

Standard Number	Req. No.	Time Horizon	Requirement	Drafting Team Recommended Risk Factor	Please Provide a Recommended Risk Factor if Different
BAL-001-0	R 1.	Operations Assessment	Each Balancing Authority shall operate such that, on a rolling 12-month basis, the average of the clock-minute averages of the Balancing Authority's Area Control Error (ACE) divided by 10B (B is the clock-minute average of the Balancing Authority Area's Frequency Bias) times the corresponding clock-minute averages of the Interconnection's Frequency Error is less than a specific limit. This limit is a constant derived from a targeted frequency bound (separately calculated for each Interconnection) that is reviewed and set as necessary by the NERC Operating Committee. See Standard for Formula.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-001-0	R 2.	Operations Assessment	Each Balancing Authority shall operate such that its average ACE for at least 90% of clock-ten-minute periods (6 non-overlapping periods per hour) during a calendar month is within a specific limit, referred to as L10. See Standard for Formula.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-001-0	R 3.	Operations Assessment	Each Balancing Authority providing Overlap Regulation Service shall evaluate Requirement R1 (i.e., Control Performance Standard 1 or CPS1) and Requirement R2 (i.e., Control Performance Standard 2 or CPS2) using the characteristics of the combined ACE and combined Frequency Bias Settings.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-001-0	R 4.	Operations Assessment	Any Balancing Authority receiving Overlap Regulation Service shall not have its control performance evaluated (i.e. from a control performance perspective, the Balancing Authority has shifted all control requirements to the Balancing Authority providing Overlap Regulation Service).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-002-0	R 1.	Real Time Operation	Each Balancing Authority shall have access to and/or operate Contingency Reserve to respond to Disturbances. Contingency Reserve may be supplied from generation, controllable load resources, or coordinated adjustments to Interchange Schedules.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 1.1.	Real Time Operation	A Balancing Authority may elect to fulfill its Contingency Reserve obligations by participating as a member of a Reserve Sharing Group. In such cases, the Reserve Sharing Group shall have the same responsibilities and obligations as each Balancing Authority with respect to monitoring and meeting the requirements of Standard BAL-002.	Lower	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.	Long Term Planning	Each Regional Reliability Organization, sub-Regional Reliability Organization or Reserve Sharing Group shall specify its Contingency Reserve policies, including:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.1.	Long Term Planning	The minimum reserve requirement for the group.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.2.	Long Term Planning	Its allocation among members.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.3.	Long Term Planning	The permissible mix of Operating Reserve – Spinning and Operating Reserve – Supplemental that may be included in Contingency Reserve.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.4.	Long Term Planning	The procedure for applying Contingency Reserve in practice.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.5.	Long Term Planning	The limitations, if any, upon the amount of interruptible load that may be included.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 2.6.	Long Term Planning	The same portion of resource capacity (e.g. reserves from jointly owned generation) shall not be counted more than once as Contingency Reserve by multiple Balancing Authorities.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 3.	Real Time Operation	Each Balancing Authority or Reserve Sharing Group shall activate sufficient Contingency Reserve to comply with the DCS.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 3.1.	Real Time Operation	As a minimum, the Balancing Authority or Reserve Sharing Group shall carry at least enough Contingency Reserve to cover the most severe single contingency. All Balancing Authorities and Reserve Sharing Groups shall review, no less frequently than annually, their probable contingencies to determine their prospective most severe single contingencies.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

BAL-002-0	R 4.	Real Time Operation	A Balancing Authority or Reserve Sharing Group shall meet the Disturbance Recovery Criterion within the Disturbance Recovery Period for 100% of Reportable Disturbances. The Disturbance Recovery Criterion is:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 4.1.	Real Time Operation	A Balancing Authority shall return its ACE to zero if its ACE just prior to the Reportable Disturbance was positive or equal to zero. For negative initial ACE values just prior to the Disturbance, the Balancing Authority shall return ACE to its pre-Disturbance value.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 4.2.	Real Time Operation	The default Disturbance Recovery Period is 15 minutes after the start of a Reportable Disturbance. This period may be adjusted to better suit the needs of an Interconnection based on analysis approved by the NERC Operating Committee.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 5.	Real Time Operation	Each Reserve Sharing Group shall comply with the DCS. A Reserve Sharing Group shall be considered in a Reportable Disturbance condition whenever a group member has experienced a Reportable Disturbance and calls for the activation of Contingency Reserves from one or more other group members. (If a group member has experienced a Reportable Disturbance but does not call for reserve activation from other members of the Reserve Sharing Group, then that member shall report as a single Balancing Authority.) Compliance may be demonstrated by either of the following two methods:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 5.1.	Real Time Operation	The Reserve Sharing Group reviews group ACE (or equivalent) and demonstrates compliance to the DCS. To be in compliance, the group ACE (or its equivalent) must meet the Disturbance Recovery Criterion after the schedule change(s) related to reserve sharing have been fully implemented, and within the Disturbance Recovery Period.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 5.2.	Real Time Operation	The Reserve Sharing Group reviews each member's ACE in response to the activation of reserves. To be in compliance, a member's ACE (or its equivalent) must meet the Disturbance Recovery Criterion after the schedule change(s) related to reserve sharing have been fully implemented, and within the Disturbance Recovery Period.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 6.	Real Time Operation	A Balancing Authority or Reserve Sharing Group shall fully restore its Contingency Reserves within the Contingency Reserve Restoration Period for its Interconnection.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 6.1.	Real Time Operation	The Contingency Reserve Restoration Period begins at the end of the Disturbance Recovery Period.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-002-0	R 6.2.	Real Time Operation	The default Contingency Reserve Restoration Period is 90 minutes. This period may be adjusted to better suit the reliability targets of the Interconnection based on analysis approved by the NERC Operating Committee.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 1.	Long Term Planning	Each Balancing Authority shall review its Frequency Bias Settings by January 1 of each year and recalculate its setting to reflect any change in the Frequency Response of the Balancing Authority Area.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 1.1.	Long Term Planning	The Balancing Authority may change its Frequency Bias Setting, and the method used to determine the setting, whenever any of the factors used to determine the current bias value change.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 1.2.	Long Term Planning	Each Balancing Authority shall report its Frequency Bias Setting, and method for determining that setting, to the NERC Operating Committee.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 2.	Long Term Planning	Each Balancing Authority shall establish and maintain a Frequency Bias Setting that is as close as practical to, or greater than, the Balancing Authority's Frequency Response. Frequency Bias may be calculated several ways:	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 2.1.	Long Term Planning	The Balancing Authority may use a fixed Frequency Bias value which is based on a fixed, straight-line function of Tie Line deviation versus Frequency Deviation. The Balancing Authority shall determine the fixed value by observing and averaging the Frequency Response for several Disturbances during on-peak hours.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

BAL-003-0	R 2.2.	Long Term Planning	The Balancing Authority may use a variable (linear or non-linear) bias value, which is based on a variable function of Tie Line deviation to Frequency Deviation. The Balancing Authority shall determine the variable frequency bias value by analyzing Frequency Response as it varies with factors such as load, generation, governor characteristics, and frequency.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 3.	Same Day Operations	Each Balancing Authority shall operate its Automatic Generation Control (AGC) on Tie Line Frequency Bias, unless such operation is adverse to system or Interconnection reliability.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 4.	Long Term Planning	Balancing Authorities that use Dynamic Scheduling or Pseudo-ties for jointly owned units shall reflect their respective share of the unit governor droop response in their respective Frequency Bias Setting.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 4.1.	Long Term Planning	Fixed schedules for Jointly Owned Units mandate that Balancing Authority (A) that contains the Jointly Owned Unit must incorporate the respective share of the unit governor droop response for any Balancing Authorities that have fixed schedules (B and C). See the diagram below.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 4.2.	Long Term Planning	The Balancing Authorities that have a fixed schedule (B and C) but do not contain the Jointly Owned Unit shall not include their share of the governor droop response in their Frequency Bias Setting. See Standard for Graphic	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 5.	Long Term Planning	Balancing Authorities that serve native load shall have a monthly average Frequency Bias Setting that is at least 1% of the Balancing Authority's estimated yearly peak demand per 0.1 Hz change.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 5.1.	Long Term Planning	Balancing Authorities that do not serve native load shall have a monthly average Frequency Bias Setting that is at least 1% of its estimated maximum generation level in the coming year per 0.1 Hz change.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-003-0	R 6.	Long Term Planning	A Balancing Authority that is performing Overlap Regulation Service shall increase its Frequency Bias Setting to match the frequency response of the entire area being controlled. A Balancing Authority shall not change its Frequency Bias Setting when performing Supplemental Regulation Service.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-004-0	R 1.	Same Day Operations	Only a Reliability Coordinator shall be eligible to act as Interconnection Time Monitor. A single Reliability Coordinator in each Interconnection shall be designated by the NERC Operating Committee to serve as Interconnection Time Monitor.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-004-0	R 2.	Same Day Operations	The Interconnection Time Monitor shall monitor Time Error and shall initiate or terminate corrective action orders in accordance with the NAESB Time Error Correction Procedure.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-004-0	R 3.	Same Day Operations	Each Balancing Authority, when requested, shall participate in a Time Error Correction by one of the following methods:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-004-0	R 3.1.	Same Day Operations	The Balancing Authority shall offset its frequency schedule by 0.02 Hertz, leaving the Frequency Bias Setting normal; or	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-004-0	R 3.2.	Same Day Operations	The Balancing Authority shall offset its Net Interchange Schedule (MW) by an amount equal to the computed bias contribution during a 0.02 Hertz Frequency Deviation (i.e. 20% of the Frequency Bias Setting).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-004-0	R 4.	Same Day Operations	Any Reliability Coordinator in an Interconnection shall have the authority to request the Interconnection Time Monitor to terminate a Time Error Correction in progress, or a scheduled Time Error Correction that has not begun, for reliability considerations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-004-0	R 4.1.	Same Day Operations	Balancing Authorities that have reliability concerns with the execution of a Time Error Correction shall notify their Reliability Coordinator and request the termination of a Time Error Correction in progress.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-005-0	R 1.	Long Term Planning	All generation, transmission, and load operating within an Interconnection must be included within the metered boundaries of a Balancing Authority Area.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

BAL-005-0	R 1.1.	Long Term Planning	Each Generator Operator with generation facilities operating in an Interconnection shall ensure that those generation facilities are included within the metered boundaries of a Balancing Authority Area.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 1.2.	Long Term Planning	Each Transmission Operator with transmission facilities operating in an Interconnection shall ensure that those transmission facilities are included within the metered boundaries of a Balancing Authority Area.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 1.3.	Long Term Planning	Each Load-Serving Entity with load operating in an Interconnection shall ensure that those loads are included within the metered boundaries of a Balancing Authority Area.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 12.	Long Term Planning	Each Balancing Authority shall include all Tie Line flows with Adjacent Balancing Authority Areas in the ACE calculation.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 2.	Real Time Operation	Each Balancing Authority shall maintain Regulating Reserve that can be controlled by AGC to meet the Control Performance Standard.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 3.	Long Term Planning	A Balancing Authority providing Regulation Service shall ensure that adequate metering, communications and control equipment are employed to prevent such service from becoming a Burden on the Interconnection or other Balancing Authority Areas.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 4.	Real Time Operation	A Balancing Authority providing Regulation Service shall notify the Host Balancing Authority for whom it is controlling if it is unable to provide the service, as well as any Intermediate Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 5.	Long Term Planning	A Balancing Authority receiving Regulation Service shall ensure that backup plans are in place to provide replacement Regulation Service should the supplying Balancing Authority no longer be able to provide this service.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 6.	Real Time Operation	The Balancing Authority's AGC shall compare total Net Actual Interchange to total Net Scheduled Interchange plus Frequency Bias obligation to determine the Balancing Authority's ACE. Single Balancing Authorities operating asynchronously may employ alternative ACE calculations such as (but not limited to) flat frequency control. If a Balancing Authority is unable to calculate ACE for more than 30 minutes it shall notify its Reliability Coordinator.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 7.	Real Time Operation	The Balancing Authority shall operate AGC continuously unless such operation adversely impacts the reliability of the Interconnection. If AGC has become inoperative, the Balancing Authority shall use manual control to adjust generation to maintain the Net Scheduled Interchange.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 8.	Real Time Operation	The Balancing Authority shall ensure that data acquisition for and calculation of ACE occur at least every six seconds.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 8.1.	Real Time Operation	Each Balancing Authority shall provide redundant and independent frequency metering equipment that shall automatically activate upon detection of failure of the primary source. This overall installation shall provide a minimum availability of 99.95%.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 9.	Long Term Planning	The Balancing Authority shall include all Interchange Schedules with Adjacent Balancing Authorities in the calculation of Net Scheduled Interchange for the ACE equation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R 9.1.	Long Term Planning	Balancing Authorities with a high voltage direct current (HVDC) link to another Balancing Authority connected asynchronously to their Interconnection may choose to omit the Interchange Schedule related to the HVDC link from the ACE equation if it is modeled as internal generation or load.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R10.	Long Term Planning	The Balancing Authority shall include all Dynamic Schedules in the calculation of Net Scheduled Interchange for the ACE equation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R11.	Long Term Planning	Balancing Authorities shall include the effect of Ramp rates, which shall be identical and agreed to between affected Balancing Authorities, in the Scheduled Interchange values to calculate ACE.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

BAL-005-0	R12.1.	Long Term Planning	Balancing Authorities that share a tie shall ensure Tie Line MW metering is telemetered to both control centers, and emanates from a common, agreed-upon source using common primary metering equipment. Balancing Authorities shall ensure that megawatt-hour data is telemetered or reported at the end of each hour.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R12.2.	Long Term Planning	Balancing Authorities shall ensure the power flow and ACE signals that are utilized for calculating Balancing Authority performance or that are transmitted for Regulation Service are not filtered prior to transmission, except for the Anti-aliasing Filters of Tie Lines.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R12.3.	Long Term Planning	Balancing Authorities shall install common metering equipment where Dynamic Schedules or Pseudo-Ties are implemented between two or more Balancing Authorities to deliver the output of Jointly Owned Units or to serve remote load.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R13.	Real Time Operation	Each Balancing Authority shall perform hourly error checks using Tie Line megawatt-hour meters with common time synchronization to determine the accuracy of its control equipment. The Balancing Authority shall adjust the component (e.g., Tie Line meter) of ACE that is in error (if known) or use the interchange meter error (IME) term of the ACE equation to compensate for any equipment error until repairs can be made.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R14.	Long Term Planning	The Balancing Authority shall provide its operating personnel with sufficient instrumentation and data recording equipment to facilitate monitoring of control performance, generation response, and after-the-fact analysis of area performance. As a minimum, the Balancing Authority shall provide its operating personnel with real-time values for ACE, Interconnection frequency and Net Actual Interchange with each Adjacent Balancing Authority Area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R15.	Long Term Planning	The Balancing Authority shall provide adequate and reliable backup power supplies and shall periodically test these supplies at the Balancing Authority's control center and other critical locations to ensure continuous operation of AGC and vital data recording equipment during loss of the normal power supply.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R16.	Long Term Planning	The Balancing Authority shall sample data at least at the same periodicity with which ACE is calculated. The Balancing Authority shall flag missing or bad data for operator display and archival purposes. The Balancing Authority shall collect coincident data to the greatest practical extent, i.e., ACE, Interconnection frequency, Net Actual Interchange, and other data shall all be sampled at the same time.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
BAL-005-0	R17.	Long Term Planning	Each Balancing Authority shall at least annually check and calibrate its time error and frequency devices against a common reference. The Balancing Authority shall adhere to the minimum values for measuring devices as listed below: See Standard for Values	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 1.	Same Day Operations	Each Balancing Authority shall calculate and record hourly Inadvertent Interchange.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 2.	Long Term Planning	Each Balancing Authority shall include all AC tie lines that connect to its Adjacent Balancing Authority Areas in its Inadvertent Interchange account. The Balancing Authority shall take into account interchange served by jointly owned generators.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 3.	Long Term Planning	Each Balancing Authority shall ensure all of its Balancing Authority Area interconnection points are equipped with common megawatt-hour meters, with readings provided hourly to the control centers of Adjacent Balancing Authorities.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 4.	Long Term Planning	Adjacent Balancing Authority Areas shall operate to a common Net Interchange Schedule and Actual Net Interchange value and shall record these hourly quantities, with like values but opposite sign. Each Balancing Authority shall compute its Inadvertent Interchange based on the following:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

BAL-006-0	R 4.1.	Long Term Planning	Each Balancing Authority, by the end of the next business day, shall agree with its Adjacent Balancing Authorities to:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 4.1.1.	Long Term Planning	The hourly values of Net Interchange Schedule.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 4.1.2.	Long Term Planning	The hourly integrated megawatt-hour values of Net Actual Interchange.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 4.2.	Long Term Planning	Each Balancing Authority shall use the agreed-to daily and monthly accounting data to compile its monthly accumulated Inadvertent Interchange for the On-Peak and Off-Peak hours of the month.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 4.3.	Long Term Planning	A Balancing Authority shall make after-the-fact corrections to the agreed-to daily and monthly accounting data only as needed to reflect actual operating conditions (e.g. a meter being used for control was sending bad data). Changes or corrections based on non-reliability considerations shall not be reflected in the Balancing Authority's Inadvertent Interchange. After-the-fact corrections to scheduled or actual values will not be accepted without agreement of the Adjacent Balancing Authority(ies).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
BAL-006-0	R 5.	Operations Assessment	Adjacent Balancing Authorities that cannot mutually agree upon their respective Net Actual Interchange or Net Scheduled Interchange quantities by the 15th calendar day of the following month shall, for the purposes of dispute resolution, submit a report to their respective Regional Reliability Organization Survey Contact. The report shall describe the nature and the cause of the dispute as well as a process for correcting the discrepancy.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
CIP-001-0	R 1.	Long Term Planning	Each Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, and Load Serving Entity shall have procedures for the recognition of and for making their operating personnel aware of sabotage events on its facilities and multi site sabotage affecting larger portions of the Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
CIP-001-0	R 2.	Long Term Planning	Each Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, and Load Serving Entity shall have procedures for the communication of information concerning sabotage events to appropriate parties in the Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
CIP-001-0	R 3.	Long Term Planning	Each Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, and Load Serving Entity shall provide its operating personnel with sabotage response guidelines, including personnel to contact, for reporting disturbances due to sabotage events.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
CIP-001-0	R 4.	Long Term Planning	Each Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, and Load Serving Entity shall establish communications contacts, as applicable, with local Federal Bureau of Investigation (FBI) or Royal Canadian Mounted Police (RCMP) officials and develop reporting procedures as appropriate to their circumstances.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 1.	Long Term Planning	Each Reliability Coordinator, Transmission Operator and Balancing Authority shall provide adequate and reliable telecommunications facilities the exchange of Interconnection and operating information:	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 1.1.	Long Term Planning	Internally.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 1.2.	Long Term Planning	Between the Reliability Coordinator and its Transmission Operators and Balancing Authorities.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 1.3.	Long Term Planning	With other Reliability Coordinators, Transmission Operators, and Balancing Authorities as necessary to maintain reliability.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 1.4.	Long Term Planning	Where applicable, these facilities shall be redundant and diversely routed.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 2.	Same Day Operations	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall manage, alarm, test and/or actively monitor vital telecommunications facilities. Special attention shall be given to emergency telecommunications facilities and equipment not used for routine communications.	Medium	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

