

Alberta Reliability Standards Project Work Plan
Update: Dec. 15, 2009

NERC and WECC Standards	Title	NERC Project #	Work group assigned	Standard Not Applicable in Alberta (N/A)	Work Group Assessment / ARS Drafting	Stakeholder Consultation	File with AUC	AUC Approval	Effective Date
Projects Filed with the AUC									
INT-003-2	Interchange Transaction Implementation	2010-03	AI					Y	Jan-09
TOP-005-1	Operational Reliability Information	2007-03 and 2009-02	OWG					Y	May-09
FAC-003-1	Vegetation Management Program	2007-07	TWG					Y	Mar-09
BAL-001-0a	Real Power Balancing Control Performance	2007-18	AI					Y	Sep-09
BAL-003-0a	Frequency Response and Bias	2007-18	AI					Y	Feb-09
BAL-006-1	Inadvertent Interchange	2007-05	AI					Y	Feb-09
IRO-002-1	Reliability Coordination – Facilities	2006-06 and 2009-02	OWG	N/A				Y	N/A
IRO-003-2	Reliability Coordination – Wide-Area View	2009-02	OWG	N/A				Y	N/A
IRO-014-1	Procedures, Processes, or Plans to Support Coordination Between	2006-06	OWG	N/A				Y	N/A
IRO-015-1	Notifications and Information Exchange Between Reliability	2006-06	OWG	N/A				Y	N/A
IRO-016-1	Coordination of Real-time Activities Between Reliability Coordinators	2006-06	OWG	N/A				Y	N/A
EOP-003-1	Load Shedding Plans	2008-08 and 2009-02 and 2009-03	OWG					Y	Jun-09
EOP-004-1	Disturbance Reporting	2008-08 and 2009-01	OWG					Y	Jun-09
INT-001-3	Interchange Information	2010-03	AI					Y	Oct-09
INT-004-2	Dynamic Interchange Transaction Modifications	2010-03	AI	N/A				Y	N/A
INT-005-3	Interchange Authority Distributes Arranged Interchange		AI	N/A				Y	N/A
INT-006-2	Response to Interchange Authority	2007-14 and 2010-03	AI					Y	Oct-09
INT-007-1	Interchange Confirmation	2010-03	AI	N/A				Y	N/A
INT-008-3	Interchange Authority Distributes Status		AI	N/A				Y	N/A
INT-009-1	Implementation of Interchange	2010-03	AI					Y	Oct-09
INT-010-1	Interchange Coordination Exemptions	2010-03	AI					Y	Oct-09
MOD-006-0	Procedures for the Use of Capacity Benefit Margin Values	2006-07	AI	N/A				Y	N/A
MOD-007-0	Documentation of the Use of Capacity Benefit Margin	2006-07	AI	N/A				Y	N/A
MOD-020-0	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	2010-05	AI	N/A				Y	N/A
MOD-021-0	Documentation of the Accounting Methodology for the Effects of Controllable Demand-Side Management in Demand and Energy Forecasts.	2010-05	AI	N/A				Y	N/A
EOP-002-2	Capacity and Energy Emergencies	2007-18 and 2008-08 and 2009-03	OWG					Y	Oct-09
EOP-006-1	Reliability Coordination - System Restoration	2006-03 and 2008-08	OWG	N/A				Y	N/A
EOP-007-0	Establish, Maintain, and Document a Regional Blackstart Capability Plan	2006-03	OWG	N/A				Y	N/A
MOD-013-1	Maintenance and Distribution of Dynamics Data Requirements and Reporting Procedures	2010-04	OWG	N/A				Y	N/A
MOD-014-0	Development of Steady-State System Models	2010-04	OWG	N/A				Y	N/A
MOD-015-0	Development of Dynamics System Models	2010-04	OWG	N/A				Y	N/A
PER-004-2	Reliability Coordination – Staffing	2006-01	OWG	N/A				Y	N/A
PRC-003-1	Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems	2010-06	OWG	N/A				Y	N/A
PRC-006-0	Development and Documentation of Regional Reliability Organizations' Underfrequency Load Shedding Programs	2007-01	OWG	N/A				Y	N/A
PRC-009-0	Analysis and Documentation of Underfrequency Load Shedding	2007-01	OWG					Y	Oct-09

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PRC-010-0	Technical Assessment of the Design and Effectiveness of Undervoltage Load	2008-02	OWG					Y	Oct-09
