

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

Related Links

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

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
CIP-005-1	Cyber Security – Electronic Security Perimeters	Ballot Period Ended	2009-09-08
CIP-006-1 RFI for PacifiCorp	Cyber Security – Physical Security	Ballot Period Ended	2009-09-08
PRC-005-2	Protection System Maintenance and Testing	Comment Period Ended	2009-09-08
CIP-007-1	Systems Security Management	Ballot Period Ended	2009-09-21
FAC-008-2	Facility Ratings Methodology	Comment Period Ended	2009-09-09
EOP-008-1	Backup Facilities	Ballot Period Ended	2009-09-28
VAR-001-1a VAR-002-1	Voltage and Reactive Control & Generator Operation for Maintaining Network Voltage Schedules	Comment Period Ended	2009-09-17



AESO Reliability Standards Monthly Report

September 2009

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

NERC Standards

Standard	Name/Description	Status	Due Date
TOP-001 to 003	Real-Time Operations	Comment Period Ended	2009-09-24
CIP-001-1	Sabotage Reporting	Recirculation Ballot	2009-10-09
CIP-006-1 RFI for Progress	Physical Security of Critical Cyber Assets	Ballot Period	2009-10-12
TPL-001-1	Transmission System Planning Performance Requirements	Posted For Comment	2009-10-16
FAC-003-2	Vegetation Management	Posted For Comment	2009-10-24
PRC-001-2	System Protection Coordination	Posted For Comment	2009-10-26

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

WECC Standards and Related Postings

Standard	Name/Description	Status	Due Date
WECC-0055 Regional Criterion	Remedial Action Scheme	Comment Period	2009-09-02
WECC-0059 Regional Criterion	Relay Misoperation Procedure	Comment Period	2009-09-02
WECC-0064 Regional Criterion	Western Interchange Tool Check-out Confirmation	Comment Period	2009-09-02
WECC-0065 Regional Criterion	Underfrequency Load Shedding	Comment Period	2009-09-02
WECC-0066 Regional Criterion	Digital Circuits Synchronization	Comment Period	2009-09-02
WECC-0067 Regional Standard	Subsynchronous Resonance Assessment	Comment Period	2009-09-09
WECC-0047 Business Practice	Preschedule Process	Comment Period	2009-10-10
WECC-0058 Definition	Bulk Electric System	Comment Period	2009-11-13

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

Alberta Reliability Standards

Standard	Name/Description	Status	Due Date
BAL-001-AB-0a	Real Power Balancing Control Performance	Approved by the AUC	2009-09-09
EOP-002-AB-2	Capacity and Energy Emergencies	Approved by the AUC	2009-09-23
EOP-006-1 N/A	Reliability Coordination - System Restoration	Approved by the AUC	2009-09-16
EOP-007-0 N/A	Establish, Maintain, and Document a Regional Black Start Capability Plan	Approved by the AUC	2009-09-16
FAC-001-AB-0	Facility Connection Requirements	Approved by the AUC	2009-09-23
FAC-002-AB-0	Coordination of Plans For New Generation, Transmission, and End-User	Approved by the AUC	2009-09-23
FAC-501-WECC-AB-1	Transmission Maintenance (former PRC std)	Approved by the AUC	2009-09-09
INT-001-AB-3	Interchange Information	Approved by the AUC	2009-09-23
INT-004—2 N/A	Dynamic Interchange Transaction Modifications	Approved by the AUC	2009-09-16
INT-005-AB-3 N/A	Interchange Authority Distributes Arranged Interchange	Approved by the AUC	2009-09-16
INT-006-AB-2	Response to Interchange Authority	Approved by the AUC	2009-09-23
INT-007-AB-1 N/A	Interchange Confirmation	Approved by the AUC	2009-09-16

N/A means Not Applicable in Alberta

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

Alberta Reliability Standards

Standard	Name/Description	Status	Due Date
INT-008-AB-3 N/A	Interchange Authority Distributes Status	Approved by the AUC	2009-09-16
INT-009-AB-1	Implementation of Interchange	Approved by the AUC	2009-09-23
INT-010-AB-1	Interchange Coordination Exemptions	Approved by the AUC	2009-09-23
MOD-006-0 N/A	Procedures for the Use of Capacity Benefit Margin Values	Approved by the AUC	2009-09-16
MOD-007-0 N/A	Documentation of the Use of Capacity Benefit Margin	Approved by the AUC	2009-09-16
MOD-013-1 N/A	Maintenance and Distribution of Dynamics Data Requirements and Reporting Procedures	Approved by the AUC	2009-09-16
MOD-014-0 N/A	Development of Steady-State System Models	Approved by the AUC	2009-09-16
MOD-015-0 N/A	Development of Dynamics System Models	Approved by the AUC	2009-09-16
MOD-020-0 N/A	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	Approved by the AUC	2009-09-16
MOD-021-0 N/A	Documentation of the Accounting Methodology for the Effects of Controllable Demand-Side Management in Demand and Energy Forecasts	Approved by the AUC	2009-09-16

N/A means Not Applicable in Alberta

Alberta Reliability Standards

Standard	Name/Description	Status	Due Date
PER-004-2 N/A	Reliability Coordinator Staffing	Approved by the AUC	2009-09-16
PRC-002-1 N/A	Define Regional Disturbance Monitoring and Reporting Requirements	Approved by the AUC	2009-09-16
PRC-003-1 N/A	Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems	Approved by the AUC	2009-09-16
PRC-006-0 N/A	Development and Documentation of Regional Reliability Organizations' Underfrequency Load Shedding Programs	Approved by the AUC	2009-09-16
PRC-009-AB-0	Analysis and Documentation of Underfrequency Load Shedding	Approved by the AUC	2009-09-23
PRC-010-AB-0	Technical Assessment of the Design and Effectiveness of Under Voltage Load	Approved by the AUC	2009-09-23
PRC-012-0 N/A	Special Protection System Review Procedure	Approved by the AUC	2009-09-16
PRC-013-0 N/A	Special Protection System Database	Approved by the AUC	2009-09-16

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	Approved by the AUC	2009-09-16
PRC-020-1 N/A	Under Voltage Load Shedding Program Database	Approved by the AUC	2009-09-16
PRC-021-AB-1	Under Voltage Load Shedding Program Data	Approved by the AUC	2009-09-09
PRC-022-AB-1	Under Voltage Load Shedding Program Performance	Approved by the AUC	2009-09-23
TPL-001-AB-0	System Performance Under Normal (No Contingency) Conditions (Category A)	Approved by the AUC	2009-09-23
TPL-002-AB-0	System Performance Following Loss of a Single Bulk Electric System Element (Category B)	Approved by the AUC	2009-09-23
TPL-003-AB-0	System Performance Following Loss of Two or More Bulk Electric System Elements (Category C)	Approved by the AUC	2009-09-23
TPL-004-AB-0	System Performance Following Extreme Events Resulting in the Loss of Two or More Bulk Electric System Elements (Category D)	Approved by the AUC	2009-09-23
TPL-005-0 N/A	Regional and Interregional Self-Assessment Reliability Reports	Approved by the AUC	2009-09-16

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	Approved by the AUC	2009-09-16
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 were 9 standards assigned to the AESO internal work group that were not ready to be presented to ARC. These were emailed to ARC for review. 12 Alberta reliability standards were reviewed with no concerns expressed by ARC members. The AESO moved the standards into the October ISO Rules cycle. The next ARC meeting is scheduled for Nov. 16 [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 – Four Alberta TPL Standards have been approved by the AUC. [More...](#)

Security Work Group – The SWG met on Sept 10. The RCMP gave a presentation on their Suspicious Incident Reporting System. Peter Wong, from the AESO, presented an update on compliance for the Alberta Reliability Standards. CIP-002, 003 and 004 were reviewed. The next meeting is scheduled for October 9. [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 quarterly meeting is being hosted by MISO on October 6.