NERC MOD-027-1 – Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions for Requirement R1 (MOD-027-1 R1)

NERC MOD-027-1 Requirement R1

1. Send email to NERC.Transmission.Planner@pjm.com with the following specifications:

    a. Subject line "MOD-027-1"

    b. Indicate the Generator Owner which is submitting the request

    c. Explicitly state the purpose of the email:

        i. A request for the list of acceptable turbine/governor and load control or active power/frequency control system models

        ii. A request for acceptable dynamic turbine/governor and load control or active power/frequency control function model library block diagrams and/or data sheets

        iii. A request for model data of an existing applicable unit specific turbine/governor and load control or active power/frequency control system contained in current PJM dynamic planning models

2. PJM, upon receipt of request, will respond to requests accordingly:

    a. PJM will provide a list of acceptable turbine/governor and load control or active power/frequency control system models upon request

    b. PJM will provide instruction on how to obtain acceptable dynamic turbine/governor and load control or active power/frequency control function model library block diagrams and/or data sheets upon request

    c. PJM will provide model data of an existing applicable unit specific turbine/governor and load control or active power/frequency control system contained in current PJM dynamic planning models, upon request, in the form of a PSS/E text file

3. Generator Owners, if needed, shall provide updated model data (PSS/E text file) or notification of model issues to PJM

4. PJM shall provide a response to the Generator Owner indicating whether the model data provided by the Generator Owner is usable or not usable. If the model is not usable, PJM will provide a technical description as to why the model data is not usable.

Standard MOD-027-1 — Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions

*"**R1.** Each Transmission Planner shall provide the following requested information to the Generator Owner within 90 calendar days of receiving a written request: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]*

•   Instructions on how to obtain the list of turbine/governor and load control or active power/frequency control system models that are acceptable to the Transmission Planner for use in dynamic simulation,

•   Instructions on how to obtain the dynamic turbine/governor and load control or active power/frequency control function model library block diagrams and/or data sheets for models that are acceptable to the Transmission Planner, or

•   Model data for any of the Generator Owner's existing applicable unit specific turbine/governor and load control or active power/frequency control system contained in the Transmission Planner's dynamic database from the current (in-use) models."

Document Revision History

July 1, 2014 – Original Version