	NERC and WECC Standards	Туре	Applicability <sup>1</sup>	Related ISO Rules	Stakeholder Consultation	Forward to the AUC	Forecast Effective Date <sup>2</sup>	
1. Standards App	oved by the AUC							
BES Definition <sup>7</sup>	Bulk Electric System	Revision	ISO/MP		October 2, 2020	October 23, 2020	Refer to the AESO Consolidated Authoritative Document Glossary	
EOP-001-AB1-2.1b	Emergency Operations Planning	Retire	ISO/MP		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
EOP-002-AB1-2	Capacity and Energy Emergencies	Retire	ISO/MP		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
EOP-003-AB1-1	Load Shedding Plans	Retire	ISO/MP		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
EOP-011-AB-1	Emergency Operations	New	ISO/MP	Section 305.1 of the ISO rules	February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-006-AB-3	Automatic Underfrequency Load Shedding	New	ISO/MP	OPP 804	February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-009-AB-0	UFLS Performance Following an Underfrequency Event	Retire	ISO		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-010-2	Undervoltage Load Shedding	Revision	ISO/MP		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-021-AB1-1	Undervoltage Load Shedding Program Data	Retire	ISO/MP		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-022-AB-1	Undervoltage Load Shedding Program Performance	Retire	ISO		February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	N/A	Possibly N/A	Sections 502.6, 502.16 and 502.15 of the ISO rules	February 27 - March 25, 2020	August 21, 2020	January 1, 2022	
PRC-018-AB-1 <sup>7</sup>	Disturbance Monitoring Equipment Installation and Data Reporting	Retire	ISO/MP		September 19, 2018	November 23, 2018	See Implementation Plan PRC-002-AB-2, Appendix 2. Retirement of existing PRC- 018-AB-1 effective midnight on September 30, 2025.	
PRC-019-AB-2 <sup>7</sup>	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	New	ISO/MP		June 21, 2018 - July 12, 2018	August 31, 2018	January 1, 2022	
PRC-025-AB-2 <sup>7</sup>	Generator Relay Loadability	New	MP	Section 502.5 of the ISO rules	January 10, 2019 - January 31, 2019	May 30, 2019	October 1, 2024	
	varded to the AUC							
None at this time  3. Standards Under	er Development							
COM-001-AB-3	Communications	Revision	ISO/MP	Sections 502.17 and 502.4 of the ISO rules	TBD	TBD	TBD	
COM-002-AB-4	Operating Personnel Communications Protocols	Revision	ISO/MP		March 19, 2019 - April 3, 2019	TBD	TBD	
EOP-005-3 <sup>7</sup>	System Restoration from Blackstart Resources	Revision	MP		Q1 2021	Q1 2021	TBD	
EOP-006-3 <sup>7</sup>	System Restoration Coordination Specific Training for Personnel	Revision	ISO MP		Q1 2021 Dec 7, 2020 - Jan 12, 2021	Q2 2021	TBD TBD	
PER-006-AB-1 <sup>7</sup> PRC-001-AB4-1.1(ii)	System Protection Coordination	New Retire R3 & R4	MP		TBD	Q1 2021 TBD	TBD	
PRC-026-AB-1 <sup>7</sup>	Relay Performance During Stable Power Swings	New	ISO/MP		TBD	TBD	TBD	
PRC-027-AB-1	Coordination of Protection Systems for Performance During Faults	New	MP		TBD	TBD	TBD	
TPL-001-AB-5.1	Transmission System Planning Performance Requirements	Revision	ISO		TBD TBD	TBD	TBD	
TPL-002-AB1-0	System Performance Following Loss of a Single BES Element	Retire	ISO		עמו	TBD	TBD	
TPL-003-AB-0 TPL-004-AB-0	System Performance Following Loss of Two or More BES Elements  System Performance Following Extreme BES Events	Retire Retire	ISO ISO		TBD TBD	TBD TBD	TBD TBD	
VAR-002-AB-4.1 <sup>7</sup>	Generator Operation for Maintaining Network Voltage Schedules	Revision	MP		Dec 10, 2020 - Jan 12, 2021 Feb 9, 2021 - Feb 24, 2021	Q1 2021	TBD	
VAR-002-WECC-AB-1 <sup>7</sup>	Automatic Voltage Regulators	Retire	MP		<del>Dec 10, 2020 - Jan 12, 2021</del> Feb 9, 2021 - Feb 24, 2021	Q1 2021	TBD	
4. Standards Next in Queue for Development						Status		
CIP-013-1 <sup>4</sup>	Cyber Security – Supply Chain Risk Management	New	ISO/MP			In effect in US, July 1, 2020		
IRO-002-67	Reliability Coordination - Monitoring and Analysis	Revision	ISO			In effect in the US, Jar	nuary 1, 2020	

