

**Generator Interconnection Agreement  
Solar Generating Facility Data  
Required Prior to Commercial Operation**

**Generating Facility Name:** \_\_\_\_\_

**1. Inverter and PV Module Dynamic Modeling Data.**

- a. As-built dynamic modeling data (representing final commissioning and settings), including plant volt/var control function model **and** active power/frequency control function model, in a Siemens/PTI PSS/E standard model. If a user-written model is submitted in place of a standard model, it must include the model characteristics, including block diagrams, values and names for all model parameters and a list of all state variables.<sup>1</sup>
- b. Modeling data to be provided at least thirty (30) days prior to the Commercial Operation Date.  
Submitted by Generator: \_\_\_\_\_ Validated by Transmission Provider: \_\_\_\_\_
- c. Verify that all inverters' Q (Mvar) priority setting has been enabled. Yes / No / Not Available

**2. Plant Dynamic Reactive Power Compensation** (beyond the inverters built-in reactive capability), if applicable.

- a. As-built dynamic modeling data (representing final commissioning and settings) in a Siemens/PTI PSS/E standard model. If a user-written model is submitted in place of a standard model, it must include the model characteristics, including block diagrams, values and names for all model parameters, and a list of all state variables.<sup>1</sup>
- b. Modeling data to be provided at least thirty (30) days prior to the Commercial Operation Date.  
Submitted by Generator: \_\_\_\_\_ Validated by Transmission Provider: \_\_\_\_\_

**3. Plant Voltage (or power factor) Step Test Data.**

- a. The response of the voltage at the Point of Interconnection to set-point changes at inverter terminals. Any plant reactive power compensation devices should not be in service during the tests.
  - The data should include MW, Mvar, and Voltage at a single inverter terminal and MW, Mvar, Voltage at the POI.
  - The test data should have sufficient sampling rate to see the details of the transient and be submitted in electronic form.
  - The plant voltage test step data to be provide within thirty (30) days after the plant voltage step test and at least seven (7) days prior to the Commercial Operation Date.  
Submitted by Generator: \_\_\_\_\_ Validated by Transmission Provider: \_\_\_\_\_
- b. The final commissioning report to be provided no later than thirty (30) days after the Commercial Operation Date.  
Submitted by Generator: \_\_\_\_\_ Validated by Transmission Provider: \_\_\_\_\_

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<sup>1</sup> All of the associated files, including source code, for dynamic modeling should be in PSS/E versions 32 and 33, and must be shareable on an interconnection-wide basis to support use in the interconnection-wide cases (required by NERC Reliability Standard MOD-032-1).