

Number	NERC/MRO/MAIN Standards Reliability Standards Version 0 Attached as .pdf	MRO Additional Standards	Recommendations for MRO Procedure, Criteria, and Plans	Comments	Former MAIN-MAPP Standards/Guides/Policies
Resource and Demand Balancing					
BAL-001-0	Real Power Balancing Control Performance	Version 0 Adopted			Policy 1 Section A
BAL-002-0	Disturbance Control Performance	MBAL-002-0 Operating Reserve - Spinning Proposed			Policy 1 Section B MAIN Guide 1A MAIN Guide 5A MAIN Guide 5B
BAL-003-0	Frequency Response and Bias	Version 0 Adopted	MRO Compliance recommended to review MAIN Guide 7 for possible incorporation		Policy 1 Section C
BAL-004-0	Time Error Correction	Version 0 Adopted			Policy 1 Section D
BAL-005-0	Automatic Generation Control	Version 0 Adopted	MRO recommended to review MAIN Guide 5A criteria for regulating reserves to be utilized as a Best Practice		Policy 1 Section E
BAL-006-0	Inadvertent Interchange	Version 0 Adopted	MRO recommended to review procedures to prepare a monthly Inadvertent Interchange summary to monitor the Balancing Authorities' monthly Inadvertent Interchange and all-time accumulated Inadvertent Interchange.		Policy 1 Section F
Critical Infrastructure Protection					
1200	Urgent Action Standard - Cyber Security			NERC CIP-002-1 through CIP-009-1 out for comment	
CIP-001-0	Sabotage Reporting	Version 0 Adopted	MRO recommended to review and modify specific reporting criteria and conditions		Policy 5 Section F and G
Communications					
COM-001-0	Telecommunications	Version 0 Adopted		The requirement to have a MCCS is not a standard and should be addressed by MAPP and the MRO	Policy 7
COM-002-0	Communications and Coordination	Version 0 Adopted			Policy 5 Section B
Emergency Preparedness and Operations					
EOP-001-0	Emergency Operations Planning	Version 0 Adopted			MAPP Policy 5 Policy 6 Section B P6T1

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EOP-002-0	Capacity and Energy Emergencies	Version 0 Adopted	MRO recommended to review MAIN Guide 1A as a possible Best Practice	GRSP Pool Requirements Applicable	Policy 5 Section C P5T1 Policy 9 Section F MAIN Guide 1A MAIN DCS Allocation
EOP-003-0	Load Shedding Plans	Version 0 Adopted	MRO recommended to review criteria and procedures required to develop a regional plan for UFLS.		Policy 6 Section C MAIN Guide 1B MAIN Guide 1C MAIN Guide 3A
EOP-004-0	Disturbance Reporting	Version 0 Adopted	MRO recommended to review Appendix 5F and MAIN Guide 3A to update disturbance reporting		MAPP Appendix 5F MAIN Guide 3A
EOP-005-0	System Restoration Plans	Version 0 Adopted	MRO recommended to develop criteria for coordination and review of System Restoration Plans		Policy 6 Section D P6T2 MAIN Guide 1B MAIN Guide 1C MAIN Guide 3A
EOP-006-0	Reliability Coordination - System Restoration	Version 0 Adopted			Policy 9 Section G
EOP-007-0	Establish, Maintain, and Document a Regional Blackstart Capability Plan	Version 0 Adopted	MRO recommended to review and modify the Regional Blackstart Capability Plan, and coordinate with appropriate entities.		IV.A.M1
EOP-008-0	Plans for Loss of Control Center Functionality	Version 0 Adopted			Policy 6 Section E P6T3
EOP-009-0	Documentation of Blackstart Generating Unit Test Results	Version 0 Adopted		Part of EOP-007-0 plan	IV.A.M4
Facilities Design, Connections and Maintenance					
FAC-001-0	Facility Connection Requirements	Version 0 Adopted	MRO recommended to review and modify planning criteria and facility connection requirements.		I.C.M1
FAC-002-0	Coordination of Plans for New Facilities	Version 0 Adopted	MRO recommended to review and modify MRO system planning and reporting requirements criteria		I.C.M2
FAC-003-0	Vegetation Management Program	Version 0 Adopted	MRO recommended to review and modify criteria that designates critical transmission lines and reporting process within the region	NERC FAC 003-1 currently out for comments	
FAC-004-0	Methodologies for Determining Electrical Facility Ratings	Version 0 Adopted	MRO recommended to review and modify criteria for member utilization		II.C.M1 MAIN Guide 3A MAIN Guide 3B
FAC-005-0	Electrical Facility Ratings for System Modeling	Version 0 Adopted			II.C.M2 MAIN Guide 3A MAIN Guide 3B

