



**NERC, WECC and ARC
Reliability Standards Activities
Monthly Report – September 2008**

This report gives an overview of the AESO activities dealing with the NERC and WECC standards that are posted for review, comment or balloting. The AESO consults with internal subject matter experts, members of the AESO Reliability Committee Working Groups and the Standards Review Committee (SRC) of the ISO/RTO Council when responding to NERC and WECC on the standards. The report also includes a summary of [Alberta Reliability Committee \(ARC\)](#) and its Working Groups activities.

Click on a Standard Activity to get information on recent developments.

Developer	Standard Activities	Name/Description	Purpose	Status	Due Date
NERC	MOD-001-1 008-1 028-1 029-1 030-1	ATC/TTC and CBM/TRM	Revised Standard	Ballot Period Ended	Aug. 21, 2008
NERC	IRO-008-1 IRO-009-1 IRO-010-1	Operate Within Interconnection Reliability Operating Limits	9 th Draft Proposed Standards	Ballot Period Ended	Aug. 21, 2008
NERC	FAC-008-2	Facility Ratings Methodology	Revised Standard Draft 3	Posted for Comment	Aug. 26, 2008
NERC	FAC-011-2	Credible Multiple Element Contingencies	Draft SAR Version 2	Posted for Comment	Sept. 10, 2008
NERC	Multiple Standards	Reliability Coordination	Revised Standards Draft 1	Posted for Comment	Sept. 16, 2008
NERC	VAR-002-1a	Voltage and Reactive Control	Request for Interpretation	Ballot Period Ended	Sept. 17, 2008
NERC	MOD-004-1	Capacity Benefit Margin	Revised Standard	Ballot Period Ended	Sept. 22, 2008
NERC	INT-005-3 INT-006-3 INT-008-3	Coordinate Interchange Timing Tables	Urgent Action SAR Version 3	Ballot Period Ended	Sept. 22, 2008
NERC	MOD-030-1	Flowgate Methodology	Draft SAR Version 1	Posted for Comment	Sept. 24, 2008
NERC	EOP-002-2	Capacity and Energy Emergencies	Request for Interpretation	Ballot Period Ended	Sept. 28, 2008
NERC	TPL-001-1	Transmission System Planning Performance Requirements	Revised Standard Draft 2	Posted for Comment	Sept. 29, 2008
NERC	BAL-007 to 011	Reliability-based Control	SAR to Standard Drafting	Posted for Comment	Sept. 29, 2008
NERC	EOP-008-1	Backup Facilities	Revised Standard Draft 2	Posted for Comment	Oct. 9, 2008
NERC	TOP-002-2	Normal Operations Planning	Request for Interpretation	Pre-ballot Review	Oct. 17, 2008
NERC	PER-005-1	System Personnel Training	Revised Standard Draft 5	Pre-ballot Review	Oct. 25, 2008
NERC	FAC-008-2	Facility Ratings	Revised Standard Draft 4	Pre-ballot Review	Oct. 25, 2008

Developer	Standard Activities	Name/Description	Purpose	Status	Due Date
WECC	PRC-024-WECC-1	Low Voltage Ride-Through	Revised Standard Draft 2	Posted for Comment	Oct. 10, 2008

NERC Standards Development page is on-line at:

http://www.nerc.com/filez/standards/Reliability_Standards_Under_Development.html

WECC Standards Development page is on-line at:

<http://www.wecc.biz/index.php?module=pnForum&func=viewforum&forum=1>

NERC Reliability Standards

MOD-001-1, 008-1, 028-1, 029-1 & 030-1 - ATC/TTC and CBM/TRM

Purpose:

SAR to revise the standards.

Current Standard:

MOD-001 — Available Transfer Capability — An “umbrella” standard requires the selection of a methodology, the updating of values, and the sharing of procedures and data.

MOD-008 — Transmission Reliability Margin — A standard that describes the calculation and use of TRM.

MOD-029 — Rated System Path Methodology — A standard that describes the calculation of TTC and ATC, as performed primarily in the Western Interconnection.

MOD-028 and 030 are methodologies not used in the WECC.

Proposed Standard:

This set of standards is aimed at ensuring the consistent and transparent calculation, verification, and use of CBM, TRM, TTC, AFC, and ATC. The standards have been revised based on stakeholder comments, coordination with NAESB, and the directives in the FERC Orders 693 and 890.

