



Registration Standards Applicability List for Joint Registration Organization (JRO) JRO00047

(Will be called Coordinated Functional Registration (CFR) when the proposed revision to the rules of procedure are passed.)

Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Member Entities	JRO Effective Registration Date
NCR01278 - Municipal Electric Authority of Georgia	11/10/2009
NCR01320 - Southern Company Services, Inc. - Trans	11/10/2009



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-002-0

Requirements:

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- R2. 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).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-010-1

Requirements:

R1. The Planning Authority shall have a documented SOL Methodology for use in developing SOLs within its Planning Authority Area. This SOL Methodology shall:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be applicable for developing SOLs used in the planning horizon.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. State that SOLs shall not exceed associated Facility Ratings.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. Include a description of how to identify the subset of SOLs that qualify as IROLs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. The Planning Authority's SOL Methodology shall include a requirement that SOLs provide BES performance consistent with the following:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. In the pre-contingency state and with all Facilities in service, the BES shall demonstrate transient, dynamic and voltage stability; all Facilities shall be within their Facility Ratings and within their thermal, voltage and stability limits. In the determination of SOLs, the BES condition used shall reflect expected system conditions and shall reflect changes to system topology such as Facility outages.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Following the single Contingencies (see footnote in standard) identified in Requirement 2.2.1 through Requirement 2.2.3, the system shall demonstrate transient, dynamic and voltage stability; all Facilities shall be operating within their Facility Ratings and within their thermal, voltage and stability limits; and Cascading Outages or uncontrolled separation shall not occur.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2.1. Single line to ground or three-phase Fault (whichever is more severe), with Normal Clearing, on any Faulted generator, line, transformer, or shunt device.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-010-1

Requirements:

R2.2.2. Loss of any generator, line, transformer, or shunt device without a Fault.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2.3. Single pole block, with Normal Clearing, in a monopolar or bipolar high voltage direct current system.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.3. Starting with all Facilities in service, the system's response to a single Contingency, may include any of the following:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.3.1. Planned or controlled interruption of electric supply to radial customers or some local network customers connected to or supplied by the Faulted Facility or by the affected area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.3.2. System reconfiguration through manual or automatic control or protection actions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.3.3. To prepare for the next Contingency, system adjustments may be made, including changes to generation, uses of the transmission system, and the transmission system topology.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.4. Starting with all facilities in service and following any of the multiple Contingencies identified in Reliability Standard TPL-003 the system shall demonstrate transient, dynamic and voltage stability; all Facilities shall be operating within their Facility Ratings and within their thermal, voltage and stability limits; and Cascading Outages or uncontrolled separation shall not occur.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.5. In determining the system's response to any of the multiple Contingencies, identified in Reliability Standard TPL-003, in addition to the actions identified in R2.3.1 and R2.3.2, the following shall be acceptable:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-010-1

Requirements:

R2.5.1. Planned or controlled interruption of electric supply to customers (load shedding), the planned removal from service of certain generators, and/or the curtailment of contracted Firm (non-recallable reserved) electric power Transfers.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority's methodology for determining SOLs, shall include, as a minimum, a description of the following, along with any reliability margins applied for each:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.1. Study model (must include at least the entire Planning Authority Area as well as the critical modeling details from other Planning Authority Areas that would impact the Facility or Facilities under study).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.2. Selection of applicable Contingencies.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.3. Level of detail of system models used to determine SOLs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.4. Allowed uses of Special Protection Systems or Remedial Action Plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.5. Anticipated transmission system configuration, generation dispatch and Load level.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.6. Criteria for determining when violating a SOL qualifies as an Interconnection Reliability Operating Limit (IROL) and criteria for developing any associated IROL Tv.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4. The Planning Authority shall issue its SOL Methodology, and any change to that methodology, to all of the following prior to the effectiveness of the change:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-010-1

Requirements:

R4.1. Each adjacent Planning Authority and each Planning Authority that indicated it has a reliability-related need for the methodology.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.2. Each Reliability Coordinator and Transmission Operator that operates any portion of the Planning Authority's Planning Authority Area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.3. Each Transmission Planner that works in the Planning Authority's Planning Authority Area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R5. If a recipient of the SOL Methodology provides documented technical comments on the methodology, the Planning Authority shall provide a documented response to that recipient within 45 calendar days of receipt of those comments. The response shall indicate whether a change will be made to the SOL Methodology and, if no change will be made to that SOL Methodology, the reason why.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-012-1

