Reliability Compliance Update

Gizella Mali & Becky Davis,
Sr. Lead Analysts, FERC & Reliability Compliance

Planning Committee
July 7, 2026

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

PJM©2026

STANDARD: **PRC-029-1**	**Project 2025-05 Ride-Through Revisions**

PROJECT BACKGROUND:	Action	End Date
Purpose The draft PRC-029-2 redlines introduce a narrow technical exception in Attachment 1, Item 12. This provision exempts Voltage Source Converter (VSC)-HVDC-connected Inverter-Based Resources from the cumulative voltage Ride-through mandates of Items 7, 8, and 9—specifically the 10-second rolling window—recognizing that the energy absorption capability of DC choppers is thermally finite. Eligibility for this exception requires a hardware capability floor where the chopper can dissipate the VSC-HVDC system's rated power for at least 2 seconds. Furthermore, the Generator Owner (GO) must document these thermal limits and coordinate "mutually agreed operational measures" with the Transmission Owner (TO) and Transmission Operator (TOP). Unofficial Comment Form (Word)	**Additional Ballots and Non-Binding Poll** **Comments**	**7/3/26-7/13/26** **7/13/26**

PJM©2026

STANDARD: FAC-011-5 TOP-003-9	Project 2025-03 Order No. 901 Operational Studies

PROJECT BACKGROUND:	Action	End Date
Purpose This project will address FERC Order No. 901 directives related to the inclusion of IBR performance and behavior in operational assessments and real-time monitoring of individual IBR plants (i.e., individual IBR) as well as IBR plants in the aggregate across an operator's footprint (i.e., IBR in the aggregate). Further, the drafting team will address the similar FERC Order No. 901 directives to include aggregate DERs in operational assessments and real-time monitoring.	**Join Ballot Pools**	**7/13/26**
	Initial /Additional Ballots and Non-Binding Poll	**7/22/26-7/3126**
Unofficial Comment Form - FAC-011-5 Unofficial Comment Form - TOP-003-9	**Comments**	**7/31/26**

PJM©2026

IBR Small Group Advisory Session (SGAS - PRC-028-1, PRC-029-1, PRC-030-1, and MOD-026-2)

NERC, in collaboration with the Regional Entities, will host a Small Group Advisory Session (SGAS) for registered entities to discuss the Inverter-Based Resources (IBRs) related Standard Requirements with mandatory compliance dates in 2026 and 2027.

1. **Monday, August 10, 2026, from 2:00–3:30 p.m. ET**. General Session Live Webinar (**Registration**) – Discussions on current and future phased implementation of the NERC Reliability Standards for IBRs.
2. **Tuesday, August 11, 2026 – Friday, August 14, 2026, One-on-One Sessions** – Closed, one-on-one discussions between a registered entity and ERO Enterprise (collectively NERC and Regional Entities) staff about issues pertinent to their compliance with the Reliability Standards for IBRs. NERC will schedule the one-on-one sessions after registration is received and is coordinated with Regional Entity staff on a first-come, first-serve basis.
    - NERC is requesting Generator Owners and Generator Operators provide any questions they may have relevant to their PRC-028-1, PRC-029-1, PRC-030-1, and MOD-026-2 compliance obligations **by June 30, 2026**. Questions to be sent to Charlie Cook and include “SGAS for New IBR Related Standard Requirements Questions” in the email Subject Line.

PJM©2026

2026 Registered Ballot Body Self-Select Attestation Process

June 17 – August 18, 2026

Each RBB voting member should log into **Standards Balloting and Commenting System (SBS)** and **ensure the role listed is "Voter"**. Then click this **link** to access the attestation page and complete the steps to confirm there have been no material changes in the last 12 months that affect the entity's current Segment selection(s); thus the entity continues to meet the Segment qualifications (as outlined in the qualifications in Appendix 3D: *RBB Criteria* referenced above). **Proxy Voters are not required to attest**.

NERC must receive a response for all segments represented in the RBB by 8:00 p.m. Eastern, Tuesday, August 18, 2026. Entities with segment(s) not attested for will be removed from the system. Anyone removed (un-vetted) can re-apply at any time.

