

The following errata change was made following the initial ballot:

- TOP-004, R6 — corrected the reference in all four VSLs from R6.6 to R6.4.

Proposed Violation Severity Levels for the TOP Series of Standards:

Index:

Standard Number TOP-001-1 Reliability Responsibilities and Authorities.....	2
Standard Number TOP-002-2 Normal Operations Planning	13
Standard Number TOP-003-0 Planned Outage Coordination	27
Standard Number TOP-004-2 Transmission Operations.....	33
Standard Number TOP-005-1 Operational Reliability Information	40
Standard Number TOP-006-1 Monitoring System Conditions	44
Standard Number TOP-007-0 Reporting SOL and IROL Violations.....	49
Standard Number TOP-008-1 Response to Transmission Limit Violations	55

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1	N/A	N/A	N/A	The Transmission Operator has no evidence that clear decision-making authority exists to assure reliability in its area or has failed to exercise this authority to alleviate operating emergencies.	
Revised R1	N/A	N/A	The Transmission Operator has no clear decision-making authority to ensure reliability in its area.	The Transmission Operator has failed to exercise specific authority to alleviate operating emergencies.	Added a High VSL. Revised wording of Severe VSL Minor wording change for clarity.
Original R2	N/A	N/A	N/A	The Transmission Operator failed to have evidence that it took immediate actions to alleviate operating emergencies including curtailing transmission service or energy schedules, operating equipment (e.g., generators, phase shifters, breakers), shedding firm load, etc.	
Revised R2	N/A	N/A	N/A	The Transmission Operator failed to have evidence that it took immediate actions to alleviate operating emergencies including curtailing transmission	No changes.

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				service or energy schedules, operating equipment (e.g., generators, phase shifters, breakers), shedding firm load, etc.	
Original R3	N/A	N/A	N/A	The responsible entity failed to comply with reliability directives issued by the Reliability Coordinator or the Transmission Operator (when applicable), when said directives would not have resulted in actions that would violate safety, equipment, regulatory or statutory requirements, or under circumstances that said directives would have resulted in actions that would violate safety, equipment, regulatory or statutory requirements the responsible entity failed to inform the Reliability Coordinator or Transmission Operator (when applicable) of the inability to perform the directive so that the Reliability Coordinator or	

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				Transmission Operator could implement alternate remedial actions.	
Revised R3	N/A	N/A	N/A	The responsible entity failed to comply with reliability directives issued by the Reliability Coordinator or the Transmission Operator (when applicable), when said directives would not have resulted in actions that would violate safety, equipment, regulatory or statutory requirements, or under circumstances that said directives would have resulted in actions that would violate safety, equipment, regulatory or statutory requirements the responsible entity failed to inform the Reliability Coordinator or Transmission Operator (when applicable) of the inability to perform the directive so that the Reliability Coordinator or Transmission Operator could implement alternate	No changes.

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				remedial actions.	
Original R4	N/A	N/A	N/A	The responsible entity failed to comply with all reliability directives issued by the Transmission Operator, including shedding firm load, when said directives would not have resulted in actions that would violate safety, equipment, regulatory or statutory requirements, or under circumstances when said directives would have violated safety, equipment, regulatory or statutory requirements, the responsible entity failed to immediately inform the Transmission Operator of the inability to perform the directive so that the Transmission Operator could implement alternate remedial actions.	
Revised R4	N/A	N/A	N/A	The responsible entity failed to comply with all reliability directives issued by the Transmission Operator, including	No changes.

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				shedding firm load, when said directives would not have resulted in actions that would violate safety, equipment, regulatory or statutory requirements, or under circumstances when said directives would have violated safety, equipment, regulatory or statutory requirements, the responsible entity failed to immediately inform the Transmission Operator of the inability to perform the directive so that the Transmission Operator could implement alternate remedial actions.	
Original R5	N/A	N/A	N/A	The Transmission Operator failed to inform its Reliability Coordinator and any other potentially affected Transmission Operators of real-time or anticipated emergency conditions, or failed to take actions to avoid, when possible, or mitigate the emergency	

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R5	N/A	The Transmission Operator failed to inform its Reliability Coordinator and any other potentially affected Transmission Operators of real-time or anticipated emergency conditions, but did take actions to avoid, when possible, or mitigate the emergency.	N/A	The Transmission Operator failed to inform its Reliability Coordinator and any other potentially affected Transmission Operators of real-time or anticipated emergency conditions, and failed to take actions to avoid, when possible, or mitigate the emergency.	Added a moderate VSL.
Original R6	N/A	N/A	N/A	The responsible entity failed to render all available emergency assistance to others as requested, after the requesting entity had implemented its comparable emergency procedures, when said assistance would not have resulted in actions that would violate safety, equipment, or regulatory or statutory requirements.	
Revised R6	N/A	N/A	N/A	The responsible entity failed to render all available emergency assistance to others as requested, after the requesting entity had implemented its	No changes.

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				comparable emergency procedures, when said assistance would not have resulted in actions that would violate safety, equipment, or regulatory or statutory requirements.	
Original R7	N/A	N/A	N/A	The responsible entity removed Bulk Electric System facilities from service under conditions other than those listed in TOP-001-1 R7.1 through R7.3 and removal of said facilities burdened a neighboring system.	
Revised R7	N/A	N/A	N/A	The responsible entity removed Bulk Electric System facilities from service and removal of said facilities burdened a neighboring system, without complying with the applicable requirements listed in R7.1 through R7.3.	Clarified language. Rolled up subrequirements into the primary requirement.
Original R7.1	The Generator Operator failed to notify and coordinate with the Transmission Operator, or the Transmission Operator	N/A	N/A	N/A	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	failed to notify the Reliability Coordinator and other affected Transmission Operators, and coordinate the impact of removing the Bulk Electric System facility.				
Revised R7.1	N/A	N/A	N/A	N/A	Rolled up into R1.
Original R7.2	The Transmission Operator failed to notify and coordinate with its Reliability Coordinator, or failed to notify other affected Transmission Operators, and coordinate the impact of removing the Bulk Electric System facility.	N/A	N/A	N/A	
Revised R7.2	N/A	N/A	N/A	N/A	Rolled up into R1.
Original R7.3	The Generator Operator failed to notify the Transmission Operator, or the Transmission Operator failed to notify its Reliability Coordinator and adjacent Transmission Operators during periods	N/A	N/A	N/A	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	when time did not permit such notifications and coordination, or when immediate action was required to prevent a hazard to the public, lengthy customer service interruption, or damage to facilities.				
Revised R7.3	N/A	N/A	N/A	N/A	Rolled up into R1.
Original R8	N/A	N/A	N/A	The responsible entity failed to take immediate actions to restore the Real and Reactive Power Balance during a system emergency, or the responsible entity failed to request emergency assistance from the Reliability Coordinator during periods when it was unable to restore the Real and Reactive Power Balance, or during periods when corrective actions or emergency assistance was not adequate to mitigate the Real and Reactive Power Balance, the responsible	