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Interchange Scheduling and Coordination					
INT-001-0	Interchange Transaction Tagging	Version 0 Adopted			Policy 3, Section A P3T3
INT-002-0	Interchange Transaction Tag Communication and Assessment	Version 0 Adopted			Policy 3, Section A P3T3
INT-003-0	Interchange Transaction Implementation	Version 0 Adopted			Policy 3, Section B and C P3T3
INT-004-0	Interchange Transaction Modifications	Version 0 Adopted			Policy 3, Section D P3T4
Interconnection Reliability Operations and Coordination					
IRO-001-0	Reliability Coordination – Responsibilities and Authorities	Version 0 Adopted	MRO recommended to develop method to review the Reliability Coordinator documentation and the agreements with entities that delineate the authority of the Reliability Coordinator		Policy 9 Section A P9T3
IRO-002-0	Reliability Coordination – Facilities	Version 0 Adopted			Policy 9 Section H & I
IRO-003-0	Reliability Coordination – Wide Area View	Version 0 Adopted			Policy 9 Section E
IRO-004-0	Reliability Coordination – Operations Planning	Version 0 Adopted			MAPP Policy 6 Policy 9 Section D P9T1
IRO-005-0	Reliability Coordination – Current Day Operations	Version 0 Adopted			MAPP Policy 6 Policy 9 Section E
IRO-006-0	Reliability Coordination – Transmission Loading Relief	Version 0 Adopted	MRO recommended to develop criteria and process to initiate an investigation if there is a complaint that an entity has not implemented relief procedures		Policy 9 Section F P9T2
Modeling, Data, and Analysis					
MOD-001-0	Documentation of TTC and ATC Calculation Methodologies	Version 0 Adopted	MRO recommend to review and modify as necessary the Regional TTC and ATC Calculation methodologies		I.E.1.M1 MAPP Appendix 6A, subsection A
MOD-002-0	Review of TTC and ATC Calculations and Results	Version 0 Adopted	MRO recommended to review and modify procedures to review compliance with regional methodology		I.E.1.M3
MOD-003-0	Procedure for Input on TTC and ATC Methodologies and Values	Version 0 Adopted	MRO recommended to review and modify regional criteria on how users can input and question values		I.E.1.M4
MOD-004-0	Documentation of Regional CBM Methodologies	Version 0 Adopted	MRO recommended to review and modify as necessary the CBM methodology		I.E.2.M1 MAPP Appendix 6A, Subsection C

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MOD-005-0	Procedure for Verifying CBM Values	Version 0 Adopted	MRO recommended to review and modify procedures to review compliance with regional methodology		I.E.2.M3
MOD-006-0	Procedures for Use of CBM Values	Version 0 Adopted			I.E.2.M4 ADR Procedure MAIN Guide 11
MOD-007-0	Documentation of the Use of CBM	Version 0 Adopted	MRO recommended to review process for reporting use and violations of the CBM		I.E.2.M5
MOD-008-0	Documentation and Content of Each Regional TRM Methodology	Version 0 Adopted	MRO recommend to review and modify as necessary the TRM methodology		I.E.2.M6 MAPP Appendix 6A, Subsection B
MOD-009-0	Procedure for Verifying TRM Values	Version 0 Adopted	MRO recommended to review and modify TRM procedures to review compliance with regional methodology		I.E.2.M8
MOD-010-0	Steady-State Data for Transmission System Modeling and Simulation	Version 0 Adopted	MRO recommended to review and modify reporting process related to steady-state modeling and simulation data submissions		II.A.M1
MOD-011-0	Regional Steady-State Data Requirements and Reporting Procedures	Version 0 Adopted	MRO recommended to review and modify steady-state data requirements and reporting procedures needed to model and analyze the steady-state conditions.		II.A.M2 MAIN MMWG Procedures
MOD-012-0	Dynamics Data for Transmission System Modeling and Simulation	Version 0 Adopted	MRO regional to develop criteria for modeling, analyze and reporting dynamics data for transmission modeling		II.A.M3
MOD-013-0	RRO Dynamics Data Requirements and Reporting Procedures	Version 0 Adopted	MRO recommended to coordinate on the development of the data requirements and reporting procedures.		II.A.M4 MAIN MMWG Procedures
MOD-014-0	Development of Interconnection-Specific Steady State System Models	Version 0 Adopted	MRO recommended to review and modify criteria that establish consistent data requirements, reporting procedures, and system models to be used in the analysis of the reliability of the interconnected transmission systems.		II.A.M5 main Guide 2
MOD-015-0	Development of Interconnection-Specific Dynamics System Models	Version 0 Adopted	MRO recommended to review, modify and maintain a library of initialized Interconnection-specific dynamics system models linked to the steady-state system models		II.A.M6 MAIN Guide 2

