

Standards, Compliance, and Enforcement Bulletin

December 19–26, 2022

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ACTIVE STANDARDS POSTINGS

Current and Upcoming Ballots (ballot periods close at 8:00 p.m. Eastern)

Project	Action	Start Date	End Date
Project 2021-02 Modifications to VAR-002-4.1 Draft 1	Initial Ballots and Non-binding Poll	12/09/22	01/13/23
Project 2020-06 – Verifications of Models and Data for Generators Draft 2	Additional Ballots and Non-binding Polls	01/09/23	01/18/23

Join Ballot Pools

Project	Action	Start Date	End Date
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Posted for Comment

Project	Action	Start Date	End Date
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Project 2021-03 – CIP-002 Transmission Owner Control Centers Standard Authorization Requests	Comment Period	11/22/22	12/21/22
Project 2021-02 Modifications to VAR-002-4.1 Draft 1	Comment Period	10/31/22	01/13/23
Project 2020-06 – Verifications of Models and Data for Generators Draft 2	Comment Period	11/21/22	01/18/23

Posted for Comment			
Posting	Action	Start Date	End Date
Comment Period Open for Draft Reliability Guideline: The RSTC pre-approved posting of the Draft Reliability Guideline: Gas and Electrical Operational Coordination Considerations for industry comment. The redline version is also available.	Please submit comments via email using the comment form .	11/17/22	01/09/23
Comment Period Open for Draft Reliability Guideline: The Reliability and Security Technical Committee (RSTC) pre-approved posting of the Draft Reliability Guideline: Cyber Intrusion Guide for System Operators: Version 2 for 45-day industry comment. The redline version is also available.	Please submit comments via email using the comment form .	11/18/22	01/09/23
NEW Comment Period Open for Draft Reliability Guideline: The RSTC pre-approved posting of the Draft Reliability Guideline: Generating Unit Winter Weather Readiness for industry comment.	Please submit comments via email using the comment form .	12/14/22	01/27/23
NEW Comment Period Open for Draft Reliability Guideline: The RSTC pre-approved posting of the Draft Reliability Guideline: DER Data Collection and Model Verification of Aggregate DER for industry comment.	Please submit comments via email using the comment form .	12/16/22	02/06/23

STANDARDS NEWS

NEW Final Ballot Results for Project 2021-04 – Modifications to PRC-002

Final ballots concluded on December 16, 2022 for PRC-002-4 – Disturbance Monitoring and Reporting Requirements and its implementation plan. Voting statistics are listed below, and the [Ballot Results](#) page provides detailed results. The standards will be submitted to the Board of Trustees for adoption and then filed with the appropriate regulatory authorities. For information on the Standards Development Process, refer to the [Standard Processes Manual](#).

Standard	Quorum / Approval
PRC-002-4	83.79% / 96.43%
Implementation Plan	84.32% / 96.11%

Quick Links

- [Register in the SBS](#)
- [Projected Standards Posting Schedule](#)
- [Project Tracking Spreadsheet](#)
- [2021–2023 Reliability Standards Development Plan](#)
- [Quality Review Application](#)
- [One-Stop Shop \(Status, Purpose, Implementation Plans, FERC Orders, RSAWs\)](#)
- [CIP Standards Efficiency Review](#)
- [Submit Questions or Feedback](#)

GENERAL COMPLIANCE AND ENFORCEMENT NEWS

There is no additional Compliance and Enforcement news to report for this week.

Quick Links

- [Compliance Monitoring & Enforcement Program One-Stop Shop](#)
- [ERO Enterprise Program Alignment Process](#)
- [Consistency Reporting Tool \(EthicsPoint\)](#)
- [Risk-Based Registration Initiative](#)
- [Reliability Standard Audit Worksheets](#)
- [Enforcement & Mitigation: Enforcement Actions Align Project](#)

OTHER NEWS

NEW New Strategy Seeks to Ensure Reliability by Integrating Cyber and Physical Security into Grid Planning, Design, Operation

The transformation of the grid is expanding the existing attack surface due to the changing resource mix as well as the use of emerging technologies, additional communications and industrial controls, and remote control capabilities. Focusing on and mitigating these known and emerging cyber and physical security risks is critical to the ERO Enterprise's mission of assuring the reliability, resilience, and security of the North American electric grid.