COM-001-0	R 3.	Long Term Planning	Each Reliability Coordinator, Transmission Operator and Balancing Authority shall provide a means to coordinate telecommunications among their respective areas. This coordination shall include the ability to investigate and recommend solutions to telecommunications problems within the area and with other areas.	Lower	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 4.	Same Day Operations	Unless agreed to otherwise, each Reliability Coordinator, Transmission Operator, and Balancing Authority shall use English as the language for all communications between and among operating personnel responsible for the real-time generation control and operation of the interconnected Bulk Electric System. Transmission Operators and Balancing Authorities may use an alternate language for internal operations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 5.	Long Term Planning	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall have written operating instructions and procedures to enable continued operation of the system during the loss of telecommunications facilities.	Lower	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-001-0	R 6.	Long Term Planning	Each NERCNet User Organization shall adhere to the requirements in Attachment 1-COM-001-0, "NERCNet Security Policy."	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-002-0	R 1.	Real Time Operation	Each Transmission Operator, Balancing Authority, and Generator Operator shall have communications (voice and data links) with appropriate Reliability Coordinators, Balancing Authorities, and Transmission Operators. Such communications shall be staffed and available for addressing a real-time emergency condition.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-002-0	R 2.	Real Time Operation	Each Balancing Authority and Transmission Operator shall notify its Reliability Coordinator, and all other potentially affected Balancing Authorities and Transmission Operators through predetermined communication paths of any condition that could threaten the reliability of its area or when firm load shedding is anticipated. The following information shall be conveyed to others in the Interconnection via an Interconnection-wide telecommunications system:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-002-0	R 2.1.	Real Time Operation	The Balancing Authority is unable to purchase capacity or energy to meet its demand and reserve requirements on a day-ahead or hour-by-hour basis.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-002-0	R 2.2.	Real Time Operation	The Transmission Operator recognizes that potential or actual line loadings, and voltage or reactive levels are such that a single Contingency could threaten the reliability of the Interconnection. (Once a single Contingency occurs, the Transmission Operator must prepare for the next Contingency.)	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-002-0	R 2.3.	Real Time Operation	The Transmission Operator anticipates initiating a 3% or greater voltage reduction, public appeals for load curtailments, or firm load shedding for other than local problems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
COM-002-0	R 3.	Real Time Operation	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall issue directives in a clear, concise, and definitive manner; shall ensure the recipient of the directive repeats the information back correctly; and shall acknowledge the response as correct or repeat the original statement to resolve any misunderstandings.	High	<input type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 1.	Long Term Planning	Balancing Authorities shall have operating agreements with adjacent Balancing Authorities that shall, at a minimum, contain provisions for emergency assistance, including provisions to obtain emergency assistance from remote Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 2.	Long Term Planning	The Transmission Operator shall have an emergency load reduction plan for all identified IROLs. The plan shall include the details on how the Transmission Operator will implement load reduction in sufficient amount and time to mitigate the IROL violation before system separation or collapse would occur. The load reduction plan must be capable of being implemented within 30 minutes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 3.	Long Term Planning	Each Transmission Operator and Balancing Authority shall:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

EOP-001-0	R 3.1.	Long Term Planning	Develop, maintain, and implement a set of plans to mitigate operating emergencies for insufficient generating capacity.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 3.2.	Long Term Planning	Develop, maintain, and implement a set of plans to mitigate operating emergencies on the transmission system.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 3.3.	Long Term Planning	Develop, maintain, and implement a set of plans for load shedding.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 3.4.	Long Term Planning	Develop, maintain, and implement a set of plans for system restoration.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 4.	Long Term Planning	Each Transmission Operator and Balancing Authority shall have emergency plans that will enable it to mitigate operating emergencies. At a minimum, Transmission Operator and Balancing Authority emergency plans shall include:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 4.1.	Long Term Planning	Communications protocols to be used during emergencies.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 4.2.	Long Term Planning	A list of controlling actions to resolve the emergency. Load reduction, in sufficient quantity to resolve the emergency within NERC-established timelines, shall be one of the controlling actions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 4.3.	Long Term Planning	The tasks to be coordinated with and among adjacent Transmission Operators and Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 4.4.	Long Term Planning	Staffing levels for the emergency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 5.	Long Term Planning	Each Transmission Operator and Balancing Authority shall include the applicable elements in Attachment 1-EOP-001-0 when developing an emergency plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 6.	Long Term Planning	The Transmission Operator and Balancing Authority shall annually review and update each emergency plan. The Transmission Operator and Balancing Authority shall provide a copy of its updated emergency plans to its Reliability Coordinator and to neighboring Transmission Operators and Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 7.	Long Term Planning	The Transmission Operator and Balancing Authority shall coordinate its emergency plans with other Transmission Operators and Balancing Authorities as appropriate. This coordination includes the following steps, as applicable:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 7.1.	Long Term Planning	The Transmission Operator and Balancing Authority shall establish and maintain reliable communications between interconnected systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 7.2.	Long Term Planning	The Transmission Operator and Balancing Authority shall arrange new interchange agreements to provide for emergency capacity or energy transfers if existing agreements cannot be used.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 7.3.	Long Term Planning	The Transmission Operator and Balancing Authority shall coordinate transmission and generator maintenance schedules to maximize capacity or conserve the fuel in short supply. (This includes water for hydro generators.)	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-001-0	R 7.4.	Long Term Planning	The Transmission Operator and Balancing Authority shall arrange deliveries of electrical energy or fuel from remote systems through normal operating channels.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 1.	Long Term Planning and Real Time Operation	Each Balancing Authority and Reliability Coordinator shall have the responsibility and clear decision-making authority to take whatever actions are needed to ensure the reliability of its respective area and shall exercise specific authority to alleviate capacity and energy emergencies.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 2.	Real Time Operation	Each Balancing Authority and Reliability Coordinator shall implement its capacity and energy emergency plan, when required and as appropriate, to reduce risks to the interconnected system.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 3.	Real Time Operation	A Balancing Authority that is experiencing an operating capacity or energy emergency shall communicate its current and future system conditions to its Reliability Coordinator and neighboring Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 4.	Real Time Operation	A Reliability Coordinator that is experiencing an operating capacity or energy emergency shall communicate its current and future system conditions to neighboring areas.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

EOP-002-0	R 5.	Real Time Operation	A Balancing Authority anticipating an operating capacity or energy emergency shall perform all actions necessary including bringing on all available generation, postponing equipment maintenance, scheduling interchange purchases in advance, and being prepared to reduce firm load.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 6.	Real Time Operation	A deficient Balancing Authority shall only use the assistance provided by the Interconnection's frequency bias for the time needed to implement corrective actions. The Balancing Authority shall not unilaterally adjust generation in an attempt to return Interconnection frequency to normal beyond that supplied through frequency bias action and Interchange Schedule changes. Such unilateral adjustment may overload transmission facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.	Real Time Operation	If the Balancing Authority cannot comply with the Control Performance and Disturbance Control Standards, then it shall immediately implement remedies to do so. These remedies include, but are not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.1.	Real Time Operation	Loading all available generating capacity.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.2.	Real Time Operation	Deploying all available operating reserve.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.3.	Real Time Operation	Interrupting interruptible load and exports.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.4.	Real Time Operation	Requesting emergency assistance from other Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.5.	Real Time Operation	Declaring an Energy Emergency through its Reliability Coordinator; and	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 7.6.	Real Time Operation	Reducing load, through procedures such as public appeals, voltage reductions, curtailing interruptible loads and firm loads.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 8.	Real Time Operation	Once the Balancing Authority has exhausted the steps listed in Requirement 7, or if these steps cannot be completed in sufficient time to resolve the emergency condition, the Balancing Authority shall:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 8.1.	Real Time Operation	Manually shed firm load without delay to return its ACE to zero; and	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 8.2.	Real Time Operation	Request the Reliability Coordinator to declare an Energy Emergency Alert in accordance with Attachment 1-EOP-002-0 "Energy Emergency Alert Levels."	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R 9.	Real Time Operation	A Reliability Coordinator that has any Balancing Authority within its Reliability Coordinator area experiencing a potential or actual Energy Emergency shall initiate an Energy Emergency Alert as detailed in Attachment 1-EOP-002-0 "Energy Emergency Alert Levels." The Reliability Coordinator shall act to mitigate the emergency condition, including a request for emergency assistance if required.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R10.	Real Time Operation	When a Transmission Service Provider expects to elevate the transmission service priority of an Interchange Transaction from Priority 6 (Network Integration Transmission Service from Non-designated Resources) to Priority 7 (Network Integration Transmission Service from designated Network Resources) as permitted in its transmission tariff (See Attachment 1-IRO-006-0 "Transmission Loading Relief Procedure" for explanation of Transmission Service Priorities):	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R10.1.	Real Time Operation	The deficient Load-Serving Entity shall request its Reliability Coordinator to initiate an Energy Emergency Alert in accordance with Attachment 1-EOP-002-0.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R10.2.	Real Time Operation	The Reliability Coordinator shall submit the report to NERC for posting on the NERC Website, noting the expected total MW that may have its transmission service priority changed.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-002-0	R10.3.	Real Time Operation	The Reliability Coordinator shall use EEA 1 to forecast the change of the priority of transmission service of an Interchange Transaction on the system from Priority 6 to Priority 7.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

EOP-002-0	R10.4.	Real Time Operation	The Reliability Coordinator shall use EEA 2 to announce the change of the priority of transmission service of an Interchange Transaction on the system from Priority 6 to Priority 7.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 1.	Real Time Operation	After taking all other remedial steps, a Transmission Operator or Balancing Authority operating with insufficient generation or transmission capacity shall shed customer load rather than risk an uncontrolled failure of components or cascading outages of the Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 2.	Long Term Planning	Each Transmission Operator and Balancing Authority shall establish plans for automatic load shedding for underfrequency or undervoltage conditions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 3.	Long Term Planning	Each Transmission Operator and Balancing Authority shall coordinate load shedding plans among other interconnected Transmission Operators and Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 4.	Long Term Planning	A Transmission Operator or Balancing Authority shall consider one or more of these factors in designing an automatic load shedding scheme: frequency, rate of frequency decay, voltage level, rate of voltage decay, or power flow levels.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 5.	Real Time Operation	A Transmission Operator or Balancing Authority shall implement load shedding in steps established to minimize the risk of further uncontrolled separation, loss of generation, or system shutdown.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 6.	Real Time Operation	After a Transmission Operator or Balancing Authority Area separates from the Interconnection, if there is insufficient generating capacity to restore system frequency following automatic underfrequency load shedding, the Transmission Operator or Balancing Authority shall shed additional load.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 7.	Real Time Operation	The Transmission Operator and Balancing Authority shall coordinate automatic load shedding throughout their areas with underfrequency isolation of generating units, tripping of shunt capacitors, and other automatic actions that will occur under abnormal frequency, voltage, or power flow conditions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-003-0	R 8.	Long Term Planning	Each Transmission Operator or Balancing Authority shall have plans for operator-controlled manual load shedding to respond to real-time emergencies. The Transmission Operator or Balancing Authority shall be capable of implementing the load shedding in a timeframe adequate for responding to the emergency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-004-0	R 1.	Long Term Planning	Each Regional Reliability Organization shall establish and maintain a Regional reporting procedure to facilitate preparation of preliminary and final disturbance reports.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-004-0	R 2.	Operations Assessment	A Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator or Load Serving Entity shall promptly analyze Bulk Electric System disturbances on its system or facilities.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
EOP-004-0	R 3.	Operations Assessment	A Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator or Load Serving Entity experiencing a reportable incident shall provide a preliminary written report to its Regional Reliability Organization and NERC.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-004-0	R 3.1.	Operations Assessment	The affected Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator or Load Serving Entity shall submit within 24 hours of the disturbance or unusual occurrence either a copy of the report submitted to DOE, or, if no DOE report is required, a copy of the NERC Interconnection Reliability Operating Limit and Preliminary Disturbance Report form. Events that are not identified until some time after they occur shall be reported within 24 hours of being recognized.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-004-0	R 3.2.	Operations Assessment	Applicable reporting forms are provided in Attachments 022-1 and 022-2.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

EOP-004-0	R 3.3.	Operations Assessment	Under certain adverse conditions, e.g., severe weather, it may not be possible to assess the damage caused by a disturbance and issue a written Interconnection Reliability Operating Limit and Preliminary Disturbance Report within 24 hours. In such cases, the affected Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, or Load Serving Entity shall promptly notify its Regional Reliability Organization(s) and NERC, and verbally provide as much information as is available at that time. The affected Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, or Load Serving Entity shall then provide timely, periodic verbal updates until adequate information is available to issue a written Preliminary Disturbance Report.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-004-0	R 3.4.	Operations Assessment	If, in the judgment of the Regional Reliability Organization, after consultation with the Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, or Load Serving Entity in which a disturbance occurred, a final report is required, the affected Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, or Load Serving Entity shall prepare this report within 60 days. As a minimum, the final report shall have a discussion of the events and its cause, the conclusions reached, and recommendations to prevent recurrence of this type of event. The report shall be subject to Regional Reliability Organization approval.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-004-0	R 4.	Operations Assessment	When a Bulk Electric System disturbance occurs, the Regional Reliability Organization shall make its representatives on the NERC Operating Committee and Disturbance Analysis Working Group available to the affected Reliability Coordinator, Balancing Authority, Transmission Operator, Generator Operator, or Load Serving Entity immediately affected by the disturbance for the purpose of providing any needed assistance in the investigation and to assist in the preparation of a final report.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-004-0	R 5.	Operations Assessment	The Regional Reliability Organization shall track and review the status of all final report recommendations at least twice each year to ensure they are being acted upon in a timely manner. If any recommendation has not been acted on within two years, or if Regional Reliability Organization tracking and review indicates at any time that any recommendation is not being acted on with sufficient diligence, the Regional Reliability Organization shall notify the NERC Planning Committee and Operating Committee of the status of the recommendation(s) and the steps the Regional Reliability Organization has taken to accelerate implementation.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-005-0	R 1.	Long Term Planning	Each Transmission Operator shall have a restoration plan to reestablish its electric system in a stable and orderly manner in the event of a partial or total shutdown of its system, including necessary operating instructions and procedures to cover emergency conditions, and the loss of vital telecommunications channels. Each Transmission Operator shall include the applicable elements listed in Attachment 1-EOP-005-0 in developing a restoration plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 2.	Long Term Planning	Each Transmission Operator shall review and update its restoration plan at least annually and whenever it makes changes in the power system network, and shall correct deficiencies found during the simulated restoration exercises.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 3.	Long Term Planning	Each Transmission Operator shall develop restoration plans with a priority of restoring the integrity of the Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 4.	Long Term Planning	Each Transmission Operator shall coordinate its restoration plans with Balancing Authorities within its area, its Reliability Coordinator, and neighboring Transmission Operators and Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

EOP-005-0	R 5.	Long Term Planning	Each Transmission Operator and Balancing Authority shall periodically test its telecommunication facilities needed to implement the restoration plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 6.	Long Term Planning	Each Transmission Operator and Balancing Authority shall train its operating personnel in the implementation of the restoration plan. Such training shall include simulated exercises, if practicable.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 7.	Long Term Planning	Each Transmission Operator and Balancing Authority shall verify the restoration procedure by actual testing or by simulation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 8.	Long Term Planning	Each Transmission Operator shall ensure the availability and location of black start capability within its area to meet the needs of the restoration plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.	Real Time Operation	Following a disturbance in which one or more areas of the Bulk Electric System become isolated or blacked out, the affected Transmission Operators and Balancing Authorities shall begin immediately to return the Bulk Electric System to normal.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.1.	Real Time Operation	The affected Transmission Operators and Balancing Authorities shall work in conjunction with their Reliability Coordinator(s) to determine the extent and condition of the isolated area(s).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.2.	Real Time Operation	The affected Transmission Operators and Balancing Authorities shall take the necessary actions to restore Bulk Electric System frequency to normal, including adjusting generation, placing additional generators online, or load shedding.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.3.	Real Time Operation	The affected Balancing Authorities, working with their Reliability Coordinator(s), shall immediately review the Interchange Schedules between those Balancing Authority Areas or fragments of those Balancing Authority Areas within the separated area and make adjustments as needed to facilitate the restoration. The affected Balancing Authorities shall make all attempts to maintain the adjusted Interchange Schedules, whether generation control is manual or automatic.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.4.	Real Time Operation	The affected Transmission Operators shall give high priority to restoration of off-site power to nuclear stations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.5.	Real Time Operation	The affected Transmission Operators may resynchronize the isolated area(s) with the surrounding area(s) when the following conditions are met:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.5.1.	Real Time Operation	Voltage, frequency, and phase angle permit.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.5.2.	Real Time Operation	The size of the area being reconnected and the capacity of the transmission lines effecting the reconnection and the number of synchronizing points across the system are considered.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.5.3.	Real Time Operation	Reliability Coordinator(s) and adjacent areas are notified and Reliability Coordinator approval is given.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-005-0	R 9.5.4.	Real Time Operation	Load is shed in neighboring areas, if required, to permit successful interconnected system restoration.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-006-0	R 1.	Long Term Planning	Each Reliability Coordinator shall be aware of the restoration plan of each Transmission Operator in its Reliability Coordinator Area in accordance with NERC and regional requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-006-0	R 2.	Real Time Operation	The Reliability Coordinator shall monitor restoration progress and coordinate any needed assistance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-006-0	R 3.	Long Term Planning	The Reliability Coordinator shall have a Reliability Coordinator Area restoration plan that provides coordination between individual Transmission Operator restoration plans and that ensures reliability is maintained during system restoration events.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-006-0	R 4.	Real Time Operation	The Reliability Coordinator shall serve as the primary contact for disseminating information regarding restoration to neighboring Reliability Coordinators and Transmission Operators or Balancing Authorities not immediately involved in restoration.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-006-0	R 5.	Real Time Operation	Reliability Coordinators shall approve, communicate, and coordinate the re-synchronizing of major system islands or synchronizing points so as not to cause a Burden on adjacent Transmission Operator, Balancing Authority, or Reliability Coordinator Areas.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

EOP-006-0	R 6.	Real Time Operation	The Reliability Coordinator shall take actions to restore normal operations once an operating emergency has been mitigated in accordance with its restoration plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.	Long Term Planning	[High only because of R 1.2's importance.] Each Regional Reliability Organization shall establish and maintain a system BCP, as part of an overall coordinated Regional SRP. The Regional SRP shall include requirements for verification through analysis how system blackstart generating units shall perform their intended functions and shall be sufficient to meet SRP expectations. The Regional Reliability Organization shall coordinate with and among other Regional Reliability Organizations as appropriate in the development of its BCP. The BCP shall include:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.1.	Long Term Planning	[High only because of R 1.2's importance.] A requirement to have a database that contains all blackstart generators designated for use in an SRP within the respective areas. This database shall be updated on an annual basis. The database shall include the name, location, megawatt capacity, type of unit, latest date of test, and starting method.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.2.	Long Term Planning	[High only because of R 1.2's importance.] A requirement to demonstrate that blackstart units perform their intended functions as required in the Regional SRP. This requirement can be met through either simulation or testing. The BCP must consider the availability of designated BCP units and initial transmission switching requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.3.	Long Term Planning	[High only because of R 1.2's importance.] Blackstart unit testing requirements including, but not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.3.1.	Long Term Planning	Testing frequency (minimum of one third of the units each year).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.3.2.	Long Term Planning	[High only because of R 1.2's importance.] Type of test required, including the requirement to start when isolated from the system.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.3.3.	Long Term Planning	[High only because of R 1.2's importance.] Minimum duration of tests.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 1.4.	Long Term Planning	[High only because of R 1.2's importance.] A requirement to review and update the Regional BCP at least every five years.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-007-0	R 2.	Long Term Planning	The Regional Reliability Organization shall provide documentation of its system BCPs to NERC within 30 calendar days of a request.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
EOP-008-0	R 1.	Long Term Planning	Each Reliability Coordinator, Transmission Operator and Balancing Authority shall have a plan to continue reliability operations in the event its control center becomes inoperable. The contingency plan must meet the following requirements:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.1.	Long Term Planning	The contingency plan shall not rely on data or voice communication from the primary control facility to be viable.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.2.	Long Term Planning	The plan shall include procedures and responsibilities for providing basic tie line control and procedures and for maintaining the status of all inter-area schedules, such that there is an hourly accounting of all schedules.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.3.	Long Term Planning	The contingency plan must address monitoring and control of critical transmission facilities, generation control, voltage control, time and frequency control, control of critical substation devices, and logging of significant power system events. The plan shall list the critical facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.4.	Long Term Planning	The plan shall include procedures and responsibilities for maintaining basic voice communication capabilities with other areas.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.5.	Long Term Planning	The plan shall include procedures and responsibilities for conducting periodic tests, at least annually, to ensure viability of the plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.6.	Long Term Planning	The plan shall include procedures and responsibilities for providing annual training to ensure that operating personnel are able to implement the contingency plans.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-008-0	R 1.7.	Long Term Planning	The plan shall be reviewed and updated annually.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

EOP-008-0	R 1.8.	Long Term Planning	Interim provisions must be included if it is expected to take more than one hour to implement the contingency plan for loss of primary control facility.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-009-0	R 1.	Operations Assessment	The Generator Operator of each blackstart generating unit shall test the startup and operation of each system blackstart generating unit identified in the BCP as required in the Regional BCP (Reliability Standard EOP-007-0_R1). Testing records shall include the dates of the tests, the duration of the tests, and an indication of whether the tests met Regional BCP requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
EOP-009-0	R 2.	Operations Assessment	The Generator Owner or Generator Operator shall provide documentation of the test results of the startup and operation of each blackstart generating unit to the Regional Reliability Organizations and upon request to NERC.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-001-0	R 1.	Long Term Planning	The Transmission Owner shall document, maintain, and publish facility connection requirements to ensure compliance with NERC Reliability Standards and applicable Regional Reliability Organization, subregional, Power Pool, and individual Transmission Owner planning criteria and facility connection requirements. The Transmission Owner's facility connection requirements shall address connection requirements for:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 1.1.	Long Term Planning	Generation facilities,	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 1.2.	Long Term Planning	Transmission facilities, and	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 1.3.	Long Term Planning	End-user facilities	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.	Long Term Planning	The Transmission Owner's facility connection requirements shall address, but are not limited to, the following items:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.	Long Term Planning	Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.1.	Long Term Planning	Procedures for coordinated joint studies of new facilities and their impacts on the interconnected transmission systems.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.10.	Long Term Planning	Power quality impacts.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.11.	Long Term Planning	Equipment Ratings.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.12.	Long Term Planning	Synchronizing of facilities.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.13.	Long Term Planning	Maintenance coordination.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.14.	Long Term Planning	Operational issues (abnormal frequency and voltages).	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.15.	Long Term Planning	Inspection requirements for existing or new facilities.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.16.	Long Term Planning	Communications and procedures during normal and emergency operating conditions.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.2.	Long Term Planning	Procedures for notification of new or modified facilities to others (those responsible for the reliability of the interconnected transmission systems) as soon as feasible.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.3.	Long Term Planning	Voltage level and MW and MVAR capacity or demand at point of connection.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.4.	Long Term Planning	Breaker duty and surge protection.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.5.	Long Term Planning	System protection and coordination.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.6.	Long Term Planning	Metering and telecommunications.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.7.	Long Term Planning	Grounding and safety issues.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.8.	Long Term Planning	Insulation and insulation coordination.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-001-0	R 2.1.9.	Long Term Planning	Voltage, Reactive Power, and power factor control.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

FAC-001-0	R 3.	Long Term Planning	The Transmission Owner shall maintain and update its facility connection requirements as required. The Transmission Owner shall make documentation of these requirements available to the users of the transmission system, the Regional Reliability Organization, and NERC on request (five business days).	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 1.	Long Term Planning	The Generator Owner, Transmission Owner, Distribution Provider, and Load-Serving Entity seeking to integrate generation facilities, transmission facilities, and electricity end-user facilities shall each coordinate and cooperate on its assessments with its Transmission Planner and Planning Authority. The assessment shall include:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 1.1.	Long Term Planning	Evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 1.2.	Long Term Planning	Ensurance of compliance with NERC Reliability Standards and applicable Regional, subregional, Power Pool, and individual system planning criteria and facility connection requirements.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 1.3.	Long Term Planning	Evidence that the parties involved in the assessment have coordinated and cooperated on the assessment of the reliability impacts of new facilities on the interconnected transmission systems. While these studies may be performed independently, the results shall be jointly evaluated and coordinated by the entities involved.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 1.4.	Long Term Planning	Evidence that the assessment included steady-state, short-circuit, and dynamics studies as necessary to evaluate system performance in accordance with Reliability Standard TPL-001-0.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 1.5.	Long Term Planning	Documentation that the assessment included study assumptions, system performance, alternatives considered, and jointly coordinated recommendations.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-002-0	R 2.	Long Term Planning	The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load-Serving Entity, and Distribution Provider shall each retain its documentation (of its evaluation of the reliability impact of the new facilities and their connections on the interconnected transmission systems) for three years and shall provide the documentation to the Regional Reliability Organization(s) Regional Reliability Organization(s) and NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-003-0	R 1.	Long Term Planning	Each Transmission Owner shall have a vegetation management program to prevent transmission line contact with vegetation. The vegetation management program shall include the following three elements:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
FAC-003-0	R 1.1.	Long Term Planning	Inspection requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
FAC-003-0	R 1.2.	Long Term Planning	Trimming clearances.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
FAC-003-0	R 1.3.	Long Term Planning	Annual work plan.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
FAC-003-0	R 2.	Long Term Planning	Each Transmission Owner shall report to its Regional Reliability Organization all vegetation-related outages on transmission circuits 200 kV and higher and any other lower voltage lines designated by the Regional Reliability Organization to be critical to the reliability of the electric system.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.	Long Term Planning	The Transmission Owner and Generator Owner shall each document the methodology(ies) used to determine its electrical equipment and Facility Rating. Further, the methodology(ies) shall comply with applicable Regional Reliability Organization requirements. The documentation shall address and include	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.	Long Term Planning	The methodology(ies) used to determine equipment and Facility Rating of the items listed for both normal and emergency conditions:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.1.	Long Term Planning	Transmission circuits.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

FAC-004-0	R 1.1.2.	Long Term Planning	Transformers.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.3.	Long Term Planning	Series and shunt reactive elements.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.4.	Long Term Planning	Terminal equipment (e.g., switches, breakers, current transformers, etc).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.5.	Long Term Planning	VAR compensators.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.6.	Long Term Planning	High voltage direct current converters.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.1.7.	Long Term Planning	Any other device listed as a Limiting Element.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.2.	Long Term Planning	The Rating of a facility shall not exceed the Rating(s) of the most Limiting Element(s) in the circuit, including terminal connections and associated equipment.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-004-0	R 1.3.	Long Term Planning	In cases where protection systems and control settings constitute a loading limit on a facility, this limit shall become the Rating for that facility.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-004-0	R 1.4.	Long Term Planning	Ratings of jointly-owned and jointly-operated facilities shall be coordinated among the joint owners and joint operators resulting in a single set of Ratings.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 1.5.	Long Term Planning	The documentation shall identify the assumptions used to determine each of the equipment and Facility Ratings, including references to industry Rating practices and standards (e.g., ANSI, IEEE, etc.). Seasonal Ratings and variations in assumptions shall be included.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-004-0	R 2.	Long Term Planning	The Transmission Owner and Generator Owner shall provide documentation of the methodology(ies) used to determine its transmission equipment and Facility Ratings to the Regional Reliability Organization(s) and NERC on request (30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-005-0	R 1.	Long Term Planning	The transmission Owner, and Generator Owner shall each have on file or be able to readily provide, a document or database identifying the Normal and Emergency Ratings of all of its transmission facilities (e.g., lines, transformers, terminal equipment, and storage devices) that are part of the interconnected transmission systems. Seasonal variations in Ratings shall be included as appropriate.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
FAC-005-0	R 1.1.	Long Term Planning	The Ratings shall be consistent with the entity's methodology(ies) for determining Facility Ratings and shall be updated as facility changes occur.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
FAC-005-0	R 2.	Long Term Planning	The transmission Owner and Generator Owner shall provide the Normal and Emergency Facility Ratings of all its transmission facilities to the Regional Reliability Organization(s) and NERC on request (30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
INT-001-0	R 1.	Real Time Operation	The load-serving Purchasing-Selling Entity shall be responsible for ensuring Tags are submitted for:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 1.1.	Real Time Operation	All Interchange Transactions that are between Balancing Authority Areas	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 1.2.	Real Time Operation	All transfers that are entirely within a Balancing Authority Area using Point-to-Point Transmission Service (including all grandfathered and "non-Order 888" Point-to-Point Transmission service).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 1.3.	Real Time Operation	All Dynamic Schedules at the expected average MW profile for each hour.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 2.	Real Time Operation	The Sink Balancing Authority shall be responsible for ensuring a tag is provided:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 2.1.	Real Time Operation	If a Purchasing-Selling Entity is not involved in the Transaction, such as delivery from a jointly owned generator.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 2.2.	Real Time Operation	To replace unexpected generation loss, such as through prearranged reserve sharing agreements or other arrangements. If the duration of the Emergency Transaction to replace the generation loss is less than 60 minutes, then the Transaction shall be exempt from tagging.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 2.3.	Real Time Operation	All Bilateral Inadvertent Interchange Payback.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

INT-001-0	R 3.	Real Time Operation	The Purchasing Selling Entity responsible for submitting the Tag shall submit all Tags to the Sink Balancing Authority according to timing tables in Attachment 1-INT-001-0.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 4.	Real Time Operation	The Balancing Authority or Purchasing-Selling Entity responsible for submitting the Tag shall include the reliability data listed in Attachment 2-INT-001-0 in the Tag.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-001-0	R 5.	Real Time Operation	Each Purchasing-Selling Entity with title to an Interchange Transaction shall have, or shall arrange to have, personnel directly and immediately available for notification of Interchange Transaction changes. These personnel shall be available from the time that the title to the Interchange Transaction is acquired until the Interchange Transaction has been completed.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 1.	Real Time Operation	The Sink Balancing Authority shall ensure that all Tags and any modifications to Tags are provided via a secure network to the following entities on the Scheduling Path:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 1.1.	Real Time Operation	Sink and Source Balancing Authority for the Transaction.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 1.2.	Real Time Operation	Intermediate Balancing Authorities on the Schedule Path.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 1.3.	Real Time Operation	Transmission Service Provider(s) on the Schedule Path.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 1.4.	Real Time Operation	Reliability analysis services (IDC or other regional reliability tools).	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 1.5.	Real Time Operation	Transmission Operators and Reliability Coordinators who may receive the information through Reliability analysis services.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.	Real Time Operation	Transmission Service Providers on the Scheduling Path shall be responsible for assessing and approving or denying the Interchange Transaction based on established reliability criteria and adequacy of Interconnected Operating Services and transmission rights as well as the reasonableness of the Interchange Transaction Tag. The Transmission Service Provider shall verify and assess:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.1.	Real Time Operation	Valid OASIS reservation number or transmission contract identifier.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.2.	Real Time Operation	Transmission priority matches reservation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.3.	Real Time Operation	Energy profile fits within OASIS reservation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.4.	Real Time Operation	OASIS reservation accommodates all Interchange Transactions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.5.	Real Time Operation	Connectivity of adjacent Transmission Service Providers.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 2.6.	Real Time Operation	Loss accounting.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 3.	Real Time Operation	Balancing Authorities on the Scheduling Path shall be responsible for assessing and approving or denying the	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 3.1.	Real Time Operation	Transaction start and end time.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 3.2.	Real Time Operation	Energy profile (ability to support the magnitude of the transaction).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 3.3.	Real Time Operation	Ramp (ability of generation maneuverability to accommodate).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 3.4.	Real Time Operation	Scheduling path (proper connectivity of adjacent Balancing Authorities).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 4.	Real Time Operation	Each Balancing Authority and Transmission Service Provider on the Scheduling Path shall communicate their approval or denial of the Interchange Transaction to the Sink Balancing Authority.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-002-0	R 5.	Real Time Operation	Upon receipt of approvals or denials from all of the individual Balancing Authorities and Transmission Service Providers, the Sink Balancing Authority shall communicate the composite approval status of the Interchange Transaction to the Purchasing-Selling Entity and all other Balancing Authorities and Transmission Service Providers on the Scheduling Path and through the Reliability analysis service to affected Transmission Operators and Reliability Coordinators.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

INT-003-0	R 1.	Real Time Operation	Each Receiving Balancing Authority shall confirm Interchange Schedules with the Sending Balancing Authority prior to implementation in the Balancing Authority's ACE equation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 1.1.	Real Time Operation	The Sending Balancing Authority and Receiving Balancing Authority shall agree on:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 1.1.1.	Real Time Operation	Interchange Schedule start and end time.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 1.1.2.	Real Time Operation	Energy profile.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 1.1.3.	Real Time Operation	Ramp start time and duration (Balancing Authorities shall use the ramp duration established for their Interconnection unless they agree to an alternative ramp duration.) Default ramps durations are as follows: Default ramp duration for the Eastern Interconnection shall be 10 minutes equally across the Interchange Schedule start and end times. Default ramp duration for the Western Interconnection shall be 20 minutes equally across the Interchange Schedule start and end times. Ramp durations for Interchange Schedules implemented for compliance with NERC's Disturbance Control Standard (recovery from a disturbance condition) and Interchange Transaction curtailment in response to line loading relief	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 1.2.	Real Time Operation	If a high voltage direct current (HVDC) tie is on the Scheduling Path, then the Sending Balancing Authorities and Receiving Balancing Authorities shall coordinate the Interchange Schedule with the Transmission Operator of the HVDC tie.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 1.3.	Real Time Operation	Balancing Authorities that implement Interchange Schedules that cross an Interconnection boundary shall use the same start time and Ramp durations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 2.	Real Time Operation	Balancing Authorities shall implement Interchange Schedules only with Adjacent Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 3.	Real Time Operation	Balancing Authorities shall begin and end Interchange Schedules at a time agreed to by the Source Balancing Authority, Sink Balancing Authority, and Intermediate Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 4.	Real Time Operation	The Sink Balancing Authority shall be responsible for initiating implementation of each Interchange Transaction as tagged. Upon receiving composite approval from the Sink Balancing Authority, each Balancing Authority on the scheduling path shall enter confirmed Schedules into its Automatic Generation Control ACE equation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 5.	Real Time Operation	Balancing Authorities shall operate such that Interchange Schedules do not knowingly cause any other systems to violate established operating criteria.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 6.	Real Time Operation	Balancing Authorities shall operate such that the maximum Net Interchange Schedule between any two Balancing Authorities does not exceed the lesser of:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 6.1.	Real Time Operation	The total capacity of both the owned and arranged-for transmission facilities in service for any Transmission Service Provider along the path, or	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-003-0	R 6.2.	Real Time Operation	The established network Total Transfer Capability between Balancing Authorities, which considers other transmission facilities available to them under specific arrangements, and the overall physical constraints of the transmission network.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 1.	Real Time Operation	If a Reliability Coordinator, Transmission Operator, or Source or Sink Balancing Authority, due to a reliability event, needs to modify an Interchange Transaction that is in progress or scheduled to be started, the entity shall, within 60 minutes of the start of the emergency Transaction, modify the Interchange Transaction Tag, and shall communicate the modification to the Sink Balancing Authority. Reliability events may include:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 1.1.	Real Time Operation	Transmission Loading Relief procedure curtailment — Eastern Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 1.2.	Real Time Operation	Interconnection, regional, or local overload relief or congestion management procedures.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

INT-004-0	R 1.3.	Real Time Operation	SOL or IROL potential or actual limit violation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 1.4.	Real Time Operation	Loss of generation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 1.5.	Real Time Operation	Loss of Load.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 2.	Real Time Operation	A Generator Operator or Load Serving Entity may request the Host Balancing Authority to modify an Interchange Transaction due to loss of generation or load.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
INT-004-0	R 2.1.	Real Time Operation	When a loss of generation necessitates curtailing Interchange Transactions, the Source Balancing Authority shall coordinate the modifications to the appropriate tags.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
INT-004-0	R 2.2.	Real Time Operation	When a loss of Load necessitates curtailing Interchange Transactions, the Sink Balancing Authority shall coordinate the modifications to the appropriate tags.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
INT-004-0	R 3.	Real Time Operation	Upon receipt of modification to an Interchange Transaction as described in Requirement R1, the Sink Balancing Authority (Source Balancing Authority in the case of a loss of generation) shall communicate the modified information about the Interchange Transaction, including its composite approval status, to all Balancing Authorities and Transmission Service Providers on the Transaction path and the Purchasing-Selling Entity responsible for the Transaction.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 4.	Real Time Operation	At such time as the reliability event allows for the reloading of the transaction, the entity that initiated the curtailment shall release the limit on the Interchange Transaction Tag to allow reloading the transaction and shall communicate the release of the limit to the Sink Balancing Authority.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
INT-004-0	R 5.		The Purchasing-Selling Entity responsible for Tagging a Dynamic Interchange Schedule shall ensure the Tag is updated for the next available scheduling hour and future hours when any one of the following occur:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 5.1.		The average energy profile in an hour is greater than 250 MW and in that hour the actual hourly integrated energy deviates from the hourly average energy profile indicated on the Tag by more than +10%.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 5.2.		The average energy profile in an hour is less than or equal to 250 MW and in that hour the actual hourly integrated energy deviates from the hourly average energy profile indicated on the Tag by more than +25 megawatt-hours.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
INT-004-0	R 5.3.		A Reliability Coordinator or Transmission Operator determines the deviation, regardless of magnitude, to be a reliability concern and notifies the Purchasing-Selling Entity of that determination and the reasons.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 1.	Long Term Planning	Each Regional Reliability Organization, subregion, or interregional coordinating group shall establish one or more Reliability Coordinators to continuously assess transmission reliability and coordinate emergency operations among the operating entities within the region and across the regional boundaries.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 2.	Long Term Planning	The Reliability Coordinator shall comply with a regional reliability plan approved by the NERC Operating Committee.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 3.	Long Term Planning and Real Time Operation	The Reliability Coordinator shall have clear decision-making authority to act and to direct actions to be taken by Transmission Operators, Balancing Authorities, Generator Operators, Transmission Service Providers, Load-Serving Entities, and Purchasing-Selling Entities within its Reliability Coordinator Area to preserve the integrity and reliability of the Bulk Electric System. These actions shall be taken without delay, but no longer than 30 minutes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