	NERC and WECC Standards	Туре	Applicability <sup>1</sup>	Related ISO	Stakeholder	Forward to the	Forecast Effective Date <sup>2</sup>
		.,,,,	Аррисавинсу	Rules	Consultation	AUC	Torocast Enecure Bute
RO-006-WECC-3	Qualified Path Unscheduled Flow Relief	Revision	ISO			In effect in the US, Octo	ober 1, 2019
PRC-002-AB1-2	Disturbance Monitoring and Reporting Requirements	Revision	ISO/MP			An Alberta variance is be	eing proposed
	Standards for Development					Status	
one at this time							
	ity Standards for Development					Status	
AL-004-WECC-3	Automatic Time Error Correction	Revision	ISO		In effect in the US October 1, 2018		
IP-008-6	Cyber Security – Incident Reporting and Response Planning	Revision	ISO/MP			In efect in US, April	•
OP-010-1	Geomagnetic Disturbance Operations	New	ISO/MP		In effect	in US, April 1, 2015; R5 in	
AC-003-4 AC-011-3	Transmission Vegetation Management	Revision	MP			In effect in US, Octob	
	System Operating Limits Methodology for the Operations Horizon	Revision	ISO		Datina in the LIG	In effect in the US, Ap	
RC-004-WECC-2	Protection System and Remedial Action Scheme Misoperation	Retire	ISO/MP				e effective date of PRC-012-2
RC-012-2	Remedial Action Schemes	N/A?	ISO/MP		In effect in the US, c		in retirement of PRC-004-WECC-2
RC-015-1	Special Protection System Data and Documentation	New	MP			In effect in the US, Ap	
RC-016-1	Remedial Action Scheme Misoperations	New	MP IOO/MP			In effect in the US, Ap	
PL-007-4	Transmission System Planned Performance for Geomagnetic Disturbance Events	New	ISO/MP			FERC Approved Marc	
AR-501-WECC-3.1	Power System Stabilizer	Revision	MP			In effect in US, Septem	Der 26, 2017
	y Standards for Development				Status		
AL-002-WECC-AB-2a	Contingency Reserve	Revision	ISO		Being superc		with FERC on Sept 6, 2019
IP-002-5.1a	Cyber Security - BES Cyber System Categorization	Revision	ISO/MP			In effect in US, Decemb	
IP-003-8	Security Management Controls	Revision	ISO/MP			In effect in US, Apri	
IP-004-6	Cyber Security - Personnel and Training	Revision	ISO/MP		In effect in US		4.3,4.4 in effect July 1, 2017)
IP-005-6	Cyber Security – Electronic Security Perimeter(s)	Revision	ISO/MP			In effect in US, July	
IP-006-6	Cyber Security - Physical Security of BES Cyber Systems	Revision	ISO/MP		In effect	t in US, July 1, 2016 (R3.1	
P-007-6	Cyber Security - System Security Management	Revision	ISO/MP			In effect in US, July	-
P-009-6	Cyber Security - Recovery Plans for BES Cyber Systems	Revision	ISO/MP		In effect in	US, July 1, 2016 (R2.1 -2	· · · · · · · · · · · · · · · · · · ·
IP-010-3	Cyber Security – Configuration Change Management and Vulnerability Assessments	Revision	ISO/MP			In effect in US, July	,
IP-011-2	Cyber Security - Information Protection	Revision	ISO/MP			In effect in US, July	•
IP-012-1	Cyber Security – Communications between Control Centers	New	ISO/MP			Approved by FERC Janu	
OP-004-4	Event Reporting	Revision	ISO/MP			In effect in US, Apri	
