**Texas RE NERC Standards Review Forum (NSRF)**

**Thursday, August 21st, 2025**

**9:00am**

**Meeting Type**: Remote

**Location**: WebEx

**Details:** [Texas RE Event Calendar](https://www.texasre.org/pages/calendar/events/2025/august/nsrfmeeting)

**Meeting Link**: [WebEx](https://texasre.webex.com/texasre/j.php?MTID=m46be9def8a53557cfbe1f8c41fccdbfc)

**Dial-in**: 1-855-797-9485

**Meeting Number**: 2553 262 8119

**Password**: umDFpcEY384

# **Open Session Agenda**

## Texas RE Antitrust Admonition – Rachel Coyne

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Notice of this meeting was posted on the Texas RE website and the open portion of this meeting is being held in public. Participants should keep in mind that the listening audience may include members of the press, representatives from various governmental authorities, and industry stakeholders.

## Texas RE Standards Report – Rachel Coyne

### Upcoming enforceable standards and requirements

### Texas RE Standards Project Tracking Document

### SAR-013/BAL-001-TRE Project Update – Planning for September to take to the MRC

## Texas RE Q&A – Rachel Coyne

1. **Texas RE – Chief Engineer Report -** *Mark Henry*

## Project Updates – Chris Seaman

### NERC LLTF Update (hold)

### Draft 2026-2028 Reliability Standards Development Plan - Posted for Comments *9/5/25*

### Industry webinar material available for review Project 2020-06 – Verifications of Models and Data for Generators. [link](https://www.nerc.com/pa/Stand/WebinarLibrary/2020-06%20Industry%20Webinar%20-%20August%206,%202025.pdf)

### See [Appendix A](#_Appendix_A_Project) for details.

## Other Topics – Chris Seaman

### Recent NERC/FERC Filings

* [RM25-3-000 Order Approving IBR Ride-through Standards](https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20250724-3084&optimized=false&sid=c6b2790f-4973-4937-b848-8df3edc518ed)
* [RD22-4-001 IBR Work Plan Filing August 2025 Update](https://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/IBR%20Work%20Plan%20Filing_August%202025%20Update_signed.pdf)
* [RR25-1-000 ROP Appendix 4E Compliance Filing](https://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/July%202025%20Appx%204E%20Compliance%20Filing%20-%20CCCPP%20Revisions_signed.pdf)
* RM24-7-002 [Request for Clarification of Order 907​](https://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/INSM%20Clarification%20July%2025%202025_digicert.pdf)
* RM24-7-000 ​Order Approving Reliability Standard CIP-015-1​
* ​RM20-12-000 ​Potential Enhancements to the CIP Reliability Standards​ (Withdrawn)

### Future Items for Discussion & Other Business

### Breakfast sponsors – Done, Thank you!

### Future meeting locations

### NSRF Leadership

## Scheduled Meeting Dates – Chris Seaman

(meetings are typically held on the 4th Thursday of each month except as noted; no meeting is held in December):

* [January 23, 2025](https://texasre.org/pages/calendar/events/2025/january/nsrfmeeting)
* February 20, 2025 (Hybrid) Breakfast Tacos – Rayburn EC
* March 27, 2025
* April 17, 2025
* May 15, 2025 (Hybrid) Breakfast Tacos - PEC
* June 26, 2025
* July 24, 2025
* August 21, 2025
* September 18, 2025 (Hybrid at Rayburn EC in Rockwall, TX) Breakfast Tacos - ERCOT
* October 23, 2025
* November 20, 2025 (Hybrid) Breakfast Tacos - CPS

# **Appendix A: Project Updates Detail**

Below projects include Reliability Standards Under Development and include updates from NERC committees and Standard Drafting Team members. For archived information on projects including background and balloting results see [Texas REs NERC Standards Projects Tracking](#_Texas_RE_Standards) (Agenda item 2b)

**Recent Project Updates are noted under “Recent Notes or Actions”**

Additional helpful references:

* [Project Tracking Spreadsheet](https://www.nerc.com/comm/SC/Project%20Management%20and%20Oversight%20Subcommittee%20DL/Project%20Tracking%20Spreadsheet.xlsx)
* [Project Posting Schedule](https://www.nerc.com/pa/Stand/Documents/Projected_Posting_Schedule.pdf)
* [Standards, Compliance, and Enforcement Bulletin](https://www.nerc.com/pa/Stand/news/Pages/default.aspx)

# **High Priority Projects**

## [2020-06 Verifications of Models and Data for Generators](https://www.nerc.com/pa/Stand/Pages/Project-2020_06-Verifications-of-Models-and-Data-for-Generators.aspx)

**(Only IBR Definitions are High Priority) (ERCOT - Jonathan Rose)**

– ***expected to finish in 2025 or beyond.***

### Background

The NERC Inverter-based Resource (IBR) Performance Task Force (IRPTF) undertook an effort to perform a comprehensive review of all NERC Reliability Standards to determine if there were any potential gaps or improvements. The IRPTF identified several issues as part of this effort and documented its findings and recommendations in the “IRPTF Review of NERC Reliability Standards White Paper," which was approved in March 2020 by the Operating Committee and the Planning Committee (now part of the Reliability and Security Technical Committee (RSTC)). Among the findings noted in the white paper, the IRPTF identified issues with MOD-026-1 and MOD-027-1 that should be addressed. The RSTC endorsed the SAR on June 10, 2020.

Consistent with the IRPTF recommendations, the scope of the proposed SAR includes revisions to NERC Reliability Standards MOD-026-1 and MOD-027-1. Standards MOD-026-1 and MOD-027- 1 require, among other things, Generator Owners to provide verified dynamic models to their Transmission Planner for the purposes of power system planning studies. Both standards contain language that is specific to synchronous generators that is not applicable to IBRs. The IRPTF recommended revisions to clarify the applicable requirements for synchronous generators and IBRs. As such, the SAR proposes revisions to MOD-026-1 and MOD-027-1 to clarify requirements related to IBRs and to require sufficient model verification to ensure accurate generator representation in dynamic simulations. The Standards Committee accepted the SAR and authorized posting at its September 24, 2020 meeting.

Standard(s) Affected – MOD-026-1 Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions | MOD-027-1 Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions

### Previous Notes or Actions

* 7/21/21 SC: The SC accepted the Project SAR requests; authorized drafting revisions to the Reliability Standards identified in the SARs; and appointed the Project SAR Drafting team as the Standard Drafting Team.
* There will be active coordination with projects **2020-02** and **2021-01**.
* The SDT is holding meetings to discuss revisions to MOD-026/MOD-027.
* 2/16/22 SC: Ballot scheduled for March.
* 5/18/22 SC: Authorize initial posting of proposed Reliability Standard MOD-026-2 and the associated Implementation Plan for a 45-day formal comment period (through 7/6/22), with ballot pool formed in the first 30 days (through 6/21/22), and parallel initial ballot and non-binding poll for the Violation Risk Factors and Violation Severity Levels, conducted during the last 10 days of the comment period (through 7/6/22).
* 1/18//2023 Ballot failed with 26.05% in favor
* 06/07/2023 – 07/21/2023 MOD-026-2 Comment Period
* 07/12/2023 – 07/21/2023 MOD-026-2 Additional Ballot and non-binding poll
* Ballot Results MOD-026-2 – Failed 43.85%
* SDT is addressing comments of common issues of the voting body members. SDT is also considering adding more flexibility to the language to address some of the main concerns.
* SDT plans to post updated language soon that should gain more approval. SDT received good and constructive feedback from the members that is helping the SDT efforts to address industry concerns.
* 9/18/2023 – 10/24/2023 Comment Period Open.
* Two new proposed definitions
  + Power Electronic Device (PED)
  + Inverter Based Resource (IBR)
* 1/9/2024: Formal comment period and ballots concluded for the IBR definitions
  + - Inverter-Based Resource (IBR) failed at 43.82%
    - IBR Unit failed at 45.04%
    - IBR-related Definitions implementation Plan failed at 58.52%
  + **SDT Notes**: IBR Definitions Comment period open 02/22 – 4/8/24 and Additional Ballots 3/29 – 4/8/24
  + **SDT Notes**: Industry Webinar, Update on Projects Related to FERC Order No. 901 [Register](https://urldefense.com/v3/__https:/nerc.webex.com/weblink/register/r78b790ce6043db65cb3c8ae225d62526__;!!DR3VkBMYqM1H!bsaxvBd_fB6FQ4_EVKaXXQNiQqSiR5bOe85QhWQJdiWbXwpsHAsIcMxUbEtzN28Z5DW9HkYFZ13uW8Odbbo3qmfYQ20$). March 28, 2024, at 1:00 – 4:00pm.
  + 4/11/2024: Formal comment period and additional ballots concluded for the IBR definitions
  + Inverter-Based Resource (IBR) passed. Quorum 83.33% / Approval 67.55%
  + IBR Unit failed. Quorum 83.27% / Approval 61.07%
  + IBR-related Definitions Implementation Plan passed. Quorum 83.21% / Approval 70.04%.
    - **SC Note**: ***5/23 - 6/26/24*,** Supplemental [drafting team member nomination](https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_DT_Nomination_Solicitation_Word_Announcement_05232024.pdf)
    - **SC Notes**: Formal comment period for SAR: [Federal Energy Regulatory Commission (FERC) Order No. 901 – Milestone 3, Part 2: IBR Model Validation](https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_IBR_Model_Validation_SAR_05232024.pdf) **May 23 – June 26, 2024**
    - **SDT Notes: *7/10/24*,** Industry Webinar for FERC Order No. 901 Milestone 3 (Cancelled)
    - **SDT Note**: ***7/12 – 8/12/24***, Draft 3 IBR Glossary Term formal comment period with additional ballots conducted ***8/2 – 8/12/24***.
    - Draft 3 comment period, additional ballots and non-binding polls concluded August 12, 2024: (Quorum/Approval)
    - IBR Definition: 85.46% / 91.57%
    - Implementation Plan: 85% / 92.45%
    - **SDT Notes:** Final ballot open between ***9/3 –*** ***9/12/24***
    - **SC Notes**: Approved additional SDT members.
    - **Final Ballot Results:** (Quorum / Approval)
    - IBR Definition: 90.07% / 92.82%
    - IP: 89.64% / 93.66%
  + Order 901 SAR M3-P2
    - NERC Filing requesting FERC approval of IBR definition – 11/4/24
    - 11/13/24 – SC Approved SAR for standard drafting
    - Next action: Technical Conference January 15-16, 2025 ([link](https://www.nerc.com/pa/RAPA/Lists/RAPA/DispForm.aspx?ID=726))
    - Waivers to SC 2/19/25
    - Formal comment period and initial ballot begins week of 2/17/25
    - Supplemental Drafting Team Nominations – 3/20/25 – 4/18/25
    - A formal comment period for the initial draft of Model Validation and Model Verification Definitions related to the Glossary Terms is open through 5/12/25
    - Initial ballots for the Modeling Definitions and Implementation Plan will be conducted 5/2 – 5/12/25
    - Initial draft ballots for MOD-026-2 and Implementation Plan closed on 6/18/25
    - Initial ballots for the Modeling Definitions and Implementation Plan passed, awaiting FERC filing

### Recent Notes or Actions

* + - Final ballots for the Modeling Definitions and Implementation Plan passed
    - Drafting Team revising MOD-026-2 draft after the previous revision did not pass last month

## [2021-01 System Model Validation with IBRs](https://www.nerc.com/pa/Stand/Pages/Project_2021-01_Modifications_to_MOD-025_and_PRC-019.aspx)

*expected to finish in 2025 or beyond.*

### Background

The PPMVTF developed this SAR to revise MOD-025-2 to address issues regarding verification and data reporting of generator active and reactive power capability. As stated in the SAR, implementation of the standard has rarely produced data that is suitable for planning models (i.e., the stated purpose of the standard). The current MOD-025-2 verification testing activities require significant time, expertise, and coordination; however, they do not result in data that should be used by planners for modeling purposes. The SAR aims to retain testing activities are useful and focus on more effective means of collecting useful data for planning models. The Reliability, Security, and Technology Committee (RSTC) endorsed the SAR on October 19, 2020.

PRC-019-2 addresses the reliability issue of miscoordination between generator capability, control systems, and protection functions. However, PRC-019-2 was developed with a bias toward synchronous generation and does not sufficiently outline the requirements for all generation resource types. The proposed Standard Authorization Request (SAR) aims to address a number of issues identified by the SPCS and revise the standard to be inclusive of all types of generation resources. The SAR was endorsed by the NERC Planning Committee (PC) on March 4, 2020.

The MOD-025-2 and PRC-019-2 SARs were accepted and authorized for informal posting at the January 20, 2021 SC meeting.

The appointed SAR DT will also determine how to addresses the applicable scope of Project 2020-02 Transmission-connected Dynamic Reactive Resources, which also seeks to modify MOD-025-2 and PRC-019-2. See Project 2020-02 Transmission-connected Dynamic Reactive Resources for additional background.

Standard(s) Affected – MOD-025-2 Verification and Data Reporting of Generator Real and Reactive | PRC-019-2 Coordination of Generating Unit or Plant Capabilities, Voltage

### Past Notes or Actions

* The SAR DT was appointed at the July 21, 2021. SC meeting.
* From August to November 2021 the SAR DT reviewed and responded to industry comments and revised the MOD-025 and PRC-019 SARs.
* SAR DT will seek SC endorsement of the revised SARs and authorization to revise the Standards at the December 2021 SC meeting.
* There will be active coordination with projects **2020-02** and **2020-06**.
* 12/15/21 SC: SAR DT was appointed as the Standard DT.
* A 45-day comment period is open through 11/16/22, and initial ballots for the standards and implementation plans, as well as non-binding polls for the VRFs and VSLs will be conducted 11/4/22-11/16/22.
* 11/17/2022 Ballots Failed 30.43% and 41.51%
* 04/25/2023 – 06/08/2023 Comment Period
* 05/30/2023 – 06/08/2023 Balloting Period
* MOD-025 failed with 36.05%
* PRC-019 failed with 46.73%
  + **SAR**: Federal Energy Regulatory Commission (FERC) Order No. 901 – Milestone 3, Part 3: [IBR Modeling Revision SAR](https://www.nerc.com/pa/Stand/Project202101_Modifications_to_MOD025_and_PRC019DL/2021-01_IBR_Modeling_Revision_SAR_05232024.pdf), Formal Comment Period from May 23 – June 28, 2024
  + **Industry Webinar**: FERC Order No. 901 Milestone 3 (Cancelled).
  + **SC Notes**: Moved to a High Priority Project.
  + SAR formal commenting closed on June 28, 2024. SDT is reviewing comments.
  + Nomination for additional SDT members through ***9/13***.
  + Order 901 SAR M3-P3
  + Supplemental drafting team nominations through 12/20/24
  + Initial ballots for implementation plan and non-binding poll of the associated Violation Risk Factors and Violation Severity Levels 5/12/25 **-** 5/21/25
  + Comment period for draft one of MOD-033-3 open through 5/21/25
  + MOD-033-3 86.81% / 57.06%
  + Implementation Plan 86.57% / 59.43%
  + Drafting team reviewing ballot results and comments

### Recent Notes or Actions

* + MOD-033-3 Draft 2 will post for ballot 8/28/25
  + Comment period open from 8/8/25 to 9/10/25

## [2022-02 Uniform Modeling Framework for IBR](https://www.nerc.com/pa/Stand/Pages/Project2022-02ModificationstoTPL-001-5-1andMOD-032-1.aspx)

**(John Schmall) –** *Phase I expected to finish November 4, 2025. Phase II beyond 2025.*

### Background

While the current Standard Drafting Team (SDT) of Project 2022-02 is working on the project, a new SAR related to TPL-001-5.1 was approved for posting by the Standards Committee (SC). The SC asked the current SDT to include this SAR as part of the project rather than creating a new project. The new SAR will address Footnote 13d issue in Standard TPL-001-5.1.​

​​​​Many areas of the North American bulk power system (BPS) continue to experience an increase in BPS-connected inverter-based resources (e.g., wind, solar photovoltaic (PV), battery energy storage systems (BESS), and hybrid power plants). NERC Reliability Standard TPL-001-5.1 is a foundational standard used for “establishing transmission system performance requirements within the planning horizon to develop a bulk electric system (BES) that will operate reliably over a broad spectrum of system conditions and following a wide range of probable contingencies." Transmission Planners (TPs) and Planning Coordinators (PCs) develop and use models of the electrical grid to perform planning assessments (e.g., steady-state, dynamic, and short-circuit) to develop corrective action plans for future reliability issues identified. Ensuring that the TPL-001 standard is reflective of the evolving nature of the BPS and its resource mix is paramount to ensuring reliable operation and resilience of the BPS moving forward.

The NERC Inverter-Based Resource Performance Task Force (IRPTF)[1] undertook a complete review of the NERC Reliability Standards in the context of increasing levels of BPS-connected inverter-based resources and published a white paper on the outcomes and recommendations of this review in March 2020.[2]

Based on the outcome of the review, it was determined that the TPL-001-4/5[3] needed clarifications “to address terminology throughout the standard that is unclear with regards to inverter-based resources" the next time the standard is revised.

Considering current trends, the NERC SPIDERWG undertook a review of the TPL-001 standard considering the potential impact of distributed energy resources (DERs). This review is captured in the following RSTC-approved white paper and serves as the technical justification for the revisions suggested in this SAR:

SPIDERWG: Assessment of DER impacts on NERC Reliability Standard TPL-001 (here)

This SAR proposes to update TPL-001-5.1 to address some of the issues identified in the white paper.

TPL-001-5.1 does not currently require Planning Coordinators and Transmission Planners to complete Planning Assessments with adequate representation of the dynamic behavior of DERs. As the penetration of DERs increases, and based on the DER data and models available, Planning Assessments should include DERs that can potentially impact Transmission System performance assessment. NERC's “Lesson Learned: Single Phase Fault Precipitates Loss of Generation and Load", evaluating a 2019 frequency event in Southern England exacerbated by the unexpected reduction of 725 MW of IBR output and the unexpected loss of 350 MW of DER, highlights the critical importance of accurate Transmission System Planning Assessments. In July 2020, a significant quantity of solar PV facilities across a large geographic area in Southern CA reduced about 1000 MW output due to a disturbance on the bulk power system. Subsequent event analysis revealed that it was the consequence of momentary cessation and slow recovery of power. Standards enhancement has been one of the recommendations after the event analysis to ensure reliable operation of the bulk power system.

As the penetration of DERs continues to increase across the North American bulk power system (BPS), it is necessary to account for the potential impacts of DERs on reliability in the planning, operation, and design of the BES. The NERC System Planning Impacts of Distributed Energy Resources Working Group (SPIDERWG) has identified the need for improved modeling of aggregate DER for planning studies (including both utility-scale and retail-scale DER) conducted by Transmission Planners (TPs) and Planning Coordinators (PCs). MOD-032-1 addresses the gathering of modeling data to perform planning assessments but the standard currently has no specific reference to DER data. This SAR proposes to update MOD-032-1 to: (1) include “data requirements and reporting procedures"[4] for DER that are necessary to support the development of accurate interconnection-wide models, (2) replace Load-Serving Entity (LSE) with Distribution Provider (DP) because of the removal of LSEs from the NERC registry criteria, and (3) enable the SDT to review any additional gaps in DER data collection with the de-registration of LSE.

Standard(s) Affected: TPL-001-5.1 and MOD-032-1

### Previous Notes or Actions

* SC is expected to appoint DT members in 4/2022. ERCOT plans to nominate a candidate.
* 4/20/22 SC: SC appointed chair, vice chair and members of SAR DT.
* 9/21/22 SC: Approved the following:
  + Accept the Project 2022-02 Modifications to TPL-001 and MOD-032 Standard Authorization Requests (SARs);
  + Authorize drafting revisions to the Reliability Standards identified in the SARs; and
  + Appoint the Project 2022-02 SARs Drafting Team (DT) as the Project 2022-02 Standard Drafting Team (SDT).
  + TPL-001-5.1 Footnote 13.d SAR Comment Period Open 4/13/2023 thru 5/12/2023
* 4/19/2023
  + - * 1. The SDT will complete MOD-032 modifications as phase 1 and TPL-001 modifications as phase 2 (I think I covered this in the last update).
        2. The SDT considered the QR team feedback and made a few minor clarity/formatting edits to the proposed MOD-032 modifications.
        3. Assuming SC approval at their May meeting:

The MOD-032 modifications would be posted for industry comment and initial ballot.

An industry webinar would be scheduled (likely sometime in June, but no firm date set).

The SDT would meet to review/consider industry comments (likely in late July, but again no firm dates are set yet).

* 4/13/2023 thru 5/12/2023TPL-001-5.1 Footnote 13.d SAR Comment Period
* 05/31/2023 – 06/29/2023 MOD-032-1 Join Ballot Pools
* 05/31/2023 – 07/14/2023 MOD-032-1 Comment Period Open
* 07/05/2023 – 07/14/2023 MOD-032-1 Initial Ballots and Non-binding Polls
* 07/14/2023 – Initial Ballot Failed 41.82%
* The SDT is working on responding to industry comments. The most significant issue was around placing a compliance obligation on TOs to provide data from unregistered entities without a compliance obligation to provide it. The SDT is attempting to ease those requirements in the second draft. The solution to address data gaps may rely on NERC entity registration and NERC jurisdiction, that is likely beyond the scope of the project.
* 10/06/2023 – 11/20/2023 Open for Comments MOD-032-2 and Implementation Plan
* 11/10/2023 – 11-20-2023 Balloting Opens
* 11/20/23: Additional Ballots closed
  + MOD-032-2 failed at 39.52%
  + Implementation Plan Failed at 48.24%
  + SDT Chair: John Schmall to give project update and promote informal feedback from entities regarding direction the SDT is going in the near future.
  + **SC Notes**: Moved to High Priority Project.
  + ***5/17 – 6/24/24***, Supplemental Drafting Team Nomination
  + **SAR**: ***5/17 – 6/24/24*** comment period, [Federal Energy Regulatory Commission (FERC) Order No. 901 – Milestone 3, Part 1: Modeling and Data Sharing Requirements](https://www.nerc.com/pa/Stand/Project202202ModificationstoTPL00151andMOD0321DL/2022-02_SAR_Modeling_and_Data_Sharing_Requirements_05172024.pdf) SAR
  + **Industry Webinar**: FERC Order No. 901 Milestone 3 (Cancelled)
  + **SC Notes:** Approved additional members of SDT.
  + **SDT Notes:** Draft 3 Comment Period open between ***8/27 – 10/10/24*** and Additional Ballots open between ***10/1 – 10/10/24***. This Draft 3 does not include SAR Order 901 – Milestone 3, Part 1: Modeling and Data Sharing Requirements.
  + **SDT Notes**: Formal comment period and additional ballots of draft 3 closed on *10/10/24*.
  + **SDT Notes**: Industry webinar took place on *9/20/24*.
  + [Slide Presentation](https://urldefense.com/v3/__https:/www.nerc.com/pa/Stand/WebinarLibrary/2022-02*20Webinar_092024.pdf__;JQ!!DR3VkBMYqM1H!Z5dAvPypDAKsaWNVTaKouQ0yANijh5ggXm0h4TK3A0jcftaK9Yf7YjOw2K006GLU7cU7fSf-UcJxJdehpE70REDBPns$)
  + [Recording](https://urldefense.com/v3/__https:/nerc.webex.com/webappng/sites/nerc/recording/becbcd3e599f103db7bf2a7882cd0517/playback__;!!DR3VkBMYqM1H!Z5dAvPypDAKsaWNVTaKouQ0yANijh5ggXm0h4TK3A0jcftaK9Yf7YjOw2K006GLU7cU7fSf-UcJxJdehpE70UVKe3JU$)
  + **Ballot Results**: (Quorum / Approval)
  + MOD-032-2: 84.93% / 41.90%
  + IP: 83.79% / 45.81%
  + FERC 901 M3-P1 SAR accepted by SC 11/13/24
  + Formal comment period open through 5/16/25 for: MOD-032-2, IRO-010-6, TOP-003-8, and Implementation Plans
  + Initial ballots for the Standards and Implementation Plan, along with non-binding polls for each associated Violation Risk Factors and Violation Severity Levels open 5/7/25 –5/16/25
  + Ballot team reviewing results:
  + MOD-032-2 Ballot 87.86% / 39.05% Non-Binding Poll 88.46% / 39.6%
  + IRO-010-6 Ballot 87.54% / 41.62% Non-Binding Poll 87.36% / 49.74%
  + TOP-003-8 Ballot 87.90% / 34.70% Non-Binding 87.69% / 41.75%
  + Implementation Plan Ballot 88.00% / 39.46%

