

Attachment C

BEHIND-THE-METER GENERATION INTERCONNECTION REQUEST FORM

Contact Information

1. Primary Company/Customer Name:
Phone No: () Email:
2. Secondary Company/Customer Name:
Phone No: () Email:
General Project Information
General Project Information Project Address:
Project Address:



Synchronous Generator

Unit Ratings

kVA:	Rated °F:	Voltage (kV):	
Power Factor:		Speed (RPM):	
Frequency (Hz):	_		
Field Volts:			
Max Unit Rating (MW):	@	°F	
Number of Units:	_		
Stator Amperes at Rated k	VA:		

Reactance Data (Per Unit-Rated kVA) Direct Axis Quadrature Axis

_
_
_
_
_
_

Field Time Constant Data (Sec)

Open Circuit	T'do	T'qo
Three-Phase Short Circuit Transient	T'd3	T'q
Line–Line Short Circuit Transient	T' _{d2}	
Line–Neutral Short Circuit Transient	T' _{d1}	
Short Circuit Subtransient	T"d	T"q
Open Circuit Subtransient	T" _{do}	Т" _{qo}

Time Constant Data (Sec)

Three Phase Short Circuit	T _{a3}	
Line to Line Short Circuit	T _{a2}	
Line to Neutral Short Circuit	T _{a1}	

MW Capability and Plant Configuration Armature Winding Resistance Data (Per Unit)

Positive	R1	
Negative	R ₂	
Zero	Ro	

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 =microfara	d
Field Winding Resistance = ohms °C	
Armature Winding Resistance (Per Phase) =ohms	°C



Inverter Based Resource

Unit Ratings

Individual Inverter Nan	neplate Capability:	MVA @°F
Number of Inverters:		
Gross Facility Capabili	ty: MVA @ _	°F
Power Factor:	Leading / La	agging
Station Service Load:	MW	_MVAR

Battery Energy Storage System Specific

Individual Storage Unit Rating:	MW	Hours
Gross Energy Storage Rating:	MW-Hr	
Maximum State of Charge:	PU	
Minimum State of Charge:	PU	

Collector System Equivalent

Collector System Collector System Collector System Ohms):	Equivalent	Rating:		
1. $R_1 = $ 2. $X_1 = $ 3. $B_1 = $ 4. $R_0 = $ 5. $X_0 = $ 6. $B_0 = $	PU on 100 PU on 100 PU on 100 PU on 100	MVA base MVA base MVA base MVA base	(positive sequen (positive sequen (zero sequence)	ce) ce)
	Inve	erter Step-U	p Transformer	
Number of Trans	formers:			
Two-Winding Ste	p-Up Trans	former Data	(as applicable):	
Rating (ONAN/O Nominal Voltage				MVAkV

Winding Connections (Hi	gh / Low): [Delta/Wy	é/Wye-Gro	und] / [D	elta/Wye	/Wye-
Ground]						
Available Tap Positions:	/_	/	/_	/		kV or
-	9	, 0	# of taps			



Positive Sequence Impedance Z₁: _____%, _____X/R on self-cooled (ONAN) transformer MVA base Zero Sequence Impedance Z₀: ______%, _____X/R on self-cooled (ONAN) transformer MVA base

Three-Winding Step-Up Transformer Data (as applicable):

	H Winding	X Winding	Y Winding	
Rated Voltage (kV)				
Winding Connection (Delta/Wye/Wye- Ground)				
Ratings (MVA) ONAN/ONAF/ONAF	//	//	//	
Tap Positions Available	/kV	/kV	//kV	

	H-X Winding Data	H-Y Winding Data	X-Y Winding Data
Base for			
Impedances			
(MVA)			
Positive			
Sequence	%X/R	%X/R	%X/R
Impedance (Z ₁)			
Zero Sequence	% X/R	% X/R	% X/R
Impedance (Z ₀)	/0//N	/0//K	/0//N



