NERC and Regional Coordination Update

Preston Walker
NERC and Regional Coordination
Planning Committee
June 8, 2017
### NERC Standards Under Development

<table>
<thead>
<tr>
<th>Standards</th>
<th>Project</th>
<th>Activity</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAL-502-RF-03</td>
<td><strong>Comment Period Open for Regional Reliability Standard BAL-502-RF-03:</strong></td>
<td>Comments</td>
<td>6/12/17</td>
</tr>
</tbody>
</table>

ReliabilityFirst has requested that NERC post Regional Reliability Standard BAL-502-RF-03 – Planning Resource Adequacy Analysis, Assessment and Documentation for industry review and comment as permitted by the NERC Rules of Procedure.

PJM participated in the drafting of this Standard and will not submit comments.
This guideline focuses primarily on the load composition aspect of dynamic load modeling, and also describes some aspects of dynamic load modeling such as motor performance, protection modeling, and performing sensitivity studies. The guideline provides insights and examples of how to develop load model composition data from various data sources, classify that data, and convert that information into load model parameter values.
## Draft Reliability Guideline: Forced Oscillation Monitoring and Mitigation

The intent of this guideline is to provide guidance and awareness for identifying and mitigating forced oscillations on the bulk power system. The guideline describes the fundamental behavior of forced oscillations and how they differ from natural system oscillations such as local, inter-area, intra-plant, or torsional oscillations. It also highlights the use of synchronized measurement data from phasor measurement units (PMUs) and other dynamic disturbance recorders (DDRs) for oscillation monitoring and analysis.
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
    - M-01 Revisions (PJM Internal, and TO Internal Communications)
    - IRO-002-5 – Reliability Coordination – Monitoring and Analysis

- **January 1, 2018**
  - 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