IRO-001-0	R 4.	Long Term Planning	Reliability Coordinators that delegate tasks to other entities shall have formal operating agreements with each entity to which tasks are delegated. The Reliability Coordinator shall verify that all delegated tasks are understood, communicated, and addressed within its Reliability Coordinator Area. All responsibilities for complying with NERC and regional standards applicable to Reliability Coordinators shall remain with the Reliability Coordinator.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 5.	Long Term Planning	The Reliability Coordinator shall list within its reliability plan all entities to which the Reliability Coordinator has delegated required tasks.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
IRO-001-0	R 6.	Long Term Planning	The Reliability Coordinator shall verify that all delegated tasks are carried out by NERC-certified Reliability Coordinator operating personnel.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 7.	Long Term Planning	The Reliability Coordinator shall have clear, comprehensive coordination agreements with adjacent Reliability Coordinators to ensure that System Operating Limit or Interconnection Reliability Operating Limit violation mitigation requiring actions in adjacent Reliability Coordinator Areas are coordinated.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 8.	Real Time Operation	Transmission Operators, Balancing Authorities, Generator Operators, Transmission Service Providers, Load-Serving Entities, and Purchasing-Selling Entities shall comply with Reliability Coordinator directives unless such actions would violate safety, equipment, or regulatory or statutory requirements. Under these circumstances, the Transmission Operator, Balancing Authority, Generator Operator, Transmission Service Provider, Load-Serving Entity, or Purchasing-Selling Entity shall immediately inform the Reliability Coordinator of the inability to perform the directive so that the Reliability Coordinator may implement alternate remedial actions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-001-0	R 9.	Real Time Operation	The Reliability Coordinator shall act in the interests of reliability for the overall Reliability Coordinator Area and the Interconnection before the interests of any other entity.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 1.	Long Term Planning	Each Reliability Coordinator shall have adequate communications facilities (voice and data links) to appropriate entities within its Reliability Coordinator Area. These communications facilities shall be staffed and available to act in addressing a real-time emergency condition.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 2.	Long Term Planning	Each Reliability Coordinator shall determine the data requirements to support its reliability coordination tasks and shall request such data from its Transmission Operators, Balancing Authorities, Transmission Owners, Generation Owners, Generation Operators, and Load-Serving Entities, or adjacent Reliability Coordinators.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 3.	Long Term Planning	Each Reliability Coordinator – or its Transmission Operators and Balancing Authorities – shall provide, or arrange provisions for, data exchange to other Reliability Coordinators or Transmission Operators and Balancing Authorities via a secure network.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 4.	Long Term Planning	Each Reliability Coordinator shall have multi-directional communications capabilities with its Transmission Operators and Balancing Authorities, and with neighboring Reliability Coordinators, for both voice and data exchange as required to meet reliability needs of the Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

IRO-002-0	R 5.	Long Term Planning	Each Reliability Coordinator shall have detailed real-time monitoring capability of its Reliability Coordinator Area and sufficient monitoring capability of its surrounding Reliability Coordinator Areas to ensure that potential or actual System Operating Limit or Interconnection Reliability Operating Limit violations are identified. Each Reliability Coordinator shall have monitoring systems that provide information that can be easily understood and interpreted by the Reliability Coordinator's operating personnel, giving particular emphasis to alarm management and awareness systems, automated data transfers, and synchronized information systems, over a redundant and highly reliable infrastructure.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 6.	Long Term Planning	Each Reliability Coordinator shall monitor Bulk Electric System elements (generators, transmission lines, buses, transformers, breakers, etc.) that could result in SOL or IROL violations within its Reliability Coordinator Area. Each Reliability Coordinator shall monitor both real and reactive power system flows, and operating reserves, and the status of Bulk Electric System elements that are or could be critical to SOLs and IROLs and system restoration requirements within its Reliability Coordinator Area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 7.	Long Term Planning	Each Reliability Coordinator shall have adequate analysis tools such as state estimation, pre- and post-contingency analysis capabilities (thermal, stability, and voltage), and wide-area overview displays.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 8.	Real Time Operation	Each Reliability Coordinator shall continuously monitor its Reliability Coordinator Area. Each Reliability Coordinator shall have provisions for backup facilities that shall be exercised if the main monitoring system is unavailable. Each Reliability Coordinator shall ensure SOL and IROL monitoring and derivations continue if the main monitoring system is unavailable.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-002-0	R 9.	Real Time Operation	Each Reliability Coordinator shall control its Reliability Coordinator analysis tools, including approvals for planned maintenance. Each Reliability Coordinator shall have procedures in place to mitigate the effects of analysis tool outages.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-003-0	R 1.	Real Time Operation	Each Reliability Coordinator shall monitor all Bulk Electric System facilities, which may include sub-transmission information, within its Reliability Coordinator Area and adjacent Reliability Coordinator Areas, as necessary to ensure that, at any time, regardless of prior planned or unplanned events, the Reliability Coordinator is able to determine any potential System Operating Limit and Interconnection Reliability Operating Limit violations within its Reliability Coordinator Area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-003-0	R 2.	Real Time Operation	When a Reliability Coordinator is aware of an operational concern, such as declining voltages, excessive reactive flows, or an IROL violation, in a neighboring Reliability Coordinator Area, it shall contact the Reliability Coordinator in whose area the operational concern was observed. The two Reliability Coordinators shall coordinate any actions, including emergency assistance, required to mitigate the operational concern.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-003-0	R 3.	Real Time Operation	Each Reliability Coordinator shall know the current status of all critical facilities whose failure, degradation or disconnection could result in an SOL or IROL violation. Reliability Coordinators shall also know the status of any facilities that may be required to assist area restoration objectives.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 1.	Operations Planning	Each Reliability Coordinator shall conduct next-day reliability analyses for its Reliability Coordinator Area to ensure that the Bulk Electric System can be operated reliably in anticipated normal and Contingency event conditions. The Reliability Coordinator shall conduct Contingency analysis studies to identify potential interface and other SOL and IROL violations, including overloaded transmission lines and transformers, voltage and stability limits, etc.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

IRO-004-0	R 2.	Operations Planning	Each Reliability Coordinator shall pay particular attention to parallel flows to ensure one Reliability Coordinator Area does not place an unacceptable or undue Burden on an adjacent Reliability Coordinator Area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 3.	Operations Planning	Each Reliability Coordinator shall, in conjunction with its Transmission Operators and Balancing Authorities, develop action plans that may be required, including reconfiguration of the transmission system, re-dispatching of generation, reduction or curtailment of Interchange Transactions, or reducing load to return transmission loading to within acceptable SOLs or IROLs.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 4.	Operations Planning	Each Transmission Operator, Balancing Authority, Transmission Owner, Generator Owner, Generator Operator, and Load-Serving Entity in the Reliability Coordinator Area shall provide information required for system studies, such as critical facility status, Load, generation, operating reserve projections, and known Interchange Transactions. This information shall be available by 1200 Central Standard Time for the Eastern Interconnection and 1200 Pacific Standard Time for the Western Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 5.	Operations Planning	Each Reliability Coordinator shall share the results of its system studies, when conditions warrant or upon request, with other Reliability Coordinators and with Transmission Operators, Balancing Authorities, and Transmission Service Providers within its Reliability Coordinator Area. The Reliability Coordinator shall make study results available no later than 1500 Central Standard Time for the Eastern Interconnection and 1500 Pacific Standard Time for the Western Interconnection, unless circumstances warrant otherwise.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 6.	Operations Planning	When conditions warrant, the Reliability Coordinator shall initiate a conference call or other appropriate communications to address the results of its reliability analyses.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 7.	Operations Planning	If the results of these studies indicate potential SOL or IROL violations, the Reliability Coordinator shall issue the appropriate alerts via the Reliability Coordinator Information System (RCIS) and direct its Transmission Operators, Balancing Authorities and Transmission Service Providers to take any necessary action the Reliability Coordinator deems appropriate to address the potential SOL or IROL violation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-004-0	R 8.	Operations Planning	Each Transmission Operator, Balancing Authority, and Transmission Service Provider shall comply with the directives of its Reliability Coordinator based on the next day assessments in the same manner in which it would comply during real time operating events.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.	Real Time Operation	Each Reliability Coordinator shall monitor its Reliability Coordinator Area parameters, including but not limited to the following:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.1.	Real Time Operation	Current status of Bulk Electric System elements (transmission or generation including critical auxiliaries such as Automatic Voltage Regulators and Special Protection Systems) and system loading.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.10.	Real Time Operation	Contingency events.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.2.	Real Time Operation	Current pre-contingency element conditions (voltage, thermal, or stability), including any applicable mitigation plans to alleviate SOL or IROL violations, including the plan's viability and scope.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.3.	Real Time Operation	Current post-contingency element conditions (voltage, thermal, or stability), including any applicable mitigation plans to alleviate SOL or IROL violations, including the plan's viability and scope.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.4.	Real Time Operation	System real and reactive reserves (actual versus required).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.5.	Real Time Operation	Capacity and energy adequacy conditions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.6.	Real Time Operation	Current ACE for all its Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

IRO-005-0	R 1.7.	Real Time Operation	Current local or Transmission Loading Relief procedures in effect.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.8.	Real Time Operation	Planned generation dispatches.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 1.9.	Real Time Operation	Planned transmission or generation outages.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 2.	Real Time Operation	Each Reliability Coordinator shall be aware of all Interchange Transactions that wheel through, source, or sink in its Reliability Coordinator Area, and make that Interchange Transaction information available to all Reliability Coordinators in the Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 3.	Real Time Operation	As portions of the transmission system approach or exceed SOLs or IROLs, the Reliability Coordinator shall work with its Transmission Operators and Balancing Authorities to evaluate and assess any additional Interchange Schedules that would violate those limits. If a potential or actual IROL violation cannot be avoided through proactive intervention, the Reliability Coordinator shall initiate control actions or emergency procedures to relieve the violation without delay, and no longer than 30 minutes. The Reliability Coordinator shall ensure all resources, including load shedding, are available to address a potential or actual IROL violation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 4.	Real Time Operation	Each Reliability Coordinator shall monitor its Balancing Authorities' parameters to ensure that the required amount of operating reserves is provided and available as required to meet the Control Performance Standard and Disturbance Control Standard requirements. If necessary, the Reliability Coordinator shall direct the Balancing Authorities in the Reliability Coordinator Area to arrange for assistance from neighboring Balancing Authorities. The Reliability Coordinator shall issue Energy Emergency Alerts as needed and at the request of its Balancing Authorities and Load-Serving Entities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 5.	Real Time Operation	Each Reliability Coordinator shall identify the cause of any potential or actual SOL or IROL violations. The Reliability Coordinator shall initiate the control action or emergency procedure to relieve the potential or actual IROL violation without delay, and no longer than 30 minutes. The Reliability Coordinator shall be able to utilize all resources, including load shedding, to address an IROL violation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 6.	Real Time Operation	Each Reliability Coordinator shall ensure its Transmission Operators and Balancing Authorities are aware of Geo-Magnetic Disturbance (GMD) forecast information and assist as needed in the development of any required response plans.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 7.	Real Time Operation	The Reliability Coordinator shall participate in NERC hotline discussions, assist in the assessment of reliability of the overall interconnected system, and coordinate actions in anticipated or actual emergency situations. The Reliability Coordinator shall disseminate such information within its Reliability Coordinator Area, as required.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 8.	Real Time Operation	Each Reliability Coordinator shall monitor system frequency and its Balancing Authorities' performance and direct any necessary rebalancing to return to CPS and DCS compliance. The Transmission Operators and Balancing Authorities shall utilize all resources, including firm load shedding, as directed by its Reliability Coordinator to relieve the emergent condition.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R 9.	Real Time Operation	The Reliability Coordinator shall coordinate with other Reliability Coordinators and Transmission Operators, Balancing Authorities, and Generator Operators as needed to develop and implement action plans to mitigate potential or actual SOL, IROL, CPS, or DCS violations. The Reliability Coordinator shall coordinate pending generation and transmission maintenance outages with other Reliability Coordinators and Transmission Operators, Balancing Authorities, and Generator Operators as needed in both the real time and next-day reliability analysis timeframes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

IRO-005-0	R10.	Real Time Operation	As necessary, the Reliability Coordinator shall assist the Balancing Authorities in its Reliability Coordinator Area in arranging for assistance from neighboring Reliability Coordinator Areas or Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R11.	Real Time Operation	The Reliability Coordinator shall identify sources of large Area Control Errors that may be contributing to Frequency Error, Time Error, or Inadvertent Interchange and shall discuss corrective actions with the appropriate Balancing Authority. If a Frequency Error, Time Error, or inadvertent problem occurs outside of the Reliability Coordinator Area, the Reliability Coordinator shall initiate a NERC hotline call to discuss the Frequency Error, Time Error, or Inadvertent Interchange with other Reliability Coordinators. The Reliability Coordinator shall direct its Balancing Authority to comply with CPS and DCS.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R12.	Real Time Operation	Whenever a Special Protection System that may have an inter-Balancing Authority, inter-Transmission Operator, or inter-Reliability Coordinator Area impact (e.g., could potentially affect transmission flows resulting in a SOL or IROL violation) is armed, the Reliability Coordinators shall be aware of the impact of the operation of that Special Protection System on inter-area flows. The Transmission Operator shall immediately inform the Reliability Coordinator of the status of the Special Protection System including any degradation or potential failure to operate as expected.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R13.	Real Time Operation	Each Reliability Coordinator shall ensure that all Transmission Operators, Balancing Authorities, Generator Operators, Transmission Service Providers, Load-Serving Entities, and Purchasing-Selling Entities operate to prevent the likelihood that a disturbance, action, or non-action in its Reliability Coordinator Area will result in a SOL or IROL violation in another area of the Interconnection. In instances where there is a difference in derived limits, the Reliability Coordinator and its Transmission Operators, Balancing Authorities, Generator Operators, Transmission Service Providers, Load-Serving Entities, and Purchasing-Selling Entities shall always operate the Bulk Electric System to the most limiting parameter.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R14.	Real Time Operation	Each Reliability Coordinator shall make known to Transmission Service Providers within its Reliability Coordinator Area, SOLs or IROLs within its wide-area view. The Transmission Service Providers shall respect these SOLs or IROLs in accordance with filed tariffs and regional Total Transfer Calculation and Available Transfer Calculation processes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R15.	Real Time Operation	Each Reliability Coordinator who foresees a transmission problem (such as an SOL or IROL violation, loss of reactive reserves, etc.) within its Reliability Coordinator Area shall issue an alert to all impacted Transmission Operators and Balancing Authorities in its Reliability Coordinator Area, and all impacted Reliability Coordinators within the Interconnection via the Reliability Coordinator Information System (RCIS) without delay. The receiving Reliability Coordinator shall disseminate this information to its impacted Transmission Operators and Balancing Authorities. The Reliability Coordinator shall notify all impacted Transmission Operators, Balancing Authorities, and Reliability Coordinators when the transmission problem has been mitigated.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-005-0	R16.	Real Time Operation	Each Reliability Coordinator shall confirm reliability assessment results and determine the effects within its own and adjacent Reliability Coordinator Areas. The Reliability Coordinator shall discuss options to mitigate potential or actual SOL or IROL violations and take actions as necessary to always act in the best interests of the Interconnection at all times.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

