

MANDATORY STANDARDS SUBJECT TO ENFORCEMENT (Third Quarter 2025)

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
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
M12293	BAL-007-1	Near-term Energy Reliability Assessments	4/1/2027	1/1/2028
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
M11131	CIP-003-9	Cyber Security – Security Management Controls	4/1/2026	7/1/2026
M10459	CIP-004-7	Cyber Security – Personnel and Training	1/1/2024	4/1/2024
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) 10/1/2017
M07489	CIP-007-6	Cyber Security – System Security Management	7/1/2016	(R1) 1/1/2017 (R1, Part 1.2) 10/1/2017
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
M10125	CIP-010-4	Cyber Security – Configuration Change Management and Vulnerability Assessments	10/1/2022	1/1/2023
M10459	CIP-011-3	Cyber Security – Information Protection	1/1/2024	4/1/2024

M09738	CIP-012-1	Cyber Security – Communications between Control Centers	7/1/2022	10/1/2022
M11837	CIP-012-2	Cyber Security – Communications between Control Centers	7/1/2026	10/1/2026
M10125	CIP-013-2	Cyber Security – Supply Chain Risk Management	10/1/2022	1/1/2023
M10727	CIP-014-3	Physical Security	6/16/2022	10/1/2023
M12436	CIP-015-1	Cyber Security – Internal Network Security Monitoring	10/01/2028	Date for all High and Medium Impact Control Centers with External Routable Connectivity (ERC) must be compliant with effective date of standard: - Effective January 1, 2029 Date for all other Medium Impact BES Cyber Systems with External Routable Connectivity (ERC) must be compliant (24 months after effective date of standard). - Effective January 1, 2031
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
M11131	EOP-011-3	Emergency Preparedness and Operations	TBD	1/1/2025
M11720	EOP-011-4	Emergency Preparedness and Operations	TBD	1/1/2025 except R1 Part 1.2.5, R2 Part 2.2.8, R8 7/1/2027
M12577	EOP-012-3	Extreme Cold Weather Preparedness and Operations	10/01/2025	July 1, 2026
Facilities Design, Connection, and Maintenance (FAC)				
M10986	FAC-001-4	Facility Interconnection Requirements	1/1/2024	4/1/2024
M10986	FAC-002-4	Facility Interconnection Studies	1/1/2024	4/1/2024
M10601	FAC-003-5	Transmission Vegetation Management	4/1/2024	10/1/2024
M10223	FAC-008-5	Facility Ratings	10/1/2021	1/1/2022

M10601	FAC-014-3	Establish and Communicate System Operating Limits	4/1/2024	10/1/2024
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
M11543	IRO-010-5	Reliability Coordinator Data Specification and Collection	7/1/2025	10/1/2025
M07340	IRO-017-1	Outage Coordination	4/1/2017	10/1/2017

Modeling, Data, and Analysis (MOD)				
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
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
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)				

M12293	PRC-002-5	Disturbance Monitoring and Reporting Requirements	4/1/2025	April 1, 2026
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
M09738	PRC-006-NPCC-2	Automatic Underfrequency Load Shedding	4/1/2020	(All except R3) 1/1/2021 (R3) 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-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
M11720	PRC-023-6	Transmission Relay Loadability	4/1/2024	10/1/2024
M12577	PRC-024-4	Frequency and Voltage Protection Settings for Synchronous Generators, Type 1 and Type 2 Wind Resources, and Synchronous Condensers	10/01/2026	July 1, 2026
M08860	PRC-025-2	Generator Relay Loadability	7/1/2018	1/1/2019
M10601	PRC-026-2	Relay Performance During Stable Power Swings	4/1/2024	10/1/2024
M08860 M09699	PRC-027-1	Coordination of Protection Systems for Performance During Faults	10/1/2020	7/1/2021
M12293	PRC-028-1-R1, R2, R3, R4, R5, R6, R7	Disturbance Monitoring and Reporting Requirements for Inverter-Based Resources	4/1/2025	<u>BES Inverter-Based Resources</u> January 1, 2029

				- Multiple IBRs, then 50% must be compliant, with full (100%) compliance required by April 1, 2030. - one IBR, 100% compliant <u>Non-BES Inverter-Based Resources</u> - Resources in commercial operation on or before May 15, 2026— April 1, 2030 Resources in commercial operation after May 15, 2026— April 1, 2029 or the commercial operation date if it is later
M12293	PRC-028-1 – R8	PRC-028-1 Requirements R8	Nine (9) months after the effective date of Reliability Standard PRC-028-1	<u>BES Inverter-Based Resources</u> - October 1, 2029 <u>Non-BES Inverter-Based Resources</u> - January 1, 2029
M12577	PRC-029-1	Frequency and Voltage Ride-through Requirements for Inverter-based Resources	10/01/2026	July 1, 2026
	Transmission Operations (TOP)			
M10601	TOP-001-6	Transmission Operations	4/1/2024	10/1/2024
M11720	TOP-002-5	Operations Planning	10/1/2025	1/1/2026
M11543	TOP-003-6.1	Operational Reliability Data	7/1/2025	10/1/2025
M08417	TOP-010-1(i)	Real-time Reliability Monitoring and Analysis Capabilities	4/1/2018	4/1/2018
M12293	TOP-003-7	Transmission Operator and Balancing Authority Data and Information Specification and Collection	10/1/2026	7/1/2027
	Transmission Planning (TPL)			
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
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
M08417	VAR-002-4.1	Generator Operation for Maintaining Network Voltage Schedules	9/26/2017	4/1/2018
M12293	TPL-008-1-R1	Transmission System Planning Performance Requirements for Extreme Temperature Events	4/1/2026	January 1, 2027
M12293	TPL-008-1-R2, R3, R4, R5, R6	TPL-008-1 Requirements R2, R3, R4, R5, R6	Twenty-four (24) months after the effective date of TPL-008-1.	January 1, 2028
M12293	TPL-008-1-R7, R8, R9	TPL-008-1 Requirements R7, R8, R9, R10, R11	Forty-eight (48) months after the effective date of TPL-008-1	January 1, 2030