

## MATL NERC Reliability Standards and AESO Alberta Reliability Standards (ARS) Master List

Last Update:

1/27/2020

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
<b>RESOURCE and DEMAND BALANCING (BAL)</b>						
<del>BAL-005-AB3-0.7b</del>	<del>Automatic Generation Control</del>	<del>AESO</del>	<del>Legal Owner of a Transmission Facility</del>	<del>6/12/2017</del>	<del>7/1/2019</del>	<del>X</del>
<b>CRITICAL INFRASTRUCTURE PROTECTION (CIP)</b>						
CIP-SUPP-001-AB1	Cyber Security - Supplemental	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	3/21/2017	N/A	
CIP-SUPP-002-AB	Cyber Security - Technical Feasibility Exceptions	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	3/21/2017	N/A	
CIP-002-AB-5.1	Cyber Security - BES Cyber System Categorization	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-003-AB-5	Cyber Security - Security Management Controls	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-004-AB-5.1	Cyber Security - Personnel and Training	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-005-AB-5	Cyber Security - Electronic Security Perimeter(s)	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-006-AB-5	Cyber Security - Physical Security of BES Cyber Systems	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-007-AB-5	Cyber Security - System Security Management	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-008-AB-5	Cyber Security - Incident Reporting and Response	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-009-AB-5	Cyber Security - Recovery Plans for BES Cyber Systems	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-010-AB-1	Cyber Security - Configuration Change Management and Vulnerability Assessments	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-011-AB-1	Cyber Security - Information Protection	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	10/1/2017	N/A	
CIP-014-AB-2	Physical Security	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	7/1/2020	N/A	
CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	WECC	TO, TOP	12/27/2016	N/A	
<del>CIP-003-6</del>	<del>Cyber Security — Security Management Controls</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>7/1/2016</del>	<del>12/31/2019</del>	<del>X</del>
CIP-003-7	Cyber Security — Security Management Controls	WECC	TO, TOP	1/1/2020	3/31/2020	X
<del>CIP-003-8</del>	<del>Cyber Security — Security Management Controls</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>4/1/2020</del>	<del>N/A</del>	<del>X</del>
CIP-004-6	Cyber Security — Personnel & Training	WECC	TO, TOP	7/1/2016	N/A	
CIP-005-5	Cyber Security — Electronic Security Perimeter(s)	WECC	TO, TOP	7/1/2016	6/30/2020	
CIP-005-6	Cyber Security — Electronic Security Perimeter(s)	WECC	TO, TOP	7/1/2020	N/A	
CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	WECC	TO, TOP	7/1/2016	N/A	
CIP-007-6	Cyber Security — System Security Management	WECC	TO, TOP	7/1/2016	N/A	
CIP-008-5	Cyber Security — Incident Reporting and Response Planning	WECC	TO, TOP	7/1/2016	12/31/2020	X
<del>CIP-008-6</del>	<del>Cyber Security — Incident Reporting and Response Planning</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>1/1/2021</del>	<del>N/A</del>	<del>X</del>
CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems	WECC	TO, TOP	7/1/2016	N/A	
