

# 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 ~~h~~inverter-~~B~~based ~~R~~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 ~~h~~inverter-~~B~~based ~~R~~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 ~~d~~Disturbance ~~m~~Monitoring ~~e~~Equipment.

The Reliability Standard PRC-028-1 is expected to have wide ranging impact on TOs and ~~G~~Oes as many existing and new facilities would be required to have ~~d~~Disturbance ~~m~~Monitoring ~~e~~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 ~~g~~enerating ~~plant/Facility~~ inverter-based resource 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.<sup>1</sup>

<sup>1</sup> 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 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-002-5 shall become effective 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.

## 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 ~~inverter-based resources Plants/Facilities~~ in commercial operation on or before the effective date:

Entities shall comply with Requirements R1 through R7 at 50% of their ~~generating plants/Facilities~~ ~~inverter-based resources~~ within three (3) calendar years of the effective date of PRC-028-1 and 100% of their ~~generating plant/Facilities~~ ~~inverter-based resources~~ by January 1, 2030.

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

~~**For inverter-based resources facilities– entering commercial operation after the effective date:**  
Entities shall comply with Requirements R1 through R7 within 15 calendar months following the effective date of the standard or the commercial operation date, whichever is later.~~

~~**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 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.~~

## ~~**Process for Seeking an Extension from Compliance Dates**~~

~~Each GO and TO that owns one or more applicable inverter-based resources that are in commercial operation before the effective date of Reliability Standard PRC-028-1 may seek an extension from the above-listed compliance dates if circumstances beyond its control prevent the installation of Disturbance Monitoring Equipment on one or more of its inverter-based resources.~~

~~To seek an extension, the entity shall develop and submit to its Regional Entity<sup>2</sup> a request for extension that contains at a minimum the following information:~~

- ~~**1.1.** Identification of the inverter-based resource(s) for which the entity seeks the extension;~~
- ~~**1.2.** A plan for installing the Disturbance Monitoring Equipment and a timetable for completion;~~
- ~~**1.3.** A description of the circumstances precluding the timely installation of Disturbance Monitoring Equipment and how those circumstances are beyond the control of the entity; and~~
- ~~**1.4.** Any other information the entity deems relevant to the Regional Entity's consideration of its request.~~

~~The entity shall provide any information requested by the Regional Entity in connection with its request, including any information specified in a supporting process document. If the request is~~

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<sup>2</sup> ~~This is the Regional Entity that will receive any Corrective Action Plans developed in accordance with Requirement R8.~~

granted, the entity shall implement the plan in accordance with the provided timetable. Should additional time be required, the entity shall submit an updated request to its Regional Entity.

Requests should be submitted as soon as the entity identifies circumstances prescribing the timely implementation of Reliability Standard PRC-028-1, but no later than three months prior to the compliance date for which the entity seeks an extension.

## **Retirement Date**

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.