

Standard Authorization Request Form

Title of Proposed Standard	Remote Access Cyber Asset Protections
Request Date	11/3/2010
SC Approval Date	11/11/2010

SAR Requester Information		SAR Type <i>(Check a box for each one that applies.)</i>	
Name	Ed Goff	<input type="checkbox"/>	New Standard
Primary Contact		<input checked="" type="checkbox"/>	Revision to existing Standard CIP-005-3 - Cyber Security — Electronic Security Perimeter
Telephone	(919) 812-2202	<input type="checkbox"/>	Withdrawal of existing Standard
Fax			
E-mail	edwin.goff@pgnmail.com	<input checked="" type="checkbox"/>	Expedited Process

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Purpose (Describe what the standard action will achieve in support of bulk power system reliability.)

Provide requirements for Cyber Assets used to access Critical Cyber Assets (and other non-critical Cyber Assets within a defined Electronic Security Perimeter) from outside their Electronic Security Perimeter.

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.)

Recent discovery and announcement of vulnerabilities for remote access methods and technologies, that were previously thought secure and in use by a number of large electric sector entities, necessitate urgent changes to industry security control standards. Currently, no requirements or guidance documents are available to either require or recommend how secure remote access to Critical Cyber Assets (and other non-critical Cyber Assets within a defined Electronic Security Perimeter) for the purpose of remote support and maintenance of those Cyber Assets can or should be accomplished.

This expedited process will provide a set of mandatory and auditable requirement(s) for configuring secure remote access to Cyber Assets and electronic access control points (and other non-critical Cyber Assets within a defined Electronic Security Perimeter) for the purpose of remote support and maintenance of those Cyber Assets. A supplementary guidance document recommends actions and best practice use-cases of 'in-place' implementations to show how secure remote access may be implemented by a Responsible Entity and will be posted for stakeholder comment at the same time as the proposed modifications to the standard.

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

A Requirement will be added to CIP-005-3 that describes requirements placed on the access control points which are used to provide the external access, and a requirement for an acceptable use statement for Cyber Assets used for remote access.

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

This SAR includes 1) this SAR document; and 2) the proposed modification language to CIP-005-3.

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Reliability Functions

The Standard will Apply to the Following Functions <i>(Check box for each one that applies.)</i>		
<input 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 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.
<input 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 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 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 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.
<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 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
CIP-005-3	Electronic Security Perimeters

Related SARs

SAR ID	Explanation

Regional Variances

Region	Explanation
ERCOT	
FRCC	
MRO	
NPCC	
SERC	
RFC	
SPP	
WECC	