

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
Purpose	To avoid adverse impacts on reliability, Generator Owners and Transmission Owners and electricity end-users must meet facility connection and performance requirements.	The purpose of this reliability standard is to demonstrate that proper evaluation of reliability impacts of new facilities to be connected to the AIES has occurred.	
Applicability	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	4.1. ISO	Identified the responsible entities in Alberta.
Effective Date	April 1, 2005	180 calendar days after approval by the Commission.	Identified when this standard becomes effective 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. ¹	Added definitions section to the Alberta reliability standard.
Requirement	R1. The Generator Owner, Transmission Owner, Distribution Provider, and Load-Serving Entity seeking to integrate generation facilities, transmission facilities, and electricity		Alberta Variance²: All requirements in NERC requirement R1, that includes responsibilities for performing an assessment of the reliability

Deleted: To avoid adverse impacts on reliability, Generator Owners and Transmission Owners and electricity end-users must meet facility connection and performance requirements.

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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: ¶
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R1.1. Evaluation of the reliability impact of the new facilities and their connections on the ¶ interconnected transmission systems. ¶
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R1.2. Ensurance of compliance with NERC Reliability Standards and applicable Regional, subregional, Power Pool, and individual system planning criteria and facility connection requirements. ¶
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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. ¶
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R1.4. Evidence that the assessment included steady-state, short-cir [1]

¹ Defined terms are not italicized in this document, but will appear in the Alberta reliability standards document when it is developed.

² An Alberta variance is a change from the US Reliability Standard that the AESO has determined is material.

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	<p>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>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</p>		<p>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 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</p>

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	<p>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>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>
Measure	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.		No Measure Required.
Requirement	R2. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load- Serving Entity, and Distribution	R1. The ISO must retain its documentation of its evaluation of the reliability impact of the new facilities and their connections on the	Identified the responsible entities in Alberta.

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	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).	AIES for three years <u>after energization</u> , and <u>must</u> provide the documentation to the <u>WECC</u> , within 30 calendar days <u>of its request</u> .	Replaced the passive term “shall” with “must”. Alberta Variance ³ : 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.
Measure	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.	<u>M1. Documentation exists for the past three years and is made available when requested per R1. Confirmation exists that documentation was received if requested.</u>	Develop measures specific to the requirement.
Procedures			
Compliance			There is no compliance section currently proposed in the Alberta

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			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. This approach is deemed consistent with the existing ISO Rules.
Regional Differences			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



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:

R1.1. Evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems.

R1.2. Ensurance of compliance with NERC Reliability Standards and applicable Regional, subregional, Power Pool, and individual system planning criteria and facility connection requirements.

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.

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.

R1.5. Documentation that the assessment included study assumptions, system performance, alternatives considered, and jointly coordinated recommendations.