

## Comments/Questions

For comments or questions about the reliability standards or

To submit comments on NERC or WECC reliability standards for AESO consideration contact:

### Mark Thompson

External Reliability Standards Coordinator

T: 403-539-2625

E: [mark.thompson@aeso.ca](mailto:mark.thompson@aeso.ca)

## Related Links

- [NERC Standards Development](#)
- [WECC Standards Development](#)
- [AESO Reliability Standards Monthly Reports](#)
- [AESO Reliability Committee](#)
- [Alberta Reliability Standards](#)

Comments/Questions

## In This Issue

The Reliability Standards Monthly Report provides an overview of the AESO's activities related to NERC and WECC standards, business practices and criterion that are posted for review, comment or balloting.

The AESO consults with internal subject matter experts, members of the [AESO Reliability Committee \(ARC\)](#) working groups and the Standards Review Committee (SRC) of the ISO/RTO Council (IRC) when responding to NERC and WECC on the standards.

The report also includes a summary of ARC and its work group activities associated with reliability standards.

## NERC Standards

Standard	Name/Description	Status	Due Date
<a href="#">TPL-002-0a</a>	System Performance Following Loss of a Single Bulk Electric System Element	Recirculation Ballot Period Ended	2009-08-06
<a href="#">PRC-005-1</a>	Transmission and Generation Protection System Maintenance and Testing	Recirculation Ballot Period Ended	2009-08-06
<a href="#">COM-001-2,</a> <a href="#">COM-002-3,</a> <a href="#">IRO-001-2,</a> <a href="#">IRO-014-2</a>	Reliability Coordination	Comment Period Ended	2009-08-09
<a href="#">PRC-004-1</a> <a href="#">PRC-005-1</a>	Analysis & Mitigation of Transmission/Generation Protection System Misoperations; Transmission & Generation Protection System Maintenance & Testing	Ballot Period Ended	2009-08-10
<a href="#">IRO-006-5,</a> <a href="#">IRO-006-EAST-1</a>	Transmission Loading Relief	Comment Period Ended	2009-08-13
<a href="#">CIP-001-1</a>	Sabotage Reporting	Ballot Period Ended	2009-08-17
<a href="#">EOP VSLs</a>	Violation Severity Limits for 8 EOP Standards	Recirculation Ballot Period Ended	2009-08-27

For comments or questions about the reliability standards

or

To submit comments on NERC or WECC reliability standards for AESO consideration contact:

**Mark Thompson**

External Reliability Standards Coordinator

T: 403-539-2625

E: [mark.thompson@aeso.ca](mailto:mark.thompson@aeso.ca)

## NERC Standards

Standard	Name/Description	Status	Due Date
<a href="#">VSLs for Multiple Standards</a>	Violation Severity Levels	Recirculation Ballot Period Ended	2009-08-27
<a href="#">CIP Standards</a>	Nuclear Facilities Implementation Plan	Ballot Period Ended	2009-08-28
<a href="#">EOP-002-2</a>	Capacity and Energy Emergencies	Recirculation Ballot Period Ended	2009-08-31
<a href="#">CIP-005-1</a>	Cyber Security – Electronic Security Perimeters	Ballot Period	2009-09-08
<a href="#">CIP-006-1</a>	Cyber Security – Physical Security	Ballot Period	2009-09-08
<a href="#">PRC-005-2</a>	Protection System Maintenance and Testing	Comment Period	2009-09-08
<a href="#">CIP-007-1</a>	Systems Security Management	Pre-Ballot Review	2009-09-09
<a href="#">FAC-008-2</a>	Facility Ratings Methodology	Comment Period Ended	2009-09-09
<a href="#">EOP-008-1</a>	Backup Facilities	Pre-Ballot Review	2009-09-16
<a href="#">VAR-001-1a</a> <a href="#">VAR-002-1</a>	Voltage and Reactive Control & Generator Operation for Maintaining Network Voltage Schedules	Comment Period	2009-09-16
<a href="#">TOP-001 to 003</a>	Real-Time Operations	Comment Period	2009-09-24



# AESO Reliability Standards Monthly Report

August 2009

For comments or questions about the reliability standards

or

To submit comments on NERC or WECC reliability standards for AESO consideration contact:

**Mark Thompson**

External Reliability Standards Coordinator

T: 403-539-2625

E: [mark.thompson@aeso.ca](mailto:mark.thompson@aeso.ca)

## WECC Standards and Related Postings

Standard	Name/Description	Status	Due Date
<a href="#">WECC-0055</a> <a href="#">Regional</a> <a href="#">Criterion</a>	Remedial Action Scheme	Comment Period	2009-09-02
<a href="#">WECC-0059</a> <a href="#">Regional</a> <a href="#">Criterion</a>	Relay Misoperation Procedure	Comment Period	2009-09-02
<a href="#">WECC-0064</a> <a href="#">Regional</a> <a href="#">Criterion</a>	Western Interchange Tool Check-out Confirmation	Comment Period	2009-09-02
<a href="#">WECC-0065</a> <a href="#">Regional</a> <a href="#">Criterion</a>	Underfrequency Load Shedding	Comment Period	2009-09-02
<a href="#">WECC-0066</a> <a href="#">Regional</a> <a href="#">Criterion</a>	Digital Circuits Synchronization	Comment Period	2009-09-02
<a href="#">WECC-0067</a> <a href="#">Regional</a> <a href="#">Standard</a>	Subsynchronous Resonance Assessment	Comment Period	2009-09-09

Comments/Questions

For comments or questions about the reliability standards or

To submit comments on NERC or WECC reliability standards for AESO consideration contact:

**Mark Thompson**

External Reliability Standards Coordinator

T: 403-539-2625

E: [mark.thompson@aeso.ca](mailto:mark.thompson@aeso.ca)

## Alberta Reliability Standards

Standard	Name/Description	Status	Due Date
EOP-002-AB-2	Capacity and Energy Emergencies	Submitted to AUC	2009-08-17
EOP-006-1 N/A	Reliability Coordination - System Restoration	Submitted to AUC	2009-08-24
EOP-007-0 N/A	Establish, Maintain, and Document a Regional Black Start Capability Plan	Submitted to AUC	2009-08-24
FAC-001-AB-0	Facility Connection Requirements	Submitted to AUC	2009-08-24
FAC-002-AB-0	Coordination of Plans For New Generation, Transmission, and End-User	Submitted to AUC	2009-08-17
FAC-501-WECC-AB-1	Transmission Maintenance (former PRC std)	Submitted to AUC	2009-08-10
INT-001-AB-3	Interchange Information	Submitted to AUC	2009-08-17
INT-004—2 N/A	Dynamic Interchange Transaction Modifications	Submitted to AUC	2009-08-24
INT-005-AB-3	Interchange Authority Distributes Arranged Interchange	Submitted to AUC	2009-08-24
INT-006-AB-2	Response to Interchange Authority	Submitted to AUC	2009-08-17
INT-007-AB-1	Interchange Confirmation	Submitted to AUC	2009-08-24

N/A means Not Applicable in Alberta

For comments or questions about the reliability standards or

To submit comments on NERC or WECC reliability standards for AESO consideration contact:

**Mark Thompson**

External Reliability Standards Coordinator

T: 403-539-2625

E: [mark.thompson@aeso.ca](mailto:mark.thompson@aeso.ca)

## Alberta Reliability Standards

Standard	Name/Description	Status	Due Date
INT-008-AB-3	Interchange Authority Distributes Status	Submitted to AUC	2009-08-24
INT-009-AB-1	Implementation of Interchange	Submitted to AUC	2009-09-17
INT-010-AB-1	Interchange Coordination Exemptions	Submitted to AUC	2009-08-17
MOD-006-0 N/A	Procedures for the Use of Capacity Benefit Margin Values	Submitted to AUC	2009-08-24
MOD-007-0 N/A	Documentation of the Use of Capacity Benefit Margin	Submitted to AUC	2009-08-24
MOD-013-1 N/A	Maintenance and Distribution of Dynamics Data Requirements and Reporting Procedures	Submitted to AUC	2009-08-24
MOD-014-0 N/A	Development of Steady-State System Models	Submitted to AUC	2009-08-24
MOD-015-0 N/A	Development of Dynamics System Models	Submitted to AUC	2009-08-24
MOD-020-0 N/A	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	Submitted to AUC	2009-08-24
MOD-021-0 N/A	Documentation of the Accounting Methodology for the Effects of Controllable Demand-Side Management in Demand and Energy Forecasts	Submitted to AUC	2009-08-24