### Recent Notes and Actions

* + Formal comment period open through 8 p.m. Eastern, 9/10/25 for the following standards and implementation plan:
  + MOD-032-2 – Data for Power System Modeling and Analysis
  + IRO-010-6 – Reliability Coordinator Data and information Specification and Collection
  + TOP-003-8 – Transmission Operator and Balancing Authority Data and Information Specification and Collection
  + Implementation Plan
  + Ballots and non-binding polls for the above open on 8/28/25

## [2023-06 CIP-014 Risk Assessment Refinement](https://www.nerc.com/pa/Stand/Pages/Project_2023-06_CIP-014_Risk_Assessment_Refinement.aspx)

*expected to finish in 2024.*

### Background

Due to an increase in reports of physical attacks on electric substations, the Federal Energy Regulatory Commission (FERC) issued the December 2022 Order in Docket No. RD23-2-000 directing NERC to evaluate the effectiveness of the Physical Security Reliability Standard CIP-014-3 in mitigating the risks to the Bulk-Power System (BPS) associated with physical attacks. In the [report](https://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/NERC%20Report%20on%20CIP-014-3.pdf) filed in response to a FERC directive, NERC staff identified continuing inconsistency in registered entity CIP-014-3 risk assessments to most appropriately identify critical infrastructure. FERC directed NERC to evaluate whether the physical security protection requirements in NERC's Reliability Standards are adequate to address the risks associated with physical attacks on BPS Facilities, including the adequacy of the required risk assessment in CIP-014-3 Requirement R1. In the [report](https://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/NERC%20Report%20on%20CIP-014-3.pdf), NERC found that CIP-014-3 required revision to assure adequate and consistent approach in evaluating instability as well as the identification of infrastructure critical to the operation of the BPS.

​This project is identified as a NERC Board of Trustees priority work plan item and expected to be submitted to the board by the end of 2024.

### Previous Notes or Actions

* 07/26/2023 – 08/24/2023 Nomination Period
* 07/26/2023 – 08/24/2023 SAR Posted for Comments
* 10/18/2023 Standards Committee Approved the appointment of Standard Drafting Team members, Chair and Vice Chair
* ***5/20 – 7/3/24***, formal Comment Period with initial ballots conducted ***6/24 – 7/3/24***.
* **Industry Webinar*: 6/7/24***,[Slide Presentation](https://urldefense.com/v3/__https:/www.nerc.com/pa/Stand/WebinarLibrary/2023-06*20CIP-014-4*20Industry*20Webinar*2006072024.pdf__;JSUlJQ!!DR3VkBMYqM1H!Y001k-5tVDLKBUdp-8iUUdo4opGfCncFnbJeCPwJ-XLG8XGk_0mFt8I4Rw9o7yoXpZri5HlRbykQ10MwOyq_Wv7Sphc$) and [Recording](https://urldefense.com/v3/__https:/nerc.webex.com/webappng/sites/nerc/recording/8ee84f15071d103dbbff00505681394d/playback__;!!DR3VkBMYqM1H!Y001k-5tVDLKBUdp-8iUUdo4opGfCncFnbJeCPwJ-XLG8XGk_0mFt8I4Rw9o7yoXpZri5HlRbykQ10MwOyq_TXQMbJw$).
* **SDT Note:** Ballot and committing closed on ***7/3/24***: (Quorum / Approval)
* **CIP-014-4**: 84.69% / 11.67%
* **CIP-014-4 IP**: 83.68% / 27.14%
* **SC Note:** SDT is anticipating posting again the week of ***8/12/24***.
* **SC Notes:** SDT anticipating posting comment period and additional ballots week of 8/19/24.
* Formal Comment period open between *9/23-11/6/24* and additional ballots open between *10/28-11/6/24*.
* Industry Webinar scheduled for *10/17/24*.
* **Ballot Results:** (Quorum / Approval)
* **CIP-014-4**: 89.46% / 47.34%
* **CIP-014-4 IP**: 88.9% / 56.18%

### Recent Notes or Actions

* A 45-day formal comment period for draft three of**CIP-014-4** is open through**7/1/2025**.
* Additional ballots for the standard and implementation plan, as well as a non-binding poll of the associated Violation Risk Factors and Violation Severity Levels will be conducted **7/11 – 7/21/2025**.
* Update on Ballot Results – Did not pass

## [2024-01 Rules of Procedure Definitions Alignment (Generator Owner and Generator Operator)​](https://www.nerc.com/pa/Stand/Pages/Project-2024-01-Rules-of-Procedure-Definitions-Alignment_GO-and-GOP.aspx)

*expected to finish in 2024.*

### Background

The project will address concerns regarding the reliability impacts of inverter-based resources (IBRs) on the Bulk-Power System that do not meet the current definition of Bulk Electric System (BES) and have not historically been required to be registered with NERC for compliance with the NERC Reliability Standards. Such concerns are discussed in detail in the Federal Energy Regulatory Commission (FERC) November 17, 2022 order in [Docket No. RD22-4-000](https://www.ferc.gov/media/e-1-rd22-4-000), in which FERC directed NERC to develop a work plan to address the registration of these IBRs and ensure their compliance with Reliability Standards by certain milestone dates. *See* *Registration of Inverter-Based Resources*, 181 FERC ¶ 61,124 (Nov. 17, 2022).

In March 2024, NERC proposed changes to its Rules of Procedure registry criteria to include certain non-BES IBRs in the Generator Owner (GOs) and Generator Operator (GOP) categories. Revising the GO and GOP definitions in the NERC Glossary of Terms to match the registry criteria will ensure these previously unregistered IBRs will be subject to the NERC Reliability Standards and mitigate their impacts on the BPS.