PRC-012-0	Special Protection System Review Procedure	2010-06	OWG	N/A				Y	N/A
PRC-013-0	Special Protection System Database	2010-04	OWG	N/A				Y	N/A
PRC-014-0	Special Protection System Assessment	2010-06	OWG	N/A				Y	N/A
PRC-020-1	Under-Voltage Load Shedding Program Database	2010-04	OWG	N/A				Y	N/A
PRC-021-1	Under-Voltage Load Shedding Program Data	2010-04	OWG					Y	Sep-09
PRC-022-1	Under-Voltage Load Shedding Program Performance	2008-02	OWG					Y	Oct-09
FAC-002-0	Coordination of Plans For New Generation, Transmission, and End-User	2010-02	TPWG					Y	Mar-10
TPL-001-0	System Performance Under Normal (No Contingency) Conditions	2006-02	TPWG					Y	Sep-10
TPL-002-0	System Performance Following Loss of a Single Bulk Electric System Element (Category B)	2006-02	TPWG					Y	Sep-10
TPL-003-0	System Performance Following Loss of Two or More Bulk Electric System Elements (Category C)	2006-02	TPWG					Y	Sep-10
TPL-004-0	System Performance Following Extreme Events Resulting in the Loss of Two or More Bulk Electric System Elements (Category D)	2006-02	TPWG					Y	Sep-10
TPL-005-0	Regional and Interregional Self-Assessment Reliability Reports	2006-02	TPWG	N/A				Y	N/A
TPL-006-0	Data From the Regional Reliability Organization Needed to Assess	2006-02	TPWG	N/A				Y	N/A
FAC-501-WECC-1	Transmission Maintenance (former PRC std)	#N/A	TWG					Y	Sep-10
PRC-002-1	Define Regional Disturbance Monitoring and Reporting	2007-11	TWG	N/A				Y	N/A
FAC-001-0	Facility Connection Requirements	2010-02	TWG/TPWG					Y	Sep-10
MOD-002-0	Review of Transmission Service Provider Total Transfer Capability and Available Transfer Capability Calculations and Results	2006-07	AI	N/A		Sep 9- Oct 9	Nov-09		N/A
MOD-003-0	Regional Procedure for Input on Total Transfer Capability and	2006-07	AI	N/A		Sep 9- Oct 9	Nov-09		N/A
MOD-004-0	Documentation of Regional Reliability Organization Capacity Benefit Margin Methodologies	2006-07	AI	N/A		Sep 9- Oct 9	Nov-09		N/A
MOD-005-0	Procedure for Verifying Capacity Benefit Margin Values	2006-07	AI	N/A		Sep 9- Oct 9	Nov-09		N/A
MOD-009-0	Procedure for Verifying Transmission Reliability Margin Values	2006-07	AI	N/A		Sep 9- Oct 9	Nov-09		N/A
MOD-016-1.1	Documentation of Data Reporting Requirements for Actual and Forecast Demands, Net Energy for Load, and Controllable Demand-Side Management	2010-05	AI			Sep 9- Oct 9	Dec-09		
MOD-017-0.1	Aggregated Actual and Forecast Demands and Net Energy for Load	2010-05	AI			Sep 9- Oct 9	Dec-09		
MOD-018-0	Treatment of Nonmember Demand Data and How Uncertainties are Addressed in the Forecasts of Demand and Net Energy for Load	2010-05	AI			Sep 9- Oct 9	Dec-09		
MOD-019-0	Reporting of Interruptible Demands and Direct Control Load Management	2010-05	AI			Sep 9- Oct 9	Dec-09		
EOP-001-0	Emergency Operations Planning	2008-08 and 2009-03	OWG			Sep 9- Oct 9	Filing On Hold		
IRO-006-4	Reliability Coordination – Transmission Loading Relief	2006-08	OWG	N/A		Aug 13- Aug 28	Nov-09		N/A
IRO-006-WECC-1	Qualified Transfer Path Unscheduled Flow Relief	#N/A	OWG			Aug 13- Sep 14	Dec-09		
NUC-001-1	Nuclear Plant Interface Coordination		OWG	N/A		Aug 13- Aug 28	Nov-09		N/A

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TOP-007-WECC-1	System Operating Limits	#N/A	OWG			Sep 9- Oct 9	Dec-09		
CIP-001-1	Sabotage Reporting	2009-01	SWG			Sep 9- Oct 9	Dec-09		
