

**ARC TWG and TPWG Assessment and Conversion of NERC FAC-002-0 to Alberta FAC-002-AB-0 Coordination of Plans for New Facilities**

Section	NERC FAC-002-0	Alberta FAC-002-AB-0	Reason for Difference <sup>1</sup>
<b>Purpose</b>	To avoid adverse impacts on reliability, Generator Owners and Transmission Owners and electricity end-users must meet facility connection and performance requirements.	<p><u>The purpose of this reliability standard is to demonstrate that proper evaluation of potential reliability impacts of new transmission facilities to be connected to the AIES has occurred.</u></p> <p><del>To avoid adverse impacts on reliability, Generator Owners and Transmission Owners and electricity end-users must meet facility connection and performance requirements.</del></p>	Align the purpose with the contents of the reliability standard.
<b>Applicability</b>	4.1. Generator Owner 4.2. Transmission Owner 4.3. Distribution Provider 4.4. Load-Serving Entity 4.5. Transmission Planner 4.6. Planning Authority	<p><u>This reliability standard applies to the ISO.</u></p> <p><del>4.1. Generator Owner</del>  <del>4.2. Transmission Owner</del>  <del>4.3. Distribution Provider</del>  <del>4.4. Load-Serving Entity</del>  <del>4.5. Transmission Planner</del>  <del>4.6. Planning Authority</del></p>	
<b>Effective Date</b>	April 1, 2005	<u>180 calendar days after the date of approval by the Commission.</u>	Identified when this standard becomes effective in Alberta.

<sup>1</sup> 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”.

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<b>Definitions</b>		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. <sup>2</sup>	Added definitions section to the Alberta reliability standard.
<b>Requirement</b>	<p>R1. The Generator Owner, Transmission Owner, Distribution Provider, and Load-Serving Entity seeking to integrate generation facilities, transmission facilities, and electricity end-user facilities shall each coordinate and cooperate on its assessments with its Transmission Planner and Planning Authority. The assessment shall include:</p> <p>R1.1. Evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems.</p> <p>R1.2. Ensurance of compliance with NERC Reliability Standards and applicable Regional, subregional, Power Pool, and individual system planning criteria and facility connection requirements.</p>	<p><del>R1. The Generator Owner, Transmission Owner, Distribution Provider, and Load-Serving Entity seeking to integrate generation facilities, transmission facilities, and electricity end-user facilities shall each coordinate and cooperate on its assessments with its Transmission Planner and Planning Authority. The assessment shall include:</del></p> <p><del>R1.1. Evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems.</del></p> <p><del>R1.2. Ensurance of compliance with NERC Reliability Standards and applicable Regional, subregional, Power Pool, and individual system planning criteria and facility connection requirements.</del></p>	<p><b>Alberta Variance<sup>3</sup>:</b> All requirements in NERC requirement R1, that includes responsibilities for performing an assessment of the reliability impacts of new facilities on the interconnected transmission systems, have been omitted from the Alberta reliability standards as they are addressed in Provincial legislation, i.e. the EUA and the Transmission Regulation.</p> <p>NERC R1 – GFOs, TFOs and WOs are obligated to coordinate and cooperate with the ISO in accordance with the Electric Utilities Act and the Transmission Regulation.</p> <p>NERC R1.1 – Per the EUA section 17(h) the ISO is accountable for</p>

<sup>2</sup> Defined terms are not italicized in this document, but will appear in the Alberta reliability standards document when it is developed.

<sup>3</sup> An Alberta variance is a change from the US Reliability Standard that the AESO has determined is material.

