

Implementation Plan ~~(Draft)~~

Project 2021-04

Reliability Standards PRC-002-5 and PRC-028-1

Applicable Standard(s)

- PRC-002-5 Disturbance Monitoring and Reporting Requirements
- PRC-028-1 Disturbance Monitoring and Reporting Requirements for Inverter-Based Resources

Requested Retirement(s)

- PRC-002-4 – Disturbance Monitoring and Reporting Requirements

Applicable Entities

- Reliability Coordinator
- Transmission Owner (TO)
- Generator Owner (GO)

General Considerations

Additional time to implement Reliability Standard PRC-002-5 is not provided because the revisions are clarifying in nature to exclude ~~inverter~~~~Inverter-based~~~~Based resources~~~~Resources~~ from PRC-002 applicability as they are included in PRC-028. The revision to PRC-002 does not require any procurement or installation of disturbance monitoring equipment.

The Reliability Standard PRC-028-1 is expected to have wide ranging impact on TOs and GOs as many existing and new facilities would be required to have disturbance monitoring equipment. A graduated approach to implementation recognizes that progress will be made while attempting to minimize any potential significant impact to the entities. The Implementation Plan takes into account scheduling outages needed to implement sequence of events recording, fault recording, and dynamic disturbance recording capability. An entity owning only one (1) identified generating plant/Facility is allowed three (3) calendar years for implementation to accommodate normal outage schedules. The Implementation Plan accounts for any increase in requests to vendors for this technology or capability that could impact implementation timelines for the respective entities. [The Implementation Plan recognizes Federal Energy Regulatory Commission's directive to have this standard effective and enforceable before 2030.](#)¹

¹ See Order No. 901 at P226.

Effective Date of PRC-002-5

Where approval by an Applicable Governmental Authority is required, Reliability Standard PRC-002-5 shall become effective on ~~the later of: (1)~~ the first day of the first calendar quarter after the effective date of the Applicable Governmental Authority's order approving the standard or as otherwise provided for by the Applicable Governmental Authority; ~~or (2) the effective date of PRC-002-4.~~

Where approval by an Applicable Governmental Authority is not required, Reliability Standard PRC-002-5 shall become effective ~~on the later of: (1)~~ the first day of the first calendar quarter after the date the standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction; ~~or (2) the effective date of PRC-002-4.~~

Effective Date of PRC-028-1 and Phased-in Compliance Dates

The effective date for proposed Reliability Standard PRC-028-1 is provided below. Where the standard drafting team identified the need for a longer implementation period for compliance with a particular section of a proposed Reliability Standard (i.e., an entire Requirement or a portion thereof), the additional time for compliance with that section is specified below. The phased-in compliance date for those particular sections represents the date that entities must begin to comply with that particular section of the Reliability Standard, even where the Reliability Standard goes into effect at an earlier date.

Reliability Standard PRC-028-1

Where approval by an Applicable Governmental Authority is required, Reliability Standard PRC-028-1 shall become effective on the first day of the first calendar quarter after the effective date of the Applicable Governmental Authority's order approving the standard or as otherwise provided for by the Applicable Governmental Authority.

Where approval by an Applicable Governmental Authority is not required, Reliability Standard PRC-028-1 shall become effective on the first day of the first calendar quarter after the date the standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.

Compliance Date for PRC-028-1 Requirements R1-R7

For Plants/Facilities in commercial operation on or before the effective date:

Entities shall ~~be fully compliant~~ comply with Requirements R1 through R7 at 50% ~~percent~~ of their generating plants/Facilities within three (3) calendar years of the effective date of PRC-028-1 and ~~fully compliant at~~ 100% of their generating plant/Facilities by January 1, 2030 ~~within six five (56) calendar years of the effective date of Reliability Standard PRC-028-1.~~

Entities that are required to monitor only one (1) generating plant/Facility shall ~~be fully compliant~~ comply with Requirements R1 through R7 within three (3) calendar years of the effective date of Reliability Standard PRC-028-1.

~~Entities with more than one (1) generating plant/Facility are encouraged to develop a strategy, to be shared with ERO Compliance Monitoring and Enforcement Program staff as requested, for how they will implement Reliability Standard PRC-028-1 across their generating fleet.~~

For Plants/Facilities entering commercial operation within one year after the effective date:

Entities shall comply with Requirements R1 through R7 by the end of the first calendar year that is 12 months following the effective date of the standard.

For Plants/Facilities entering commercial operation one year or later after the effective date:

Entities shall comply with Requirements R1 through R7 at the date of entering commercial operation.

Compliance Date for PRC-028-1 Requirement R8

Entities shall comply with Requirement R8 by no later than ~~be 100% compliant on the first day of the first calendar quarter~~ nine (9) months after the effective date of Reliability Standard PRC-028-1.

Compliance Date for PRC-028-1 Requirement R9

Entities shall comply with Requirement R9, as applicable, by no later than January 1, 2029.

Retirement Date

~~The~~ Reliability Standard PRC-002-4 shall be retired immediately prior to the effective date of Reliability Standard PRC-002-5 in the particular jurisdiction in which the revised standard is becoming effective.

~~Prior Implementation Plan~~

~~The following element of the Implementation Plan for PRC-002-4 is incorporated herein and modified in case PRC-002-4 is superseded by PRC-002-5 prior to becoming effective:~~

~~Reliability Coordinators in the Eastern Interconnection shall be fully compliant with Requirement R5 within six (6) months of the effective date of PRC-002-4 or six (6) months of the effective date of PRC-002-5, whichever occurs first.~~