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MOD-016-0	Actual and Forecast Demands, Net Energy for Load, Controllable DSM	Version 0 Adopted	MRO recommended to review and modify documentation identifying the scope and details of the actual and forecast (a) Demand data, (b) Net Energy for Load data, and (c) controllable DSM data to be reported for system modeling and reliability analyses.		II.D.M1 MAIN Guide 2 MAIN Guide 4
MOD-017-0	Aggregated Actual and Forecast Demands and Net Energy for Load	Version 0 Adopted	MRO recommended to review and modify procedures to collect and share data		II.D.M4 MAIN Guide 2 MAIN Guide 4
MOD-018-0	Reports of Actual and Forecast Demand Data	Version 0 Adopted	MRO recommended to review and modify reporting requirements		II.D.M6 MAIN Guide 2 MAIN Guide 4
MOD-019-0	Forecasts of Interruptible Demands and DCLM Data	Version 0 Adopted			II.D.M10 MAIN Guide 2
MOD-020-0	Providing Interruptible Demands and DCLM Data	Version 0 Adopted			II.D.M11 MAIN Guide 2
MOD-021-0	Accounting Methodology for Effects of Controllable DSM in Forecasts	Version 0 Adopted			II.D.M12 MAIN Guide 2
Organization Certification					
Proposed SAR	Resource Adequacy Assessments	MRES-001-0 Generation Planning Reserve Proposed		NERC SAR out for comment	
Personnel Performance, Training, and Qualifications					
PER-001-0	Operating Personnel Responsibility and Authority	Version 0 Adopted			MAPP Policy 5 Policy 8 Section A P8T1
PER-002-0	Operating Personnel Training	Version 0 Adopted		Removes MAPP SOT program as a standard	Policy 8 Section B
PER-003-0	Operating Personnel Credentials	Version 0 Adopted			Policy 8 Section C P8T2
PER-004-0	Reliability Coordination – Staffing	Version 0 Adopted			Policy 9 Section J

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Protection and Control					
PRC-001-0	System Protection Coordination	Version 0 Adopted	MRO recommended to review and modify procedures that incorporate MAIN Guide 10 as applicable		Policy 4 Section D MAIN Guide 10 III.F
PRC-002-0	Define and Document Disturbance Monitoring Equipment Requirements	Version 0 Adopted	MRO recommended to review and modify procedures that define and document Disturbance Monitoring Equipment criteria		I.F.M1 I.F.M3 MAPP Appendix 4A MAIN Guide 2 MAIN Guide 10 MAIN Guide 12
PRC-003-0	Regional Procedure for Transmission Protection System Misoperations	Version 0 Adopted	MRO recommended to review and modify procedures for the monitoring, review, analysis, and correction of all transmission protection system misoperations		III.A.M3 MAIN Guide 10 Appendix A MAPP Appendix 4D, Subsection A
PRC-004-0	Analysis and Reporting of Transmission Protection System Misoperations	Version 0 Adopted	MRO recommended to review and modify procedures for reporting documentation of the misoperations analyses and corrective actions		III.A.M5 MAIN Guide 10
PRC-005-0	Transmission Protection System Maintenance and Testing	Version 0 Adopted	MRO to review and modify procedures for documentation of its transmission protection system program and its implementation		III.A.M4 MAIN Guide 10 Appendix C
PRC-006-0	Development and Documentation of Regional UFLS Programs	Version 0 Adopted	MRO recommended to review, further develop, coordinate, and document an UFLS program		III.D.M1 MAIN Guide 1B MAIN Guide 10 MAPP UFLS document
PRC-007-0	Assuring Consistency with Regional UFLS Programs	Version 0 Adopted			III.D.M2 MAIN Guide 1B MAIN Guide 10
PRC-008-0	Under frequency Load Shedding Equipment Maintenance Programs	Version 0 Adopted			III.D.M3 MAIN Guide 10
PRC-009-0	UFLS Performance Following an Underfrequency Event	Version 0 Adopted			III.D.M4 MAIN Guide 10
PRC-010-0	Assessment of the Design and Effectiveness of UVLS Program	Version 0 Adopted			III.E.M3 MAIN Guide 10
PRC-011-0	UVLS System Maintenance and Testing	Version 0 Adopted			III.E.M4 MAIN Guide 10
PRC-012-0	Special Protection System Review Procedure	Version 0 Adopted	MRO recommended to review and modify program to ensure that there is a plan to use an SPS and its associated review procedure		III.F.M1 MAIN Guide 10 Appendix B MAPP Appendix 4B, Subsection B