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				entity failed to implement firm load shedding.	
Revised R8	N/A	N/A	N/A	<p>The Responsible Entity <u>responsible entity</u> failed to take immediate actions to restore the Real and Reactive Power Balance during a system emergency.</p> <p>OR</p> <p>The <u>responsible entity</u> Responsible Entity failed to request emergency assistance from the Reliability Coordinator during a period when it was unable to restore the Real and Reactive Power Balance,</p> <p><u>OR</u></p> <p>or <u>During</u> a period when corrective actions or emergency assistance was not adequate to mitigate the Real and Reactive Power Balance, the responsible</p>	<p>VSL language was left unchanged but was reformatted for clarity.</p> <p><u>Changed “Responsible Entity” to “responsible entity.”</u></p>

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-001-1 Reliability Responsibilities and Authorities					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				entity failed to implement firm load shedding.	

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1	N/A	N/A	The responsible entity maintained a set of current plans that were designed to evaluate options and set procedures for reliable operation through a reasonable future time period, but failed utilize all available personnel and system equipment to implement these plans to ensure that interconnected system reliability will be maintained.	The responsible entity failed to maintain a set of current plans that were designed to evaluate options and set procedures for reliable operation through a reasonable future time period.	
Revised R1	N/A	N/A	The responsible entity maintained a set of current plans that were designed to evaluate options and set procedures for reliable operation through a reasonable future time period, but failed to utilize all available personnel and system equipment to implement these plans to ensure that interconnected system reliability would be maintained.	The responsible entity failed to maintain a set of current plans that were designed to evaluate options and set procedures for reliable operation through a reasonable future time period.	Fixed typographical errors.
Original R2	N/A	The responsible entity failed to ensure its	N/A	N/A	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
		operating personnel participated in the system planning and design study processes.			
Revised R2	N/A	N/A	N/A	The responsible entity failed to ensure its operating personnel participated in the system planning and design study processes.	Binary - changed to Severe.
Original R3.	N/A	The Load-Serving Entity or Generator Operator failed to coordinate (where confidentiality agreements allow) its seasonal operations with its Host Balancing Authority and Transmission Service Provider, or the Balancing Authority or Transmission Service Provider failed to coordinate its seasonal operations with its Transmission Operator.	N/A	The Load-Serving Entity or Generator Operator failed to coordinate (where confidentiality agreements allow) its current-day, next-day, and seasonal operations with its Host Balancing Authority and Transmission Service Provider, or the Balancing Authority or Transmission Service Provider failed to coordinate its current-day, next-day, and seasonal operations with its Transmission Operator.	
Revised R3.	N/A	<u>The responsible entity failed to coordinate (where confidentiality agreements allow) one of the following</u>	The responsible entity failed to coordinate (where confidentiality agreements allow) one-two of the	The responsible entity failed to coordinate (where confidentiality agreements allow) all three two or more	Modified VSLs to remain consistent with the requirement wording per guideline #3 and moved

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
		<u>three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies)</u> N/A	following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies).	of the following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies).	Moderate to High. <u>Provided a more graded VSL.</u>
Original R4.	N/A	The responsible entity failed to coordinate (where confidentiality agreements allow) its seasonal planning and operations with neighboring Balancing Authorities and Transmission Operators and with its Reliability Coordinator.	N/A	The responsible entity failed to coordinate (where confidentiality agreements allow) its current-day, next-day, and seasonal planning and operations with neighboring Balancing Authorities and Transmission Operators and with its Reliability Coordinator.	
Revised R4.		<u>The Rresponsible Entity did not failed to coordinate (where confidentiality agreements allow) one of the following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies)</u> N/A	<u>The Responsible responsible Entity-entity failed to coordinate (where confidentiality agreements allow) one-two of the following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies)</u>	<u>The Responsible responsible Entity-entity failed to coordinate (where confidentiality agreements allow) two or moreall three of the following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies)</u>	Modified VSLs to remain consistent with the requirement wording per guideline #3 and moved Moderate to High. <u>Changed “Responsible Entity” to “responsible entity.”</u> <u>Provided a more graded VSL.</u>
Original R5.	N/A	N/A	N/A	The responsible entity failed to plan to meet scheduled system configuration, generation	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				dispatch, interchange scheduling and demand patterns.	
Revised R5.	N/A	N/A	N/A	The responsible entity failed to plan to meet scheduled system configuration, generation dispatch, interchange scheduling and demand patterns.	No changes.
Original R6.	N/A	N/A	N/A	The responsible entity failed to plan to meet unscheduled changes in system configuration and generation dispatch (at a minimum N-1 Contingency planning) in accordance with NERC, Regional Reliability Organization, subregional, and local reliability requirements	
Revised R6.	N/A	N/A	N/A	The responsible entity failed to plan to meet unscheduled changes in system configuration and generation dispatch (at a minimum N-1 Contingency planning) in accordance with NERC, Regional Reliability Organization,	No changes.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				subregional, and local reliability requirements	
Original R7.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet capacity and energy reserve requirements, including the deliverability/capability for any single Contingency.	
Revised R7.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet capacity and energy reserve requirements, including the deliverability/capability for any single Contingency.	No changes.
Original R8.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet voltage and/or reactive limits, including the deliverability/capability for any single contingency.	
Revised R8.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet voltage and/or reactive limits, including the deliverability/capability for any single contingency.	No changes.
Original R9.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				Interchange Schedules and Ramps.	
Revised R9.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet Interchange Schedules and Ramps.	No changes.
Original R10.	N/A	N/A	N/A	The responsible entity failed to plan to meet all System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs).	
Revised R10.	N/A	N/A	N/A	The responsible entity failed to plan to meet all System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs).	No changes.
Original R11.	N/A	N/A	The Transmission Operator performed seasonal, next-day, and current-day Bulk Electric System studies, reflecting current system conditions, to determine SOLs, but failed to make the results of Bulk Electric System studies available to all of the Transmission Operators, Balancing	The Transmission Operator failed to perform seasonal, next-day, or current-day Bulk Electric System studies, reflecting current system conditions, to determine SOLs.	

