



NERC and Regional Coordination Update



Reliability Standards and Compliance Subcommittee
Preston Walker
July 21, 2017



NERC Standards Under Development

Standards	Project	Activity	Due Date
PER-003-1 PER-004-2	<p>Project 2017-02 – Modifications to PER Standards Standard Authorization Request</p> <p>Applicability: RC, TOP, BA</p> <p>Purpose: To ensure stakeholders understand: (1) the connection between the Standard and the Program Manual (2) the certifications referenced under PER-003-1 are those under the NERC System Operator Certification Program. The PER-004-2 standard falls within Paragraph 81 Criterion B7 and should be retired.</p> <p>PJM Position: PJM agrees with the suggestions and will continue to monitor this project moving forward.</p>	Comments	7/24/2017



NERC Standards Under Development

Standards	Project	Activity	Due Date
PRC-006-SERC-02	SERC RELIABILITY STANDARD PRC-006-SERC-02 AUTOMATIC UNDER FREQUENCY LOAD SHEDDING REQUIREMENTS Applicability: PC, TO, GO, DP Purpose: Revisions include: <ul style="list-style-type: none">• Definition for PC area added to provide clarity• Removed the term 'distribution' from R4.1 and R5.1 to prevent the misinterpretation that only distribution load can be used for a UFLS scheme.• Added to R2.1, 4.1 and 5.1 the flexibility for the PC to choose the peak season on which to base the UFLS plan. PJM Position: PJM agrees with the suggestions and will continue to monitor this project as it moves forward.	Comments	7/24/2017



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	<p>Draft Reliability Guideline: Distributed Energy Resource Modeling</p> <p>Purpose:</p> <p>Developed as a result of the penetration of distributed energy resources (DER), which continues to increase across the North American footprint. Transmission Planners (TPs) and Planning Coordinators (PCs) are faced with the challenge of representing these resources connected at the distribution system with relatively newer and evolving models.</p> <p>PJM Position:</p> <p>Currently, PJM agrees with the suggestions and will continue to monitor this project as it moves forward.</p>	Comments	7/28/2017



NERC Standards Under Development

Standards	Project	Activity	Due Date
	<p>Proposed Revisions to the NERC Rules of Procedure Appendix 3D</p> <p>Applicability: Registered Ballot Body</p> <p>Purpose:</p> <ul style="list-style-type: none">• Appendix 3D details the Registered Ballot Body Criteria.• The Registered Ballot Body is the aggregation of all entities or individuals that qualify for one of the Segments approved by the Board of Trustees and are registered with NERC as potential ballot participants in the voting on proposed Reliability Standards.• At the request of stakeholders, the purpose of these revisions is to help ensure that the votes of the Independent System Operators and Regional Transmission Organizations are appropriately represented in the Registered Ballot Body voting structure.	Comments	8/10/2017



NERC Standards Under Development

Standards	Project	Activity	Due Date
TPL-007-2	Project 2013-03 Geomagnetic Disturbance Mitigation TPL-007-2 Applicability: PC, TP, TO, GO Purpose: Revisions include: <ul style="list-style-type: none">• Modify the benchmark GMD event definition used for GMD Vulnerability Assessments• Make related modifications to requirements pertaining to transformer thermal impact assessments• Require collection of GMD-related data. NERC is directed to make data available; and• Require deadlines for Corrective Action Plans (CAPs) and GMD mitigating actions. PJM Position: PJM agrees with the proposed changes and will monitor SRC activity.	Comments Ballots	8/11/2017



NERC Standards Under Development

Standards	Project	Activity	Due Date
	<p data-bbox="243 443 1444 483">Integrating Inverter-based Resources into Weak Power Systems</p> <p data-bbox="243 500 420 540">Purpose:</p> <p data-bbox="243 565 1619 743">A comment period is open for the draft Reliability Guideline on Integrating Inverter-based Resources into Weak Power Systems. This guideline provides the industry with background and useful reference information pertaining to the topics of:</p> <ul data-bbox="243 768 1640 914" style="list-style-type: none">• identifying weak grid conditions and• potential issues that may arise from weak grids when connecting or operating inverter-based resources. <p data-bbox="243 938 1598 1068">The goal is to proactively provide the industry with information for their consideration as they face this emerging issue and increasing penetrations of inverter-based resources.</p>	<p data-bbox="1686 443 1864 483">Comments</p>	<p data-bbox="1896 443 2053 483">8/25/2017</p>



NERC Standards Subject to Future Enforcement

- **October 1, 2017**
 - COM-001-3 – Communications
 - M-01 Revisions (PJM Internal, and TO Internal Communications)
 - IRO-002-5 – Reliability Coordination – Monitoring and Analysis
- **January 1, 2018**
 - BAL-002-2 – Disturbance Control Standard – Contingency Reserve for Recovery from a Balancing Contingency Event
 - PRC-026-1 – Relay Performance During Stable Power Swings (R1)
- **April 1, 2018**
 - IRO-018-1(i) – Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities
 - TOP-010-1 – Real-time Reliability Monitoring and Analysis Capabilities



NERC Standards Subject to Future Enforcement

➤ July 1, 2018

- MOD-026-1 – Verification of Models and Data for Generator Excitation Control System or Plant Volt/VAR Control Functions (R2, R2.1 – R2.1.6)
- MOD-027-1 – Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions (R2, R2.1 – R2.1.5)
- TOP-001-4 – Transmission Operations
- TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R2)

➤ January 1, 2019

- TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R5)

➤ January 1, 2021

- PRC-026-1 – Relay Performance During Stable Power Swings (R2 - R4)
- TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R6)

➤ January 1, 2022

- TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R3, R4, R7)



Questions?

Preston Walker
NERC & Regional Coordination
(610) 635-3096
Preston.Walker@pjm.com