OP-008-2 AC-001-3	Loss of Control Center Functionality Facility Interconnection Requirements	Revision Revision	ISO/MP ISO/(MP?)			In effect in US, Apri In effect in the US Jan	
AC-001-3 AC-002-2	Facility Interconnection Requirements  Facility Interconnection Studies	Revision	ISO/(MP		In effect in I		g superceded by version 3.
AC-010-3	System Operating Limits Methodology for the Planning Horizon	Revision	ISO		in chock in c	In effect in the US, Ar	
AC-013-2 <sup>5</sup>	Assessment of Transfer Capability for the Near-term Transmission Planning Horizon	Retire	ISO			In effect in US, Apri	
AC-501-WECC-2	Transmission Maintenance	Revision	MP			In effect in the US, Ju	ıly 1, 2018
OD-001-1a <sup>5</sup>	Available Transmission System Capability	Retire	ISO			In effect in the US, Ap	
OD-008-1	TRM Calculation Methodology	N/A?	ISO			In effect in the US, Ap	
OD-010&012-AB-0	Steady-State and Dynamic Data for Transmission System Modeling and Simulation	Retire	ISO/MP		Propose to	retire with adoption of MC	
OD-029-2a <sup>5</sup>	Rated System Path Methodology	Retire	ISO			In effect in US, July	
OD-032-1	Data for Power System Modeling and Analysis (retires MOD-010&012)  Steady-State and Dynamic System Model Validation	New	ISO/MP ISO/(MP?)		la affect to	In effect in US, July	
OD-033-1 ER-003-2	Steady-State and Dynamic System Model Validation  Personnel Credentials	New Revision	ISO/(MP?)		in effect in	US, July 1, 2017. Being s In effect in the US, Ju	
ER-003-2 ER-004-AB-2	Reliability Coordinator Staffing	Retire	ISO		PER-004-	2 retired at NERC as part	
RC-004-AB-2	Protection System Misoperation Identification and Correction	New	MP			US, April 2, 2017. Being	
AR-001-5	Voltage and Reactive Control	Revision	ISO/MP		iii oiioot iii	In effect in US, Janua	
	t Yet Prioritized for Development						
AL-003-2	Frequency Response and Frequency Bias Setting	Revision	ISO			Approved by FERC on C	
AC-002-3	Facility Interconnection Studies	Revision	ISO/MP			In effect in the US, Ap	
T-004-3.1 <sup>5</sup>	Dynamic Transfers	Retire	N/A			Filed with FERC Jun	•
T-006-5 <sup>6</sup>	Evaluation of Interchange Transactions	Retire	ISO			In effect in the US, Ap	
IT-009-3 <sup>6</sup>	Implementation of Interchange	Retire	ISO			In effect in the US, Ap	
T-010-2.1 <sup>5</sup>	Interchange Initiation and Modification for Reliability	Retire	ISO			Filed with FERC Jun	e 7, 2019
O-002-7 <sup>6</sup>	Reliability Coordination - Monitoring and Analysis	Retire	ISO			In effect in the US, Ap	
O-010-3	Reliability Coordinator Data Specification and Collection	Revision	ISO/MP			In effect in the US, Ap	
OD-020-0	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	Retire	ISO/MP			Retired at NERC on Dece	ember 14, 2020
OD-031-3	Demand and Energy Data	Revision	ISO/MP			In effect in the US, Ap	oril 1, 2021
OD-033-2	Steady-State and Dynamic System Model Validation	Revision	ISO/MP			In effect in the US, Ap	
UC-001-4	Nuclear Plant Interface Coordination	N/A	N/A			In effect in the US, Ap	oril 1, 2021
RC-004-6 <sup>6</sup>	Protection System Misoperation Identification and Correction	Retire	MP			In effect in the US. At	oril 1, 2021