CIP-010-2	Cyber Security — Configuration Change Management and Vulnerability Assessments	WECC	TO, TOP	7/1/2016	6/30/2020	
CIP-010-3	Cyber Security — Configuration Change Management and Vulnerability Assessments	WECC	TO, TOP	7/1/2020	N/A	
CIP-011-2	Cyber Security — Information Protection	WECC	TO, TOP	7/1/2016	N/A	
CIP-013-1	Cyber Security — Supply Chain Risk Management	WECC	TO, TOP	7/1/2020	N/A	

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
CIP-014-2	Physical Security	WECC	TO, TOP	10/2/2015	N/A	
COM-001-AB1-1.1	Telecommunications	AESO	Operator of a Transmission Facility	5/1/2015	N/A	
COM-001-3	Communications	WECC	TOP	10/1/2017	N/A	
COM-002-AB1-2a	Communications and Coordination	AESO	Operator of a Transmission Facility	1/1/2014	N/A	
COM-002-4	Operating Personnel Communications Protocols	WECC	TOP	7/1/2016	N/A	
<b>EMERGENCY PREPAREDNESS AND OPERATIONS (EOP)</b>						
EOP-001-AB1-2.1b	Emergency Operations Planning	AESO	Operator of a Transmission Facility	5/1/2015	N/A	
EOP-003-AB1-1	Load Shedding Plans	AESO	Operator of a Transmission Facility	MATL COD	N/A	
<del>EOP-004-3</del>	<del>Event Reporting</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>4/1/2017</del>	<del>3/31/2019</del>	<del>X</del>
EOP-004-4	Event Reporting	WECC	TO, TOP	4/1/2019	N/A	
EOP-005-AB-2	System Restoration from Blackstart Resources	AESO	Operator of a Transmission Facility	12/1/2019	N/A	X
<del>EOP-005-2</del>	<del>System Restoration from Blackstart Resources</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>MATL COD</del>	<del>3/31/2019</del>	<del>X</del>
EOP-005-3	System Restoration from Blackstart Resources	WECC	TO, TOP	4/1/2019	N/A	
EOP-008-AB-1	Loss of Control Centre Functionality	AESO	Operator of a Transmission Facility	7/1/2019	N/A	
<del>EOP-008-1</del>	<del>Loss of Control Centre Functionality</del>	<del>WECC</del>	<del>TOP</del>	<del>MATL COD</del>	<del>3/31/2019</del>	<del>X</del>
EOP-008-2	Loss of Control Centre Functionality	WECC	TOP	4/1/2019	N/A	
EOP-010-1	Geomagnetic Disturbance Operations	WECC	TOP	4/1/2015	N/A	
EOP-011-1	Emergency Operations	WECC	TOP	4/1/2017	N/A	
<b>FACILITIES DESIGN, CONNECTIONS, and MAINTENANCE (FAC)</b>						
FAC-001-3	Facility Interconnection Requirements	WECC	TO	1/1/2019	N/A	
FAC-002-2	Facility Interconnection Studies	WECC	TO, TP	1/1/2016	N/A	
FAC-003-AB1-1	Transmission Vegetation Management Program	AESO	Legal Owner of a Transmission Facility	MATL COD	N/A	
FAC-003-4	Transmission Vegetation Management	WECC	TO	10/1/2016	N/A	
FAC-008-AB-3	Facility Ratings	AESO	Legal Owner of a Transmission Facility	12/1/2019	N/A	X
FAC-008-3	Facility Ratings	WECC	TO	MATL COD	N/A	
<del>FAC-013-2</del>	<del>Assessment of Transfer Capability for the Near Term Transmission Planning Horizon</del>	<del>WECC</del>	<del>TP</del>	<del>MATL COD</del>	<del>N/A</del>	<del>X</del>
FAC-014-2	Establish and Communicate System Operating Limits	WECC	TP, TOP	MATL COD	N/A	
FAC-501-WECC-AB2-1	Transmission Maintenance	AESO	Legal Owner of a Transmission Facility	7/1/2015	N/A	
FAC-501-WECC-2	Transmission Maintenance	WECC	TO	7/1/2018	N/A	
<b>INTERCHANGE SCHEDULING and COORDINATION (INT)</b>						
INT-006-4	Evaluation of Interchange Transactions	WECC	TSP	10/1/2014	N/A	