To that end, NERC is integrating cyber and physical security concepts more holistically into transmission planning, engineering design, and system operations to ensure that mitigating security controls are considered as early in the process as possible. The new [NERC Security Integration Strategy](#), which is primarily focused on risk identification and validation, prioritization, and development of possible mitigations, outlines ERO priorities to enhance security integration through working collaboratively with electricity sector stakeholders.

NEW Technical Reference Document Posted

In 2015, NERC's Reliability Standards were revised to require the use of dynamic load models in transmission planning studies. To comply with the standards, planners must use load models that explicitly represent the dynamic behavior of the different constituents of load at each load bus within their transmission planning models. The most important of these constituents are motor-driven and power electronics-based loads. Collectively, these representations are known as composite load models (CLM). In anticipation of the compliance date for the new standards, NERC's Load Modeling Task Force (LMTF) initiated a field test of CLMs involving the regional reliability planning entities in 2019. In support of the field test, Department of Energy (DOE) and Bonneville Power Administration (BPA) researchers developed area-specific CLMs that could be assigned to each non-industrial load bus in the planning models for each of the North American Interconnections. Separate models were developed for each hour of a summer peak day, a winter peak day, and a spring light-load day. The [Technical Reference Document: Load Composition Analysis in Support of the NERC Load Modeling Working Group 2019–2020 Field Test of the Composite Load Model](#) is the technical documentation for the load composition analysis that was conducted to develop these non-industrial CLMs.

NEW White Paper Posted

The NERC standard TPL-001 requires the development and use of transient voltage response (TVR) criteria. The purpose served by the TVR criteria is to provide a simple and a direct means of identifying potential reliability issues when conducting positive sequence simulation studies of the disturbances that are directed by TPL-001 (P1 through P7). The [Transient Voltage Response Criteria](#) white paper offers guidance on how to establish TVR criteria and—importantly—to identify reliability issues that planning entities may wish to consider when applying it. This report

does not direct adoption of specific numerical TVR criteria. Moreover, none of the recommendations in this paper should be interpreted as a directing, much less requiring, a particular action or response when applying TVR criteria.

NEW Workshop Materials Posted

The NERC System Planning Impacts of DER Working Group (SPIDERWG) hosted a one-day virtual workshop to talk about the latest updates and progress on work supporting the reliable integration of increasing levels of distributed energy resources (DER). The workshop explored the technical work recently approved by the NERC Reliability and Security Technical Committee as well as addressed a number of opportunities for industry action to further understand the reliability and security impacts of aggregate DERs to the bulk power system. The workshop also described current and emerging topics related to DERs, and future plans for SPIDERWG activities. The [presentations](#), [recording](#), and a [brief survey](#) for the workshop have been posted on the [SPIDERWG web page](#).

NEW 10-Year Outlook Underscores Reliability Impacts During Rapid Energy Transition

NERC's [2022 Long-Term Reliability Assessment](#) identifies energy and capacity risks that underscore the need for reliability to be a top priority for resource and system planners in North America as the energy transition unfolds. The assessment concludes that planners and operators of the grid must increasingly account for different characteristics and performance of resources being brought online during the energy transition.

Undertaken annually in coordination with the Regional Entities, NERC's 2022 LTRA is the ERO's independent assessment and comprehensive report on the adequacy of planned bulk power system resources to reliably meet the electricity demand across North America over the next 10 years. [Full Announcement](#) | [2022 LTRA](#) | [2022 LTRA Infographic](#)

NEW Lesson Learned Posted

One new lesson learned—[Air Breaker Cold Weather Operations](#)—has been posted on the [Lessons Learned](#) page.

