

FERC Order 901 Milestone 3 Projects

Project 2020-06 – Verifications of Models and Data for Generators: *Addressing the verification and validation of models for registered inverter-based resources (IBR), unregistered and aggregated IBR, and aggregated distributed energy resources.*

Additional Focus:

- Define terms, such as Model Verification and Model Validation
- Develop process for post-interconnection model validation based on performance data
- Set validation expectations using performance data

Standards Include: MOD-026, MOD-027, FAC-00

Project 2021-01 – System Model Validation with IBRs: *Addressing system-level model verification and validation against actual system operational behavior during disturbances as well as aligning steady state and dynamic representation, where appropriate.*

Additional Focus:

- Develop criteria for performing validation
- Determine minimum study conditions for conducting validation studies
- Develop process to communicate system interconnection-wide model defects to Transmission Planners and other associated entities

Standards Include: MOD-033

Project 2022-02 – Uniform Framework Model Framework for IBR: *Addressing development of a NERC-maintained library consisting of generic IBR model types.*

Additional Focus:

- Establish a uniform framework for data sharing and model development
- Ensure other standards use performance data and library using this framework

Standards Include: MOD-032, TOP-003, IRO-010

Project 2022-04 – Electromagnetic Transient (EMT) Modeling (expected to be added December 2024): *Addressing establishment of EMT studies, as appropriate, during the interconnection process.*

Additional Focus:

- Assure alignment with other modeling requirements developed by Milestone 3 project teams to ensure a streamlined model validation and data sharing process

Standards Include: MOD-032, FAC-001, FAC-002