<b>INTERCONNECTION RELIABILITY OPERATIONS AND COORDINATION (IRO)</b>						
IRO-001-4	Reliability Coordination — Responsibilities	WECC	TOP	4/1/2017	N/A	
IRO-010-2	Reliability Coordinator Data Specification and Collection	WECC	TO, TOP	1/1/2017	N/A	
IRO-017-1	Outage Coordination	WECC	TP, TOP	4/1/2017	N/A	
<b>MODELING, DATA AND ANALYSIS (MOD)</b>						
MOD-001-1a	Available Transmission System Capability	WECC	TSP, TOP	MATL COD	N/A	
MOD-004-1	Capacity Benefit Margin	WECC	TP, TSP	MATL COD	N/A	
MOD-008-1	Transmission Reliability Margin Calculation Methodology	WECC	TOP	MATL COD	N/A	
MOD-010&012-AB-0	Steady-State and Dynamic Data for Transmission System Modeling and Simulation	AESO	Legal Owner of a Transmission Facility	1/1/2014	N/A	
MOD-020-0	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	WECC	TP	MATL COD	N/A	
MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	WECC	TO	7/1/2016	N/A	
MOD-026-1	Verification of Models and Data for Generator Excitation Control System or Plant Volt/VAR Control Functions	WECC	TP	7/1/2014	N/A	
MOD-027-1	Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions	WECC	TP	7/1/2014	N/A	
MOD-029-2a	Rated System Path Methodology	WECC	TOP, TSP	4/1/2017	N/A	

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
MOD-031-2	Demand and Energy Data	WECC	TP	10/1/2016	N/A	
MOD-032-1	Data for Power System Modeling and Analysis	WECC	TO, TP, TSP	7/1/2015	N/A	
MOD-033-1	Steady-State and Dynamic System Model Validation	WECC	TOP	7/1/2017	N/A	
<b>PERSONNEL PERFORMANCE, TRAINING, and QUALIFICATIONS (PER)</b>						
PER-003-AB-1	Operations Personnel Credentials	AESO	Operator of a Transmission Facility	12/1/2019	N/A	X
PER-003-1	Operating Personnel Credentials	WECC	TOP	MATL COD	6/30/2019	X
PER-003-2	Operating Personnel Credentials	WECC	TOP	7/1/2019	N/A	X
PER-005-AB-2	Operations Personnel Training	AESO	Operator of a Transmission Facility	12/1/2019	N/A	X
PER-005-2	System Personnel Training	WECC	TO, TOP	7/1/2016	N/A	
<b>PROTECTION AND CONTROL (PRC)</b>						
PRC-001-AB3-1.1(ii)	Protection System Coordination	AESO	Legal Owner of a Transmission Facility and Operator of a Transmission Facility	10/1/2017	N/A	
PRC-001-1.1(ii)	System Protection Coordination	WECC	TOP	5/29/2015	N/A	
PRC-002-AB-2	Disturbance Monitoring and Reporting Requirements	AESO	Legal Owner of a Transmission Facility	10/1/2019	N/A	X
PRC-002-2	Disturbance Monitoring and Reporting Requirements	WECC	TO	7/1/2016	N/A	
PRC-004-AB2-1	Analysis and Mitigation of Transmission and Generation Protection System Misoperation	AESO	Legal Owner of a Transmission Facility	4/1/2019	N/A	X
PRC-004-5(i)	Protection System Misoperation Identification and Correction	WECC	TO	4/2/2017	N/A	
PRC-004-WECC-AB1-1	Protection System and RAS Misoperation	AESO	Legal Owner of a Transmission Facility and Operator of a Transmission Facility	8/30/2016	N/A	
PRC-004-WECC-2	Protection System and RAS Misoperation	WECC	TO, TOP	4/1/2017	N/A	
PRC-005-AB1-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	AESO	Legal Owner of a Transmission Facility	10/1/2019	N/A	X
PRC-005-1.1b	Transmission and Generation Protection System Maintenance and Testing	WECC	TO	11/25/2013	3/31/2027	X
PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	WECC	TO	1/1/2016	N/A	
PRC-006-3	Automatic Underfrequency Load Shedding	WECC	TO	10/1/2017	N/A	
PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program	WECC	TO	MATL COD	3/31/2027	
PRC-010-2	Undervoltage Load Shedding	WECC	TO, TP	4/2/2017	N/A	
PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing	WECC	TO	MATL COD	3/31/2027	
PRC-012-2	Remedial Action Schemes	WECC	TO	1/1/2021	N/A	
PRC-015-1	Remedial Action Scheme Data and Documentation	WECC	TO	4/1/2017	12/31/2020	
PRC-016-1	Remedial Action Scheme Misoperations	WECC	TO	4/1/2017	12/31/2020	
PRC-017-1	Remedial Action Scheme Maintenance and Testing	WECC	TO	4/1/2017	3/31/2027	
PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	WECC	TO	MATL COD	6/30/2022	
PRC-018-AB-1	Disturbance Monitoring Equipment Installation and Data Reporting	AESO	Legal Owner of a Transmission Facility	MATL COD	9/30/2025	X
PRC-019-AB-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	AESO	Legal Owner of a Transmission Facility	1/1/2022	N/A	
PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	WECC	TO	7/1/2016	N/A	
PRC-021-AB1-1	Undervoltage Load Shedding Program Data	AESO	Legal Owner of a Transmission Facility	MATL COD	N/A	
PRC-023-AB-2	Transmission Relay Loadability	AESO	Legal Owner of a Transmission Facility	R6: 2014-04-01 R1-R5: 2015-04-01	6/30/2020	X
PRC-023-AB-4	Transmission Relay Loadability	AESO	Legal Owner of a Transmission Facility	7/1/2020	N/A	X
PRC-023-4	Transmission Relay Loadability	WECC	TO	4/1/2017	N/A	
PRC-025-AB-2	Generator Load Reliability	AESO	Legal Owner of a Transmission Facility	10/1/2024	N/A	X
PRC-025-2	Generator Relay Loadability	WECC	TO	7/1/2018	N/A	
PRC-026-1	Relay Performance During Stable Power Swings	WECC	TO	1/1/2018	N/A	
PRC-027-1	Coordination of Protection Systems for Performance During Faults	WECC	TO	10/1/2020	N/A	

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
<b>TRANSMISSION OPERATIONS (TOP)</b>						
TOP-001-4	Transmission Operations	WECC	TOP	7/1/2018	N/A	
TOP-002-4	Operations Planning	WECC	TOP	4/1/2017	N/A	
TOP-003-3	Operational Reliability Data	WECC	TO, TOP	1/1/2017	N/A	
TOP-010-1(i)	Real-time Reliability Monitoring and Analysis Capabilities	WECC	TOP	4/1/2018	N/A	
<b>TRANSMISSION PLANNING (TP)</b>						
TPL-001-4	Transmission System Planning Performance Requirements	WECC	TP	1/1/2015	N/A	
<del>TPL-007-1</del>	<del>Transmission System Planned Performance for Geomagnetic Disturbance Events</del>	<del>WECC</del>	<del>TO, TP</del>	<del>7/1/2017</del>	<del>6/30/2019</del>	<del>X</del>
TPL-007-3	Transmission System Planned Performance for Geomagnetic Disturbance Events	WECC	TO, TP	7/1/2019	N/A	X
<b>VOLTAGE and REACTIVE CONTROL (VAR)</b>						
VAR-001-5	Voltage and Reactive Control	WECC	TOP	1/1/2019	N/A	
VAR-002-WECC-AB-1	Automatic Voltage Regulators and Voltage Regulating Systems	AESO	Operator of a Transmission Facility	MATL COD	N/A	

# MATL NERC Reliability Standards and AESO Alberta Reliability Standards (ARS) Master List

Last Update:

2021-01-29

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
<b>CRITICAL INFRASTRUCTURE PROTECTION (CIP)</b>						
CIP-SUPP-001-AB1	Cyber Security - Supplemental	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-03-21	N/A	
CIP-SUPP-002-AB	Cyber Security - Technical Feasibility Exceptions	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-03-21	N/A	
