

PJM Compliance Bulletin

CB022-MOD-032-1-Data for Power System Modeling and Analysis

General

PJM is issuing this document to clarify that, as the Planning Coordinator and Transmission Planner, PJM has developed a document that outlines the data requirements, procedures, and schedules for TOs, GOs, and LSEs to submit data in accordance with MOD-032-1 Requirements 2 through 4 which became effective July 1, 2016. The process and procedure document is currently available at

<https://pjm.com/planning/services-requests/planning-modeling-submission-mod-032.aspx>

Background

MOD-032-1 exists in conjunction with MOD-033-1, both of which are related to system-level modeling and validation. Reliability Standard MOD-032-1 is a consolidation and replacement of existing MOD-010-0, MOD-011-0, MOD-012-0, MOD-013-1, MOD-014-0, and MOD-015-0.1, and it requires data submission by applicable data owners to their respective Transmission Planners and Planning Coordinators to support the Interconnection-wide case building process in their Interconnection. Reliability Standard MOD-033-1 is a new standard, and it requires each Planning Coordinator to implement a documented process to perform model validation within its planning area.

PJM is responsible for the development of a Regional Transmission Expansion Plan (RTEP) for the PJM system that will meet the needs of the region in a reliable, economic and environmentally acceptable manner. The annual RTEP includes a comprehensive review of PJM Bulk Electric System (BES) facilities as required by NERC standard TPL-001-4. PJM maintains a series of power flow and stability cases that represent a range of critical system conditions for a range of forecast demand levels and study years.

Steady-state, dynamics, and short circuit data contain the modeling information required to perform the analysis.

MOD-032-1 Requirement 1, which became effective on July 1, 2015, requires PJM to develop data requirements and reporting procedures that will be used to collect the necessary data as detailed in remaining requirements of MOD-032-1, which became effective on July 1, 2016.

Standard MOD-032-1 — Data for Power System Modeling and Analysis

“R1. Each Planning Coordinator and each of its Transmission Planners shall jointly develop steady-state, dynamics, and short circuit modeling data requirements and reporting procedures for the Planning Coordinator’s planning area that include: *[Violation Risk Factor: Lower] [Time Horizon: Long-term Planning]*

1.1. The data listed in Attachment 1.

1.2. Specifications of the following items consistent with procedures for building the Interconnection-wide case(s):

1.2.1. Data format;

- 1.2.2. Level of detail to which equipment shall be modeled;
- 1.2.3. Case types or scenarios to be modeled; and
- 1.2.4. A schedule for submission of data at least once every 13 calendar months.

1.3. Specifications for distribution or posting of the data requirements and reporting procedures so that they are available to those entities responsible for providing the data.

Conclusion

PJM is issuing this document to clarify that, as the Planning Coordinator and Transmission Planner, PJM has developed a document that outlines the data requirements, procedures, and schedules for TOs, GOs, and LSEs to submit data in accordance with MOD-032-1 Requirements 2 through 4 which became effective July 1, 2016. The process and procedure document is currently available at:

<https://pjm.com/planning/services-requests/planning-modeling-submission-mod-032.aspx>

Development History

Revision: 1	Date: 07/13/2017
Author:	<p>Bill Harm Senior Consultant, NERC and Regional Coordination</p> <p>Johnathan Thompson Senior Engineer Transmission Planning</p>
Reviewers:	<p>Mark Sims Manager, Transmission Planning</p> <p>Mark Holman Manager, NERC and Regional Coordination</p>
Approver:	Robert Eckenrod, Chief Compliance Officer
Reason for review: :	Annual review. Updated to reflect recent retirements

Revision: 0	Date: 6/30/2015
Author:	<p>Bill Harm Senior Consultant, NERC and Regional Coordination</p> <p>Johnathan Thompson Senior Engineer Transmission Planning</p>
Reviewers:	<p>Mark Sims Manager, Transmission Planning</p> <p>Mark Holman Manager, NERC and Regional Coordination</p> <p>Robert Eckenrod Senior Counsel, Office of General Counsel</p>



Approver:	Tom Bowe Executive Director, Reliability and Compliance
New CB:	Standard Mod 032-1 Requirement 1 becomes enforceable 7/1/2015.