NERC and WECC Standards		Туре	Applicability <sup>1</sup>	Related ISO Rules	Stakeholder Consultation	Forward to the AUC	Forecast Effective Date <sup>2</sup>
PRC-006-4	Automatic Underfrequency Load Shedding	Revision	ISO/MP		In effect in the US, April 1, 2021. Proposed to be superceded by version 5.		
PRC-024-3	Frequency and Voltage Protection Settings for Generating Resources	Revision	MP		Approved by FERC on July 9, 2020		
TOP-001-5 <sup>6</sup>	Transmission Operations	Retire	ISO/MP		In effect in the US, April 1, 2021		
TOP-003-4	Operational Reliability Data	Revision	ISO/MP		In effect in the US, April 1, 2021		
TPL-001-5.1	Transmission System Planning Performance Requirements	Revision	ISO		Approved by FERC on June 10, 2020		
9. Standards Ap	proved by NERC and Filed with FERC				Status		
BAL-002-WECC-3	Contingency Reserve	Revision	ISO			Filed with FERC Septer	nber 6, 2019
CIP-002-6	Cyber Security – BES Cyber System Categorization	Revision	MP			Filed with FERC June	12, 2020
CIP-005-7	BES Cyber System Logical Isolation	Revision	ISO/MP		Filed with FERC December 14, 2020		
CIP-010-4	Cyber Security - Configuraiton Change Management and Vulderability Assessments	Revision	ISO/MP		Filed with FERC December 14, 2020		
CIP-013-2	Cyber Security - Supply Chain Risk Management	Revision	ISO/MP			Filed with FERC Decem	ber 14, 2020
FAC-008-4 <sup>6</sup>	Facility Ratings	Retire R7 & 8				Filed with FERC Jun	e 7, 2019
INT-004-3.1 <sup>5</sup>	Dynamic Transfers	Retire	N/A			Filed with FERC Jun	e <del>7, 2019</del>
INT-010-2.1 <sup>6</sup>	Interchange Initiation and Modification for Reliability	Retire	<del>ISO</del>			Filed with FERC Jun	e <del>7, 2019</del>
MOD-004-1 <sup>5</sup>	Capacity Benefit Margin	Retire	N/A			Filed with FERC Jun	e 7, 2019
MOD-008-1 <sup>5</sup>	Transmission Reliability Margin Calculation Methodology	Retire	N/A			Filed with FERC Jun	e 7, 2019
MOD-028-2 <sup>5</sup>	Area Interchange Methodology	Retire	N/A			Filed with FERC Jun	e 7, 2019
MOD-030-3 <sup>5</sup>	Flowgate Methodology	Retire	N/A			Filed with FERC Jun	e 7, 2019
PRC-006-5	Automatic Underfrequency Load Shedding	Revision			Filed with FERC October 27, 2020		
VAR-001-6 <sup>6</sup>	Voltage and Reactive Control	Revision				Filed with FERC Jun	e 7, 2019
10. Standards Approved by NERC and Awaiting Filing with FERC						Status	
CIP-005-7	Cyber Security - Electronic Security Perimeter(s)	Revision				opted by the NERC BOT N	
CIP-010-4	Cyber Security - Configuration Change Management and Vulnerability Assessments	Revision				opted by the NERC BOT N	
CIP-013-2	Cyber Security - Supply Chain Risk Management	Revision				opted by the NERC BOT N	
PRC-006-5 Changes from the last n	Automatic Underfrequency Load-Shedding-	Revision			Ae	dopted by the NERC BOT	August 20, 2020

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, the AESO will not be consulting on this standard.

Footnote 4 - Not planning to start development of this standard, for application in Alberta, in 2020.

Footnote 5 - This standard is part of NERC Standards Efficiency Review project and is proposed to be retired with this project.

Footnote 6 - This standard is part of NERC Standards Efficiency Review project and contains proposed partial retirements.

Footnote 7 - No other standards are included with this initiative.

The Alberta Reliability Standards Project Work Plan (the "Work Plan") is for general information purposes only and the Albert a 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 t heir 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 here in. Parties using or relying on the Work Plan do so solely at their own risk, and all information contained herein should be independently verified.

## Legend for Section 3 - Standards Under Development

Individual reliability standard or initiative
Communication related standards
Standards related to the development of EOP-011-AB-1 Emergency Operations
Standards related to the development of PRC-027-AB-1 Coordination of Protection Systems for Performance During Faults
Relay Loadability standards
Transmission Planning standards