

AESO Reliability Committee (ARC) Operations Work Group Meetings Agenda

Chair: Jerry Mossing
Alternate Chair: Doug Hincks

The following are the outcomes from the OWG meeting on February 18, 2009:

1. The work plan for the review of all the standards assigned to the OWG was reviewed with the OWG members.
2. A revised Alberta reliability standards development process was reviewed with the OWG members.
3. The OWG addressed the following standards that were submitted for review within the organizations of the OWG members. No comments were received from the organizations and the OWG members agreed that these standards be recommended to the ARC for consideration in the July 2009 ISO rules cycle:
 - EOP-002-2 Capacity and Energy Emergencies
<http://www.nerc.com/files/EOP-002-2.pdf>
 - PRC-009-0 Analysis and Documentation of Underfrequency Load Shedding
<http://www.nerc.com/files/PRC-009-0.pdf>
 - PRC-010-0 Technical Assessment of the Design and Effectiveness of Undervoltage Load Shedding Program
<http://www.nerc.com/files/PRC-010-0.pdf>
 - PRC-021-1 Under-Voltage Load Shedding Program Data
<http://www.nerc.com/files/PRC-021-1.pdf>
 - PRC-022-1 Under-Voltage Load Shedding Program Performance
<http://www.nerc.com/files/PRC-022-1.pdf>

4. The OWG members assessed the applicability and general content of the following standards. The AESO will draft the Alberta reliability standards based on the comments received from the OWG members and will involve work group members in developing the drafts as identified below. These standards will then be submitted for review within the organizations of the work group members and are targeted to be included in the October 2009 ISO rules cycle.
- EOP-001-0 Emergency Operations Planning (AESO to develop draft – seeking input from WECC)
<http://www.nerc.com/files/EOP-001-0.pdf>
 - IRO-006-4 Reliability Coordination — Transmission Loading Relief (Not FERC approved) (AESO to develop draft - Primarily applies to the VRC)
<http://www.nerc.com/files/IRO-006-4.pdf>
 - IRO-006-WECC-1 Qualified Transfer Path Unscheduled Flow Relief (Not approved by NERC or FERC) (AESO to develop draft – Primarily applies to the ISO)
<http://www.wecc.biz/documents/library/Standards/IRO-006-WECC-5-29-08.pdf>
 - NUC-001-1 Nuclear Plant Interface Coordination (Not FERC approved) (Does not apply to an Alberta entity)
<http://www.nerc.com/files/NUC-001-1.pdf>
 - PRC-003-1 Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems (Not FERC approved) (Does not apply to an Alberta entity – Applies to the WECC) (PRC-003-1 has been moved to the July 2009 ISO rules cycle, see agenda item 2 below)
<http://www.nerc.com/files/PRC-003-1.pdf>
 - PRC-015-0 Special Protection System Data and Documentation (AESO to draft ARS for WECC identified SPS only)
<http://www.nerc.com/files/PRC-015-0.pdf>
 - PRC-016-0 Special Protection System Misoperations (AESO to develop draft)
<http://www.nerc.com/files/PRC-016-0.pdf>
 - TOP-007-WECC-1 System Operating Limits (Not FERC approved) (AESO to develop draft ARS – only applies to the ISO)
http://www.wecc.biz/documents/library/Standards/TOP-007-WECC-1_5-28-08.pdf
 - PRC-001-1 System Protection Coordination (Joint review with the TWG) (AESO to develop draft)
<http://www.nerc.com/files/PRC-001-1.pdf>
 - PRC-004-1 Analysis and Mitigation of Transmission and Generation Protection System Misoperations (Joint review with the TWG) (AESO to develop draft, there is some question whether this reliability standard only applies to the WECC)
<http://www.nerc.com/files/PRC-004-1.pdf>

- PRC-004-WECC-1 Protection System and Remedial Action Scheme Misoperation (Not FERC approved) (Joint review with the TWG) (AESO to develop with AltaLink - technical and operations input required)
<http://www.nerc.com/files/PRC-004-WECC-1.pdf>

The following is the schedule for upcoming ARC OWG meetings:

| Meeting Date | Location |
|---|-------------|
| Monday, June 8, 2009 (9:00 am to 3:00 pm) | AESO Office |
| Wednesday, September 2, 2009 (9:00 am to 3:00 pm) | AESO Office |
| Friday, November 13, 2009 (9:00 am to 3:00 pm) | AESO Office |

The following is the proposed agenda for the meeting on May 7, 2009:

1. Review outcomes from the previous meeting.
2. Review the proposed OWG project work plan for 2009.

Note: the following reliability standards are proposed to be rejected for application in Alberta. These standards were assessed by the AESO and the members of the OWG to not apply to an Alberta entity. This recommendation was supported by the ARC and the AESO ERC and these reliability standards were posted for stakeholder consultation as part of the July ISO rules cycle.

