Application for Small Generator Facility Interconnection Tier 2, Tier 3 or Tier 4 Interconnection

(See ARSD chapter 20:10:36 for the requirements for a Tier 2, Tier 3, or Tier 4 Interconnection.)

Applicant/Interconnection Customer Contact Information:

Name:			
Mailing Address:			
City:		State:	Zip Code:
Telephone (Daytime):		_(Evening): _	
Facsimile Number:			
E-Mail Address:			
Address of Customer F Interconnected: (if different from above)	acility Where Sn	nall Generat	or Facility will be
Street Address:			
City:	_ State:	Zip Code	2:
System Installer/Consu	<u>lting</u> Engineer:		
Name:			
Mailing Address:			
City:	State		Zip Code:
Telephone (Daytime):		(Evening):	
Facsimile Number:			

Electric Service Information for Applicant's Facility Where Generator Will Be Interconnected:

Capacity:(A	Amps) Volt	age:	(Volts)
Type of Service: Sing	gle Phase	Three Phase	е
If Three-Phase Transform	mer, Indicat	te Type: 🗌 Wye	🗌 Delta

Requested Procedure Under Which to Evaluate Interconnection Request:

Please indicate below which review procedure applies to the interconnection request.

Tier 2 - Certified interconnection equipment with an aggregate Electric Nameplate Capacity of 2 MW or less. Indicate type of certification below. The application fee amount is __________________________________(\$50 plus \$1 per KW of rated generation output up to a maximum of \$500).

- Lab Tested -- tested to IEEE 1547.1 and other specified standards by a nationally recognized testing laboratory and is appropriately labeled.
- ☐ <u>Field Tested</u> an identical small generator facility has been approved by the Public Utility under a Tier 4 study review process within the prior 36 months of the date of this interconnection request.

Tier 3 – A Small Generator Facility connected to the EDS that does not export power. The Electric Nameplate Capacity rating must be 50 KW or smaller if connecting to an area network, or 2 MW or smaller if connecting to a radial distribution feeder. The application fee amount is ______ (\$100 plus \$2 per KW of rated generation output up to a maximum of \$1,000).

Tier 4 – Electric Nameplate Capacity rating is 10 MW or smaller and the Small Generator Facility does not qualify for a Tier 1, Tier 2, or Tier 3 review or has been reviewed but not approved under a Tier 1, Tier 2, or Tier 3 review. Application fee amount is ______(\$100 plus \$2 per KW of rated generation output up to a maximum of \$1,000).

Field Tested Equipment:

If the field tested equipment box is checked above, please include with the completed application the following information which will be required for review of Tier 2 field tested small generator facilities:

- A copy of the Certificate of Completion, signed by the Public Utility that has approved an identical small generator facility for parallel operation.
- A copy of all documentation submitted to the Public Utility that approved the Small Generator Facility for parallel operation under a Tier 4 study process.
- A written statement by the Applicant indicating that the small generator facility being proposed is identical, except for Minor Equipment Modification, to the one previously approved by the Public Utility for parallel operation.
- If a Tier 2 Application utilizing Field Tested equipment is proposed, the remainder of the application will not be required to be completed.

Small Generator Facility Information:

List interconnection components/system(s) to be used in the Small Generation Facility that is lab certified (required for Lab Tested, Tier 2 Interconnection requests only).

Component/System NRTL Providing Lab	el & Listing
1	
2	
3	
4	
5	
Please provide copies of manufacturer brochures or technical specie	ications.
Energy Production Equipment/Inverter Information:	
Synchronous Induction Inverter Other	
Electric Nameplate Rating: KW kVA	
Rated Voltage:Volts	
Rated Current:Amps	
System Type Tested (Total System): Yes No (attach product lite	rature)
For Synchronous Machines:	
Manufacturer:	
Model No.: Version No.:	
Submit copies of the Saturation Curve and the Vee Curve.	
Salient Non-Salient	
Torque: lb-ft Rated RPM:	
Field Amperes: at rated generator voltage and current and	% PF
over-excited	
Type of Exciter:	
Output Power of Exciter:	
Type of Voltage Regulator:	
Locked Rotor Current: Amps	
Synchronous Speed:RPM	
Winding Connection:	
Min. Operating Frequency/Time:	
Generator Connection: Delta Wye Wye Grounded	
Direct-axis Synchronous Reactance: (Xd)ohms	
Direct-axis Transient Reactance: (X'd)ohms	
Direct-axis Sub-transient Reactance: (X-"d)ohms	
For Induction Machines:	
Manufacturer:	
Model No.: Version No.:	
Locked Rotor Current: Amps	
Rotor Resistance: (Rr) ohms Exciting Current: Amps	

Rotor Reactance: (Xr)ohms Reactive Power Required:	_
Magnetizing Reactance: (Xm)ohms VARs (No Load)	
Stator Resistance: (Rs)ohms VARs (Full Load)	
Stator Reactance: (Xs)ohms	
Short Circuit Reactance: (X'd)ohms	
Phase: 🗌 Single 🗌 Three-Phase	
Frame Size: Design Letter: Temp. Rise:	_°C.
Reverse Power Relay Information: (This section applies to Tier 3 Re	eview only.)
Manufacturer:Model:	
Electric Nameplate Capacity rating: (kVA)	
Additional Information For Inverter Based Facilities:	
Inverter Information:	
Manufacturer: Model:	
Type: 🗌 Forced Commutated 🛛 Line Commutated	
Electric Nameplate Capacity Rated Output: Amps	Volts
KW	
Efficiency:% Power Factor:%	
DC Source / Prime Mover:	
Solar Wind Hydro Other	
Electric Nameplate Capacity Rating: KW Rating:	KVA
Rated Voltage:Volts Open Circuit Voltage (if applicable):Volts	
Rated Current:Amps	
Short Circuit Current (If applicable):Amps	
Other Facility Information:	
Is Facility a Qualified Facility? Yes 🗌 No 🗌	
If yes, has Applicant completed FERC's "Notice of Self Certification"? Y	es 🗌 🛛 No 🗌
One Line Diagram attached: 🗌 Yes 🗌 No	
Plot Plan attached: 🗌 Yes 🗌 No	
Installation Test Plan attached: Yes No	
Estimated Commissioning Date (if known):	

Applicant Signature:

I hereby certify that all of the information provided in this application request form is correct.

Applicant Signature:	
Title:	_ Date:

An application fee is required before the application can be processed. Please verify that the appropriate fee is included with the application:

Application	fee	included:	
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Tier 2, 3, or 4 Interconnection Request Acknowledgement

I hereby acknowledge the receipt of an Interconnection Request and Application Fee.

Approval for a Tier 2, Tier 3, or Tier 4 Small Generator Facility interconnection is contingent upon the Applicant's Small Generator Facility passing the screens and completing the review process set forth in ARSD chapter 20:10:36 and is not granted by the Public Utility's signature on this Application form.

Public Utility Signature: _____ Date: _____

Printed Name: _______Title: ______

Note: The Public Utility shall retain a copy of this completed and signed form and return the original and any attachments to the Applicant.