APPENDIX 1 to QF-LGIP
INTERCONNECTION REQUEST FOR A
QF LARGE GENERATING FACILITY

1. The undersigned Interconnection Customer submits this request to interconnect its Large Generating Facility which is a Qualifying Facility with Transmission Provider's Transmission System pursuant to Transmission Provider's QF-LGIP.

2. This Interconnection Request is for (check one):
   _____ A proposed new Large Generating Facility that is a Qualifying Facility.
   _____ An increase in the generating capacity or a Material Modification of an existing Generating Facility that is a Qualifying Facility.

3. The type of interconnection service requested is Network Resource Interconnection Service.

4. _____ Check here if Interconnection Customer requesting Network Resource Interconnection Service has initiated the process of certifying the Large Generating Facility as a Qualifying Facility as provided in 18 C.F.R. 292.207.

5. Interconnection Customer provides the following information:

   a. Address or location or the proposed new Large Generating Facility site (to the extent known) or, in the case of an existing Generating Facility, the name and specific location of the existing Generating Facility;

   b. Maximum summer at _____ degrees C and winter at _____ degrees C megawatt electrical output of the proposed new Large Generating Facility or the amount of megawatt increase in the generating capacity of an existing Generating Facility;

   c. General description of the equipment configuration;

   d. Commercial Operation Date (Day, Month, and Year);

   e. Name, address, telephone number, and e-mail address of Interconnection Customer's contact person;

   f. Approximate location of the proposed Point of Interconnection (optional); and

   g. Interconnection Customer Data (set forth in Attachment A)

6. Applicable deposit amount as specified in the QF-LGIP.

7. Evidence of Site Control as specified in the QF-LGIP (check one)

_____ Is attached to this Interconnection Request
_____ Will be provided at a later date in accordance with this QF-LGIP

8.   This Interconnection Request shall be submitted to the representative indicated below:

   [To be completed by Transmission Provider]

9.   Representative of Interconnection Customer to contact:

   [To be completed by Interconnection Customer]

10.   This Interconnection Request is submitted by:

Name of Interconnection Customer: _____

By (signature): _____

Name (type or print): _____

Title: _____

Date: _____

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QF LARGE GENERATING FACILITY DATA

UNIT RATINGS

kVA _____ °F _____ Voltage _____

Power Factor _____

Speed (RPM) _____   Connection (e.g. Wye) _____

Short Circuit Ratio _____   Frequency, Hertz _____

Stator Amperes at Rated kVA _____   Field Volts _____

Max Turbine MW _____ °F _____

COMBINED TURBINE-GENERATOR-EXCITER INERTIA DATA

Inertia Constant, H = _____ kW sec/kVA

Moment-of-Inertia, WR^2 = _____ lb. ft.^{2}

REACTANCE DATA (PER UNIT-RATED KVA)

	DIRECT AXIS		QUADRATURE AXIS	
Synchronous – saturated	X_{dv}	_____	X_{qv}	_____
Synchronous – unsaturated	X_{di}	_____	X_{qi}	_____
Transient – saturated X'_{dv}		_____ X'_{qv}		_____
Transient – unsaturated	X'_{di}	_____	X'_{qi}	_____
Subtransient – saturated	X''_{dv}	_____	X''_{qv}	_____
Subtransient – unsaturated	X''_{di}	_____	X''_{qi}	_____
Negative Sequence – saturated	$X2_v$	_____		
Negative Sequence – unsaturated	$X2_i$	_____		
Zero Sequence – saturated	$X0_v$	_____		
Zero Sequence – unsaturated $X0_i$		_____		
Leakage Reactance	Xl_m	_____		

FIELD TIME CONSTANT DATA (SEC)

Open Circuit $\qquad$ T'_{do} _____ T'_{qo} _____
Three-Phase Short Circuit Transient T'_{d3} _____ T'_q _____
Line to Line Short Circuit Transient T'_{d2} _____
Line to Neutral Short Circuit Transient T'_{d1} _____
Short Circuit Subtransient T''_d _____ T''_q _____
Open Circuit Subtransient T''_{do} _____ T''_{qo} _____

ARMATURE TIME CONSTANT DATA (SEC)

Three Phase Short Circuit T_{a3} _____
Line to Line Short Circuit T_{a2} _____
Line to Neutral Short Circuit T_{a1} _____

NOTE: If requested information is not applicable, indicate by marking "N/A."

MW CAPABILITY AND PLANT CONFIGURATION
LARGE GENERATING FACILITY DATA

ARMATURE WINDING RESISTANCE DATA (PER UNIT)

Positive R_1 _____
Negative R_2 _____
Zero R_0 _____

Rotor Short Time Thermal Capacity $I_2^2 t =$ _____
Field Current at Rated kVA, Armature Voltage and PF = _____ amps
Field Current at Rated kVA and Armature Voltage, 0 PF = _____ amps
Three Phase Armature Winding Capacitance = _____ microfarad
Field Winding Resistance = _____ ohms _____ °C
Armature Winding Resistance (Per Phase) = _____ ohms _____ °C

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CURVES

Provide Saturation, Vee, Reactive Capability, Capacity Temperature Correction curves.
Designate normal and emergency Hydrogen Pressure operating range for multiple curves.

GENERATOR STEP-UP TRANSFORMER DATA RATINGS

Capacity   Self-cooled/
                  Maximum Nameplate
_____/_____kVA

Voltage Ratio(Generator Side/System side/Tertiary)
_____/_____/_____kV

Winding Connections (Low V/High V/Tertiary V (Delta or Wye))
_____/_____/_____

Fixed Taps Available _____

Present Tap Setting _____

IMPEDANCE

Positive Z_1 (on self-cooled kVA rating)_____ % _____ X/R

Zero Z_0 (on self-cooled kVA rating)_____ % _____ X/R

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EXCITATION SYSTEM DATA

Identify appropriate IEEE model block diagram of excitation system and power system stabilizer (PSS) for computer representation in power system stability simulations and the corresponding excitation system and PSS constants for use in the model.

GOVERNOR SYSTEM DATA

Identify appropriate IEEE model block diagram of governor system for computer representation in power system stability simulations and the corresponding governor system constants for use in the model.

WIND GENERATORS

Number of generators to be interconnected pursuant to this Interconnection Request:

_____

Elevation: _____   _____ Single Phase   _____ Three Phase

Inverter manufacturer, model name, number, and version:

_____

List of adjustable setpoints for the protective equipment or software:

_____

Note: A completed General Electric Company Power Systems Load Flow (PSLF) data sheet or other compatible formats, such as IEEE and PTI power flow models, must be supplied with the Interconnection Request. If other data sheets are more appropriate to the proposed device, then they shall be provided and discussed at Scoping Meeting.

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INDUCTION GENERATORS

(*) Field Volts: _____

(*) Field Amperes: _____

(*) Motoring Power (kW): _____

(*) Neutral Grounding Resistor (If Applicable): _____

(*) I_2^2t or K (Heating Time Constant): _____

(*) Rotor Resistance: _____

(*) Stator Resistance: _____

(*) Stator Reactance: _____

(*) Rotor Reactance: _____

(*) Magnetizing Reactance: _____

(*) Short Circuit Reactance: _____

(*) Exciting Current: _____

(*) Temperature Rise: _____

(*) Frame Size: _____

(*) Design Letter: _____

(*) Reactive Power Required In Vars (No Load): _____

(*) Reactive Power Required In Vars (Full Load): _____

(*) Total Rotating Inertia, H: _____Per Unit on KVA Base

Note: Please consult Transmission Provider prior to submitting the Interconnection Request to determine if the information designated by (*) is required.