

# Summary of Proposed Reliability Standard: PRC-030-1

Proposed Reliability Standard PRC-030-1 requiring analysis and mitigation of Inverter-based Resource (IBR) performance issues.

## Details of Standard(s) Development

Reliability Standards Authority: NERC

Standard(s)	<ul style="list-style-type: none"><li>PRC-030-1 – Unexpected Inverter-Based Resource Event Mitigation</li></ul>
Purpose	To identify, analyze, and mitigate unexpected Inverter-Based Resource change of power output.
Change Type:	FERC DIRECTIVE
Affected Functional Entities:	<ul style="list-style-type: none"><li>Generator Owner (GO)</li></ul>
Ballot Results:	<ul style="list-style-type: none"><li>PRC-030-1 90.61% Quorum / 70.88% Approval</li></ul>
Ontario Participant Support:	<ul style="list-style-type: none"><li>PRC-030-1: There were 277 votes cast by NERC registered entities. 2 OEB rate-regulated entities voted (2/ 277). Both were Affirmative.</li></ul>
Impact Within Ontario	Not Assessed.

## Standard Development Milestones

Date	Action
October 08, 2024	<ul style="list-style-type: none"><li>• Adopted by NERC Board of Trustees</li></ul>
November 04, 2024	<ul style="list-style-type: none"><li>• NERC Petition for Approval</li></ul>
November 12, 2024	<ul style="list-style-type: none"><li>• IESO Posting Date</li></ul>
March 11, 2025	<ul style="list-style-type: none"><li>• End of OEB Review Period</li></ul>
TBD	<ul style="list-style-type: none"><li>• FERC Order Issued</li></ul>
TBD	<ul style="list-style-type: none"><li>• US Mandatory Enforcement Date</li></ul>
TBD	<ul style="list-style-type: none"><li>• Ontario Enforcement Date (Milestones in Reliability Standard Development and Lifecycle)</li></ul>

## Summary

Proposed Reliability Standard PRC-030-1 would be a new Reliability Standard that would require the Generator Owner to identify, analyze, and mitigate IBR performance issues. Specifically, Reliability Standard PRC-030-1 would include four requirements for Generator Owners to: (1) document and implement a process for identifying full or partial loss of IBR Real Power output, along with exceptions that should not be identified; (2) analyze identified events and provide the analysis to a requesting Reliability Coordinator, Balancing Authority, or Transmission Operator; (3) create a Corrective Action Plan or technical justification when corrective actions are not implemented and provide it to the applicable Reliability Coordinator, Balancing Authority, or Transmission Operator; and (4) address performance risks through Corrective Action Plan implementation.

## Other Salient Information

### Stakeholder Consultation

#### NERC Reliability Standards Development Procedure

- NERC develops Reliability Standards in accordance with Section 300 (Reliability Standards Development) of its Rules of Procedure and the NERC Standard Processes Manual;
- NERC's rules provide for reasonable notice and opportunity for public comment, due process, openness, and a balance of interests in developing Reliability Standards;
- The development process is open to any person or entity with a legitimate interest in the reliability of the Bulk Power System. NERC considers the comments of all stakeholders;
- Stakeholders must approve, and the NERC Board of Trustees must adopt, a new or revised Reliability Standard before NERC submits the Reliability Standard to FERC for approval;
- NERC provided public notices for comments and balloting as follows:
  - Standard Authorization Request approval:  
January 25, 2023
  - Waivers of Standard Processes Manual minimum posting length requirements:  
December 13, 2023
  - First Posting: March 25, 2024 – April 18, 2024
  - Second Posting: June 7, 2024 – July 10, 2024
  - Third Posting: July 22, 2024 – August 12, 2024
  - Forth Posting August 28, 2024 – September 13, 2024
  - Final Ballot September 23, 2024 – September 27, 2024

#### IESO Reliability Standards Standing Committee

- The purpose of the Reliability Standards Standing Committee (RSSC) is to assist market participants to develop a more comprehensive understanding of their reliability obligations by:
  - Notifying participants of reliability-related information on new and developing reliability standards;
  - Providing a forum to discuss and develop consensus comments on new and developing reliability standards; and
  - Engaging participants in the standard development process of NERC and NPCC.
- The majority of stakeholder engagement takes place by email communications and is open to any stakeholder wishing to join
- The IESO presented the proposed changes at the following RSSC meetings:
  - June 13, 2024
  - September 12, 2024