

Standards, Compliance, and Enforcement Bulletin

February 19–25, 2018

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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 2017-02 – Modifications to PER Standards PER-003-2 and Implementation Plan	Initial Ballots	02/26/18	03/07/18

Join Ballot Pools (ballot pool windows close at 8:00 p.m. Eastern)

Project	Action	Start Date	End Date
Project 2017-02 – Modifications to PER Standards PER-003-2 and Implementation Plan	Join Ballot Pools	01/22/18	02/20/18

Posted for Comment

Project	Action	Start Date	End Date
Project 2017-04 – Periodic Review of INT Standards Templates	Comment Period	01/10/18	02/23/18

Project 2017-07 – Standards Alignment with Registration Standards Authorization Request	Comment Period	02/01/18	03/02/18
Project 2017-02 – Modifications to PER Standards PER-003-2 and Implementation Plan	Comment Period	01/22/18	03/07/18

OTHER ACTIVE COMMENT PERIODS

Posted for Comment			
Posting	Action	Start Date	End Date
<p>Comment Period Open for Power Plant Model and Verification Testing for Synchronous Machines Draft Reliability Guideline: The development and verification of steady-state and dynamic models that accurately represent the equipment installed in the field is a critical component of planning and operating the bulk power system. The draft Reliability Guideline covers an array of testing considerations, procedures, and how those tests help derive or verify model parameters, as related to MOD-025-2, MOD-026-1, and MOD-027-1 Reliability Standards. The guideline describes tests that may need to be performed for generating facilities depending on specific situations (e.g., commissioning, development of a baseline model, and model verification).</p> <p>In addition to the dynamic model verification processes, the inter-related aspects of generator protection coordination (PRC-019-2) and generator capability testing (MOD-025-2) are considered in the guideline.</p>	Submit comments via email using the comment form .	01/10/18	02/23/18
<p>NEW Comment Period Open for System Operator Certification Program Survey: The Personnel Certification Governance Committee (PCGC) is in the process of reviewing the NERC System Operator</p>	Submit survey responses using the electronic form .	02/13/18	03/15/18

<p>Certification (SOC) program. Industry input is a critical part of the process. The PCGC is requesting input from industry stakeholders related to the SOC program for potential future program development and/or improvement.</p> <p>All program participants including certified System Operators, program candidates, Continuing Education providers, and entity trainers, are encouraged to participate in the survey. Your input is valuable.</p> <p>An unofficial Word version of the survey is available on the System Operator Certification page and the Continuing Education page of the NERC website. Please reference the Word version of the survey on the website for Table 3.</p> <p>The PCGC will review all responses submitted by industry stakeholders.</p>			
<p>Comment Period Open for Proposed NERC Rules of Procedure Section 1600 Data Request for GMD Data: On September 22, 2016, the FERC issued Order No. 830 approving Reliability Standard TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events. In the Order, FERC also directed NERC, pursuant to Section 1600 of the NERC Rules of Procedure, to collect geomagnetically-induced current (GIC) monitoring and magnetometer data from U.S. registered entities for the period beginning May 2013, including both data existing as of the date of the Order and new data going forward (P. 89). The data is intended to promote greater understanding of GMD events and their potential impacts to the reliable operation of the Bulk-Power System.</p>	<p>Submit comments using the electronic form. An unofficial comment form is also available.</p>	<p>02/07/18</p>	<p>03/26/18</p>

<p>NERC and the Geomagnetic Disturbance Task Force (GMDTF) have drafted the proposed GMD Data Request for the collection of GIC monitoring and magnetometer data as required by Order No. 830. The GMD Data Request applies to U.S. registered Transmission Owners and Generator Owners. Although not required, Canadian registered Transmission Owners and Generator Owners are encouraged to participate.</p> <p>At the conclusion of the comment period, NERC staff and the GMDTF will review the comments received, consider revisions, and determine next steps in accordance with NERC Rules of Procedure.</p>			
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STANDARDS NEWS

NEW Standards Balloting and Commenting System Enhancements Deployed

NERC Standards staff is pleased to announce that the following enhancements were deployed to the Standards Balloting and Commenting System on February 12, 2018:

- Voters have the ability to delegate proxies in additional ballots, when the comment period opens; and
- Users requesting voter credentials in the registered ballot body can attach supporting documentation for entity/segment eligibility.

