APPENDIX 1 to LGIP INTERCONNECTION REQUEST FOR A LARGE GENERATING FACILITY

This In	nterconnection 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.
	Permissible Technological Advancement request related to an existing Interconnection Request.
	Provisional Interconnection Service related to an existing Interconnection Requestor Interconnection Agreement. The existing Interconnection Queue Number associated with Provisional Interconnection Service Request is
	Surplus Interconnection Service related to an existing LGIA. Existing LGIA Customer offering Surplus Interconnection Service:
	Surplus Interconnection Service Customer:
	Existing Generating Facility location and related Point of Interconnection where Surplus Interconnection Service is being offered:
	For Surplus Interconnection Service, also include (1) proof that existing LGIA customer and Surplus Interconnection Customer have entered into a Surplus arrangement and (2) the System Impact Study performed for the Existing Generating Facility with its application or indicate that such study is not available
The ty	pe of interconnection service requested (check one):
	Energy Resource Interconnection Service
	Network Resource Interconnection Service

Filed on: March 2, 2022

4.	Check here only if Interconnection Customer requesting Network Resource Interconnection Service also seeks to have its Generating Facility studied for Energy Resource Interconnection Service		
5.	Gend Mod Serv For S the C	connection Customer provides the following information for a proposed new erating Facility, an increase to Generating Facility Capacity or a Material diffication of an existing Generating Facility, or for Provisional Interconnection ice related to an existing Interconnection Request or Interconnection Agreement. Surplus Interconnection Service, the applicant provides the following information for Generating Facility that plans to utilize the Surplus Interconnection Service offered at existing Interconnection Customer's Point of Interconnection.	
	a.	Address or location of 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.	Interconnection Customer's tax identification number;	
	g.	Approximate location of the proposed Point of Interconnection (optional);	
	h.	Interconnection Customer Data (set forth in Attachment A);	
	i.	Primary frequency response operating range for electric storage resources; and	
	j.	Requested capacity (in MW) of Interconnection Service (if lower than the Generating Facility Capacity).	
6.	App	licable deposit amount as specified in the LGIP.	
7.	Evid	lence of Site Control as specified in the LGIP (check one) Is attached to this Interconnection Request Will be provided at a later date in accordance with this LGIP	
8.	This	Interconnection Request shall be submitted to the representative indicated below:	

Filed on: March 2, 2022

[To be completed by Transmission Provider]

9. Representative of Interconnection Customer to contact:

	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:

Attachment A to Appendix 1 Interconnection Request

LARGE GENERATING FACILITY DATA

UNIT RATINGS

kVA °F	Voltage	
~ —		
Speed (RPM)	Con	nection (e.g. Wye)
Short Circuit Ratio	Frequency,	Hertz
Stator Amperes at Rated kVA	Field Volts	
Power Factor Speed (RPM) Short Circuit Ratio Stator Amperes at Rated kVA Max Turbine MW	Ή	
Primary frequency response operati	ing range for electric	
Minimum State of Charge:		
Maximum State of Charge:		
COMBINED TURBIN	NE-GENERATOR-F	EXCITER INERTIA DATA
Inertia Constant, H =	kW sec	:/kVA
Inertia Constant, $H = $ Moment-of-Inertia, $WR^2 = $		lb. ft. ²
REACTANO	CE DATA (PER UN	IT-RATED KVA)
	DIRECT AXIS	QUADRATURE AXIS
Synchronous – saturated	X_{dv}	X_{qv}
Synchronous – unsaturated	X_{di}	X_{qi}
Transient – saturated	X'_{dv}	$X'_{ m qv}$
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		
Zero Sequence – saturated	$X0_{ m v}$	
Zero Sequence – unsaturated	$X0_i$	
Leakage Reactance	X1 _m	

FIELD TIME CONSTANT DATA (SEC)

Open Circuit Three-Phase Short Circuit Transi Line to Line Short Circuit Transi Line to Neutral Short Circuit Tra Short Circuit Subtransient Open Circuit Subtransient	ient ient insient	Γ' _{do} Γ' _{d3} Γ' _{d2} Γ' _{d1} Γ'' _{d0}		T' _{qo} T' _q T'' _q T'' _{qo}
ARMAT	URE TIME	CONST	ANT DAT	'A (SEC)
Three Phase Short Circuit Line to Line Short Circuit Line to Neutral Short Circuit	$\begin{array}{ccc} T_{a3} & _ \\ T_{a2} & _ \\ T_{a1} & _ \end{array}$			
NOTE: If requested information	is not applica	able, indi	cate by ma	rking "N/A."
MW CAPAE LARG	BILITY ANI E GENERA			
ARMATURE V	VINDING R	ESISTA	NCE DAT	'A (PER UNIT)
$\begin{array}{cccc} \text{Positive} & & R_1 & & \\ \text{Negative} & & R_2 & & \\ \text{Zero} & & R_0 & & & \\ \end{array}$				
Rotor Short Time Thermal Capac Field Current at Rated kVA, Arn Field Current at Rated kVA and Three Phase Armature Winding Field Winding Resistance = Armature Winding Resistance (P	nature Voltag Armature Vo Capacitance ohms	oltage, 0 I =°C	PF = microfa	amps rad

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 Ra	tio(Generator Side/System side/Tertiary)		
	`	kV	
Winding Co	onnections (Low V/High V/Tertiary V (Delta	• //	
Fixed Taps	Available		
Present Tap	Setting		
	IMPEDANCE	C	
Positive	Z ₁ (on self-cooled kVA rating)	%	X/R
7ero	Zo (on self-cooled kVA rating)	0/0	Y/R

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

Filed on: March 2, 2022 7

they shall be provided and discussed at Scoping Meeting.

INDUCTION GENERATORS

(*) Field Volts:	
(*) Field Amperes:	
(*) Motoring Power (kW):	
(*) Neutral Grounding Resistor (If Ap	oplicable):
(*) 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:	
Note: Please consult Transmission Production designated determine if the information designated at the control of the control	ovider prior to submitting the Interconnection Request to ed by (*) is required.
SO	OLAR GENERATORS
Number of generators to be interconn	ected pursuant to this Interconnection Request:
Inverter manufacturer, model name, n	number, and version:
List of adjustable setpoints for the pro	otective equipment or software:
Note: A completed General Electric	Company Power Systems Load Flow (PSLF) data sheet

Note: A completed General Electric Company Power Systems Load Flow (PSLF) data sheet 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.

8

Filed on: March 2, 2022