



2009 Compliance Monitoring and Enforcement Program Reliability Standards Spreadsheet

ABBREVIATIONS

BA - Balancing Authority
 DP - Distribution Provider
 GO - Generation Owner
 GOP - Generation Operator
 IA - Interchange Authority
 LSE - Load-Serving Entity
 PA - Planning Authority
 PSE - Purchasing-Selling Entities

RC - Reliability Coordinator
 RE - Regional Entity
 RP - Resource Planner
 RSG - Reserve Sharing Group
 TO - Transmission Owner
 TOP - Transmission Operator
 TP - Transmission Planner
 TSP - Transmission Service Provider

RISK BASED CRITERIA

1 - Violation Risk Factor = High
 2 - NERC Violations (Top NERC Violated Requirements)
 3 - Past Events & Major Reliability Issues (Standards identified in eve
 4 - Regional Violations (Top Regional Violated Requirements) regions
 5 - Regional circumstances
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RESOURCE AND DEMAND BALANCING															
BAL-001-0a	Real Power Balancing Control Performance	Low	All	BA				M - Due by the 10th of the following month			X	X	X	x	x
BAL-002-0	Disturbance Control Performance (DCS)	Low/Medium/High	See Monitoring Method	BA, RC, RSG	1	R1, R2, R3 Sept-Oct	R1, R2, R3	Q - All: Due by the 15th of the month following the end of the Quarter			X	X	X	x	x
BAL-003-0a	Frequency Response and Bias	Low/Medium	All	BA				A	X		X	X	X	x	x
BAL-004-0	Time Error Correction	Low	All	BA, RC					X		X	X	X		x
BAL-005-0b	Automatic Generation Control	Low/Medium/High	See Monitoring Method	BA, GOP, LSE, TOP	1	R2, R10 Sept-Oct	R2, R10				X	X	X		x
BAL-006-1	Inadvertent Interchange	Low	All	BA				M - Due by the 10th of the following month	X		X	X	X		x
COMMUNICATIONS															
COM-001-1	Telecommunications	Low/Medium/High	See Monitoring Method	BA, RC, TOP	1	R1 Sept-Oct	R1				X	X	X	x	x
COM-002-2	Communications and Coordination	Medium/High	See Monitoring Method	BA, GOP, RC, TOP	1	R1 Sept-Oct	R1				X	X	X		x
CRITICAL INFRASTRUCTURE PROTECTION															
CIP-001-1	Sabotage Reporting	Medium	All	BA, GOP, LSE, RC, TOP	2,6	Sept-Oct	X				X	X	X	x	x
CIP-002-1	Cyber Security - Critical Cyber Asset Identification	To Be Determined	See Monitoring Method	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual	Beginning July 1, 2009 - R1, R2, R3 Table 1, System Control Ctr.				X	X	X		x
CIP-003-1	Cyber Security - Security Management Controls	To Be Determined	See Monitoring Method	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual	Beginning July 1, 2009 - R1, R2, R3 Table 1, System Control Ctr.				X	X	X		x
CIP-004-1	Cyber Security - Personnel & Training	To Be Determined	See Monitoring Method	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual	Beginning July 1, 2009 - R2, R3, R4 Table 1, System Control Ctr.				X	X	X		x
CIP-005-1	Cyber Security - Electronic Security Perimeter(s)	To Be Determined	All	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual					X	X	X		



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CIP-006-1	Cyber Security - Physical Security of Critical Cyber Assets	To Be Determined	All	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual					X	X	X		
CIP-007-1	Cyber Security - Systems Security Management	To Be Determined	See Monitoring Method	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual	Beginning July 1, 2009 - R1 Table 1, System Control Ctr.			Beginning July 1, 2009 - R1 Table 1, System Control Ctr.	X	X	X		x
CIP-008-1	Cyber Security - Incident Reporting and Response Planning	To Be Determined	See Monitoring Method	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual	Beginning July 1, 2009 - R1 Table 1, System Control Ctr.			Beginning July 1, 2009 - R1 Table 1, System Control Ctr.	X	X	X		x
CIP-009-1	Cyber Security - Recovery Plans for Critical Cyber Assets	To Be Determined	See Monitoring Method	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table	6	Semi-Annual	Beginning July 1, 2009 - R1, R2 Table 1, System Control Ctr.			Beginning July 1, 2009 - R1, R2 Table 1, System Control Ctr.	X	X	X		x
EMERGENCY PREPAREDNESS AND OPERATIONS															
EOP-001-0	Emergency Operations Planning	Medium/High	All	BA, TOP	1,2	Sept-Oct	X				X	X	X	x	x
EOP-002-2	Capacity and Energy Emergencies	Low/Medium/High	All	BA,LSE, RC	1,3	Sept-Oct	X		R9		X	X	X	x	x
EOP-003-1	Load Shedding Plans	High	All	BA, TOP	1	Sept-Oct	X				X	X	X	x	x
EOP-004-1	Disturbance Reporting	Low/Medium	See Monitoring Method	BA, GOP, LSE, RC, RE, TOP					R2, R3		X	X	X		x
EOP-005-1	System Restoration Plans	Medium/High	See Monitoring Method	BA, TOP	1, 2	Sept-Oct	X		R11		X	X	X	x	x
EOP-006-1	Reliability Coordination - System Restoration	Medium/High	See Monitoring Method	RC	1	R2, R5 Sept-Oct	R2, R5		R6	R1, R3	X	X	X	x	x
EOP-008-0	Plans for Loss of Control Center Functionality	Medium/High	All	BA, RC, TOP	1	Sept-Oct	X				X	X	X	x	x
EOP-009-0	Documentation of Blackstart Generating Unit Test Results	Low/Medium	All	GO, GOP						X	X	X	X	x	x