Save the Date for 2018 NERC Standards and Compliance Workshop

The 2018 NERC Standards and Compliance Workshop is planned for July 24–25, 2018 in Columbus, Ohio. The workshop will present stakeholders with valuable information about standards development, compliance monitoring and operations, and other initiatives. An optional NERC Standards and Compliance 101 presentation will be offered as well.

Detailed information regarding the workshop—including workshop and hotel registration, discounted room rates, and a draft agenda—will be posted and included in the bulletin shortly.

Quick Links
<p>Register in the SBS Projected Standards Posting Schedule Project Tracking Spreadsheet Standards Related Questions – Single Portal 2017–2019 Reliability Standards Development Plan Quality Review Application</p>

GENERAL COMPLIANCE AND ENFORCEMENT NEWS

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

Quick Links

- [Risk-Based CMEP](#)
- [CIP V5 Transition Program](#)
- [ERO Enterprise Program Alignment Process](#)
- [Consistency Reporting Tool \(EthicsPoint\)](#)
- [Risk-Based Registration Initiative](#)
- [Reliability Standard Audit Worksheets](#)
- [Enforcement & Mitigation: Enforcement Actions](#)

OTHER NEWS

Inverter-Based Resource Webinar Series Announced

Join NERC along with the Electric Power Research Institute (EPRI), North American Transmission Forum (NATF), and Utility Variable-Generation Integration Group (UVIG) for a comprehensive [series of webinars on inverter-based resources](#). The increasing penetration of inverter-based resources, including renewable energy resources, is creating new opportunities and challenges in planning and operating the bulk power system. This webinar series will explore various aspects of both bulk power system-connected inverter-based resources as well as distributed energy resources. Registration is available under [Upcoming Events](#).

STANDARDS SUBJECT TO FUTURE ENFORCEMENT

The following standards are subject to future enforcement. Please refer to the [U.S. Effective Dates page](#) for more detail:

U.S. Effective Date	Standard(s)
April 1, 2018	IRO-018-1(i) – Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities
	TOP-010-1(i) – Real-time Reliability Monitoring and Analysis Capabilities
July 1, 2018	CIP-009-6 – Cyber Security — Recovery Plans for BES Cyber Systems (Requirement 2.3);

	CIP-010-2 – Cyber Security — Configuration Change Management and Vulnerability Assessments (Requirements 3.2, 3.2.1, 3.2.2); MOD-026-1 – Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions (Requirements 2, 2.1–2.1.6); MOD-027-1 – Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions (Requirements 2, 2.1–2.1.5); TOP-001-4 – Transmission Operations TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirement 2)
September 1, 2018	CIP-003-6 – Cyber Security – Security Management Controls (Requirement 2, Att. 1, Sec. 2 and 3);
January 1, 2019	BAL-005-1 – Balancing Authority Control FAC-001-3 – Facility Interconnection Requirements TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirement 5)
April 1, 2019	EOP-004-4 – Event Reporting EOP-005-3 – System Restoration from Blackstart Resources EOP-006-3 – System Restoration Coordination EOP-008-2 – Loss of Control Center Functionality
January 1, 2020	PRC-026-1 – Relay Performance During Stable Power Swings (Requirements 2–4)
July 1, 2020	PRC-002-2 – Disturbance Monitoring and Reporting Requirements (50% compliance for Requirements 2–4, 6–11)
January 1, 2021	PRC-012-2 – Remedial Action Schemes TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirements 6, 6.1–6.4)
January 1, 2022	TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (Requirements 3,4,7)
July 1, 2022	PRC-002-2 – Disturbance Monitoring and Reporting Requirements (100% compliance for Requirements 2–4, 6–11) VAR-501-WECC-3 – Power System Stabilizer (Requirement 3 has an effective date of July 1, 2022 for units placed in service prior to final regulatory approval.)

BOARD OF TRUSTEES AND FERC ACTION

NEW FERC Open Meeting Action

At its February 16 open meeting, FERC issued [Order No. 842](#), revising FERC's pro forma Large Generator and Small Generator Interconnection Agreements (LGIA and SGIA, respectively) to require that all new generating facilities install, maintain, and operate a functioning governor or equivalent controls in support of primary frequency response as a precondition of interconnection. The order also revises the pro forma LGIA and SGIA to impose certain operating requirements developed by NERC, while allowing for the possibility of a future NERC Reliability Standard with equivalent or more stringent operating requirements. Further, FERC was persuaded by NERC's suggestion to require that interconnection customers provide relevant balancing authorities with the status and settings of their governor or equivalent controls upon request or when those controls are out of service.

FERC also issued [Order No. 841](#), in which FERC directed each ISO and RTO to revise its tariff to accommodate the participation of electric storage resources in the wholesale electric markets. FERC directed each ISO and RTO to establish a participatory model that will: (1) ensure that a resource using the participation model is eligible to provide all capacity, energy, and ancillary services that the resource is technically capable of providing in the RTO/ISO markets; (2) ensure that a resource using the participation model can be dispatched and can set the wholesale market clearing price as both a wholesale seller and wholesale buyer consistent with existing market rules that govern when a resource can set the wholesale price; (3) account for the physical and operational characteristics of electric storage resources through bidding parameters or other means; and (4) establish a minimum size requirement for participation in the RTO/ISO markets that does not exceed 100 kW. FERC has created a separate docket (Docket No. RM18-9-000) to address whether similar reforms should be implemented with respect to the participation of distributed energy resource aggregations in the wholesale electric markets.

NEW NERC Filings

On February 12, 2018, NERC filed with FERC a [petition](#) for approval of amendments to the SERC Reliability Corporation Regional Reliability Standard Development Procedure.

NERC 2018 filings to FERC are available [here](#).

NEW Board Welcomes New Trustees; Approves Transfer of SPP Registered Entities

The Board of Trustees held their quarterly meeting February 8 in Ft. Lauderdale, Fla. The meeting was opened by Board Chair Roy Thilly, with Charles Berardesco providing the Interim President's report. Welcoming remarks were made by Eric Silagy, president and chief executive

officer, Florida Power & Light; Kevin McIntyre, chair, Federal Energy Regulatory Commission; and Bruce Walker, assistant secretary, Department of Energy.

The Board welcomed two new members, elected by the Member Representatives Committee on February 7, to NERC's Board of Trustees: **Suzanne Keenan**, formerly Chief Information Officer of Wawa Inc., a leading East coast retail chain, and also senior positions at Comcast Cable Communications and PECO Electric (now part of Exelon Corporation); and **Robin Manning**, most recently vice president of Transmission and Distribution Infrastructure at EPRI and previously held senior positions at Tennessee Valley Authority and Duke Energy. In addition George Hawkins and Jan Schori were re-elected to new Board terms. The Board also named **Scott Jones** as senior vice president, who serves as NERC's Chief Financial and Administrative Officer and Treasurer. Jones joined NERC in December 2014 as the senior director of Finance and was appointed vice president and Chief Financial Officer by the Board in August 2017. For more information, please see the [full announcement](#).