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
			Authorities (subject confidentiality requirements), or to its Reliability Coordinator.		
Revised R11.	For common facilities, the Transmission Operator failed to utilize SOLs identical to those used by its neighboring Transmission Operators.	The Transmission Operator performed and updated the Bulk Electric System studies as necessary to reflect current system conditions but failed to make the results of Bulk Electric System studies available to the Transmission Operators, Balancing Authorities, (subject to confidentiality requirements), and to its Reliability Coordinator.	The Transmission Operator performed the required seasonal, next-day, and current-day Bulk Electric System studies to determine SOLs but failed to update the Bulk Electric System studies as necessary to reflect current system conditions.	The Transmission Operator failed to perform seasonal, next-day, and current-day Bulk Electric System studies to determine SOLs.	VSLs were rewritten to capture the multiple required actions in the language of the requirement.
Original R12.	N/A	N/A	N/A	The Transmission Service Provider failed to include known SOLs or IROLs within its area and neighboring areas in the determination of transfer capabilities, in accordance with filed tariffs and/or regional Total Transfer Capability and Available Transfer Capability calculation processes.	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R12.				The Transmission Service Provider failed to include known SOLs or IROLs within its area and neighboring areas in the determination of transfer capabilities, in accordance with filed tariffs and/or regional Total Transfer Capability and Available Transfer Capability calculation processes.	No changes.
Original R13.	N/A	N/A	N/A	The Generator Operator failed to perform generating real and reactive capability verification that included, among other variables, weather, ambient air and water conditions, and fuel quality and quantity, or failed to provide the results of generating real and reactive verifications Balancing Authority or Transmission Operator operating personnel, when requested.	
Revised R13.	N/A-	N/A-	At the request of the Balancing Authority or Transmission Operator, the	The Generator Operator <u>failed to perform generating real and reactive</u>	A moderate VSL was added and the wording of the VSLs was revised.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
			Generator Operator performed generating real and reactive capability verification that included, among other variables, weather, ambient air and water conditions, and fuel quality and quantity, but did not provide the information to the requester. N/A	capability verification that included, among other variables, weather, ambient air and water conditions, and fuel quality and quantity, or failed to provide the results of generating real and reactive verifications Balancing Authority or Transmission Operator operating personnel, when requested. At the request of the Balancing Authority or Transmission Operator, the Generator Operator failed to perform generating real and reactive capability verification that included, among other variables, weather, ambient air and water conditions, and fuel quality and quantity.	—Reverted to originally proposed VSLs.
Original R14.	N/A	N/A	N/A	The Generator Operator failed to notify their Balancing Authority and Transmission Operator of changes in capabilities and characteristics.	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R14.	N/A	N/A	N/A	The Generator Operator failed to notify its Balancing Authority or Transmission Operator of changes in capabilities and characteristics including real output capabilities.	Rolled up subrequirements into the primary requirement.
Original R14.1.	The Generator Operator failed to notify its Balancing Authority or Transmission Operator of changes in real output capabilities.	N/A	N/A	N/A	
Revised R14.1.	N/A	N/A	N/A	N/A	Rolled up into R14.
Original R14.2.					Sub-requirement 14.2 has been retired- August 2007
Revised R14.2.					N/A
Original R15.	N/A	N/A	N/A	The Generation Operator failed to provide, at the request of the Balancing Authority or Transmission Operator, a forecast of expected real power output to assist in operations planning (e.g., a seven-day forecast of real output).	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R15.	N/A	N/A	N/A	The Generator Operator failed to provide, at the request of the Balancing Authority or Transmission Operator, a forecast of expected real power output to assist in operations planning (e.g., a seven-day forecast of real output).	Corrected typographical error.
Original R16.	N/A	N/A	N/A	The Transmission Operator failed to notify their Reliability Coordinator and Balancing Authority of changes in capabilities and characteristics, within the terms and conditions of standards of conduct and confidentiality agreements.	
Revised R16.	N/A	N/A	Subject to standards of conduct and confidentiality agreements, the Transmission Operator <u>intentionally</u> failed to notify its Reliability Coordinator and Balancing Authority of changes in transmission facility status (R 16.1) <u>OR</u>	Subject to standards of conduct and confidentiality agreements, the Transmission Operator <u>intentionally</u> failed to notify its Reliability Coordinator and Balancing Authority of changes in transmission facility status (R 16.1) and changes in transmission facility rating (R 16.2).	Rolled up subrequirements into the primary requirement. <u>Added the word “intentionally” to better align with the requirement language.</u>

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
			Subject to standards of conduct and confidentiality agreements, the Transmission Operator <u>intentionally</u> failed to notify its Reliability Coordinator and Balancing Authority of changes in transmission facility rating (R16.2).		
Original R16.1.	N/A	The Transmission Operator failed to notify their Reliability Coordinator and Balancing Authority of changes in transmission facility status, within the terms and conditions of standards of conduct and confidentiality agreements.	N/A	N/A	
Revised R16.1.	N/A	N/A	N/A	N/A	Rolled up into R16.
Original R16.2.	N/A	The Transmission Operator failed to notify their Reliability Coordinator and Balancing Authority of changes in transmission facility rating, within the terms and conditions of	N/A	N/A	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
		standards of conduct and confidentiality agreements.			
Revised R16.2.	N/A	N/A	N/A	N/A	Rolled up into R16.
Original R17.	N/A	N/A	N/A	The responsible entity failed to communicate the information described in the requirements R1 to R16 above to their Reliability Coordinator.	
Revised R17.	N/A	N/A	N/A	The responsible entity intentionally delayed communication of the information described in the requirements R1 to R16 to its Reliability Coordinator.	Added word "intentionally" to the Severe VSL and changed language to mirror the language of the requirement.
Original R18.	The responsible entity failed to use uniform line identifiers when referring to transmission facilities of an interconnected network.	N/A	N/A	N/A	
Revised R18.	N/A	N/A	N/A	The responsible entity failed to use uniform line identifiers when referring to transmission facilities of an interconnected network.	Binary – changed to Severe.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-002-2 Normal Operations Planning					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R19.	N/A	N/A	N/A	The responsible entity failed to maintain accurate computer models utilized for analyzing and planning system operations.	
Revised R19.	N/A	N/A	N/A	The responsible entity failed to maintain accurate computer models utilized for analyzing and planning system operations.	No changes.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-003-0 Planned Outage Coordination					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1.					
Revised R1.	N/A	N/A	N/A	N/A	There is no VRF for this requirement therefore no VSL is assigned.
Original R1.1.	N/A	N/A	N/A	The Generator Operator failed to provide outage information, in accordance with its Transmission Operators established outage reporting requirements, to its Transmission Operator for scheduled generator outages planned for the next day (any foreseen outages of a generator greater than 50MW.	
Revised R1.1.	N/A	N/A		The Generator Operator failed to provide outage information, in accordance with its Transmission Operator's established outage reporting requirements, to its Transmission Operator for scheduled generator outages planned for the next day (any foreseen	Added a second condition to the Severe VSL to match the language of the requirement.