### Previous Notes or Actions

* ***5/31 – 7/1/24***, Drafting Team Nominations.
* [Generator Owner and Generator Operator Definition Alignment SAR](https://www.nerc.com/pa/Stand/202401%20Rules%20of%20Procedure%20Definitions%20Alignment%20GO/2024-01%20GO-GOP%20Definition%20SAR_053124.pdf)
* Upon FERC approval of ROP revisions, the SAR: “Generator Owner and Generator Operator Definition Alignment” was opened for comment period between ***07/02/24 – 08/20/24***.
* SAR: “IBR Registration and Standards Applicability Glossary Update” was opened for comment period between ***08/13/24 – 09/11/24.***
* SDT members have been seated.
* SAR: “IBR Registration and Standards Applicability Glossary Update” comment period extended until ***9/16/2024***. Additional questions added to the comment form to encompass thorough feedback from industry.
* [https://www.nerc.com/pa/Stand/202401 Rules of Procedure Definitions Alignment GO/2024-01 GO-GOP Definition SAR\_053124.pdf](https://www.nerc.com/pa/Stand/202401%20Rules%20of%20Procedure%20Definitions%20Alignment%20GO/2024-01%20GO-GOP%20Definition%20SAR_053124.pdf)
* Draft 1: **Generator Owner and Generator Operator Glossary of Terms Definitions**

GO & GOP Definitions Cat 1/Cat 2

Initial Ballots (definitions and IP): 4/28/25 – 05/07/25

Join Ballot Pools: 3/24/25 – 04/22/25

Comment Period: 03/24/25 – 05/07/25

### Recent Notes or Actions

* Ballot Results **Generator Owner and Generator Operator Glossary of Terms Definitions**:
  + GO and GOP Definitions 89.89% / 86.48%
  + Implementation Plan 90.64% / 70.36%
  + Final Ballots Passed – 7/14/25, awaiting Board submission and filing
  + No change

## [2024-02 Planning Energy Assurance​](https://www.nerc.com/pa/Stand/Pages/Project-2024-02-Planning-Energy-Assurance.aspx)

### Background

The transition from coal and nuclear generation to wind, solar, natural gas (with and without oil back up), distributed energy resources, and hybrid (renewables plus energy storage) resources is creating a more complex scenario and highlighting the need for energy assurance. Installed generating capacity analysis alone is not sufficient to ensure a reliable supply of energy for the BES. The proliferation of intermittent renewable generation in the resource mix increases the importance of having precisely controllable resources with sufficient fuel available, ready to respond when needed. The increasing prevalence of distribution-level resources and flexible load programs also introduces added volatility into energy forecasts, further complicating energy reliability assessments.

### Previous Notes or Actions

* SDT members have been seated.
* **SC Notes**: Approved SDT candidates as recommended by NERC.
* [https://www.nerc.com/pa/Stand/202401 Rules of Procedure Definitions Alignment GO/2024-01 GO-GOP Definition SAR\_053124.pdf](https://www.nerc.com/pa/Stand/202401%20Rules%20of%20Procedure%20Definitions%20Alignment%20GO/2024-01%20GO-GOP%20Definition%20SAR_053124.pdf)

### Recent Notes or Actions

* No update

## [2024-03 Revisions to EOP-012-2​](https://www.nerc.com/pa/Stand/Pages/Project-2024-03-Revisions-to-EOP-012-2.aspx)

*expected to finish in 2025 (FERC Order deadline is 3/27/24),* [*Waiver*](https://www.nerc.com/pa/Stand/Project202403RevisionstoEOP0122DL/SAR%20Revisions%20to%20EOP-012-2%20-%20One%20Pager%2007172024.pdf)*.*

### Background

NERC developed the original version of the generator cold weather preparedness Reliability Standard, Reliability Standard EOP-012-1, in 2022 under Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination. The purpose of this project was to address standards-related recommendations from the Federal Energy Regulatory Commission (FERC)/NERC/Regional Entity staff review of operations during the February 2021 Winter Storm Uri event.

NERC developed Reliability Standard EOP-012-2 in 2023-2024 to address Commission directives from the [February 2023 order](https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20230216-3062&optimized=false) approving Reliability Standards EOP-012-1 and EOP-011-3. In the February 2023 Order, the Commission directed that NERC revise EOP-012-1 to clarify the applicability of the standard's requirements for generator cold weather preparedness, further define the circumstances under which a Generator Owner may declare that constraints preclude them from implementing one or more corrective actions to address freezing issues, and to shorten the implementation timeline so cold weather reliability risks would be addressed more quickly.

On June 27, 2024, FERC issued an [order](https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20240627-3032&optimized=false) approving Reliability Standard EOP-012-2. While finding Reliability Standard EOP-012-2 represented an improvement over the prior version and addressed many of its concerns, FERC found the standard requires further improvement to address certain concerns remaining from its February 2023 order. FERC therefore directed NERC to revise the standard in five areas and to submit a revised standard within nine (9) months of the date of the order, or by March 27, 2025.

### Previous Notes or Actions

* Drafting Team Nominations: Nomination Period 7/18/24 – 8/1/24
* SAR: “Revisions to EOP-012-2” comment period between 7/18/24 – 8/16/24
* SDT members have been seated.
* Comment period and initial ballot anticipated to be approved by SC and posted on ***10/16/2024.***
* **SDT Note**: Industry Webinar to be held on 10/24/24.
* **SC Note**: Approved initial posting of EOP-012-3 and IP for a 20-day formal comment period with ballot pools to form in first 10-days and initial ballots conducted the last 5-days.
* [https://www.nerc.com/pa/Stand/202401 Rules of Procedure Definitions Alignment GO/2024-01 GO-GOP Definition SAR\_053124.pdf](https://www.nerc.com/pa/Stand/202401%20Rules%20of%20Procedure%20Definitions%20Alignment%20GO/2024-01%20GO-GOP%20Definition%20SAR_053124.pdf)
* **Ballot Results: (Quorum / Approval)**
* **EOP-012-3:** 90.98% / 42.29%
* **EOP-012-3 IP**: 91.25% / 45.86%
* Technical Conference held on November 12 at the ERCOT MET.
* **Ballot Results: (Quorum / Approval)**
* **EOP-012-3:** 88.93% / 44.54%
* **EOP-012-3 IP**: 89.58% / 59.7%

### Recent Notes or Actions

* Resolution to adopt Rule 321 approved at NERC Board of Trustees Meeting– 1/10/25 ([link](https://www.nerc.com/gov/bot/Agenda%20highlights%20and%20Mintues%202013/Board%20of%20Trustees%20January%2010%202025%20Meeting%20Resolution%20Approved.pdf))
* Comment period open through 3/12/2025; no associated ballot.
* Comments available for review
* FERC accepted extension to 4/14/25
* FILED WITH FERC 4/10/25
* FERC is working through comments
* No updates

# **Medium Priority Projects Updates**

## [2022-04 EMT Modeling](https://www.nerc.com/pa/Stand/Pages/Project2022-04EMTModeling.aspx)

**(Ali Goharrizi) –** *expected to finish in 2025 or beyond.*

### Background

The bulk power system (BPS) in North America is undergoing a rapid transformation towards high penetrations of inverter‐based resources. Transmission Planners (TP) and Planning Coordinators (PC) are concerned about the lack of accurate modeling data and the need to perform electromagnetic transient (EMT) studies during the interconnection process and long‐term planning horizon. The growth of inverter technology has pushed conventional planning tools to their limits in many ways, and TPs and PCs are now faced with the need to conduct more detailed studies using EMT models for issues related to inverter-based resource integration issues.

This SAR proposes including EMT models and studies in planning-related NERC Standards to ensure reliable operation of the BPS moving forward.