UPCOMING EVENTS

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

Workshops and Conferences

- Emerging Technology Roundtable – 1:00–5:00 p.m. Eastern, March 7, 2018, Jacksonville, FL | [Register](#)
- Supply Chain Small Group Advisory Sessions – March 13–15, 2018, Atlanta | Send SGAS Registration Requests to cipcadmin@nerc.net | Send Workshop Registration Requests to cipcadmin@nerc.net
- Seventh Annual Human Performance Conference – March 27–29, 2018, Atlanta | [Register for Conference and Workshops](#) | [Register for Hotel](#)
- 2018 NERC Standards and Compliance Workshop – July 24–25, 2018, Columbus, Ohio | **Registration Information Coming Soon**

Webinars

- **NEW** Risks and Mitigations for Losing EMS Functions Reference Document Webinar – 2:00–3:00 p.m. Eastern, February 27, 2018 | [Register](#)
- [Inverter-Based Resource Webinar Series](#): Inverter Fundamentals – Distributed Energy Resources and Bulk Power System Connected Resources – 2:00–4:00 p.m. Eastern, March 21, 2018 | [Register](#)

- [Inverter-Based Resource Webinar Series](#): Distributed Energy Resource Impacts – 2:00–4:00 p.m. Eastern, April 5, 2018 | [Register](#)
- [Inverter-Based Resource Webinar Series](#): Inverter-Based Resources Connected to the Bulk Power System – 2:00–4:00 p.m. Eastern, May 2, 2018 | [Register](#)
- [Inverter-Based Resource Webinar Series](#): Inverter Modeling for Protection, Harmonics, EMT Studies, and Review of Real-World VER-Related Events – 2:00–4:00 p.m. Eastern, May 17, 2018 | [Register](#)
- [Inverter-Based Resource Webinar Series](#): Recommended Performance for Inverter-Based Resources Connected to the Bulk Power System – NERC Reliability Guideline – 2:00–4:00 p.m. Eastern, June 13, 2018 | [Register](#)

Standing Committee Meetings and Conference Calls

- Operating Committee, Planning Committee, and Critical Infrastructure Protection Committee Meetings – March 6–7, 2018, Jacksonville, FL | [Register for OC](#) | [Register for PC](#) | [Register for CIPC](#) | [Register for Hotel](#)

Standard Drafting Team Meetings and Conference Calls

The [Standards calendar](#) provides dial-in information for the in-person meetings below. The calendar also provides information about conference calls that drafting teams may hold in addition to in-person meetings.

- Project 2017-01 – Modifications to BAL-003-1.1 Team Meeting – February 20–21, 2018, Portland, OR | [Register](#)
- **NEW** Project 2016-02 – Modifications to CIP Standards Drafting Team Conference Call – 1:00–2:00 p.m. Eastern, February 20, 2018, | [Register](#)
- Long-Term Planning Standards Efficiency Review Team Meeting – February 20, 2018, Atlanta | [Register](#)
- Operations Planning Standards Efficiency Review Team Meeting – February 21, 2018, Atlanta | [Register](#)
- Real-Time Planning Standards Efficiency Review Team Meeting – February 22, 2018, Atlanta | [Register](#)
- **NEW** Project 2016-02 – Modifications to CIP Standards Drafting Team Conference Call – Noon–2:00 p.m. Eastern, February 22, 2018, | [Register](#)
- **NEW** Project 2016-02 – Modifications to CIP Standards Drafting Team Conference Call – Noon–1:30 p.m. Eastern, February 23, 2018, | [Register](#)
- Project 2017-04 – Periodic Review of Interchange Scheduling and Coordination Standards Team Meeting – February 27–March 1, 2018, Dallas, TX | [Register](#)
- Project 2016-02 – Modifications to CIP Standards Drafting Team Meeting – March 27–29, 2018, Atlanta | [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 Desselle](#) 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](#).

If you would like to receive this bulletin or be added to the distribution list for a particular project, please contact [Sandy Shiflett](#). For more information about any of the compliance news listed in the bulletin, please contact [Tiffany Whaley](#).