



Reliability Compliance Update

Becky Davis

January 2021

PJM Reliability Compliance

Standards	Project	Action	End Date
FAC-008-5	<p data-bbox="290 291 1607 334"><u>Project 2018-03</u> Standards Efficiency Review Retirements</p> <p data-bbox="290 405 596 448">Background:</p> <ul data-bbox="290 462 2002 1176" style="list-style-type: none"> <li data-bbox="290 462 2002 805">➤ 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. <li data-bbox="290 848 2002 1048">➤ 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). <li data-bbox="290 1076 2002 1176">➤ Proposed Reliability Standard FAC-008-5 would retire Requirement R7 of currently effective Reliability Standard FAC-008-3. 	<p data-bbox="2035 319 2275 462">Comments and Ballot Close</p>	<p data-bbox="2290 376 2527 419">01/13/2021</p>

Standards	Project	Action	End Date
MOD-026-1 MOD-027-1	<p data-bbox="290 287 1862 339"><u>Project 2020-06</u> Verifications of Models and Data for Generators SAR</p> <p data-bbox="290 401 596 454">Background:</p> <ul data-bbox="290 458 2002 1243" style="list-style-type: none"> <li data-bbox="290 458 2002 801">➤ 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. <li data-bbox="290 843 2002 1243">➤ 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. 	<p data-bbox="2035 262 2275 411">Informal Comment Period</p> <p data-bbox="2035 468 2275 611">Drafting Team Nominations</p>	<p data-bbox="2290 262 2527 315">01/14/2021</p>

Standards	Project	Action	End Date
Draft Guideline	<p data-bbox="293 285 2012 449"> <u>Performance, Modeling, and Simulations of BPS-Connected Battery Energy Storage Systems (BESSs) and Hybrid Power Plants Draft Reliability Guideline</u> </p> <p data-bbox="293 514 598 564">Background:</p> <ul data-bbox="293 571 2012 1170" style="list-style-type: none"> ➤ 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. 	<p data-bbox="2025 264 2267 357"> Comments via email </p>	<p data-bbox="2280 264 2522 314"> 02/01/2021 </p>

- NERC
 - Extending work from home until June 2021
 - ReliabilityFirst
 - 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

➤ January 1, 2021

- Rev PRC-002-2 – Disturbance Monitoring and Reporting Req (50% compliance for R2-R4, R6-R11)
- PRC-012-2 – Remedial Action Schemes (R1-R3, R5-R7)
- Rev PRC-025-2 – Generator Relay Loadability (phased-in implementation of Attachment 1: Relay Settings, Table 1 Options 5b, 14b, 15b, and 16b)

➤ April 1, 2021

- INT-006-5 – Evaluation of Interchange Transactions
- INT-009-3 — Implementation of Interchange
- IRO-002-7 - Reliability Coordination - Monitoring and Analysis
- Rev PER-006-1 – Specific Training for Personnel
- Rev PRC-001-1 - System Protection Coordination – Retirement (R1, R3, R4)
- PRC-004-6 — Protection System Misoperation Identification and Correction
- Rev PRC-027-1 – Coordination of Protection Systems for Performance During Faults
- TOP-001-5 – Transmission Operations

➤ July 1, 2021

- TPL-007-3 –Transmission System Planned Performance for Geomagnetic Disturbance Events (R11&12)

SME/Presenter:
Elizabeth (Becky) Davis
Elizabeth.Davis@pjm.com
Reliability_compliance@pjm.com



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com