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FACILITIES DESIGN, CONNECTIONS AND MAINTENANCE															
FAC-001-0	Facility Connection Requirements	Medium	All	TO	2	Sept-Oct	X				X	X	X		
FAC-002-0	Coordination of Plans for New Generation, Transmission, and End-User	Low/Medium	All	DP, GO, LSE, PA, TO, TP							X	X	X		
FAC-003-1	Transmission Vegetation Management Program	Low/High	See Monitoring Method	TO, RE	1	R1, R2 Sept-Oct	R1, R2	Q - All Due the 15th of the month following close of Quarter			X	X	X	x	x
FAC-008-1	Facility Ratings Methodology	Low/Medium	All	GO, TO	2	Sept-Oct	X				X	X	X	x	x
FAC-009-1	Establish and Communicate Facility Ratings	Medium	All	GO, TO	2	Sept-Oct	X				X	X	X	x	x
FAC-010-1	System Operating Limits Methodology for the Planning Horizon June 18, 2007 through Late 2008	Low/Medium/High	See Monitoring Method	PA	1	R2 Sept-Oct	R2				X	X	X		
FAC-010-2 <i>Pending Approval by FERC in Late 2008</i>	System Operating Limits Methodology for the Planning Horizon	Low/Medium/High	See Requirements Table Tab	PA											
FAC-011-1	System Operating Limits Methodology for the Operations Horizon June 18, 2007 through Late 2008	Low/Medium/High	See Monitoring Method	RC	1	R2 Sept-Oct	R2				X	X	X		
FAC-011-2 <i>Pending Approval by FERC in Late 2008</i>	System Operating Limits Methodology for the Operations Horizon	Low/Medium/High	See Requirements Table Tab	RC											
FAC-013-1	Establish and Communicate Transfer Capabilities	Medium	See Monitoring Method	PA, RC						R1, R2	X	X	X		x
FAC-014-1	Establish and Communicate System Operating Limits June 18, 2007 through Late 2008	Medium/High	See Monitoring Method	PA, RC, TOP, TP	1	R5 Sept-Oct	R5				X	X	X		
FAC-014-2 <i>Pending Approval by FERC in Late 2008</i>	Establish and Communicate System Operating Limits	Medium/High	See Requirements Table Tab	PA, RC, TOP, TP											
INTERCHANGE SCHEDULING AND COORDINATION															
INT-001-3	Interchange Information	Low	All	BA, PSE					X		X	X	X		
INT-003-2	Interchange Transaction Implementation	Low/Medium	All	BA					X		X	X	X		x
INT-004-2	Dynamic Interchange Transaction Modifications	Low	All	BA, PSE, RC, TOP					X		X	X	X		
INT-005-2	Interchange Authority Distributes Arranged Interchange Effective August 27, 2008	Medium	All	IA							X	X	X		
INT-006-2	Response to Interchange Authority	Low	All	BA, TSP							X	X	X		
INT-007-1	Interchange Confirmation	Low	All	IA							X	X	X		
INT-008-2	Interchange Authority Distributes Status	Low	All	IA							X	X	X		
INT-009-1	Implementation of Interchange	Medium	All	BA							X	X	X		
INT-010-1	Interchange Coordination Exemptions	Low	All	BA, RC							X	X	X		



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INTERCONNECTION RELIABILITY OPERATIONS AND COORDINATION															
IRO-001-1	Reliability Coordination - Responsibilities & Authorities	Low/Medium/High	See Monitoring Method	BA, GOP, LSE, PSE, RC, RE, TOP, TSP	1	R2, R3, R7, R8, R9 Sept-Oct	R2, R3, R7, R8, R9				X	X	X	x	x
IRO-002-1	Reliability Coordination - Facilities	Medium/High	See Monitoring Method	RC	1	R1, R4, R5, R6, R7, R8 Sept-Oct	R1, R4, R5, R6, R7, R8				X	X	X		
IRO-003-2	Reliability Coordination - Wide Area View	High	All	RC	1	Sept-Oct	X				X	X	X		x
IRO-004-1	Reliability Coordination - Operations Planning	High	All	BA, GO, GOP, LSE, RC, TO, TOP, TSP	1,3	Sept-Oct	X		X		X	X	X	x	x
IRO-005-1	Reliability Coordination - Current Day Operations	Medium/High	See Monitoring Method	RC, BA, TOP, TSP, GOP, LSE, PSE	1	All except R14 Sept-Oct	All except R14				X	X	X		x
IRO-006-3	Reliability Coordination - Transmission Loading Relief	High	All	BA, RC, TOP	1	Sept-Oct	X				X	X	X		x
IRO-006-4 <i>Pending Approval by FERC in Late 2008</i>	Reliability Coordination - Transmission Loading Relief	To Be Determined	All	BA, RC, TOP											
IRO-014-1	Procedures, Processes, or Plans to Support Coordination between Reliability Coordinators	Low/Medium	All	RC						X	X	X	X	x	x
IRO-015-1	Notifications and Information Exchange between Reliability Coordinators	Low/Medium	All	RC					X		X	X	X	x	x
IRO-016-1	Coordination of Real-time Activities between Reliability Coordinators	Low/Medium	All	RC					X		X	X	X	x	x
MODELING, DATA AND ANALYSIS															
MOD-006-0	Procedures for the Use of Capacity Benefit Margin Values	Low	All	TSP							X	X	X		
MOD-007-0	Documentation of the Use of Capacity Benefit Margin	Low	All	TSP							X	X	X		
MOD-010-0	Steady-State Data for Transmission System Modeling & Simulation	Medium	All	GO, RP, TO, TP							X	X	X		
MOD-012-0	Dynamics Data for Transmission System Modeling and Simulation	Medium	All	GO, RP, TO, TP							X	X	X		
MOD-016-1	Documentation of Data Reporting Requirements for Actual and Forecast Demands, Net Energy for Load, and Controllable Demand-Side Management	Low	All	PA, RRO							X	X	X		
MOD-017-0	Aggregated Actual and Forecast Demands and Net Energy for Load	Medium	All	LSE, PA, RP							X	X	X		
MOD-018-0	Treatment of Nonmember Demand Data and How Uncertainties are Addressed in the Forecasts of Demand and Net Energy for Load	Low/Medium	All	LSE, PA, RP, TP							X	X	X		
MOD-019-0	Forecasts of Interruptible Demands and DCLM Data	Medium	All	LSE, PA, RP, TP							X	X	X		
MOD-020-0	Providing Interruptible Demands and DCLM Management Data To System Operators and Reliability Coordinators	Low	All	LSE, RP, TP							X	X	X		
MOD-021-0	Documentation of the Accounting Methodology for the Effects of Controllable Demand-Side Management in Demand and Energy Forecasts	Low	All	LSE, RP, TP							X	X	X		
PERSONNEL PERFORMANCE, TRAINING AND QUALIFICATIONS															
PER-001-0	Operating Personnel Responsibility and Authority	High	All	BA, TOP	1	Sept-Oct	X				X	X	X		
PER-002-0	Operating Personnel Training	Medium/High	All	BA, TOP	1	Sept-Oct	X				X	X	X	x	x
PER-003-0	Operating Personnel Credentials	High	All	BA, RC, TOP	1	Sept-Oct	X		X		X	X	X	x	x
PER-004-1	Reliability Coordination Staffing	High	All	RC	1	Sept-Oct	X				X	X	X	x	x



