

	Direct axis	Quadrature axis
Reactance Data (Per Unit-Rated KVA):		
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	X _{2v} _____	
Negative Sequence—unsaturated	X _{2i} _____	
Zero Sequence—saturated	X _{0v} _____	
Zero Sequence—unsaturated	X _{0i} _____	
Leakage Reactance	X _{lm} _____	
Field Time Constant Data (Sec):		
Open Circuit	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	Ta ₃ _____	
Line to Line Short Circuit	Ta ₂ _____	
Line to Neutral Short Circuit	Ta ₁ _____	

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 R₁ _____

Negative R₂ _____

Zero R₀ _____

Rotor Short Time Thermal Capacity I²t = _____

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.

Generator Step-Up Transformer Data

Ratings

Capacity Self-cooled/maximum
nameplate
_____ kVA

Voltage Ratio Generator side/System side
_____ kV

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

Fixed Taps Available _____

Present Tap Setting _____

Impedance

Positive Z₁ (on self-cooled kVA
rating) _____ % _____ X/R

Zero Z₀ (on self-cooled kVA rating)
_____ % _____ X/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 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.

Induction Generators

(*) Field Volts: _____
(*) Field Amperes: _____
(*) Motoring Power (kW): _____
(*) Neutral Grounding Resistor (If Applica-
ble): _____
(*) I₂t 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.

Appendix 2 to LGIP—Interconnection Feasibility Study Agreement

This Agreement is made and entered into
this _____ day of _____, 20____ by and
between _____, a _____ organized and
existing under the laws of the State
of _____, ("Interconnection Customer,")
and _____ a _____ existing under the
laws of the State of _____, ("Transmission
Provider"). Interconnection Customer and
Transmission Provider each may be referred
to as a "Party," or collectively as the
"Parties."

Recitals

Whereas, Interconnection Customer is
proposing to develop a Large Generating
Facility or generating capacity addition to an
existing Generating Facility consistent with
the Interconnection Request submitted by the
Interconnection Customer dated _____;
and

Whereas, Interconnection Customer desires
to interconnect the Large Generating Facility
with the Transmission System; and

Whereas, Interconnection Customer has
requested the Transmission Provider to
perform an Interconnection Feasibility Study
to assess the feasibility of interconnecting the
proposed Large Generating Facility to the