N/A means Not Applicable in Alberta

## Alberta Reliability Standards

Standard	Name/Description	Status	Due Date
PRC-002-1 N/A	Define Regional Disturbance Monitoring and Reporting Requirements	Submitted to AUC	2009-08-17
PRC-003-1 N/A	Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems	Submitted to AUC	2009-08-24
PRC-004-2 N/A	Reliability Coordinator Staffing	Submitted to AUC	2009-08-24
PRC-006-0 N/A	Development and Documentation of Regional Reliability Organizations' Underfrequency Load Shedding Programs	Submitted to AUC	2009-08-24
PRC-009-AB-0	Analysis and Documentation of Underfrequency Load Shedding	Submitted to AUC	2009-08-24
PRC-010-AB-0	Technical Assessment of the Design and Effectiveness of Under Voltage Load	Submitted to AUC	2009-08-17
PRC-012-0 N/A	Special Protection System Review Procedure	Submitted to AUC	2009-08-24
PRC-013-0 N/A	Special Protection System Database	Submitted to AUC	2009-08-24

N/A means Not Applicable in Alberta

## Alberta Reliability Standards

Standard	Name/ Description	Status	Due Date
PRC-014-0 N/A	Special Protection System Assessment	Submitted to AUC	2009-08-24
PRC-020-1 N/A	Under Voltage Load Shedding Program Database	Submitted to AUC	2009-08-24
PRC-021-AB-1	Under Voltage Load Shedding Program Data	Submitted to AUC	2009-08-10
PRC-022-AB-1	Under Voltage Load Shedding Program Performance	Submitted to AUC	2009-08-17
TPL-001-AB-0	System Performance Under Normal (No Contingency) Conditions (Category A)	Submitted to AUC	2009-08-24
TPL-002-AB-0	System Performance Following Loss of a Single Bulk Electric System Element (Category B)	Submitted to AUC	2009-08-17
TPL-003-AB-0	System Performance Following Loss of Two or More Bulk Electric System Elements (Category C)	Submitted to AUC	2009-08-17
TPL-004-AB-0	System Performance Following Extreme Events Resulting in the Loss of Two or More Bulk Electric System Elements (Category D)	Submitted to AUC	2009-08-17
TPL-005-0 N/A	Regional and Interregional Self-Assessment Reliability Reports	Submitted to AUC	2009-08-17

N/A means Not Applicable in Alberta

## Alberta Reliability Standards

Standard	Name/ Description	Status	Due Date
TPL-006-0 N/A	Data From the Regional Reliability Organization Needed to Assess	Submitted to AUC	2009-08-24
CIP-001-AB-1	Sabotage Reporting	Stakeholder Consultation	2009-10-02
EOP-001-AB-1	Emergency Operations Planning	Stakeholder Consultation	2009-10-02
MOD-002-0 N/A	Review of Transmission Service Provider Total Transfer Capability and Available Transfer Capability Calculations and Results	Stakeholder Consultation	2009-10-02
MOD-003-0 N/A	Regional Procedure for Input on Total Transfer Capability and Available Transfer Capability Methodologies and Values	Stakeholder Consultation	2009-10-02
MOD-004-0 N/A	Documentation of Regional Reliability Organization Capacity Benefit Margin Methodologies	Stakeholder Consultation	2009-10-02
MOD-005-0 N/A	Procedure for Verifying Capacity Benefit Margin Values	Stakeholder Consultation	2009-10-02
MOD-009-0 N/A	Procedure for Verifying Transmission Reliability Margin Values	Stakeholder Consultation	2009-10-02
MOD-016-AB-1.1	Documentation of Data Reporting Requirements for Actual and Forecast Demands, Net Energy for Load, and Controllable Demand-Side Management	Stakeholder Consultation	2009-10-02
MOD-017-AB-0.1	Aggregated Actual and Forecast Demands and Net Energy for Load	Stakeholder Consultation	2009-10-02

