ramp capability prior to implementing in schedule.</p> <p>This practice meets the intent for checking for reliability prior to implementing the transactions.</p>
Measure		<u>MR1.1 Sub-requirements R.1.1.1, R1.1.2, and R1.1.3 are all met.</u>	
Requirement	R1.1.1. Energy profile (ability to support the magnitude of the Interchange).	R1.1.1. Energy profile (ability to support the magnitude of the <u>I</u> nterchange).	
Measure		<u>MR1.1.1 Evidence exists and existsconfirms that magnitude checks are evaluated and acceptable.</u>	
Requirement	R1.1.2. Ramp (ability of generation maneuverability to accommodate).	R1.1.2. Ramp (ability of generation maneuverability to accommodate).	

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Measure		<u>MR1.1.2 Evidence exists and confirms that magnitude checks are evaluated and acceptable.</u>	
Requirement	R1.1.3. Scheduling path (proper connectivity of Adjacent Balancing Authorities).	R1.1.3. Scheduling path (proper connectivity of A adjacent B balancing A authorities).	
Measure		<u>MR1.1.3 Evidence exists and confirms that connectivity checks are evaluated and acceptable.</u>	
Requirement	R1.2. Each involved Transmission Service Provider shall confirm that the transmission service arrangements associated with the Arranged Interchange have adjacent Transmission Service Provider connectivity, are valid and prevailing transmission system limits will not be violated.	R1.2. Each involved Transmission Service Provider shall <u>The ISO must</u> confirm that the transmission service arrangements associated with the A arranged I interchange have adjacent T ransmission S ervice P rovider connectivity, are valid and prevailing transmission system limits will not be violated. <u>prior to incorporating the arranged interchange in the interchange schedule.</u>	Clarify the timing as to when the checks are made. The emphasis here is that the Arranged Interchange is checked for reliability before it is implemented in the interchange schedule.

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Measure	M1. The Balancing Authority and Transmission Service Provider shall each provide evidence that it responded, relative to transitioning an Arranged Interchange to a Confirmed Interchange, to each request from an Interchange Authority within the reliability assessment period defined in the Timing Table, Column B.	MR1.2 The Balancing Authority and Transmission Service Provider shall each provide evidence that it responded, relative to transitioning an Arranged Interchange to a Confirmed Interchange, to each request from an Interchange Authority within the reliability assessment period defined in the Timing Table, Column B. Failed or invalid tags are not present included in the interchange schedule.	
Procedures			
Compliance	To view the compliance section D of the NERC reliability standard follow this link: http://www.nerc.com/files/INT-006-2.pdf		There is no compliance section currently proposed in the Alberta Reliability Standards. A compliance program will be developed at a later date for Alberta Reliability Standards that recognizes the compliance monitoring and enforcement structure in Alberta.



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			This approach is deemed consistent with the existing ISO Rules.
Regional Differences	None	None	

Timing Table
Interchange Timeline with Minimum Reliability-Related Response Times



	A	B	C	D	
If Actual Arranged Interchange (RFI) is Submitted	IA Makes Initial Distribution of Arranged Interchange	BA and TSP Conduct Reliability Assessments IA Verifies Reliability Data Complete	IA Compiles and Distributes Status	BA Prepares Confirmed Interchange for Implementation	Minimum Total Reliability Period (Columns A through D)
≤ 1 hour prior to ramp start	≤ 1 minute from RFI submission	≤ 10 minutes from Arranged Interchange receipt from IA for all Interconnections except WECC	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start	<i>15 minutes</i>
< 20 minutes prior to ramp start	≤ 1 minute from RFI submission	≤ 5 minutes from Arranged Interchange receipt from IA for WECC	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start	<i>10 minutes</i>
> 20 minutes to ≤ 1 hour prior to ramp start	≤ 1 minute from RFI submission	≤ 10 minutes from Arranged Interchange receipt from IA for WECC	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start	<i>15 minutes</i>
> 1 hour to < 4 hours prior to ramp start	≤ 1 minute from RFI submission	≤ 20 minutes from Arranged Interchange receipt from IA	≤ 1 minute from receipt of all Reliability Assessments	≥ 39 minutes prior to ramp start	<i>1 hour plus 1 minute</i>
≥ 4 hours prior to ramp start	≤ 1 minute from RFI submission	≤ 2 hours from Arranged Interchange receipt from IA	≤ 1 minute from receipt of all Reliability Assessments	≥ 1 hour 58 minutes prior to ramp start	<i>4 hours</i>



Proposed Terms for the Alberta Reliability Standards Glossary:

arranged interchange means the state where the interchange authority has received the interchange information (initial or revised).

| confirmed interchange means the state where the interchange authority has verified the arranged interchange.

interchange authority means the responsible entity that authorizes implementation of valid and balanced interchange schedules between balancing authority areas and, ensures communication of interchange information for reliability assessment purposes.

| transmission service provider means the entity that administers the transmission tariff and provides transmission service to Transmission Customers under applicable transmission service agreements.

Defined Terms used in this standard currently in ISO Rules Definitions or Alberta Reliability Standards Glossary:

pool participant

ISO

Commission

interchange transaction

e-tag

interchange