Applicability:

Transmission Service Providers, Transmission Operators, Load-Serving Entities, Planned Resource Sharing Groups, Balancing Authorities, Transmission Planners.

Current Status:

The ballot period ended August 21, 2008 with all 5 standards being approved by the NERC ballot pool. The AESO cast Affirmative ballots for MOD-001, 008 & 029 and Abstain ballots for MOD-028 and 030.

NERC Link:

<http://www.nerc.com/filez/standards/MOD-V0-Revision.html>

IRO-008-1 - Reliability Coordinator Operational Analyses and Real-time Assessments

IRO-009-1 - Reliability Coordinator Actions to Operate Within IROLs

IRO-010-1 - Reliability Coordinator Data Specification and Collection

Purpose:

Version 1 Standards, Draft 9. The purpose of these standards is to prevent instability, uncontrolled separation or cascading outages that adversely impact the reliability of the bulk transmission system.

Current Standards:

These three standards are new, not revisions to Version 0 standards. These standards do, however address some of the same topics as addressed in some of the Version 0 standards.

The ballot for each of the IROL standards includes the retirement of associated requirements from some already approved standards and effective dates identified in this implementation plan. The effected Standards are EOP-001, IRO-002, IRO-004, IRO-005, TOP-003, TOP-005 and TOP-006.

Proposed Standards:

The drafting team has made some modifications to standards IRO-008-1 through IRO-010-1 to bring them into conformance with the latest draft of the ERO Rules of Procedure and has posted draft 9 and the associated implementation plan for a 30-day comment period.

The purpose of these standards is to prevent instability, uncontrolled separation or cascading outages that adversely impact the reliability of the bulk transmission system.

Applicability:

Reliability Coordinators, Balancing Authorities, Generator Owners, Generator Operators, Interchange Authorities, Load-Serving Entities, Transmission Operators, Transmission Owners

Current Status:

The ballot period ended August 21, 2008 with all 3 standards being approved by the NERC ballot pool. The AESO cast Affirmative ballots for IRO-008 and 009 and a Negative ballot for IRO-010 due to concerns with confidential data.

NERC Link:

<http://www.nerc.com/filez/standards/IROL.html>

FAC-008-2 – Facility Ratings Methodology

Purpose:

Draft 3 of the revised standard. The Facility Ratings standard is undergoing modifications to address the directives in FERC Order 693. The purpose of the standard is to ensure that Facility Ratings used in the reliable planning and operation of the Bulk Electric System are determined based on technically sound principles.

Current Standard:

There are two Facility Ratings standards, FAC-008-1 and FAC-009-1, being modified into one to address concerns raised by FERC and industry stakeholders.

Proposed Standard:

The revised standard will:

- Provide an adequate level of reliability for the North American bulk power systems - the standards are complete and the requirements are set at an appropriate level to ensure reliability.
- Ensure they are enforceable as mandatory reliability standards with financial penalties - the applicability to bulk power system owners, operators, and users, and as appropriate particular classes of facilities, is clearly defined; the purpose, requirements, and measures are results-focused and unambiguous; the consequences of violating the requirements are clear.
- Consider comments received during the initial development of the standards and other comments received from ERO regulatory authorities and stakeholders.
- Bring the standards into conformance with the latest version of the Reliability Standards Development Procedure and the ERO Rules of Procedure.
- Satisfy the standards procedure requirement for five-year review of the standards.

Applicability:

Transmission Owners, Generation Owners

Current Status:

Posted for comment until August 26, 2008.

NERC Link:

http://www.nerc.com/filez/standards/Facility_Ratings_Project_2006-09.html

FAC-011-2 - Credible Multiple Element Contingencies

Purpose:

Draft SAR, Version 2, posted for comment.

Current Standard:

FERC has requested that some terms used in the standard be further clarified.

Proposed Standard:

The SAR proposes revisions to FAC-011-2 that require consideration of applicable Contingency events that may result in the loss of multiple elements for determining the subset of SOLs that could be IROLs in the operating horizon and to include information received from the Planning Authority in the analysis.