- EOP-006-1 Reliability Coordination – System Restoration
<http://www.nerc.com/files/EOP-006-1.pdf>
- EOP-007-0 Establish, Maintain, and Document a Regional Blackstart Capability Plan
<http://www.nerc.com/files/EOP-007-0.pdf>
- MOD-013-1 Maintenance and Distribution of Dynamics Data Requirements and Reporting Procedures
<http://www.nerc.com/files/MOD-013-1.pdf>
- MOD-014-0 Development of Steady-State System Models
<http://www.nerc.com/files/MOD-014-0.pdf>
- MOD-015-0 Development of Dynamics System Models
<http://www.nerc.com/files/MOD-015-0.pdf>
- PER-004-2 Reliability Coordinator – Staffing
<http://www.nerc.com/files/PER-004-2.pdf>
- PRC-003-1 Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems
<http://www.nerc.com/files/PRC-003-1.pdf>
- PRC-006-0 Development and Documentation of Regional Reliability Organizations' Underfrequency Load Shedding Programs
<http://www.nerc.com/files/PRC-006-0.pdf>

- PRC-012-0 Special Protection System Review Procedure
<http://www.nerc.com/files/PRC-012-0.pdf>
 - PRC-013-0 Special Protection System Database
<http://www.nerc.com/files/PRC-013-0.pdf>
 - PRC-014-0 Special Protection System Assessment
<http://www.nerc.com/files/PRC-014-0.pdf>
 - PRC-020-1 Under-Voltage Load Shedding Program Database
<http://www.nerc.com/files/PRC-020-1.pdf>
3. The OWG will review comments received from the organizations of the OWG members on the standards listed in item 4 of the outcomes from the last meeting and prepare recommendations for the ARC meeting on June 12.
4. In accordance with the OWG project work plan, assess the following reliability standards for application in Alberta. These standards are planned to be recommended at the September ARC meeting for the January 2010 ISO rules cycle:
- EOP-005-2 System Restoration Plans¹
http://www.nerc.com/docs/standards/sar/SRBSDT_EOP-005-2_Prebailot_Review_Clean_2009March03.pdf
 - EOP-008-0 Plans for Loss of Control Centre Functionality
<http://www.nerc.com/files/EOP-008-0.pdf>
 - EOP-009-0 Documentation of Blackstart Generating Unit Test Results will not be reviewed as it will be incorporated into EOP-005-2.
<http://www.nerc.com/files/EOP-009-0.pdf>
 - IRO-001-1 Reliability Coordination – Responsibilities and Authorities
<http://www.nerc.com/files/IRO-001-1.pdf>
 - VAR-001-1a Voltage and Reactive Control (Not FERC approved)
<http://www.nerc.com/files/VAR-001-1a.pdf>
 - VAR-002-1.1a Generator Operation for Maintaining Network Voltage Schedules (Not FERC approved)
http://www.nerc.com/files/VAR-002-1_1a.pdf
 - VAR-002-WECC-1 Automatic Voltage Regulators (Not FERC approved)
<http://www.nerc.com/files/VAR-002-WECC-1.pdf>
 - VAR-501-WECC-1 Power System Stabilizer (Not FERC approved)
<http://www.nerc.com/files/VAR-501-WECC-1.pdf>

Please bring paper copies of the standards to be reviewed to the meetings.

¹ Status of this standard at NERC - The ballot pool approved the standard revisions. The revised standard will be submitted to the NERC Board of Trustees for adoption.

If you are planning on attending the next Operations Work Group meeting and you did not receive an electronic meeting invitation, then please RSVP to betty.dang@aeso.ca by one week prior to the meeting.