NERC and Regional Coordination Update

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Planning Committee
January 12, 2017
### Project 2013-03 Geomagnetic Disturbance Mitigation

On September 22, 2016, FERC issued [Order No. 830](#) approving Reliability Standard TPL-007-1 - Transmission System Planned Performance for Geomagnetic Disturbance Events. In the order, FERC directed NERC to develop certain modifications to the Standard, or to develop other new or revised Standards. The revisions include:

- 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.

FERC established a deadline of 18 months from the effective date of Order No. 830 for completing the revisions, which is May 2018.

<table>
<thead>
<tr>
<th>Standards</th>
<th>Project</th>
<th>Activity</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAR TPL-007-2</td>
<td><strong>Project 2013-03 Geomagnetic Disturbance Mitigation</strong></td>
<td>Informal Comments</td>
<td>1/20/2017</td>
</tr>
</tbody>
</table>
NERC Glossary of Terms
NERC updated Glossary of Terms on with a new format. It is now divided into four sections and each section is organized in alphabetical order. The new sections are:

1. Subject to Enforcement
2. Pending Enforcement
3. Retired Terms
4. Regional Definitions

The reference provides links to associated project page, acronyms, Board of Trustees adoption dates, FERC approval dates, effective dates, and definitions.
NERC Standards Subject to Future Enforcement

- April 1, 2017
  - EOP-004-3 – Event Reporting
  - EOP-010-1 – Geomagnetic Disturbance Operations (R2)
  - EOP-011-1 – Emergency Operations
  - FAC-010-3 - System Operating Limits Methodology for the Planning Horizon
  - FAC-011-3 - System Operating Limits Methodology for the Operations Horizon
  - IRO-001-4 – Reliability Coordination – Responsibilities
  - IRO-002-4 - Reliability Coordination — Monitoring and Analysis
  - IRO-008-2 – Reliability Coordinator Operational Analyses and Real-time Assessments
  - IRO-010-2 – Reliability Coordinator Data Specification and Collection (R3)
  - IRO-014-3 — Coordination Among Reliability Coordinators
  - IRO-017-1 — Outage Coordination
  - MOD-029-2a – Rated System Path Methodology
  - MOD-030-3 – Flowgate Methodology
NERC Standards Subject to Future Enforcement

- April 1, 2017 (continued)
  - PRC-010-1 – Undervoltage Load Shedding
  - PRC-015-1 - Remedial Action Scheme Data and Documentation
  - PRC-016-1 - Remedial Action Scheme Misoperations
  - PRC-017-1 - Remedial Action Scheme Maintenance and Testing
  - PRC-023-4 - Transmission Relay Loadability
  - TOP-001-3 – Transmission Operations
  - TOP-002-4 – Operations Planning
  - TOP-003-3 – Operational Reliability Data (R5)

- April 2, 2017
  - PRC-004-5(i) - Protection System Misoperation Identification and Correction
  - PRC-010-2 – Undervoltage Load Shedding
NERC Standards Subject to Future Enforcement

- July 1, 2017
  - MOD-033-1 - Steady-State and Dynamic System Model Validation
  - TPL-007-1 - Transmission System Planned Performance for Geomagnetic Disturbance Events (R1)

- October 1, 2017
  - COM-001-3 – Communications

- January 1, 2018
  - PRC-026-1 – Relay Performance During Stable Power Swings (R1)

- April 1, 2018
  - IRO-018-1 – Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities
  - 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 (Requirements 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)
  - 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)