Facility Equipment Data

Proposed Interconnection Tie Line

Line Voltage: kV
Line Rating: MVA @ °F
Line Length: Miles
Line Impedance (values can NOT be provided in Ohms):
 R₁ = PU on 100 MVA base (positive sequence)
 X₁ = PU on 100 MVA base (positive sequence)
 X₁ = PU on 100 MVA base (positive sequence) B₁ = PU on 100 MVA base (positive sequence)
4. $R_0 =$ PU on 100 MVA base (zero sequence) 5. $X_0 =$ PU on 100 MVA base (zero sequence)
5. X ₀ = PU on 100 MVA base (zero sequence)
6. B ₀ = PU on 100 MVA base (zero sequence)
Site Main Transformer
Number of Transformers:
Two-Winding Main Transformer Data (as applicable):
Rating (ONAN/ONAF/ONAF): / / MVA Nominal Voltage for each winding (High / Low): / kV
Winding Connections (High / Low): [Delta/Wye/Wye-Ground] / [Delta/Wye/Wye-
Ground]
Available Tap Positions: / / / / kV or kV or
01 taps
Positive Sequence Impedance Z ₁ : %, X/R on self-cooled
(ONAN) transformer MVA base
Zero Sequence Impedance Z ₀ : %, X/R on self-cooled
(ONAN) transformer MVA base

Three-Winding Main Transformer Data (as applicable):

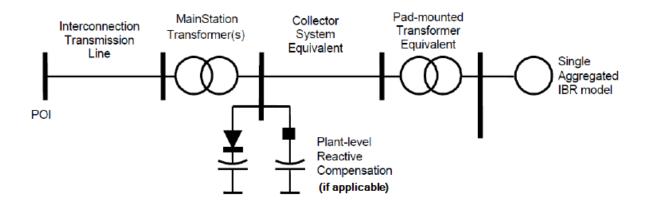
	H Winding	X Winding	Y Winding
Rated Voltage (kV)			
Winding Connection (Delta/Wye/Wye- Ground)			
Ratings (MVA) ONAN/ONAF/ONAF	//	//	//
Tap Positions Available	//kV	//kV	//kV

	H-X Winding Data	H-Y Winding Data	X-Y Winding Data
Base for			
Impedances			
(MVA)			
Positive			
Sequence	%X/R	%X/R	%X/R
Impedance (Z ₁)			
Zero Sequence	% X/R	% X/R	% X/R
Impedance (Z ₀)	/0//K	/0//K	/0//R

	AMP Transmission	Revision: 01
	Transmission Facilities Interconnection	Last Updated:
	Requirements	8/1/2024
	Plant Reactive Power Compensation (if applicable)	
Type of R Individual	eactive Compensation Device(s): Fixed Shunt Reactive Device Type: Number and Size: x	 MVA
Dynamic Control R Control M	Reactive Control Device (e.g. SVC, STATCOM): ange: MVAR (lead) to MVAR (lag) ode (e.g. voltage, power factor, reactive power): n Point:	
Maximum	uit Contribution at POI Three Phase Fault Current: Amps & Duration: Single Line–Ground Fault Current: Amps & _	
Fault X/R Inverter E Short-Circ Short-Circ Short-Circ Short-Circ Short-Circ	Duration: Ratio: MVA quivalent Base: MVA cuit Equivalent Positive Sequence Resistance: cuit Equivalent Positive Sequence Reactance: cuit Equivalent Negative Sequence Resistance: cuit Equivalent Negative Sequence Reactance: cuit Equivalent Zero Sequence Resistance: cuit Equivalent Zero Sequence Reactance:	PU PU PU PU PU PU PU

AMP TRANSMISSION	AMP Transmission	Revision: 01
	Transmission Facilities Interconnection	Last Updated:
	Requirements	8/1/2024

Modeling Requirements



Facility modeling data must be provided for use in PSSE v35, however it is the Interconnecting Party's responsibility to verify the latest software version being utilized. All equipment ratings and impedance data must be provided within the model file. An example of an IBR SMIB model is displayed above for reference.

Documentation Requirements

Provide as much documentation as possible as is applicable to the generation technology utilized.

- 1. Facility One-Line Diagrams
- 2. Generation Equipment Datasheets
- 3. Reactive Capability Curve
- 4. Temperature Correction Curves
- 5. Saturation Curve