STANDARDS SUBJECT TO FUTURE ENFORCEMENT

Please refer to the [U.S. Effective Dates page](#) for the most up-to-date information on effective dates and for more detail on the below.

U.S. Effective Dates for Reliability Standards	
U.S. Effective Date	Standard(s)
January 1, 2023	TPL-007-4 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirements R3, R4, 4.1, 4.1.1–4.1.2, 4.2, 4.3, 4.3.1, R8, 8.1, 8.1.1–8.1.2, 8.2, 8.3, 8.3.1)
April 1, 2023	EOP-011-2 – Emergency Preparedness and Operations
	IRO-010-4 – Reliability Coordinator Data Specification and Collection
	TOP-003-5 – Operational Reliability Data
July 1, 2023	TPL-001-5.1 – Transmission System Planning Performance Requirements Implementation Plan
January 1, 2024	CIP-004-7 – Cyber Security – Personnel & Training
	CIP-011-3 – Cyber Security - Information Protection
	FAC-001-4 – Facility Interconnection Requirements Implementation Plan
	FAC-002-4 – Facility Interconnection Studies Implementation Plan
April 1, 2024	TPL-007-4 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirements R7, 7.1–7.3, 7.3.1–7.3.2, 7.4, 7.4.1–7.4.3, 7.5, 7.5.1., R11, 11.1–11.3, 11.3.1–11.3.2, 11.4, 11.4.1–11.4.3, 11.5, and 11.5.1)
	FAC-003-5 – Transmission Vegetation Management
	FAC-011-4 – System Operating Limits Methodology for the Operations Horizon
	FAC-014-3 – Establish and Communicate System Operating Limits
	IRO-008-3 – Reliability Coordinator Operational Analyses and Real-time Assessments
	PRC-023-5 – Transmission Relay Loadability Implementation Plan
	PRC-002-3 – Disturbance Monitoring and Reporting Requirements Implementation Plan
	PRC-026-2 – Relay Performance During Stable Power Swings Implementation Plan
TOP-001-6 – Transmission Operations	

BOARD OF TRUSTEES AND FERC ACTION

NEW NERC Filings

On December 16, 2022, NERC submitted to FERC [reply comments](#) in response to comments filed regarding NERC's petition for approval of Reliability Standards EOP-011-3 and EOP-012-1.

On December 15, 2022, NERC submitted an [informational filing](#) as directed by FERC in its February 20, 2020 Order. This filing contains a status update on one standard development project relating to the CIP Reliability Standards.

On December 14, 2022, NERC submitted to FERC [reply comments](#) to comments of the Electric Research Institute on the Notice of Proposed Rulemaking (NOPR) regarding Improvements to Generator Interconnection Procedures and Agreements.

You can find all of NERC's filings to FERC for 2022 on our website [here](#).

NEW FERC Issuances

On December 15, FERC issued the following orders:

- An [order](#) denying the Complaint of George Cotter seeking modifications to Critical Infrastructure Security Standards under EL21-105-000.
- An [order](#) directing NERC to conduct a study evaluating the effectiveness of Reliability Standard CIP-014-3 and submit the report within 120 days of the order date RD23-2-000.

You can find all FERC issuances for 2022 on our website [here](#).

NEW Glick Announces Departure at FERC Open Meeting

During the December FERC open meeting, Commission Chair Rich Glick announced that he will be leaving the Commission when congress adjourns. "We thank Chairman Glick for his distinguished service to the nation and strong commitment to reliability and security of the electric grid. During his more than five years at FERC, the past two as chairman, Rich has led FERC and collaborated with NERC to develop solutions to the reliability and security challenges of the rapidly transforming bulk power system and been a champion for others doing the same," NERC President and CEO Jim Robb said. "We had the opportunity to partner on several issues, most notably the response to Winter Storm Uri in 2021,

and committed that we would take actions against the findings of the joint inquiry. I appreciated his steady leadership at FERC and wish him all the very best in his next endeavors.”