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PROTECTION AND CONTROL															
PRC-001-1	System Protection Coordination	High	All	BA, GOP, TOP	1	Sept-Oct	X				X	X	X		
PRC-004-1	Analysis and Mitigation of Transmission and Generation Protection System Misoperations	Low/High	See Monitoring Method	DP, GO, TO	1,2,3	Sept-Oct	X	Q-R1 Due the last day of the month following the end of the Quarter			X	X	X	x	x
PRC-005-1	Transmission and Generation Protection System Maintenance and Testing	Low/High	All	DP, GO, TO	1,2	Sept-Oct	X				X	X	X	x	x
PRC-007-0	Assuring Consistency of Entity Underfrequency Load Shedding Programs with Regional Reliability Organization's Underfrequency Load Shedding Program Requirements	Low/Medium	All	DP, LSE, TP, TOP							X	X	X		
PRC-008-0	Underfrequency Load Shedding Equipment Maintenance Programs	Medium	All	DP, TO	2	Sept-Oct	X				X	X	X	x	x
PRC-009-0	Analysis and documentation of Underfrequency Load Shedding	Low/Medium	All	DP, LSE, TO, TOP							X	X	X		
PRC-010-0	Assessment of the Design and Effectiveness of UVLS Program	Low/Medium	All	DP, LSE, TO, TOP						X	X	X	X	x	x
PRC-011-0	UVLS System Maintenance and Testing	Low/Medium	All	DP, TO						X	X	X	X	x	x
PRC-015-0	Special Protection System Data and Documentation	Low/Medium	All	DP, GO, TO							X	X	X		
PRC-016-0	Special Protection System Misoperations	Medium	See Monitoring Method	DP, GO, TO				Q-R3 Due the last day of the month following the end of the Quarter			X	X	X	x	x
PRC-017-0	Special Protection System Maintenance and Testing	Low/Medium/High	See Monitoring Method	DP, GO, TO	1	R1	R1				X	X	X	x	x
PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	Low	All	GO, TO							X	X	X		
PRC-021-1	Under-Voltage Load Shedding Program Data	Low/Medium	All	DP, TO				A			X	X	X	x	x
PRC-022-1	Under-Voltage Load Shedding Program Performance	Low/Medium	All	DP, LSE, TOP							X	X	X		
TRANSMISSION OPERATIONS															
TOP-001-1	Reliability Responsibilities and Authorities	High	All	BA, DP, GOP, LSE, TOP	1	Sept-Oct	X				X	X	X		
TOP-002-2	Normal Operations Planning	Low/Medium/High	All	BA, GOP, LSE, TOP, TSP	1,2		R1, R3, R4, R9, R11, R13, R14, R15, R16, R17, R18, R19 Sept-Oct	R1, R3, R4, R9, R11, R13, R14, R15, R16, R17, R18, R19			X	X	X		x
TOP-003-0	Planned Outage Coordination	Medium	All	BA, GOP, RC, TOP						X	X	X	X	x	x



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TOP-004-1	Transmissions Operations	Medium/High	See Monitoring Method	TOP	1	R1, R2, R3, R4, R5 Sept-Oct	R1, R2, R3, R4, R5				X	X	X	x	x
TOP-005-1	Operational Reliability Information	Low/Medium	All	BA, PSE, RC, TOP					X		X	X	X	x	x
TOP-006-1	Monitoring system conditions	Low/Medium/High	See Monitoring Method	BA, GOP, RC, TOP	1	R2, R6, R7 Sept-Oct	R2, R6, R7				X	X	X		
TOP-007-0	Reporting SOL & IROL Violations Evaluation	High	All	RC, TOP	1	R1 Sept-Oct	X		X		X	X	X	x	x
TOP-008-1	Response To Transmission Limit Violations	Medium/High	See Monitoring Method	TOP	1	R1, R2, R3 Sept-Oct	R1, R2, R3				X	X	X		
TRANSMISSION PLANNING															
TPL-001-0	System Performance Under Normal Conditions	Low/Medium/High	See Monitoring Method	PA, TP	1	R1 Sept-Oct	R1	A - R3			X	X	X	x	x
TPL-002-0	System Performance Following Loss of a Single BES Element	Low/Medium/High	See Monitoring Method	PA, TP	1	R1 Sept-Oct	R1	A - R3			X	X	X	x	x
TPL-003-0	System Performance Following Loss of Two or More BES Elements	Low/Medium/High	See Monitoring Method	PA, TP	1	R1 Sept-Oct	R1	A - R3			X	X	X	x	x
TPL-004-0	System Performance Following Extreme BES Events	Low/Medium	See Monitoring Method	PA, TP		R1 Sept-Oct		A - R2			X	X	X	x	x
VOLTAGE AND REACTIVE															
VAR-001-1	Voltage and Reactive Control	Low/Medium/High	See Monitoring Method	PSE, TOP	1	R1, R2, R5, R7, R8, R9, R10, R12 Sept-Oct	R1, R2, R5, R7, R8, R9, R10, R12				X	X	X	x	x
VAR-002-1a	Generator Operation for Maintaining Network Voltage Schedules	Low/Medium	All	GOP, GO					X		X	X	X		x