CIP-002-AB-5.1	Cyber Security - BES Cyber System Categorization	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-003-AB-5	Cyber Security - Security Management Controls	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-004-AB-5.1	Cyber Security - Personnel and Training	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-005-AB-5	Cyber Security - Electronic Security Perimeter(s)	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-006-AB-5	Cyber Security - Physical Security of BES Cyber Systems	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-007-AB-5	Cyber Security - System Security Management	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-008-AB-5	Cyber Security - Incident Reporting and Response	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-009-AB-5	Cyber Security - Recovery Plans for BES Cyber Systems	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-010-AB-1	Cyber Security - Configuration Change Management and Vulnerability Assessments	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-011-AB-1	Cyber Security - Information Protection	AESO	Operator of a Transmission Facility and Owner of a Transmission Facility	2017-10-01	N/A	
CIP-014-AB-2	Physical Security	AESO	TO, TOP	2020-07-01	N/A	
CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	WECC	TO, TOP	2016-12-27	N/A	
<del>CIP-003-7</del>	<del>Cyber Security — Security Management Controls</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>2020-01-01</del>	<del>2020-03-31</del>	X
CIP-003-8	Cyber Security — Security Management Controls	WECC	TO, TOP	2020-04-01	N/A	
CIP-004-6	Cyber Security — Personnel & Training	WECC	TO, TOP	2016-07-01	N/A	
<del>CIP-005-5</del>	<del>Cyber Security — Electronic Security Perimeter(s)</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>2016-07-01</del>	<del>2020-06-30</del>	X
CIP-005-6	Cyber Security — Electronic Security Perimeter(s)	WECC	TO, TOP	2020-07-01	N/A	
CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	WECC	TO, TOP	2016-07-01	N/A	
CIP-007-6	Cyber Security — System Security Management	WECC	TO, TOP	2016-07-01	N/A	
<del>CIP-008-5</del>	<del>Cyber Security — Incident Reporting and Response Planning</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>2016-07-01</del>	<del>2020-12-31</del>	X
CIP-008-6	Cyber Security — Incident Reporting and Response Planning	WECC	TO, TOP	2021-01-01	N/A	
CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems	WECC	TO, TOP	2016-07-01	N/A	
<del>CIP-010-2</del>	<del>Cyber Security — Configuration Change Management and Vulnerability Assessments</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>2016-07-01</del>	<del>2020-06-30</del>	X
CIP-010-3	Cyber Security — Configuration Change Management and Vulnerability Assessments	WECC	TO, TOP	2020-07-01	N/A	
CIP-011-2	Cyber Security — Information Protection	WECC	TO, TOP	2016-07-01	N/A	
<del>CIP-012-1</del>	<del>Cyber Security — Communications Between Control Centers</del>	<del>WECC</del>	<del>TO, TOP</del>	<del>2022-07-01</del>	<del>N/A</del>	X
CIP-013-1	Cyber Security — Supply Chain Risk Management	WECC	TO, TOP	2020-07-01	N/A	
CIP-014-2	Physical Security	WECC	TO, TOP	2015-10-02	N/A	
<b>EMERGENCY PREPAREDNESS AND OPERATIONS (EOP)</b>						
