

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:	Available Transmission System Capability		
Date Submitted:	July 3 Original: July 3, 2013 Revised: September 25, 2013		
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		

SAR Information

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

~~Resolve~~ The industry need is to resolve FERC directives, incorporate lessons learned, update standards, and ~~to~~ incorporate ERO initiatives, including drafting such as results-based ~~,or,~~ performance-based, standards consistent with Paragraph 81 ~~,et~~ criteria. The industry need is to also reviewing the assessments and recommendations of the Independent Experts Review Panel in support of transforming the existing set of NERC Reliability Standards into steady state. The industry reliability need is to ensure that determinations of available transfer capability are accomplished in a manner that

SAR Information

supports the reliable operation of the Bulk Power System, etc.

Purpose or Goal (How does this request propose to address the problem described above?):

The ~~pro-forma standard~~ SAR proposes (1) modifying standards MOD-001, MOD-004, MOD-008, MOD-028, MOD-029, and MOD-030 by combining consolidating them into ~~one~~ a single standard by consolidates consolidating focused exclusively on the reliability components of the existing standards and ~~retires~~ (2) transferring the market-based requirements to another organization, like NAESB, that administers business practice standards for the electric industry.

Identify the Objectives of the proposed standard's requirements (What specific reliability deliverables are required to achieve the goal?):

The objectives are to address the outstanding directives from FERC Order 729, remove market-based requirements from the requirements, and incorporate lessons learned. Lessons learned include best practices by entities, sharing of those best practices, compliance audit experiences, and growth and maturity of the markets. As noted above, the objective is to draft a standard that helps ensure that determinations of available transfer capability are accomplished in a manner that supports the reliable operation of the Bulk Power System.

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

~~An informal development ad hoc group is presenting a pro-forma standard that~~ This project will address the consolidates-consolidation of the existing standards MOD-001-1a, MOD-004-1, MOD-008-1, MOD-028-1, MOD-029-1a, and MOD-030-2 into a single standard that covers the reliability-related impact of Available Transfer Capability (ATC) and Available Flowgate Capability (AFC) calculations, such as the need for Transmission Service Providers to implement their ATC or AFC calculations in a consistent manner and share ATC or AFC data with their neighboring Transmission Service Providers or other entities who need such data for reliability purposes.

The pro forma standard requirements are placed within a new version of MOD-001 (MOD-001-2).

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.)

Detailed description of this project can be found in the Technical White Paper ~~of this~~ provided in the initial SAR submittal package.

SAR Information

NERC is working with the North American Energy Standards Board (NAESB) to affect a transfer of the requirements in currently effective Reliability Standards MOD-001-1, MOD-004-1, MOD-008-1, MOD-028-2, MOD-029-1a and MOD-030-2 (i.e., the MOD A Standards) that are not included in proposed MOD-001-2 to NAESB to be reviewed for possible inclusion in NAESB’s business practice standards. NERC and the Project 2012-05 ATC Revisions standard drafting team recognize that even if certain requirements in the existing MOD A Standards do not address reliability issues and, in turn, are not included in proposed MOD-001-2, those requirements or components within them may be essential for market or competition purposes and should be transitioned to an organization that focuses on market-based standards. Given its role in developing commercial business practices for the electricity industry, NAESB is likely to be the appropriate organization to review the requirements in the currently effective MOD A Standards that are not included in proposed MOD-001-2. [consider moving this up to objectives section]

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 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 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 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

Reliability Functions	
	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 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"/> 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"/> Distribution Provider	Delivers electrical energy to the End-use customer.
<input type="checkbox"/> Generator Owner	Owns and maintains generation facilities.
<input 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 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 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 type="checkbox"/>	4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained and implemented.

Reliability and Market Interface Principles

<input 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 type="checkbox"/>	7. The security of the interconnected bulk power systems shall be assessed, monitored and maintained on a wide area basis.
<input 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
MOD-001-1a	Available Transmission System Capability
MOD-004-1	Capacity Benefit Margin
MOD-008-1	Transmission Reliability Margin Calculation Methodology
MOD-028-1	Area Interchange Methodology
MOD-029-1a	Rated System Path Methodology
MOD-030-2	Flowgate Methodology

Related SARs

Related SARs	
SAR ID	Explanation

Regional Variances	
Region	Explanation
ERCOT	FERC Order 729 states, in Paragraph 298, "...it is appropriate to exempt entities within ERCOT from complying with these Reliability Standards. We agree that, due to physical differences of ERCOT's transmission system, the MOD Reliability Standards approved herein would not provide any reliability benefit within ERCOT."
FRCC	None
MRO	None
NPCC	None
RFC	None
SERC	None
SPP	None
WECC	None