

Standard Authorization Request (SAR) Form

Title of Proposed Standard:	Determine Facility Ratings, Operating Limits, and Transfer Capabilities
Request Date:	March 7, 2002
Authorized for Posting:	March 20, 2002
SAR ID#:	FACILITY_RATINGS_01_01

SAR Requestor Information		SAR Type (Put an 'x' in front of one of these selections)	
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Purpose/Industry Need (Provide one or two sentences)

To establish a standard requiring the determination of equipment ratings, system operating limits, and transfer capabilities which are necessary for the reliable operation of the power system.

Brief Description (A few sentences or a paragraph) Provide enough detail so that an independent entity familiar with the industry could draft a Standard based on this description.)

Facility Ratings:

Requirements shall be established requiring the determination of facility ratings needed to protect system equipment. Facilities included in the standard shall be those that affect reliability such as substation, generation, and transmission equipment. The facility ratings to be addressed in the standard shall include thermal limits, voltage limits, and other limits as applicable to the equipment.

System Operating Limits and Transfer Capabilities:

Requirements shall be established for determining and coordinating system operating limits and transfer capabilities that are consistent with facility ratings in protecting system equipment and in meeting predefined system reliability requirements. Operating limits and transfer capabilities to be addressed in the standard shall be required to adhere to established limits such as voltage limits, frequency limits, power transfer limits (both thermal and stability), etc.

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Reliability Functions

The Standard will Apply to the Following Functions (Put an 'X' in front of each one that applies)		
X	Reliability Authority	Ensures the reliability of the bulk transmission system within its Security Authority Area. This is the highest reliability authority.
	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within its metered boundary and supports system frequency in real time
	Interchange Authority	Authorizes valid and balanced Interchange Schedules
X	Planning Authority	Plans the bulk electric system
	Transmission Service Provider	Provides transmission services to qualified market participants under applicable transmission service agreements
X	Transmission Owner	Owns transmission facilities
	Transmission Operator	Operates and maintains the transmission facilities, and executes switching orders
X	Distribution Provider	Provides and operates the "wires" between the transmission system and the customer
X	Generator	Owns and operates generation unit(s) or runs a market for generation products that performs the functions of supplying energy and Interconnected Operations Services
	Purchasing-Selling Entity	The function of purchasing or selling energy, capacity and all necessary Interconnected Operations Services as required.
	Load-Serving Entity	Secures energy and transmission (and related generation services) to serve the end user

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Reliability and Market Interface Principles

Applicable Reliability Principles <i>(Put an 'x' in front of all that apply)</i>	
	1. Interconnected bulk electric systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions.
	2. The frequency of interconnected bulk electric systems shall be controlled within defined limits through the balancing of electric supply and demand
X	3. Information necessary for planning and operation of interconnected bulk electric systems shall be made available to those entities responsible for planning and operating the systems reliably
	4. Plans for emergency operation and system restoration of interconnected bulk electric systems shall be developed, coordinated, maintained and implemented
	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk electric systems
	6. Personnel responsible for planning and operating interconnected bulk electric systems shall be trained, qualified and have the responsibility and authority to implement actions
	7. The security of the interconnected bulk electric systems shall be assessed, monitored and maintained on a wide area basis
<p>Does the proposed Standard comply with all of the following Market Interface Principles? Yes</p> <p><i>(Enter 'yes' or 'no')</i></p>	
	1. Interconnected The planning and operation of bulk electric systems shall recognize that reliability is an essential requirement of a robust North American economy
	2. An Organization Standard shall not give any market participant an unfair competitive advantage
	3. An Organization Standard shall neither mandate nor prohibit any specific market structure
	4. An Organization Standard shall not preclude market solutions to achieving compliance with that Standard
	5. An Organization 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