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Standard Authorization Request Form

Title of Proposed Standard	Revision to IRO-004 (Reliability Coordination — Operations Planning)to require timely submission of system reliability data
Request Date	1-19-2006

SAR Requestor Information		**SAR Type** (*Check a box for each one that applies.*)	
Name	Julie Pierce	☐	New Standard
Primary Contact	Julie Pierce	☒	Revision to existing Standard
Telephone Fax	(651) 632-8445 (651) 632-8417	☐	Withdrawal of existing Standard
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Purpose (Describe the purpose of the standard — what the standard will achieve in support of reliability.))

This SAR is required to revise IRO-004-0 Requirement 4 to require the submission of system operational data by noon the day prior as soon as it is known to be in effect for the next day. The Interchange Distribution Calculator Working Group (IDCWG) and the Operating Reliability Subcommittee (ORS) reviewed Section A (System Data Exchange (SDX) — Eastern Interconnection) of the Reliability Coordinator Reference Document contained in the NERC Operating Manual, and concluded that the existing reliability standards do not adequately address the requirements placed on reporting entities within the reference document. Therefore, the IDCWG and the ORS support a revision to IRO-004-0 to require the timely submission of system operation data used by reliability coordinators, transmission operators, and balancing authorities to perform next day operational analysis. This SAR would also modify the Compliance Section of IRO-004.

Industry Need (**Provide** a detailed statement justifying the need for the proposed standard, along with any supporting documentation.)

Existing reliability standards do not adequately address the requirements for the submission of system operational data, used in Available Transfer Capability calculations, the Transmission Loading Relief application, and power system applications, from Balancing Authorities, Transmission Owners/Operators, Generation Owners/Operators, and Load Serving Entities to their Reliability Coordinator. Section A, (System Data Exchange (SDX) — Eastern Interconnection), of the Reliability Coordinator Reference Document, addresses the submission of specific system operational data, including the timing associated with the submission of the data. However, the data submission specifications outlined in the Reliability Coordinator Reference Document are not uniformly followed within the Eastern Interconnection. Therefore, the IDCWG and the ORS support a revision to IRO-004 to require timely submission of system operational data.

Brief Description (Describe the proposed standard in sufficient detail to clearly define the scope in a manner that can be easily understood by others.)

The IDCWG and the ORS propose revising Requirement 4 of IRO-004 as follows: R4. Each Transmission Operator, Balancing Authority, Transmission Owner, Generator Owner, Generator Operator, and Load-Serving Entity in the Reliability Coordinator Area shall provide information required for system studies, such as critical facility status, Load, generation facility, operating reserve projections, and known Interchange Transactions. This information shall be available as soon as it is known by the Eastern Interconnection Transmission Operator, Balancing Authority, Transmission Owner, Generator Owner, Generator Operator, and Load Serving Entity and will be submitted with the next hourly system data exchange update. This information shall be made available by ~~1200 Central Standard Time for the Eastern Interconnection~~ 1200 Pacific Standard Time for the Western Interconnection.

For the purpose of clarifying Requirement R4 add a footnote that states:

Critical facility, as defined in this document, shall be any principle bulk electric facility that may be adversely affected by a contingency in another system of if a NERC System Operating Limit or Interconnection Reliability Operating Limit exists for the facility

At a minimum, the critical facility statuses shall include for each entity:

1. Any transmission equipment 100 kV and above
2. Any generation facility 20 MW and above

The IDCWG and ORS also propose revised the Compliance Section of IRO-004, specifically the "Levels of Non-Compliance" as follows:

Level 1: System studies were not conducted for one day in a calendar month, ~~and/or~~ the action plans were not developed to maintain transmission loading within acceptable limits for potential interface and other IROL violations, or load data and known critical facility outages for the next day that were not reported to the NERC system data exchange by noon central prevailing time the day prior.

Level 2: System studies were not conducted for 2-3 days in a calendar month, ~~and/or~~ the action plans were not developed to maintain transmission loading within acceptable limits for potential interface and other IROL violations, or load data and known critical facility outages for the next day that were not reported to the NERC system data exchange by noon central prevailing time the day prior for 2-3 days in a calendar month.