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Reliability Standard (FERC Approved)	Requirement Number	Text of Requirement	Functions Monitored	Periodic Data Submittals - M: Monthly Q: Quarterly A: Annual	Exception Reporting	Spot Check	MRO Monitoring Process
RESOURCE AND DEMAND BALANCING							
BAL-001-0a	R1.	Each Balancing Authority shall operate such that, on a rolling 12-month basis, the average of the clock-minute averages of the Balancing Authority's Area Control Error (ACE) divided by 10B (B is the clock-minute average of the Balancing Authority Area's Frequency Bias) times the corresponding clock-minute averages of the Interconnection's Frequency Error is less than a specific limit. This limit is a constant derived from a targeted frequency bound (separately calculated for each Interconnection) that is reviewed and set as necessary by the NERC Operating Committee. <i>See Standard for Formula.</i> <i>See Standard for Approved Interpretation of R1 for WECC WATEC Procedure</i>	BA	M			Balancing Authorities in the MRO submit data for CPS1 calculation to the MRO office where individual performance metrics are calculated to compare with the entity's performance determination. The MRO Compliance office reviews the performance metrics for each BA and submits a report to NERC on a monthly basis.
BAL-001-0a	R2.	Each Balancing Authority shall operate such that its average ACE for at least 90% of clock-ten-minute periods (6 non-overlapping periods per hour) during a calendar month is within a specific limit, referred to as L10. See Standard for Formula.	BA	M			Balancing Authorities in the MRO submit data for CPS2 calculation to the MRO office where individual performance metrics are calculated to compare with the entity's performance determination. The MRO Compliance office reviews the performance metrics for each BA and submits a report to NERC on a monthly basis.
BAL-001-0a	R3.	Each Balancing Authority providing Overlap Regulation Service shall evaluate Requirement R1 (i.e., Control Performance Standard 1 or CPS1) and Requirement R2 (i.e., Control Performance Standard 2 or CPS2) using the characteristics of the combined ACE and combined Frequency Bias Settings.	BA	M			At this time there are no Balancing Authorities in the MRO that provide overlap regulation service. However, the process described above is used if overlap regulation is provided.
BAL-001-0a	R4.	Any Balancing Authority receiving Overlap Regulation Service shall not have its control performance evaluated (i.e. from a control performance perspective, the Balancing Authority has shifted all control requirements to the Balancing Authority providing Overlap Regulation Service).	BA	M			At this time there are no Balancing Authorities in the MRO that provide overlap regulation service. However, the process described above is used if overlap regulation is provided.
BAL-002-0	R1.	Each Balancing Authority shall have access to and/or operate Contingency Reserve to respond to Disturbances. Contingency Reserve may be supplied from generation, controllable load resources, or coordinated adjustments to Interchange Schedules.	BA	Q			The Midwest Contingency Reserve Sharing Group (MCRSG) members are required to ensure each Balancing Authority is able to utilize its Contingency Reserve to balance resources and demand and return Interconnection frequency within defined limits following a Reportable Disturbance. The MISO Reliability Coordinator monitors each reserve group member's reserves on a continuous basis to ensure policies and procedures are followed. The MRO compliance staff review the MCRSG policies and procedures during each BA and RSG audit, and when an alleged violation is discovered during the quarterly reporting period. The MCRSG submits a quarterly report to the MRO office. The MRO Compliance office reviews the DCS performance information and submits a report to NERC each quarter.
BAL-002-0	R2.	Each Regional Reliability Organization, sub-Regional Reliability Organization or Reserve Sharing Group shall specify its Contingency Reserve policies, including:	RRO, RSG	Q			
BAL-002-0	R3.	Each Balancing Authority or Reserve Sharing Group shall activate sufficient Contingency Reserve to comply with the DCS.	BA	Q			
BAL-002-0	R4.	A Balancing Authority or Reserve Sharing Group shall meet the Disturbance Recovery Criterion within the Disturbance Recovery Period for 100% of Reportable Disturbances. The Disturbance Recovery Criterion is:	BA	Q			
BAL-002-0	R5.	Each Reserve Sharing Group shall comply with the DCS. A Reserve Sharing Group shall be considered in a Reportable Disturbance condition whenever a group member has experienced a Reportable Disturbance and calls for the activation of Contingency Reserves from one or more other group members. (If a group member has experienced a Reportable Disturbance but does not call for reserve activation from other members of the Reserve Sharing Group, then that member shall report as a single Balancing Authority.) Compliance may be	RSG	Q			



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BAL-002-0	R6.	A Balancing Authority or Reserve Sharing Group shall fully restore its Contingency Reserves within the Contingency Reserve Restoration Period for its Interconnection.	BA, RSG	Q			
BAL-003-0a	R1.	Each Balancing Authority shall review its Frequency Bias Settings by January 1 of each year and recalculate its setting to reflect any change in the Frequency Response of the Balancing Authority Area.	BA	A	X		This standard requires a consistent method for calculating the Frequency Bias component of ACE. The MRO Reliability Assessment department collects frequency bias data from the Balancing Authorities in the MRO and submits an annual report to NERC by January 1 of each year, and provides a copy of the report to the MRO Compliance office. Any modification or changes to the parameters as identified in the annual report are reported by exception to the MRO Compliance office who then communicates this information to NERC and the MRO Reliability Assessment office.
BAL-003-0a	R2.	Each Balancing Authority shall establish and maintain a Frequency Bias Setting that is as close as practical to, or greater than, the Balancing Authority's Frequency Response. Frequency Bias may be calculated several ways:	BA	A	X		The information collected as described in R1 above includes the process (fixed or variable) calculation used by the Balancing Authority.
BAL-003-0a	R3.	Each Balancing Authority shall operate its Automatic Generation Control (AGC) on Tie Line Frequency Bias, unless such operation is adverse to system or Interconnection reliability. <i>See Standard for Approved Interpretation of R3 for WECC WATEC Procedure</i>	BA		X		This requirement is reported by the BA by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC.
BAL-003-0a	R4.	Balancing Authorities that use Dynamic Scheduling or Pseudo-ties for jointly owned units shall reflect their respective share of the unit governor droop response in their respective Frequency Bias Setting.	BA		X		
BAL-003-0a	R5.	Balancing Authorities that serve native load shall have a monthly average Frequency Bias Setting that is at least 1% of the Balancing Authority's estimated yearly peak demand per 0.1 Hz change.	BA		X		
BAL-003-0a	R6.	A Balancing Authority that is performing Overlap Regulation Service shall increase its Frequency Bias Setting to match the frequency response of the entire area being controlled. A Balancing Authority shall not change its Frequency Bias Setting when performing Supplemental Regulation Service.	BA		X		
BAL-004-0	R1.	Only a Reliability Coordinator shall be eligible to act as Interconnection Time Monitor. A single Reliability Coordinator in each Interconnection shall be designated by the NERC Operating Committee to serve as Interconnection Time Monitor.	RC		X		This requirement is reported by the RC by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC.
BAL-004-0	R2.	The Interconnection Time Monitor shall monitor Time Error and shall initiate or terminate corrective action orders in accordance with the NAESB Time Error Correction Procedure.	RC		X		



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BAL-004-0	R3.	Each Balancing Authority, when requested, shall participate in a Time Error Correction by one of the following methods:	BA		X		This requirement is reported by the BA by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC.
BAL-004-0	R4.	Any Reliability Coordinator in an Interconnection shall have the authority to request the Interconnection Time Monitor to terminate a Time Error Correction in progress, or a scheduled Time Error Correction that has not begun, for reliability considerations.	RC		X		This requirement is reported by the RC by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC.
BAL-006-1	R1.	Each Balancing Authority shall calculate and record hourly Inadvertent Interchange.	BA	M	X		The requirements are monitored through the monthly self-certification process. The applicable Balancing Authorities in the MRO include DPC, LES, MEC, MISO, MPW, NPPD, OPPD, WAPA, SPC, MH. The MRO will notify the applicable Balancing Authorities of the monthly self-certification process for this standard by the 15th of each month requesting they self-certify compliance with these requirements for the previous month. Once the self-certification data has been submitted for the monthly submittal, the MRO Compliance staff will review the documentation and verify compliance. In addition, deficiencies with the requirements are to be reported by the applicable entity(s) by exception when they occur. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
BAL-006-1	R2.	Each Balancing Authority shall include all AC tie lines that connect to its Adjacent Balancing Authority Areas in its Inadvertent Interchange account. The Balancing Authority shall take into account interchange served by jointly owned generators.	BA	M	X		
BAL-006-1	R3.	Each Balancing Authority shall ensure all of its Balancing Authority Area interconnection points are equipped with common megawatt-hour meters, with readings provided hourly to the control centers of Adjacent Balancing Authorities.	BA	M	X		
BAL-006-1	R4.	Adjacent Balancing Authority Areas shall operate to a common Net Interchange Schedule and Actual Net Interchange value and shall record these hourly quantities, with like values but opposite sign. Each Balancing Authority shall compute its Inadvertent Interchange based on the following:	BA	M	X		
BAL-006-1	R5.	Adjacent Balancing Authorities that cannot mutually agree upon their respective Net Actual Interchange or Net Scheduled Interchange quantities by the 15th calendar day of the following month shall, for the purposes of dispute resolution, submit a report to their respective Regional Reliability Organization Survey Contact. The report shall describe the nature and the cause of the dispute as well as a process for correcting the discrepancy.	BA	M	X		