IRO-005-0	R17.	Real Time Operation	When an IROL or SOL is exceeded, the Reliability Coordinator shall evaluate the local and wide-area impacts, both real-time and post-contingency, and determine if the actions being taken are appropriate and sufficient to return the system to within IROL in thirty minutes. If the actions being taken are not appropriate or sufficient, the Reliability Coordinator shall direct the Transmission Operator, Balancing Authority, Generator Operator, or Load-Serving Entity to return the system to within IROL or SOL.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 1.	Real Time Operation	A Reliability Coordinator shall take appropriate actions in accordance with established policies, procedures, authority, and expectations to relieve transmission loading.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 2.	Real Time Operation	A Reliability Coordinator experiencing a potential or actual SOL or IROL violation within its Reliability Coordinator Area shall, at its discretion, select from either a "local" (Regional, Interregional, or subregional) transmission loading relief procedure or an Interconnection-wide procedure.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 2.1.	Real Time Operation	The Interconnection-wide Transmission Loading Relief (TLR) procedure for use in the Eastern Interconnection is provided in Attachment 1-IRO-006-0.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 2.2.	Real Time Operation	The equivalent Interconnection-wide transmission loading relief procedure for use in the Western Interconnection is the "WSCC Unscheduled Flow Mitigation Plan," provided at: http://www.wecc.biz/documents/publications/UFAS_mitigation_plan_rev_2001-clean_8-8-03.pdf .	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 2.3.	Real Time Operation	The Interconnection-wide transmission loading relief procedure for use in ERCOT is provided as Section 7 of the ERCOT Protocols, posted at: http://www.ercot.com/tac/retailisoadhoccommittee/protocols/keydocs/draftercotprotocols.htm .	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 3.	Real Time Operation	The Reliability Coordinator may use local transmission loading relief or congestion management procedures, provided the Transmission Operator experiencing the potential or actual SOL or IROL violation is a party to those procedures.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 4.	Real Time Operation	A Reliability Coordinator may implement a local transmission loading relief or congestion management procedure simultaneously with an Interconnection-wide procedure. However, the Reliability Coordinator shall follow the curtailments as directed by the Interconnection-wide procedure. A Reliability Coordinator desiring to use a local procedure as a substitute for curtailments as directed by the Interconnection-wide procedure shall have such use approved by the NERC Operating Committee.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 5.	Real Time Operation	When implemented, all Reliability Coordinators shall comply with the provisions of the Interconnection-wide procedure including, for example, action by Reliability Coordinators in other Interconnections to curtail an Interchange Transaction that crosses an Interconnection boundary.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
IRO-006-0	R 6.	Real Time Operation	During the implementation of relief procedures, and up to the point that emergency action is necessary, Reliability Coordinators and Balancing Authorities shall comply with interchange scheduling standards INT-001 through INT-004.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-001-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and document a Regional TTC and ATC methodology. (Certain systems that are not required to post ATC values are exempt from this standard.) The Regional Reliability Organization's TTC and ATC methodology shall include each of the following nine items, and shall explain its use in determining TTC and ATC values:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.1.	Long Term Planning	A narrative explaining how TTC and ATC values are determined.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-001-0	R 1.2.	Long Term Planning	An accounting for how the reservations and schedules for firm (non-recallable) and non-firm (recallable) transfers, both within and outside the Transmission Service Provider's system, are included.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.3.	Long Term Planning	An accounting for the ultimate points of power injection (sources) and power extraction (sinks) in TTC and ATC calculations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.4.	Long Term Planning	A description of how incomplete or so-called partial path transmission reservations are addressed. (Incomplete or partial path transmission reservations are those for which all transmission reservations necessary to complete the transmission path from ultimate source to ultimate sink are not identifiable due to differing reservation priorities, durations, or because the reservations have not all been made.)	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.5.	Long Term Planning	A requirement that TTC and ATC values shall be determined and posted as follows:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.6.	Long Term Planning	Indication of the treatment and level of customer demands, including interruptible demands.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.7.	Long Term Planning	A specification of how system conditions, limiting facilities, contingencies, transmission reservations, energy schedules, and other data needed by Transmission Service Providers for the calculation of TTC and ATC values are shared and used within the Regional Reliability Organization and with neighboring interconnected electric systems, including adjacent systems, subregions, and Regional Reliability Organizations. In addition, specify how this information is to be used to determine TTC and ATC values. If some data is not used, provide an explanation.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.8.	Long Term Planning	A description of how the assumptions for and the calculations of TTC and ATC values change over different time (such as hourly, daily, and monthly) horizons.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 1.9.	Long Term Planning	A description of the Regional Reliability Organization's practice on the netting of transmission reservations for purposes of TTC and ATC determination.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 2.	Long Term Planning	The Regional Reliability Organization shall make the most recent version of the documentation of its TTC and ATC methodology available on a web site accessible by NERC, the Regional Reliability Organizations, and transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 5.1.1.		Daily values for current week at least once per day.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 5.1.2.		Daily values for day 8 through the first month at least once per week.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-001-0	R 5.1.3.		Monthly values for months 2 through 13 at least once per month.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-002-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and implement a procedure to periodically review (at least annually) and ensure that the TTC and ATC calculations and resulting values of member Transmission Service Providers comply with the Regional TTC and ATC methodology and applicable Regional criteria.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-002-0	R 2.	Long Term Planning	Each Regional Reliability Organization shall document the results of its periodic reviews of TTC and ATC.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-002-0	R 3.	Long Term Planning	The Regional Reliability Organization shall provide the results of its most current reviews of TTC and ATC to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-003-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and document a procedure on how transmission users can input their concerns or questions regarding the TTC and ATC methodology and values of the Transmission Service Provider(s), and how these concerns or questions will be addressed. The Regional Reliability Organization's procedure shall specify the following:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-003-0	R 1.1.	Long Term Planning	The name, telephone number and email address of a contact person to whom concerns are to be addressed.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-003-0	R 1.2.	Long Term Planning	The amount of time it will take for a response.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-003-0	R 1.3.	Long Term Planning	The manner in which the response will be communicated (e.g., email, letter, telephone, etc).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-003-0	R 1.4.	Long Term Planning	What recourse a customer has if the response is deemed unsatisfactory.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-003-0	R 2.	Long Term Planning	The Regional Reliability Organization shall post on a web site that is accessible by the Regional Reliability Organizations, NERC, and transmission users, its procedure for receiving and addressing concerns about the TTC and ATC methodology and TTC and ATC values of member Transmission Service Providers.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and document a Regional CBM methodology. The Regional Reliability Organization's CBM methodology shall include each of the following ten items, and shall explain its use in determining CBM value. Other items that are Regional Reliability Organization specific or that are considered in each respective Regional Reliability Organization methodology shall also be explained along with their use in determining CBM values.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.1.	Long Term Planning	Specify that the method used by each Regional Reliability Organization member to determine its generation reliability requirements as the basis for CBM shall be consistent with its generation planning criteria.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.10.	Long Term Planning	Describe the inclusion or exclusion rationale for generation reserve sharing arrangements in the CBM values.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.2.	Long Term Planning	Specify the frequency of calculation of the generation reliability requirement and associated CBM values.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.3.	Long Term Planning	Require that generation unit outages considered in a Transmission Service Provider's CBM calculation be restricted to those units within the Transmission Service Provider's system.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.4.	Long Term Planning	Require that CBM be preserved only on the Transmission Service Provider's System where the Load-Serving Entity's Load is located (i.e., CBM is an import quantity only).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.5.	Long Term Planning	Describe the inclusion or exclusion rationale for generation resources of each Load-Serving Entity including those generation resources not directly connected to the Transmission Service Provider's system but serving Load-Serving Entity loads connected to the Transmission Service Provider's system.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.6.	Long Term Planning	Describe the inclusion or exclusion rationale for generation connected to the Transmission Service Provider's system but not obligated to serve Native/Network Load connected to the Transmission Service Provider's system.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.7.	Long Term Planning	Describe the formal process and rationale for the Regional Reliability Organization to grant any variances to individual Transmission Service Providers from the Regional Reliability Organization's CBM methodology.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.8.	Long Term Planning	Specify the relationship of CBM to the generation reliability requirement and the allocation of the CBM values to the appropriate transmission facilities. The sum of the CBM values allocated to all interfaces shall not exceed that portion of the generation reliability requirement that is to be provided by outside resources.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 1.9.	Long Term Planning	Describe the inclusion or exclusion rationale for the loads of each Load-Serving Entity, including interruptible demands and buy-through contracts (type of service contract that offers the customer the option to be interrupted or to accept a higher rate for service under certain conditions).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-004-0	R 2.	Long Term Planning	The Regional Reliability Organization shall make the most recent version of the documentation of its CBM methodology available on a website accessible by NERC, the Regional Reliability Organizations, and transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-005-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and implement a procedure to review (at least annually) the CBM calculations and the resulting values of member Transmission Service Providers to ensure that they comply with the Regional Reliability Organization's CBM methodology. The procedure shall include the following four requirements:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-005-0	R 1.1.	Long Term Planning	Indicate the frequency under which the verification review shall be implemented.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-005-0	R 1.2.	Long Term Planning	Require review of the process by which CBM values are updated, and their frequency of update, to ensure that the most current CBM values are available to transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-005-0	R 1.3.	Long Term Planning	Require review of the consistency of the Transmission Service Provider's CBM components with its published planning criteria. A CBM value is considered consistent with published planning criteria if the components that comprise CBM are addressed in the planning criteria. The methodology used to determine and apply CBM does not have to involve the same mechanics as the planning process, but the same uncertainties must be considered and any simplifying assumptions explained.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-005-0	R 1.4.	Long Term Planning	Require CBM values to be periodically updated (at least annually) and available to the Regional Reliability Organizations, NERC, and transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-005-0	R 2.	Long Term Planning	Each Regional Reliability Organization shall document its CBM procedure and shall make its CBM review procedure available to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-005-0	R 3.	Long Term Planning	The Regional Reliability Organization shall provide documentation of the results of the most current implementation of its CBM review procedure to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-006-0	R 1.	Long Term Planning	Each Transmission Service Provider shall document its procedure on the use of Capacity Benefit Margin (CBM) (scheduling of energy against a CBM preservation). The procedure shall include the following three components:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-006-0	R 1.1.	Long Term Planning	Require that CBM be used only after the following steps have been taken (as time permits): all non-firm sales have been terminated, Direct-Control Load Management has been implemented, and customer interruptible demands have been interrupted. CBM may be used to reestablish Operating Reserves.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-006-0	R 1.2.	Long Term Planning	Require that CBM shall only be used if the Load-Serving Entity calling for its use is experiencing a generation deficiency and its Transmission Service Provider is also experiencing Transmission Constraints relative to imports of energy on its transmission system.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-006-0	R 1.3.	Long Term Planning	Describe the conditions under which CBM may be available as Non-Firm Transmission Service.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-006-0	R 2.	Long Term Planning	Each Transmission Service Provider shall make its CBM use procedure available on a web site accessible by the Regional Reliability Organizations, NERC, and transmission users..	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-007-0	R 1.	Long Term Planning	Each Transmission Service Provider that uses CBM shall report (to the Regional Reliability Organization, NERC and the transmission users) the use of CBM by the Load-Serving Entities' Loads on its system, except for CBM sales as Non-Firm Transmission Service. (This use of CBM shall be consistent with the Transmission Service Provider's procedure for use of CBM.)	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-007-0	R 2.	Long Term Planning	The Transmission Service Provider shall post the following three items within 15 calendar days after the use of CBM for an Energy Emergency. This posting shall be on a web site accessible by the Regional Reliability Organizations, NERC, and transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-007-0	R 2.1.	Long Term Planning	Circumstances.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-007-0	R 2.2.	Long Term Planning	Duration.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-007-0	R 2.3.	Long Term Planning	Amount of CBM used.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-008-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and document a Regional TRM methodology. The Region's TRM methodology shall specify or describe each of the following five items, and shall explain its use, if any, in determining TRM values. Other items that are Region-specific or that are considered in each respective Regional methodology shall also be explained along with their use in determining TRM values.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.1.	Long Term Planning	Specify the update frequency of TRM calculations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.2.	Long Term Planning	Specify how TRM values are incorporated into Available Transfer Capability calculations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.	Long Term Planning	Specify the uncertainties accounted for in TRM and the methods used to determine their impacts on the TRM values. Any component of uncertainty, other than those identified in MOD-008-0_R 1.3.1 through MOD-008-0_R 1.3.7, shall benefit the interconnected transmission systems as a whole before they shall be permitted to be included in TRM calculations. The components of uncertainty identified in MOD-008-0_R 1.3.1 through MOD-008-0_R 1.3.7, if applied, shall be accounted for solely in TRM and not CBM.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.1.	Long Term Planning	Aggregate Load forecast error (not included in determining generation reliability requirements).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.2.	Long Term Planning	Load distribution error.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.3.	Long Term Planning	Variations in facility Loadings due to balancing of generation within a Balancing Authority Area.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.4.	Long Term Planning	Forecast uncertainty in transmission system topology.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.5.	Long Term Planning	Allowances for parallel path (loop flow) impacts.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.6.	Long Term Planning	Allowances for simultaneous path interactions.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.7.	Long Term Planning	Variations in generation dispatch.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.3.8.	Long Term Planning	Short-term System Operator response (Operating Reserve actions not exceeding a 59-minute window).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.4.	Long Term Planning	Describe the conditions, if any, under which TRM may be available to the market as Non-Firm Transmission Service.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 1.5.	Long Term Planning	Describe the formal process for the Regional Reliability Organization to grant any variances to individual Transmission Service Providers from the Regional TRM methodology.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-008-0	R 2.	Long Term Planning	The Regional Reliability Organization shall make its most recent version of the documentation of its TRM methodology available on a web site accessible by NERC, the Regional Reliability Organizations, and transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-009-0	R 1.	Long Term Planning	Each Regional Reliability Organization, in conjunction with its members, shall develop and implement a procedure to review Transmission Reliability Margin (TRM) calculations and resulting values of member Transmission Service Providers to ensure they comply with the Regional TRM methodology, and are periodically updated and available to transmission users. This procedure shall include the following four required elements:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-009-0	R 1.1.	Long Term Planning	Indicate the frequency under which the verification review shall be implemented.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-009-0	R 1.2.	Long Term Planning	Require review of the process by which TRM values are updated, and their frequency of update, to ensure that the most current TRM values are available to transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-009-0	R 1.3.	Long Term Planning	Require review of the consistency of the Transmission Service Provider's TRM components with its published planning criteria. A TRM value is considered consistent with published planning criteria if the same components that comprise TRM are also addressed in the planning criteria. The methodology used to determine and apply TRM does not have to involve the same mechanics as the planning process, but the same uncertainties must be considered and any simplifying assumption explained.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-009-0	R 1.4.	Long Term Planning	Require TRM values to be periodically updated (at least prior to each season — winter, spring, summer, and fall), as necessary, and made available to the Regional Reliability Organizations, NERC, and transmission users.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-009-0	R 2.	Long Term Planning	The Regional Reliability Organization shall make documentation of its Regional TRM review procedure available to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-009-0	R 3.	Long Term Planning	The Regional Reliability Organization shall make documentation of the results of the most current implementation of its TRM review procedure available to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-010-0	R 1.	Operations Planning	The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-011-0_R1) shall provide appropriate equipment characteristics, system data, and existing and future Interchange Schedules in compliance with its respective Interconnection Regional steady-state modeling and simulation data requirements and reporting procedures as defined in Reliability Standard MOD-011-0_R 1.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-010-0	R 2.	Operations Planning	The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-011-0_R1) shall provide this steady-state modeling and simulation data to the Regional Reliability Organizations, NERC, and those entities specified within Reliability Standard MOD-011-0_R 1. If no schedule exists, then these entities shall provide the data on request (30 calendar days).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.	Operations Planning	The Regional Reliability Organizations within an Interconnection, in conjunction with the Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners, shall develop comprehensive steady-state data requirements and reporting procedures needed to model and analyze the steady-state conditions for each of the NERC Interconnections: Eastern, Western, and ERCOT. Within an Interconnection, the Regional Reliability Organizations shall jointly coordinate the development of the data requirements and reporting procedures for that Interconnection. The Interconnection-wide requirements shall include the following steady-state data requirements:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.1.	Operations Planning	Bus (substation): name, nominal voltage, electrical demand supplied (consistent with the aggregated and dispersed substation demand data supplied per Reliability Standards MOD-016-0, MOD-017-0, and MOD-020-0), and location.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.2.	Operations Planning	Generating Units (including synchronous condensers, pumped storage, etc.): location, minimum and maximum Ratings (net Real and Reactive Power), regulated bus and voltage set point, and equipment status.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.3.	Operations Planning	AC Transmission Line or Circuit (overhead and underground): nominal voltage, impedance, line charging, Normal and Emergency Ratings (consistent with methodologies defined and Ratings supplied per Reliability Standard FAC-004-0 and FAC-005-0) equipment status, and metering locations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.4.	Operations Planning	DC Transmission Line (overhead and underground): line parameters, Normal and Emergency Ratings, control parameters, rectifier data, and inverter data.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

MOD-011-0	R 1.5.	Operations Planning	Transformer (voltage and phase-shifting): nominal voltages of windings, impedance, tap ratios (voltage and/or phase angle or tap step size), regulated bus and voltage set point, Normal and Emergency Ratings (consistent with methodologies defined and Ratings supplied per Reliability Standard FAC-004-0 and FAC-005-0.), and equipment status.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.6.	Operations Planning	Reactive Compensation (shunt and series capacitors and reactors): nominal Ratings, impedance, percent compensation, connection point, and controller device.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 1.7.	Operations Planning	Interchange Schedules: Existing and future Interchange Schedules and/or assumptions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-011-0	R 2.	Operations Planning	The Regional Reliability Organizations within an Interconnection shall document their Interconnection's steady-state data requirements and reporting procedures, shall review those data requirements and reporting procedures (at least every five years), and shall make the data requirements and reporting procedures available on request (within five business days) to Regional Reliability Organizations, NERC, and all users of the interconnected transmission systems.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-012-0	R 1.	Operations Planning	The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-013-0_R4) shall provide appropriate equipment characteristics and system data in compliance with the respective Interconnection-wide Regional dynamics system modeling and simulation data requirements and reporting procedures as defined in Reliability Standard MOD-013-0_R 4.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
MOD-012-0	R 2.	Operations Planning	The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-013-0_R4) shall provide dynamics system modeling and simulation data to its Regional Reliability Organization(s), NERC, and those entities specified within the applicable reporting procedures identified in Reliability Standard MOD-013-0_R 1. If no schedule exists, then these entities shall provide data on request (30 calendar days).	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
MOD-013-0	R 1.	Operations Planning	The Regional Reliability Organization, in coordination with its Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners, shall develop comprehensive dynamics data requirements and reporting procedures needed to model and analyze the dynamic behavior or response of each of the NERC Interconnections: Eastern, Western, and ERCOT. Within an Interconnection, the Regional Reliability Organizations shall jointly coordinate on the development of the data requirements and reporting procedures for that Interconnection. Each set of Interconnection-wide dynamics data requirements shall include the following dynamics data requirements::	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
MOD-013-0	R 1.1.	Operations Planning	Unit-specific dynamics data shall be reported for generators and synchronous condensers (including, as appropriate to the model, items such as inertia constant, damping coefficient, saturation parameters, and direct and quadrature axes reactances and time constants), excitation systems, voltage regulators, turbine-governor systems, power system stabilizers, and other associated generation equipment.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
MOD-013-0	R 1.1.1.	Operations Planning	Estimated or typical manufacturer's dynamics data, based on units of similar design and characteristics, may be submitted when unit-specific dynamics data cannot be obtained. In no case shall other than unit-specific data be reported for generator units installed after 1990.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-013-0	R 1.1.2.	Operations Planning	The Interconnection-wide requirements shall specify unit size thresholds for permitting: The use of non-detailed vs. detailed models; The netting of small generating units with bus load, and; The combining of multiple generating units at one plant	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-013-0	R 1.2.	Operations Planning	Device specific dynamics data shall be reported for dynamic devices, including, among others, static VAR controllers, high voltage direct current systems, flexible AC transmission systems, and static compensators.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-013-0	R 1.3.	Operations Planning	Dynamics data representing electrical demand characteristics as a function of frequency and voltage.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-013-0	R 1.4.	Operations Planning	Dynamics data shall be consistent with the reported steady-state (power flow) data supplied per Reliability Standard MOD-010-0_R 1.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-013-0	R 2.	Operations Planning	The Regional Reliability Organization shall participate in the documentation of its Interconnection's data requirements and reporting procedures and, shall participate in the review of those data requirements and reporting procedures (at least every five years), and shall provide those data requirements and reporting procedures to Regional Reliability Organizations, NERC, and all users of the Interconnected systems on request (within five business days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-014-0	R 1.	Operations Planning	The Regional Reliability Organization(s) within each Interconnection shall coordinate and jointly develop and maintain a library of solved (converged) Interconnection-specific steady-state system models. The Interconnection-specific models shall include near- and longer-term planning horizons that are representative of system conditions for projected seasonal peak, minimum, and other appropriate system demand levels.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-014-0	R 2.	Operations Planning	The Regional Reliability Organization(s) within each Interconnection shall coordinate and jointly develop steady-state system models annually for selected study years, as determined by the Regional Reliability Organizations within its Interconnection. The Regional Reliability Organization shall provide the most recent solved (converged) Interconnection-specific steady-state models to NERC in accordance with each Interconnection's schedule for submission.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-015-0	R 1.	Operations Planning	The Regional Reliability Organization(s) within each Interconnection shall coordinate and jointly develop and maintain a library of initialized (with no Faults or system Disturbances) Interconnection-specific dynamics system models linked to the steady-state system models, as appropriate, of Reliability Standard MOD-014-0_R 1.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-015-0	R 1.1.	Operations Planning	The Regional Reliability Organization(s) shall develop Interconnection-specific dynamics system models for at least two timeframes (present or near-term model and a future or longer-term model), and additional seasonal and demand level models, as necessary, to analyze the dynamic response of that Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-015-0	R 2.	Operations Planning	The Regional Reliability Organization(s) within each Interconnection shall develop Interconnection dynamics system models for their Interconnection annually for selected study years as determined by the Regional Reliability Organization(s) within each Interconnection and shall provide the most recent initialized (approximately 25 seconds, no-fault) models to NERC in accordance with each Interconnection's schedule for submission.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
MOD-016-0	R 1.	Operations Planning	The Planning Authority and Regional Reliability Organization shall have documentation identifying the scope and details of the actual and forecast (a) Demand data, (b) Net Energy for Load data, and (c) controllable DSM data to be reported for system modeling and reliability analyses.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-016-0	R 1.1.	Operations Planning	The aggregated and dispersed data submittal requirements shall ensure that consistent data is supplied for Reliability Standards TPL-005-0, TPL-006-0, MOD-010-0, MOD-011-0, MOD-012-0, MOD-013-0, MOD-014-0, MOD-015-0, MOD-016, MOD-017-0, MOD-018-0, MOD-019-0, MOD-020-0, and MOD-021-0.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-016-0	R 2.	Operations Planning	The documentation of the scope and details of the data reporting requirements shall be available on request (five business days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

MOD-017-0	R 1.	Operations Assessment	The Load-Serving Entity, Planning Authority and Resource Planner shall each provide the following information annually on an aggregated Regional, subregional, Power Pool, individual system, or Load-Serving Entity basis to NERC, the Regional Reliability Organizations, and any other entities specified by the documentation in Standard MOD-016-0_R 1.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-017-0	R 1.1.	Operations Assessment	Integrated hourly demands in megawatts (MW) for the prior year.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-017-0	R 1.2.	Operations Assessment	Monthly and annual peak hour actual demands in MW and Net Energy for Load in gigawatthours (GWh) for the prior year.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-017-0	R 1.3.	Operations Assessment	Monthly peak hour forecast demands in MW and Net Energy for Load in GWh for the next two years.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-017-0	R 1.4.	Operations Assessment	Annual Peak hour forecast demands (summer and winter) in MW and annual Net Energy for load in GWh for at least five years and up to ten years into the future, as requested.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-018-0	R 1.	Operations Assessment	The Load-Serving Entity, Planning Authority, Transmission Planner and Resource Planner's report of actual and forecast demand data (reported on either an aggregated or dispersed basis) shall:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-018-0	R 1.1.	Operations Assessment	Indicate whether the demand data of nonmember entities within an area or Regional Reliability Organization are included, and	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-018-0	R 1.2.	Operations Assessment	Address assumptions, methods, and the manner in which uncertainties are treated in the forecasts of aggregated peak demands and Net Energy for Load.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-018-0	R 1.3.	Operations Assessment	Items (MOD-018-0_R 1.1) and (MOD-018-0_R 1.2) shall be addressed as described in the reporting procedures developed for Standard MOD-016-0_R 1.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-018-0	R 2.	Operations Assessment	The Load-Serving Entity, Planning Authority, Transmission Planner and Resource Planner shall each report data associated with Reliability Standard MOD-018-0_R1 to NERC, the Regional Reliability Organization, Load-Serving Entity, Planning Authority, and Resource Planner on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-019-0	R 1.	Operations Assessment	The Load-Serving Entity, Planning Authority, Transmission Planner, and Resource Planner shall each provide annually its forecasts of interruptible demands and Direct Control Load Management (DCLM) data for at least five years and up to ten years into the future, as requested, for summer and winter peak system conditions to NERC, the Regional Reliability Organizations, and other entities (Load-Serving Entities, Planning Authorities, and Resource Planners) as specified by the documentation in Reliability Standard MOD-016-0_R 1.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-020-0	R 1.	Operations Assessment	The Load-Serving Entity, Transmission Planner, and Resource Planner shall each make known its amount of interruptible demands and Direct Control Load Management (DCLM) to Transmission Operators, Balancing Authorities, and Reliability Coordinators on request within 30 calendar days.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-021-0	R 1.	Operations Planning	The Load-Serving Entity Transmission Planner and Resource Planner's forecasts shall each clearly document how the Demand and energy effects of DSM programs (such as conservation, time-of-use rates, interruptible Demands, and Direct Control Load Management) are addressed.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-021-0	R 2.	Operations Planning	The Load-Serving Entity, Transmission Planner and Resource Planner shall each include information detailing how Demand-Side Management measures are addressed in the forecasts of its Peak Demand and annual Net Energy for Load in the data reporting procedures of Standard MOD-016-0_R 1.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
MOD-021-0	R 3.	Operations Planning	The Load-Serving Entity, Transmission Planner and Resource Planner shall each make documentation on the treatment of its DSM programs available to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

PER-001-0	R 1.	Long Term Planning	Each Transmission Operator and Balancing Authority shall provide operating personnel with the responsibility and authority to implement real-time actions to ensure the stable and reliable operation of the Bulk Electric System.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 1.	Long Term Planning	Each Transmission Operator and Balancing Authority shall be staffed with adequately trained operating personnel.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 2.	Long Term Planning	Each Transmission Operator and Balancing Authority shall have a training program for all operating personnel that are in:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 2.1.	Long Term Planning	Positions that have the primary responsibility, either directly or through communications with others, for the real-time operation of the interconnected Bulk Electric System.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 2.2.	Long Term Planning	Positions directly responsible for complying with NERC standards.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 3.	Long Term Planning	For personnel identified in Requirement R2, the Transmission Operator and Balancing Authority shall provide a training program meeting the following criteria:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 3.1.	Long Term Planning	A set of training program objectives must be defined, based on NERC and Regional Reliability Organization standards, entity operating procedures, and applicable regulatory requirements. These objectives shall reference the knowledge and competencies needed to apply those standards, procedures, and requirements to normal, emergency, and restoration conditions for the Transmission Operator and Balancing Authority operating positions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 3.2.	Long Term Planning	The training program must include a plan for the initial and continuing training of Transmission Operator and Balancing Authority operating personnel. That plan shall address knowledge and competencies required for reliable system operations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 3.3.	Long Term Planning	The training program must include training time for all Transmission Operator and Balancing Authority operating personnel to ensure their operating proficiency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 3.4.	Long Term Planning	Training staff must be identified, and the staff must be competent in both knowledge of system operations and instructional capabilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-002-0	R 4.	Long Term Planning	For personnel identified in Requirement R2, each Transmission Operator and Balancing Authority shall provide its operating personnel at least five days per year of training and drills using realistic simulations of system emergencies, in addition to other training required to maintain qualified operating personnel.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-003-0	R 1.	Long Term Planning	Each Transmission Operator, Balancing Authority, and Reliability Coordinator shall staff all operating positions that meet both of the following criteria with personnel that are NERC-certified for the applicable functions:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-003-0	R 1.1.	Long Term Planning	Positions that have the primary responsibility, either directly or through communications with others, for the real-time operation of the interconnected Bulk Electric System.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-003-0	R 1.2.	Long Term Planning	Positions directly responsible for complying with NERC standards.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-004-0	R 1.	Long Term Planning	Each Reliability Coordinator shall be staffed with adequately trained and NERC-certified Reliability Coordinator operators, 24 hours per day, seven days per week.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-004-0	R 2.	Long Term Planning	All Reliability Coordinator operating personnel shall each complete a minimum of five days per year of training and drills using realistic simulations of system emergencies, in addition to other training required to maintain qualified operating personnel.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-004-0	R 3.	Long Term Planning	Reliability Coordinator operating personnel shall have a comprehensive understanding of the Reliability Coordinator Area and interactions with neighboring Reliability Coordinator Areas.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

PER-004-0	R 4.	Long Term Planning	Reliability Coordinator operating personnel shall have an extensive understanding of the Balancing Authorities, Transmission Operators, and Generation Operators within the Reliability Coordinator Area, including the operating staff, operating practices and procedures, restoration priorities and objectives, outage plans, equipment capabilities, and operational restrictions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PER-004-0	R 5.	Long Term Planning	Reliability Coordinator operating personnel shall place particular attention on SOLs and IROLs and inter-tie facility limits. The Reliability Coordinator shall ensure protocols are in place to allow Reliability Coordinator operating personnel to have the best available information at all times.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 1.	Real Time Operation	Each Transmission Operator, Balancing Authority, and Generator Operator shall be familiar with the purpose and limitations of protection system schemes applied in its area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 2.	Real Time Operation	Each Generator Operator and Transmission Operator shall notify reliability entities of relay or equipment failures as follows:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 2.1.	Real Time Operation	If a protective relay or equipment failure reduces system reliability, the Generator Operator shall notify its Transmission Operator and Host Balancing Authority. The Generator Operator shall take corrective action as soon as possible.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 2.2.	Real Time Operation	If a protective relay or equipment failure reduces system reliability, the Transmission Operator shall notify its Reliability Coordinator and affected Transmission Operators and Balancing Authorities. The Transmission Operator shall take corrective action as soon as possible.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 3.	Real Time Operation	A Generator Operator or Transmission Operator shall coordinate new protective systems and changes as follows.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 3.1.	Real Time Operation	Each Generator Operator shall coordinate all new protective systems and all protective system changes with its Transmission Operator and Host Balancing Authority.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 3.2.	Real Time Operation	Each Transmission Operator shall coordinate all new protective systems and all protective system changes with neighboring Transmission Operators and Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 4.	Real Time Operation	Each Transmission Operator shall coordinate protection systems on major transmission lines and interconnections with neighboring Generator Operators, Transmission Operators, and Balancing Authorities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 5.	Real Time Operation	A Generator Operator or Transmission Operator shall coordinate changes in generation, transmission, load or operating conditions that could require changes in the protection systems of others:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 5.1.	Real Time Operation	Each Generator Operator shall notify its Transmission Operator in advance of changes in generation or operating conditions that could require changes in the Transmission Operator's protection systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 5.2.	Real Time Operation	Each Transmission Operator shall notify neighboring Transmission Operators in advance of changes in generation, transmission, load, or operating conditions that could require changes in the other Transmission Operators' protection systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-001-1	R 6.	Real Time Operation	Each Transmission Operator and Balancing Authority shall monitor the status of each Special Protection System in their area, and shall notify affected Transmission Operators and Balancing Authorities of each change in status.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.	Long Term Planning	The Regional Reliability Organization shall develop comprehensive requirements for the installation of Disturbance monitoring equipment to ensure data is available to determine system performance and the causes of System Disturbances. The comprehensive requirements shall include all of the following:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.1.	Long Term Planning	Type of data recording capability (e.g., sequence-of-event, Fault recording, dynamic Disturbance recording).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

PRC-002-0	R 1.2.	Long Term Planning	Equipment characteristics including but not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.2.1.	Long Term Planning	Recording duration requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.2.2.	Long Term Planning	Time synchronization requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.2.3.	Long Term Planning	Data format requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.2.4.	Long Term Planning	Event triggering requirements	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.3.	Long Term Planning	Monitoring, recording, and reporting capabilities of the equipment.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.3.1.	Long Term Planning	Voltage.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.3.2.	Long Term Planning	Current.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.3.3.	Long Term Planning	Frequency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.3.4.	Long Term Planning	MW and/or MVAR, as appropriate.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.4.	Long Term Planning	Data retention capabilities (e.g., length of time data is to be available for retrieval).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.5.	Long Term Planning	Regional coverage requirements (e.g., by voltage, geographic area, electric area or subarea).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.6.	Long Term Planning	Installation requirements:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.6.1.	Long Term Planning	Substations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.6.2.	Long Term Planning	Transmission lines.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.6.3.	Long Term Planning	Generators.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.7.	Long Term Planning	Responsibility for maintenance and testing.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 1.8.	Long Term Planning	Requirements for periodic (at least every five years) updating, review, and approval of the Regional requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-002-0	R 2.	Long Term Planning	The Regional Reliability Organization shall provide its requirements for the installation of Disturbance monitoring equipment to other Regional Reliability Organizations and NERC on request (30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 1.	Long Term Planning	Each Regional Reliability Organization shall have a procedure for the monitoring, review, analysis, and correction of all transmission protection system misoperations. Each Regional Reliability Organization's procedure shall include the following elements:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 1.1.	Long Term Planning	Requirements for monitoring and analysis of all transmission protective device misoperations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 1.2.	Long Term Planning	Description of the data reporting requirements (periodicity and format) for those misoperations that adversely affects the reliability of the Bulk Electric Systems as specified by the Regional Reliability Organization.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 1.3.	Long Term Planning	Process for review, follow up, and documentation of corrective action plans for misoperations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 1.4.	Long Term Planning	Identification of the Regional Reliability Organization group responsible for the procedure and the process for Regional Reliability Organization approval of the procedure.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 1.5.	Long Term Planning	Regional Reliability Organization definition of misoperations.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-003-0	R 2.	Long Term Planning	Each Regional Reliability Organization shall maintain documentation of its procedure and provide it to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-004-0	R 1.	Operations Assessment	The Transmission Owner, Generator Owner, and Distribution Provider that owns a transmission protection system shall analyze all protection system misoperations and shall take corrective actions to avoid future misoperations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

PRC-004-0	R 2.	Operations Assessment	The Transmission Owner, Generator Owner, and Distribution Provider that owns a transmission protection system shall provide to its affected Regional Reliability Organization and NERC on request (within 30 calendar days) documentation of the misoperations analyses and corrective actions according to the Regional Reliability Organization's procedures of Reliability Standard PRC-003-0_R 1.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-005-0	R 1.	Long Term Planning	The Transmission Owner, Generator Owner and Distribution Provider that owns a transmission protection system shall have a transmission protection system maintenance and testing program in place. The program(s) shall include:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.1.	Long Term Planning	Transmission protection system identification shall include but are not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.1.1.	Long Term Planning	Relays.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.1.2.	Long Term Planning	Instrument transformers.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.1.3.	Long Term Planning	Communications systems, where appropriate.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.1.4.	Long Term Planning	Batteries.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.2.	Long Term Planning	Documentation of maintenance and testing intervals and their basis.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.3.	Long Term Planning	Summary of testing procedure.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.4.	Long Term Planning	Schedule for system testing.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.5.	Long Term Planning	Schedule for system maintenance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 1.6.	Long Term Planning	Date last tested/maintained.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-005-0	R 2.	Long Term Planning	The Transmission Owner, Generator Owner, and Distribution Provider that owns a transmission protection system shall provide documentation of its transmission protection system program and its implementation to the appropriate Regional Reliability Organization and NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-006-0	R 1.	Long Term Planning	Each Regional Reliability Organization shall develop, coordinate, and document an UFLS program, which shall include the following:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.1.	Long Term Planning	Requirements for coordination of UFLS programs within the subregions, Regional Reliability Organization and, where appropriate, among Regional Reliability Organizations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.	Long Term Planning	Design details shall include, but are not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.1.	Long Term Planning	Frequency set points.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.2.	Long Term Planning	Size of corresponding load shedding blocks (% of connected loads.)	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.3.	Long Term Planning	Intentional and total tripping time delays.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.4.	Long Term Planning	Generation protection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.5.	Long Term Planning	Tie tripping schemes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.6.	Long Term Planning	Islanding schemes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.7.	Long Term Planning	Automatic load restoration schemes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.2.8.	Long Term Planning	Any other schemes that are part of or impact the UFLS programs.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.3.	Long Term Planning	A Regional Reliability Organization UFLS program database. This database shall be updated as specified in the Regional Reliability Organization program (but at least every five years) and shall include sufficient information to model the UFLS program in dynamic simulations of the interconnected transmission systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

PRC-006-0	R 1.4.	Long Term Planning	Assessment and documentation of the effectiveness of the design and implementation of the Regional UFLS program. This assessment shall be conducted periodically and shall (at least every five years or as required by changes in system conditions) include, but not be limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.4.1.	Long Term Planning	A review of the frequency set points and timing, and	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 1.4.2.	Long Term Planning	Dynamic simulation of possible Disturbance that cause the Region or portions of the Region to experience the largest imbalance between Demand (Load) and generation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-006-0	R 2.	Long Term Planning	The Regional Reliability Organization shall provide documentation of its UFLS program and its database information to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-006-0	R 3.	Long Term Planning	The Regional Reliability Organization shall provide documentation of the assessment of its UFLS program to NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-007-0	R 1.	Long Term Planning	The Transmission Owner and Distribution Provider, with a UFLS program (as required by its Regional Reliability Organization) shall ensure that its UFLS program is consistent with its Regional Reliability Organization's UFLS program requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-007-0	R 2.	Long Term Planning	The Transmission Owner, Transmission Operator, Distribution Provider, and Load-Serving Entity that owns or operates a UFLS program (as required by its Regional Reliability Organization) shall provide, and annually update, its underfrequency data as necessary for its Regional Reliability Organization to maintain and update a UFLS program database.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-007-0	R 3.	Long Term Planning	The Transmission Owner and Distribution Provider that owns a UFLS program (as required by its Regional Reliability Organization) shall provide its documentation of that UFLS program to its Regional Reliability Organization on request (30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-008-0	R 1.	Long Term Planning	The Transmission Owner and Distribution Provider with a UFLS program (as required by its Regional Reliability Organization) shall have a UFLS equipment maintenance and testing program in place. This UFLS equipment maintenance and testing program shall include UFLS equipment identification, the schedule for UFLS equipment testing, and the schedule for UFLS equipment maintenance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-008-0	R 2.	Long Term Planning	The Transmission Owner and Distribution Provider with a UFLS program (as required by its Regional Reliability Organization) shall implement its UFLS equipment maintenance and testing program and shall provide UFLS maintenance and testing program results to its Regional Reliability Organization and NERC on request (within 30 calendar days).	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-009-0	R 1.	Operations Assessment	The Transmission Owner, Transmission Operator, Load-Serving Entity and Distribution Provider that owns or operates a UFLS program (as required by its Regional Reliability Organization) shall analyze and document its UFLS program performance in accordance with its Regional Reliability Organization's UFLS program. The analysis shall address the performance of UFLS equipment and program effectiveness following system events resulting in system frequency excursions below the initializing set points of the UFLS program. The analysis shall include, but not be limited to:	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-009-0	R 1.1.	Operations Assessment	A description of the event including initiating conditions.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-009-0	R 1.2.	Operations Assessment	A review of the UFLS set points and tripping times.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-009-0	R 1.3.	Operations Assessment	A simulation of the event.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-009-0	R 1.4.	Operations Assessment	A summary of the findings.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

PRC-009-0	R 2.	Operations Assessment	The Transmission Owner, Transmission Operator, Load-Serving Entity, and Distribution Provider that owns or operates a UFLS program (as required by its Regional Reliability Organization) shall provide documentation of the analysis of the UFLS program to its Regional Reliability Organization and NERC on request 90 calendar days after the system event.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-010-0	R 1.	Operations Assessment	The Load-Serving Entity, Transmission Owner, Transmission Operator, and Distribution Provider that owns or operates a UVLS program shall periodically (at least every five years or as required by changes in system conditions) conduct and document an assessment of the effectiveness of the UVLS program. This assessment shall be conducted with the associated Transmission Planner(s) and Planning Authority(ies).	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-010-0	R 1.1.	Operations Assessment	This assessment shall include, but is not limited to:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-010-0	R 1.1.1.	Operations Assessment	Coordination of the UVLS programs with other protection and control systems in the Region and with other Regional Reliability Organizations, as appropriate.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-010-0	R 1.1.2.	Operations Assessment	Simulations that demonstrate that the UVLS programs performance is consistent with Reliability Standards TPL-001-0, TPL-002-0, TPL-003-0 and TPL-004-0.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-010-0	R 1.1.3.	Operations Assessment	A review of the voltage set points and timing.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-010-0	R 2.	Operations Assessment	The Load-Serving Entity, Transmission Owner, Transmission Operator, and Distribution Provider that owns or operates a UVLS program shall provide documentation of its current UVLS program assessment to its Regional Reliability Organization and NERC on request (30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-011-0	R 1.	Long Term Planning	The Transmission Owner and Distribution Provider that owns a UVLS system shall have a UVLS equipment maintenance and testing program in place. This program shall include:	High	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-011-0	R 1.1.	Long Term Planning	The UVLS system identification which shall include but is not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.1.1.	Long Term Planning	Relays.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.1.2.	Long Term Planning	Instrument transformers.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.1.3.	Long Term Planning	Communications systems, where appropriate.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.1.4.	Long Term Planning	Batteries.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.2.	Long Term Planning	Documentation of maintenance and testing intervals and their basis.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.3.	Long Term Planning	Summary of testing procedure.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.4.	Long Term Planning	Schedule for system testing.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.5.	Long Term Planning	Schedule for system maintenance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 1.6.	Long Term Planning	Date last tested/maintained.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-011-0	R 2.	Long Term Planning	The Transmission Owner and Distribution Provider that owns a UVLS system shall provide documentation of its UVLS equipment maintenance and testing program and the implementation of that UVLS equipment maintenance and testing program to its Regional Reliability Organization and NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-012-0	R 1.	Long Term Planning	Each Regional Reliability Organization with a Transmission Owner, Generator Owner, or Distribution Providers that uses or is planning to use an SPS shall have a documented Regional Reliability Organization SPS review procedure to ensure that SPSs comply with Regional criteria and NERC Reliability Standards. The Regional SPS review procedure shall include:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.1.	Long Term Planning	Description of the process for submitting a proposed SPS for Regional Reliability Organization review.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

PRC-012-0	R 1.2.	Long Term Planning	Requirements to provide data that describes design, operation, and modeling of an SPS.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.3.	Long Term Planning	Requirements to demonstrate that the SPS shall be designed so that a single SPS component failure, when the SPS was intended to operate, does not prevent the interconnected transmission system from meeting the performance requirements defined in Reliability Standards TPL-001-0, TPL-002-0, and TPL-003-0.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.4.	Long Term Planning	Requirements to demonstrate that the inadvertent operation of an SPS shall meet the same performance requirement (TPL-001-0, TPL-002-0, and TPL-003-0) as that required of the contingency for which it was designed, and not exceed TPL-003-0.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.5.	Long Term Planning	Requirements to demonstrate the proposed SPS will coordinate with other protection and control systems and applicable Regional Reliability Organization Emergency procedures.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.6.	Long Term Planning	Regional Reliability Organization definition of misoperation.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.7.	Long Term Planning	Requirements for analysis and documentation of corrective action plans for all SPS misoperations.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.8.	Long Term Planning	Identification of the Regional Reliability Organization group responsible for the Regional Reliability Organization's review procedure and the process for Regional Reliability Organization approval of the procedure.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 1.9.	Long Term Planning	Determination, as appropriate, of maintenance and testing requirements.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-012-0	R 2.	Long Term Planning	The Regional Reliability Organization shall provide affected Regional Reliability Organizations and NERC with documentation of its SPS review procedure on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-013-0	R 1.	Long Term Planning	The Regional Reliability Organization that has a Transmission Owner, Generator Owner, or Distribution Provider with an SPS installed shall maintain an SPS database. The database shall include the following types of information:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-013-0	R 1.1.	Long Term Planning	Design Objectives — Contingencies and system conditions for which the SPS was designed,	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-013-0	R 1.2.	Long Term Planning	Operation — The actions taken by the SPS in response to Disturbance conditions, and	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-013-0	R 1.3.	Long Term Planning	Modeling — Information on detection logic or relay settings that control operation of the SPS.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-013-0	R 2.	Long Term Planning	The Regional Reliability Organization shall provide to affected Regional Reliability Organization(s) and NERC documentation of its database or the information therein on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-014-0	R 1.	Operations Assessment	The Regional Reliability Organization shall assess the operation, coordination, and effectiveness of all SPSs installed in its Region at least once every five years for compliance with NERC Reliability Standards and Regional criteria.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-014-0	R 2.	Operations Assessment	The Regional Reliability Organization shall provide either a summary report or a detailed report of its assessment of the operation, coordination, and effectiveness of all SPSs installed in its Region to affected Regional Reliability Organizations or NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-014-0	R 3.	Operations Assessment	The documentation of the Regional Reliability Organization's SPS assessment shall include the following elements:	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-014-0	R 3.1.	Operations Assessment	Identification of group conducting the assessment and the date the assessment was performed.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-014-0	R 3.2.	Operations Assessment	Study years, system conditions, and contingencies analyzed in the technical studies on which the assessment is based and when those technical studies were performed.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-014-0	R 3.3.	Operations Assessment	Identification of SPSs that were found not to comply with NERC standards and Regional Reliability Organization criteria.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-014-0	R 3.4.	Operations Assessment	Discussion of any coordination problems found between a SPS and other protection and control systems.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

PRC-014-0	R 3.5.	Operations Assessment	Provide corrective action plans for non-compliant SPSs.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-015-0	R 1.	Long Term Planning	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall maintain a list of and provide data for existing and proposed SPSs as specified in Reliability Standard PRC-013-0_R 1.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-015-0	R 2.	Long Term Planning	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have evidence it reviewed new or functionally modified SPSs in accordance with the Regional Reliability Organization's procedures as defined in Reliability Standard PRC-012-0_R1 prior to being placed in service.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-015-0	R 3.	Long Term Planning	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall provide documentation of SPS data and the results of Studies that show compliance of new or functionally modified SPSs with NERC Reliability Standards and Regional Reliability Organization criteria to affected Regional Reliability Organizations and NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-016-0	R 1.	Operations Assessment	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall analyze its SPS operations and maintain a record of all misoperations in accordance with the Regional SPS review procedure specified in Reliability Standard PRC-012-0_R 1.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
PRC-016-0	R 2.	Operations Assessment	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall take corrective actions to avoid future misoperations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-016-0	R 3.	Operations Assessment	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall provide documentation of the misoperation analyses and the corrective action plans to its Regional Reliability Organization and NERC on request (within 90 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
PRC-017-0	R 1.	Long Term Planning	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall have a system maintenance and testing program(s) in place. The program(s) shall include:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.1.	Long Term Planning	SPS identification shall include but is not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.1.1.	Long Term Planning	Relays.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.1.2.	Long Term Planning	Instrument transformers.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.1.3.	Long Term Planning	Communications systems, where appropriate.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.1.4.	Long Term Planning	Batteries.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.2.	Long Term Planning	Documentation of maintenance and testing intervals and their basis.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.3.	Long Term Planning	Summary of testing procedure.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.4.	Long Term Planning	Schedule for system testing.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.5.	Long Term Planning	Schedule for system maintenance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 1.6.	Long Term Planning	Date last tested/maintained.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
PRC-017-0	R 2.	Long Term Planning	The Transmission Owner, Generator Owner, and Distribution Provider that owns an SPS shall provide documentation of the program and its implementation to the appropriate Regional Reliability Organizations and NERC on request (within 30 calendar days).	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
TOP-001-0	R 1.	Long Term Planning	Each Transmission Operator shall have the responsibility and clear decision-making authority to take whatever actions are needed to ensure the reliability of its area and shall exercise specific authority to alleviate operating emergencies.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TOP-001-0	R 2.	Real Time Operation	Each Transmission Operator shall take 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.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 3.	Real Time Operation	Each Transmission Operator, Balancing Authority, and Generator Operator shall comply with reliability directives issued by the Reliability Coordinator, and each Balancing Authority and Generator Operator shall comply with reliability directives issued by the Transmission Operator, unless such actions would violate safety, equipment, regulatory or statutory requirements. Under these circumstances the Transmission Operator, Balancing Authority or Generator Operator shall immediately inform the Reliability Coordinator or Transmission Operator of the inability to perform the directive so that the Reliability Coordinator or Transmission Operator can implement alternate remedial actions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 4.	Real Time Operation	Each Distribution Provider and Load Serving Entity shall comply with all reliability directives issued by the Transmission Operator, including shedding firm load, unless such actions would violate safety, equipment, regulatory or statutory requirements. Under these circumstances, the Distribution Provider or Load Serving Entity shall immediately inform the Transmission Operator of the inability to perform the directive so that the Transmission Operator can implement alternate remedial actions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 5.	Real Time Operation	Each Transmission Operator shall inform its Reliability Coordinator and any other potentially affected Transmission Operators of real time or anticipated emergency conditions, and take actions to avoid, when possible, or mitigate the emergency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 6.	Real Time Operation	Each Transmission Operator, Balancing Authority, and Generator Operator shall render all available emergency assistance to others as requested, provided that the requesting entity has implemented its comparable emergency procedures, unless such actions would violate safety, equipment, or regulatory or statutory requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 7.	Real Time Operation	Each Transmission Operator and Generator Operator shall not remove Bulk Electric System facilities from service if removing those facilities would burden neighboring systems unless:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 7.1.	Real Time Operation	For a generator outage, the Generator Operator shall notify and coordinate with the Transmission Operator. The Transmission Operator shall notify the Reliability Coordinator and other affected Transmission Operators, and coordinate the impact of removing the Bulk Electric System facility.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 7.2.	Real Time Operation	For a transmission facility, the Transmission Operator shall notify and coordinate with its Reliability Coordinator. The Transmission Operator shall notify other affected Transmission Operators, and coordinate the impact of removing the Bulk Electric System facility.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-001-0	R 7.3.	Real Time Operation	When time does not permit such notifications and coordination, or when immediate action is required to prevent a hazard to the public, lengthy customer service interruption, or damage to facilities, the Generator Operator shall notify the Transmission Operator, and the Transmission Operator shall notify its Reliability Coordinator and adjacent Transmission Operators, at the earliest possible time.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TOP-001-0	R 8.	Real Time Operation	During a system emergency, the Balancing Authority and Transmission Operator shall immediately take action to restore the Real and Reactive Power Balance. If the Balancing Authority or Transmission Operator is unable to restore Real and Reactive Power Balance it shall request emergency assistance from the Reliability Coordinator. If corrective action or emergency assistance is not adequate to mitigate the Real and Reactive Power Balance, then the Reliability Coordinator, Balancing Authority, and Transmission Operator shall implement firm load shedding.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 1.	Operations Planning	Each Balancing Authority and Transmission Operator shall maintain a set of current plans that are designed to evaluate options and set procedures for reliable operation through a reasonable future time period. In addition, each Balancing Authority and Transmission Operator shall be responsible for using available personnel and system equipment to implement these plans to ensure that interconnected system reliability will be maintained.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 2.	Operations Planning	Each Balancing Authority and Transmission Operator shall ensure its operating personnel participate in the system planning and design study processes, so that these studies contain the operating personnel perspective and system operating personnel are aware of the planning purpose.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 3.	Operations Planning	Each Load Serving Entity and Generator Operator shall coordinate (where confidentiality agreements allow) its current-day, next-day, and seasonal operations with its Host Balancing Authority and Transmission Service Provider. Each Balancing Authority and Transmission Service Provider shall coordinate its current-day, next-day, and seasonal operations with its Transmission Operator.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 4.	Operations Planning	Each Balancing Authority and Transmission Operator shall 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, so that normal Interconnection operation will proceed in an orderly and consistent manner.	High	Group Box 3346 <input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 5.	Operations Planning	Each Balancing Authority and Transmission Operator shall plan to meet scheduled system configuration, generation dispatch, interchange scheduling and demand patterns.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 6.	Operations Planning	Each Balancing Authority and Transmission Operator shall 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.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 7.	Operations Planning	Each Balancing Authority shall plan to meet capacity and energy reserve requirements, including the deliverability/capability for any single Contingency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 8.	Operations Planning	Each Balancing Authority shall plan to meet voltage and/or reactive limits, including the deliverability/capability for any single contingency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R 9.	Operations Planning	Each Balancing Authority shall plan to meet Interchange Schedules and Ramps.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R10.	Operations Planning	Each Balancing Authority and Transmission Operator shall plan to meet all System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R11.	Operations Planning	The Transmission Operator shall perform seasonal, next-day, and current-day Bulk Electric System studies to determine SOLs. Neighboring Transmission Operators shall utilize identical SOLs for common facilities. The Transmission Operator shall update these Bulk Electric System studies as necessary to reflect current system conditions; and shall make the results of Bulk Electric System studies available to the Transmission Operators, Balancing Authorities (subject confidentiality requirements), and to its Reliability Coordinator.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TOP-002-0	R12.	Operations Planning	The Transmission Service Provider shall 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.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R13.	Operations Planning	At the request of the Balancing Authority or Transmission Operator, a Generator Operator shall perform generating real and reactive capability verification that shall include, among other variables, weather, ambient air and water conditions, and fuel quality and quantity, and provide the results to the Balancing Authority or Transmission Operator operating personnel as requested.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R14.	Operations Planning	Generator Operators shall, without any intentional time delay, notify their Balancing Authority and Transmission Operator of changes in capabilities and characteristics including but not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R14.1.	Operations Planning	Changes in real and reactive output capabilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R14.2.	Operations Planning	Automatic Voltage Regulator status and mode setting.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R15.	Operations Planning	Generation Operators shall, at the request of the Balancing Authority or Transmission Operator, provide a forecast of expected real power output to assist in operations planning (e.g., a seven-day forecast of real output).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R16.	Operations Planning	Subject to standards of conduct and confidentiality agreements, Transmission Operators shall, without any intentional time delay, notify their Reliability Coordinator and Balancing Authority of changes in capabilities and characteristics including but not limited to:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R16.1.	Operations Planning	Changes in transmission facility status.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R16.2.	Operations Planning	Changes in transmission facility rating.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R17.	Operations Planning	Balancing Authorities and Transmission Operators shall, without any intentional time delay, communicate the information described in the requirements R1 to R16 above to their Reliability Coordinator.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R18.	Operations Planning	Neighboring Balancing Authorities, Transmission Operators, Generator Operators, Transmission Service Providers and Load Serving Entities shall use uniform line identifiers when referring to transmission facilities of an interconnected network.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-002-0	R19.	Operations Planning	Each Balancing Authority and Transmission Operator shall maintain accurate computer models utilized for analyzing and planning system operations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-003-0	R 1.	Operations Planning	Generator Operators and Transmission Operators shall provide planned outage information.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-003-0	R 1.1.	Operations Planning	Each Generator Operator shall provide outage information daily to its Transmission Operator for scheduled generator outages planned for the next day (any foreseen outage of a generator greater than 50 MW). The Transmission Operator shall establish the outage reporting requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-003-0	R 1.2.	Operations Planning	Each Transmission Operator shall provide outage information daily 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. The Reliability Coordinator shall establish the outage reporting requirements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-003-0	R 1.3.	Operations Planning	Such information shall be available by 1200 Central Standard Time for the Eastern Interconnection and 1200 Pacific Standard Time for the Western Interconnection.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TOP-003-0	R 2.	Operations Planning	Each Transmission Operator, Balancing Authority, and Generator Operator shall plan and coordinate scheduled outages of system voltage regulating equipment, such as automatic voltage regulators on generators, supplementary excitation control, synchronous condensers, shunt and series capacitors, reactors, etc., among affected Balancing Authorities and Transmission Operators as required.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-003-0	R 3.	Operations Planning	Each Transmission Operator, Balancing Authority, and Generator Operator shall plan and coordinate scheduled outages of telemetering and control equipment and associated communication channels between the affected areas.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-003-0	R 4.	Operations Planning	Each Reliability Coordinator shall resolve any scheduling of potential reliability conflicts.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 1.	Real Time Operation	Each Transmission Operator shall operate within the Interconnection Reliability Operating Limits (IROLs) and System Operating Limits (SOLs).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 2.	Real Time Operation	Each Transmission Operator shall operate so that instability, uncontrolled separation, or cascading outages will not occur as a result of the most severe single contingency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 3.	Real Time Operation	Each Transmission Operator shall, when practical, operate to protect against instability, uncontrolled separation, or cascading outages resulting from multiple outages, as specified by Regional Reliability Organization policy.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 4.	Real Time Operation	If a Transmission Operator enters an unknown operating state (i.e. any state for which valid operating limits have not been determined), it will be considered to be in an emergency and shall restore operations to respect proven reliable power system limits within 30 minutes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 5.	Real Time Operation	Each Transmission Operator shall make every effort to remain connected to the Interconnection. If the Transmission Operator determines that by remaining interconnected, it is in imminent danger of violating an IROL or SOL, the Transmission Operator may take such actions, as it deems necessary, to protect its area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.	Real Time Operation	Transmission Operators, individually and jointly with other Transmission Operators, shall develop, maintain, and implement formal policies and procedures to provide for transmission reliability. These policies and procedures shall address the execution and coordination of activities that impact inter- and intra-Regional reliability, including:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.1.	Real Time Operation	Equipment ratings.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.2.	Real Time Operation	Monitoring and controlling voltage levels and real and reactive power flows.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.3.	Real Time Operation	Switching transmission elements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.4.	Real Time Operation	Planned outages of transmission elements.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.5.	Real Time Operation	Development of IROLs and SOLs.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-004-0	R 6.6.	Real Time Operation	Responding to IROL and SOL violations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-005-0	R 1.	Operations Planning	Each Transmission Operator and Balancing Authority shall provide its Reliability Coordinator with the operating data that the Reliability Coordinator requires to perform operational reliability assessments and to coordinate reliable operations within the Reliability Coordinator Area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-005-0	R 1.1.	Operations Planning	Each Reliability Coordinator shall identify the data requirements from the list in Attachment 1-TOP-005-0 "Electric System Reliability Data" and any additional operating information requirements relating to operation of the bulk power system within the Reliability Coordinator Area.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-005-0	R 2.	Operations Planning	As a condition of receiving data from the Interregional Security Network (ISN), each ISN data recipient shall sign the NERC Confidentiality Agreement for "Electric System Reliability Data."	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower

TOP-005-0	R 3.	Same Day Operations	Upon request, each Reliability Coordinator shall, via the ISN or equivalent system, exchange with other Reliability Coordinators operating data that are necessary to allow the Reliability Coordinators to perform operational reliability assessments and coordinate reliable operations. Reliability Coordinators shall share with each other the types of data listed in Attachment 1-TOP-005-0 "Electric System Reliability Data," unless otherwise agreed to.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-005-0	R 4.	Same Day Operations	Upon request, each Balancing Authority and Transmission Operator shall provide to other Balancing Authorities and Transmission Operators with immediate responsibility for operational reliability, the operating data that are necessary to allow these Balancing Authorities and Transmission Operators to perform operational reliability assessments and to coordinate reliable operations. Balancing Authorities and Transmission Operators shall provide the types of data as listed in Attachment 1-TOP-005-0 "Electric System Reliability Data," unless otherwise agreed to by the Balancing Authorities and Transmission Operators with immediate responsibility for operational reliability.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-005-0	R 5.	Same Day Operations	Each Purchasing-Selling Entity shall provide information as requested by its Host Balancing Authorities and Transmission Operators to enable them to conduct operational reliability assessments and coordinate reliable operations.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 1.	Real Time Operation	Each Transmission Operator and Balancing Authority shall know the status of all generation and transmission resources available for use.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 1.1.	Real Time Operation	Each Generator Operator shall inform its Host Balancing Authority and the Transmission Operator of all generation resources available for use.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 1.2.	Real Time Operation	Each Transmission Operator and Balancing Authority shall inform the Reliability Coordinator and other affected Balancing Authorities and Transmission Operators of all generation and transmission resources available for use.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 2.	Real Time Operation	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall monitor applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 3.	Real Time Operation	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall provide appropriate technical information concerning protective relays to their operating personnel.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 4.	Real Time Operation	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall have information, including weather forecasts and past load patterns, available to predict the system's near-term load pattern.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 5.	Real Time Operation	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall use monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions and to indicate, if appropriate, the need for corrective action.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 6.	Real Time Operation	Each Balancing Authority and Transmission Operator shall 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.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-006-0	R 7.	Real Time Operation	Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall monitor system frequency.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-007-0	R 1.	Real Time Operation	A Transmission Operator shall inform its Reliability Coordinator when an IROL or SOL has been exceeded and the actions being taken to return the system to within limits.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-007-0	R 2.	Real Time Operation	Following a Contingency or other event that results in an IROL violation, the Transmission Operator shall return its transmission system to within IROL as soon as possible, but not longer than 30 minutes.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TOP-007-0	R 3.	Real Time Operation	A Transmission Operator shall take all appropriate actions up to and including shedding firm load, or directing the shedding of firm load, in order to comply with Requirement R 2.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-007-0	R 4.	Real Time Operation	The Reliability Coordinator shall evaluate actions taken to address an IROL or SOL violation and, if the actions taken are not appropriate or sufficient, direct actions required to return the system to within limits.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-008-0	R 1.	Real Time Operation	The Transmission Operator experiencing or contributing to an IROL or SOL violation shall take immediate steps to relieve the condition, which may include shedding firm load.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-008-0	R 2.	Real Time Operation	Each Transmission Operator shall operate to prevent the likelihood that a disturbance, action, or inaction will result in an IROL or SOL violation in its area or another area of the Interconnection. In instances where there is a difference in derived operating limits, the Transmission Operator shall always operate the Bulk Electric System to the most limiting parameter.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-008-0	R 3.	Real Time Operation	The Transmission Operator shall disconnect the affected facility if the overload on a transmission facility or abnormal voltage or reactive condition persists and equipment is endangered. In doing so, the Transmission Operator shall notify its Reliability Coordinator and all neighboring Transmission Operators impacted by the disconnection prior to switching, if time permits, otherwise, immediately thereafter.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TOP-008-0	R 4.	Real Time Operation	The Transmission Operator shall have sufficient information and analysis tools to determine the cause(s) of SOL violations. This analysis shall be conducted in all operating timeframes. The Transmission Operator shall use the results of these analyses to immediately mitigate the SOL violation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.	Operations Planning	The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission system is planned such that, with all transmission facilities in service and with normal (pre-contingency) operating procedures in effect, the Network can be operated to supply projected customer demands and projected Firm (non-recallable reserved) Transmission Services at all Demand levels over the range of forecast system demands, under the conditions defined in Category A of Table I. To be considered valid, the Planning Authority and Transmission Planner assessments shall:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.1.	Operations Planning	Be made annually.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.2.	Operations Planning	Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.	Operations Planning	Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category A of Table 1 (no contingencies). The specific elements selected (from each of the following categories) shall be acceptable to the associated Regional Reliability Organization(s).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.1.	Operations Planning	Cover critical system conditions and study years as deemed appropriate by the entity performing the study.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.2.	Operations Planning	Be conducted annually unless changes to system conditions do not warrant such analyses.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.3.	Operations Planning	Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.4.	Operations Planning	Have established normal (pre-contingency) operating procedures in place.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.5.	Operations Planning	Have all projected firm transfers modeled.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.6.	Operations Planning	Be performed for selected demand levels over the range of forecast system demands.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.7.	Operations Planning	Demonstrate that system performance meets Table 1 for Category A (no contingencies).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.3.8.	Operations Planning	Include existing and planned facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TPL-001-0	R 1.3.9.	Operations Planning	Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 1.4.	Operations Planning	Address any planned upgrades needed to meet the performance requirements of Category A.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 2.	Operations Planning	When system simulations indicate an inability of the systems to respond as prescribed in Reliability Standard TPL-001-0_R1, the Planning Authority and Transmission Planner shall each:	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 2.1.	Operations Planning	Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 2.1.1.	Operations Planning	Including a schedule for implementation.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 2.1.2.	Operations Planning	Including a discussion of expected required in-service dates of facilities.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 2.1.3.	Operations Planning	Consider lead times necessary to implement plans.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-001-0	R 2.2.	Operations Planning	Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
TPL-001-0	R 3.	Operations Planning	The Planning Authority and Transmission Planner shall each document the results of these reliability assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.	Lower	<input type="radio"/> High <input type="radio"/> Medium <input checked="" type="radio"/> Lower
TPL-002-0	R 1.	Operations Planning	The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission system is planned such that the Network can be operated to supply projected customer demands and projected Firm (non-recallable reserved) Transmission Services, at all demand levels over the range of forecast system demands, under the contingency conditions as defined in Category B of Table I. To be valid, the Planning Authority and Transmission Planner assessments shall:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.1.	Operations Planning	Be made annually.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.2.	Operations Planning	Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.	Operations Planning	Be supported by a current or past study and/or system simulation testing that addresses each of the following categories., showing system performance following Category B of Table 1 (single contingencies). The specific elements selected (from each of the following categories) for inclusion in these studies and simulations shall be acceptable to the associated Regional Reliability Organization(s).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.1.	Operations Planning	Be performed and evaluated only for those Category B contingencies that would produce the more severe System results or impacts. The rationale for the contingencies selected for evaluation shall be available as supporting information. An explanation of why the remaining simulations would produce less severe system results shall be available as supporting information.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.10.	Operations Planning	Include the effects of existing and planned protection systems, including any backup or redundant systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.11.	Operations Planning	Include the effects of existing and planned control devices.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.12.	Operations Planning	Include the planned (including maintenance) outage of any bulk electric equipment (including protection systems or their components) at those demand levels for which planned (including maintenance) outages are performed.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.2.	Operations Planning	Cover critical system conditions and study years as deemed appropriate by the responsible entity.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.3.	Operations Planning	Be conducted annually unless changes to system conditions do not warrant such analyses.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TPL-002-0	R 1.3.4.	Operations Planning	Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.5.	Operations Planning	Have all projected firm transfers modeled.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.6.	Operations Planning	Be performed and evaluated for selected demand levels over the range of forecast system Demands.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.7.	Operations Planning	Demonstrate that system performance meets Category B contingencies.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.8.	Operations Planning	Include existing and planned facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.3.9.	Operations Planning	Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.4.	Operations Planning	Address any planned upgrades needed to meet the performance requirements of Category B of Table I.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 1.5.	Operations Planning	Consider all contingencies applicable to Category B.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.	Operations Planning	When System simulations indicate an inability of the systems to respond as prescribed in Reliability Standard TPL-002-0_R1, the Planning Authority and Transmission Planner shall each:	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.1.	Operations Planning	Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.1.1.	Operations Planning	Including a schedule for implementation.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.1.2.	Operations Planning	Including a discussion of expected required in-service dates of facilities.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.1.2.	Operations Planning	Including a discussion of expected required in-service dates of facilities.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.1.3.	Operations Planning	Consider lead times necessary to implement plans.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.1.3.	Operations Planning	Consider lead times necessary to implement plans.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.2.	Operations Planning	Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 2.2.	Operations Planning	Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.	High	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-002-0	R 3.	Operations Planning	The Planning Authority and Transmission Planner shall each document the results of its Reliability Assessments and corrective plans and shall annually provide the results to its respective Regional Reliability Organization(s), as required by the Regional Reliability Organization.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.	Operations Planning	The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission systems is planned such that the network can be operated to supply projected customer demands and projected Firm (non-recallable reserved) Transmission Services, at all demand Levels over the range of forecast system demands, under the contingency conditions as defined in Category C of Table I (attached). The controlled interruption of customer Demand, the planned removal of generators, or the Curtailment of firm (non-recallable reserved) power transfers may be necessary to meet this standard. To be valid, the Planning Authority and Transmission Planner assessments shall:	High	<input type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.1.	Operations Planning	Be made annually.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.2.	Operations Planning	Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower

TPL-003-0	R 1.3.	Operations Planning	Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category C of Table 1 (multiple contingencies). The specific elements selected (from each of the following categories) for inclusion in these studies and simulations shall be acceptable to the associated Regional Reliability Organization(s).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.1.	Operations Planning	Be performed and evaluated only for those Category C contingencies that would produce the more severe system results or impacts. The rationale for the contingencies selected for evaluation shall be available as supporting information. An explanation of why the remaining simulations would produce less severe system results shall be available as supporting information.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.10.	Operations Planning	Include the effects of existing and planned protection systems, including any backup or redundant systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.11.	Operations Planning	Include the effects of existing and planned control devices.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.12.	Operations Planning	Include the planned (including maintenance) outage of any bulk electric equipment (including protection systems or their components) at those Demand levels for which planned (including maintenance) outages are performed.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.2.	Operations Planning	Cover critical system conditions and study years as deemed appropriate by the responsible entity.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.3.	Operations Planning	Be conducted annually unless changes to system conditions do not warrant such analyses.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.4.	Operations Planning	Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.5.	Operations Planning	Have all projected firm transfers modeled.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.6.	Operations Planning	Be performed and evaluated for selected demand levels over the range of forecast system demands.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.7.	Operations Planning	Demonstrate that System performance meets Table 1 for Category C contingencies.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.8.	Operations Planning	Include existing and planned facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.3.9.	Operations Planning	Include Reactive Power resources to ensure that adequate reactive resources are available to meet System performance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.4.	Operations Planning	Address any planned upgrades needed to meet the performance requirements of Category C.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 1.5.	Operations Planning	Consider all contingencies applicable to Category C.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 2.	Operations Planning	When system simulations indicate an inability of the systems to respond as prescribed in Reliability Standard TPL-003-0_R1, the Planning Authority and Transmission Planner shall each:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 2.1.	Operations Planning	Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 2.1.1.	Operations Planning	Including a schedule for implementation.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 2.1.2.	Operations Planning	Including a discussion of expected required in-service dates of facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 2.1.3.	Operations Planning	Consider lead times necessary to implement plans.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 2.2.	Operations Planning	Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-003-0	R 3.	Operations Planning	The Planning Authority and Transmission Planner shall each document the results of these Reliability Assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

TPL-004-0	R 1.	Operations Planning	The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission system is evaluated for the risks and consequences of a number of each of the extreme contingencies that are listed under Category D of Table I. To be valid, the Planning Authority's and Transmission Planner's assessment shall:	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.1.	Operations Planning	Be made annually.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.2.	Operations Planning	Be conducted for near-term (years one through five).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.	Operations Planning	Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category D contingencies of Table I. The specific elements selected (from within each of the following categories) for inclusion in these studies and simulations shall be acceptable to the associated Regional Reliability Organization(s).	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.1.	Operations Planning	Be performed and evaluated only for those Category D contingencies that would produce the more severe system results or impacts. The rationale for the contingencies selected for evaluation shall be available as supporting information. An explanation of why the remaining simulations would produce less severe system results shall be available as supporting information.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.2.	Operations Planning	Cover critical system conditions and study years as deemed appropriate by the responsible entity.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.3.	Operations Planning	Be conducted annually unless changes to system conditions do not warrant such analyses.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.4.	Operations Planning	Have all projected firm transfers modeled.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.5.	Operations Planning	Include existing and planned facilities.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.6.	Operations Planning	Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.7.	Operations Planning	Include the effects of existing and planned protection systems, including any backup or redundant systems.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.8.	Operations Planning	Include the effects of existing and planned control devices.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.3.9.	Operations Planning	Include the planned (including maintenance) outage of any bulk electric equipment (including protection systems or their components) at those demand levels for which planned (including maintenance) outages are performed.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 1.4.	Operations Planning	Consider all contingencies applicable to Category D.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
TPL-004-0	R 2.	Operations Planning	The Planning Authority and Transmission Planner shall each document the results of its reliability assessments and shall annually provide the results to its entities' respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.	Operations Planning	Each Regional Reliability Organization shall annually conduct reliability assessments of its respective existing and planned Regional Bulk Electric System (generation and transmission facilities) for:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.1.	Operations Planning	Current year:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.1.1.	Operations Planning	Winter.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.1.2.	Operations Planning	Summer.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.1.3.	Operations Planning	Other system conditions as deemed appropriate by the Regional Reliability Organization.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.2.	Operations Planning	Near-term planning horizons (years one through five). Detailed assessments shall be conducted.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 1.3.	Operations Planning	Longer-term planning horizons (years six through ten). Assessment shall focus on the analysis of trends in resources and transmission Adequacy, other industry trends and developments, and reliability concerns.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

TPL-005-0	R 1.4.	Operations Planning	Inter-Regional reliability assessments to demonstrate that the performance of these systems is in compliance with NERC Reliability Standards TPL-001-0, TPL-002-0, TPL-003-0, TPL-004-0 and respective Regional transmission and generation criteria. These assessments shall also identify key reliability issues and the risks and uncertainties affecting Adequacy and Security.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 2.	Operations Planning	The Regional Reliability Organization shall provide its Regional and Inter-Regional seasonal, near-term, and longer-term reliability assessments to NERC on an annual basis.	Lower	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.	Operations Planning	The Regional Reliability Organization shall perform special reliability assessments as requested by NERC or the NERC Board of Trustees under their specific directions and criteria. Such assessments may include, but are not limited to:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.1.	Operations Planning	Security assessments.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.2.	Operations Planning	Operational assessments.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.3.	Operations Planning	Evaluations of emergency response preparedness.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.4.	Operations Planning	Adequacy of fuel supply and hydro conditions.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.5.	Operations Planning	Reliability impacts of new or proposed environmental rules and regulations.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-005-0	R 3.6.	Operations Planning	Reliability impacts of new or proposed legislation that affects, has affected, or has the potential to affect the Adequacy of the interconnected Bulk Electric Systems in North America.	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.	Operations Planning	Each Regional Reliability Organization shall provide, as requested (seasonally, annually, or as otherwise specified) by NERC, system data, including past, existing, and future facility and Bulk Electric System data, reports, and system performance information, necessary to assess reliability and compliance with the NERC Reliability Standards and the respective Regional planning criteria. The facility and Bulk Electric System data, reports, and system performance information shall include, but not be limited to, one or more of the following types of information as outlined below:	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.1.	Operations Planning	Electric Demand and Net Energy for Load (actual and projected demands and Net Energy for Load, forecast methodologies, forecast assumptions and uncertainties, and treatment of Demand-Side Management.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.2.	Operations Planning	Resource Adequacy and supporting information (Regional assessment reports, existing and planned resource data, resource availability and characteristics, and fuel types and requirements.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.3.	Operations Planning	Demand-Side resources and their characteristics (program ratings, effects on annual system loads and load shapes, contractual arrangements, and program durations.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.4.	Operations Planning	Supply-side resources and their characteristics (existing and planned generator units, Ratings, performance characteristics, fuel types and availability, and real and reactive capabilities.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.5.	Operations Planning	Transmission system and supporting information (thermal, voltage, and Stability Limits, contingency analyses, system restoration, system modeling and data requirements, and protection systems.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.6.	Operations Planning	System operations and supporting information (extreme weather impacts, Interchange Transactions, and Congestion impacts on the reliability of the interconnected Bulk Electric Systems.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower
TPL-006-0	R 1.7.	Operations Planning	Environmental and regulatory issues and impacts (air and water quality issues, and impacts of existing, new, and proposed regulations and legislation.)	Medium	<input type="radio"/> High <input checked="" type="radio"/> Medium <input type="radio"/> Lower

VAR-001-0	R 1.	Operations Planning	Each Transmission Operator, individually and jointly with other Transmission Operators, shall ensure that formal policies and procedures are developed, maintained, and implemented for monitoring and controlling voltage levels and MVAR flows within their individual areas and with the areas of neighboring Transmission Operators.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 2.	Operations Planning	Each Transmission Operator shall acquire sufficient reactive resources within its area to protect the voltage levels under normal and Contingency conditions. This includes the Transmission Operator's share of the reactive requirements of interconnecting transmission circuits.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 3.	Operations Planning	Each Purchasing-Selling Entity shall arrange for (self-provide or purchase) reactive resources to satisfy its reactive requirements identified by its Transmission Service Provider.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 4.	Operations Planning	The Transmission Operator shall know the status of all transmission reactive power resources, including the status of voltage regulators and power system stabilizers.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 5.	Operations Planning	The Transmission Operator shall be able to operate or direct the operation of devices necessary to regulate transmission voltage and reactive flow.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 6.	Real Time Operation	Each Transmission Operator shall operate or direct the operation of capacitive and inductive reactive resources within its area – including reactive generation scheduling; transmission line and reactive resource switching; and, if necessary, load shedding – to maintain system and Interconnection voltages within established limits.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 7.	Real Time Operation	Each Transmission Operator shall maintain reactive resources to support its voltage under first Contingency conditions.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 7.1.	Real Time Operation	Each Transmission Operator shall disperse and locate the reactive resources so that the resources can be applied effectively and quickly when Contingencies occur.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 8.	Real Time Operation	Each Transmission Operator shall correct IROL or SOL violations resulting from reactive resource deficiencies (IROL violations must be corrected within 30 minutes) and complete the required IROL or SOL violation reporting.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 9.	Real Time Operation	Each Generator Operator shall provide information to its Transmission Operator on the status of all generation reactive power resources, including the status of voltage regulators and power system stabilizers.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R 9.1.	Real Time Operation	When a generator's voltage regulator is out of service, the Generator Operator shall maintain the generator field excitation at a level to maintain Interconnection and generator stability.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower
VAR-001-0	R10.	Real Time Operation	The Transmission Operator shall direct corrective action, including load reduction, necessary to prevent voltage collapse when reactive resources are insufficient.	High	<input checked="" type="radio"/> High <input type="radio"/> Medium <input type="radio"/> Lower