Unofficial Comment Form

Project 2020-06 Verification of Models and Data for Generators

**Do not** use this form for submitting comments. Use the [Standards Balloting and Commenting System (SBS)](https://sbs.nerc.net/) to submit comments on draft one of Reliability Standard **MOD-026-2** **Verification of Dynamic Models and Data for BES Connected Facilities** by **8 p.m. Eastern, Wednesday, July 6, 2022.
m. Eastern, Thursday, August 20, 2015**

Additional information is available on the [project page](https://www.nerc.com/pa/Stand/Pages/Project-2020_06-Verifications-of-Models-and-Data-for-Generators.aspx). If you have questions, contact Senior Standards Developer, Chris Larson (via email), or at 404-446-9708.

## Background

## The NERC Inverter-based Resource (IBR) Performance Task Force (IRPTF) performed a comprehensive review of all NERC Reliability Standards to identify any potential gaps and/or improvements. The IRPTF discovered several issues as part of this effort and documented its findings and recommendations in the IRPTF Review of NERC Reliability Standards White Paper, which was approved in March 2020 by the Operating Committee and the Planning Committee (now part of the Reliability and Security Technical Committee (RSTC)). Among the findings noted in the white paper, the IRPTF identified issues with MOD-026-1 and MOD-027-1 that should be addressed. The RSTC endorsed the standard authorization request (SAR) on June 10, 2020.

## Consistent with the IRPTF recommendations, the scope of the proposed SAR includes revisions to NERC Reliability Standards MOD-026-1 and MOD-027-1. These standards require, among other things, Generator Owners to provide verified dynamic models to their Transmission Planner for the purposes of power system planning studies. The project proposed revisions to MOD-026-1 and MOD-027-1 to clarify requirements related to IBRs, and to require sufficient model verification to ensure accurate generator representation in dynamic simulations. The IRPTF recommended revisions to clarify the applicable requirements for synchronous generators and IBRs.

## Additionally, the potential risk of increasing amounts of reactive power being supplied by nonsynchronous sources was identified in NERC's 2017 Long-term Reliability Assessment. In response to the concern, the Planning Committee (PC) assigned the System Analysis and Modeling Subcommittee (SAMS) to study the issue. The SAMS developed the Applicability of Transmission-Connected Reactive Devices white paper, which was approved by the PC at its December 2019 meeting. The PC Executive Committee approved the SAR on February 11, 2020. Recommended revisions to MOD-026-1 and MOD-027-1 outlined in the SAR were undertaken within the scope of this project.

Please provide your responses to the questions listed below, along with any detailed comments.

## Questions

1. The standard drafting team (SDT) proposes combining MOD-026-1 and MOD-027-1 into a single standard, MOD-026-2, due to the efficiency of having one standard with common process and requirement language. Do you agree with this approach? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. Do you agree the language proposed in MOD-026-2 Requirement R1? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. Do you agree the language proposed in MOD-026-2 Requirements R2 and R3? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. Do you agree the language proposed in MOD-026-2 Requirements R4 and R5? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. Do you agree the language proposed in MOD-026-2 Requirement R6? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. Do you agree the language proposed in MOD-026-2 Requirements R7, R8, and R9? If you do not agree, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. The SDT believes the language of MOD-026-2 addresses the issues outlined in the two SARs in a cost effective manner. Do you agree? If you do not agree, or if you agree but have suggestions for improvement to enable more cost effective approaches, please provide your recommendation and, if appropriate, technical or procedural justification.

[ ]  Yes

[ ]  No

Comments:

1. The SDT proposes a 1 year implementation plan for Requirements R1, R7, R8, and R9, with an additional 2 years for compliance with Requirements R2-R6 for newly applicable Facilities. For existing Facilities, the Implementation Plan proposes the ten year reoccurring periodicity is maintained from the date of previous model verification. Would these proposed timeframes give enough time to put into place process, procedures or technology to meet the proposed language? If you think an alternate timeframe is needed, please propose an alternate implementation plan and time period, and provide a detailed explanation of actions planned to meet the implementation deadline.

[ ]  Yes

[ ]  No

Comments:

1. Provide any additional comments on the standard and technical rationale document for the SDT to consider, if desired.

Comments: