

**Interconnection Equipment As Built Specifications,  
Initial Settings and Operating Requirements \***

**Address of Facility**

Interconnection Customer: \_\_\_\_\_

Facility Operator (if different than above): \_\_\_\_\_

Facility Location/ Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Revision Date: \_\_\_\_\_

**Energy Production Equipment/Inverter Information**

Synchronous     Induction     Inverter     Other \_\_\_\_\_

Electric Nameplate Rating: \_\_\_\_\_ kW    \_\_\_\_\_ kVA

Rated Voltage: \_\_\_\_\_ Volts

Rated Current: \_\_\_\_\_ Amps

Phases:  Single  Three-Phase

System Type Tested (Total System):  Yes     No; attach product literature

**For Synchronous Machines**

Manufacturer: \_\_\_\_\_

Model No.: \_\_\_\_\_ Version No.: \_\_\_\_\_

Submit copies of the Saturation Curve and the Vee Curve  Salient  Non-Salient

Field Amperes: \_\_\_\_\_ at rated generator voltage and current and \_\_\_\_\_% PF over-excited

Type of Exciter: \_\_\_\_\_

Output Power of Exciter: \_\_\_\_\_

Type of Voltage Regulator: \_\_\_\_\_

Locked Rotor Current: \_\_\_\_\_ Amps

Synchronous Speed: \_\_\_\_\_ RPM

Winding Connection: \_\_\_\_\_

Min. Operating Freq./Time: \_\_\_\_\_

Generator Connection:  Delta  Wye  Wye Grounded

Direct-axis Synchronous Reactance (Xd) \_\_\_\_\_ ohms

Direct-axis Transient Reactance: (X'd) \_\_\_\_\_ ohms

Direct-axis Sub-transient Reactance: (X''d) \_\_\_\_\_ ohms

**For Induction Machines**

Manufacturer: \_\_\_\_\_

Model No.: \_\_\_\_\_ Version No.: \_\_\_\_\_

Locked Rotor Current: \_\_\_\_\_ Amps

Rotor Resistance: (Rr) \_\_\_\_\_ ohms Exciting Current: \_\_\_\_\_ Amps

Rotor Reactance: (Xr) \_\_\_\_\_ ohms Reactive Power Required: \_\_\_\_\_

Magnetizing Reactance: (Xm) \_\_\_\_\_ ohms \_\_\_\_\_ VARs (No Load)

Stator Resistance: (Rs) \_\_\_\_\_ ohms \_\_\_\_\_ VARs (Full Load)

Stator Reactance: (Xs) \_\_\_\_\_ ohms

Short Circuit Reactance: (X"d) \_\_\_\_\_ ohms

Electric Nameplate Capacity rating: (kVA) \_\_\_\_\_

**For Inverter Based Facilities**

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Type:  Forced Commutated  Line Commutated

Electric Nameplate Capacity Rated Output: \_\_\_\_\_ Amps \_\_\_\_\_ Volts  
\_\_\_\_\_ kW

Efficiency: \_\_\_\_\_% Power Factor: \_\_\_\_\_%

Is Inverter Lab Tested?  Yes (attach product literature)  No

**DC Source / Prime Mover:**

Solar  Wind  Hydro  Other \_\_\_\_\_

Electric Nameplate Capacity Rating: \_\_\_\_\_ kW Rating: \_\_\_\_\_ kVA

Rated Voltage: \_\_\_\_\_ Volts

Open Circuit Voltage (If applicable): \_\_\_\_\_ Volts

Rated Current: \_\_\_\_\_ Amps

Short Circuit Current (If applicable): \_\_\_\_\_ Amps

**Other Facility Information**

One Line Diagram attached:  Yes  No

Plot Plan attached:  Yes  No

Isolation Device Type/ Location: \_\_\_\_\_

Grounding Configuration: \_\_\_\_\_

Initial Commissioning Date: \_\_\_\_\_

**Switchgear/ Circuit Interruption Devices**

Switchgear type and control: (used to bring generator on line)

Circuit Breakers:  Closed-transition  Open –transition  Auto Transfer  
Switch

Nameplate: \_\_\_\_\_

**Metering**

Location: \_\_\_\_\_

Metering Issues: \_\_\_\_\_

Monitoring Provisions:  Yes  No

Monitoring Values: \_\_\_\_\_

Monitoring Issues: \_\_\_\_\_

**Telemetry**

Telemetry Requirements: \_\_\_\_\_

System Configuration: \_\_\_\_\_

Data Scan Rate: \_\_\_\_\_

Data Point List: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telemetry Data Delivery Location: \_\_\_\_\_

**Initial Set points at Point of Interconnection**

Voltage: \_\_\_\_\_ kVAr: \_\_\_\_\_

Power factor: \_\_\_\_\_

Other: \_\_\_\_\_

Other: \_\_\_\_\_

**Trip Re-start Protocol**

Reclosing Practice: \_\_\_\_\_

Hold out time: \_\_\_\_\_

Ramp Rate: \_\_\_\_\_

Notification required:  Yes  No

**Operations and Maintenance Schedule**

Operating Hours: \_\_\_\_\_ Availability (%): \_\_\_\_\_

Seasonal Effect: \_\_\_\_\_

Routine and Annual Maintenance Schedule: \_\_\_\_\_

**Interconnection Customer/Applicant Signature**

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

\*Complete only those sections that apply. Initial operating set points and 'as built' equipment data is to be recorded on or about the time of the Witness Test. It shall be submitted by the applicant along with the Cof C at the completion of the installation and interconnection and will remain part of the permanent interconnection record described in OAR 860-082-0065. Parties may not deviate from initial settings and agreed upon operating parameters except as permitted by the Rule without written authorization of the Public Utility. The Interconnection Customer will furnish updated information to the Public Utility any time a special operating requirement initial set point or the Interconnection Equipment is materially changed.