Standard Number TOP-003-0 Planned Outage Coordination					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				<p>outage of a generator greater than 50 MW).</p> <p>OR</p> <p>The Transmission Operator failed to establish the outage reporting requirements.</p>	
Original R1.2.	N/A	N/A	N/A	<p>The Transmission Operator failed to provide outage information, in accordance with its Reliability Coordinators established outage reporting requirement, to its Reliability Coordinator, and to affected Balancing Authorities and Transmission Operators for scheduled generator and bulk transmission outages planned for the next day (any foreseen outage of a transmission line or transformer greater than 100 kV or generator greater than 50 MW) that may collectively cause or contribute to an SOL or IROL violation or a</p>	

Standard Number TOP-003-0 Planned Outage Coordination					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				regional operating area limitation.	
Revised R1.2.	<u>N/A-</u>	<u>N/A-</u>	<u>N/A</u>	<p>The Transmission Operator failed to provide outage information, in accordance with its Reliability Coordinators established outage reporting requirement, to its Reliability Coordinator, and to affected Balancing Authorities and Transmission Operators for scheduled generator and bulk transmission outages planned for the next day (any foreseen outage of a transmission line or transformer greater than 100 kV or generator greater than 50 MW) that may collectively cause or contribute to an SOL or IROL violation or a regional operating area limitation.</p> <p>OR</p> <p>The Reliability Coordinator</p>	Added a second condition to the Severe VSL to match the language of the requirement.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-003-0 Planned Outage Coordination					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				failed to establish the outage reporting requirements.	
Original R1.3.	The responsible entity failed to provide the information by 1200 Central Standard Time for the Eastern Interconnection and 1200 Pacific Standard Time for the Western Interconnection.	N/A	N/A	N/A	
Revised R1.3.	The responsible entity failed to provide the information by 1200 Central Standard Time for the Eastern Interconnection or 1200 Pacific Standard Time for the Western Interconnection but did provide the information by 1230 for the applicable interconnection.	The responsible entity failed to provide the information by 1230 Central Standard Time for the Eastern Interconnection or 1230 Pacific Standard Time for the Western Interconnection but did provide the information by 1300 for the applicable interconnection.	The responsible entity failed to provide the information by 1300 Central Standard Time for the Eastern Interconnection or 1300 Pacific Standard Time for the Western Interconnection but did provide the information by 1330 for the applicable interconnection.	The responsible entity failed to provide the information by 1330 Central Standard Time for the Eastern Interconnection or 1330 Pacific Standard Time for the Western Interconnection.	VSLs were changed to gradated approach based on how late the information is provided. VSLs based upon 1/2 hour increments.
Original R2.	N/A	N/A	N/A	The responsible entity failed to plan or coordinate scheduled outages of system voltage regulating equipment, such as automatic voltage	

Standard Number TOP-003-0 Planned Outage Coordination					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				regulators on generators, supplementary excitation control, synchronous condensers, shunt and series capacitors, reactors, etc., among affected Balancing Authorities and Transmission Operators when required.	
Revised R2.	N/A	N/A	NA/	The responsible entity failed to plan or 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 when required.	No changes.
Original R3.	The responsible entity planned and coordinated scheduled outages of telemetering and control equipment and associated communication channels with its Reliability		N/A	The responsible entity failed to plan and coordinate scheduled outages of telemetering and control equipment and associated communication channels between the	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-003-0 Planned Outage Coordination					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	Coordinator, but failed to coordinate with affected neighboring Transmission Operators, Balancing Authorities and Generator Operators.			affected areas.	
Revised R3.	N/A	N/A	The responsible entity planned scheduled outages of telemetering and control equipment and associated communication channels but failed to coordinate between the affected areas.	The responsible entity failed to plan and coordinate scheduled outages of telemetering and control equipment and associated communication channels between the affected areas.	The lower VSL was moved to a high VSL category. Modified VSLs to remain consistent with the requirement wording per FERC guideline #3.
Original R4.	N/A	N/A	N/A	The Reliability Coordinator failed to resolve any scheduling of potential reliability conflicts.	
Revised R4.	N/A	N/A	N/A	The Reliability Coordinator failed to resolve any scheduling of potential reliability conflicts.	No changes.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1.	N/A	N/A	The Transmission Operator operated within the Interconnection Reliability Operating Limits (IROLs), but failed to operate within the System Operating Limits (SOLs).	The Transmission Operator failed to operate within the Interconnection Reliability Operating Limits (IROLs) and System Operating Limits (SOLs).	
Revised R1.	N/A	N/A	N/A	The Transmission Operator failed to operate within the Interconnection Reliability Operating Limits (IROLs) and System Operating Limits (SOLs).	Revised to make Binary.
Original R2.	N/A	N/A	N/A	The Transmission Operator failed to operate so that instability, uncontrolled separation, or cascading outages would not occur as a result of the most severe single contingency.	
Revised R2.	N/A	N/A	N/A	The Transmission Operator failed to operate so that instability, uncontrolled separation, or cascading outages would not occur as a result of the most severe single contingency.	No changes.
Original R3.	N/A	N/A	N/A	The Transmission Operator failed to operate (when	

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				practical) to protect against instability, uncontrolled separation, or cascading outages resulting from multiple outages, as specified by Regional Reliability Organization policy.	
Revised R3.	N/A	N/A	N/A	The Transmission Operator failed to operate to protect against instability, uncontrolled separation, or cascading outages resulting from multiple outages, as specified by Regional Reliability Organization <u>Reliability Coordinator</u> policy.	Removed (when practical) otherwise unchanged. <u>Changed reference from RRO to RC.</u>
Original R4.	The Transmission Operator entering an unknown operating state (i.e., any state for which valid operating limits have not been determined), failed to restore operations to respect proven reliable power system limits for more than 30 minutes but less than or equal to 35 minutes.	The Transmission Operator entering an unknown operating state (i.e., any state for which valid operating limits have not been determined), failed to restore operations to respect proven reliable power system limits for more than 35 minutes but less than or equal to 40 minutes.	The Transmission Operator entering an unknown operating state (i.e., any state for which valid operating limits have not been determined), failed to restore operations to respect proven reliable power system limits for more than 40 minutes but less than or equal to 45 minutes.	The Transmission Operator entering an unknown operating state (i.e., any state for which valid operating limits have not been determined), failed to restore operations to respect proven reliable power system limits for more than 45 minutes.	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R4.	N/A	N/A	N/A	The Transmission Operator entered an unknown operating state (i.e., any state for which valid operating limits have not been determined), and failed to restore operations to respect proven reliable power system limits for more than 30 minutes.	Changed to make the VSL Binary.
Original R5.	N/A	N/A	N/A	The Transmission Operator does not have evidence that the actions taken to protect its area, resulting in its disconnection from the Interconnection, were necessary to prevent the danger of violating an IROL or SOL.	
Revised R5.	N/A	N/A	N/A	The Transmission Operator did not make every effort to remain connected to the Interconnection except when the Transmission Operator determined that by remaining interconnected, it was in imminent danger of violating an IROL or SOL.	Modified VSL language to align with the language of the requirement.