N/A means Not Applicable in Alberta

## Alberta Reliability Standards

Standard	Name/ Description	Status	Due Date
MOD-018-AB-0	Treatment of Nonmember Demand Data and How Uncertainties are Addressed in the Forecasts of Demand and Net Energy for Load	Stakeholder Consultation	2009-10-02
MOD-019-AB-0	Reporting of Interruptible Demands and Direct Control Load Management	Stakeholder Consultation	2009-10-02
PRC-015-AB-0	Special Protection System Data and Documentation	Stakeholder Consultation	2009-10-02
TOP-007-WECC-AB-1	System Operating Limits	Stakeholder Consultation	2009-10-02
IRO-006-4 N/A	Reliability Coordination – Transmission Loading Relief	Stakeholder Consultation	2009-08-28
IRO-006-WECC-AB-1	Qualified Transfer Path Unscheduled Flow Relief	Stakeholder Consultation	2009-09-14
NUC-001-1 N/A	Nuclear Plant Interface Coordination	Stakeholder Consultation	2009-08-28
PRC-001-AB-1	System Protection Coordination	Stakeholder Consultation	2009-09-14
PRC-004-AB-1	Analysis and Mitigation of Transmission and Generation Protection System Misoperations	Stakeholder Consultation	2009-09-14
PRC-004-WECC-AB-1	Protection System and Remedial Action Scheme Misoperation	Stakeholder Consultation	2009-09-14
PRC-005-AB-1	Transmission and Generation Protection System Maintenance and Testing	Stakeholder Consultation	2009-09-14
PRC-016-AB-0	Special Protection System Misoperations	Stakeholder Consultation	2009-09-14

N/A means Not Applicable in Alberta

## Reliability Committee and Work Group Highlights

**Alberta Reliability Committee (ARC)** – An ARC meeting was held June 12, 2009. There are 9 standards assigned to the AESO internal work group that were not ready to be presented to ARC. These will be either emailed to ARC for review or will be presented at the September ARC meeting. 12 Alberta reliability standards were reviewed and no concerns expressed by ARC members. The AESO will move the standards into the October ISO Rules cycle. [More...](#)

**Operations Work Group** – The OWG met on June 8. Twelve standards were proposed to be not applicable to any Alberta entity. Ten are ready to go to the ARC for approval. The group began review of 8 standards that will be recommended at the September ARC meeting. These standards will go through the development process during the summer. The next WG meeting will be on October 21. [More...](#)

**Technical Work Group** – The TWG met on June 9. Four Standards are ready to go to the ARC for approval (2 in conjunction with the OWG). The TWG began their preliminary assessment on 4 PRC standards. The next meeting is scheduled for October 22. [More...](#)

**Transmission Planning Work Group** – The next work group meeting is tentatively scheduled for later in 2009. [More...](#)

**Security Work Group** – The SWG met on July 14. Changes that were made to CIP-002-AB-1 by AESO Legal were reviewed by the WG. Effective dates were an issue for many of the participants. The WG members have been asked to prepare a time estimate to meet the standard. The next meeting is scheduled for September 10. [More...](#)

**Compliance Work Group** – A compliance monitoring program for standards has been completed and is being used to develop an implementation plan for 2009. The program was developed with extensive stakeholder consultation at 10 meetings of the workgroup over eight months. The program is well received and supported by the stakeholders.

ISO Rule 12 is approved and enables monitoring of reliability standards as established in the compliance monitoring program. Compliance monitoring will be implemented for each of the standards prior to the effective date of the standard. Standards under approval have effective dates well into 2009, at which time compliance monitoring will be initiated.

The ARC compliance working group has met its original mandate of providing input and advice in establishing the Compliance Monitoring Program and the Implementation Program for Alberta. Bi-monthly meetings will be scheduled with the compliance working group to discuss key issues related to compliance and the implementation of the programs. [More...](#)

**Standards Review Committee (SRC) of ISO/RTO Council** – The SRC holds biweekly teleconferences and quarterly meetings to discuss and review the current NERC standards posted for review and to draft group responses to them. The next a quarterly meeting is being hosted by MISO in early October.