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CRITICAL INFRASTRUCTURE PROTECTION							
CIP-002-1	R1.	Critical Asset Identification Method — The Responsible Entity shall identify and document a risk-based assessment methodology to use to identify its Critical Assets.	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	NERC is requiring the Regional Entities perform spot checks for 13 requirements in CIP-002-1 through CIP-009-1 that will be classified as "Auditably Compliant" for specific functions identified in Table 1 of the Implementation Plan for Cyber Security Standards CIP-002-1 through CIP-009-1. These spot checks will begin July 1, 2009 going forward into 2010 until all applicable Registered Entities in Table 1 of the Implementation Plan for Cyber Security Standards CIP-002-1 through CIP-009-1 are assessed for compliance. These spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.
CIP-002-1	R2.	Critical Asset Identification — The Responsible Entity shall develop a list of its identified Critical Assets determined through an annual application of the risk-based assessment methodology required in R1. The Responsible Entity shall review this list at least annually, and update it as necessary.	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-002-1	R3.	Critical Cyber Asset Identification — Using the list of Critical Assets developed pursuant to Requirement R2, the Responsible Entity shall develop a list of associated Critical Cyber Assets essential to the operation of the Critical Asset. Examples at control centers and backup control centers include systems and facilities at master and remote sites that provide monitoring and control, automatic generation control, real-time power system modeling, and real-time interutility data exchange. The Responsible Entity shall review this list at least annually, and update it as necessary. For the purpose of Standard CIP-002, Critical Cyber Assets are further qualified to be those having at least one of the following characteristics:	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-003-1	R1.	Cyber Security Policy — The Responsible Entity shall document and implement a cyber security policy that represents management's commitment and ability to secure its Critical Cyber Assets. The Responsible Entity shall, at minimum, ensure the following:	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-003-1	R2.	Leadership — The Responsible Entity shall assign a senior manager with overall responsibility for leading and managing the entity's implementation of, and adherence to, Standards CIP-002 through CIP-009	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-003-1	R3.	Exceptions — Instances where the Responsible Entity cannot conform to its cyber security policy must be documented as exceptions and authorized by the senior manager or delegate(s).	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	



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CIP-004-1	R2.	Training — The Responsible Entity shall establish, maintain, and document an annual cyber security training program for personnel having authorized cyber or authorized unescorted physical access to Critical Cyber Assets, and review the program annually and update as necessary.	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	<p>NERC is requiring the Regional Entities perform spot checks for 13 requirements in CIP-002-1 through CIP-009-1 that will be classified as "Auditably Compliant" for specific functions identified in Table 1 of the Implementation Plan for Cyber Security Standards CIP-002-1 through CIP-009-1. These spot checks will begin July 1, 2009 going forward into 2010 until all applicable Registered Entities in Table 1 of the Implementation Plan for Cyber Security Standards CIP-002-1 through CIP-009-1 are assessed for compliance. These spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.</p>
CIP-004-1	R3.	Personnel Risk Assessment —The Responsible Entity shall have a documented personnel risk assessment program, in accordance with federal, state, provincial, and local laws, and subject to existing collective bargaining unit agreements, for personnel having authorized cyber or authorized unescorted physical access. A personnel risk assessment shall be conducted pursuant to that program within thirty days of such personnel being granted such access. Such program shall at a minimum include:	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-004-1	R4.	Access — The Responsible Entity shall maintain list(s) of personnel with authorized cyber or authorized unescorted physical access to Critical Cyber Assets, including their specific electronic and physical access rights to Critical Cyber Assets.	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-007-1	R1.	Test Procedures — The Responsible Entity shall ensure that new Cyber Assets and significant changes to existing Cyber Assets within the Electronic Security Perimeter do not adversely affect existing cyber security controls. For purposes of Standard CIP-007, a significant change shall, at a minimum, include implementation of security patches, cumulative service packs, vendor releases, and version upgrades of operating systems, applications, database platforms, or other third-party software or firmware.	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-008-1	R1.	Cyber Security Incident Response Plan — The Responsible Entity shall develop and maintain a Cyber Security Incident response plan. The Cyber Security Incident Response plan shall address, at a minimum, the following:	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-009-1	R1.	Recovery Plans — The Responsible Entity shall create and annually review recovery plan(s) for Critical Cyber Assets. The recovery plan(s) shall address at a minimum the following:	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	
CIP-009-1	R2.	Exercises — The recovery plan(s) shall be exercised at least annually. An exercise of the recovery plan(s) can range from a paper drill, to a full operational exercise, to recovery from an actual incident.	BA, GO, GOP, IA, LSE, RC, RRO, TO, TOP, TSP, NERC See Implementation Table			Beginning July 1, 2009	



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EMERGENCY PREPAREDNESS AND OPERATIONS							
EOP-002-2	R9.	When a Transmission Service Provider expects to elevate the transmission service priority of an Interchange Transaction from Priority 6 (Network Integration Transmission Service from Non-designated Resources) to Priority 7 (Network Integration Transmission Service from designated Network Resources) as permitted in its transmission tariff (See Attachment 1-IRO-006-0 "Transmission Loading Relief Procedure" for explanation of Transmission Service Priorities): The Reliability Coordinator shall use EEA 1 to forecast the change of the priority of transmission service of an Interchange Transaction on the system from Priority 6 to Priority 7; The Reliability Coordinator shall use EEA 2 to announce the change of the priority of transmission service of an Interchange Transaction on the system from Priority 6 to Priority 7.	LSE, RC		X		The requirements are reported by the applicable entity(s) by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
EOP-004-1	R2.	A Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator or Load-Serving Entity shall promptly analyze Bulk Electric System disturbances on its system or facilities.	BA, GOP, LSE, RC, TOP		X		
EOP-004-1	R3.	A Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator or Load-Serving Entity experiencing a reportable incident shall provide a preliminary written report to its Regional Reliability Organization and NERC.	BA, GOP, LSE, RC, TOP		X		
EOP-005-1	R11.	Following a disturbance in which one or more areas of the Bulk Electric System become isolated or blacked out, the affected Transmission Operators and Balancing Authorities shall begin immediately to return the Bulk Electric System to normal.	BA, TOP		X		
EOP-006-1	R1.	Each Reliability Coordinator shall be aware of the restoration plan of each Transmission Operator in its Reliability Coordinator Area in accordance with NERC and regional requirements.	RC			X	The requirements are monitored through the spot check process. The MRO will notify the Registered Entity that a spot check has been initiated and allow at least twenty days for the entity to upload documentation and comments into the CDMS. Spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.
EOP-006-1	R3.	The Reliability Coordinator shall have a Reliability Coordinator Area restoration plan that provides coordination between individual Transmission Operator restoration plans and that ensures reliability is maintained during system restoration events.	RC			X	