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R6.	The Transmission Operator developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability, including the elements listed in TOP-004-1 R6.1 through R6.4, but failed to include other Transmission Operators in the development of said policies and procedures.	The Transmission Operator, individually and jointly with other Transmission Operators, developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability, but failed to include one of the elements listed in TOP-004-1 R6.1 through R6.4.	The Transmission Operator, individually and jointly with other Transmission Operators, developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability, but failed to include two of the elements listed in TOP-004-1 R6.1 through R6.4.	The Transmission Operator, individually and jointly with other Transmission Operators, developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability, but failed to include three or more of the elements listed in TOP-004-1 R6.1 through R6.4.	
Revised R6.	The Transmission Operator, individually and jointly with other Transmission Operators, developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability,	The Transmission Operator, individually and jointly with other Transmission Operators, developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability, but failed to	The Transmission Operator, individually and jointly with other Transmission Operators, developed, maintained, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability, but failed to	The Transmission Operator, failed to develop, maintain, and implemented formal policies and procedures to provide for transmission reliability, addressing the execution and coordination of activities that impact inter- and intra-Regional reliability. If formal policies and procedures were developed, such	Reworded language of the VSLs and rolled-up the sub-requirements into Requirement R6. <u>Corrected the reference to the subrequirements by changing R6.6 to R6.4.</u>

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	but failed to include information required by 1 of the sub-requirements R6.1 thru R6.64.	include information required by 2 of the sub-requirements R6.1 thru R6.64.	include information required by 3 of the sub-requirements R6.1 thru R6.64.	policies and procedures failed to -include any of the information required in 4 or more of the sub-requirements R6.1 thru R6.64.	
Original R6.1.	The Transmission Operator failed to include monitoring and controlling voltage levels and real and reactive power flows in the development, maintenance, and implementation of formal policies and procedures to provide for transmission reliability as described	N/A	N/A	N/A	
Revised R6.2.	N/A	N/A	N/A	N/A	Rolled up into R6.
Original R6.2.	The Transmission Operator failed to include switching transmission elements in the development, maintenance, and implementation of formal policies and procedures to provide for transmission reliability as described in	N/A	N/A	N/A	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	TOP-004-1 R6.				
Revised R6.2.	N/A	N/A	N/A	N/A	Rolled up into R6.
Original R6.3.	The Transmission Operator failed to include planned outages of transmission elements in the development, maintenance, and implementation of formal policies and procedures to provide for transmission reliability as described in TOP-004-1 R6.	N/A	N/A	N/A	
Revised R6.3.	N/A	N/A	N/A	N/A	Rolled up into R6.
Original R6.4.	The Transmission Operator failed to include responding to IROL and SOL violations in the development, maintenance, and implementation of formal policies and procedures to provide for transmission reliability as described in TOP-004-1 R6.	N/A	N/A	N/A	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-004-2 Transmission Operations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R6.4.	N/A	N/A	N/A	N/A	Rolled up into R6.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-005-1 Operational Reliability Information					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1.	N/A	N/A	N/A	The responsible entity failed to provide all of the data requested by its Reliability Coordinator.	
Revised R1.	The responsible entity failed to provide to its Reliability Coordinator 5% or less less than 5% of the operating data that the Reliability Coordinator requested to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	The responsible entity failed to provide to its Reliability Coordinator more than 5% up to (and including) 10% 5% to less than 10% of the operating data that the Reliability Coordinator requested to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	The responsible entity failed to provide to its Reliability Coordinator more than 10% up to (and including) 15% 10% to less than 15% of the operating data that the Reliability Coordinator requested to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	The responsible entity failed to provide to its Reliability Coordinator more than 15% 15% or greater of the operating data that the Reliability Coordinator requested to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	VSLs changed to use a graduated approach using 5, 10, 15% increments. <u>Modified % language for consistency between standards.</u>
Original R1.1.	N/A	N/A	N/A	The Reliability Coordinator failed to identify the data necessary to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	
Revised R1.1.	The Reliability Coordinator failed to identify <u>identify 5% or</u>	The Reliability Coordinator failed to identify <u>more than 5% up to (and including)</u>	The Reliability Coordinator failed to identify <u>more than 10% up to (and including)</u>	The Reliability Coordinator failed to identify <u>more than 15%</u> 15% or greater of the	VSLs changed to use a graduated approach using 5, 10, 15% increments.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-005-1 Operational Reliability Information					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	less than 5% of the data requirements from Attachment 1 - TOP-005-0 and any additional operating information requirements relating to operation of the bulk power system within the Reliability Coordinator Area	10% 5% to less than 10% of the data requirements from Attachment 1 - TOP-005-0 and any additional operating information requirements relating to operation of the bulk power system within the Reliability Coordinator Area	15% 10% to less than 15% of the data requirements from Attachment 1 - TOP-005-0 and any additional operating information requirements relating to operation of the bulk power system within the Reliability Coordinator Area.	data requirements from Attachment 1 - TOP-005-0 and any additional operating information requirements relating to operation of the bulk power system within the Reliability Coordinator Area.	Modified % language for consistency between standards.
Original R2.	N/A	N/A	N/A	The ISN data recipient failed to sign the NERC Confidentiality Agreement for “Electric System Reliability Data”.	
Revised R2.	N/A-	N/A-	N/A-	The ISN data recipient failed to sign the NERC Confidentiality Agreement for “Electric System Reliability Data”.	No changes.
Original R3.	The responsible entity failed to provide any of the data requested by other Balancing Authorities or Transmission Operators.	N/A	N/A	The responsible entity failed to provide all of the data requested by its host Balancing Authority or Transmission Operator.	
Revised R3.	The Balancing Authority or Transmission Operator, upon the request of a	The Balancing Authority or Transmission Operator, upon the request of a	The Balancing Authority or Transmission Operator, upon the request of a	The Balancing Authority or Transmission Operator, upon the request of a	VSLs changed to use a graduated approach using 5, 10, 15% increments.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-005-1 Operational Reliability Information					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	Balancing Authority or Transmission Operator that has immediate responsibility for operational reliability, failed to provide 5% or less <u>less than 5%</u> of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	Balancing Authority or Transmission Operator that has immediate responsibility for operational reliability, failed to provide more than 5% up to (and including) 10% <u>5% to less than 10%</u> of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	Balancing Authority or Transmission Operator that has immediate responsibility for operational reliability, failed to provide more than 10% up to (and including) 15% <u>10% to less than 15%</u> of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	Balancing Authority or Transmission Operator that has immediate responsibility for operational reliability, failed to provide more than 15% <u>15% or more</u> of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	<u>Modified % language for consistency between standards.</u>
Original R4.	The responsible entity failed to provide any of the data requested by other Balancing Authorities or Transmission Operators.	N/A	N/A	The responsible entity failed to provide all of the data requested by its host Balancing Authority or Transmission Operator.	
Revised R4.	<u>The responsible entity failed to provide any of the data requested by other Balancing Authorities or Transmission Operators.</u> The Purchasing—Selling Entity failed to provide less than 5% of the information as requested by its Host	N/A The Purchasing—Selling Entity failed to provide 5% to less than 10% of the information as requested by its Host Balancing Authorities and Transmission Operators to enable them to conduct operational reliability assessments and to coordinate reliable	N/A The Purchasing—Selling Entity failed to provide 10% to less than 15% of the information as requested by its Host Balancing Authorities and Transmission Operators to enable them to conduct operational reliability assessments and to coordinate reliable	<u>The responsible entity failed to provide all of the data requested by its host Balancing Authority or Transmission Operator.</u> The Purchasing—Selling Entity failed to provide 15% or greater of the information as requested by its Host Balancing Authorities and Transmission Operators to	VSLs changed to use a graduated approach using 5, 10, 15% increments. <u>Reverted to originally proposed VSLs.</u>

