FERC, NERC, and Regional Activities

Becky Davis
PJM Reliability Compliance
Reliability Standards & Compliance Subcommittee
January 15, 2021
Background:

- Facilities Design, Connections, and Maintenance (FAC) standards fulfill an important reliability objective for determining and communicating System Operating Limits (SOLs) used in the reliable planning and operation of the Bulk Electric System (BES). This project was initiated to consider and implement the recommendations for Reliability Standard retirements (per the applicable SAR). The SDT proposed retiring Requirements R7 and R8 in FAC-008-3 as redundant and not needed for reliability. Proposed FAC-008-4 passed ballot and NERC BOT in May 2019.

- On September 17, 2020, FERC issued Order No. 873. With respect to proposed FAC-008-4, FERC determined that the retirement of Requirement R7 would be appropriate, but rejected the retirement of Requirement R8 (R8 is needed to ensure that limiting and next limiting equipment is identified and communicated).

- Proposed Reliability Standard FAC-008-5 would retire Requirement R7 of currently effective Reliability Standard FAC-008-3.
Background:

- The NERC Inverter-based Resource Performance Task Force (IRPTF) performed a comprehensive review of all NERC Reliability Standards to determine potential gaps. The IRPTF identified several issues as part of this effort and documented its findings and recommendations in a white paper. The "IRPTF Review of NERC Reliability Standards White Paper" was approved by the Operating Committee and the Planning Committee in March 2020. Among the findings noted in the white paper, the IRPTF identified issues with MOD-026-1 and MOD-027-1 that should be addressed.

- MOD-026-1 and MOD-027-1 require, among other things, Generator Owners to provide dynamic models to their Transmission Planner for the purposes of power system planning studies. Both standards contain language that is specific to synchronous generators that is not applicable to IBRs. The IRPTF recommended revisions to clarify the applicable requirements for synchronous generators and IBRs. As such, the SAR proposes revisions to MOD-026-1 and MOD-027-1 to clarify requirements to IBRs and to require sufficient model verification to ensure accurate generator representation in dynamic simulations.
Performance, Modeling, and Simulations of BPS-Connected Battery Energy Storage Systems (BESSs) and Hybrid Power Plants Draft Reliability Guideline

Background:

- The NERC Inverter-Based Resource Performance Working Group (IRPWG) developed the Performance, Modeling, and Simulations of BPS-Connected Battery Energy Storage Systems (BESSs) and Hybrid Power Plants Draft Reliability Guideline. The guideline also covers recommended modeling and study practices that should be considered by Transmission Planners and Planning Coordinators as they perform planning assessments with increasing numbers of BESSs and hybrid power plants in the interconnection study process, annual planning process, and for any specialized studies needed to ensure BPS reliability. The performance characteristics should be considered by all Generator Owners and developers seeking interconnection to the BPS, and Transmission Owners, Transmission Planners, and Planning Coordinators should consider adopting these recommendations in the interconnection requirements per NERC FAC-001 and FAC-002 standards.
• NERC
  – Extending work from home until June 2021
  – Extending Self-Logging Program Expansion and Deferment of On-Site Activities until June 30, 2021
  – Compliance Guidance Update: TOP-001-4 & IRO-002-5 Data Exchange Infrastructure and Testing (NERC OC)
    • NERC Implementation Guidance and CMEP Practice Guides
  – 2021 RISC Reliability Leadership Summit
  – NERC filed with FERC a petition for approval of an errata to Standard FAC-001-3
NERC & Regional News

• SERC
  – January 2021 Newsletter
  – 2021 Open Forum 1 January 26, 2021

• ReliabilityFirst (RF)
  – Technical Talks with RF
    • January 25, 2021
    • February 22, 2021
    • March 15, 2021

Both are one week later than normal to accommodate MLK Jr. Day and President’s Day
## U.S. Effective Dates of NERC Standards

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<td>April 1, 2021</td>
<td>FAC-002-3 Facility Interconnection Studies</td>
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| April 1, 2021 | PRC-004-6 Protection System Misoperation Identification and Correction  
PRC-006-4 Automatic Underfrequency Load Shedding  
PRC-027-1 Coordination of Protection System for Performance During Faults  
PRC-001-1 System Protection Coordination (retirement)  
TOP-001-5 Transmission Operations  
TOP-003-4 Operational Reliability Data |
| July 1, 2021  | TPL-007-4 Transmission System Planned Performance for Geomagnetic Disturbance Events (R12 & R13) |
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