Level 3: System studies were not conducted for 4-5 days in a calendar month, ~~and/or~~ the action plans were not developed to maintain transmission loading within acceptable limits for potential interface and other IROL violations, or load data and known critical facility outages for the next day that were not reported to the NERC system data exchange by noon central prevailing time the day prior for 4-5 days in a calendar month.

Lovel 4: System studies were not conducted for more than 5 days in a calendar month, ~~and/or~~ the action plans were not developed to maintain transmission loading within acceptable limits for potential interface and other IROL violations, or load data and known critical facility outages for the next day that were not reported to the NERC system data exchange by noon central prevailing time the day prior for more than 5 days in a calendar month.

Reliability Functions

The Standard will Apply to the Following Functions *(Check box for each one that applies.)*		
☒	Reliability Authority	Ensures the reliability of the bulk transmission system within its Reliability Authority area. This is the highest Reliability Authority.
☒	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within its metered boundary and supports system frequency in real time.
☐	Interchange Authority	Authorizes valid and balanced Interchange Schedules.
☐	Planning Authority	Plans the Bulk Electric System.
☐	Resource Planner	Develops a long-term (>one year) plan for the resource adequacy of specific loads within a Planning Authority area.
☐	Transmission Planner	Develops a long-term (>one year) plan for the reliability of transmission systems within its portion of the Planning Authority area.
☐	Transmission Service Provider	Provides transmission services to qualified market participants under applicable transmission service agreements
☒	Transmission Owner	Owns transmission facilities.
☒	Transmission Operator	Operates and maintains the transmission facilities, and executes switching orders.
☐	Distribution Provider	Provides and operates the “wires” between the transmission system and the customer.
☒	Generator Owner	Owns and maintains generation unit(s).
☒	Generator Operator	Operates generation unit(s) and performs the functions of supplying energy and Interconnected Operations Services.
☐	Purchasing-Selling Entity	The function of purchasing or selling energy, capacity, and all necessary Interconnected Operations Services as required.
☐	Market Operator	Integrates energy, capacity, balancing, and transmission resources to achieve an economic, reliability-constrained dispatch.
☒	Load-Serving Entity	Secures energy and transmission (and related generation services) to serve the end user.

Reliability and Market Interface Principles

Applicable Reliability Principles *(Check box for all that apply.)*	
☒	1. Interconnected bulk electric systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.
☐	2. The frequency and voltage of interconnected bulk electric systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.
☒	3. Information necessary for the planning and operation of interconnected bulk electric systems shall be made available to those entities responsible for planning and operating the systems reliably.
☐	4. Plans for emergency operation and system restoration of interconnected bulk electric systems shall be developed, coordinated, maintained and implemented.
☐	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk electric systems.
☐	6. Personnel responsible for planning and operating interconnected bulk electric systems shall be trained, qualified, and have the responsibility and authority to implement actions.
☒	7. The security of the interconnected bulk electric systems shall be assessed, monitored and maintained on a wide area basis.

Does the proposed Standard comply with all of the following Market Interface Principles? *(Select 'yes' or 'no' from the drop-down box.)*
1. The planning and operation of bulk electric systems shall recognize that reliability is an essential requirement of a robust North American economy. Yes
2. An Organization Standard shall not give any market participant an unfair competitive advantage.Yes
3. An Organization Standard shall neither mandate nor prohibit any specific market structure. Yes
4. An Organization Standard shall not preclude market solutions to achieving compliance with that Standard. Yes
5. An Organization Standard shall not require the public disclosure of commercially sensitive information. All market participants shall have equal opportunity to access commercially non-sensitive information that is required for compliance with reliability standards. Yes

Related Standards

Standard No.	Explanation

Related SARs

SAR ID	Explanation

Regional Differences

Region	Explanation
ERCOT	
FRCC	
MRO	
NPCC	
SERC	
RFC	
SPP	
WECC	