

The following errata change was made following the initial ballot:

- TOP-004-2, R6 — corrected the reference in all four VSLs from R6.6 to R6.4.

Proposed Violation Severity Levels for the TOP Series of Standards:

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Standard Number TOP-001-1 Reliability Responsibilities and Authorities				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1.	N/A	N/A	The Transmission Operator has no clear decision-making authority to ensure reliability in its area.	The Transmission Operator failed to exercise specific authority to alleviate operating emergencies.
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.
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

Standard Number TOP-001-1 Reliability Responsibilities and Authorities				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
				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 remedial actions.
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.

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Standard Number TOP-001-1 Reliability Responsibilities and Authorities				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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.
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.
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.

Standard Number TOP-001-1 Reliability Responsibilities and Authorities				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R8.	N/A	N/A	N/A	<p>The responsible entity failed to take immediate actions to restore the Real and Reactive Power Balance during a system emergency.</p> <p>OR</p> <p>The 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>OR</p> <p>During a period when corrective actions or emergency assistance was not adequate to mitigate the Real and Reactive Power Balance, the responsible entity failed to implement firm load shedding.</p>

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Standard Number TOP-002-2 Normal Operations Planning				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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 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.
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.
R3.	N/A	The responsible entity 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)	The responsible entity failed to coordinate (where confidentiality agreements allow) two of the following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies).	The responsible entity failed to coordinate (where confidentiality agreements allow) all three of the following categories of operations (current-day, next-day or seasonal) with the applicable entity(ies).

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Standard Number TOP-002-2 Normal Operations Planning				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R4.		The responsible entity 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)	The responsible entity failed to coordinate (where confidentiality agreements allow) two of the following three categories of operations (current-day, next-day or seasonal) with the applicable entity(ies)	The responsible entity failed to coordinate (where confidentiality agreements allow) all three of the following categories of operations (current-day, next-day or seasonal) with the applicable entity(ies)
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.
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
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

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Standard Number TOP-002-2 Normal Operations Planning				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
				single Contingency.
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.
R9.	N/A	N/A	N/A	The Balancing Authority failed to plan to meet Interchange Schedules and Ramps.
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).
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	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.

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Standard Number TOP-002-2 Normal Operations Planning				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
		Coordinator.		
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.
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.

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Standard Number TOP-002-2 Normal Operations Planning				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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.
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).
R16.	N/A	N/A	Subject to standards of conduct and confidentiality agreements, the Transmission Operator intentionally 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,	Subject to standards of conduct and confidentiality agreements, the Transmission Operator intentionally 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).

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Standard Number TOP-002-2 Normal Operations Planning				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
			the Transmission Operator intentionally failed to notify its Reliability Coordinator and Balancing Authority of changes in transmission facility rating (R16.2).	
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.
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.
R19.	N/A	N/A	N/A	The responsible entity failed to maintain accurate computer models utilized for analyzing and planning system operations.

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Standard Number TOP-003-0 Planned Outage Coordination				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1.	N/A	N/A	N/A	N/A
R1.1.	N/A	N/A		<p>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 outage of a generator greater than 50 MW).</p> <p>OR</p> <p>The Transmission Operator failed to establish the outage reporting requirements.</p>
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</p>

Standard Number TOP-003-0 Planned Outage Coordination				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
				<p>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 failed to establish the outage reporting requirements.</p>
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.
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

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Standard Number TOP-003-0 Planned Outage Coordination				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
				generators, supplementary excitation control, synchronous condensers, shunt and series capacitors, reactors, etc., among affected Balancing Authorities and Transmission Operators when required.
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.
R4.	N/A	N/A	N/A	The Reliability Coordinator failed to resolve any scheduling of potential reliability conflicts.

Standard Number TOP-004-2 Transmission Operations				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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).
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.
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 Reliability Coordinator policy.
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.

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Standard Number TOP-004-2 Transmission Operations				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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.
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, but failed to include information required by 1 of the sub-requirements R6.1 thru R6.64.	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 information required by 2 of the sub-requirements R6.1 thru R6.64.	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 information required by 3 of the sub-requirements R6.1 thru R6.64.	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 policies and procedures failed to include any of the information required in 4 or more of the sub-requirements R6.1 thru R6.64

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Standard Number TOP-005-1 Operational Reliability Information				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1.	The responsible entity failed to provide to its Reliability Coordinator 5% or less 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% 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% 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% of the operating data that the Reliability Coordinator requested to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.
R1.1.	The Reliability Coordinator failed to identify 5% or less 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	The Reliability Coordinator failed to identify more than 5% up to (and including) 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	The Reliability Coordinator failed to identify more than 10% up to (and including) 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.	The Reliability Coordinator failed to identify more 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.
R2.	N/A	N/A	N/A	The ISN data recipient failed to sign the NERC Confidentiality Agreement for “Electric System Reliability Data”.
R3.	The Balancing Authority or Transmission Operator, upon the request of a Balancing Authority or Transmission Operator that has immediate	The Balancing Authority or Transmission Operator, upon the request of a Balancing Authority or Transmission Operator that has immediate	The Balancing Authority or Transmission Operator, upon the request of a Balancing Authority or Transmission Operator that has immediate	The Balancing Authority or Transmission Operator, upon the request of a Balancing Authority or Transmission Operator that has immediate

Standard Number TOP-005-1 Operational Reliability Information				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
	responsibility for operational reliability, failed to provide 5% or less of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	responsibility for operational reliability, failed to provide more than 5% up to (and including) 10% of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	responsibility for operational reliability, failed to provide more than 10% up to (and including) 15% of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.	responsibility for operational reliability, failed to provide more than 15% of the operating data necessary to perform operational reliability assessments and to coordinate reliable operations.
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.

