



Reliability Compliance Update

Gizella Mali
December 3, 2024
NERC Compliance

STANDARD:
MOD-025-3
PRC-019-3

Project 2021-01 System Model Validation with IBRs

PROJECT BACKGROUND:

Background

[FERC Order 901](#) – [Milestone 3](#)

Project 2021-01 will address system-level model verification and validation against actual behavior during disturbances, as well as aligning steady state and dynamic representation, where appropriate. Additional focus will be to develop criteria for performing validation, determine minimum study conditions for conducting validation studies, and develop a process to communicate system interconnection-wide model defects to Transmission Planners and other associated entities.

[SAR](#)

[Submit Nominations](#)

Action

End Date

**Drafting Team
Nominations**

**11/21/24-
12/20/24**

STANDARD:
TPL-008-1

Project 2023-07 Transmission Planning Performance Requirements for Extreme Weather

PROJECT BACKGROUND:

Background

FERC directed NERC (Order No. 896) to develop modifications to Reliability Standard TPL-001-5.1 or a new Reliability Standard, to require the following:

- (1) development of benchmark planning cases based on major prior extreme heat and cold weather events and/or meteorological projections;
- (2) planning for extreme heat and cold weather events using steady state and transient stability analyses expanded to cover a range of extreme weather scenarios including the expected resource mix's availability during extreme heat and cold weather conditions, and including the wide-area impacts of extreme heat and cold weather; and
- (3) development of corrective action plans that mitigate any instances where performance requirements for extreme heat and cold weather events are not met.

[TPL-008-01](#)

[Implementation Plan](#)

Action

End Date

Final Ballot

12/6/2024

IBR Registration Resources for New Registrants

Over the past six years, system events have demonstrated that inverter-based resources (IBR) are having a major impact on generation, transmission, and distribution systems. These resources play a critical role in the transition to a more resilient and sustainable future energy landscape, but their unique characteristics present new challenges for grid reliability and stability. As part of its [IBR Strategy](#), NERC is dedicated to identifying and addressing challenges associated with IBRs, sharing risk mitigation techniques with industry, and providing best practices and education.

The [IBR Registration Initiative](#) is one way NERC addresses these challenges. This initiative, [directed by the Federal Energy Regulatory Commission \(FERC\)](#) in 2022 and [launched in 2023](#), seeks to identify and register owners and operators of currently unregistered bulk power system-connected IBRs, thereby closing the reliability gap in which 16% of IBR owners and operators that are connected to the bulk power system are not yet required to register with NERC or adhere to its Reliability Standards.

NERC recognizes the critical importance of ensuring that identified entities are integrated smoothly and are educated on the scope and role of the ERO Enterprise. To that end, NERC has developed new resources to provide support and education on IBRs, the IBR Registration Initiative, and the ERO Enterprise model.

[Full Announcement](#) | [NERC, E-ISAC, and IBR Registration 101](#) | [Ensuring Grid Reliability—the Inverter-Based Resource Registration Initiative \(video\)](#) | [Open Letter to New Registrants](#)

Save the Date – Industry Engagement Workshop

➤ Reliable IBR Integration and Milestone 3 of FERC Order No. 901

Day 1 | IBR Integration, NERC Engineering

January 15, 2025 | 8:30 a.m. - 4:30 p.m. Mountain

Day 2 | Milestone 3, NERC Standards

January 16, 2025 | 8:30 a.m. - 4:30 p.m. Mountain

In-Person Attendance:

Location: Phoenix, Arizona - Hotel to be Announced

Virtual Attendance: [Webinar Registration](#)

[Interregional Transfer Capability Study Filed with FERC](#)

NERC has filed the congressionally directed *Interregional Transfer Capability Study* (ITCS) with the Federal Energy Regulatory Commission (FERC) on November 18, 2024, in advance of the December 2 deadline. The ITCS is a unique assessment of North American transmission transfer capability using, for the first time, a common approach with consistent assumptions to identify locations where technically prudent additions will strengthen and improve grid reliability. The ITCS is the culmination of 18 months of extensive outreach and collaboration between NERC, the Regional Entities, transmitting utilities, state/provincial/federal regulators, and industry trade groups across North America. The filing will be followed by a FERC comment period.

Industry Webinar

➤ NERC [2024-2025 Winter Reliability Assessment](#)

➤ December 4, 2024

3:00 p.m. – 4:00 p.m. Eastern

[Registration](#)

ReliabilityFirst (RF)

➤ Technical Talks with RF

- | | |
|---------------------|-----------------------|
| ➤ December 16, 2024 | 2:00 p.m. – 3:30 p.m. |
| ➤ January 13, 2025 | 2:00 p.m. – 3:30 p.m. |
| ➤ February 10, 2025 | 2:00 p.m. – 3:30 p.m. |
| ➤ March 17, 2025 | 2:00 p.m. – 3:30 p.m. |
| ➤ April 21, 2025 | 2:00 p.m. – 3:30 p.m. |
| ➤ May 19, 2025 | 2:00 p.m. – 3:30 p.m. |
| ➤ June 16, 2025 | 2:00 p.m. – 3:30 p.m. |

<https://www.rfirst.org/events/list/>

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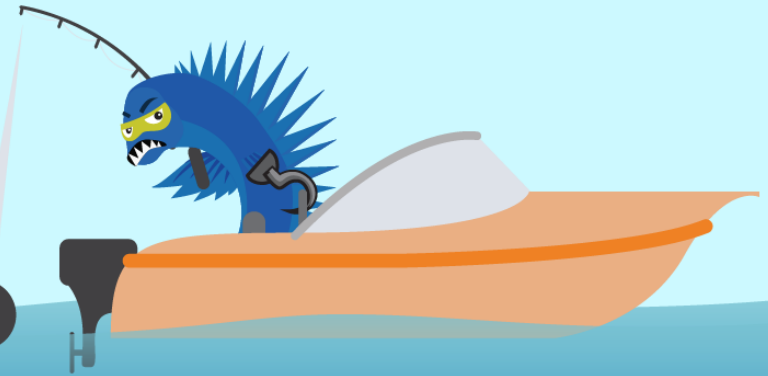
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