

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

1. Standards Involved

- ~~PRC-023-2~~ —Transmission Relay Loadability

2. 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.

3. Proposed Effective ~~Date~~ Dates

3.1. Requirement R1 ~~the~~

3.1.1. For transmission lines operating at 200 kV and above and transformers with low voltage terminals connected at 200 kV and above

~~2.1.1.1.3.1.1.1.~~ 3.1.1.1.1. 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.

~~2.1.1.1.1.3.1.1.1.1.~~ 3.1.1.1.1.1. 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.

~~2.1.1.1.2.3.1.1.1.2.~~ 3.1.1.1.2. For supervisory elements as described in PRC-023-2 - Attachment A, ~~section~~ 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 not required, the first day of the first calendar quarter 24 months after Board of Trustees adoption.

3.1.1.1.3. Requirements R2 and R3: For switch-on-to-fault schemes as described in PRC-023-2 - Attachment A, Section 1.3, the later of the first day of the first calendar quarter after applicable regulatory approvals of PRC-023-2 or the first day of the first calendar quarter 39 months following applicable regulatory approval of PRC-023-1; or in those jurisdictions where no regulatory approval is required, the later of the first day of the first calendar quarter after Board of Trustees adoption of PRC-023-2 or July 1, 2011.

3.1.2. For circuits identified by the Planning Coordinator pursuant to Requirement R6

3.1.2.1. The later of the first day of the first calendar quarter 39 months following notification by the Planning Coordinator of a circuit's inclusion on a list of

circuits subject to PRC-023-2 per application of Attachment B, or the first day of the first calendar year in which any criterion in Attachment B applies.

3.2. Requirements R2 and R3

3.2.1. For transmission lines operating at 200 kV and above and transformers with low voltage terminals connected at 200 kV and above.

~~2.1.1.2.~~**3.2.1.1.** 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.

3.2.2. For circuits identified by the Planning Coordinator pursuant to Requirement R6

3.2.2.1. The later of the first day of the first calendar quarter 39 months following notification by the Planning Coordinator of a circuit's inclusion on a list of circuits subject to PRC-023-2 per application of Attachment B, or the first day of the first calendar year in which any criterion in Attachment B applies.

3.3. Requirements R4 and R5:~~the~~

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.

3.4. Requirement R6:~~the~~

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 18 months after Board of Trustees adoption.

3.4. Applicability

3.1.4.1. Requirements within the proposed standard apply to: the following:

3.1.1.4.1.1. ~~4.1.~~ **Functional Entities:**~~Entity~~

~~3.1.1.1.4.1.1.1.~~ **4.1.1**—Transmission Owners with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied to ~~facilities~~circuits defined in 4.2.1 ~~through 4.2.6.~~(Circuits Subject to Requirements R1 – R5).

~~3.1.1.2.4.1.1.2.~~ **4.1.2**—Generator Owners with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied to ~~facilities~~circuits defined in 4.2.1 ~~through 4.2.6.~~(Circuits Subject to Requirements R1 – R5).

~~3.1.1.3.4.1.1.3.~~ **4.1.3**—Distribution Providers with load-responsive phase protection systems as described in PRC-023-2 - Attachment A, applied ~~according to~~ facilities~~circuits~~ defined in 4.2.1 ~~through 4.2.6.~~(Circuits Subject to Requirements R1 – R5), provided those ~~facilities~~circuits have bi-directional flow capabilities.

~~3.1.1.4.4.1.1.4.~~ **4.1.4**—Planning Coordinators

~~4.2. — Facilities:~~

~~4.1.2. 4.2.1 — Circuits~~

~~4.1.2.1. Circuits Subject to Requirements R1 – R5~~

~~3.1.1.4.1.4.1.2.1.1. — Transmission lines operated at 200 kV and above:~~

~~3.1.1.4.2.4.1.2.1.2. 4.2.2—Transmission lines operated at 100 kV to 200 kV that selected by the Planning Coordinator has determined are required to comply with this standard.~~

~~3.1.1.4.3.4.1.2.1.3. 4.2.3—Transmission lines operated below 100 kV that Regional Entities have identified as are included on a critical facilities for the purposes of list defined by the Compliance Registry Regional Entity¹ and selected by the Planning Coordinator has determined are required to comply with this standard. in accordance with R6~~

~~3.1.1.4.4.4.1.2.1.4. 4.2.4—Transformers with low voltage terminals connected at 200 kV and above:~~

~~3.1.1.4.5.4.1.2.1.5. 4.2.5—Transformers with low voltage terminals connected at 100 kV to 200 kV that selected by the Planning Coordinator has determined are required to comply with this standard.~~

~~3.1.1.4.6.4.1.2.1.6. 4.2.6—Transformers with low voltage terminals connected below 100 kV that Regional Entities have identified as are included on a critical facilities for list defined by the purposes of the Compliance Registry Regional Entity and selected by the Planning Coordinator has determined are required to comply with this standard~~

~~4.1.2.2. Circuits Subject to Requirement R6~~

~~4.1.2.2.1. Transmission lines operated at 100 kV to 200 kV and transformers with low voltage terminals connected at 100 kV to 200 kV~~

~~4.1.2.2.2. Transmission lines operated below 100 kV and transformers with low voltage terminals connected below 100 kV that are included on a critical facilities list defined by the Regional Entity~~

~~3.2.4.2. — Other entities may be recipients of data as described in this standard, but have no requirements placed upon them.~~

5. Implementation Dates

For circuits already identified and subject to the requirements in PRC-023-1, the existing implementation dates will remain in effect.

4.6. Retired Standards

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

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¹If the Regional Entity has developed such a list.

Requirement R1 of PRC-023-1 is retired the first day of the first calendar quarter after applicable regulatory approval, or in those jurisdictions where no regulatory approval is required, the first calendar quarter after Board of Trustees adoption.

Requirement R2 of PRC-023-1 is retired the first day of the first calendar quarter after applicable regulatory approval, or in those jurisdictions where no regulatory approval is required, the first day of the first calendar quarter after Board of Trustees adoption.

Requirement R3 of PRC-023-1 is retired the first day of the first calendar quarter 18 months after applicable regulatory approval, 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.

When all requirements of PRC-023-2 become effective in all jurisdictions as specified above, PRC-023-1 — Transmission Relay Loadability will be ~~completely retired once PRC-023-2 becomes effective as specified above.~~ retired.