

Alberta Reliability Standards Program Work Plan

Update: March 2017

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NERC and WECC Standards		Applicability ¹	Related ISO Rules	Stakeholder Consultation	Forward to the AUC	Forecast Effective Date ²
1. Approved by AUC						
2. Forwarded to the AUC						
CIP-SUPP-001-AB1	Supplemental CIP Alberta Reliability Standard	ISO/MP		Oct 18, 2016 - Nov 25, 2016	Feb 13 2017	The day following Commission approval.
CIP-SUPP-002-AB	Supplemental CIP Alberta Reliability Standard Technical Feasibility Exceptions	ISO/MP		Oct 18, 2016 - Nov 25, 2016	Feb 13 2017	The day following Commission approval.
3. Under Development						
CIP-SUPP-001-AB1	Supplemental CIP Alberta Reliability Standard	ISO/MP		Oct 18, 2016 - Nov 25, 2016	Q1-2017	The day following Commission approval. First day of the calendar month following Commission approval.
CIP-SUPP-002-AB	Supplemental CIP Alberta Reliability Standard Technical Feasibility Exceptions	ISO/MP		Oct 18, 2016 - Nov 25, 2016	Q1-2017	The day following Commission approval. First day of the calendar month following Commission approval.
PRC-001-AB3-1.1 (ii)	System Protection Coordination	MP		Dec 15, 2015 - Jan 26, 2016	Q2 Q4 2017	First day of the calendar quarter following one full calendar quarter after approval by the AUC.
EOP-005-AB-2	System Restoration from Blackstart Resources	ISO/MP		Feb 7 2017 - Mar 7 2017	Q2 2017	First day of the month following three full calendar quarters after Commission approval.
FAC-008-AB-3	Facility Ratings Methodology	MP	ISO Rules 502.15, 304.6 and 502.2	March Q2 2017	Q2 2017	TBD
PRC-025-AB-1	Generator Relay Loadability	MP		Q2 2017	Q3 2017	TBD
PRC-005-AB-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	MP		Q3 2017	TBD	TBD
CIP-014-AB-2	Physical Security	ISO/MP	ISO Rule 501.2	TBD	TBD	TBD
TPL-002-AB	System Performance Following Loss of a Single BES Element	ISO		Q3 Q2-2017	TBD	TBD
4. Development Pending						
COM-001-2	Communications	ISO/MP		TBD	TBD	TBD
COM-002-4	Operating Personnel Communications Protocols	ISO/MP		TBD	TBD	TBD
PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	MP		TBD	TBD	TBD
PER-003-1	Operating Personnel Credentials	ISO/MP		TBD	TBD	TBD
5. First Version to be Adopted in Alberta - FERC Approved					Status	
EOP-010-1	Geomagnetic Disturbance Operations				In effect in US, April 1, 2015; R5 in effect on April 1, 2017	
EOP-011-1	Emergency Operations				In effect in US, April 1, 2017	
FAC-013-2	Assessment of Transfer Capability for the Near-term Transmission Planning Horizon				FERC approved November 11, 2011	
IRO-017-1	Outage Coordination				In effect in US, April 1, 2017	
MOD-001-1a	Available Transmission System Capability				In effect in US, April 4, 2011	
MOD-008-1	Transmission Reliability Margin Calculation Methodology				In effect in US, June 18, 2007	
MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability				In effect in US, July 1, 2016	
MOD-026-1	Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions				FERC approved March 20, 2014	
MOD-027-1	Verification of Models and Data for Turbine/Governor and Load Ctrl				FERC approved March 20, 2014	
MOD-029-2a	Rated System Path Methodology				In effect in US, July 1, 2014	
MOD-031-2	Demand and Energy Data				In effect in US, October 1, 2016	
MOD-032-1	Data for Power System Modeling and Analysis				In effect in US, July 1, 2015	
MOD-033-1	Steady-State and Dynamic System Model Validation				In effect in US, July 1, 2017	
PRC-002-2	Disturbance Control Performance	ISO/MP			In effect in US, July 1 2016	
PRC-006-2	Automatic Underfrequency load shedding	ISO/MP			In effect in US, October 1, 2015	
PRC-015-1	Special Protection System Data and Documentation		704C		In effect in the US, April 1, 2017	

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PRC-016-1	Remedial Action Scheme Misoperations				In effect in the US, April 1, 2017	
PRC-017-1	Remedial Action Scheme Maintenance and Testing				In effect in the US, April 1, 2017	
PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection				In effect in US, July 1 2016	
TOP-001-3	Transmission Operations				In effect in US, April 1, 2017	
TOP-002-4	Operation Planning				In effect in US, April 1, 2017	
TOP-003-3	Operational Reliability Data				In effect in US, January 1, 2017 (all requirements, except R5) R5 in effect April 1, 2017	
TOP-004-2	Transmission Operations				In effect in US, January 1, 2009	
TOP-008-1	Response to Transmission Limit Violations				In effect in US, June 18, 2007	
6. New Versions of Adopted Standards - FERC Approved					Status	
BAL-001-2	Real Power Balancing Control Performance				In effect in US, July 1, 2016	
BAL-002-2	Disturbance Control Standard - Contingency Reserve for Recovery from a Balancing Contingency Event				FERC Approved January 19, 2017 [FERC Order 835]	
BAL-003-1	Frequency Response				In effect in US, April 1, 2015	
BAL-006-2	Inadvertent Interchange				In effect In US, April 1, 2014	
CIP-003-6	Cyber Security - Security Management Controls				In effect in US, April 1, 2017	
CIP-004-6	Cyber Security - Personnel and Training				In effect in US, October 1 2016 (R2.3, 4.3,4.4 in effect July 1, 2017)	
CIP-006-6	Cyber Security - Physical Security of BES Cyber Systems				In effect in US, July 1, 2016 (R3.1 in effect July 1, 2017)	
CIP-007-6	Cyber Security - System Security Management				In effect in US, July 1, 2016	
CIP-009-6	Cyber Security - Recovery Plans for BES Cyber Systems				In effect in US, July 1, 2016 (R2.1 -2.2 in effect July 1, 2017)	
CIP-010-2	Cyber Security - Configuration Change Management and Vulnerability Assessments				In effect in US, August 5, 2016 (all requirements, except R4) R4 in effect April 1, 2017	
CIP-011-2	Cyber Security - Information Protection				In effect in US, July 1, 2016	
EOP-001-2.1b	Emergency Operations Planning				In effect in US, July 1, 2013	
EOP-002-3.1	Capacity and Energy Emergencies				In effect in US, September 13, 2012	
EOP-003-2	Load Shedding Plans				In effect in US, October 1, 2013	
EOP-004-3	Event Reporting				In effect in the US, April 1, 2017	
FAC-001-2	Facility Interconnection Requirements				In effect in US, January 1, 2016	
FAC-002-2	Facility Interconnection Studies				In effect in US, January 1, 2016	
FAC-003-4	Transmission Vegetation Management				In effect in US, October 1, 2016	
FAC-010-3	System Operating Limits Methodology for the Planning Horizon				In effect in the US, April 1, 2017	
FAC-011-3	System Operating Limits Methodology for the Operations Horizon				In effect in the US, April 1, 2017	
INT-006-4	Response to Interchange Authority				FERC Approved, June 30, 2014	
INT-009-2	Implementation of Interchange				FERC Approved, June 30, 2014	
INT-010-2.1	Interchange Initiation of Modification for Reliability				In effect in US, November 26, 2014	
IRO-001-4	Reliability Coordination - Responsibilities				In effect in US, April 1, 2017	
IRO-010-2	Reliability Coordinator Data Specification and Collection				R1, R2, in effect in US, January 1, 2017. R3 in effect April 1, 2017	
IRO-008-2	Reliability Coordinator Operational Analyses and Real-time Assessments				In effect in US, April 1, 2017	
MOD-019-0.1	Reporting of Interruptible Demands and Direct Control Load Management				FERC Approved, May 13, 2009	
PRC-004-5(i)	Protection System Misoperation Identification and Correction				In effect in US, April 2, 2017	
PRC-004-WECC-2	Protection System and Remedial Action Scheme Misoperation				In effect in the US, April 1, 2017	
PRC-010-1	Undervoltage Load Shedding				In effect in US, April 2, 2017	
PRC-023-4	Transmission Relay Loadability				In effect in the US, April 1, 2017	
PRC-026-1	Relay Performance During Stable Power Swings				R1 in effect in US, January 1, 2018. R2 to R4 in effect January 1, 2020	
TPL-001-4	Transmission System Planning Performance Requirements				In effect in the US, January 1, 2015	
TPL-007-1	Transmission System Planned Performance for Geomagnetic Disturbance Events				In effect in the US, July 1, 2017. R2 in effect July 1, 2018. R5 in effect January 1, 2019. R3,	
VAR-002-WECC-2	Automatic Voltage Regulators				In effect in US, April 1, 2015	
VAR-501-WECC-2	Power System Stabilizers				In effect in US, April 1, 2015	
VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules				FERC Approved, May 29, 2015	
7. New Versions of Adopted/New Standards - Filed with FERC					Status	
BAL-002-4a	Disturbance Control Performance				Filed with FERC, February 12, 2013	
BAL-005-1	Balancing Authority Control				Filed with FERC, May 3, 2016	
CIP-003-7	Security Management Controls				Filed with FERC, March 3, 2017	
COM-001-3	Communications				Filed with FERC, August 25, 2016	
FAC-001-3	Facility Interconnection Requirements				Filed with FERC, May 3, 2016	
IRO-005-4	Reliability Coordination – Current-Day Operations				Filed with FERC, April 16, 2013	

