NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Implementation Plan
Project 2010-13.2 - Relay Loadability: Generator

Requested Approvals

- PRC-023-3 – Transmission Relay Loadability

Requested Retirements

- PRC-023-2 – Transmission Relay Loadability

Prerequisite Approvals

- PRC-025-1 – Generator Relay Loadability

  A supplemental SAR was approved by the Standards Committee at their January 16-17, 2013 meeting to authorize the drafting team to make changes to PRC-023-2 to comport with the proposed draft PRC-025-1 – Generator Relay Loadability and in order to establish a bright line between the applicability of load-responsive protective relays in the current transmission and the proposed generator relay loadability standards.

Revisions to Defined Terms in the NERC Glossary

- None

Background

The generator relay loadability standard drafting team and industry stakeholders raised a concern about the potential for overlap between existing PRC-023-2 – Transmission Relay Loadability standard, effective in the United States on July 1, 2012, and the proposed PRC-025-1 – Generator Relay Loadability standards. The concern is that there was no bright line to clearly distinguish which load-responsive protective relays pertain to each standard. The drafting team researched the issue and proposed to modify the applicability section of PRC-023-2 to clarify the each functional entity's applicability with respect to which terminal the load-responsive protective relay is connected to within the Transmission system.

General Considerations

The Implementation Plan period reflects consideration that a specific period is not required because no new entity or facilities are subject to compliance. Also, it is expected that implementation plan and period for PRC-023-2 will have been achieved and that it will not need to be considered in conjunction with this revision.

Applicable Entities

- Distribution Provider

- Generator Owner
- Planning Coordinator
- Transmission Owner

Effective Date

New Standard

PRC-023-3 — First day of the first calendar quarter beyond the date that this standard is approved by applicable regulatory authorities, or in those jurisdictions where regulatory approval is not required, the standard becomes effective on the first day of the first calendar quarter beyond the date this standard is approved by the NERC Board of Trustees, or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.

Standards for Retirement

PRC-023-2 — Midnight of the day immediately prior to the Effective Date of PRC-023-2 – Transmission Relay Loadability in the particular jurisdiction in which the new standard is becoming effective.

Implementation Plan for Definitions

No definitions are proposed as a part of this standard.

Implementation Plan for PRC-023-3, All requirements

Each Distribution Provider, Generator Owner, Planning Coordinator, and Transmission Owner applicable to this standard shall be 100% compliant on the effective date of the standard according to the jurisdiction.

Revisions or Retirements to Already Approved Standards

The following table identifies the sections of the approved standard that shall be retired or revised when this standard is implemented. If the drafting team is recommending the retirement or revision of a requirement, that text is blue.

Already Approved Standard	Proposed Replacement Requirement(s)
PRC-023-2 4.1. Functional Entity 4.1.1 Transmission Owners with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied to circuits defined in 4.2.1 *(Circuits Subject to Requirements R1 – R5).* 4.1.2 Generator Owners with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied to circuits defined in 4.2.1 *(Circuits Subject to Requirements R1 – R5).* 4.1.3 Distribution Providers with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied to circuits defined in 4.2.1*(Circuits Subject to Requirements R1 – R5)*, provided those circuits have bi-directional flow capabilities. 4.1.4 Planning Coordinators	**PRC-023-3** 4.1.Functional Entity 4.1.1 Transmission Owners with load-responsive phase protection systems as described in PRC-023-2 3 - Attachment A, applied **at the terminals of the** ~~**to**~~ circuits defined in 4.2.1 *(Circuits Subject to Requirements R1 – R5).* 4.1.2 Generator Owners with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied **at the terminals of the** ~~**to**~~ circuits defined in 4.2.1 *(Circuits Subject to Requirements R1 – R5).* 4.1.3 Distribution Providers with load-responsive phase protection systems as described in PRC-023-2 3 - Attachment A, applied **at the terminals of the** ~~**to**~~ circuits defined in 4.2.1 *(Circuits Subject to Requirements R1 – R5)*, provided those circuits have bi-directional flow capabilities. 4.1.4 Planning Coordinators
Notes: The change in applicability creates a bright line between those load-responsive protective relays that are applicable to PRC-023-3 – Transmission Relay Loadability and the proposed PRC-025-1 – Generator Relay Loadability. This is evident by the minor changes to the applicability text to distinguish the applicability of the relays by which "terminal" the load-responsive protective relay is connected to within the Transmission system.	