

**Table of Alberta Variances and Amendments for Clarification**

NERC EOP-005-2	Alberta EOP-005-AB-2	Variance Description
Applicability	Applicability	<b>Amendment for Clarification:</b> Revised the applicability to align with the Alberta functional entity types and to apply this reliability standard to specified entities.
R1.1	R1.1	<b>Alberta Variance:</b> Deleted “high level” strategy and replaced it with “the ISO’s restoration plan” as the AESO’s restoration plan provides the strategy for the restoration of the Alberta interconnected electric system.
R1.2	R1.2	<b>Alberta Variance:</b> This requirement is not applicable as there are no nuclear power plants in Alberta.
R1.3	R1.3	<b>Amendment for Clarification:</b> Re-worded to include reference to both the procedures for restoring connections with other operators of transmission facilities and interconnections with adjacent interconnected transmission operators to clarify that restoring connections with entities both inside and outside of Alberta is required.
R1.4	R1.4	<b>Amendment for Clarification:</b> Re-worded to clarify that the operator of a transmission facility only needs to identify the blackstart resources that are connected to its facilities in its restoration plan.
R1.5	R1.5	<b>Amendment for Clarification:</b> Re-worded to add reference to the “ISO’s restoration plan” because the cranking paths in the operator of a transmission facility’s restoration plan need to align with the cranking paths in the AESO’s restoration plan.
R1.9	R1.9	<b>Alberta Variance:</b> Added “accepting authority from” the AESO for completeness, as certain operating authority would have to be transferred from the AESO to the operator of a transmission facility before it could be transferred back.
R2	R2	<b>Amendment for Clarification:</b> Added an obligation on the AESO to provide entities identified in the AESO’s restoration plan with a description of any changes to their roles and specific tasks prior to the effective date of the plan.
R3 and R3.1 (Retirement of R3.1 approved by FERC effective January 21, 2014)	R3	<b>Alberta Variance:</b> In Alberta, the operator of a transmission facility is required to review and align its restoration plan with each updated version of the AESO’s restoration plan. The AESO prepares the overall provincial restoration plan, and the restoration plans of the operators of transmission facilities are required to align with this plan.
	R3.1	Requirement R3.1 has been added to clarify the process whereby the AESO disapproves a restoration plan and provides reasons in

		accordance with EOP-006 R5.1
R4 and R4.1	R4	<b>Amendment for Clarification:</b> Requirement R4(b) has been added to distinguish between submittal requirements of revised restoration plans for planned and unplanned permanent bulk electric system modifications. Included the requirements of NERC R4.1 within R4 for clarity and simplicity.
	R4.1	<b>Amendment for Clarification:</b> Requirement R4.1 has been added to clarify the process whereby the AESO disapproves a restoration plan and provides reasons in accordance with EOP-006 R5.1.
R5	R5	<b>Amendment for Clarification:</b> Removed the requirement for the operator of a transmission facility to have a copy of its current AESO approved restoration plan within its primary and backup control rooms “prior to its implementation date” because this would require that two plans to be in the control room, which is redundant. The intent of the requirement is to require a copy of the operator’s current AESO approved restoration plan to be in the control room.  Added “for the purpose of” and removed “all” to clarify that ensuring availability to operating personnel is the purpose of the requirement but not part of the requirement.
	R5.1	<b>Alberta Variance:</b> Requirement R5.1 added to ensure that each operator of an electric distribution system that is identified in the current AESO approved restoration plan of the operator of a transmission facility is made aware that EOP-005 applies to that operator of an electric distribution system. See also Applicability subsection (d) and requirement R11.
R6	R6	<b>Amendment for Clarification:</b> In accordance with requirement R3, the operator of a transmission facility is required to update its restoration plan to align with the AESO’s plan. Therefore, requirement R6 has been modified to apply to the AESO in Alberta.
R7	R7	<b>Amended NERC:</b> Added reference to requirement R1.1 for clarity.
R8	R8	<b>Amendment for Clarification:</b> Applied this requirement to the affected operator of a transmission facility to be consistent with requirement R7. Added (a) and (b) to clarify that resynchronization with entities both inside and outside of Alberta is required.  <b>Alberta Variance:</b> Modified requirement R8 to require that authorization be received from the AESO before resynchronizing and that procedures for resynchronizing set out in the AESO’s restoration plan be followed, as both are required to safely and reliably connect two asynchronous systems together.  <b>Amendment for Clarification:</b> Added the word “prior” to clarify that the AESO’s authorization must be received prior to resynchronizing.

R9	R9	<b>Amendment for Clarification:</b> In accordance with requirement R3, the operator of a transmission facility is required to update its restoration plan in order to align with the AESO's plan. Therefore, requirement R9 has been modified to apply to the AESO in Alberta.
R9.2.1	R9.2(a)(i) and (ii)	<b>Alberta Variance:</b> Replaced "bulk electric system" with "interconnected electric system" as the required tests must be done without support from or connection to any facilities that are part of the "interconnected electric system", including facilities that are not part of the "bulk electric system".
R9.2	R9.2	<b>Amendment for Clarification:</b> The following statement in NERC requirement R9.2 "such as verifying that the breaker close coil relay can be energized with the voltage and frequency monitor controls disconnected from the synchronizing circuits" has been removed because the AESO's practice is to conduct a test to demonstrate that the blackstart resource can energize a bus.
R10	R10	<p><b>Amendment for Clarification:</b> Removed "to assure the proper execution of its restoration plan" as it is superfluous and not measurable.</p> <p><b>Amendment for Clarification:</b> Added "as included in its restoration plan" in subsection (c) for clarification.</p>