

Standards Authorization Request Form

When completed, please email this form to:
sarcomm@nerc.com

NERC welcomes suggestions to improve the reliability of the Bulk-Power System through improved reliability standards. Please use this form to submit your request to propose a new or a revision to a NERC's Reliability Standard.

Request to propose a new or a revision to a Reliability Standard

Title of Proposed Standard:	Cyber Security Standards		
Date Submitted:	January 15, 2014		
SAR Requester Information			
Name:	Ryan Stewart		
Organization:	NERC		
Telephone:	404-446-2569	E-mail:	Ryan.Stewart@nerc.net
SAR Type (Check as many as applicable)			
<input checked="" type="checkbox"/> New Standard	<input checked="" type="checkbox"/> Withdrawal of existing Standard		
<input checked="" type="checkbox"/> Revision to existing Standard	<input type="checkbox"/> Urgent Action		

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Purpose (Describe what the standard action will achieve in support of Bulk Electric System reliability.):

The purpose of the proposed project is to address the directives from FERC Order No. 791 to develop or modify the CIP standards.

Industry Need (What is the industry problem this request is trying to solve?):

On November 22, 2013, FERC issued Order No. 791, *Version 5 Critical Infrastructure Protection Reliability Standards*. In this order, FERC approved version 5 of the CIP standards, and also directed that NERC make the following modifications to those standards:

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1. Modify or remove the “identify, assess, and correct” language in 17 CIP version 5 requirements.
2. Develop modifications to the CIP standards to address security controls for Low Impact assets.
3. Develop requirements that protect transient electronic devices.
4. Create a definition of “communication networks” and develop new or modified standards that address the protection of communication networks.

FERC directed NERC to submit new or modified standards responding to the directives related to the “identify, assess, and correct” language and communication networks by February 3, 2015, one year from the effective date of Order No. 791. FERC did not place any time frame for NERC to respond to the Low Impact and transient electronic devices directives.

Brief Description (Provide a paragraph that describes the scope of this standard action.)

The proposed project will develop new or modify existing requirements in the CIP standards to address the directives from FERC Order No. 791. This project may also consider input that may be provided from CIP version 5 transition activities, for example from the NERC transition study or CIP Version 5 transition program.

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

As stated above, the purpose of the proposed project is to respond to the directives in FERC Order No. 791 and to respond within the timeframe required by the order for the directives related to the “identify, assess, and correct” language and communication networks. The following is a description of the responses the standard drafting team (SDT) shall consider during development of the new or modified standards:

- The SDT shall work to remove or modify the identify, access, and correct language. The SDT shall work with NERC compliance and enforcement staff to inform and educate stakeholders on the development of alternative approaches for accomplishing the goals underlying the inclusion of the identify, assess, and correct language without placing compliance language in those requirements.
- The SDT shall consider the necessary standard modifications to be developed that address security controls for Low Impact assets.
- The SDT shall consider whether any further standard protections are needed to address potential vulnerabilities associated with transient devices (e.g., thumb drives and laptop

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computers). During the development timeframe, the ERO will conduct a survey to determine the number of assets, by type, that fall outside the definition of BES Cyber Asset because the assets do not satisfy the “15-minute” parameter. The SDT shall review the results of this survey to inform its development of new or modified standards for the protection of transient devices or other elements of the CIP standards.

- The SDT shall consider how to define the term “communications networks” and new or modified standard(s) that address the Commission’s concerns for the protection of communication networks. As stated in Order No. 791, FERC staff will lead a technical conference that, among other things, will address the issue of protecting the non-programmable components of communication networks. The SDT shall review the technical conference testimony and comments to inform the development of the definition for communication networks and new or modified standards for the protection of communication networks.

When developing these new or modified CIP standards, the SDT may consider input from CIP version 5 transition activities, such as from the NERC transition study or CIP Version 5 transition program.

Reliability Functions

The Standard will Apply to the Following Functions (Check each one that applies.)

<input type="checkbox"/> Regional Reliability Organization	Conducts the regional activities related to planning and operations, and coordinates activities of Responsible Entities to secure the reliability of the Bulk Electric System within the region and adjacent regions.
<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 checked="" 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 type="checkbox"/> Planning Coordinator	Assesses the longer-term reliability of its Planning Coordinator Area.

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Reliability Functions	
<input type="checkbox"/> Resource Planner	Develops a >one year plan for the resource adequacy of its specific loads within a Planning Coordinator area.
<input type="checkbox"/> Transmission Planner	Develops a >one year plan for the reliability of the interconnected Bulk Electric System within its portion of the Planning Coordinator area.
<input 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"/> 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"/> 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 type="checkbox"/> Market Operator	Interface point for reliability functions with commercial functions.
<input 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 (Check all that apply).	
<input 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 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 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.

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Reliability and Market Interface Principles	
<input 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?	
	Enter (yes/no)
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

Related Standards	
Standard No.	Explanation
CIP-002-5.1	BES Cyber System Categorization
CIP-003-5	Security Management Controls
CIP-004-5.1	Personnel & Training
CIP-005-5	Electronic Security Perimeter(s)
CIP-006-5	Physical Security of BES Cyber Systems
CIP-007-5	Systems Security Management
CIP-008-5	Incident Reporting and Response Planning

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Related Standards	
CIP-009-5	Recovery Plans for BES Cyber Systems
CIP-010-1	Configure Change Management and Vulnerability Assessments
CIP-011-1	Information Protection

Related SARs	
SAR ID	Explanation

Regional Variances	
Region	Explanation
ERCOT	None
FRCC	None
MRO	None
NPCC	None
RFC	None
SERC	None
SPP	None

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Regional Variances	
WECC	None