



Reliability Compliance Update

Reliability Standards and Compliance Subcommittee
Preston Walker
April 12, 2019



NERC Projects

| Standards | Project | Action | End Date |
|---|--|------------------------------|--------------------------|
| BAL-005-1 COM-002-4 EOP-005-3 EOP-006-3 FAC-008-3 FAC-013-2 INT-004-3.1 INT-006-4 INT-009-2.1 INT-010-2.1 IRO-002-5 IRO-008-2 IRO-014-3 IRO-017-1 MOD-004 - 020 PRC-004-5(i) PRC-015-1 PRC-018-1 TOP-001-4 VAR-001-5 | <p>Project 2018-03 Standards Efficiency Review Retirements</p> <p>Applicability: BA, GO, GOP, RC, PC, TP, TO, TOP</p> <p>Background:</p> <ul style="list-style-type: none"> ➤ The SAR drafting team evaluated NERC Standards using a risk-based approach to identify potential efficiencies through retirement or modification of Reliability Standard Requirements. ➤ Many Reliability Standards have been mandatory and enforceable for 10+ years in North America. ➤ The SAR drafting team identified potential candidate requirements that are not essential for reliability, could be simplified or consolidated, and could thereby reduce regulatory obligations and/or compliance burden. | <p>Ballot Comment</p> | <p>04/12/2019</p> |



| Standards | Project | Action | End Date |
|--|--|---------|----------|
| BAL-003-1.1 MOD-027-1 MOD-032-1 PRC-006-3 | <p>Draft Reliability Guideline: Application Guide for Modeling Turbine Governor and Active Power Frequency Controls in Stability Studies</p> <p>Applicability: GO, GOP, TP, PC</p> <p>Background:</p> <ul style="list-style-type: none"><li>➤ The NERC Power Plant Modeling and Verification Task Force (PPMVTF) developed the this Guideline to address potential issues in stability and primary frequency response simulations that can arise from application of turbine-governor models.<li>➤ The guideline recommends modeling practices to address turbine-governor model fidelity issues, including parameterization, deadband modeling, and modeling of non-responsive units.<li>➤ The guidance is intended to clarify key aspects of how turbine-governor models are applied in an effort to improve the accuracy of interconnection-wide simulations. | Comment | 04/26/19 |

➤ **Workshops**

- NERC–NATF–EPRI 2019 Power System Modeling Conference Workshop – June 18–19, 2019, Novi, MI



NERC Standards Subject to Future Enforcement

➤ April 1, 2019

- BAL-002-3 – Disturbance Control Standard – Contingency Reserve for Recovery from a Balancing Contingency Event
- 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

➤ July 1, 2019

- PER-003-2 – Operating Personnel Credentials
- TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R1, R2)

➤ January 1, 2020

- PRC-026-1 – Relay Performance During Stable Power Swings (R2 - R4)

➤ July 1, 2020

- PRC-002-2 – Disturbance Monitoring and Reporting Requirements (50% compliance for R2–4, 6–11)



NERC Standards Subject to Future Enforcement

➤ **January 1, 2021**

- TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R6)
- PRC-012-2 – Remedial Action Schemes

➤ **January 1, 2022**

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

➤ **July 1, 2022**

- PRC-002-2 – Disturbance Monitoring and Reporting Requirements (50% compliance for R2–4, 6–11)



Questions?

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