Standard Number TOP-005-1 Operational Reliability Information					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
	Balancing Authorities and Transmission Operators to enable them to conduct operational reliability assessments and to coordinate reliable operations.	operations.	operations.	enable them to conduct operational reliability assessments and to coordinate reliable operations.	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-006-1 Monitoring System Conditions					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1.	N/A	N/A	N/A	The responsible entity failed to know the status of all generation and transmission resources available for use, even though said information was reported by the Generator Operator, Transmission Operator, or Balancing Authority.	
Revised R1.	N/A	N/A	N/A	The responsible entity failed to know the status of all generation and transmission resources available for use, even though said information was reported by the Generator Operator, Transmission Operator, or Balancing Authority.	No changes.
Original R1.1.	N/A	N/A	N/A	The Generator Operator failed to inform its Host Balancing Authority and the Transmission Operator of all generation resources available for use.	
Revised R1.1.	N/A	N/A	N/A	The Generator Operator failed to inform its Host Balancing Authority and the Transmission Operator	No changes.

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-006-1 Monitoring System Conditions					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				of all generation resources available for use.	
Original R1.2.	N/A	N/A	N/A	The responsible entity failed to inform the Reliability Coordinator and other affected Balancing Authorities and Transmission Operators of all generation and transmission resources available for use.	
Revised R1.2.	N/A	N/A	N/A	The responsible entity failed to inform the Reliability Coordinator and other affected Balancing Authorities and Transmission Operators of all generation and transmission resources available for use.	No changes.
Original R2.	N/A	The responsible entity monitors the applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, but is not aware of the status of rotating and static reactive resources.	The responsible entity fails to monitor all of the applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of all rotating and static reactive resources.	The responsible entity fails to monitor any of the applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-006-1 Monitoring System Conditions					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R2.	The responsible entity failed to monitor <u>5% or less</u> less than 5% of applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	The responsible entity failed to monitor <u>more than 5% up to (and including) 10%</u> between 5% and less than 10% of applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	The responsible entity failed to monitor <u>more than 10% up to (and including) 15%</u> between 10% and less than 15% of applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	The responsible entity failed to monitor <u>more than 15%</u> 15% or more of applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	VSLs changed to use a graduated approach using 5, 10, 15% increments. <u>Modified % language for consistency between standards.</u>
Original R3.	The responsible entity failed to provide any of the appropriate technical information concerning protective relays to their operating personnel.	N/A	N/A	The responsible entity failed to provide all of the appropriate technical information concerning protective relays to their operating personnel.	
Revised R3.	The responsible entity failed to provide <u>5% or less</u> less than 5% of the appropriate technical information concerning protective relays to its operating personnel.	The responsible entity failed to provide <u>more than 5% up to (and including) 10%</u> between 5% and less than 10% of the appropriate technical information concerning protective relays to its operating personnel.	The responsible entity failed to provide <u>more than 10% up to (and including) 15%</u> between 10% and less than 15% of the appropriate technical information concerning protective relays to its operating personnel.	The responsible entity failed to provide <u>more than 15%</u> 15% or greater of the appropriate technical information concerning protective relays to its operating personnel.	VSLs changed to use a graduated approach using 5, 10, 15% increments. <u>Modified % language for consistency between standards.</u>
Original R4.	N/A	N/A	The responsible entity has either weather forecasts or past load patterns, available to predict the system's	The responsible entity failed to have both weather forecasts and past load patterns, available to	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-006-1 Monitoring System Conditions					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
			near-term load pattern, but not both.	predict the system's near-term load pattern.	
Revised R4.	N/A	N/A	The responsible entity has either weather forecasts or past load patterns, available to predict the system's near-term load pattern, but not both.	The responsible entity failed to have both weather forecasts and past load patterns, available to predict the system's near-term load pattern.	No changes.
Original R5.	N/A	N/A	The responsible entity used monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions, but does not have indication of the need for corrective action.	The responsible entity failed to use monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions.	
Revised R5.	N/A	N/A	The responsible entity used monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions, but does not have indication of the need for corrective action.	The responsible entity failed to use monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions.	No changes.
Original R6.	N/A	N/A	N/A	The responsible entity failed to use sufficient metering of suitable range,	

Proposed Violation Severity Levels for the TOP Series of Standards

Standard Number TOP-006-1 Monitoring System Conditions					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
				accuracy and sampling rate (if applicable) to ensure accurate and timely monitoring of operating conditions under both normal and emergency situations.	
Revised R6.	N/A	N/A	N/A	The responsible entity failed to use sufficient metering of suitable range, accuracy and sampling rate (if applicable) to ensure accurate and timely monitoring of operating conditions under both normal and emergency situations.	No changes.
Original R7.	N/A	N/A	N/A	The responsible entity failed to monitor system frequency.	
Revised R7.	N/A	N/A	N/A	The responsible entity failed to monitor system frequency.	No changes.

