



Reliability Compliance Update

Becky Davis
June 2022
NERC Compliance

Standards	Project	Action	End Date
EOP-011 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 	Join Ballot Pools	06/02/22
		Formal Comment Period & Ballot Period	06/17/22

Commenting and Balloting:

- Revisions to EOP-011-3 Emergency Operations
- New Standard EOP-012-1 Extreme Cold Weather Preparedness and Operations
 - Requirements R1, R2, R4, and R6 are new Requirements
 - Requirements R3 and R5 are carried over from EOP-011-2 with some revisions
- Implementation Plan

Standards	Project	Action	End Date
MOD-026 MOD-027	<p>Project 2020-06 Verifications of Models and Data for Generators I Reliability Standard MOD-026-2</p> <p>Background: Reliability Standard MOD-026-2 will replace MOD-026-1 and MOD-027-1. MOD-026-2 includes requirements for verifying dynamic models, which are used in planning studies to ensure BES reliability. The new version of MOD-026-2 adds a requirement for Applicable Entities to provide verified electromagnetic transient (EMT) models and adds clarifications for inverter based resource Facilities.</p> <p>There are two Standard Authorization Requests supporting this Project to address inverter-based resources and transmission connected dynamic reactive resources.</p>	Join Ballot Pools	06/21/22
		Comment Period & Ballot Period	07/06/22

➤ ReliabilityFirst

➤ Technical Talks with RF

- June 20, 2022 10:00 a.m. – 11:00 a.m.
- July 18, 2022 2:00 p.m. – 3:30 p.m.

➤ RF CUG Meeting

- June 24, 2022 10:00 a.m. – 12:00 p.m.
 - CUG = Compliance Users Group

SME/Presenter:
Elizabeth (Becky) Davis
Elizabeth.Davis@pjm.com
Regional_compliance@pjm.com



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

Appendix

Project 2021-07 project page: <https://www.nerc.com/pa/Stand/Pages/Project-2021-07-ExtremeColdWeather.aspx>

EOP-011-3 redline: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Initial%20Ballot_EOP-011-3_redline_051922.pdf

EOP-011-3 clean: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Initial%20Ballot_EOP-011-3_clean_051922.pdf

EOP-012-1 redline: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Initial%20Ballot%20EOP-012-1_redline_051922.pdf

EOP-012-1 clean: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Initial%20Ballot_EOP-012-1_clean_051922.pdf

Implementation Plan: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Implementation%20Plan_051922.pdf

EOP-011-3 Technical Rationale: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Draft%20Technical%20Rationale%20for%20EOP-011-3_051922.pdf

EOP-012-1 Technical Rationale: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07%20Draft%20Technical%20Rationale%20for%20EOP-012-1_051922.pdf

Comment Form: https://www.nerc.com/pa/Stand/Project202107ExtremeColdWeatherDL/2021-07_Unofficial_Comment_Form_051922.docx

Project 2020-06 project page: https://www.nerc.com/pa/Stand/Pages/Project-2020_06-Verifications-of-Models-and-Data-for-Generators.aspx

MOD-026-2: https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_MOD-026-2_Draft_1_clean_05202022.pdf

Implementation Plan: https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_MOD-026-2_Implementation_Plan_05202022.pdf

Comment Form: https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_Unofficial_Comment_Form_05202022.docx

VRF/VSL Justifications: https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_MOD-026-2_VRF_VSL_Justifications_05202022.pdf

Mapping Document: https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_Mapping_Document_05202022.pdf

Technical Rationale: https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020-06_MOD-026-2_Technical_Rationale_05202022.pdf

Standard Authorization Request (IBR):
https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020_06%20IBR%20SAR%20clean_072021.pdf

Standard Authorization Request (transmission-connected dynamic reactive resources):
https://www.nerc.com/pa/Stand/Project_2020_06_Verifications_of_Models_and_Data_f/2020_06%20TCDRR%20SAR%20clean_072021.pdf



U.S. Effective Dates of NERC Standards

Effective Date	Standards
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)



U.S. Effective Dates 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 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 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

**PROTECT THE
POWER GRID
THINK BEFORE
YOU CLICK!**



Be alert to
malicious
phishing emails.

Report suspicious email activity to PJM.
(610) 666-2244 / it_ops_ctr_shift@pjm.com

