

MANDATORY STANDARDS SUBJECT TO ENFORCEMENT				
Matter Number	Standard Number	Title	NERC Effective Date (M/D/Y)	Nova Scotia Effective Date (M/D/Y)
Resource and Demand Balancing (BAL)				
M07051	BAL-001-2	Real Power Balancing Control Performance	7/1/2016	7/1/2016
M08993	BAL-002-3	Disturbance Control Standard – Contingency Reserve for Recovery from a Balancing Contingency Event	4/1/2019	10/1/2019
M07340	BAL-003-1.1	Frequency Response and Frequency Bias Setting	(R1) 4/1/2016 (R2,3,4) 11/13/2015	(R1) 10/1/2018 (R2,3,4) 10/01/2017
M09917	BAL-003-2	Frequency Response and Frequency Bias Setting	12/1/2020	7/1/2021
M08417	BAL – 005-1	Balancing Authority Control	1/1/2019	4/1/2019
Communications (COM)				
M07890	COM-001-3	Communications	10/1/2017	1/1/2018
M07051	COM-002-4	Operating Personnel Communications Protocols	7/1/2016	1/1/2017
Critical Infrastructure Protection (CIP)				
M07890	CIP-002-5.1a	Cyber Security – BES Cyber System Categorization	12/27/2016	10/1/2016
M09493	CIP-003-8	Cyber Security – Security Management Controls	4/1/2020	4/1/2021
M07489	CIP-004-6	Cyber Security – Personnel and Training	7/1/2016	1/1/2017
M09103 M09699	CIP-005-6	Cyber Security – Electronic Security Perimeter(s)	7/1/2020	4/1/2021
M10125	CIP-005-7	Cyber Security – Electronic Security Perimeter(s)	10/1/2022	1/1/2023
M07489	CIP-006-6	Cyber Security – Physical Security of BES Cyber Systems	7/1/2016	(R1) 1/1/2017 (R1, Part 1.10) 7/1/2017
M07489	CIP-007-6	Cyber Security – System Security Management	7/1/2016	(R1) 1/1/2017 (R1, Part 1.2) 7/1/2017
M09386	CIP-008-6	Cyber Security – Incident Reporting and Response Planning	1/1/2021	7/1/2021
M07489	CIP-009-6	Cyber Security – Recovery Plans for BES Cyber Systems	7/1/2016	1/1/2017

M09103 M09699	CIP-010-3	Cyber Security – Configuration Change Management and Vulnerability Assessments	7/1/2020	4/1/2021
M10125	CIP-010-4	Cyber Security – Configuration Change Management and Vulnerability Assessments	10/1/2022	1/1/2023
M07489	CIP-011-2	Cyber Security – Information Protection	7/1/2016	1/1/2017
M09738	CIP-012-1	Cyber Security – Communications between Control Centers	7/1/2022	10/1/2022
M09103 M09699	CIP-013-1	Cyber Security – Supply Chain Risk Management	7/1/2020	4/1/2021
M10125	CIP-013-2	Cyber Security – Supply Chain Risk Management	10/1/2022	1/1/2023
M07183	CIP-014-2	Physical Security	10/2/2015	12/11/2015
Emergency Preparedness and Operations (EOP)				
M08723	EOP-004-4	Event Reporting	4/1/2019	10/1/2019
M08723	EOP-005-3	System Restoration from Blackstart Resources	4/1/2019	10/1/2019
M08723	EOP-008-2	Loss of Control Centre Functionality	4/1/2019	10/1/2019
M06363	EOP-010-1	Geomagnetic Disturbance Operations	4/1/2015	4/1/2015
M07340	EOP-011-1	Emergency Operations	4/1/2017	10/1/2017
Facilities Design, Connection, and Maintenance (FAC)				
M08417	FAC-001-3	Facility Interconnection Requirements	1/1/2019	4/1/2019
M06728	FAC-002-2	Facility Interconnection Studies	1/1/2016	1/1/2016
M09994	FAC-002-3	Facility Interconnection Studies	4/1/2021	10/1/2021
M07633	FAC-003-4	Transmission Vegetation Management	10/1/2016	4/1/2017
M04846	FAC-008-3	Facility Ratings	1/1/2013	1/1/2013
M10223	FAC-008-5	Facility Ratings	10/1/2021	1/1/2022
M03324	FAC-010-2.1	System Operating Limits Methodology for the Planning Horizon	4/29/2009	7/20/2011
M03324	FAC-014-2	Establish and Communicate System Operating Limits	4/29/2009	7/20/2011
Interchange Scheduling and Coordination (INT)				
M09917	INT-006-5	Evaluation of Interchange Transactions	4/1/2021	7/1/2021
M09917	INT-009-3	Implementation of Interchange	4/1/2021	7/1/2021
Interconnection Reliability Operations and Coordination (IRO)				
M07340	IRO-001-4	Reliability Coordination - Responsibilities	4/1/2017	10/1/2017
M04460	IRO-006-5	Reliability Coordination – Transmission Loading Relief (TLR)	7/1/2011	6/8/2012

M07340	IRO-010-2	Reliability Coordinator Data Specification and Collection	1/1/2017	10/1/2017 (R3.5) 4/1/2017
M09994	IRO-010-3	Reliability Coordinator Data Specification and Collection	4/1/2021	10/1/2021
M07340	IRO-017-1	Outage Coordination	4/1/2017	10/1/2017
Modeling, Data, and Analysis (MOD)				
M04460	MOD-001-1a	Available Transmission System Capability	4/1/2011	6/8/2012
M04460	MOD-004-1	Capacity Benefit Margin	4/1/2011	7/1/2013
M04460	MOD-008-1	Transmission Reliability Margin Calculation Methodology	4/1/2011	7/1/2013
M06258	MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	7/1/2016	7/1/2016
M06258	MOD-026-1	Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Function	7/1/2014	7/16/2014
M06258	MOD-027-1	Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions	7/1/2014	7/16/2014
M06011	MOD-028-2	Area Interchange Methodology	10/1/2013	1/1/2014
M04460	MOD-029-1a	Rated System Path Methodology	4/1/2011	7/1/2012
M04460	MOD-030-2	Flowgate Methodology	4/1/2011	7/1/2013
M07489	MOD-031-2	Demand and Energy Data	10/1/2016	7/1/2017
M09994	MOD-031-3	Demand and Energy Data	4/1/2021	10/1/2021
M06363	MOD-032-1	Data for Power System Modeling and Analysis	7/1/2015	7/1/2015
M06363	MOD-033-1	Steady-State and Dynamic System Model Validation	7/1/2017	7/1/2017
M09994	MOD-033-2	Steady-State and Dynamic System Model Validation	4/1/2021	10/1/2021
Personnel Performance, Training, and Qualifications (PER)				
M09103 M09699	PER-003-2	Operating Personnel Credentials	7/1/2019	1/1/2021
M06363	PER-005-2	Operations Personnel Training	7/1/2016	10/1/2016
M08860 M09699	PER-006-1	Specific Training for Personnel	10/1/2020	7/1/2021
Protection and Control (PRC)				
M07051	PRC-001-1.1(ii)	System Protection Coordination	5/29/2015	11/12/2015
M07183	PRC-002-2	Disturbance Monitoring and Reporting Requirements	7/1/2016	7/1/2016

M09917	PRC-004-6	Protection System Misoperation Identification and Correction	4/1/2021	7/1/2021
M07340	PRC-005-6	Protection System, Automatic Reclosing and Sudden Pressure Relaying Maintenance	1/1/2016	10/1/2016
M05713	PRC-006-NPCC-1	Automatic Underfrequency Load Shedding	7/1/2015	7/1/2015
M09738	PRC-006-NPCC-2	Automatic Underfrequency Load Shedding	4/1/2020	(All except R3) 1/1/2021 (R3) 10/1/2021
M06890	PRC-006-2	Automatic Underfrequency Load Shedding	10/1/2015	1/1/2016
M09994	PRC-006-4	Automatic Underfrequency Load Shedding	4/1/2021	10/1/2021
M09994	PRC-006-5	Automatic Underfrequency Load Shedding	7/1/2021	1/1/2022
M03324	PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program	6/18/2007	7/20/2011
M03324	PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing	6/18/2007	7/20/2011
M08417	PRC-012-2	Remedial Action Schemes	1/1/2021	4/1/2021
M03324	PRC-015-0	Special Protection System Data and Documentation	6/18/2007	7/20/2011
M03324	PRC-016-0.1	Special Protection System Misoperations	6/18/2007	7/20/2011
M03324	PRC-017-0	Special Protection System Maintenance and Testing	6/18/2007	7/20/2011
M03324	PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	6/18/2007	7/20/2011
M07051	PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	7/1/2016	7/1/2016
M06545	PRC-023-3	Transmission Relay Loadability	10/1/2014	1/1/2015
M07051	PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	7/1/2016	7/1/2016
M09917	PRC-024-3	Frequency and Voltage Protection Settings for Generation Resources	10/1/2022	7/1/2023
M08860	PRC-025-2	Generator Relay Loadability	7/1/2018	1/1/2019
M07489	PRC-026-1	Relay Performance During Stable Power Swings	1/1/2018	(R1) 10/1/2017 (R2, 3, 4) 10/1/2019
M08860 M09699	PRC-027-1	Coordination of Protection Systems for Performance During Faults	10/1/2020	7/1/2021
Transmission Operations (TOP)				
M09917	TOP-001-5	Transmission Operations	4/1/2021	7/1/2021
M07340	TOP-002-4	Operations Planning	4/1/2017	10/1/2017

M07340	TOP-003-3	Operational Reliability Data	1/1/2017	10/1/2017
M09994	TOP-003-4	Operational Reliability Data	4/1/2021	10/1/2021
M08417	TOP-010-1(i)	Real-time Reliability Monitoring and Analysis Capabilities	4/1/2018	4/1/2018
Transmission Planning (TPL)				
M06132	TPL-001-4	Transmission System Planning Performance Requirements	1/1/2015	10/1/2015
M09835	TPL-001-5.1	Transmission System Planning Performance Requirements	7/1/2023	10/1/2023 Exception: Footnote 12 on pp. 28 of TPL-001-5 shall apply to Extra High Voltage faults designated in Table 1 as P2.2, P2.3, P4 and P5
M09103	TPL-007-3	Transmission System Planned Performance for Geomagnetic Disturbance Events	7/1/2019	10/1/2019 (R1, R2) 10/1/2019 (R5) 4/1/2020 (R9) 4/1/2020 (R11,R12) 11/1/2021 (R6, R10) 4/1/2022 (R3, R4, R8) 4/1/2023 (R7) 4/1/2024
M09738	TPL-007-4	Transmission System Planned Performance for Geomagnetic Disturbance Events	10/1/2020	(R1, R2, R5, R9) 4/1/2021 (R12,R13) 11/1/2021 (R6, R10) 4/1/2022 (R3, R4, R8) 4/1/2023 (R7, R11) 4/1/2024
Voltage and Reactive (VAR)				
M09103	VAR-001-5	Voltage and Reactive Control	1/1/2019	7/1/2019
M08417	VAR-002-4.1	Generator Operation for Maintaining Network Voltage Schedules	9/26/2017	4/1/2018

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