

Standards, Compliance, and Enforcement Bulletin

December 20–26, 2021

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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 2020-04 – Modifications to CIP-012 Draft 2	Additional Ballot and Non-Binding Polls	01/14/22	01/24/22
Project 2020-05 – Modifications to FAC-001 and FAC-002 Draft 1	Initial Ballot and Non-Binding Polls	01/21/22	01/31/22

Join Ballot Pools

Project	Action	Start Date	End Date
Project 2020-05 – Modifications to FAC-001 and FAC-002 Draft 1	Join Ballot Pools	12/07/21	01/10/22

Posted for Comment

Project	Action	Start Date	End Date
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Project 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination SAR	Comment Period	11/22/21	12/21/21
Project 2020-04 – Modifications to CIP-012 Draft 2	Comment Period	11/30/21	01/24/22
Project 2021-08 – Modifications to FAC-008 SAR	Comment Period	12/09/21	01/27/22
Project 2020-05 – Modifications to FAC-001 and FAC-002 Draft 1	Comment Period	12/07/21	01/31/22

OTHER ACTIVE COMMENT PERIODS

Posted for Comment

Posting	Action	Start Date	End Date
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STANDARDS NEWS

There is no additional Standards news to report for this week.

Quick Links

- [Register in the SBS](#)
- [Projected Standards Posting Schedule](#)
- [Project Tracking Spreadsheet](#)
- [2019–2021 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 \(formerly CMEP Technology Project\)](#)

OTHER NEWS

NEW Assessment Calls for Focus on Electric Assurance and Greater Coordination with Natural Gas Industry

NERC's *2021 Long-Term Reliability Assessment* (LTRA) concludes that managing the transformation of the grid and the associated rapid change to the resource mix is the greatest challenge to reliability over the next 10 years. The LTRA calls for a collective focus on energy assurance as well as greater coordination between the natural gas and electricity industries as stakeholders and policymakers work together to ensure reliability during this time of grid transition. [Full Announcement](#) | [2021 Long-Term Reliability Assessment](#) | [2021 LTRA Infographic](#)

NEW IRPWG Approved White Papers Posted and Endorsed SAR

The Inverter-Based Resource Performance Working Group (IRPWG) developed three White Papers that were approved for publication and a Standards Authorization Request (SAR) that was endorsed by the Reliability and Security Technical Committee (RSTC) on December 15, 2021.

[Odessa Disturbance Follow-Up White Paper](#)

This brief white paper was developed by the NERC Inverter-Based Resource Performance Working Group (IRPWG) as a follow-up to the *Odessa Disturbance Report* published by NERC in October 2021. That report contained a set of key findings and recommendations. The IRPWG discussed each of the key findings and recommendations in detail and is providing a brief technical discussion and technical basis for each recommendation. Where appropriate, follow-up action items are identified. Table 1 shows the recommendations and actions needed from Chapter 3 of the NERC disturbance report on the left-hand column, and the IRPWG follow-up and recommendations for each item in the right-hand column.

[IBR/Hybrid FFR Capabilities White Paper](#)

FERC issued Order No. 842 in 2018, amending the pro forma Large Generator Interconnection Agreement (LGIA) and Small Generator Interconnection Agreement (SGIA) to require all “newly interconnecting large and small generating facilities, both synchronous and non-synchronous, to install, maintain, and operate equipment capable of providing primary frequency response (PFR) as a condition of interconnection.” On the same subject, NERC recently published a white paper—Fast Frequency Response Concepts and Bulk Power System Reliability Needs—in March 2020 describing the interrelationships between primary frequency response (PFR) and fast frequency response (FFR). This work extends on the FERC Order NO. 842 and the NERC white paper and recommends leveraging PFR and FFR capabilities from inverter-based resources to the extent possible to support BPS frequency as an essential reliability service.

[Grid Forming Technology \(GFM\) White Paper](#)

This white paper compares GFM and GFL IBR capability and their major performance characteristics and advantages. Currently, the most commonly used GFM control strategies of droop-based GFM control, virtual synchronous machine control, and virtual oscillator control are briefly summarized. The white paper also provides recommendations for entities across North America to consider studying and deploying GFM technology to support BPS reliability and resilience with increasing IBR penetration levels.

TPL-001-5.1 Transmission System Planning Performance Requirements

A SAR regarding modifications to TPL-001-5 was endorsed by the RSTC to address terminology throughout the standard that is unclear with respect to BPS-connected inverter-based resources. The SAR revises requirements within the TPL-001-5 standard to provide clarity and consistency for how BPS-connected inverter-based resources are considered, modeled, and studied in planning assessments. The proposed revisions to TPL-001-5 will ensure industry is effectively and efficiently conducting planning assessments and that the requirements are equally suitable for inverter-based resources as they are for synchronous generation.

NEW Monitoring and Situational Awareness Technical Conference Resources Posted

The presentations and streaming webinars from Sessions 1, 2, and 3 of the 2021 Monitoring and Situational Awareness Technical Conference have been posted on the NERC website.

Click here for Session 1: [Presentation](#) | [Streaming Webinar](#)

Click here for Session 2: [Presentation](#) | [Streaming Webinar](#)

Click here for Session 3: [Presentation](#) | [Streaming Webinar](#)

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, 2022	PRC-012-2 – Remedial Action Schemes (Requirement R9)
	TPL-007-4 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirements R6, 6.1–6.4, R10, 10.1–10.4)
July 1, 2022	CIP-012-1 – Cyber Security – Communications between Control Centers
	PRC-002-2 – Disturbance Monitoring and Reporting Requirements (100% compliance for Requirements R2–R4, R6–R11)
October 1, 2022	CIP-005-7 – Cyber Security – Electronic Security Perimeter(s)
	CIP-010-4 – Cyber Security – Configuration Change Management and Vulnerability Assessments
	CIP-013-2 – Cyber Security – Supply Chain Risk Management
	PRC-024-3 – Frequency and Voltage Protection Settings for Generating Resources
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	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)

BOARD OF TRUSTEES AND FERC ACTION

NEW NERC Filings

On December 17, 2021, NERC submitted to FERC an [informational filing](#) regarding Bulk Electric System operations in the cloud as directed by FERC in its [December 17, 2020 Order](#).

On December 14, 2021, NERC submitted three filings to FERC:

- NERC submitted an [informational compliance 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.
- NERC submitted its [2021 Frequency Response Annual Analysis \(FRAA\) report](#) for the administration and support of Reliability Standard BAL-003-2 – Frequency Response and Frequency Bias Setting.
- NERC and SERC Reliability Corporation submitted to FERC a [joint petition](#) for approval of proposed Regional Reliability Standard PRC-006-SERC-03 and request for expedited action.

You can find all filings to FERC for 2021 on our website [here](#).

NEW FERC Issuances

On December 17, 2021, FERC issued an [order](#) regarding Managing Transmission Line Ratings under docket RM20-16-000.

You can find all FERC issuances for 2021 on our website [here](#).

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

- **NEW** Member Representatives Committee Pre-Meeting Conference Call and Informational Webinar – 11:00 a.m.–12:00 p.m. Eastern, January 12, 2022 | [Register](#)
- **NEW** Compliance and Certification Committee Meeting – 11:00 a.m.–3:00 p.m. Eastern, January 27, 2022 | [Register](#)

Standard Drafting Team Meetings and Conference Calls

There are no Standard Drafting team meetings currently scheduled.

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.