Standard Number TOP-007-0 Reporting SOL and IROL Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1.	N/A	N/A	The Transmission Operator informed its Reliability Coordinator when an IROL or SOL had been exceeded but failed to provide the actions being taken to return the system to within limits.	The Transmission Operator failed to inform its Reliability Coordinator when an IROL or SOL had been exceeded.	
Revised R1.			The Transmission Operator informed its Reliability Coordinator when an IROL or SOL had been exceeded but failed to provide the actions being taken to return the system to within limits.	The Transmission Operator failed to inform its Reliability Coordinator when an IROL or SOL had been exceeded.	No changes.
Original R2.	Following a Contingency or other event that resulted in an IROL violation of a magnitude up to and including 5%, the Transmission Operator failed to return its transmission system to within IROL in less than or equal to 35 minutes.	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within IROL in accordance with the following: (a) an IROL with a magnitude up to and including 5% for a period of time greater than 35 minutes but less than or equal to 45 minutes, or (b) an IROL with a magnitude	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within IROL in accordance with the following: (a) an IROL with a magnitude up to and including 5% for a period of time greater than 45 minutes, or (b) an IROL with a magnitude greater than 5% but less than or	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within IROL in accordance with the following: (a) an IROL with a magnitude greater than 10% but less than or equal to 15% for a period of time greater than 45 minutes, or (b) an IROL with a magnitude greater	

Standard Number TOP-007-0 Reporting SOL and IROL Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
		greater than 5% but less than or equal to 10% for a period of time less than or equal to 40 minutes, or (c) an IROL with a magnitude greater than 10% but less than or equal to 15% for a period of time less than or equal to 35 minutes.	equal to 10% for a period of time greater than 40 minutes, or (c) an IROL with a magnitude greater than 10% but less than or equal to 15% for a period of time greater than 35 minutes but less than or equal to 45 minutes, or (d) an IROL with a magnitude greater than 15% but less than or equal to 20% for a period of time less than or equal to 40 minutes, or (e) an IROL with a magnitude greater than 20% but less than or equal to 25% for a period of time less than or equal to 35 minutes.	than 15% but less than or equal to 20% for a period of time greater than 40 minutes, or (c) an IROL with a magnitude greater than 20% but less than or equal to 25% for a period of time greater than 35 minutes, or (d) an IROL with a magnitude greater than 25% for a period of greater than 30 minutes.	
Revised R2.	Following a Contingency or other event that resulted in an IROL violation of a magnitude of 5% or less up to and including 5% , the Transmission Operator failed to return its transmission system to within <u>the</u> IROL in less than or equal to 35 minutes.	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within <u>the</u> IROL in accordance with the following: (a) an IROL with a magnitude of 5% or less up to and including 5% for a	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within <u>the</u> IROL in accordance with the following: (a) an IROL with a magnitude of 5% or less up to and including 5% for a	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within <u>the</u> IROL in accordance with the following: (a) an IROL with a magnitude of more than 10% up to (and including)	No changes. These VSLs are consistent with Table 1 in TOP-007, levels of non compliance. <u>Modified % language for consistency between standards.</u>

Standard Number TOP-007-0 Reporting SOL and IROL Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
		<p>period of time greater than 35 minutes but less than or equal to 45 minutes, or</p> <p>(b) an IROL with a magnitude <u>of more than 5%</u> <u>up to (and including) 10%</u> <u>greater than 5% but less than or equal to 10%</u> for a period of time less than or equal to 40 minutes, or</p> <p>(c) an IROL with a magnitude <u>of more than 10%</u> <u>up to (and including) 15%</u> <u>greater than 10% but less than or equal to 15%</u> for a period of time less than or equal to 35 minutes.</p>	<p>period of time greater than 45 minutes, or</p> <p>(b) an IROL with a magnitude <u>greater of more than 5%</u> <u>up to (and including) 10%</u> <u>than 5% but less than or equal to 10%</u> for a period of time greater than 40 minutes, or</p> <p>(c) an IROL with a magnitude <u>of more than 10%</u> <u>up to (and including) 15%</u> <u>greater than 10% but less than or equal to 15%</u> for a period of time greater than 35 minutes but less than or equal to 45 minutes, or</p> <p>(d) an IROL with a magnitude <u>greater of more than 15%</u> <u>up to (and including) 20%</u> <u>but less than or equal to up to (and including) 20%</u> for a period of time less than or equal to 40 minutes, or</p> <p>(e) an IROL with a magnitude <u>greater of more than 20%</u> <u>up to (and including) 25%</u> <u>but less than or equal to up to (and including) 25%</u> for a period of time less than or equal to</p>	<p>15% <u>greater than 10% but less than or equal to 15%</u> for a period of time greater than 45 minutes, or</p> <p>(b) an IROL with a magnitude <u>greater of more than 15%</u> <u>up to (and including) 20%</u> <u>but less than or equal to up to (and including) 20%</u> for a period of time greater than 40 minutes, or</p> <p>(c) an IROL with a magnitude <u>greater of more than 20%</u> <u>up to (and including) 25%</u> <u>but less than or equal to up to (and including) 25%</u> for a period of time greater than 35 minutes, or</p> <p>(d) an IROL with a magnitude <u>greater of more than 25%</u> for a period of greater than 30 minutes.</p>	

Standard Number TOP-007-0 Reporting SOL and IROL Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
			35 minutes.		
Original R3.	N/A	N/A	N/A	The Transmission Operator failed to take all appropriate actions up to and including shedding firm load, or directing the shedding of firm load, in order to return the transmission system to IROL within 30 minutes.	
Revised R3.	Following a Contingency or other event that resulted in an IROL violation of a magnitude of 5% or less up to and including 5% , the Transmission Operator failed to take all appropriate action up to and including shedding of firm load, or directing the shedding of firm load, to return its transmission system to within <u>the IROL</u> in less than or equal to 35 minutes.	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to take all appropriate actions up to and including shedding of firm load, or directing the shedding of firm load, to return its transmission system to within <u>the IROL</u> in accordance with the following: (a) an IROL with a magnitude of 5% or less up to and including 5% for a period of time greater than 35 minutes but less than or	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to take all appropriate actions up to and including shedding of firm load, or directing the shedding of firm load, to return its transmission system to within <u>the IROL</u> in accordance with the following: (a) an IROL with a magnitude of 5% or less up to and including 5% for a period of time greater than 45 minutes, or	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to take all appropriate actions to and including shedding of firm load, or directing the shedding of firm load, to return its transmission system to within <u>the IROL</u> in accordance with the following:- (a) an IROL with a magnitude of more than 10% up to (and including) 15% greater than 10% but less than or equal to 15% for a period of time greater	Revised VSLs to make consistent with Requirement 2. Requirement 3 requires compliance with Requirement 2 by specifically shedding load. VSLs for R2 and R3 should be based upon Table 1 of TOP-007. <u>Modified % language for consistency between standards.</u>

Standard Number TOP-007-0 Reporting SOL and IROL Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
		<p>equal to 45 minutes, or</p> <p>(b) an IROL with a magnitude <u>of more than 5% up to (and including) 10%</u> greater than 5% but less than or equal to 10% for a period of time less than or equal to 40 minutes, or</p> <p>(c) an IROL with a magnitude <u>of more than 10% up to (and including) 15%</u> greater than 10% but less than or equal to 15% for a period of time less than or equal to 35 minutes.</p>	<p>(b) an IROL with a magnitude <u>of more than 5% up to (and including) 10%</u> greater than 5% but less than or equal to 10% for a period of time greater than 40 minutes, or</p> <p>(c) an IROL with a magnitude <u>of more than 10% up to (and including) 15%</u> greater than 10% but less than or equal to 15% for a period of time greater than 35 minutes but less than or equal to 45 minutes, or</p> <p>(d) an IROL with a magnitude <u>of more than 15% up to (and including) 20%</u> greater than 15% but less than or equal to 20% for a period of time less than or equal to 40 minutes, or</p> <p>(e) an IROL with a magnitude <u>of more than 20% up to (and including) 25%</u> greater than 20% but less than or equal to 25% for a period of time less than or equal to 35 minutes.</p>	<p>than 45 minutes, or</p> <p>(b) an IROL with a magnitude <u>of more than 15% up to (and including) 20%</u> greater than 15% but less than or equal to 20% for a period of time greater than 40 minutes, or</p> <p>(c) an IROL with a magnitude <u>of more than 20% up to (and including) 25%</u> greater than 20% but less than or equal to 25% for a period of time greater than 35 minutes, or</p> <p>(d) an IROL with a magnitude <u>of more than 25%</u> greater than 25% for a period of greater than 30 minutes.</p>	

Standard Number TOP-007-0 Reporting SOL and IROL Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R4.	N/A	N/A	N/A	The Reliability Coordinator failed to evaluate actions taken to address an IROL or SOL violation and, if the actions taken were not appropriate or sufficient, direct actions required to return the system to within limits.	
Revised R4.	The Reliability Coordinator evaluated actions taken to address an SOL violation and found the actions taken were inappropriate or insufficient, but failed to direct actions required to return the system to within limits.	The Reliability Coordinator did not evaluate actions taken to address an SOL violation and failed to direct actions required to return the system to within limits.	The Reliability Coordinator evaluated actions taken to address an IROL violation and found the actions taken were inappropriate or insufficient, but failed to direct actions required to return the system to within limits.	The Reliability Coordinator failed to evaluate actions taken to address an IROL violation and did not direct actions required to return the system to within limits.	Reworded the VSLs to 4 levels, used different weights for SOL and IROL

Standard Number TOP-008-1 Response to Transmission Limit Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Original R1.	N/A	N/A	N/A	The Transmission Operator experiencing or contributing to an IROL or SOL violation failed to take immediate steps to relieve the condition, which may have included shedding firm load.	
Revised R1.				The Transmission Operator experiencing or contributing to an IROL or SOL violation failed to take immediate steps to relieve the condition, which may have included shedding firm load.	No changes.
Original R2.	N/A	The Transmission Operator operated to prevent the likelihood that a disturbance, action, or inaction would result in an IROL or SOL violation in its area or another area of the Interconnection but failed to operate the Bulk Electric System to the most limiting parameter in instances where there was a difference in derived operating limits.	The Transmission Operator operated to prevent the likelihood that a disturbance, action, or inaction would result in an IROL or SOL violation in its area but failed to operate to prevent the likelihood that a disturbance, action, or inaction would result in an IROL or SOL violation in another area of the Interconnection.	The Transmission Operator failed to operate to prevent the likelihood that a disturbance, action, or inaction would result in an IROL or SOL violation in its area or another area of the Interconnection.	

Standard Number TOP-008-1 Response to Transmission Limit Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R2.	N/A	N/A	The Transmission Operator operated to prevent the likelihood that a disturbance, action, or inaction would result in an IROL or SOL violation in its area or another area of the Interconnection but failed to operate the Bulk Electric System to the most limiting parameter in instances where there was a difference in derived operating limits.	The Transmission Operator failed to operate to prevent the likelihood that a disturbance, action, or inaction would result in an IROL or SOL violation in its area or another area of the Interconnection.	Moved Moderate to High, and replaced former High.
Original R3.	N/A	The Transmission Operator disconnected the affected facility when the overload on a transmission facility or abnormal voltage or reactive condition persisted and equipment was endangered but failed to notify its Reliability Coordinator and all neighboring Transmission Operators impacted by the disconnection either prior to switching, if time permitted, otherwise, immediately thereafter.	N/A	The Transmission Operator failed to disconnect the affected facility when the overload on a transmission facility or abnormal voltage or reactive condition persisted and equipment was endangered.	

Standard Number TOP-008-1 Response to Transmission Limit Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
Revised R3.	N/A	N/A	The Transmission Operator disconnected the affected facility when the overload on a transmission facility or abnormal voltage or reactive condition persisted and equipment was endangered but failed to notify its Reliability Coordinator and all neighboring Transmission Operators impacted by the disconnection either prior to switching, if time permitted, otherwise, immediately thereafter.	The Transmission Operator failed to disconnect the affected facility when the overload on a transmission facility or abnormal voltage or reactive condition persisted and equipment was endangered.	Moved Moderate to High.
Original R4.	N/A	N/A	The Transmission Operator had sufficient information and analysis tools to determine the cause(s) of SOL violations and used the results of these analyses to immediately mitigate the SOL violation(s), but failed to conduct these analyses in all operating timeframes.	The Transmission Operator failed to have sufficient information and analysis tools to determine the cause(s) of SOL violations or failed to use the results of analyses to immediately mitigate the SOL violation.	
Revised R4.	N/A	N/A	The Transmission Operator failed to conduct analyses to determine the cause(s) of SOL violations for all	The Transmission Operator failed to have sufficient information and analysis tools to determine the	Changed language for clarity.

Standard Number TOP-008-1 Response to Transmission Limit Violations					
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL	Explanation of Change
			operating timeframes.	cause(s) of SOL violations. OR The responsible entity failed to use the results of analyses to immediately mitigate the SOL violation.	