



**Comparison between NERC MOD-016-1.1 and Alberta MOD-016-AB-1.1  
Documentation of Data Reporting Requirements for Actual and Forecast Demands, and Net Energy for Load**

Section	NERC MOD-016-1.1	Alberta MOD-016-AB-1.1	Reason for Difference <sup>1</sup>
<b>Purpose</b>	Ensure that accurate, actual Demand data is available to support assessments and validation of past events and databases. Forecast Demand data is needed to perform future system assessments to identify the need for system reinforcements for continued reliability. In addition, to assist in proper real-time operating, Load information related to controllable Demand-Side Management (DSM) programs is needed.	<u>The purpose of this reliability standard is to ensure the availability of documentation of data reporting requirements for actual and forecast demands and net energy for load data reporting of that accurate, actual demand data is available to support assessments and validation of past events and databases, and forecast demand data is needed is needed available to allow performs support future future system assessments required to identify the need for need for system reinforcements needs for continued reliability. In addition, to assist in proper real-time operating, Load information related to controllable Demand-Side Management (DSM) programs is needed.</u>	Alberta does not currently have demand system management program. Writing style changes.
<b>Applicability</b>	<b>4.1.</b> Planning Authority. <b>4.2.</b> Regional Reliability Organization.	<u>This reliability standard applies to:</u> • <b>4.1.</b> Planning Authority. <b>ISO 4.2.</b> Regional Reliability Organization.	To identify the responsible entity in Alberta.
<b>Effective</b>	May 13, 2009	<u>Six months after BOT approval. Ten</u>	To identify the effective date

<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.”
- Developed measures specific to the requirements

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Date		<u>calendar days after the date of approval by the Commission.</u>	in Alberta.
Definitions		<u>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 rRules<sup>2</sup>.</u>	
Requirement	<b>R1.</b> The Planning Authority and Regional Reliability Organization shall have documentation identifying the scope and details of the actual and forecast (a) Demand data, (b) Net Energy for Load data, and (c) controllable DSM data to be reported for system modeling and reliability analyses.	<del><b>R1.</b> The Planning Authority and Regional Reliability Organization</del> <u>ISO shall must</u> have documentation identifying the scope and details of the actual and forecast (a) <u>demand data, and (b) net energy for load data, and (c)</u> <del>controllable DSM data</del> to be reported for system modeling and reliability analyses.	Alberta does not currently have demand system management program.
Measure		<u><b>MR1</b> Written document(s) exist and include contents as specified in requirement R1.</u>	
Requirement	<b>R1.1.</b> The aggregated and dispersed data submittal requirements shall ensure that consistent data is supplied for Reliability Standards TPL-005, TPL-006, MOD-010, MOD-011, MOD-012, MOD-013, MOD-014, MOD-015, MOD-016, MOD-017, MOD-018, MOD-019, MOD-020, and MOD-021. The data submittal requirements shall stipulate that each Load-Serving Entity count its customer Demand once	<b>R1.1</b> The aggregated and dispersed data submittal requirements must ensure that consistent data is supplied for <del>r</del> Reliability <del>S</del> standards TPL-005- <u>AB</u> , TPL-006- <u>AB</u> , MOD-010- <u>AB</u> , MOD-011- <u>AB</u> , MOD-012- <u>AB</u> , MOD-013- <u>AB</u> , MOD-014- <u>AB</u> , MOD-015- <u>AB</u> , MOD-016- <u>AB</u> , MOD-017- <u>AB</u> , MOD-018- <u>AB</u> , MOD-019- <u>AB</u> , MOD-	