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EOP-006-1	R6.	The Reliability Coordinator shall take actions to restore normal operations once an operating emergency has been mitigated in accordance with its restoration plan.	RC		X		This requirement is reported by the RC by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
EOP-009-0	R1.	The Generator Operator of each blackstart generating unit shall test the startup and operation of each system blackstart generating unit identified in the BCP as required in the Regional BCP (Reliability Standard EOP-007-0_R1). Testing records shall include the dates of the tests, the duration of the tests, and an indication of whether the tests met Regional BCP requirements.	GOP			X	The requirements are monitored through the spot check process. The MRO will notify the Registered Entity that a spot check has been initiated and allow at least twenty days for the entity to upload documentation and comments into the CDMS.
EOP-009-0	R2.	The Generator Owner or Generator Operator shall provide documentation of the test results of the startup and operation of each blackstart generating unit to the Regional Reliability Organizations and upon request to NERC.	GO, GOP			X	Spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.
FACILITIES DESIGN, CONNECTIONS AND MAINTENANCE							
FAC-003-1	R1.	The Transmission owner shall prepare, and keep current, a formal transmission vegetation management (TVM). The TVMP shall include the Transmission Owner's objectives, practices, approved procedures, and work Specifications. 1. ANSI A300, Tree Care Operations – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices, while not a requirement of this standard, is considered to be an industry best practice.	TO	Q			The requirements are monitored on a continuous basis and through the quarterly self-certification process. Category 1 and 2 outages are to be reported within 48-hours from the time in which the alleged violation was verified by the Registrant, and by following the MRO Vegetation Outage Procedure and self-reported via CMDS. The procedure can be found on the MRO Compliance web site. In addition, the MRO will notify the applicable Transmission Owners of a quarterly self-certification process for this standard requesting to self-certify by the 15th of the month following the end of a quarter and reporting for the previous quarter. Once the self-certification data has been submitted for the quarterly submittal, the MRO Compliance staff will review the documentation, verify compliance and report to NERC.
FAC-003-1	R2.	The Transmission Owner shall create and implement an annual plan for vegetation management work to ensure the reliability of the system. The plan shall describe the methods used, such as manual clearing, mechanical clearing, herbicide treatment, or other actions. The plan should be flexible enough to adjust to changing conditions, taking into consideration anticipated growth of vegetation and all other environmental factors that may have an impact on the reliability of the transmission systems. Adjustments to the plan shall be documented as they occur. The plan should take into consideration the time required to obtain permissions or permits from landowners or regulatory authorities. Each Transmission Owner shall have systems and procedures for documenting and tracking the planned vegetation management work and ensuring that the vegetation management work was completed according to work specifications.	TO	Q			
FAC-003-1	R3.	The Transmission Owner shall report quarterly to its RRO, or the RRO's designee, sustained transmission line outages determined by the Transmission Owner to have been caused by vegetation.	TO	Q			



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FAC-013-1	R1.	The Reliability Coordinator and Planning Authority shall each establish a set of inter-regional and intra-regional Transfer Capabilities that is consistent with its current Transfer Capability Methodology.	PA, RC			X	The requirements are monitored through the spot check process. The MRO will notify the Registered Entity that a spot check has been initiated and allow at least twenty days for the entity to upload documentation and comments into the CDMS. Spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.
FAC-013-1	R2.	The Reliability Coordinator and Planning Authority shall each provide its inter-regional and intra-regional Transfer Capabilities to those entities that have a reliability-related need for such Transfer Capabilities and make a written request that includes a schedule for delivery of such Transfer Capabilities as follows:	PA, RC			X	
INTERCHANGE SCHEDULING AND COORDINATION							
INT-001-3	R1.	The Load-Serving, Purchasing-Selling Entity shall ensure that Arranged Interchange is submitted to the Interchange Authority for:	PSE		X		The requirements are reported by the applicable entity(s) by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
INT-001-3	R2.	The Sink Balancing Authority shall ensure that Arranged Interchange is submitted to the Interchange Authority:	BA		X		
INT-003-2	R1.	Each Receiving Balancing Authority shall confirm Interchange Schedules with the Sending Balancing Authority prior to implementation in the Balancing Authority's ACE equation.	BA		X		
INT-004-2	R1.	At such time as the reliability event allows for the reloading of the transaction, the entity that initiated the curtailment shall release the limit on the Interchange Transaction tag to allow reloading the transaction and shall communicate the release of the limit to the Sink Balancing Authority.	BA, PSE, RC, TOP		X		
INT-004-2	R2.	The Purchasing-Selling Entity responsible for tagging a Dynamic Interchange Schedule shall ensure the tag is updated for the next available scheduling hour and future hours when any one of the following occurs:	PSE		X		



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INTERCONNECTION RELIABILITY OPERATIONS AND COORDINATION							
IRO-004-1	R1.	Each Reliability Coordinator shall conduct next-day reliability analyses for its Reliability Coordinator Area to ensure that the Bulk Electric System can be operated reliably in anticipated normal and Contingency event conditions. The Reliability Coordinator shall conduct Contingency analysis studies to identify potential interface and other SOL and IROL violations, including overloaded transmission lines and transformers, voltage and stability limits, etc.	RC		X		The requirements are reported by the applicable entity(s) by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
IRO-004-1	R2.	Each Reliability Coordinator shall pay particular attention to parallel flows to ensure one Reliability Coordinator Area does not place an unacceptable or undue Burden on an adjacent Reliability Coordinator Area.	RC		X		
IRO-004-1	R3.	Each Reliability Coordinator shall, in conjunction with its Transmission Operators and Balancing Authorities, develop action plans that may be required, including reconfiguration of the transmission system, re-dispatching of generation, reduction or curtailment of Interchange Transactions, or reducing load to return transmission loading to within acceptable SOLs or IROLs.	BA, RC, TOP		X		
IRO-004-1	R4.	Each Transmission Operator, Balancing Authority, Transmission Owner, Generator Owner, Generator Operator, and Load-Serving Entity in the Reliability Coordinator Area shall provide information required for system studies, such as critical facility status, Load, generation, operating reserve projections, and known Interchange Transactions. This information shall be available by 1200 Central Standard Time for the Eastern Interconnection and 1200 Pacific Standard Time for the Western Interconnection.	BA, GO, GOP, LSE, TO, TOP		X		
IRO-004-1	R5.	Each Reliability Coordinator shall share the results of its system studies, when conditions warrant or upon request, with other Reliability Coordinators and with Transmission Operators, Balancing Authorities, and Transmission Service Providers within its Reliability Coordinator Area. The Reliability Coordinator shall make study results available no later than 1500 Central Standard Time for the Eastern Interconnection and 1500 Pacific Standard Time for the Western Interconnection, unless circumstances warrant otherwise.	RC		X		
IRO-004-1	R6.	If the results of these studies indicate potential SOL or IROL violations, the Reliability Coordinator shall direct its Transmission Operators, Balancing Authorities and Transmission Service Providers to take any necessary action the Reliability Coordinator deems appropriate to address the potential SOL or IROL violation.	RC		X		
IRO-004-1	R7.	Each Transmission Operator, Balancing Authority, and Transmission Service Provider shall comply with the directives of its Reliability Coordinator based on the next day assessments in the same manner in which it would comply during real time operating events.	BA, TOP, TSP		X		



