



Reliability Compliance Update

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August 2022
NERC Compliance

| Standards | Project | Action | End Date |
|-----------|---|---|--|
| BAL-003 | <p>Project 2017-01 Modifications to BAL-003 Phase II</p> <p>Background: The scope of the Phase II work will be to</p> <ol style="list-style-type: none"> 1. Revise the Reliability Standard to address the Real-time aspects of Frequency Response necessary to maintain reliability, 2. Ensure comparability of and applicability to the appropriate responsible entities, 3. Develop measurements to incorporate Real-time and resource and load characteristics, and 4. Ensure equitability of performance measurement. | <p>Join Ballot Pools</p> <p>Comment Period & Ballot Period</p> | <p>08/23/22</p> <p>09/07/22</p> |

| Standards | Project | Action | End Date |
|-----------|--|--|------------------------|
| EOP-012 | <p>Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination</p> <p>Purpose/Industry Need: To address the ten recommendations for new or enhanced NERC Reliability Standards proposed by the Joint Inquiry Report. Project is in two phases, current Phase I to address the following recommendations from the report:</p> <p>Key Recommendations</p> <p>(New Standard EOP-012-1 Extreme Cold Weather Preparedness & Operations)</p> <ul style="list-style-type: none"> 1d. Corrective Action Plans for Freeze-Related Causes 1e. Annual Training on Cold Weather Plans 1f. Operate to Specified Ambient Temperature, Weather <p>(Revisions to EOP-011-3 Emergency Operations)</p> <ul style="list-style-type: none"> 1j. Overlap of Manual and Automatic Load Shed/UFLS | <p>Comment Period & Ballot Period</p> | <p>09/01/22</p> |

Passed first ballot and not included in this update

| Projects | Announcement | Action | End Date |
|--|---|------------------------------|------------------------|
| 2017-01 2019-04 2020-02 2020-04 2020-06 2021-01 2021-02 2021-03 2021-04 2021-05 2021-06 2021-07 2021-08 2022-01 2022-02 2022-03 | <p><u>Draft 2023-2025 Reliability Standards Development Plan (RSDP)</u></p> <p>Background: The 2023-2025 RSDP provides insight into standards development activities anticipated at the time of publication so that stakeholders may make available appropriate resources to support the identified standards development objectives. Additional activities, such as Requests for Interpretation and development of Regional Variances, may impact the plan, which is a snapshot of activities anticipated for the 2023-2025 period. In order to help the industry understand resource requirements for each project, the RSDP now shows timeframes and anticipated resources for each project under development.</p> <p>NERC staff to consider all industry comments received during this posting. Link to comment form: https://www.nerc.com/pa/Stand/Standards%20Development%20Plan%20Library/2023-2025%20RSDP_Unofficial_Comment_Form_July2022.docx</p> | <p>Comment Period</p> | <p>08/24/22</p> |



NERC Reliability Guideline Drafts – request for comments

Due by August 13, 2022:

- Parameterization of the DER_A Model for Aggregate DER

Due by August 20, 2022:

- Performance, Modeling, and Simulations of BPS-Connected Battery Energy Storage Systems and Hybrid Power Plants

Links to documentation included in the Appendix of this presentation

- Save the Date for 2022 NERC-NATF-EPRI Annual Transmission Planning and Modeling Workshop
 - NERC, the North American Transmission Forum (NATF), and the Electric Power Research Institute (EPRI) will be holding their annual transmission planning and modeling workshop on November 2–3, 2022. This year’s theme will be “Grid Transformation: The Change is Here,” focusing on the future of power system studies, industry planning practices in the face of extreme weather events, and leveraging emerging technologies such as cloud computing and machine learning for reliability studies.

Event will be held virtually, and more details will be announced closer to the workshop.

- Save the Date for Monitoring and Modeling Awareness Technical Conference
 - The conference will have presentations from entities across North America and present data from NERC's event analysis process to identify trends and lessons learned from events across different vendors, EMS platforms, and Interconnections.
 - Session 1: 1:00–3:00 p.m. Eastern | September 22, 2022
 - Session 2: 1:00–3:00 p.m. Eastern | October 6, 2022
 - Session 3: 1:00–3:00 p.m. Eastern | October 20, 2022

Event will be held via WebEx, and detailed information and registration will be published at the end of August 2022.

- Reliability*First* (RF)
 - Technical Talks with RF
 - August 15, 2022 2:00 p.m. – 3:30 p.m.
 - September 19, 2022 2:00 p.m. – 3:30 p.m.
 - RF Fall Workshops – September 27 & 28, 2022
 - This year's theme is ***Embracing the Transformation***
 - The workshop will be held virtually and in-person (limited to 125 RF Registered Entity guests)
 - September 27, 2022 1:00 p.m. – 5:00 p.m.
 - September 28, 2022 8:00 a.m. – 12:00 p.m.

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Appendix



Draft Reliability Guidelines/Comment Form Links

- Draft Reliability Guideline: Performance, Modeling, and Simulations of BPS-Connected Battery Storage Systems and Hybrid Power Plants:
https://www.nerc.com/comm/RSTC_Reliability_Guidelines/Reliability_Guideline_BESS_Hybrid_Performance_Modeling_Studies_r edline_June_16_2022.pdf
- Link to Comment Form:
https://www.nerc.com/comm/RSTC_Reliability_Guidelines/Copy_of_Comment_Matrix_IRPTF_Performance, Modeling, and Simulations_of_BPS-Connected_Battery_Energy_Storage_Systems_and_Hybrid_Power_Plants.xlsx
- *****
- Draft Reliability Guideline: Parameterization of the DER_A Model for Aggregate DER:
https://www.nerc.com/comm/RSTC_Reliability_Guidelines/Reliability_Guideline_ModelingMerge_clean.pdf
- Link to Comment Form:
https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.nerc.com%2Fcomm%2FRSTC_Reliability_Guidelines%2FReliability_Guideline_Parameterization_of_the_DER_A_Model_for_Aggregate_DER_Comment_Matrix.xlsx



U.S. Effective Dates (future) of NERC Standards

| Effective Date | Standards |
|-----------------|--|
| 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) |



U.S. Effective Dates (future) of NERC Standards

| Effective Date | Standards |
|-----------------|---|
| April 1, 2023 | EOP-011-2 Emergency Preparedness and Operations IRO-010-4 Reliability Coordinator Data Specification & Collection TOP-003-5 Operational Reliability Data |
| July 1, 2023 | TPL-001-5.1 Transmission System Planning Performance Requirements I 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, 11.3.1-11.3.2, 11.4, 11.4.3-11.4.3, 11.5, and 11.5.1) |



U.S. Effective Dates (future) of NERC Standards

| Effective Date | Standards |
|----------------|---|
| April 1, 2024 | 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 |

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