

Implementation Plan

Project 2023-02 Analysis and Mitigation of BES Inverter-Based Resource Performance Issues Reliability Standard PRC-030-1

Applicable Standard(s)

- PRC-030-1 Unexpected Inverter-Based Resource Event Mitigation

Requested Retirement(s)

- None

Prerequisite Standard(s)

These standard(s) or definitions must be approved before the Applicable Standard becomes effective:

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

Applicable Entities

- Generator Owner (GO)

Background

After Project 2023-02 was underway, FERC issued No. Order 901¹ that directs the development of new or modified reliability standards, including new requirements for disturbance monitoring, data sharing, post-event performance validation, and correction of IBR performance. In January 2024, NERC submitted a filing to FERC outlining a comprehensive work plan to address the directives within Order No. 901². Within the work plan, NERC identified three active Standards Development Projects that would need to be filed for regulatory approval with FERC November 4th, 2024. These projects include 2020-02 Modifications to PRC-024 (Generation Ride Through)³, 2021-04

¹ See FERC Order 901, Docket No. RM22-12-000; https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20231019-3157&optimized=false; October 19, 2023

² See INFORMATIONAL FILING OF THE NORTH AMERICAN RELIABILITY CORPORATION REGARDING THE DEVELOPMENT OF RELIABILITY STANDARDS RESPONSIVE TO ORDER NO. 901
https://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/NERC%20Compliance%20Filing%20Order%20No%20901%20Work%20Plan_packaged%20-%20public%20label.pdf; January 17, 2024

³ See NERC Standards Development Project page for Project 2002-02; https://www.nerc.com/pa/Stand/Pages/Project_2020-02_Transmission-connected_Resources.aspx

Modifications to PRC-002-2⁴, and 2023-02 Analysis and Mitigation of BES Inverter-Based Resources Performance Issues⁵.

General Considerations

The key development for applicable Functional Entities is a process to capture change in power events for IBR resources. The requested implementation timeline allows for ample time for entities to draft and implement their process. The information required for Standard compliance is currently available to Generator Owners.

Effective Date

The effective date for the proposed Reliability Standard is provided below.

Standard PRC-030-1

Where approval by an Applicable Governmental Authority is required, Reliability Standard PRC-030-1 shall become effective on the first day of the first calendar quarter that is six months 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-030-1 shall become effective on the first day of the first calendar quarter that is six months after the date the standard is adopted by the NERC Board of Trustees, or as otherwise provided for in that jurisdiction.

⁴ See NERC Standards Development Project page for Project 2021-04; <https://www.nerc.com/pa/Stand/Pages/Project-2021-04-Modifications-to-PRC-002-2.aspx>

⁵ See NERC Standards Development Project page for Project 2023-02; <https://www.nerc.com/pa/Stand/Pages/Project-2023-02-Performance-of-IBRs.aspx>