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IRO-014-1	R1.	The Reliability Coordinator shall have Operating Procedures, Processes, or Plans in place for activities that require notification, exchange of information or coordination of actions with one or more other Reliability Coordinators to support Interconnection reliability. These Operating Procedures, Processes, or Plans shall address Scenarios that affect other Reliability Coordinator Areas as well as those developed in coordination with other Reliability Coordinators.	RC			X	<p>The requirements are monitored through the spot check process. The MRO will notify the Registered Entity that a spot check has been initiated and allow at least twenty days for the entity to upload documentation and comments into the CDMS.</p> <p>Spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.</p>
IRO-014-1	R2.	Each Reliability Coordinator's Operating Procedure, Process, or Plan that requires one or more other Reliability Coordinators to take action (e.g., make notifications, exchange information, or coordinate actions) shall be:	RC			X	
IRO-014-1	R3.	A Reliability Coordinator's Operating Procedures, Processes, or Plans developed to support a Reliability Coordinator-to-Reliability Coordinator Operating Procedure, Process, or Plan shall include:	RC			X	
IRO-014-1	R4.	Each of the Operating Procedures, Processes, and Plans addressed in Reliability Standard IRO-014 Requirement 1 and Requirement 3 shall:	RC			X	
IRO-015-1	R1.	The Reliability Coordinator shall follow its Operating Procedures, Processes, or Plans for making notifications and exchanging reliability-related information with other Reliability Coordinators.	RC		X		<p>The requirements are reported by the applicable entity by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.</p>
IRO-015-1	R2.	The Reliability Coordinator shall participate in agreed upon conference calls and other communication forums with adjacent Reliability Coordinators.	RC		X		
IRO-015-1	R3.	The Reliability Coordinator shall provide reliability-related information as requested by other Reliability Coordinators.	RC		X		
IRO-016-1	R1.	The Reliability Coordinator that identifies a potential, expected, or actual problem that requires the actions of one or more other Reliability Coordinators shall contact the other Reliability Coordinator(s) to confirm that there is a problem and then discuss options and decide upon a solution to prevent or resolve the identified problem.	RC		X		<p>The requirements are reported by the applicable entity by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.</p>
IRO-016-1	R2.	The Reliability Coordinator shall document (via operator logs or other data sources) its actions taken for either the event or for the disagreement on the problem(s) or for both.	RC		X		
PERSONNEL PERFORMANCE, TRAINING AND QUALIFICATIONS							



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PER-003-0	R1.	Each Transmission Operator, Balancing Authority, and Reliability Coordinator shall staff all operating positions that meet both of the following criteria with personnel that are NERC-certified for the applicable functions:	BA, RC, TOP		X		The requirement is monitored on a continuous basis and through the monthly self-certification process. Registered Entities are to self-report through the CMDS tool. In addition, the MRO will notify the applicable entities of a monthly self-certification for this standard requesting to self-certify by the 15th of the month following the end of the previous month. Once the self-certification data has been submitted for the monthly submittal, the MRO Compliance staff reviews the documentation to verify compliance. All alleged violations are reported to NERC.
PROTECTION AND CONTROL							
PRC-004-1	R1.	The Transmission Owner and any Distribution Provider that owns a transmission Protection System shall each analyze its transmission Protection System Misoperations and shall develop and implement a Corrective Action Plan to avoid future Misoperations of a similar nature according to the Regional Reliability Organization's procedures developed for Reliability Standard PRC-003 Requirement 1.	DP, GO, TO	X			Information pertaining to transmission protection system misoperations is submitted by the DP, GO, and TO to the MRO Reliability Assessment department on a quarterly basis. The MRO Reliability Assessment staff provide copies of this information to the MRO Compliance department. The MRO provides guidance pertaining to acceptable processes to be used for reporting, analyzing, and mitigating transmission and generator protection system misoperations. This information is located in the MRO Manual and can be found on the MRO web site. However, this information is provided for "guidance" only. The Transmission Owner, and any Distribution Provider that owns a transmission protection system is responsible for having processes in place for monitoring, analyzing, and reporting misoperations.
PRC-010-0	R1.	The Load-Serving Entity, Transmission Owner, Transmission Operator, and Distribution Provider that owns or operates a UVLS program shall periodically (at least every five years or as required by changes in system conditions) conduct and document an assessment of the effectiveness of the UVLS program. This assessment shall be conducted with the associated Transmission Planner(s) and Planning Authority(ies).	DP, LSE, TO, TOP			X	The requirements are monitored through the spot check process. The MRO will notify the Registered Entity that a spot check has been initiated and allow at least twenty days for the entity to upload documentation and comments into the CDMS.
PRC-010-0	R2.	The Load-Serving Entity, Transmission Owner, Transmission Operator, and Distribution Provider that owns or operates a UVLS program shall provide documentation of its current UVLS program assessment to its Regional Reliability Organization and NERC on request (30 calendar days).	DP, LSE, TO, TOP			X	Spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.
PRC-011-0	R1.	The Transmission Owner and Distribution Provider that owns a UVLS system shall have a UVLS equipment maintenance and testing program in place. This program shall include:	DP, TO			X	