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	<p>R1.3. Evidence that the parties involved in the assessment have coordinated and cooperated on the assessment of the reliability impacts of new facilities on the interconnected transmission systems. While these studies may be performed independently, the results shall be jointly evaluated and coordinated by the entities involved.</p> <p>R1.4. Evidence that the assessment included steady-state, short-circuit, and dynamics studies as necessary to evaluate system performance in accordance with Reliability Standard TPL-001-0.</p> <p>R1.5. Documentation that the assessment included study assumptions, system performance, alternatives considered, and jointly coordinated recommendations.</p>	<p><del>R1.3. Evidence that the parties involved in the assessment have coordinated and cooperated on the assessment of the reliability impacts of new facilities on the interconnected transmission systems. While these studies may be performed independently, the results shall be jointly evaluated and coordinated by the entities involved.</del></p> <p><del>R1.4. Evidence that the assessment included steady-state, short-circuit, and dynamics studies as necessary to evaluate system performance in accordance with Reliability Standard TPL-001-0.</del></p> <p><del>R1.5. Documentation that the assessment included study assumptions, system performance, alternatives considered, and jointly coordinated recommendations.</del></p>	<p>system reliability.</p> <p>NERC R1.2 Per the AESO's development and the AUC's acceptance of the Alberta reliability standards the AESO is obligated to adhere to these standards.</p> <p>NERC R1.3 has been removed as only the AESO has this accountability within Alberta and coordination is inherent in preparing a Needs Document.</p> <p>NERC R1.4 – Per the AESO's review and submittal of Alberta Reliability Standard TPL-001-AB-0 and the AUC's approval the AESO will be obligated to meet this standard.</p> <p>NERC 1.5 – Per the Transmission Regulation section 11 all of these items are covered.</p>

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<b>Measure</b>	M1. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load- Serving Entity, and Distribution Provider's documentation of its assessment of the reliability impacts of new facilities shall address all items in Reliability Standard FAC-002-0_R1.	<del>M1. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load- Serving Entity, and Distribution Provider's documentation of its assessment of the reliability impacts of new facilities shall address all items in Reliability Standard FAC-002-0_R1.</del>	No Measure Required.
<b>Requirement</b>	R2. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load- Serving Entity, and Distribution Provider shall each retain its documentation (of its evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems) for three years and shall provide the documentation to the Regional Reliability Organization(s) and NERC on request (within 30 calendar days).	<del>R12. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load- Serving Entity, and Distribution Provider shall</del> <u>ISO must each</u> retain <del>its the</del> <u>documentation</u> (of its evaluation of <del>the the</del> <u>potential</u> reliability impact of the new <u>transmission</u> facilities and their connections on the AIES for three years <u>after energization</u> .  <u>R2. The ISO, and must shall</u> provide the documentation <u>referred to in s.requirement R:1</u> to the <u>Regional Reliability</u>	<b>Alberta Variance<sup>4</sup>:</b> The requirement to provide documentation, of the ISO's evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems, to NERC was omitted from the Alberta reliability standard as the ISO only provides this documentation to the WECC.

<sup>4</sup> An Alberta variance is a change from the US Reliability Standard that the AESO has determined is material.



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		<p>Organization(s) <del>WECC</del> within 30 calendar days <del>and NERC of its</del> request, <u>provided such request is made with the three year period referred to in requirement R1.</u> <del>(.)</del>.</p>	

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<b>Measure</b>	M2. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load-Serving Entity, and Distribution Provider shall each have evidence of its assessment of the reliability impacts of new facilities and their connections on the interconnected transmission systems is retained and provided to other entities in accordance with Reliability Standard FAC-002-0_R2.	<p><del>M2. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load-Serving Entity, and Distribution Provider shall each have evidence of its assessment of the reliability impacts of new facilities and their connections on the interconnected transmission systems is retained and provided to other entities in accordance with Reliability Standard FAC-002-0_R2.</del></p> <p><u>M1. Documentation exists for the past three years and is made available when requested per R1.</u></p> <p><u>M2. Confirmation exists that documentation was received if requested for documentation was made.</u></p>	Develop measures specific to the requirement.
<b>Procedures</b>			
<b>Compliance</b>	To view the compliance section D of the NERC reliability standard follow this link: <a href="http://www.nerc.com/files/FAC-002-0.pdf">http://www.nerc.com/files/FAC-002-0.pdf</a>		There is no compliance section currently proposed in the Alberta Reliability Standards.

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			<p>A compliance program will be developed at a later date for Alberta Reliability Standards that recognizes the compliance monitoring and enforcement structure in Alberta.</p> <p>This approach is deemed consistent with the existing ISO Rules.</p>
<b>Regional Differences</b>	None identified.		Not applicable in Alberta

**Proposed Terms for the Alberta Reliability Standards Glossary**

None

**Existing Defined Terms Used in this Standard:**

(As included in the ISO Rules Definitions or Alberta Reliability Standards Glossary)

- reliability standard
- ISO
- day
- Commission
- Western Electricity Coordinating Council (WECC)
- energization