Standard(s) Affected: FAC-002, MOD-032, and TPL-001

### Previous Notes or Actions

* 7/20/22 SC: Approved the following:
* Accept the Standard Authorization Request (SAR) that was endorsed by the Reliability and Security Technical Committee (RSTC) and is recommended by NERC staff: SAR to revise three existing NERC Reliability Standards (i.e., FAC-002, MOD-032, and TPL-001), submitted by the Inverter-Based Resources Performance Subcommittee (IRPS)
* Authorize posting of the SAR for a 30-day informal comment period
* Authorize solicitation of the SAR drafting team (DT) members
* 30-day SAR comment period until 9/13/22
* Once the SDT is formed they will work with the NERC EMT Task Force as revisions to standards are developed.
* Standards Committee review the SDT nominations. Of the 32 nominations, only 2 had drafting team experience. Standards Committee is looking for other candidates with some drafting team experience, however there is not too much expertise in the field of EMT Modeling.
* SAR revision is almost complete with consideration of comments received from industry, has a deadline of May 22, 2023, to be finalized and looking to make it in the SC agenda for meeting in June.
* Ongoing Webinars through July 13, 2023 – Registration links in [IBR Webinar Series Flyer](https://www.nerc.com/comm/RSTC/Documents/IBR_Webinar_Series_Fyler.pdf)
* SAR is being submitted to the July SC to accept revised SAR, appointing SAR DT and the SDT, and authorize drafting of revisions to Standards identified in SAR.
* 07/19/2023 – Standards Committee accepted SAR
* 08/11/2022 – 09/13/2022 nomination period for the SDT.
* 08/11/2022 – 09/13/2022 SAR Comment period
* **SC Notes**: Moved to a Medium Priority Project.
* **SC Notes:** Standards Committee accepted the revised SAR: “EMT Modeling” on 7/19/24.
  + SAR accepted by Standards Committee 11/13/24 to revise FAC-001 and FAC-002

### Recent Notes or Actions

* Comment period for SAR extended 12/11/24 – 1/21/25
* Comments available for review
* No updates

## [2023-01 EOP-004 IBR Event Reporting](https://www.nerc.com/pa/Stand/Pages/Project-2023-01-EOP-004-IBR-Event-Reporting.aspx)

**(ERCOT - Patrick Gravois)** *- expected to finish in 2025 or beyond.*

### Background

The Standard Authorization Request (SAR) proposes enhancements to EOP-004-4 (EOP-004) focused on ensuring timely reporting by industry to the Electric Reliability Organization (ERO) Enterprise through reporting of events involving inverter-based resources (IBRs). Currently, the standard has relatively large generator loss size thresholds and uses language more suitable for synchronous generation. The SAR proposes to enhance the standard by adding clarity and lowering the generator loss threshold to encompass the lessons from widespread IBR loss events that have occurred. The NERC Inverter-based Resource Performance Subcommittee (IRPS) presented the SAR to the Reliability and Security Technical Committee (RSTC) for comment in September 2022. After responding to the RSTC comments, the IRPS resubmitted the SAR, and the RSTC endorsed the SAR on December 6, 2022. The Standards Committee accepted the SAR on January 25, 2023.

Standard Affected: EOP-004-4​

### Previous Notes or Actions

* TPL-001-5.1 Footnote 13.d SAR Comment Period Open 4/13/2023 thru 5/12/2023
* Drafting Team nominations open until March 8, 2023
* 4/19/2023 Standards Committee authorize drafting the proposed Reliability Standard consistent with the revised SAR.
* 05/17/2023 Standards Committee Approved SAR
* 07/28/2023 – 08/28/2023EOP-004-5 Ballot Pool is open until
* 07/28/2023 – 09/11/2023 Comment Period Open for EOP-004-5
* 08/30/2023 – 9/11/2023 Balloting Period Open for EOP-004-5
* 09/11/2023 – EOP-004-5 Failed 32.4%

Comments typically surrounded undefined terms such as inverter based generation loss (can it draw in non BES equipment?) and the lack of accountability for non-registered entities.

* **SDT Notes**: 3/12/2024, Industry Webinar [video here](https://nerc.webex.com/recordingservice/sites/nerc/recording/990e5649c2b7103cbffd005056818c90/playback) and [slides here](https://www.nerc.com/pa/Stand/ProjectProProject202301EOP004IBREventReportingDL/Project%202023-01%20Webinar%20031224.pdf).
* **SDT Notes**: Informal Comment Period closes on March 27, 2024.
* **SDT Notes**: Informal Comment Period closed on March 27, 2024.
* **SDT**: Patrick Gravois, SDT Member, gave presentation on project in 3/28/2024 NSRF meeting. See [here](https://www.texasre.org/Documents/Standards/NSRF%20Uploads/March%202024/NERC%20IBR%20Project%20Update_NSRF_28Mar2024_1.pdf) for presentation slide.

### Recent Notes or Actions

* No updates

# **Low Priority Projects Updates**

## [2017-01 Modifications to BAL-003 – Phase II](https://www.nerc.com/pa/Stand/Pages/Project201701ModificationstoBAL00311.aspx)

*expected to finish in 2025 or beyond.*

### Background

Reliability Standard BAL-003-1 became effective in 2015. Supporting documents for BAL-003-1 were developed using engineering judgment on the data collection and process needed to determine the Interconnection Frequency Response Obligation (IFRO), as well as the processing of raw data to determine compliance. In the course of implementing the standard, minor errors in assumptions and process inefficiencies have been identified. Further, it was anticipated that as Frequency Response (FR) improves, the approaches embedded in the standard for collecting annual samples would need to be modified.

This project is a two-phase approach. The first phase addressed the Phase 1 recommendations in the Standard Authorization Request (SAR), resulting in Reliability Standard BAL-003-2. On July 15, 2020, the Federal Energy Regulatory Commission approved Reliability Standard BAL-003-2 and work began on the second phase of Reliability Standard improvements.

The scope of the work identified in the second phase is to (1) establish a real-time reliability standard addressing the necessary FR to maintain reliability; (2) establish comparability for the correct responsible entity; (3) develop real-time measurements incorporating topology difference; and (4) eliminate the incorrect indicators. ​

Standard(s) Affected: BAL-003-2 Frequency Response and Frequency Bias Setting

### Previous Notes or Actions

* Solicit Standard Committee approval for posting of Phase II revisions for industry approval and comments. Although not required, responses to Whitepaper industry comments will be posted with the initial Phase II posting.
* The last SDT meeting was on Tuesday, November 2, 2021.
* 1/19/22 SC: It was noted that the redlines are ready to be posted. It appears that the ballot closes on January 31, 2022.
* 2/16/22 SC: Project is in phase 2; another posting is coming up.
* 5/18/22 SC: Preparing to post proposed draft
* 7/20/22 SC: Authorize initial posting of proposed Reliability Standard BAL-003-3, the associated Implementation Plan, and related revised definitions for a 45-day formal comment period (through 9/7/22), with ballot pool formed in the first 30 days (through 8/23/22), and parallel initial ballots and non-binding polls on the Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs), conducted during the last 10 days of the comment period.
* Initial ballots and non-binding poll closed 9/7/22. Failed 43.75%:
* 04/18/2023 – 06/01/2023 Comment Period
* 05/23/2023 – 06/01/2023 Balloting Period
* BAL-003 Failed 58.21%

### Recent Notes or Actions

* A supplemental nomination period for additional drafting team members​ is open through 7/15/2025. (update: closed on 7/15/2025)

## [2019-04 Modifications to PRC-005-6](https://www.nerc.com/pa/Stand/Pages/Project-2019-04-Modifications-to-PRC-005-6.aspx)

*expected to finish in 2025 or beyond.*

### Background

On May 14, 2019, NERC received a Standard Authorization Request (SAR) from the North American Generator Forum (NAGF) seeking to revise Reliability Standard PRC-005-6 – Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance to clarify the applicability of PRC-005-6 to the protective functions within an Automatic Voltage Regulator (AVR) and provide the prescribed maintenance activities. The SAR also requests the PRC-005-6 Supplementary Reference and FAQ be updated to reflect the changes to the standard.