Requirements:

R1. The Reliability Coordinator and Planning Authority shall each document its current methodology used for developing its inter-regional and intra-regional Transfer Capabilities (Transfer Capability Methodology). The Transfer Capability Methodology shall include all of the following:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. A statement that Transfer Capabilities shall respect all applicable System Operating Limits (SOLs).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. A definition stating whether the methodology is applicable to the planning horizon or the operating horizon.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. A description of how each of the following is addressed, including any reliability margins applied to reflect uncertainty with projected BES conditions:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. Transmission system topology

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. System demand

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Generation dispatch

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Current and projected transmission uses

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority shall issue its Transfer Capability Methodology, and any changes to that methodology, prior to the effectiveness of such changes, to all of the following:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-012-1

Requirements:

R3.1. Each Transmission Planner that works in the Planning Authority's Planning Authority Area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.2. Each Adjacent Planning Authority and each Planning Authority that indicated a reliability-related need for the methodology.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3.3. Each Reliability Coordinator and Transmission Operator that operates any portion of the Planning Authority's Planning Authority Area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4. If a recipient of the Transfer Capability Methodology provides documented technical comments on the methodology, the Reliability Coordinator or Planning Authority shall provide a documented response to that recipient within 45 calendar days of receipt of those comments. The response shall indicate whether a change will be made to the Transfer Capability Methodology and, if no change will be made to that Transfer Capability Methodology, the reason why.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-013-1

Requirements:

- R1. The Reliability Coordinator and Planning Authority shall each establish a set of inter-regional and intra-regional Transfer Capabilities that is consistent with its current Transfer Capability Methodology.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R2. The Reliability Coordinator and Planning Authority shall each provide its inter-regional and intra-regional Transfer Capabilities to those entities that have a reliability-related need for such Transfer Capabilities and make a written request that includes a schedule for delivery of such Transfer Capabilities as follows:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R2.2. The Planning Authority shall provide its Transfer Capabilities to its associated Reliability Coordinator(s) and Regional Reliability Organization(s), and to the Transmission Planners and Transmission Service Provider(s) that work in its Planning Authority Area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: FAC-014-1

Requirements:

R3. The Planning Authority shall establish SOLs, including IROLs, for its Planning Authority Area that are consistent with its SOL Methodology.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R5. The Reliability Coordinator, Planning Authority and Transmission Planner shall each provide its SOLs and IROLs to those entities that have a reliability-related need for those limits and provide a written request that includes a schedule for delivery of those limits as follows:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R5.3. The Planning Authority shall provide its SOLs (including the subset of SOLs that are IROLs) to adjacent Planning Authorities, and to Transmission Planners, Transmission Service Providers, Transmission Operators and Reliability Coordinators that work within its Planning Authority Area.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R6. The Planning Authority shall identify the subset of multiple contingencies (if any), from Reliability Standard TPL-003 which result in stability limits.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R6.1. The Planning Authority shall provide this list of multiple contingencies and the associated stability limits to the Reliability Coordinators that monitor the facilities associated with these contingencies and limits.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R6.2. If the Planning Authority does not identify any stability-related multiple contingencies, the Planning Authority shall so notify the Reliability Coordinator.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: MOD-016-1.1

Requirements:

R1. 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.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.1. The aggregated and dispersed data submittal requirements shall ensure that consistent data is supplied for Reliability Standards TPL-005, TPL-006, MOD-010, MOD-011, MOD-012, MOD-013, MOD-014, MOD-015, MOD-016, MOD-017, MOD-018, MOD-019, MOD-020, and MOD-021. The data submittal requirements shall stipulate that each Load-Serving Entity count its customer Demand once and only once, on an aggregated and dispersed basis, in developing its actual and forecast customer Demand values.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R3. The Planning Authority shall distribute its documentation required in R1 for reporting customer data and any changes to that documentation, to its Transmission Planners and Load-Serving Entities that work within its Planning Authority Area.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R3.1. The Planning Authority shall make this distribution within 30 calendar days of approval.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: MOD-017-0.1

Requirements:

R1. 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-016-1_R1.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.1. Integrated hourly demands in megawatts (MW) for the prior year.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.2. Monthly and annual peak hour actual demands in MW and Net Energy for Load in gigawatthours (GWh) for the prior year.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.3. Monthly peak hour forecast demands in MW and Net Energy for Load in GWh for the next two years.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.4. 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.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: MOD-018-0

Requirements:

R1. 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:

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.1. Indicate whether the demand data of nonmember entities within an area or Regional Reliability Organization are included, and

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.2. Address assumptions, methods, and the manner in which uncertainties are treated in the forecasts of aggregated peak demands and Net Energy for Load.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.3. 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-016-1_R 1.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R2. 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).