Applicability:

Reliability Coordinators

Current Status:

Posted for comment until September 10, 2008.

NERC Link:

http://www.nerc.com/filez/standards/Facility_Ratings_Project_2008-05.html

COM-001-2, 002-3, PER-004-1, PRC-001-1, IRO-001-2, 002-2005-1 014-2, 015-1 & 016-1 – Reliability Coordination

Purpose:

Version 1 standards posted for comment.

Current Standards:

Most of the requirements in this set of standards were translated from Operating Policies as part of the Version 0 process. There have been suggestions for improving these requirements, and the drafting team will consider comments submitted by stakeholders, drafting teams and FERC in determining what changes should be proposed to stakeholders.

Proposed Standard:

The revisions are to ensure that the reliability-related requirements applicable to the Reliability Coordinator are clear, measurable, unique and enforceable; and to ensure that this set of requirements is sufficient to maintain reliability of the Bulk Electric System

The drafting team will review all of the requirements in the following set of standards:

COM-001 — Telecommunications

COM-002 — Communications and Coordination

IRO-001 — Reliability Coordination – Responsibilities and Authorities

IRO-002 — Reliability Coordination – Facilities

IRO-005 — Reliability Coordination – Current Day Operations

IRO-014 — Procedures to Support Coordination between Reliability Coordinators

IRO-015 — Notifications and Information Exchange Between Reliability Coordinators

IRO-016 — Coordination of Real-time Activities between Reliability Coordinators

PER-004 — Reliability Coordination – Staffing

PRC-001 — System Protection Coordination

For each existing requirement, the drafting team will work with stakeholders and:

- Eliminate redundancy in the requirements.
- Identify requirements that should be moved into other SARs
- Eliminate requirements that do not support bulk power system reliability
- Transfer requirements that need to be in place before an entity begins operation as an RC to certification.
- Improve clarity of, improve measurability of, and remove ambiguity from the requirement

Applicability:

Transmission Operators, Balancing Authorities, Reliability Coordinators, Distribution Providers, Generator Operators, Transmission Service Providers, Load-Serving Entities, Purchasing-Selling Entities

Current Status:

Posted for comment until September 16, 2008.

NERC Link:

http://www.nerc.com/filez/standards/Reliability_Coordination_Project_2006-6.html

VAR-002-1a -Voltage and Reactive Control

Purpose:

Request for Interpretation

Standard:

The request asks:

Which requirements in VAR-002 apply to Generator Operators that operate generators that do not have automatic voltage regulation (AVR) capability?

Does the standard require a Generator Owner to acquire AVR devices to comply with the requirements in this standard?

The NERC response states that the standard does apply because there is an "out" whereby a generator operator informs the transmission operator that the generator does not have AVR. The full response can be viewed on line using the link below.

Applicability:

Transmission Operators and Purchase-Selling Entities

Current Status:

The ballot period ended on Sept. 17. The AESO cast an Affirmative ballot for the interpretation. The interpretation was approved by NERC ballot

NERC Link:

http://www.nerc.com/filez/standards/Project2008-11_VAR-002_Interpretation.html

MOD-004-1 – Capacity Benefit Margin

Purpose:

SAR to revise the standard.

Current Standard:

MOD-004 — Capacity Benefit Margin — A standard that describes the requesting, calculation, and use of CBM.

Proposed Standard:

This standard addresses the reliability aspects of determining and maintaining a Capacity Benefit Margin and the conditions under which that margin may be used.

The ballot for this standard includes the retirement of the following associated approved standards:

- MOD-005-0 — Procedure for Verifying CBM Values
- MOD-006-0 — Procedures for the Use of Capacity Benefit Margin Values
- MOD-007-0 — Documentation of the Use of Capacity Benefit Margin

Applicability:

Load-Serving Entities, Resource Planners, Transmission Service Providers, Balancing Authorities, Transmission Planners

Current Status:

Balloting ended on Sept. 22, 2008 and the Standard did not receive a 2/3s majority. The AESO cast an “Abstain” vote. The NERC Standards Drafting Team will decide how to proceed.

NERC Link:

<http://www.nerc.com/filez/standards/MOD-V0-Revision.html>

INT-005-3, 006-3 and 008-3 – Coordinate Interchange Timing Tables

Purpose:

Urgent Action SAR posted for ballot.

Current Standard:

The Coordinate Interchange Timing Table Standard Drafting Team made additional modifications to the timing tables in response to stakeholder comments and made a minor clarification to INT-006-2, Requirement R1.

Proposed Standard:

An Urgent Action SAR to modify the Timing Table in three of the Coordinate Interchange standards (INT-005, INT-006, and INT-008) was approved by its ballot pool on March 30, 2007. The Urgent Action SAR modified the timing table so that the reliability assessment period for WECC was lengthened from 5 minutes to 10 minutes for e-tags submitted less than 1 hour and greater than 20 minutes prior to ramp start. Under the Reliability Standards Development Procedure, a change made to a standard with the Urgent Action process is not "permanent" — an urgent action change to a standard expires unless that change is vetted through the full standards development process.

The new SAR proposes to make the above changes to the timing table permanent, and also proposes to bring the timing table into alignment with the categories (On-time, Late, After-the-fact) used in the latest E-Tag Specification with respect to receipt of an Arranged Interchange.

Applicability:

Interchange Authorities, Balancing Authorities, Transmission Service Providers

Current Status:

The ballot period ended Sept. 22, 2008 and the standards were approved by the NERC ballot pool. The AESO cast an Affirmative ballot for the revised standards.

NERC Link:

http://www.nerc.com/filez/standards/INT_Urgent_Action.html

MOD-030-2 - Flowgate Methodology

Purpose:

Draft SAR, Version 1, posted for comment.

Current Standard:

MOD-030-1 was recently approved by the NERC ballot pool.

Proposed Standard:

This new version of the standard was developed based on stakeholder comments submitted with the initial ballot of MOD-030-1 conducted July 21–30, 2008. The drafting team’s responses to the comments submitted with the ballots for this standard are posted for stakeholder review. MOD-030-1 will continue through the recirculation ballot process at the same time this new version of the standard goes through the standards development process. As envisioned, the new version of MOD-030-2 will be approved by its ballot pool and filed for regulatory approval before MOD-030-1 becomes effective. Requirements 2 and 11 of MOD-030-1 will be modified.

Applicability:

Transmission Operators and Transmission Service Providers that use the Flowgate Methodology.
The AESO does not use the Flowgate Methodology.

Current Status:

Posted for comment until Sept. 26, 2008. The AESO will not be commenting on this standard as it not used in our area.

NERC Link:

<http://www.nerc.com/filez/standards/MOD-V0-Revision.html>

EOP-002-2– Capacity and Energy Emergencies

Purpose:

Request for Interpretation.

Standard:

Brookfield Power submitted a Request for an Interpretation of EOP-002-2 — Capacity and Energy Emergencies. The request asked for clarification about the treatment of export transactions during emergency operations.

The request for interpretation asked if, to assist in complying with Control Performance and Disturbance Control Standards, Requirement R6.3 requires curtailment of non-firm exports when interruptible load is curtailed while R7.1 requires curtailment of firm exports when firm load is curtailed.

The revised interpretation clarifies that when considering actions to be taken to comply with EOP-002-2 Requirement R6.3, it is intended that all exports, firm and non-firm, are available for curtailment with the exception of those exports designated as network resources for an external Balancing Authority. If a capacity or energy emergency still exists after all exports have been curtailed with the exception of those related to a network resource designated to an external Balancing Authority, then EOP-002-2 Requirement R7.1 would take effect and firm load would be shed while the designated network resource transaction would continue to flow.

Applicability:

Balancing Authorities, Reliability Coordinators, Load-Serving Entities

Current Status:

The revised interpretation was posted for ballot until Sept. 28, 2008. The AESO cast an Affirmative ballot on the interpretation. A quorum was not reached and the interpretation will be re-balloted.

NERC Link:

<http://www.nerc.com/filez/standards/EOP-002-2 Interpretation Brookfield Power 2008-07.html>

TPL-001-1 - Transmission System Planning Performance Requirements

Purpose:

Revised Standard, Draft 2, posted for comment.

Current Standard:

The current version is the second iteration of the revision of existing standards TPL-001 through TPL-006 and includes one revised standard, TPL-001-1, replacing TPL-001-0, TPL-002-0, TPL-003-0 and TPL-004-0.

Proposed Standard:

TPL-001-1 will establish a standard for assessing and planning the transmission systems in North America. The transmission system must be assessed and planned to ensure that it performs its intended functions in providing reliable delivery of power for the future needs of customers.

Applicability:

Planning Coordinators, Transmission Planners, Resource Planners, Distribution Providers, Transmission Owners, Generator Owners

Current Status:

Posted for comment until September 29, 2008. The AESO submitted comments, which can be viewed at the link below.

NERC Link:

<http://www.nerc.com/filez/standards/Assess-Transmission-Future-Needs.html>

BAL-007 to 011 - Reliability Based Control

Purpose:

To provide comments on Reliability-based Control Metrics.

Current Standard:

These will be new standards.

Proposed Standard:

This project includes expanding on the work already done in developing the draft BAL-007 through BAL-011 by adding requirements to address the following concerns:

- To support corrective action by the BA when excessive Area Control Error (as determined by this standard) may be contributing to or causing action to be taken to correct an SOL/IROL problem
- To prevent Interconnection frequency excursions of short duration attributed to the ramping of on and off-peak Interchange Transactions
- To support timely transmission congestion relief by requiring corrective load/generation management by the Balancing Authority(ies) within a defined timeframe when participating in transmission loading relief procedures.
- To address the directives of FERC Order 693.
- To ensure that when finalized the standards associated with this project conform to the latest versions of NERC's Reliability Standards Development Procedure, the Sanction Guidelines of the North American Electric Reliability Corporation, and the ERO Rules of Procedure.

Additionally, the frequency model used to establish the frequency-based limits will be reviewed to see if additional enhancements are necessary.

Applicability:

Balancing Authorities

Current Status:

The Standards Committee authorized moving the Reliability-based Control SAR forward to standard drafting. Comment period on Reliability-based Control Metrics is open until Sept. 29, 2008. The AESO submitted comments as part of the ISO/RTO Standards Review Committee. They can be viewed at the link below.

NERC Link:

http://www.nerc.com/filez/standards/Reliability-Based_Control_Project_2007-18.html

EOP-008-1 – Backup Facilities

Purpose:

Revised Standard, Draft 2, posted for comment.

Current Standard:

The current standard is Version 0 and was adopted from the non-mandatory standards.

Proposed Standard:

The purpose of revising this standard is to:

- Provide an adequate level of reliability for the North American bulk power systems.
- Ensure it is enforceable as a mandatory reliability standard with financial penalties — the applicability to bulk power system owners, operators, and users, and as appropriate particular classes of facilities, is clearly defined; the purpose, requirements, and measures are results-focused and unambiguous; the consequences of violating the requirements are clear.
- Incorporate other general improvements described in the standards development work plan
- Consider stakeholder comments received during the initial development of the standard and other comments received from ERO regulatory authorities.
- Satisfy the standards procedure requirement for five-year review of the standards.

Applicability:

Reliability Coordinators, Transmission Operators, Balancing Authorities

Current Status:

Posted for comment until Oct. 9, 2008.

NERC Link:

http://www.nerc.com/filez/standards/Backup_Facilities.html

TOP-002-2 – Normal Operations Planning

Purpose:

Request for Interpretation (RFI).

Standard:

The standard addresses current operations plans and procedures that are essential to being prepared for reliable operations, including response for unplanned events.

The Orlando Utilities Commission RFI is on TOP-002-2, R11.

The request asks:

1. Is the Transmission Operator required to conduct a "unique" study for each operating day, even when the actual or expected system conditions are identical to other days already studied? In other words, can a study be used for more than one day?
2. Are there specific actions required to implement a "study"? In other words, what constitutes a study?
3. Does the term, "to determine SOLs" as used in the first sentence of Requirement 11 mean the "determination of system operating limits" or does it mean the "identification of potential SOL violations"?

Applicability:

Balancing Authorities, Transmission Operators, Generation Operators, Load Serving Entities, Transmission Service Providers

Current Status:

The interpretation is posted for pre-ballot review and ballot pool enrolment until Oct. 17, 2008, which will be followed by a 10 day ballot period.

NERC Link:

http://www.nerc.com/filez/standards/Project2008-13_TOP-002_Interpretation_OUC.html

PER-005-1 – System Personnel Training

Purpose:

Revised Standard, Draft 5, posted for Pre-ballot review.

Current Standard:

This is a new standard that will replace PER-002 and parts of PER-004.

Proposed Standard:

This standard will ensure that System Operators performing real-time, reliability-related tasks on the North American Bulk Electric System are competent to perform those tasks. The competency of system operators is critical to the reliability of the North American Bulk Electric System. The Standard will set the minimum acceptable requirements for the development, implementation and maintenance of initial and continuing System Personnel Training programs.

Applicability:

Balancing Authorities, Reliability Coordinators, Transmission Operators

Current Status:

Posted for a 30 day Pre-ballot Review until Oct. 25, which will be followed by a 10 day ballot period.

NERC Link:

<http://www.nerc.com/filez/standards/System-Personnel-Training.html>

FAC-008-2 – Facility Ratings

Purpose:

Revised Standard, Draft 4, posted for Pre-ballot review.

Current Standard:

There are two Facility Ratings standards, FAC-008-1 and FAC-009-1, being modified into one to address concerns raised by FERC and industry stakeholders.

Proposed Standard:

The revised standard will:

- Provide an adequate level of reliability for the North American bulk power systems - the standards are complete and the requirements are set at an appropriate level to ensure reliability.
- Ensure they are enforceable as mandatory reliability standards with financial penalties - the applicability to bulk power system owners, operators, and users, and as appropriate particular classes of facilities, is clearly defined; the purpose, requirements, and measures are results-focused and unambiguous; the consequences of violating the requirements are clear.
- Consider comments received during the initial development of the standards and other comments received from ERO regulatory authorities and stakeholders.
- Bring the standards into conformance with the latest version of the Reliability Standards Development Procedure and the ERO Rules of Procedure.
- Satisfy the standards procedure requirement for five-year review of the standards.

Applicability:

Transmission Owners, Generation Owners

Current Status:

Posted for a 30 day Pre-ballot Review until Oct. 25, which will be followed by a 10 day ballot period.

NERC Link:

http://www.nerc.com/filez/standards/Facility_Ratings_Project_2006-09.html

WECC Reliability Standards

PRC-024-WECC-1-CR – Generator Low Voltage Ride-Through

Purpose:

Revised regional standard, Draft 2, posted for comment.

Current Standard:

The WECC LVRT Standard is a one page document that is not in the standards format being used today. It lacks numbered requirements, measures, compliance information and violation severity levels.

Proposed Standard:

This new Generator LVRT Criterion supersedes the existing WECC LVRT Standard, dated June 17, 2005. The reason for this criterion is to make necessary refinements to the existing WECC LVRT Standard to become compliant with FERC order 661A. However, it does not supersede other existing Regional, National or Industry standards, criteria or guides (for example, Off-Nominal Frequency Standard, Planning Standards, ANSI Standards, IEEE Guides, etc.) that have previously been developed to maintain the reliability of the transmission system or to describe protection requirements for synchronous generators.

Applicability:

Generator Owners, Transmission Service Providers

Current Status:

Posted for comment until Oct. 9, 2008.

WECC Link:

<http://www.wecc.biz/index.php?module=pnForum&func=viewtopic&topic=863>

AESO Reliability Committee (ARC)

The ARC met on September 25. Diana Pommen gave a presentation on the WECC / AESO Membership and Operating Agreement and the implementation plan. AESO members reported on the implementation process for the Alberta Reliability Standards including ISO Rules, effective dates, reporting and monitoring. Jerry Mossing explained the modifications to reliability standards review process based on the AESO's experience with the three standards currently undergoing stakeholder consultation.

The ARC recommended to that the AESO proceed to adopt the following Alberta Reliability Standards:

- BAL-001-AB-0a Real Power Balancing Control Performance
- BAL-003-AB-0a Frequency Response and Bias
- BAL-006-AB-1 Inadvertent Interchange
- TPL-001-AB-0 System Performance Under Normal Conditions
- TPL-002-AB-0 System Performance Following Loss of a Single BES Element
- TPL-003-AB-0 System Performance Following Loss of Two or More BES Elements
- TPL-004-AB-0 System Performance Following Extreme BES Events

And to not adopt the following as Alberta Reliability Standards:

- IRO-002-1 Reliability Coordination - Facilities
- IRO-003-2 Reliability Coordination - Wide-Area View
- IRO-014-1 Procedures, Processes, or Plans to Support Coordination Between Reliability Coordinators
- IRO-015-1 Notifications and Information Exchange Between Reliability Coordinators
- IRO-016-1 Coordination of Real-time Activities Between Reliability Coordinators

These will be included in the January 2009 ISO Rules change cycle.

ARC Operations Work Group

The OWG met on September 12. The AESO will draft the wording for the Alberta reliability standards based on these US reliability standards:

- PER -001-0 Operating Personnel Responsibility and Authority
- PER-002-0 Operating Personnel Training
- EOP-001-0 Emergency Operations Planning

- EOP-003-1 Load Shedding Plans
- EOP-004-1 Disturbance Reporting
- TOP-008-1 Response to Transmission Limit Violations

The OWG will review the AESO drafts at the next scheduled meeting in November.

The OWG assessed that EOP-002-2 Capacity and Energy Emergencies to be applicable only to the ISO. The AESO will draft the wording for the Alberta reliability standard and provide it to the OWG for review.

PRC-007-0 UFLS Programs was given a cursory review by the OWG. The AESO Operations Planning and Analysis group will be requested to prepare a draft of the Alberta standard. Note, this reliability standard is approved by FERC, but is currently under review by NERC.

ARC Technical Work Group

The WG met on September 11. The TWG reviewed FAC-003-AB-1 Vegetation Management Program that was sent for stakeholder consultation in the ISO Rules process. The measures in this standard will be revised by the AESO to add clarity and the standard will be re-circulated to the TWG members. The AESO will address the implementation of FAC-003-AB-1 including the development of a method for outage reporting, templates for a transmission vegetation management program and work plans.

Internal discussion at the AESO is required to address how to move forward with assessments on FAC-001-0 Facility Connection Requirements and FAC-002-0 Coordination of Plans for New Facilities. FAC-002-0 is being assessed by both the TWG and the Transmission Planning Work Group.

The TWG reviewed PRC-STD-005-1 Transmission Maintenance up to Requirement b(i) or MR1.1 as reflected in the draft Alberta reliability standard. PRC-STD-005-1 is a WECC reliability standard and will be replaced by FAC-501-WECC-1 Transmission Maintenance when it is approved by FERC.

ARC Transmission Planning Work Group

The WG met on September 10. TPL-001-AB-0, TPL-002-AB-0, TPL-003-AB-0 and TPL-004-AB-0 were previously sent for review by the organizations of the TPWG members and no significant comments were received. However some improvements to the measures in TPL-001-AB-0 were recommended and the TPWG agreed that the proposed changes made to the measures in TPL-001-AB-0 should be applied to TPL-002-AB-0, TPL-003-AB-0 and TPL-004-AB-0. The TPWG agreed that these Alberta reliability standards should then be submitted to the ARC.

The TPWG started to make assessments on FAC-002-0 Coordination of Plans for New Facilities. This reliability standard is also being assessed by the Technical Work Group. The chairs of the Work Groups involved in the review of this standard will meet to discuss how to proceed with the review of this standard and also FAC-001-0 which is currently under review by NERC.

ARC Security Work Group

The Security Working Group held its initial meeting on September 17. Garry Spicer is Chairing the group. AESO personnel gave presentations on the development of North American Mandatory Reliability Standards, compliance and the Alberta Standards Development process.

The group will meet next in October to review CIP-001-1 and adapt it to the Alberta model.

Compliance Work Group

The development of the Compliance Monitoring Program (CMP) is 90% complete and will be finalized after the next meeting. Tools included in the CMP are:

- i. Audits – table top and spot checking
- ii. Self-certification
- iii. Self-reporting
- iv. Exception reporting

v. Periodic data submission

The WG will decide how these will be implemented and applied during future meetings.

Full details on ARC and ARC WG activities are available at: [Alberta Reliability Committee \(ARC\)](#)

Comments/Questions

If you have any comments or questions about the Reliability Standards listed here or have a comment to submit to NERC or WECC on a Reliability Standard that you would like the AESO to consider, please contact either:

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