Reliability Compliance Update

Reliability Standards and Compliance Subcommittee
Preston Walker
June 15, 2018
Purpose:
The Inverter-Based Resource Performance Task Force (IRPTF) developed this guideline to address potential reliability impacts of the changing resource mix connected to the Bulk Power System.

This guideline specifies recommended steady state and dynamic performance for inverter-based resources, and also covers a wide range of related aspects from protective functions to monitoring capability. The material presented throughout this guideline is based on extensive discussions with industry experts and members of the IRPTF.
**Standards Authorization Request (SAR): Standards Efficiency Review**

**Purpose:**
The Standards Efficiency Review (SER) team used a risk-based approach to evaluate the reliability benefit of each NERC Reliability Standard Requirement. Based on its analyses, the SER team is recommending the retirement of several Requirements. According to NERC, retiring these Requirements will increase efficiencies by reducing regulatory obligations and/or compliance burden.

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<th>Standards</th>
<th>Project</th>
<th>Action</th>
<th>End Date</th>
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<tr>
<td>Standards Authorization Request (SAR): Standards Efficiency Review</td>
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<td>Comment</td>
<td>07/26/2018</td>
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## Draft Reliability Guideline: Power Plant Model Verification for Inverter-Based Resources

**Purpose:**
The NERC Power Plant Modeling and Verification Task Force (PPMVTTF) developed this guideline to support recommendations in the ERO Risk Priorities Report to address potential reliability impacts of the changing resource mix. The guideline covers many of the potential tests that may be needed to develop or verify dynamic models related to the activities of MOD-026-1 and MOD-027-1. The material presented is applicable to Generator Owners, Generator Operators, Planning Coordinators, Transmission Planners, Transmission Operators, Reliability Coordinators, testing engineers, and other subject matter experts of the NERC MOD Standards pertaining to model verification and capability testing.

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<th>Standards</th>
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<td>MOD-026-1</td>
<td>Draft Reliability Guideline: Power Plant Model Verification for Inverter-Based Resources</td>
<td>Comment</td>
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<td>MOD-027-1</td>
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Announcements
- Jim Robb, former WECC CEO, appointed to CEO of NERC

Workshops
- Power System Modeling Conference – June 20–21, 2018, New Albany, Ohio
- NERC Standards and Compliance Workshop – July 24–25, 2018, Columbus, Ohio
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**
  - BAL-005-1 – Balancing Authority Control
  - TPL-007-1 – Transmission System Planned Performance for Geomagnetic Disturbance Events (R5)

- **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
NERC Standards Subject to Future Enforcement

- **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)

- **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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