Standard Number TOP-006-1 Monitoring System Conditions				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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.
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.
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.
R2.	The responsible entity failed to monitor 5% or less 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 more than 5% up to (and including) 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 more than 10% up to (and including) 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 more 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.

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Standard Number TOP-006-1 Monitoring System Conditions				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R3.	The responsible entity failed to provide 5% or less of the appropriate technical information concerning protective relays to its operating personnel.	The responsible entity failed to provide more than 5% up to (and including) 10% of the appropriate technical information concerning protective relays to its operating personnel.	The responsible entity failed to provide more than 10% up to (and including) 15% of the appropriate technical information concerning protective relays to its operating personnel.	The responsible entity failed to provide more than 15% of the appropriate technical information concerning protective relays to its operating personnel.
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.
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.
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.

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Standard Number TOP-006-1 Monitoring System Conditions				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R7.	N/A	N/A	N/A	The responsible entity failed to monitor system frequency.

Standard Number TOP-007-0 Reporting SOL and IROL Violations				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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.
R2.	Following a Contingency or other event that resulted in an IROL violation of a magnitude of 5% or less, the Transmission Operator failed to return its transmission system to within the 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 the IROL in accordance with the following: (a) an IROL with a magnitude of 5% or less for a period of time greater than 35 minutes but less than or equal to 45 minutes, or (b) an IROL with a magnitude of more than 5% up to (and including) 10% for a period of time less than or equal to 40 minutes, or (c) an IROL with a magnitude of more than 10% up to (and including) 15% for a period of time 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 the IROL in accordance with the following: (a) an IROL with a magnitude of 5% or less for a period of time greater than 45 minutes, or (b) an IROL with a magnitude of more than 5% up to (and including) 10% for a period of time greater than 40 minutes, or (c) an IROL with a magnitude of more than 10% up to (and including) 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 of more than 15% up to (and including) 20% for a period of	Following a Contingency or other event that resulted in an IROL violation, the Transmission Operator failed to return its transmission system to within the IROL in accordance with the following: (a) an IROL with a magnitude of more than 10% up to (and including) 15% for a period of time greater than 45 minutes, or (b) an IROL with a magnitude of more than 15% up to (and including) 20% for a period of time greater than 40 minutes, or (c) an IROL with a magnitude of more than 20% up to (and including) 25% for a period of time greater than 35 minutes, or (d) an IROL with a magnitude of more than 25% for a period of greater than 30 minutes.

Standard Number TOP-007-0 Reporting SOL and IROL Violations				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
			time less than or equal to 40 minutes, or (e) an IROL with a magnitude of more than 20% up to (and including) 25% for a period of time less than or equal to 35 minutes.	
R3.	Following a Contingency or other event that resulted in an IROL violation of a magnitude of 5% or less, 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 the 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 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 the IROL in accordance with the following: (a) an IROL with a magnitude of 5% or less for a period of time greater than 35 minutes but less than or equal to 45 minutes, or (b) an IROL with a magnitude of more than 5% up to (and including) 10% for a period of time less than or equal to 40 minutes, or (c) an IROL with a magnitude of more than 10% up to (and	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 the IROL in accordance with the following: (a) an IROL with a magnitude of 5% or less for a period of time greater than 45 minutes, or (b) an IROL with a magnitude of more than 5% up to (and including) 10% for a period of time greater than 40 minutes, or (c) an IROL with a magnitude of more than 10% up to (and including) 15% for a period of time greater than 35 minutes but less than or equal to 45	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 the IROL in accordance with the following: (a) an IROL with a magnitude of more than 10% up to (and including) 15% for a period of time greater than 45 minutes, or (b) an IROL with a magnitude of more than 15% up to (and including) 20% for a period of time greater than 40 minutes, or (c) an IROL with a magnitude of more than 20% up to (and including) 25% for a period of time greater than 35 minutes, or

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R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
		including) 15% for a period of time less than or equal to 35 minutes.	minutes, or (d) an IROL with a magnitude of more than 15% up to (and including) 20% for a period of time less than or equal to 40 minutes, or (e) an IROL with a magnitude of more than 20% up to (and including) 25% for a period of time less than or equal to 35 minutes.	(d) an IROL with a magnitude of more than 25% for a period of greater than 30 minutes.
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.

Standard Number TOP-008-1 Response to Transmission Limit Violations				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
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.
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.
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.

Standard Number TOP-008-1 Response to Transmission Limit Violations				
R#	Lower VSL	Moderate VSL	High VSL	Severe VSL
R4.	N/A	N/A	The Transmission Operator failed to conduct analyses to determine the cause(s) of SOL violations for all operating timeframes.	<p>The Transmission Operator failed to have sufficient information and analysis tools to determine the cause(s) of SOL violations.</p> <p>OR</p> <p>The responsible entity failed to use the results of analyses to immediately mitigate the SOL violation.</p>