COM-001-AB1-1.1	Telecommunications	AESO	Operator of a Transmission Facility	2015-05-01	N/A	
COM-001-3	Communications	WECC	TOP	2017-10-01	N/A	
COM-002-AB1-2a	Communications and Coordination	AESO	Operator of a Transmission Facility	2014-01-01	N/A	
COM-002-4	Operating Personnel Communications Protocols	WECC	TOP	2016-07-01	N/A	
EOP-001-AB1-2.1b	Emergency Operations Planning	AESO	Operator of a Transmission Facility	2015-05-01	2021-12-31	X
EOP-003-AB1-1	Load Shedding Plans	AESO	Operator of a Transmission Facility	MATL COD	2021-12-31	X
EOP-004-4	Event Reporting	WECC	TO, TOP	2019-04-01	N/A	
EOP-005-AB-2	System Restoration from Blackstart Resources	AESO	Operator of a Transmission Facility	2019-12-01	N/A	
EOP-005-3	System Restoration from Blackstart Resources	WECC	TO, TOP	2019-04-01	N/A	
EOP-008-AB-1	Loss of Control Centre Functionality	AESO	Operator of a Transmission Facility	2019-07-01	N/A	

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
EOP-008-2	Loss of Control Centre Functionality	WECC	TOP	2019-04-01	N/A	
EOP-010-1	Geomagnetic Disturbance Operations	WECC	TOP	2015-04-01	N/A	
<b>EOP-011-AB-1</b>	<b>Emergency Operations</b>	<b>AESO</b>	<b>Operator of a Transmission Facility</b>	<b>2022-01-01</b>	<b>N/A</b>	<b>X</b>
EOP-011-1	Emergency Operations	WECC	TOP	2017-04-01	N/A	
<b>FACILITIES DESIGN, CONNECTIONS, and MAINTENANCE (FAC)</b>						
FAC-001-3	Facility Interconnection Requirements	WECC	TO	2019-01-01	N/A	
FAC-002-2	Facility Interconnection Studies	WECC	TO, TP	2016-01-01	2021-03-31	X
<b>FAC-002-3</b>	<b>Facility Interconnection Studies</b>	<b>WECC</b>	<b>TO, TP</b>	<b>2021-04-01</b>	<b>N/A</b>	<b>X</b>
FAC-003-AB1-1	Transmission Vegetation Management Program	AESO	Legal Owner of a Transmission Facility	MATL COD	N/A	
FAC-003-4	Transmission Vegetation Management	WECC	TO	2016-10-01	N/A	
FAC-008-AB-3	Facility Ratings	AESO	Legal Owner of a Transmission Facility	2019-12-01	N/A	
FAC-008-3	Facility Ratings	WECC	TO	MATL COD	N/A	
<b>FAC-013-2</b>	<b>Assessment of Transfer Capability for the Near-Term Transmission Planning Horizon</b>	<b>WECC</b>	<b>TP</b>	<b>MATL COD</b>	<b>2020-12-14</b>	<b>X</b>
FAC-014-2	Establish and Communicate System Operating Limits	WECC	TP, TOP	MATL COD	N/A	
FAC-501-WECC-AB2-1	Transmission Maintenance	AESO	Legal Owner of a Transmission Facility	2015-07-01	N/A	
FAC-501-WECC-2	Transmission Maintenance	WECC	TO	2018-07-01	N/A	
<b>INTERCHANGE SCHEDULING and COORDINATION (INT)</b>						
INT-006-4	Evaluation of Interchange Transactions	WECC	TSP	2014-10-01	2021-03-31	X
<b>INT-006-5</b>	<b>Evaluation of Interchange Transactions</b>	<b>WECC</b>	<b>TSP</b>	<b>2021-04-01</b>	<b>N/A</b>	<b>X</b>
<b>INTERCONNECTION RELIABILITY OPERATIONS AND COORDINATION (IRO)</b>						
IRO-001-4	Reliability Coordination — Responsibilities	WECC	TOP	2017-04-01	N/A	
IRO-010-2	Reliability Coordinator Data Specification and Collection	WECC	TO, TOP	2017-01-01	2021-03-31	X
<b>IRO-010-3</b>	<b>Reliability Coordinator Data Specification and Collection</b>	<b>WECC</b>	<b>TO, TOP</b>	<b>2021-04-01</b>	<b>N/A</b>	<b>X</b>
IRO-017-1	Outage Coordination	WECC	TP, TOP	2017-04-01	N/A	
<b>MODELING, DATA AND ANALYSIS (MOD)</b>						
MOD-001-1a	Available Transmission System Capability	WECC	TSP, TOP	MATL COD	N/A	
MOD-004-1	Capacity Benefit Margin	WECC	TP, TSP	MATL COD	N/A	
