

Comparison between NERC BAL-006-1 and Alberta BAL-006-AB-1 Inadvertent interchange

Section	NERC BAL-006-1	Alberta BAL-006-AB-1	Reason for difference
Purpose	This standard defines a process for monitoring Balancing Authorities to ensure that, over the long term, Balancing Authority Areas do not excessively depend on other Balancing Authority Areas in the Interconnection for meeting their demand or Interchange obligations.	The purpose of this <i>reliability standard</i> is to define a process for monitoring the <i>ISO</i> to ensure that, over the long term, the <i>AIES</i> does not excessively depend on other <i>balancing authority areas</i> in the <i>WECC</i> for meeting its demand or <i>interchange</i> obligations.	Minor change to writing style. Identified the responsible entity in Alberta and identified the system in Alberta.
Applicability	4.1. Balancing Authorities.	This <i>reliability standard</i> applies to the entities listed below: <ul style="list-style-type: none"> • <i>ISO</i> 	Identified the responsible entities in Alberta.
Effective Date	May 1, 2006		Document format change - this section is deleted and the effective date will be displayed at the footer and in the Revision History section at the end of the document. Effective date will be identified with filed with the Commission.
Definitions		Italicized terms used in this <i>reliability</i>	Added definitions section to the Alberta reliability

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		<i>standard</i> have the meanings as set out in Part 1 of the <i>ISO Rules</i> .	standard.
Requirements	R1 Each Balancing Authority shall calculate and record hourly Inadvertent Interchange.	R1 The <i>ISO</i> must calculate and record hourly <i>inadvertent interchange</i> .	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”.
	R2 Each Balancing Authority shall include all AC tie lines that connect to its Adjacent Balancing Authority Areas in its Inadvertent Interchange account. The Balancing Authority shall take into account interchange served by jointly owned generators.	R2 The <i>ISO</i> must include all AC <i>tie lines</i> that connect to its <i>adjacent balancing authority areas</i> in its <i>inadvertent interchange</i> account.	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”. No jointly owned generators in Alberta.
	R3 Each Balancing Authority shall ensure all of its Balancing Authority Area interconnection points are equipped with common megawatt-hour meters, with readings provided hourly to the control centers of Adjacent Balancing Authorities.	R3 The <i>ISO</i> must ensure all of the <i>AIES</i> 's interconnection points are equipped with common megawatt-hour meters, with readings provided hourly to the control centers of <i>adjacent balancing authorities</i> .	Identified the responsible entity in Alberta and identified the system in Alberta. Replaced the passive term “shall” with “must”.

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	R4 Adjacent Balancing Authority Areas shall operate to a common Net Interchange Schedule and Actual Net Interchange value and shall record these hourly quantities, with like values but opposite sign. Each Balancing Authority shall compute its Inadvertent Interchange based on the following:	R4 <i>Adjacent balancing authority areas</i> must operate to a common <i>net interchange schedule</i> and <i>actual net interchange</i> value and shall record these hourly quantities, with like values but opposite sign. The ISO must compute its <i>inadvertent interchange</i> based on the following:	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”.
	R4.1. Each Balancing Authority, by the end of the next business day, shall agree with its Adjacent Balancing Authorities to: R4.1.1. The hourly values of Net Interchange Schedule. R4.1.2. The hourly integrated megawatt-hour values of Net Actual Interchange.	R4.1. The ISO must agree with its <i>adjacent balancing authorities</i> to: R4.1.1. The hourly values of <i>net interchange schedule</i> . R4.1.2. The hourly integrated megawatt-hour values of <i>net actual interchange</i> .	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”. Alberta Variance¹: The current business practice in WECC does not facilitate the completion of agreement by the end of next business day.
	R4.2. Each Balancing Authority shall use the agreed-to daily and monthly accounting data to compile its monthly accumulated Inadvertent Interchange for the On-Peak and Off- Peak hours of the month.	R4.2. The ISO must use the agreed-to daily and monthly accounting data to compile its monthly accumulated <i>inadvertent interchange</i> for the <i>on-peak</i> and <i>off-</i>	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”.

¹ Alberta Variance is a change from the US Reliability Standard that the AESO has determined is material.