Earlier in the meeting, FERC and NERC staff gave a [presentation](#) on progress toward recommendations from their joint report, [The February 2021 Cold Weather Outages in Texas and the South Central United States \(November 2021\)](#) at FERC’s December open meeting today. The briefing highlighted activities in five categories designated in the report: freeze protection, gas-electric coordination, grid operations, state-level, and further studies. Progress has been made toward implementing all 28 recommendations contained in the report, the team said. The team also reported that they are working closely with the National Association of Regulatory Utility Commissioners (NARUC) to learn more about how the states are implementing the recommendations within their jurisdictions.

NERC submitted the first set of proposed standards for generator cold weather preparedness and freeze protection to FERC October 28, ahead of the original November 2022 schedule, which address four of the report’s key recommendations for new standards. A NERC standards drafting team continues work to address the remaining recommended standards, with the goal of filing by November 2023.

UPCOMING EVENTS

For information about other NERC events, such as meetings and conference calls for other standing committees, subcommittees, task forces, and working groups, please refer to the [NERC calendar](#).

Workshops and Conferences

There are no workshops or conferences currently scheduled.

Webinars

There are no webinars currently scheduled.

Standing Committee Meetings and Conference Calls

- Standards Committee Special Call – 12:00–1:00 p.m. Eastern, January 12, 2023 | [Register](#)

Standard Drafting Team Meetings

- Project 2021-08 – Modifications to FAC-008 Standard Drafting Team Meeting – 1:00–3:00 p.m. Eastern, December 20, 2022 | [Register](#)

- **NEW** Project 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination Standard Drafting Team Meeting – 1:00–2:30 p.m. Eastern, January 3, 2023 | [Register](#)
- **NEW** Project 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination Standard Drafting Team Meeting – 1:00–2:30 p.m. Eastern, January 5, 2023 | [Register](#)
- **NEW** Project 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination Standard Drafting Team Meeting – 1:00–2:30 p.m. Eastern, January 10, 2023 | [Register](#)
- **NEW** Project 2021-08 – Modifications to FAC-008 Standard Drafting Team Meeting – 1:00–3:00 p.m. Eastern, January 10, 2023 | [Register](#)
- **NEW** Project 2022-02 Modifications to TPL-001-5.1 and MOD-032-1 Standard Drafting Team Meeting – January 11–12, 2023, Atlanta | [Register](#)
- **NEW** Project 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination Standard Drafting Team Meeting – 1:00–2:30 p.m. Eastern, January 12, 2023 | [Register](#)
- **NEW** Project 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination Standard Drafting Team Meeting – January 18–20, 2023, Tucson, Arizona | [Register](#)

ABOUT THE STANDARDS, COMPLIANCE, AND ENFORCEMENT BULLETIN

This weekly bulletin compiles a list of standards, compliance, and enforcement projects with actionable deadlines, as well as upcoming events, recently posted resources, other NERC documents posted for comment, and other relevant news and information. Please email [Amy Klagholz](#) with feedback on this bulletin. The current bulletin and old bulletins are available under “Program News” on both the [Standards home page](#) and the [Compliance & Enforcement home page](#).

REGISTRATION: If you would like to receive this bulletin or be added to a NERC distribution list, you **must** first register an account in the [ERO Portal](#). Once you have registered your ERO Portal account, authenticated your credentials with DUO, and completed your profile, please submit a ticket through the [Help Desk](#) by selecting the “NERC Email Distribution List” option under the Applications menu. In the Description Box, please specify which lists you would like your email address to be added to. If you are unsure of which distribution list you would like to be added to, an excellent starting point is the “[Committee](#)” page. You can note the committee abbreviation, which represents the distribution list you would like to join, in the Description Box. If you have other NERC-related or specific Standards projects you’re interested in, you may request those as well. If you’re interested in general information, please request to be added to the NERC-info distribution list, which covers most NERC announcements. This bulletin is distributed to several lists, including the Standards distribution list (Standards-specific announcements) and the NERC-info distribution list.