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APPENDIX 1 to Revised LGIP INTERCONNECTION REQUEST FOR A LARGE GENERATING FACILITY

1.	The undersigned Interconnection Customer submits this request to interconnect its Large Generating Facility with Transmission Provider's Transmission System pursuant to a Tariff.
2.	This Interconnection Request is for (check one): A proposed new Large Generating Facility. An increase in the generating capacity or a Material Modification of an existing Generating Facility. A Generating Facility proposed for inclusion in a resource solicitation process.
3.	The type of interconnection service requested (check one):Energy Resource Interconnection ServiceNetwork Resource Interconnection Service
4.	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); g. Interconnection Customer Data (set forth in Attachment A)
	 h. Primary frequency response operating range for electric storage resources. i. Requested capacity (in MW) of Interconnection Service (if lower than the Generating Facility Capacity).
5.	Interconnection Customer provides applicable study deposit amount as specified in the Revised LGIP.
	\$75,000 for requests of less than 50 MW; or \$150,000 for requests of 50 MW and Greater, but less than 200 MW; or \$250,000 for requests of 200 MW and greater
6.	Interconnection Customer provides Readiness Milestone 1 (M1) as specified in the Revised LGIP.

M1 is satisfied by any one of the three options below (also described in 3.4.1.f of the Revised LGIP) at Interconnection Customer's option. M1 may also be satisfied by

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providing additional security described in Section 7.7.5 *in lieu* of providing one of the three options to demonstrate readiness.

- Executed term sheet (or comparable evidence) related to a contract, binding upon the parties to the contract, for sale of (i) the constructed Generating Facility, (ii) the Generating Facility's energy, or (iii) the Generating Facility's ancillary services if the Generating Facility is an electric storage resource; where the term of sale is not less than five (5) years;
- ii. Reasonable evidence the project has been selected in a Resource Plan or Resource Solicitation Process; or
- iii. Provisional Large Generator Interconnection Agreement accepted for filing with FERC. Such an agreement shall not be suspended and shall include a commitment to construct the Generating Facility.
- 7. Interconnection Customer provides security equal to one times the study deposit described in Section 3.1 of the Revised LGIP in the form of an irrevocable letter of credit or cash.
- 8. If requesting NRIS: Interconnection Customer provides the expected point of delivery to deliver within the Transmission Provider's Control Area or to an adjoining Control Area if the Generating Facility is not designated a Network Resource pursuant to Section 30.2 of the Tariff.
- 9. Interconnection Customer provides Evidence of Site Control as specified in the Revised LGIP and Transmission Provider's business practices posted on OASIS.
- 10. This Interconnection Request shall be submitted to the representative indicated below:

[To be completed by Transmission Provider]

11. Representative of Interconnection Customer to contact:

[To be completed by Interconnection Customer]

12. This Interconnection Request is submitted by:

Name of Interconnection Customer:
By (signature):
Name (type or print):
Title:
Date:

Date Submitted:

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Attachment A to Appendix 1 Interconnection Request

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	
Primary frequency respo	onse operating range fo	r electric storage resources.
Minimum State of Chai		
Maximum State of Cha	<u></u>	
COMBINED TURE	BINE-GENERATOR-EXC	CITER INERTIA DATA
Inertia Constant, H =	kW sec/kVA	
Moment-of-Inertia, WR ² =	lb. ft. ²	
REACTA	NCE DATA (PER UNIT-I	RATED KVA)
DIR	ECT AXIS QUADRATUR	RE 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 – unsaturate	ed X2 _i	
Zero Sequence – saturated	X0 _v	
Zero Sequence – unsaturated	X0 _i	
Leakage Reactance	XI _m	

FIELD TIME CONSTANT DATA (SEC)

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Open Circuit	T' _{do}	T' _{qo}				
Three-Phase Short Circuit Transient	T' _{d3}	T' _q				
Line to Line Short Circuit Transient	T' _{d1}					
Short Circuit Subtransient	T" _d	T" _q				
Open Circuit Subtransient	T' _{d2}					
Line to Neutral Short Circuit Transient	T" _{do}	T" _{qo}				
ARMATURE TI	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 app	plicable, indicate l	by marking "N/A."				
MW CAPABILITY LARGE GEN	AND PLANT CO ERATING FACIL					
ARMATURE WINDIN	G RESISTANCE	DATA (PER UNIT)				
$\begin{array}{ccc} \text{Positive} & & R_1 ___\\ \text{Negative} & & R_2 ___\\ \text{Zero} & & R_0 ___\\ \end{array}$						
Rotor Short Time Thermal Capacity I_2^2t = Field Current at Rated kVA, Armature Vo Field Current at Rated kVA and Armature Three Phase Armature Winding Capacita Field Winding Resistance = ohn Armature Winding Resistance (Per Phase	oltage and PF = e Voltage, 0 PF =_ ance =mi ms°C	amps crofarad				

CURVES

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

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GENERATOR STEP-UP TRANSFORMER DATA RATINGS

Capacity	Self-cooled/ Maximum Nameplate /kVA				
Voltage Ratio(Generator Side/System side/Tertiary)/kV					
Winding Connecti	ons (Low V/High V/Tertiary V (I _//				
Fixed Taps Availa	ble				
Present Tap Settii	ng				
If more than one transformer stage is used to deliver the output from the proposed Generating Facility to the Transmission System, please provide the information above for each transformer or transformer type.					
	IMPED	ANCE			
Positive Z_1 (on self-	-cooled kVA rating)	%	X/R		
Zero Z_0 (on self-	-cooled kVA rating)	%	X/R		
	EXCITATION S	YSTEM 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 AND OTHER NON-SYNCHRONOUS GENERATORS					
Number of gene	erators to be interconnected	pursuant to this Inte	erconnection Request:		
Elevation:	Single Phase _	Three Phase			

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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 of 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, there they shall be provided and discussed at Scoping Meeting.
Project Information: Site Control and Adequacy
Total acres required to construct the Generating Facility:
Total acres under site control for the Generating Facility at the time of application:
Is Site Control required for Interconnection Facilities, i.e. transmission gen-tie or substation, to interconnect the Generating Facility? $___$ Y $___$ N
If yes, how many miles of gen-tie right-of-way are required? What is the total number of acres required to build the gen-tie? How many miles of gen-tie right-of-way are under Site Control at the time of this application?
List any local, state, or federal government permits required to construct the Generating Facility and any applicable Interconnection Facilities, i.e. transmission gen-tie:

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INDUCTION GENERATORS

(*) Field Volts:	
(*) Field Amperes:	
(*) Motoring Power (kW):	
(*) Neutral Grounding Resistor (If Appl	icable:
(*) I ₂ ² t 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.