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		<i>peak</i> hours of the month.	
	R4.3. A Balancing Authority shall make after-the-fact corrections to the agreed-to daily and monthly accounting data only as needed to reflect actual operating conditions (e.g. a meter being used for control was sending bad data). Changes or corrections based on non-reliability considerations shall not be reflected in the Balancing Authority's Inadvertent Interchange. After-the-fact corrections to scheduled or actual values will not be accepted without agreement of the Adjacent Balancing Authority(ies).	R4.3. The <i>ISO</i> must make after-the-fact corrections to the agreed-to daily and monthly accounting data only as needed to reflect actual operating conditions (e.g. a meter being used for control was sending bad data). Changes or corrections based on non-reliability considerations must not be reflected in the <i>AIES's inadvertent interchange</i> . After-the-fact corrections to scheduled or actual values will not be accepted without agreement of the <i>adjacent balancing authority(ies)</i> .	Identified the responsible entity in Alberta and identified the system in Alberta. Replaced the passive term "shall" with "must".

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	<p>R5 Adjacent Balancing Authorities that cannot mutually agree upon their respective Net Actual Interchange or Net Scheduled Interchange quantities by the 15th calendar day of the following month shall, for the purposes of dispute resolution, submit a report to their respective Regional Reliability Organization Survey Contact. The report shall describe the nature and the cause of the dispute as well as a process for correcting the discrepancy.</p>	<p>R5 <i>Adjacent balancing authorities</i> that cannot mutually agree upon their respective <i>net actual interchange</i> or <i>net scheduled interchange</i> quantities by the 15th calendar day of the following month must, for the purposes of dispute resolution, submit a report to their respective WECC Survey Contact. The report must describe the nature and the cause of the dispute as well as a process for correcting the discrepancy.</p>	<p>Identified the applicable entity in Alberta and the regional entity for Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p> <p>Replaced RRO with WECC.</p>
Measures		<p>The following <i>measures</i> correspond to the requirements identified in Section 4 of this <i>reliability standard</i>. For example, MR1 is the measure for R1.</p> <p>M1 <i>Inadvertent interchange</i> records are complete and accurate.</p> <p>M2 Records include the applicable AC <i>tie lines</i>.</p> <p>M3 Documents, such as metering records or schematics identifying meters in place at these points, exist or are provided.</p> <p>M4 <i>Net interchange schedule</i> exists, is</p>	Added measures.

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		<p>complete for all hours and for applicable AC ties, and agree with adjacent area values.</p> <p>M4.1.1 Evidence indicating agreement exists for all hourly values of the <i>net interchange schedule</i>.</p> <p>M4.1.2 Evidence indicating that agreement exists for all hourly integrated megawatt-hour values of <i>net actual interchange</i>.</p> <p>M4.2 Evidence indicating that accounting data agrees with data from <i>net interchange schedules</i> as well as <i>net actual interchanges</i>.</p> <p>M5 Documents of disputes follow the specified process and timing.</p>	
Compliance	<p>Compliance 1. Compliance Monitoring Process 1.1. Each Balancing Authority shall submit a monthly summary of Inadvertent Interchange. These summaries shall not include any after-the-fact changes that were not agreed to</p>		<p>There is no compliance section currently proposed in the Alberta Reliability Standards.</p> <p>A compliance program will be developed at a later date for Alberta Reliability</p>

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	<p>by the Source Balancing Authority, Sink Balancing Authority and all Intermediate Balancing Authority(ies).</p> <p>1.2. Inadvertent Interchange summaries shall include at least the previous accumulation, net accumulation for the month, and final net accumulation, for both the On-Peak and Off-Peak periods.</p> <p>1.3. Each Balancing Authority shall submit its monthly summary report to its Regional Reliability Organization Survey Contact by the 15th calendar day of the following month.</p> <p>1.4. Each Balancing Authority shall perform an Area Interchange Error (AIE) Survey as requested by the NERC Operating Committee to determine the Balancing Authority's Interchange error(s) due to equipment failures or improper scheduling operations, or improper AGC performance.</p> <p>1.5. Each Regional Reliability Organization shall prepare a monthly Inadvertent Interchange summary to monitor the Balancing Authorities' monthly Inadvertent Interchange and all-time accumulated Inadvertent Interchange. Each Regional</p>		<p>Standards that recognizes the compliance monitoring and enforcement structure in Alberta.</p> <p>This approach is deemed consistent with the existing ISO Rules</p>

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	<p>Reliability Organization shall submit a monthly accounting to NERC by the 22nd day following the end of the month being summarized.</p> <p>2. Levels of Non Compliance A Balancing Authority that neither submits a report to the Regional Reliability Organization Survey Contact, nor supplies a reason for not submitting the required data, by the 20th calendar day of the following month shall be considered non-compliant.</p>		
Regional Differences	<p>MISO RTO Inadvertent Interchange Accounting Waiver approved by the Operating Committee on March 25, 2004. This regional difference will be extended to include SPP effective May 1, 2006.</p>		Not applicable in Alberta.