Standards affected: PRC-005-6

### Previous Notes or Actions

* The SAR DT reposted the SAR on July 27, 2021. The posting closed on August 25, 2021.
* The SAR DT meetings were scheduled for August 27, August 31 and September 2, 2021 to respond to comments.
* 1/19/22 SC: It was noted that the SDT would like to add new team members, which will need to be approved at a future SC.
* 2/16/22 SC: SDT expanded to 14 and approved.
* 4/19/2023 Standards Committee authorized initial posting of proposed Reliability Standard PRC-005-7, the associated Implementation Plan, and the related revised definition for a 45-day formal comment period, with ballot pools formed in the first 30 days, and parallel initial ballots and non-binding polls on the Violation Risk Factors (VRFs) and Violation Severity Levels (VSLs), conducted during the last 10 days of the comment period.
* 05/25/2023 – 06/23/2023 Ballot Pools Open
* 05/25/2023 – 07/24/2023 Comment Period Open
* 07/14/2023 – 07/24/2023 Initial Ballot
* 07/24/2023 – PRC-0005-7 Initial Ballot Failed 35.33%

### Recent Notes or Actions

* No Recent Notes or Actions Reported

## [2021-02 Modifications to VAR-002](https://www.nerc.com/pa/Stand/Pages/Project-2021-02-Modifications-to-VAR-002.aspx)

**(David Daniels) –** *expected to finish in 2025 or beyond.*

### Background

NERC Project 2021-02 proposed revisions address the NERC Inverter-based Resource Performance Task Force (IRPTF) Standard Authorization Request (SAR) and the VAR-002 Enhanced Periodic Review (EPR), NERC Project 2016-EPR-02, to address ambiguities of voltage and reactive resource Requirements concerning dispersed power producing resources. The IRPTF issued an IRPTF White Paper, March 2020, evaluating today's current standards and requirements of Inverter Based Resources (IBRs) to determine whether current Standards sufficiently address the needs for IBRs.

For dispersed power producing resources, it is not clear if a GOP is required to notify the TOP for the status change of voltage control on an individual generating unit. NERC Project 2014-01 Standards Applicability for Dispersed Generation Resources (nerc.com) revised VAR-002, Requirement R4, to clarify that it is not applicable to individual generating units of dispersed power producing resources. The IRPTF did not identify any reason why Requirement R3 should be treated differently than Requirement R4 in this respect and recommends VAR-002-4.1 be modified to make this same clarification to Requirement R3.

From a historical perspective, Requirements R3 and R4 dispersed Generation considerations, Project 2014-01 VAR-002-4 SDT Consideration of Comments, provided the following:

Project 2014-01 posted The DGR SDT understands that the generation facilities subject to Inclusion I4 of the BES definition can be comprised of individual generating units that are typically controlled by centralized voltage/reactive controllers that can be considered alternative voltage control devices as listed in Requirement R4. Additionally, there are generation facilities that perform voltage/reactive control at the individual power producing resource. The DGR SDT has determined that a status change of these controllers should be reported regardless of which voltage/reactive control design is used at a facility, which explains why the exclusion was not extended to Requirement R3. The exclusion in Requirement R4 was intended to exclude reporting of an individual generator at a dispersed generating facility coming offline as a change in reactive capability. ​

Standard(s) Affected – VAR-002-4.1​

### Previous Notes or Actions

* The Standards Committee approved the SAR drafting team in the July 21, 2021, SC meeting.
* The SAR DT will review received SAR comments.
* If revisions to the SAR are needed, a revised version will be submitted to SC for approval and posted for additional comment.
* 2/16/22 SC: 30-day formal comment period begins week of 2/21/22.
* Informal comment period open through 4/6/22.
* 6/15/22 SC: Approved the following:
  + Accept the revised Project 2021-02 Modifications to VAR-002-4.1 Standard Authorization Request (SAR)
  + Authorize drafting revisions to the Reliability Standard identified in the SAR
  + Appoint the Project 2021-02 Modifications to VAR-002-4.1 SAR Drafting Team (DT) as the Project 2021-02 Standard Drafting Team (SDT)
  + Authorize a 30-day solicitation for nominations period for the Project 2021-02 Modifications to VAR-002-4.1 SDT to add additional members of the SDT with specific industry expertise as Transmission Operators who receive and apply information to their respective Real-time assessment and Real-Time monitoring activities
* Supplemental drafting team nominations open through 7/15/22.
* 10/19/22 SC: Authorize initial posting of proposed Reliability Standard VAR-002-5 and the associated Implementation Plan for a 45-day formal comment period, with ballot pool formed in the first 30 days, and parallel initial ballot and non-binding polls for the Violation Risk Factors and Violation Severity Levels, conducted during the last 10 days of the comment period.
* A formal comment period is open through 12/19/22, ballot pools are being formed through 11/29/22, and initial ballots for the standards and implementation plans, as well as non-binding polls for the VRFs and VSLs will be conducted 12/9/22-12/19/22.
* 1/13/2023 Ballot failed 47.83%
* Comment Period 05/10/23 – 06/23/23, Balloting Period 06/14/23 – 06/23/23
* 06/23/2023 - VAR-002 Ballot Failed 52.58%
* The SDT are reviewing comments from last ballot for response and edits to draft.
* 09/22/2023 – 11/6/2023 – Comment Period Open
* 10/27/2023 - 11-6-2023 – Additional Ballots and Non-Binding Poll.
* 11/06/2023 Standard Ballot Failed 87.9% of Quorum with a Weighted Segment Value of 51.49
* 11/06/2023 Implementation Plan Failed 88.06% of Quorum with a Weighted Segment Value of 62.58
* 11/06/2023 Nonbinding poll 85.6% of Quorum with a Weighted Segment Value of 47.16

### Recent Notes or Actions

* No Recent Notes or Actions Reported

## [2021-08 Modifications to FAC-008-5](https://www.nerc.com/pa/Stand/Pages/Project2021-08ModificationstoFAC-008.aspx)

*expected to finish in 2025 or beyond.*

### Background

As currently written, the FAC-008 Reliability Standard and associated defined terms “Facility" and “Element" have been interpreted by some to mean that only electrical components may be considered when developing Generator Facility Ratings under R1. This could lead to plannin​​g and operational entities being provided Generator Facility Ratings that are higher than the actual output the plant is capable of, which could be detrimental to reliability during actual system emergencies. Explicitly allowing the inclusion of mechanical elements in the development of Facility Ratings will ensure Generators are rated to their most limiting element.

Further, the FAC-008-3 non-formal use of the term “jointly owned" is ambiguous when compared with the industry legacy use of “jointly owned" as a purely financial and contractual obligation.   This lack of clarity of intent of the standard could cause risk of facility rating gaps, misunderstanding of rating overlap requirements or gaps in facility rating coordination that could be resolved by clearly defining the technical expectations of the term “jointly owned".

**Standard(s) Affected:**[FAC-008-5​](https://www.nerc.com/pa/Stand/Reliability%20Standards/FAC-008-5.pdf)

### Previous Notes or Actions

* 12/09/20210-01/27/2022 A formal comment period for the SAR is open
* 4/20/22 SC: SC appointed chair, vice chair and members of the SAR DT.
* 09/21/2022 The Standards Committee accepted the SAR.
* 09/05/2023 – 10/04/2023 – Ballot Pool Open
* 09/05/2023 – 10/19/2023 – Comment Period Open
* 10/10/2023 – 10/19/2023 – Ballot Period
* 10/19/2013 – Standard Ballot Failed with a 28.8 Weighted Segment Value
* 10/19/2023 – Implementation Plan Plan Failed with a 39.39 Weighted Segment Value
* 10/19/2023 – Non Binding Poll had a 29.38 Weighted Segment Value

### Recent Notes or Actions

* No Recent Notes or Actions Reported

## [2023-05 Modifications to FAC-001 and FAC-002​](https://www.nerc.com/pa/Stand/Pages/Project-2023-05-Modifications-to-FAC-001-and-FAC-002.aspx)

*expected to finish in 2025 or beyond.*

### Background

The NERC System Performance Impacts of Distributed Energy Resources Work Group (SPIDERWG) evaluated the current body of NERC Reliability Standards and the requirements within those standards for distributed energy resource (DER) applicability and effectiveness with increasing penetrations of DER. This review is housed in the SPIDERWG White Paper: NERC Reliability Standards Review. The review took place between the years 2018 and 2022, culminating in a handful of SARs which included the SARs for FAC-001-4 and FAC-002-4. Both of these standards were identified as needing refinement, such that the reliability at the transmission to distribution interface (T-D interface) is maintained.