PRC-001-1	System Protection Coordination	2007-06 and 2009-02	TWG/OWG			Aug 13- Sep 14	Dec-09		
PRC-004-1	Analysis and Mitigation of Transmission and Generation Protection System Misoperations	2010-06	TWG/OWG			Aug 13- Sep 14	Dec-09		
PRC-004-WECC-1	Protection System and Remedial Action Scheme Misoperation	#N/A	TWG/OWG			Aug 13- Sep 14	Dec-09		
2010 Projects									
BAL-004-1	Time Error Correction	2007-05	AI	N/A	In progress	Q1-2010	Q2-2010		N/A
BAL-004-WECC-1	Automatic Time Error Correction		AI		In progress	Q1-2010	Q2-2010		
MOD-008-0	Documentation and Content of Each Regional Transmission Reliability Margin Methodology	2006-07	AI	N/A	In progress	Q1-2010	Q2-2010		N/A
EOP-005-2	System Restoration Plans	2006-03 and 2008-08 and 2009-02	OWG		In progress	Q1-2010	Q2-2010		
EOP-008-0	Plans for Loss of Control Center Functionality	2006-04 and 2008-08	OWG		In progress	Q1-2010	Q2-2010		
IRO-001-1	Reliability Coordination – Responsibilities and Authorities	2006-06 and 2009-03	OWG		In progress	Q1-2010	Q2-2010		
VAR-001-1a	Voltage and Reactive Control	2008-01 and 2009-02	OWG		In progress	Q1-2010	Q2-2010		
VAR-002-1.1b	Generator Operation for Maintaining Network Voltage Schedules	2008-01	OWG		In progress	Q1-2010	Q2-2010		
VAR-002-WECC-1	Automatic Voltage Regulators	#N/A	OWG		In progress	Q1-2010	Q2-2010		
VAR-501-WECC-1	Power System Stabilizer	#N/A	OWG		In progress	Q1-2010	Q2-2010		
PRC-005-1	Transmission and Generation Protection System Maintenance and Testing	2007-17	TWG			Sept. 2009	Q2-2010		
PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing	2007-17	TWG		In progress	Q1-2010	Q2-2010		
PRC-015-0	Special Protection System Data and Documentation	2010-04	OWG		In progress	Q1-2010	Q2-2010		
PRC-016-0	Special Protection System Misoperations	2010-06	OWG		In progress	Q1-2010	Q2-2010		
PRC-017-0	Special Protection System Maintenance and Testing	2007-17	TWG		In progress	Q1-2010	Q2-2010		
PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	2007-11	TWG		In progress	Q1-2010	Q2-2010		
PRC-023-1	Transmission Relay Loadability		TWG		In progress	Q1-2010	Q2-2010		
BAL-002-0	Disturbance Control Performance	2007-05 and 2009-02	AI		Complete	Complete	Q3-2010		
BAL-002-WECC-1	Contingency Reserve	#N/A	AI		Complete	Complete	Q3-2010		
MOD-001-1	Available Transmission System Capability	2006-07	OWG		Oct-09	Q2-2010	Q3-2010		
MOD-010-0	Steady-State Data for Modeling and Simulation of the Interconnected Transmission System	2010-04	OWG		Oct-09	Q2-2010	Q3-2010		
MOD-011-0	Maintenance and Distribution of Steady-State Data Requirements and Reporting Procedures	2010-04	OWG		Oct-09	Q2-2010	Q3-2010		
MOD-012-0	Dynamics Data for Modeling and Simulation of the Interconnected Transmission System	2010-04	OWG		Oct-09	Q2-2010	Q3-2010		
MOD-024-1	Verification of Generator Gross and Net Real Power Capability	2007-09	OWG		Oct-09	Q2-2010	Q3-2010		
MOD-025-1	Verification of Generator Gross and Net Reactive Power Capability	2007-09	OWG		Oct-09	Q2-2010	Q3-2010		
MOD-028-1	Area Interchange Methodology		OWG	N/A	Oct-09	Q2-2010	Q3-2010		
MOD-029-1	Rated System Path Methodology		OWG		Oct-09	Q2-2010	Q3-2010		
MOD-030-1	Flowgate Methodology		OWG	N/A	Oct-09	Q2-2010	Q3-2010		

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CIP-002-2	Cyber Security — Critical Cyber Asset Identification	2008-06	SWG		Jan-10	Q3-2010	Q4-2010		
CIP-003-2	Cyber Security — Security Management Controls	2008-06	SWG		Jan-10	Q3-2010	Q4-2010		
COM-001-1	Telecommunications	2006-06 and 2009-02	OWG		Q1-2010	Q3-2010	Q4-2010		
COM-002-2	Communications and Coordination	2006-06 and 2007-02	OWG		Q1-2010	Q3-2010	Q4-2010		
FAC-010-1	System Operating Limits Methodology for the Planning Horizon	2008-04	TPWG		Q1-2010	Q3-2010	Q4-2010		
FAC-011-1	System Operating Limits Methodology for the Operations Horizon	2008-04	OWG		Q1-2010	Q3-2010	Q4-2010		
FAC-012-1	Transfer Capability Methodology	2006-07	OWG		Q1-2010	Q3-2010	Q4-2010		
FAC-013-1	Establish and Communicate Transfer Capabilities	2006-07	TPWG/OWG		Q1-2010	Q3-2010	Q4-2010		
IRO-004-1	Reliability Coordination - Operations Planning	2009-02	OWG		Q1-2010	Q3-2010	Q4-2010		
IRO-005-3	Reliability Coordination – Current-Day Operations	2006-06 and 2007-18 and 2009-02	OWG		Q1-2010	Q3-2010	Q4-2010		
IRO-006-4	Reliability Coordination – Transmission Loading Relief	2006-08	OWG		Q1-2010	Q3-2010	Q4-2010		
CIP-004-2	Cyber Security — Personnel & Training	2008-06	SWG		Q1 - 2010	Q3-2010	Q4-2010		
CIP-005-2	Cyber Security — Electronic Security Perimeter(s)	2008-06	SWG		Q1 - 2010	Q3-2010	Q4-2010		
CIP-006-2	Cyber Security — Physical Security of Critical Cyber Assets	2008-06	SWG		Q1 - 2010	Q3-2010	Q4-2010		
CIP-007-2	Cyber Security — Systems Security Management	2008-06	SWG		Q2 - 2010	Q3-2010	Q4-2010		
CIP-008-2	Cyber Security — Incident Reporting and Response Planning	2008-06	SWG		Q2 - 2010	Q3-2010	Q4-2010		
CIP-009-2	Cyber Security — Recovery Plans for Critical Cyber Assets	2008-06	SWG		Q2 - 2010	Q3-2010	Q4-2010		
BAL-005-0.1b	Automatic Generation Control	2007-05 and 2009-02	OWG		Q1 - 2010	Q3-2010	Q4-2010		
PER-003-0	Operating Personnel Credentials	2007-04	OWG		Q1 - 2010	Q3-2010	Q4-2010		
PER-005-1	System Personnel Training		OWG		Q1 - 2010	Q3-2010	Q4-2010		
PRC-007-0	Assuring Consistency of Entity Underfrequency Load Shedding Programs with Regional Reliability Organization's Underfrequency Load Shedding Program Requirements	2007-01	OWG		Q1 - 2010	Q3-2010	Q4-2010		
PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program	2007-17	OWG		Q1 - 2010	Q3-2010	Q4-2010		
FAC-014-2	Establish and Communicate System Operating Limits	2008-04	OWG		Q1 - 2010	Q3-2010	Q4-2010		
2011 Projects									
TOP-001-1	Reliability Responsibilities and Authorities	2007-03 and 2009-02	OWG		2011				
TOP-002-2a	Normal Operations Planning	2007-03 and 2009-02	OWG		2011				
TOP-003-0	Planned Outage Coordination	2007-03 and 2009-02	OWG		2011				
TOP-004-2	Transmission Operations	2007-03 and 2009-02	OWG		2011				
TOP-006-1	Monitoring System Conditions	2007-03 and 2009-02	OWG		2011				
TOP-007-0	Reporting System Operating Limit (SOL) and Interconnection Reliability Operating Limit (IROL) Violations	2007-03	OWG		2011				
TOP-008-1	Response to Transmission Limit Violations	2007-03	OWG		2011				
PER-001-0	Operating Personnel Responsibility and Authority	2007-03	OWG		2011				
FAC-008-1	Facility Ratings Methodology	2006-09	OWG		2011				
MOD-008-1	Transmission Reliability Margin Calculation Methodology	2006-07	OWG		2011				
IRO-006-5	Reliability Coordination - Transmission Loading Relief	2006-08	OWG		2011				
To be Retired									
EOP-009-0	Documentation of Blackstart Generating Unit Test Results	2006-03 and 2008-08	OWG						

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FAC-009-1	Establish and Communicate Facility Ratings	2006-09	TWG						