PJM©2026

Updated ERO Enterprise Data Submittal Schedule

2026 ERO Enterprise Periodic Data Submittal Schedule

The 2026 ERO Enterprise Data Submittal Schedule was updated with the revised process for the submittal of Corrective Action Plan extensions and Generator Cold Weather Constraints associated with EOP-012-3. The process was updated to provide clarity around reporting timelines and communications. Additionally, a flowchart outlining the Generator Cold Weather Constraint submittal process was added.

PJM©2026

Updated CMEP Practice Guide - **Cold Weather Preparedness**

CMEP Practice Guide - Cold Weather Preparedness

Revised CMEP Practice Guide – The CMEP Practice Guide – Cold Weather Preparedness has been updated to reflect changes associated with EOP-012-3. Most notably, these changes include the addition of reference material for the evaluation of Corrective Action Plan Extensions and Generator Cold Weather Constraint submittals as well as possible examples of Generator Cold Weather Critical Components.

PJM©2026

Draft Reliability Guideline: Commissioning Best Practices for BPS-Connected Inverter-Based Resources

Commissioning Best Practices for BPS-Connected Inverter-Based Resources - Clean

Commissioning Best Practices for BPS-Connected Inverter-Based Resources - Redline

Draft White Paper: Risk Mitigation Strategies

Draft White Paper: Risk Mitigation Strategies "Electric Vehicle Task Force (EVTF) White Paper"

Comment Period: **June 18, 2026, to July 18, 2026**

For more information or assistance or to submit comments, please contact Aung Thant (Draft Reliability Guideline: Commissioning Best Practices for BPS-Connected Inverter-Based Resources) or JP Skeath (Draft White Paper: Risk Mitigation Strategies).

Comment Matrix

PJM©2026

NERC Glossary of Terms Page

The **Glossary of Terms** (Glossary) is now on its own page on the **NERC website**. It can be found in the **Standards** program area. This redesign allows for convenient access to the terms and their statuses. It has search, sort, and filter capabilities, and can be saved as a PDF in the resulting views.

The Glossary lists each term defined for use in one or more of NERC's continent-wide or Regional Reliability Standards. Like Reliability Standards, these terms are adopted by the NERC Board of Trustees and filed with FERC for approval.

PJM©2026

Reliability*First* (RF)

- Technical Talks with RF

July 13, 2026	2:00 p.m. – 3:30 p.m.
August 17, 2026	2:00 p.m. – 3:30 p.m.
September: Fall Reliability & Security Summit	
October 26, 2026	2:00 p.m. – 3:30 p.m.
November 16, 2026	2:00 p.m. – 3:30 p.m.
December 14, 2026	2:00 p.m. – 3:30 p.m.

https://www.rfirst.org/events/list/

PJM©2026

Industry Webinar - Level 3 NERC Alert Essential Actions to Industry

Computational Load Modeling, Studies, Instrumentation, Commissioning, Operations, Protection, and Control

July 8, 2026 | 2:00–4:00 p.m. Eastern

Webinar Registration

PJM©2026

Industry Webinar – Registration for Computational Loads

July 13, 2026 12:00p.m. – 1:00p.m. Eastern

The first half of the webinar will provide an update on possible changes to the initial draft criteria language released on April 1, 2026. The proposed shifts were informed by the comments received from stakeholders during the first formal comment process that concluded on May 15, 2026. Additionally, NERC staff will provide an overview of next steps in the registry criteria development process.

The second half of this webinar will provide entities that may meet the new criteria with a broader understanding of NERC registration. It will address common questions about what happens once the new registry criteria are finalized. Furthermore, it will outline the anticipated process and the key participants involved in the registration process.

Event Details Page Register for WebEx

PJM©2026

Large Loads Working Group (LLWG) Hybrid Meeting

July 16, 2026 | 8:00 – 4:00 p.m. (Mountain)

LLWG Event Details

All in-person attendees must register. Because seats are limited in the venue, please do not book travel until you receive confirmation from NERC staff that we have a seat reserved for your in-person attendance*

Priority for in-person attendance will be for LLWG members, Project 2026-02 members, and LLWG observers in that order. **Registration will remain open until 8:00 p.m. Eastern Tuesday, June 30, 2026.** Individuals are to register as early as possible. To attend in-person, you must receive confirmation from NERC Staff.

PJM©2026

Level 3 Alert & Reliability Guideline Focused on Large Load Challenges

Level 3 Essential Action Alert

Computational Load Modeling, Studies, Instrumentation, Commissioning, Operations, Protection, and Control, outlining seven actions registered entities must implement to address immediate risks posed by computational loads interfacing with the BPS. The Level 3 Alert was issued as NERC observed customer-initiated large load reductions and significant oscillations that occur in seconds, leaving little or no room for real-time responses, threatening BPS reliability.

Responses by August 3, 2026

Full Announcement

PJM©2026

NERC Alert Level 3 Essential Action

Essential Action: Identifies actions deemed to be “essential” to bulk power system reliability and requires NERC Board of Trustees' approval prior to issuance. Like recommendations, essential actions also require recipients to respond as defined in the alert.

- **The purpose of this Level 3 NERC Alert is to ensure Essential Actions are taken by registered entities to address the risks posed by existing and new computational loads interacting with the bulk power system (BPS), inclusive of computational load interconnecting with collocated generation.**
- Link: https://www.nerc.com/globalassets/programs/bpsa/alerts/level-3-computational-load-alert.pdf

PJM©2026

‘Computational Load’ NERC Alert

- Alert was sent to **TP**, **PC**, TO, **BA**, **RC**, and **TOP**
- Reporting is due August 3, 2026
- There are seven (7) Essential Actions – some with multiple items
  - Two Essential Actions are specific to TOs with coordination with TOP, BA, RC, TP, or PC
- 33 Questions – 9 Questions are TO only questions
- There is an active NERC Computational Load Project with an expected deliverable of a new Standard(s), however, the Alert is meant to implement Essential Actions as soon as reasonably possible

PJM©2026

Summary – Essential Action #1

Essential Action #1 – Transmission Planners (TPs) and Planning Coordinators (PCs) should develop a detailed list of modeling data, settings, and parameters needed from computational loads and distribute this to TOs in their footprint. TOs should reflect this in their facility interconnection requirements.

1. Electrical Size and Power Factor
2. Dynamic Characteristics
3. Compositions
4. Expected Ramp Rate
5. Protective Devices
6. On-Site Generation
7. Facility Use

PJM preliminary assessment:

- *PJM is in the process of*
  - *developing the modeling requirements per the Alert, which includes PERC1 (Power Electronic Reconnecting and Ceasing) model*
  - *study in progress to determine design functions*
- *Developing and sharing a stakeholder process*

PJM SMEs: Dave Egan (David.Egan@pjm.com) and Mazhar Ali (Mazhar.Ali@pjm.com)

Question response = All

1. Select the option to describe the workload required to implement Essential Action 1:
   A. Low effort to implement changes
   B. Significant effort to implement changes
   C. Cumbersome workload and effort to implement changes
   D. Essential Action 1 is not applicable to my entity's functional group(s)

Question response = TP and PC only

10. Do your current modeling requirements include the actions in Essential Action 1?
A. Yes
B. No, however, we plan to modify our requirements to include
C. No, and we have no plans to modify our requirements

11. If you answered "No, however, we plan to modify our requirements to include" when do you plan to implement changes to your modeling requirements to align with Essential Action 1?
A. 2026
B. 2027
C. 2028
D. Beyond 2028

PJM©2026

Summary – Essential Action #2

Essential Action #2 – TPs and PCs should study their system with additional considerations for computational loads (Evaluate System Operating Limits, instabilities, credible contingencies for aggregate loss or reduction in load).

PJM preliminary assessment:

- *Data collection from Essential Action #1 needed to process Essential Action #2 and plan to include in stakeholder process as mentioned in prior slide*
- *Possible Manual revisions*

PJM SMEs: Dave Egan (David.Egan@pjm.com) and Mazhar Ali (Mazhar.Ali@pjm.com)

Question response = All

2. Select the option to describe the workload required to implement Essential Action 1:
   - A. Low effort to implement changes
   - B. Significant effort to implement changes
   - C. Cumbersome workload and effort to implement changes
   - D. Essential Action 1 is not applicable to my entity's functional group(s)

Question response = TP and PC only

13. Do your current modeling requirements include the actions in Essential Action 2?
   - A. Yes
   - B. No, however, we plan to modify our requirements to include
   - C. No, and we have no plans to modify our requirements

14. If you answered "No, however, we plan to modify our requirements to include" when do you plan to implement changes to your modeling requirements to align with Essential Action 2?
   - A. 2026
   - B. 2027
   - C. 2028
   - D. Beyond 2028

PJM©2026

Summary – Essential Action #3

Essential Action #3 – PCs should revise their definition of "qualified changes" that triggers a review of local area protection, stability limits, and other reliability studies to account for computational load.

PJM preliminary assessment:

- *PJM is in the process of determining any possible Manual revisions (anticipate M-14B revisions) in support of Essential Action #3*

PJM SME: Stanley Sliwa (Stanley.Sliwa@pjm.com)

Question response = All

3. Select the option to describe the workload required to implement Essential Action 3:
   - A. Low effort to implement changes
   - B. Significant effort to implement changes
   - C. Cumbersome workload and effort to implement changes
   - D. Essential Action 1 is not applicable to my entity's functional group(s)

Question response = PC only

10. Does your definition of "qualified change" include the items discussed in Essential Action 3?
   - A. Yes
   - B. No, however, we plan to modify our requirements to include
   - C. No, and we have no plans to modify our requirements

11. If you answered "No, however, we plan to modify our requirements to include" when do you plan to implement changes to your modeling requirements to align with Essential Action 2?
   - A. 2026
   - B. 2027
   - C. 2028
   - D. Beyond 2028

PJM©2026

Summary – Essential Action #5

Essential Action #5 – TPs and PCs should study and implement corrective actions with TOs on the system side of the interconnection to ensure no non-consequential loss of firm load for computational load from normally cleared non-bus faults. Loss of firm load can also be Non-Consequential load loss but does not include customer-initiated load reductions.

PJM preliminary assessment:

- *PJM is in the process of developing an outreach plan with Member Transmission Owners – same as Essential Action #1 & #2*

PJM SMEs: Dave Egan (David.Egan@pjm.com) and Mazhar Ali (Mazhar.Ali@pjm.com)

Question response = All

5. Select the option to describe the workload required to implement Essential Action 5:
   - A. Low effort to implement changes
   - B. Significant effort to implement changes
   - C. Cumbersome workload and effort to implement changes
   - D. Essential Action 1 is not applicable to my entity's functional group(s)

Question response = TP and PC only

13. Do your current modeling requirements include the actions in Essential Action 5?
   - A. Yes
   - B. No, however, we plan to modify our requirements to include
   - C. No, and we have no plans to modify our requirements

14. If you answered "No, however, we plan to modify our requirements to include" when do you plan to implement changes to your modeling requirements to align with Essential Action 5?
   - A. 2026
   - B. 2027
   - C. 2028
   - D. Beyond 2028

PJM©2026

Summary – Essential Action #7

Essential Action #7 – Transmission Operators (TOPs), Reliability Coordinators (RCs), and Balancing Authorities (BAs) should establish Interpersonal Communication capabilities with computational loads to improve their situational awareness and join operating procedures to ensure the reliable operation of the BPS during planned and emergency conditions.

PJM preliminary assessment:

- *PJM is in the process of developing an outreach plan with Member Transmission Owners*

PJM SME: Matthew Wharton (Matthew.Wharton@pjm.com)

Question response = All

7. Select the option to describe the workload required to implement Essential Action 7:
   - A. Low effort to implement changes
   - B. Significant effort to implement changes
   - C. Cumbersome workload and effort to implement changes
   - D. Essential Action 1 is not applicable to my entity's functional group(s)

Question response = TOP, RC and BA only

31. Do your current operating practices include the Interpersonal Communication practices discussed in Essential Action 7?
   - A. Yes
   - B. No, however, we plan to modify our requirements to include
   - C. No, and we have no plans to modify our requirements

32. If you answered "No, however, we plan to modify our requirements to include" when do you plan to implement changes to your modeling requirements to align with Essential Action 7?
   - A. 2026
   - B. 2027
   - C. 2028
   - D. Beyond 2028

PJM©2026

Contact

Presenter/SME :
Gizella Mali

Gizella.Mali@pjm.com

Elizabeth.Davis@pjm.com

Regional_compliance@pjm.com

Reliability Compliance Update

Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

PJM©2026

PROTECT THE POWER GRID

THINK BEFORE YOU CLICK!

pjm

BE ALERT TO MALICIOUS PHISHING EMAILS

Report suspicious email activity to PJM.

Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com

PJM©2026