

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

FERC 901 Milestone 3

An Overview

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ESIG March Meeting

March 18, 2025

- NERC facilitates the Standards Development process
- The Drafting Team develops specifics
- A strong Reliability Standard:
 - Identifies responsible entity(ies) - WHO
 - Specifies objectives – WHAT
 - Specifies a periodicity – WHEN
- A strong Reliability Standard does not specify the HOW
 - Entity facts & circumstances must be considered
 - Entities have flexibility in meeting objectives

NERC is currently in **Phase 2** of the registration milestones identified in the FERC-approved work plan.

Phase 1: May 2023–May 2024

- Complete Rules of Procedure revisions and approvals
- Commence Category 2 GO and GOP candidate outreach and education (e.g., through trade organizations)

Phase 2: May 2024–May 2025

- Complete identification of Category 2 GO and GOP candidates
- Continue Category 2 GO and GOP candidate outreach and education (e.g., quarterly updates, webinars, workshops, etc.)

Phase 3: May 2025–May 2026

- Complete registration of Category 2 GO and GOP candidates thereafter subject to applicable NERC Reliability Standards
- Conduct specific Category 2 GO and GOP outreach and education (e.g., quarterly updates, webinars, workshops, etc.)

- FERC Order 901
 - October 2023
 - 4 Milestones through November 2026
 - IBR related performance issues
 - Leverage existing guidance where possible





STANDARDS MILESTONES: ORDER 901

1

**COMPLETED
JANUARY
2024**

Order No. 901 Work Plan
submission

2

**DUE
NOVEMBER 4,
2024**

Standards development and filing to
address performance requirements
and post-performance validations for
Registered IBRs

3

**DUE
NOVEMBER 4,
2025**

Development and filing of Reliability
Standards to address data sharing
and model validation for all IBRs

4

**DUE
NOVEMBER 4,
2026**

Development and filing of Reliability
Standards to address use of
performance data in Operational and
Planning studies

New PRC-028

Installation of
disturbance
monitoring
equipment

Share data on
request

New PRC-029

Performance based
ride-through criteria

Capability based
ride-through criteria

New PRC-030

Analysis of
performance during
a disturbance

Triggers what is
evaluated for ride-
through
performance

Uniform Model Framework for IBR (Project 2022-02)



Establish the usage of accurate models for IBRs



Establish uniform model framework for data sharing
and model development

Verifications of Models and Data for Generators (Project 2020-06)



Define Terms: Model Verification and
Model Validation



Develop model validation process with
performance data

System Model Validation with IBRs (Project 2021-01)



Align model verification and validation against actual system operation



Develop criteria for validation and process to communicate model defects

EMT Modeling (*not Milestone 3*)
(Project 2022-04)



Establish EMT studies for IBR during Interconnection



Align with other Milestone 3 projects for model development

Operational Studies

- SAR in development
- Anticipated start in Q1

Planning Studies

- SAR in development
- Anticipated start in Q1



Questions and Answers