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PRC-013-0	Special Protection System Database	Version 0 Adopted	MRO recommended to review and modify database that contains SPS information		III.F.M2 MAIN Guide 10
PRC-014-0	Special Protection System Assessment	Version 0 Adopted	MRO recommended to review and modify procedures that assess the operation, coordination, testing, maintenance, and effectiveness of all SPSs installed		III.F.M3 MAIN Guide 10
PRC-015-0	Special Protection System Data and Documentation	Version 0 Adopted			III.F.M4 MAIN Guide 10
PRC-016-0	Special Protection System Misoperations	Version 0 Adopted			III.F.M5 MAIN Guide 10
PRC-017-0	Special Protection System Maintenance and Testing	Version 0 Adopted			III.F.M6 MAIN Guide 10
N/A	Power System Stabilizer	MPRC-018-0 Power System Stabilizer Proposed			MAPP Policy 4 III.C.M1
Transmission Operations					
TOP-001-0	Reliability Responsibilities and Authorities	Version 0 Adopted			Policy 5 Section A MAIN Guide 5A MAIN Guide 5B
TOP-002-0	Normal Operations Planning	Version 0 Adopted			Policy 6 Section A
TOP-003-0	Planned Outage Coordination	Version 0 Adopted	MRO recommended to review and modify procedures to initiate an investigation		Policy 4 Section C T4P4
TOP-004-0	Transmission Operations	Version 0 Adopted	MRO recommended to develop a reference for multiple outage definitions, criteria for operating studies and reliability criteria	Requirement 3 of TOP-004-0 be consolidated with the MAIN guide section on multiple contingency analysis and be the MRO reference for the definition of multiple outages.	MAPP Handbook 8.6.1 Policy 2 Section A
TOP-005-0	Operational Reliability Information	Version 0 Adopted			MAPP Policy 5 Policy 4 Section B P4T2A
TOP-006-0	Monitoring System Conditions	Version 0 Adopted			Policy 4 Section A
TOP-007-0	Reporting SOL and IROL Violations	Version 0 Adopted	MRO recommended to review and modify reporting procedures for IROL events	The 30 minute criteria is contained in TOP-007-0	Policy 2 Section A P2T1
TOP-008-0	Response to Transmission Limit Violations	Version 0 Adopted			Policy 5 Section D

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Transmission Planning					
TPL-001-0	System Performance Under Normal Conditions	MTPL-001-0 System Performance Proposed			I.A.M1 MAIN Guide 2 MAIN Guide 8
TPL-002-0	System Performance Following Loss of a Single BES Element	Version 0 Adopted			I.A.M2 MAIN Guide 2 MAIN Guide 6 MAIN Guide 8
TPL-003-0	System Performance Following Loss of Two or More BES Elements	Version 0 Adopted			I.A.M3 MAIN Guide 2 MAIN Guide 6 MAIN Guide 8
TPL-004-0	System Performance Following Extreme BES Events	Version 0 Adopted			I.A.M4 MAIN Guide 2 MAIN Guide 6 MAIN Guide 8
TPL-005-0	Regional and Interregional Self-Assessment Reliability Reports		MRO recommended to review and modify its criteria to annually conduct reliability assessments of its respective existing and planned Regional Bulk Electric System (generation and transmission facilities)		I.B.M1 MAIN Guide 2 MAIN Guide 8
TPL-006-0	Assessment Data from Regional Reliability Organizations	Version 0 Adopted	MRO recommended to develop procedures and criteria to ensure that the MRO complies with planning criteria, for assessing the overall reliability (Adequacy and Security) of the interconnected Bulk Electric Systems, both existing and as planned.		I.B.M2 MAIN Guide 2 MAIN Guide 8
N/A	Subsynchronous Resonance	MTPL-007-0 Subsynchronous Resonance Proposed			III.B MAPP Policy 2
Voltage and Reactive					
VAR-001-1	Voltage and Reactive Control	Version 0 Adopted	MRO recommended to develop a guide on appropriate Operating Procedures	Voltage criteria is contained in VAR-001-0	MAPP Handbook 6.3.3.1 Policy 2 Section B MAIN Guide 2