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: MOD-019-0.1

Requirements:

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- R1. 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-016-1_R1.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: NUC-001-1

Requirements:

R2. The Nuclear Plant Generator Operator and the applicable Transmission Entities shall have in effect one or more Agreements that include mutually agreed to NPIRs and document how the Nuclear Plant Generator Operator and the applicable Transmission Entities shall address and implement these NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall incorporate the NPIRs into their planning analyses of the electric system and shall communicate the results of these analyses to the Nuclear Plant Generator Operator.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.1. Incorporate the NPIRs into their operating analyses of the electric system.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.3. Inform the Nuclear Plant Generator Operator when the ability to assess the operation of the electric system affecting NPIRs is lost.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R6. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities and the Nuclear Plant Generator Operator shall coordinate outages and maintenance activities which affect the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R8. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall inform the Nuclear Plant Generator Operator of actual or proposed changes to electric system design, configuration, operations, limits, protection systems, or capabilities that may impact the ability of the electric system to meet the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9. The Nuclear Plant Generator Operator and the applicable Transmission Entities shall include, as a minimum, the following elements within the agreement(s) identified in R2:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: NUC-001-1

Requirements:

R9.1. Administrative elements:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.1. Definitions of key terms used in the agreement.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.2. Names of the responsible entities, organizational relationships, and responsibilities related to the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.3. A requirement to review the agreement(s) at least every three years.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.4. A dispute resolution mechanism.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2. Technical requirements and analysis:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2.1. Identification of parameters, limits, configurations, and operating scenarios included in the NPIRs and, as applicable, procedures for providing any specific data not provided within the agreement.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2.2. Identification of facilities, components, and configuration restrictions that are essential for meeting the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2.3. Types of planning and operational analyses performed specifically to support the NPIRs, including the frequency of studies and types of Contingencies and scenarios required.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: NUC-001-1

Requirements:

R9.3. Operations and maintenance coordination:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.1. Designation of ownership of electrical facilities at the interface between the electric system and the nuclear plant and responsibilities for operational control coordination and maintenance of these facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.2. Identification of any maintenance requirements for equipment not owned or controlled by the Nuclear Plant Generator Operator that are necessary to meet the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.3. Coordination of testing, calibration and maintenance of on-site and off-site power supply systems and related components.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.4. Provisions to address mitigating actions needed to avoid violating NPIRs and to address periods when responsible Transmission Entity loses the ability to assess the capability of the electric system to meet the NPIRs. These provisions shall include responsibility to notify the Nuclear Plant Generator Operator within a specified time frame.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.5. Provision to consider nuclear plant coping times required by the NPLRs and their relation to the coordination of grid and nuclear plant restoration following a nuclear plant loss of Off-site Power.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.6. Coordination of physical and cyber security protection of the Bulk Electric System at the nuclear plant interface to ensure each asset is covered under at least one entity's plan.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.7. Coordination of the NPIRs with transmission system Special Protection Systems and underfrequency and undervoltage load shedding programs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: NUC-001-1

Requirements:

R9.4. Communications and training:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.1. Provisions for communications between the Nuclear Plant Generator Operator and Transmission Entities, including communications protocols, notification time requirements, and definitions of terms.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.2. Provisions for coordination during an off-normal or emergency event affecting the NPIRs, including the need to provide timely information explaining the event, an estimate of when the system will be returned to a normal state, and the actual time the system is returned to normal.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.3. Provisions for coordinating investigations of causes of unplanned events affecting the NPIRs and developing solutions to minimize future risk of such events.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.4. Provisions for supplying information necessary to report to government agencies, as related to NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.5. Provisions for personnel training, as related to NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: PRC-023-1

Requirements:

- R3. The Planning Coordinator shall determine which of the facilities (transmission lines operated at 100 kV to 200 kV and transformers with low voltage terminals connected at 100 kV to 200 kV) in its Planning Coordinator Area are critical to the reliability of the Bulk Electric System to identify the facilities from 100 kV to 200 kV that must meet Requirement 1 to prevent potential cascade tripping that may occur when protective relay settings limit transmission loadability. [Time Horizon: Long Term Planning]

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R3.1. The Planning Coordinator shall have a process to determine the facilities that are critical to the reliability of the Bulk Electric System.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R3.1.1. This process shall consider input from adjoining Planning Coordinators and affected Reliability Coordinators.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R3.2. The Planning Coordinator shall maintain a current list of facilities determined according to the process described in R3.1.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R3.3. The Planning Coordinator shall provide a list of facilities to its Reliability Coordinators, Transmission Owners, Generator Owners, and Distribution Providers within 30 days of the establishment of the initial list and within 30 days of any changes to the list.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-001-0.1

Requirements:

R1. 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:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. 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).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. Cover critical system conditions and study years as deemed appropriate by the entity performing the study.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Have established normal (pre-contingency) operating procedures in place.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-001-0.1

Requirements:

R1.3.5. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Be performed for selected demand levels over the range of forecast system demands.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Demonstrate that system performance meets Table 1 for Category A (no contingencies).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.4. Address any planned upgrades needed to meet the performance requirements of Category A.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. 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:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.1. Including a schedule for implementation.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-001-0.1

Requirements:

R2.1.2. Including a discussion of expected required in-service dates of facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.3. Consider lead times necessary to implement plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority and Transmission Planner shall each document the results of these reliability assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-002-0

Requirements:

R1. 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:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. 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).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. 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.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.10. Include the effects of existing and planned protection systems, including any backup or redundant systems.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.11. Include the effects of existing and planned control devices.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-002-0

Requirements:

R1.3.12. 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.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. Cover critical system conditions and study years as deemed appropriate by the responsible entity.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.5. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Be performed and evaluated for selected demand levels over the range of forecast system Demands.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Demonstrate that system performance meets Category B contingencies.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-002-0

Requirements:

R1.4. Address any planned upgrades needed to meet the performance requirements of Category B of Table I.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.5. Consider all contingencies applicable to Category B.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. 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:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.1. Including a schedule for implementation.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.2. Including a discussion of expected required in-service dates of facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.3. Consider lead times necessary to implement plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority and Transmission Planner shall each document the results of its Reliability Assessments and corrective plans and shall annually provide the results to its respective Regional Reliability Organization(s), as required by the Regional Reliability Organization.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-003-0

Requirements:

R1. 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. 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: See standard for table.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. 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).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. 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.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.10. Include the effects of existing and planned protection systems, including any backup or redundant systems.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.11. Include the effects of existing and planned control devices.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-003-0

Requirements:

R1.3.12. 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.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. Cover critical system conditions and study years as deemed appropriate by the responsible entity.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.5. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Be performed and evaluated for selected demand levels over the range of forecast system demands.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Demonstrate that System performance meets Table 1 for Category C contingencies.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include Reactive Power resources to ensure that adequate reactive resources are available to meet System performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-003-0

Requirements:

R1.4. Address any planned upgrades needed to meet the performance requirements of Category C.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.5. Consider all contingencies applicable to Category C.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. 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:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.1. Including a schedule for implementation.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.2. Including a discussion of expected required in-service dates of facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.3. Consider lead times necessary to implement plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority and Transmission Planner shall each document the results of these Reliability Assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-004-0

Requirements:

R1. 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:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. 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).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. 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.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. Cover critical system conditions and study years as deemed appropriate by the responsible entity.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 7/26/2010

Applicable Regional Entity: SERC

Applicable Function: PA

Standard: TPL-004-0

Requirements:

R1.3.5. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Include the effects of existing and planned protection systems, including any backup or redundant systems.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include the effects of existing and planned control devices.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. 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.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.4. Consider all contingencies applicable to Category D.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. The Planning Authority and Transmission Planner shall each document the results of its reliability assessments and shall annually provide the results to its entities' respective NERC Regional Reliability Organization(s), as required by the Regional Reliability Organization.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans