

## Standards Authorization Request Form

When completed, please email this form to:  
[sarcomm@nerc.com](mailto: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:	Revised: September 25, 2013 Original: July 3, 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?):

The industry need is to resolve FERC directives, incorporate lessons learned, update standards, and to incorporate initiatives such as results-based, Paragraph 81, etc. The industry is also reviewing the assessments and recommendations of the Independent Experts Review Panel in support of transforming the existing set of NERC Reliability Standards to steady-state.

**Standards Authorization Request Form**

SAR Information
Purpose or Goal (How does this request propose to address the problem described above?):
The SAR proposed modifying standards MOD-001, MOD-004, MOD-008, MOD-028, MOD-029, and MOD-030 by combining them into one standard by consolidating the reliability components of the existing standards, retiring the administrative components and transferring market-based requirements out of the NERC Reliability Standards.
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 administrative and market-based requirements from the requirements, and, as possible, incorporate lessons learned. Lessons learned include best practices by entities, compliance audit experiences with regard to clear requirements and measures, and growth and maturity in the methods for determining Total Transfer Capability (TTC), Total Flowgate Capability (TFC), Transmission Reliability Margin (TRM), Capacity Benefit Margin (CBM), Available Transfer Capability (ATC) and Available Flowgate Capability (AFC).
Brief Description (Provide a paragraph that describes the scope of this standard action.)
Develop a single standard that consolidates the existing 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 ATC and 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 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 the original SAR submittal package.  NERC is working with the North American Energy Standards Board (NAESB) to affect a transfer of the requirements in the currently effective Reliability Standards MOD-001-1, MOD-004-1, MOD-008-1,

**Standards Authorization Request Form**

**SAR Information**

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 selected by FERC as the appropriate organization to review the requirements in the currently effective MOD A Standards that are not included in proposed MOD-001-2.

**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 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.

## Standards Authorization Request Form

Reliability Functions	
<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 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.
<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.

**Standards Authorization Request Form**

Reliability and Market Interface Principles	
<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	
SAR ID	Explanation

**Standards Authorization Request Form**

Related SARs	

Regional Variances	
Region	Explanation
ERCOT	FERC Order No. 729 at P 298 states: "...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