

Implementation Plan for PRC-023-2: Transmission Relay Loadability

Standards Involved

- PRC-023-2 —Transmission Relay Loadability

Prerequisite Approvals

There are no other reliability standards or Standard Authorization Requests (SARs), in progress or approved, that must be implemented before the Transmission Relay Loadability standard can be implemented.

Proposed Effective Date

Requirement R1: the first day of the first calendar quarter after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required, the first calendar quarter after Board of Trustees adoption except as noted below.

- For the addition to Requirement R1, criterion 10, to set transformer fault protection relays and transmission line relays on transmission lines terminated only with a transformer such that the protection settings do not expose the transformer to fault level and duration that exceeds its mechanical withstand capability, the first day of the first calendar quarter 12 months after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required, the first day of the first calendar quarter 12 months after Board of Trustees adoption.
- For supervisory elements as described in PRC-023 - Attachment A, section 1.6, the first day of the first calendar quarter 24 months after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required, the first day of the first calendar quarter 24 months after Board of Trustees adoption.

Requirements R2 and R3: the first day of the first calendar quarter after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required, the first day of the first calendar quarter after Board of Trustees adoption.

Requirements R4 and R5: the first day of the first calendar quarter six months after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required the first day of the first calendar quarter six months after Board of Trustees adoption.

Requirement R6: the first day of the first calendar quarter 18 months after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required the first day of the first calendar quarter 18 months after Board of Trustees adoption.

Requirement R7: the first day of the first calendar quarter after applicable regulatory approvals or in those jurisdictions where no regulatory approval is required, the first day of the first calendar quarter after Board of Trustees adoption.

Applicability

Requirements within the proposed standard apply to:

4.1. Functional Entities:

- 4.1.1 Transmission Owners with load-responsive phase protection systems as described in PRC-023 - Attachment A, applied to facilities defined in 4.2.1 through 4.2.6.
- 4.1.2 Generator Owners with load-responsive phase protection systems as described in PRC-023- Attachment A, applied to facilities defined in 4.2.1 through 4.2.6.
- 4.1.3 Distribution Providers with load-responsive phase protection systems as described in PRC-023- Attachment A, applied according to facilities defined in 4.2.1 through 4.2.6, provided those facilities have bi-directional flow capabilities.
- 4.1.4 Planning Coordinators

4.2. Facilities:

- 4.2.1 Transmission lines operated at 200 kV and above.
- 4.2.2 Transmission lines operated at 100 kV to 200 kV that the Planning Coordinator has determined are required to comply with this standard.
- 4.2.3 Transmission lines operated below 100 kV that Regional Entities have identified as critical facilities for the purposes of the Compliance Registry and the Planning Coordinator has determined are required to comply with this standard.
- 4.2.4 Transformers with low voltage terminals connected at 200 kV and above.
- 4.2.5 Transformers with low voltage terminals connected at 100 kV to 200 kV that the Planning Coordinator has determined are required to comply with this standard.
- 4.2.6 Transformers with low voltage terminals connected below 100 kV that Regional Entities have identified as critical facilities for the purposes of the Compliance Registry and the Planning Coordinator has determined are required to comply with this standard

Other entities may be recipients of data as described in this standard, but have no requirements placed upon them.

Retired Standards

The following standard will be retired when PRC-023-2 becomes effective:

- PRC-023-1 — Transmission Relay Loadability will be completely retired once PRC-023-2 becomes effective as specified above.