MOD-008-1	Transmission Reliability Margin Calculation Methodology	WECC	TOP	MATL COD	N/A	
MOD-010&012-AB-0	Steady-State and Dynamic Data for Transmission System Modeling and Simulation	AESO	Legal Owner of a Transmission Facility	2014-01-01	N/A	
MOD-020-0	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	WECC	TP	MATL COD	N/A	
MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	WECC	TO	2016-07-01	N/A	
MOD-026-1	Verification of Models and Data for Generator Excitation Control System or Plant Volt/VAR Control Functions	WECC	TP	2014-07-01	N/A	
MOD-027-1	Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions	WECC	TP	2014-07-01	N/A	
MOD-029-2a	Rated System Path Methodology	WECC	TOP, TSP	2017-04-01	N/A	
MOD-031-2	Demand and Energy Data	WECC	TP	2016-10-01	2021-03-31	X
<b>MOD-031-3</b>	<b>Demand and Energy Data</b>	<b>WECC</b>	<b>TP</b>	<b>2021-04-01</b>	<b>N/A</b>	<b>X</b>
MOD-032-1	Data for Power System Modeling and Analysis	WECC	TO, TP, TSP	2015-07-01	N/A	
MOD-033-1	Steady-State and Dynamic System Model Validation	WECC	TOP	2017-07-01	2021-03-31	X
<b>MOD-033-2</b>	<b>Steady-State and Dynamic System Model Validation</b>	<b>WECC</b>	<b>TOP</b>	<b>2021-04-01</b>	<b>N/A</b>	<b>X</b>
<b>PERSONNEL PERFORMANCE, TRAINING, and QUALIFICATIONS (PER)</b>						
PER-003-AB-1	Operations Personnel Credentials	AESO	Operator of a Transmission Facility	2019-12-01	N/A	
PER-003-2	Operating Personnel Credentials	WECC	TOP	2019-07-01	N/A	
PER-005-AB-2	Operations Personnel Training	AESO	Operator of a Transmission Facility	2019-12-01	N/A	
PER-005-2	System Personnel Training	WECC	TO, TOP	2016-07-01	N/A	
<b>PROTECTION AND CONTROL (PRC)</b>						
PRC-001-AB3-1.1(ii)	Protection System Coordination	AESO	Legal Owner of a Transmission Facility and Operator of a Transmission Facility	2017-10-01	N/A	
PRC-001-1.1(ii)	System Protection Coordination	WECC	TOP	2015-05-29	2021-03-31	X
PRC-002-AB-2	Disturbance Monitoring and Reporting Requirements	AESO	Legal Owner of a Transmission Facility	2019-10-01	N/A	
PRC-002-2	Disturbance Monitoring and Reporting Requirements	WECC	TO	2016-07-01	N/A	
PRC-004-AB2-1	Analysis and Mitigation of Transmission and Generation Protection System Misoperation	AESO	Legal Owner of a Transmission Facility	2019-04-01	N/A	
PRC-004-5(i)	Protection System Misoperation Identification and Correction	WECC	TO	2017-04-02	2021-03-31	X

Reliability Standard (AUC or FERC Approved)	Standard Title	Reliability Authority	MATL Functions	Effective Date	Discontinued Date	Changes Compared to Last Version
PRC-004-6	<b>Protection System Misoperation Identification and Correction</b>	WECC	TO	2021-04-01	N/A	X
PRC-004-WECC-AB1-1	Protection System and RAS Misoperation	AESO	Legal Owner of a Transmission Facility and Operator of a Transmission Facility	2016-08-30	N/A	
PRC-004-WECC-2	Protection System and RAS Misoperation	WECC	TO, TOP	2017-04-01	N/A	
PRC-005-AB2-6	<b>Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance</b>	AESO	Legal Owner of a Transmission Facility	2020-10-13	N/A	X
PRC-005-1.1b	Transmission and Generation Protection System Maintenance and Testing	WECC	TO	2013-11-25	2027-03-31	
PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	WECC	TO	2016-01-01	N/A	
