

Summary of Proposed Reliability Standards: MOD-032-2, IRO-010-6 AND TOP-003-8

Proposed Reliability Standards MOD-032-2 — Data for Power System Modeling and Analysis, IRO-010-6 – Reliability Coordinator Data Specification and Collection and TOP-003-8 – Transmission Operator and Balancing Authority Data and Information Specification and Collection

Details of Standard(s) Development

Reliability Standards Authority: NERC

Standard(s)	• MOD-032-2 — Data for Power System Modeling and Analysis • IRO-010-6 – Reliability Coordinator Data Specification and Collection • TOP-003-8 – Transmission Operator and Balancing Authority Data and Information Specification and Collection
Purpose	MOD-032-2: To establish consistent modeling data requirements and reporting procedures for development of planning horizon cases necessary to support analysis of the reliability of the interconnected transmission system. IRO-010-6: To prevent instability, uncontrolled separation, or Cascading outages that adversely impact reliability; by ensuring each Reliability Coordinator has the data and information it needs to plan, monitor and assess the operation of its Reliability Coordinator Area. TOP-003-8: To ensure that each Transmission Operator and Balancing Authority has the data and information it needs to plan, monitor, and assess the operation of its Transmission Operator Area or Balancing Authority Area
Change Type:	FERC DIRECTIVE
Affected Functional Entities:	MOD-032-2: • Balancing Authority (BA) • Generator Owner (GO) • Distribution Provider (DP) • Planning Coordinator (PC)

	• Resource Planner (RP) • Transmission Owner (TO) • Transmission Planner (TP) • Transmission Service Provider (TSP)
	IRO-010-6: • Reliability Coordinator (RC) • Balancing Authority (BA) • Generator Owner (GO) • Generator Operator (GOP) • Transmission Operator (TOP) • Transmission Owner (TO) • Distribution Provider (DP)
	TOP-003-8: • Transmission Operator (TOP) • Balancing Authority (BA) • Generator Owner (GO) • Generator Operator (GOP) • Transmission Owner (TO) • Distribution Provider (DP)
Ballot Results:	• MOD-032-2: 93.21% Quorum / 78.73% Approval • IRO-010-6: 92.53% Quorum / 87.78% Approval • TOP-003-8: 92.88% Quorum / 84.3% Approval
Ontario Participant Support:	• MOD-032-2: There were 261 votes cast by NERC registered entities. 1 OEB rate-regulated entities voted (1/261) Affirmative. • IRO-010-6: There were 260 votes cast by NERC registered entities. 1 OEB rate-regulated entities voted (1/260) was Affirmative. • TOP-003-8: There were 261 votes cast by NERC registered entities. 1 OEB rate-regulated entities voted (1/261) was Affirmative.
Impact Within Ontario	Not Assessed.

Standards Development Milestones¹

Date	Action
October 31, 2025	• Adopted by NERC Board of Trustees
November 04, 2025	• NERC Petition for Approval
November 11, 2025	• IESO Posting Date
March 11, 2026	• End of OEB Review Period

Summary

Models are essential for power system studies that ensure Bulk-Power System reliability. Accurate models prevent risks such as underinvestment, unsafe operations, or inefficient grid use. With the growing presence of Inverter-Based Resources (IBRs) and Distributed Energy Resources (DERs), traditional modeling approaches have proven insufficient, creating reliability risks highlighted by recent system events.

To address these gaps, FERC issued Order No. 901 (2023), directing NERC to develop comprehensive standards for IBR performance, operations, and planning. In response, NERC proposes three revised Reliability Standards—MOD-032-2, IRO-010-6, and TOP-003-8—to establish a uniform modeling framework. These standards improve how IBRs and DERs are represented in planning and operational models, enhance data sharing, and align with lessons learned from past reliability events. NERC requests Commission approval of these standards as just, reasonable, and in the public interest.

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;

¹ The next steps will be the issuance of the FERC Order followed by determination of the [Ontario Enforcement Date](#).

- NERC provided public notices for comments and balloting as follows:
 - Standard Authorization Request Development: by September 21, 2022
 - First Posting: May 31, 2023 – July 14, 2023
 - Second Posting: October 6, 2023 – November 20, 2023
 - Third Posting: August 27, 2024 – October 10, 2024
 - Waiver April 16, 2025
 - Initial Comment Period and Initial Ballot: April 17, 2025 – May 16, 2025
 - Additional Comment Period and Additional Ballot August 8, 2025 – September 10, 2025
 - Final Ballot: September 29, 2025 – October 3, 2025

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
 - December 11, 2024
 - March 19, 2025
 - June 4, 2025