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PRC-011-0	R2.	The Transmission Owner and Distribution Provider that owns a UVLS system shall provide documentation of its UVLS equipment maintenance and testing program and the implementation of that UVLS equipment maintenance and testing program to its Regional Reliability Organization and NERC on request (within 30 calendar days).	DP, TO			X	
PRC-016-0	R3.	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall provide documentation of the misoperation analyses and the corrective action plans to its Regional Reliability Organization and NERC on request (within 90 calendar days).	DP, GO, TO	X			Information pertaining to special protection system misoperations is submitted by the DP, GO, and TO to the MRO Reliability Assessment department on a quarterly basis. The MRO Reliability Assessment staff provide copies of this information to the MRO Compliance department. The MRO provides guidance pertaining to acceptable processes to be used for reporting, analyzing, and mitigating special protection system misoperations. This information is located in the MRO Manual and can be found on the MRO web site. However, this information is provided for "guidance" only. The Transmission Owner, Generator Owner, and any Distribution Provider that owns a special protection system is responsible for having processes in place for monitoring, analyzing, and reporting
PRC-021-1	R1.	Each Transmission Owner and Distribution Provider that owns a UVLS program to mitigate the risk of voltage collapse or voltage instability in the BES shall annually update its UVLS data to support the Regional UVLS program database. The following data shall be provided to the Regional Reliability Organization for each installed UVLS system:	DP, TO	A			The requirements are monitored through a data submittal process. Data reviewed by the MRO Compliance staff for assessing and determining compliance is collected by the MRO Reliability Assessment staff on an annual basis.
PRC-021-1	R2.	Each Transmission Owner and Distribution Provider that owns a UVLS program shall provide its UVLS program data to the Regional Reliability Organization within 30 calendar days of a request.	DP, TO	A			
TRANSMISSION OPERATIONS							
TOP-003-0	R1.	Generator Operators and Transmission Operators shall provide planned outage information.	GOP, TOP, RC			X	The requirements are monitored through the spot check process. The MRO will notify the Registered Entity that a spot check has been initiated and allow at least twenty days for the entity to upload documentation and comments into the CDMS. Spot checks can occur during a regularly scheduled compliance audit or as a separate activity. The spot check is considered to be a "mini-audit". The MRO will utilize the processes used for a regular audit with a reduced "scope" where specific Standards and / or Requirements will be identified and assessed for compliance. Registrants will receive a "spot check" notice from the MRO similar to the "audit" notice.
TOP-003-0	R2.	Each Transmission Operator, Balancing Authority, and Generator Operator shall plan and coordinate scheduled outages of system voltage regulating equipment, such as automatic voltage regulators on generators, supplementary excitation control, synchronous condensers, shunt and series capacitors, reactors, etc., among affected Balancing Authorities and Transmission Operators as required.	BA, GOP, TOP			X	
TOP-003-0	R3.	Each Transmission Operator, Balancing Authority, and Generator Operator shall plan and coordinate scheduled outages of telemetering and control equipment and associated communication channels between the affected areas.	BA, GOP, TOP			X	
TOP-003-0	R4.	Each Reliability Coordinator shall resolve any scheduling of potential reliability conflicts.	RC			X	



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TOP-005-1	R1.	Each Transmission Operator and Balancing Authority shall provide its Reliability Coordinator with the operating data that the Reliability Coordinator requires to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	BA, TOP, RC		X		The requirements are reported by the applicable entity by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
TOP-005-1	R2.	As a condition of receiving data from the Interregional Security Network (ISN), each ISN data recipient shall sign the NERC Confidentiality Agreement for "Electric System Reliability Data."	NERC_Net Users		X		
TOP-005-1	R3.	Upon request, each Balancing Authority and Transmission Operator shall provide to other Balancing Authorities and Transmission Operators with immediate responsibility for operational reliability, the operating data that are necessary to allow these Balancing Authorities and Transmission Operators to perform operational reliability assessments and to coordinate reliable operations. Balancing Authorities and Transmission Operators shall provide the types of data as listed in Attachment 1-TOP-005-0 "Electric System Reliability Data," unless otherwise agreed to by the Balancing Authorities and Transmission Operators with immediate responsibility for operational reliability.	BA, TOP		X		
TOP-005-1	R4.	Each Purchasing-Selling Entity shall provide information as requested by its Host Balancing Authorities and Transmission Operators to enable them to conduct operational reliability assessments and coordinate reliable operations.	PSE		X		
TOP-007-0	R1.	A Transmission Operator shall inform its Reliability Coordinator when an IROL or SOL has been exceeded and the actions being taken to return the system to within limits.	TOP		X		
TOP-007-0	R2.	Following a Contingency or other event that results in an IROL violation, the Transmission Operator shall return its transmission system to within IROL as soon as possible, but not longer than 30 minutes.	TOP		X		
TOP-007-0	R3.	A Transmission Operator shall take all appropriate actions up to and including shedding firm load, or directing the shedding of firm load, in order to comply with Requirement R 2.	TOP		X		
TOP-007-0	R4.	The Reliability Coordinator shall evaluate actions taken to address an IROL or SOL violation and, if the actions taken are not appropriate or sufficient, direct actions required to return the system to within limits.	RC		X		



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TRANSMISSION PLANNING							
TPL-001-0	R3.	The Planning Authority and Transmission Planner shall each document the results of these reliability assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.	PA, TP	A			The requirements are monitored through a data submittal process. Data reviewed by the MRO Compliance staff for assessing and determining compliance is collected by the MRO Reliability Assessment staff on an annual basis.
TPL-002-0	R3.	The Planning Authority and Transmission Planner shall each document the results of its Reliability Assessments and corrective plans and shall annually provide the results to its respective Regional Reliability Organization(s), as required by the Regional Reliability Organization.	PA, TP	A			
TPL-003-0	R3.	The Planning Authority and Transmission Planner shall each document the results of these Reliability Assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.	PA, TP	A			
TPL-004-0	R2.	The Planning Authority and Transmission Planner shall each document the results of its reliability assessments and shall annually provide the results to its entities' respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.	PA, TP	A			
VOLTAGE AND REACTIVE							
VAR-002-1a	R1.	The Generator Operator shall operate each generator connected to the interconnected transmission system in the automatic voltage control mode (automatic voltage regulator in service and controlling voltage) unless the Generator Operator has notified the Transmission Operator. <i>See Standard for Approved Interpretation of R1</i>	GOP		X		The requirements are reported by the applicable entity by exception. Registered Entities are to contact the MRO Compliance office in order to obtain a copy of the exception reporting form. The form can also be found on the MRO Compliance web site. The MRO Compliance office reviews the information submitted by exception and is subject to be reported to NERC. In addition, and if applicable, describe any corrective action taken.
VAR-002-1a	R2.	Unless exempted by the Transmission Operator, each Generator Operator shall maintain the generator voltage or Reactive Power output (within applicable Facility Ratings. [1] as directed by the Transmission Operator <i>See Standard for Approved Interpretation of R2</i>	GOP		X		
VAR-002-1a	R3.	Each Generator Operator shall notify its associated Transmission Operator as soon as practical, but within 30 minutes of any of the following:	GOP		X		
VAR-002-1a	R4.	The Generator Owner shall provide the following to its associated Transmission Operator and Transmission Planner within 30 calendar days of a request.	GO		X		
VAR-002-1a	R5.	After consultation with the Transmission Operator regarding necessary step-up transformer tap changes, the Generator Owner shall ensure that transformer tap positions are changed according to the specifications provided by the Transmission Operator, unless such action would violate safety, an equipment rating, a regulatory requirement, or a statutory requirement.	GO		X		