The RSTC endorsed the SARs at its March 22, 2023 meeting.

Standard(s) Affected – FAC-001-4, FAC-002-4

### Previous Notes or Actions

* 08/09/2023 – 09/07/2023 FAC-001 SAR Comment Period
* 08/09/2023 – 09/07/2023 FAC-002 Sar Comment Period
* 09/07/2023 – Comments Received for FAC-001 and FAC-002 SARs
* 08/09/2023 – 09/27/2023 Drafting Team nominations

### Recent Notes or Actions

* This project is anticipated to begin in late 2025 or early 2026 after

the completion of FERC 901 Milestone 3​.

## [2023-07 Transmission System Planning Performance Requirements for Extreme Weather](https://www.nerc.com/pa/Stand/Pages/Project-2023-07-Mod-to-TPL00151.aspx) (Archived) (Moved to Low)

**(ERCOT - Sun Wook)** – *Due date of December 15, 2024, per Order 896,* **​**[*Waiver​*](https://www.nerc.com/pa/Stand/Project202307ModtoTPL00151TransSystPlanPerfReqExWe/Item%2011%20-%20NERC%20Project%202023-07%20Waiver%20Request%20-%20One%20pager.pdf).

### Background

On June 15, 2023, FERC issued a Final Rulemaking to direct NERC to develop a new or modified Reliability Standard to address a lack of a long-term planning requirement(s) for extreme heat and cold weather events. Specifically, FERC directed NERC 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.​

Standard Affected: TPL-001-5.1

### Previous Notes or Actions

* 8/29/23 – 9/27/23 Drafting Team Nomination
* 8/29/23 – 9/27/23 Standard Authorization Request
* 10/18/2023 – Standards Committee approved the appointment of the Standard Drafting Team, Chair, and Vice Chair.
* 12/13/2023 **SC action**: Approved Waiver of provisions of the SPM. This waiver will allow Initial comment and ballot period to reduce to as few as 25 calendar days, additional formal comment ballot period reduced to as few as 15 calendar days, and final ballot reduced to 5 calendar days.
* **SDT Notes**: Currently drafting TPL-008-1 to focus on requirements and measures for PCs and TPs. Sun Wook Kang presented a detailed presentation at NSRF and slides can be found [here](https://www.texasre.org/Documents/Standards/NSRF%20Uploads/January%202024/NERC%20Project%202023-07%20High%20Level%20Overview_NSRF_PUBLIC.pdf).
* **SC Notes:** Week of March 18, formal comment period and initial ballot notices will be distributed.
* **SC Notes**: 3/20/24, Authorized a 45-day formal comment period for TPL-008-1 and its associated Implementation Plan, with ballot pools formed in the first 30 days and ballots conducted in the last 10 days.
  + **SDT Notes**: Formal Comment Period Open through May 3, 2024. Ballot pools forming through April 18, 2024. Balloting between April 24 - May 3, 2024.
  + **SDT Notes**: Comment and Ballots closed Friday, May 3, 2024. (Quorum / Approval)
  + TPL-008-1: 88.22% / 18.69%
  + Implementation Plan: 87.9% / 30.03%
* **SDT Notes**: Responding to comments received. Projected to post again week of ***7/8/24***.
  + **SDT Notes**: Formal comment period open between ***7/16/24 - 8/22/24***. Additional ballots open between ***8/13/24 - 8/22/24***.
  + **SDT Notes**: Comments and Ballots closed ***8/22/24***. (Quorum / Approval)
  + TPL-008-1: 87.9% / 18.17%
  + Implementation Plan: 87.58% / 31.97%
  + **SDT Notes**: Benchmark Event Data has been posted.
  + **SDT Notes**: Draft 3, 15-day Formal Comment Period open between 10/7-10/21/24 and additional ballot open between 10/11-10/21/24.
  + **SDT Note**: Industry Webinar held on 10/9/2024.
  + [Slide Presentation](https://urldefense.com/v3/__https:/www.nerc.com/pa/Stand/Project202307ModtoTPL00151TransSystPlanPerfReqExWe/2023-07_Industry_Webinar_Slides_100924.pdf__;!!DR3VkBMYqM1H!b4Vdptuex7FMl8yexn35lunix_dd5MXjUaf94DnMu_8Boso6mEy1_uNQnmyzZ37fZkBCi0ZW-RTCxkKS99xMErNcv0o$)
  + [Recording](https://urldefense.com/v3/__https:/nerc.webex.com/nerc/ldr.php?RCID=12756de55d34e1c4343a85169ea183df__;!!DR3VkBMYqM1H!b4Vdptuex7FMl8yexn35lunix_dd5MXjUaf94DnMu_8Boso6mEy1_uNQnmyzZ37fZkBCi0ZW-RTCxkKS99xM6T-QBcw$)
  + **Ballot Results**: (Quorum / Approval)
  + **TPL-008-1**: 84.39% / 51.9%
  + **TPL-008-1 IP**: 84.08% / 63.34%
* Filed with FERC: 12/17/24
* Project archived
* **Ballot Results:** (Quorum / Approval)
* **TPL-008-1**: 84.08% / 75.43%
  + **TPL-008 IP**: 84.08% / 79.38%

### Recent Notes or Actions

* Extreme Weather scenario development in progress, project moved to low priority
* A 30-day formal comment period is open through 7/14/2025 (UPDATED: 7/23/25).
* A 30 day Drafting Team nomination period was authorized, dates pending (Updated: 06/18/25 - ~~07/17/25~~ 8/18/25)

## [2023-08 Modifications of MOD-031 Demand and Energy Data](https://www.nerc.com/pa/Stand/Pages/Project2023-08-Modifications-of-MOD-031-Demand-and-Energy-Data.aspx)

*expected to finish in 2025 or beyond.*

### Background

The NERC Reliability Standard MOD-031-3 seeks to “provide authority for applicable entities to collect Demand energy and related data to support reliability studies and assessments and to enumerate the responsibilities and obligations of requestors and respondents of that data." The SPIDERWG has recently recommended in the White Paper: [SPIDERWG NERC Reliability Standards Review​](https://www.nerc.com/comm/RSTC_Reliability_Guidelines/Whitepaper_SPIDERWG_Standards_Review.pdf) that MOD-031-3 should be revised to allow for the Planning Coordinator (PC) to obtain existing and forecasted distributed energy resource (DER) information from Distribution Provider (DP) and Transmission Planner (TP) entities. The White Paper further asserts that the TP should have the ability to act as an intermediary to provide data from DPs to the PC. This project's goal is to ensure that various forms of historical and forecast Demand, energy data, and information are available to the parties that perform reliability studies and assessments and provid​e the authority needed to collect the applicable data.

**Standard Affected:** MOD-031​

### Previous Notes or Actions

* 10/10/23 – 11/08/23 ​​Drafting Team Nomination
* 10/10/23 – 11/08/23 ​​Standard Authorization Request for comments.

### Recent Notes or Actions

* Supplemental Drafting Team Nominations - 03/20/25 - 04/18/25 ~~(Extended to 5/31/25)~~ (~~Extended to 6/30/2025~~)(~~Extended to 7/31/25~~)(Extended to 8/15/25)

# **Other Projects Updates**

### Draft guidance on Rule 321 implementation has been provided to the SC