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

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	and only once, on an aggregated and dispersed basis, in developing its actual and forecast customer Demand values.	<del>020-AB, and MOD-021-AB.</del> The data submittal requirements <u>shall must</u> stipulate that each <del>load-Serving-Entity</del> count its <del>customer</del> <u>customer's demand is counted</u> once and only once, on an aggregated and dispersed basis, in developing its actual and forecast customer demand values.	
<b>Measure</b>	<b>M1.</b> The Planning Authority and Regional Reliability Organization's documentation for actual and forecast customer data shall contain all items identified in R1.	<del><b>MR1.</b> Document exists to show that requirement was met.</del> The Planning Authority and Regional Reliability Organization's documentation for actual and forecast customer data shall contain all items identified in R1. <b>MR1.1</b> Written documentation exists and includes content as specified in requirement R1.1.	Developed measure specific to the requirement.
<b>Requirement</b>	<b>R2.</b> The Regional Reliability Organization shall distribute its documentation required in Requirement 1 and any changes to that documentation, to all Planning Authorities that work within its Region.	<del><b>R2.</b> The Regional Reliability Organization shall distribute its documentation required in Requirement 1 and any changes to that documentation, to all Planning Authorities that work within its Region.</del>	Responsible entity is the WECC. No entity in Alberta is responsible for implementing this requirement.
<b>Measure</b>			
<b>Requirement</b>	<b>R2.1.</b> The Regional Reliability Organization shall make this distribution within 30 calendar days of approval.	<del><b>R2.1.</b> The Regional Reliability Organization shall make this distribution within 30 calendar days of approval.</del>	Responsible entity is the WECC. No entity in Alberta is responsible for implementing this requirement.

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Measure	<b>M2.</b> The Regional Reliability Organization shall have evidence it provided <del>its</del> <u>it's</u> actual and forecast customer data reporting requirements as required in Requirement 2.	<b>M2.</b> The Regional Reliability Organization shall have evidence it provided its actual and forecast customer data reporting requirements as required in Requirement 2.	
Requirement	<b>R3.</b> The Planning Authority shall distribute its documentation required in R1 for reporting customer data and any changes to that documentation, to its Transmission Planners and Load-Serving Entities that work within its Planning Authority Area.	<b>R2</b> The Planning Authority shall <u>ISO must distribute</u> <del>publish and distribute</del> its documentation required in <u>requirement</u> R1 for reporting customer data and any changes to that documentation, <del>to its</del> <u>Transmission Planners and Load-Serving Entities that work</u> <del>the meter data managers</del> <u>MDMs, load settlement agents</u> <del>LSAs, WOs</del> <u>wire owners and transmission connected end-use customers</u> <del>, as applicable, in Alberta.</del>	To identify the responsible entity in Alberta for the distribution of the documentation, and the entities who receive the documentation in Alberta.
Measure		<b>MR2</b> Evidence exists and shows that <u>documents were published and distributed</u> <del>distributed to applicable parties</del> as specified in requirement R2.	
Requirement	<b>R3.1.</b> The Planning Authority shall make this distribution within 30 calendar days of approval.	<b>R2.1</b> The Planning Authority <u>ISO shall</u> <del>must</del> make this <u>publication and distribution</u> within 30 calendar days of <u>approval</u> <del>a revision being approved by the ISO</del> <u>posted on the ISO website.</u>	To identify the responsible entity in Alberta.  Clarify the period when a notice or distribution of the revised requirements must be provided.

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<b>Measure</b>	<b>M3.</b> The Planning Authority shall have evidence it provided its actual and forecast customer data and reporting requirements as required in Requirement 3.	<del><b>MR2.1</b> Evidence of transmittal of the documentation, such as emails, exists. The Planning Authority shall have evidence it provided its actual and forecast customer data and reporting requirements as required in Requirement 3. Confirmation exists and shows that documents distributed within the timelines as specified in requirement R2.1.</del>	Developed measure specific to the requirement.
<b>Procedures</b>		<u>None identified.</u>	
<b>Compliance</b>	To view the compliance section D of the NERC reliability standard follow this link: <a href="http://www.nerc.com/files/MOD-016-1_1.pdf">http://www.nerc.com/files/MOD-016-1_1.pdf</a>		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.  This approach is deemed consistent with the existing ISO Rules.
<b>Regional</b>	None identified.	None identified.	Not applicable in Alberta



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<b>Differences</b>			



## **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)

- Commission
- days
- demand<sup>♦</sup>
- ISO
- load
- load settlement agent (LSA)
- meter data manager (MDM)
- MW
- net energy for load
- reliability
- reliability standard
- system
- transmission connected end-use customer<sup>♦</sup>
- wire owner (WO)

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<sup>♦</sup> Term appears in the Alberta Reliability Standards Glossary of Terms – July 2009 rules cycle