PRC-006-AB-3	<b>Automatic Underfrequency Load Shedding</b>	AESO	Legal Owner of a Transmission Facility	2022-01-01	N/A	X
PRC-006-3	Automatic Underfrequency Load Shedding	WECC	TO	2017-10-01	2021-03-31	X
PRC-006-4	<b>Automatic Underfrequency Load Shedding</b>	WECC	TO	2021-04-01	N/A	X
PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program	WECC	TO	MATL COD	2027-03-31	
PRC-010-2	Undervoltage Load Shedding	WECC	TO, TP	2017-04-02	N/A	
PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing	WECC	TO	MATL COD	2027-03-31	
PRC-012-2	Remedial Action Schemes	WECC	TO	2021-01-01	N/A	
PRC-015-1	<b>Remedial Action Scheme Data and Documentation</b>	WECC	TO	2017-04-01	2020-12-31	X
PRC-016-1	<b>Remedial Action Scheme Misoperations</b>	WECC	TO	2017-04-01	2020-12-31	X
PRC-017-1	Remedial Action Scheme Maintenance and Testing	WECC	TO	2017-04-01	2027-03-31	
PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	WECC	TO	MATL COD	2022-06-30	
PRC-018-AB-1	Disturbance Monitoring Equipment Installation and Data Reporting	AESO	Legal Owner of a Transmission Facility	MATL COD	2025-09-30	
PRC-019-AB-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	AESO	Legal Owner of a Transmission Facility	2022-01-01	N/A	
PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	WECC	TO	2016-07-01	N/A	
PRC-021-AB1-1	Undervoltage Load Shedding Program Data	AESO	Legal Owner of a Transmission Facility	MATL COD	2021-12-31	X
PRC-023-AB-2	<b>Transmission Relay Loadability</b>	AESO	Legal Owner of a Transmission Facility	<del>R6-2014-04-01</del> <del>R1-R5-2015-04-01</del> <del>R1-R5-2016-04-01</del>	2020-06-30	X
PRC-023-AB-4	Transmission Relay Loadability	AESO	Legal Owner of a Transmission Facility	2020-07-01	N/A	
PRC-023-4	Transmission Relay Loadability	WECC	TO	2017-04-01	N/A	
PRC-025-AB-2	Generator Load Reliability	AESO	Legal Owner of a Transmission Facility	2024-10-01	N/A	
PRC-025-2	Generator Relay Loadability	WECC	TO	2018-07-01	N/A	
PRC-026-1	Relay Performance During Stable Power Swings	WECC	TO	2018-01-01	N/A	
PRC-027-1	Coordination of Protection Systems for Performance During Faults	WECC	TO	2021-04-01	N/A	X
<b>TRANSMISSION OPERATIONS (TOP)</b>						
TOP-001-4	Transmission Operations	WECC	TOP	2018-07-01	2021-03-31	X
TOP-001-5	<b>Transmission Operations</b>	WECC	TOP	2021-04-01	N/A	X
TOP-002-4	Operations Planning	WECC	TOP	2017-04-01	N/A	
TOP-003-3	Operational Reliability Data	WECC	TO, TOP	2017-01-01	2021-03-31	X
TOP-003-4	<b>Operational Reliability Data</b>	WECC	TO, TOP	2021-04-01	N/A	X
TOP-010-1(i)	Real-time Reliability Monitoring and Analysis Capabilities	WECC	TOP	2018-04-01	N/A	
<b>TRANSMISSION PLANNING (TP)</b>						
TPL-001-4	Transmission System Planning Performance Requirements	WECC	TP	2015-01-01	2023-06-30	X
TPL-001-5.1	<b>Transmission System Planning Performance Requirements</b>	WECC	TP	2023-07-01	N/A	X
TPL-007-3	<b>Transmission System Planned Performance for Geomagnetic Disturbance Events</b>	WECC	TO, TP	2019-07-01	2020-09-30	X
TPL-007-4	<b>Transmission System Planned Performance for Geomagnetic Disturbance Events</b>	WECC	TO, TP	2020-10-01	N/A	X
<b>VOLTAGE and REACTIVE CONTROL (VAR)</b>						
VAR-001-5	Voltage and Reactive Control	WECC	TOP	2019-01-01	N/A	
VAR-002-WECC-AB-1	Automatic Voltage Regulators and Voltage Regulating Systems	AESO	Operator of a Transmission Facility	MATL COD	N/A	