

Standard Authorization Request Form

Supplemental SAR for Project 2010-13.2 Relay Loadability Order 733 Phase 2 (Relay Loadability: Generation)	
Request Date	11/30/2012
SC Approval Date	01/18/2013
Revised Date	

SAR Requester Information	SAR Type (Check a box for each one that applies.)	
Name Howard Gugel, Director of Standards Development	<input type="checkbox"/>	New Standard
Primary Contact Scott Barfield-McGinnis, Standards Developer	<input checked="" type="checkbox"/>	Revision to existing Standard
Telephone 404-446-9689 Fax	<input type="checkbox"/>	Withdrawal of existing Standard
E-mail scott.barfield@nerc.net	<input type="checkbox"/>	Urgent Action

Purpose

Prevent a potential compliance overlap with the current Reliability Standard PRC-023-2 – Transmission Relay Loadability, which became effective July 1, 2012. The overlap would be created when the proposed PRC-025-1 – Generator Relay Loadability, which is currently under development, is approved and becomes effective.

Industry Need

The generator relay loadability standard drafting team identified conditions in the development of the drafting of the PRC-025-1 standard that would create the potential for overlap (e.g., “double jeopardy”) and confusion as to which standard is applicable to the Generator Owner entity (i.e., PRC-023-2 or PRC-025-1).

Brief Description

This request includes modifying PRC-023-2 to add clarity to the Applicability section of the PRC-023-2 standard. Other modifications include updating references from the version number to reflect the new version number. Detail regarding the effective dates may be removed as the new version is anticipated to become approved beyond the implementation plan for the current version.

Detailed Description

The generator relay loadability standard drafting team (GENRLOS DT) continues to evaluate the best alternative to modifying PRC-023-2 to clarify the Generator Owner’s applicability with regard to load-responsive protective relays. The drafting team has provided a redline draft to PRC-023-2 with a proposed solution to the issue; however, the drafting team recognizes that the draft PRC-025-1 may provide the opportunity to remove the Generator Owner from PRC-023-2 and therefore eliminate the overlap and confusion without creating a gap in reliability.

The drafting team considered whether changes would be necessary to Requirement R1, criterion 6 and decided it should remain in the standard as there may be cases where PRC-023 will be applicable to lines that connect generation stations remote to load. The drafting team has not revealed any concerns about this criterion in relation to the proposed PRC-025-1 standard currently being drafted.

The effective date of the draft PRC-023-3 is anticipated to occur beyond the Implementation Plan approved in version two; therefore, the effective date tables are proposed for removal. If an interim implementation is required to bridge PRC-023-2 to the next version, the standard drafting team will modify the effective date tables accordingly.

A complete review of the standard will be conducted to reveal any editorial edits that may be needed to improve the quality of the Reliability Standard.

Industry commenting, balloting, and approval of the revisions to the draft PRC-023-3 standard will occur contemporaneously with the drafting of the proposed PRC-025-1 standard. Adoption of PRC-023-3 will be contingent upon PRC-025-1.

Reliability Functions

The Standard will Apply to the Following Functions <i>(Check box for each one that applies.)</i>		
<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 checked="" 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 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 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"/>	Distribution Provider	Delivers electrical energy to the End-use customer.
<input checked="" 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"/>	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 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 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.
<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? <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	

Related Standards

Standard No.	Explanation
None.	

Related SARs

SAR ID	Explanation

Regional Variances

Region	Explanation
ERCOT	None.
FRCC	None.
MRO	None.
NPCC	None.
RFC	None.
SERC	None.
SPP	None.
WECC	None.