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IRO-009-2	Reliability Coordinator Actions to Operate within IROLs				Filed with FERC, September 16, 2015	
IRO-018-1	Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities				Filed with FERC, May 26, 2016	
MOD-001-2	Available Transmission System Capability				Filed with FERC, February 10, 2014	
PER-006-1	Specific Training for Personnel				Filed with FERC, September 2, 2016	
PRC-001-2	System Protection Coordination				Filed with FERC, April 16, 2013	
PRC-012-2	Remedial Action Schemes				Filed with FERC, August 5, 2016	
PRC-023-4	Transmission Relay Loadability				Filed with FERC, February 3, 2015	
PRC-027-1	Coordination of Protection Systems for Performance During Faults				Filed with FERC, September 2, 2016	
TOP-006-3	Monitoring System Conditions				Filed with FERC April 4, 2013	
TOP-007-WECC-1a	System Operating Limits				Filed with FERC March 23, 2016 - Recommend Retirement of Standard	
TOP-010-1	Real-time Reliability Monitoring and Analysis Capabilities				Filed with FERC, May 26, 2016	
8. New Versions of Adopted/New Standards - NERC BOT Approved					Status	
PRC-005-5	Protection System, Automatic Reclosing and Sudden Pressure Relaying Maintenance				NERC BOT approved May 7, 2015	
9. Projects to be Confirmed N/A in Alberta - FERC Approved					Status	
IRO-002-4	Reliability Coordination - Monitoring and Analysis				In effect in US, April 1, 2017	
IRO-014-3	Coordination Among Reliability Coordinators				In effect in US, April 1, 2017	
MOD-030-3	Flowgate Methodology				In effect in US, April 1, 2017	

Changes from the last posting are in **red** text.

Footnote 1 - For new standards, the applicability represents the entities the standard applies to; for amendments to existing standards, applicability identifies the entities that the amendments apply to.

Footnote 2 - The effective date is not firm and the actual date is dependent upon approval by the Commission.

Footnote 3 - The AESO reviewed the standard and came to the conclusion that the proposed changes do not directly affect market participants. Therefore, consultation with market participants to address the foregoing is not required.

The Alberta Reliability Standards Project Work Plan (the "Work Plan") is for general information purposes only and the Alberta Electric System Operator reserves the right to change or modify the Work Plan at any time without notice. Under no circumstances will the Alberta Electric System Operator, its members, officers, employees, contractors or agents, or any of their respective affiliates, be liable for any errors or omissions in, or any losses, damages or claims whatsoever, whether in contract, tort or otherwise, arising from use of or reliance upon, the Work Plan or any information contained herein. Parties using or relying on the Work Plan do so solely at their own risk, and all information contained herein should be independently verified.