

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
Thursday, May 7, 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 plan for 2009, including the status of these reliability standards that are proposed to be rejected for application in Alberta. These standards have been assessed by the AESO to not apply to an Alberta entity. This recommendation, to reject these standards for application in Alberta, is targeted to be made in 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>
 - 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.
4. In accordance with the project plan, assess the following reliability standards for application in Alberta. These standards are planned to be recommended at the September ARC meeting:
- EOP-005-1 System Restoration Plans¹
<http://www.nerc.com/files/EOP-005-1.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 Results¹
<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.

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 allison.mathews@aeso.ca by one week prior to the meeting.

¹ The AESO is proposing to develop a draft Alberta reliability standard that will replace EOP-005 and EOP-009.