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APPENDIX 5.4 to Revised LGIP INFORMATIONAL INTERCONNECTION STUDY REQUEST

1.	interconnection of its Generating Facility with Transmission Provider's Transmission System pursuant to the Tariff.		
2.	The type of interconnection service to be evaluated (check one):Energy Resource Interconnection ServiceNetwork Resource Interconnection Service		
3.	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 megawati 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 to be studied (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;		
	g. Interconnection Customer Data (set forth in Attachment A)		
	h. Primary frequency response operating range for electric storage resources.		
	 Requested capacity (in MW) of Interconnection Service (if lower than the Generating Facility Capacity); and 		
	 j. A Scope of Work including any additional information that may be reasonably required. 		
4.	\$10,000 study deposit amount as specified in the Revised LGIP.		
5.	For study purposes, the point of delivery to deliver within the Control Area or to adjoining Control Area if the Generating Facility is not designated a Network Resource pursuant to Section 30.2 of the Tariff.		
6.	This Informational Interconnection Study Request shall be submitted to the representative indicated below:		
	[To be completed by Transmission Provider]		
7.	Representative of Interconnection Customer to contact:		
	[To be completed by Interconnection Customer]		

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8.	This Interconnection Request is submitted by:		
	Name of Interconnection Customer:		
	By (signature):		
	Name (type or print):		
	Title:		
	Date:		

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Attachment A to Appendix 5.4 Informational Interconnection Study Request

LARGE GENERATING FACILITY DATA

UNIT RATINGS

kVA	°F	Voltage		
Power Factor		•		
Speed (RPM)				
Short Circuit Ratio	Frequency, Hertz			
Stator Amperes at Rated kVA		Field Volts		
Max Turbine MW	°F			
Primary frequency respo	onse operating range for o	electric storage resources.		
Minimum State of Char	rge:			
Maximum State of Cha				
COMBINED TURI	BINE-GENERATOR-EXCIT	TER INERTIA DATA		
Inertia Constant, H =	kW sec/kVA			
Moment-of-Inertia, WR ² =	lb. ft. ²			
REACTA	NCE DATA (PER UNIT-RA	ATED KVA)		
DIR	ECT 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 – unsaturate	ed X2 _i			
Zero Sequence – saturated	X0 _v			
Zero Sequence – unsaturated	X0 _i			
Leakage Reactance	XI _m			

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Open Circuit		T' _{do}	T' _{qo}		
Three-Phase Short Circuit Trans	sient	T' _{d3}	T' _q		
Line to Line Short Circuit Transie	ent	T' _{d1}			
Short Circuit Subtransient		T" _d	T" _q		
Open Circuit Subtransient		T' _{d2}			
Line to Neutral Short Circuit Tran	nsient	T" _{do}	T" _{qo}		
		ONSTANT DATA E CONSTANT DA			
Three Phase Short Circuit Line to Line Short Circuit Line to Neutral Short Circuit	T _{a3} T _{a2} T _{a1}				
NOTE: If requested information is	not applic	cable, indicate by r	narking "N/A."		
MW CAPABILITY AND PLANT CONFIGURATION LARGE GENERATING FACILITY DATA					
ARMATURE V	WINDING	RESISTANCE DA	TA (PER UNIT)		
Positive Negative Zero	R ₁ R ₂ R ₀				
Rotor Short Time Thermal Capacity $I_2^2t = \underline{\hspace{1cm}}$ 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					
		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

Capac	ity	Self-cooled/ Maximum Namepla			
		nerator Side/System /	- n side/Tertiary)	_kV	
		ons (Low V/High V/			
Fixed	Taps Availa	ble			
Preser	nt Tap Setti	ng			
the Ti					the proposed generator to e for each transformer or
			IMPEDANCE		
Positiv		-cooled kVA rating)		%	X/R
Zero	Z ₀ (on self	-cooled kVA rating)		%	X/R
		EXC	ITATION 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.

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WIND GENERATORS

Number of generators to be	interconnected	pursuant to	this	Interconnection	Request:
Elevation:	Single Phase _	Three	Phas	se	
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 Applic	able:
(*) 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	•
(*) Reactive Power Required In Vars (Fu	•
(*) Total Rotating Inertia, H:	Per Unit on KVA Base

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