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Standard Authorization Request Form

Title of Proposed Standard: NERC Glossary of Terms - Phase 2: Revision of the Bulk Electric System definition.
Request Date:
SC Approval Date:

SAR Requester Information	SAR Type (Check a box for each one that applies.)	
Name: Project 2010-17 Definition of Bulk Electric System (BES) SDT	<input type="checkbox"/>	New Standard
Primary Contact: Peter Heidrich (Manager of Reliability Standards, FRCC) , Project 2010-17 Definition of Bulk Electric System (BES) SDT Chair	<input checked="" type="checkbox"/>	Revision to existing Standard
Telephone: (813) 207-7994 Fax: (813) 289-5646	<input type="checkbox"/>	Withdrawal of existing Standard
E-mail: pheidrich@frcc.com	<input type="checkbox"/>	Urgent Action

<p>Purpose (Describe what the standard action will achieve in support of bulk power system reliability.)</p> <p>Research possible revisions to the definition of Bulk Electric System (BES) (Phase 2) to address the issues identified through Project 2010-17 Definition of Bulk Electric System (BES) (Phase 1). The definition encompasses all Elements necessary for the reliable operation of the interconnected transmission network. The definition development may include other improvements to the definition as deemed appropriate by the drafting team, with the consensus of stakeholders, consistent with establishing a high quality and technically sound definition of the Bulk Electric System (BES).</p>
<p>Industry Need (Provide a justification for the development or revision of the standard, including an assessment of the reliability and market interface impacts of implementing or not implementing the standard action.)</p> <p>This project supports the ERO's obligation to identify the Elements necessary for the reliable operation of the interconnected transmission network to ensure that the ERO, the Regional Entities, and the industry have the ability to properly identify the applicable entities and Elements subject to the NERC Reliability Standards.</p>
<p>Brief Description (Provide a paragraph that describes the scope of this standard action.)</p> <p>Research possible revisions to the definition of Bulk Electric System (BES) developed in Phase 1 of this</p>

project to provide a technically justifiable definition that identifies the appropriate electrical components necessary for the reliable operation of the interconnected transmission network. The definition development may include other improvements to the definition as deemed appropriate by the drafting team, with the consensus of stakeholders, consistent with establishing a high quality and technically sound definition of the Bulk Electric System (BES).

Detailed Description (Provide a description of the proposed project with sufficient details for the standard drafting team to execute the SAR.)

Research possible revisions to the definition of Bulk Electric System (BES) developed in Phase 1 of this project to provide a technically justifiable definition that identifies the appropriate electrical components necessary for the reliable operation of the interconnected transmission network. The definition development will include an analysis of the following issues, from a continent-wide and an interconnection-wide basis, which were identified by the drafting team during the development of Project 2010-17 Definition of the Bulk Electric System. Clarification of these issues will appropriately define which Elements are necessary for the reliable operation of the interconnected transmission network.

- Determine the reliability benefit of a contiguous BES
- Determine the appropriate 'points of demarcation' between Transmission, Generation, and Distribution
- Determine the appropriate threshold for Generation Resources which supports reliable operation of the Bulk Electric System (BES)
- Determine the scope and significance of the equipment which supports the reliable operation of the Bulk Electric System (BES)
- Clarify the relationship between the BES definition and the ERO Statement of Compliance Registry Criteria established in FERC Order 693

Phase 2 of the definition development may include other improvements to the definition as deemed appropriate by the drafting team, with the consensus of stakeholders, consistent with establishing a high quality and technically justifiable definition of the Bulk Electric System (BES).

Based on the potential revisions to the definition of the Bulk Electric System (BES) and an analysis of the application of, and the results from, the exception process, the drafting team will review and if necessary propose revisions to the 'Technical Principles' associated with the Rules of Procedure Exception Process to ensure consistency in the application of the definition and the exception process.

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Reliability Functions

The Standard will Apply to the Following Functions <i>(Check box for each one that applies.)</i>		
<input checked="" type="checkbox"/>	Reliability Assurer	Monitors and evaluates the activities related to planning and operations, and coordinates activities of Responsible Entities to secure the reliability of the bulk power system within a Reliability Assurer Area and adjacent areas.
<input checked="" type="checkbox"/>	Reliability Coordinator	Responsible for the real-time operating reliability of its Reliability Coordinator Area in coordination with its neighboring Reliability Coordinator's wide area view.
<input checked="" type="checkbox"/>	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within a Balancing Authority Area and supports Interconnection frequency in real time.
<input type="checkbox"/>	Interchange Authority	Ensures communication of interchange transactions for reliability evaluation purposes and coordinates implementation of valid and balanced interchange schedules between Balancing Authority Areas.
<input checked="" type="checkbox"/>	Planning Coordinator	Assesses the longer-term reliability of its Planning Coordinator Area.
<input checked="" type="checkbox"/>	Resource Planner	Develops a >one year plan for the resource adequacy of its specific loads within its portion of the Planning Coordinator's Area.
<input checked="" type="checkbox"/>	Transmission Owner	Owns and maintains transmission facilities.
<input checked="" type="checkbox"/>	Transmission Operator	Ensures the real-time operating reliability of the transmission assets within a Transmission Operator Area.
<input checked="" type="checkbox"/>	Transmission Planner	Develops a >one year plan for the reliability of the interconnected Bulk Electric System within the Transmission Planner Area.
<input checked="" type="checkbox"/>	Transmission Service Provider	Administers the transmission tariff and provides transmission services under applicable transmission service agreements (e.g., the pro forma tariff).
<input checked="" type="checkbox"/>	Distribution Provider	Delivers electrical energy to the End-use customer.
<input checked="" type="checkbox"/>	Generator Owner	Owns and maintains generation facilities.
<input checked="" type="checkbox"/>	Generator Operator	Operates generation unit(s) to provide real and reactive power.
<input type="checkbox"/>	Purchasing-Selling Entity	Purchases or sells energy, capacity, and necessary reliability-related services as required.
<input checked="" type="checkbox"/>	Load-Serving Entity	Secures energy and transmission service (and reliability-related services) to serve the End-use Customer.

Reliability and Market Interface Principles

Applicable Reliability Principles <i>(Check box for all that apply.)</i>	
<input checked="" type="checkbox"/>	1. Interconnected bulk power systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.
<input checked="" type="checkbox"/>	2. The frequency and voltage of interconnected bulk power systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.
<input checked="" type="checkbox"/>	3. Information necessary for the planning and operation of interconnected bulk power systems shall be made available to those entities responsible for planning and operating the systems reliably.
<input checked="" type="checkbox"/>	4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained and implemented.
<input checked="" type="checkbox"/>	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk power systems.
<input checked="" type="checkbox"/>	6. Personnel responsible for planning and operating interconnected bulk power systems shall be trained, qualified, and have the responsibility and authority to implement actions.
<input checked="" type="checkbox"/>	7. The security of the interconnected bulk power systems shall be assessed, monitored and maintained on a wide area basis.
<input checked="" type="checkbox"/>	8. Bulk power systems shall be protected from malicious physical or cyber attacks.
Does the proposed Standard comply with all of the following Market Interface Principles? <i>(Select 'yes' or 'no' from the drop-down box.)</i>	
1. A reliability standard shall not give any market participant an unfair competitive advantage. Yes	
2. A reliability standard shall neither mandate nor prohibit any specific market structure. Yes	
3. A reliability standard shall not preclude market solutions to achieving compliance with that standard. Yes	
4. A reliability 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	

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Related Standards

Standard No.	Explanation

Related SARs

SAR ID	Explanation

Regional Variances

Region	Explanation
FRCC	
MRO	
NPCC	
SERC	
TRE	
RFC	
SPP	
WECC	