

# Summary of Proposed Reliability Standards MOD-032-1 and MOD-033-1



**Reliability Standards Authority:** NERC

**Standard:** [MOD-032-1 - Data for Power System Modeling and Analysis](#)  
[MOD-033-1 – Steady-State and Dynamic System Model Validation](#)

**Purpose:** These reliability standards establish consistent modeling data and validation requirements and reporting procedures necessary for developing system models for use in reliability analysis.

**Change Type:** Replace and consolidate the existing MOD “B” Standards.

**Applicable Functional Entities:** Balancing Authority (BA), Generator Owner (GO), Planning Coordinator (PC), Reliability Coordinator (RC), Resource Planner (RP), Transmission Operator (TOP), Transmission Owner (TO), Transmission Planner (TP) or Transmission Service Provider (TSP)

**Non-Ansi Standard:** No

**Ballot Results:** Quorum 82.49%, Approval 82.45%

**Technical Impact in Ontario:** None.

**Costs of Implementation:** None.

**Ontario Participant Support:** Ontario supported these two standards. IESO voted for them.

## Reliability Standard Milestones:

Date	Action
February 6, 2014	Adopted by NERC Board of Trustees
February 25, 2014	<a href="#">NERC Petition for Regulatory Approval</a>
February 28, 2014	<a href="#">IESO Posting Date</a>
June 28, 2014	<a href="#">End of OEB Review Period</a>
TBD	FERC Order Issued
TBD	US Mandatory Enforcement Date
TBD	Ontario Enforcement Date (Milestones in Reliability Standard Development and Lifecycle)

**Summary:**

NERC filed for regulatory approval Reliability Standards MOD-032-1 – Data for Power System Modeling and Analysis and MOD-033-1 – Steady-State and Dynamic System Model Validation to replace and consolidate existing MOD “B” Reliability Standards:

- MOD-010-0- Steady-State Data for Modeling and Simulation of the Interconnected Transmission System
- MOD-011-0- Maintenance and Distribution of Steady-State Data Requirements and Reporting Procedures
- MOD-012-0- Dynamics Data for Modeling and Simulation of the Interconnected Transmission System
- MOD-013-1- Maintenance and Distribution of Dynamics Data Requirements and Reporting Procedures
- MOD-014-0- Development of Steady-State System Models
- MOD-015-0.1- Development of Dynamics System Models

At the same time NERC is requesting approval of the proposed MOD-032-1 and MOD-033-1, it is also seeking approval for the proposed retirement or withdrawal of the existing MOD “B” Reliability Standards, as listed above.

Bulk power system planning and operating decisions are based on the results of power system studies. These studies rely on power system models to predict system performance (e.g., operating studies for setting real-time power transfer limits and planning studies for analyzing system conditions at some time in the future). Because of the importance of power system models, the models, including all of their data, must be accurate and up to date. Inaccurate models could result in unsafe operating conditions and grid under investment or, conversely, overly conservative grid operation and under-utilized network capacity. Therefore, accurate models are vital to the reliable power system operation.

Proposed Reliability Standards MOD-032-1 and MOD-033-1 provide the framework for the collection and validation of the information (i.e., steady-state, dynamics and short circuit modeling data) required to effectively model the interconnected transmission system for both the near-term and long-term planning horizons. They improve on the existing MOD “B” Reliability Standards by clarifying and updating the data requirements and reporting procedures, expanding the coverage to include short circuit data, providing a mechanism for addressing technical concerns with the modeling data collected, and requiring the validation of the steady-state and dynamics models against actual system responses.

There are no technical and no financial impacts anticipated with the proposed standards.

#### **Other Salient Information:**

The IESO is not aware of any other significant factors.