Instructions

Interconnection Customer declares its intention to interconnect with the AEP Distribution System.

In order for the Distributed Resource to be considered for interconnection to AEP’s Distribution System, Interconnection Customer must submit (1) a completed Interconnection Request (The Interconnection Request shall be deemed complete when the required information has been provided by Interconnection Customer), and (2) the appropriate non-refundable application fee.

If requested information is not applicable, indicate by using "N/A”.

Additional information to evaluate an Interconnection Request may be required by AEP as the application process proceeds.

Return Completed Application to: Nathan Tronnier
Public Service Company of Oklahoma
212 E 6th St
Tulsa OK 74119-1212

Application Fee

Indicate the amount of fee enclosed: $__________

Section 1 Interconnection Customer Information

Indicate Distributed Resource size: _____ Up to 30 kW
____ 30 - 149 kW
____ 150 - 749 kW
____ 750 - 1,999 kW
____ 2,000 kW and greater

Application is for: _____ New Distributed Resource Facility
______ Capacity addition to Existing Distributed Resource Facility

If capacity addition to existing facility, please describe:

________________________________________________________________________
________________________________________________________________________

Legal Name of Interconnection Customer (or, if an Individual, Individual’s Name)
Name: __________________________________________________________________

Mailing Address: _________________________________________________________

City: ___________________________ State: _______ Zip: _______

Generating Facility Location (if different from above):
________________________________________________________________________
________________________________________________________________________

Requested Point of Interconnection:
________________________________________________________________________
________________________________________________________________________

If the requested point of interconnection is the same as an existing electric service, provide the electric service account number.
_________________________________________________

Proposed In-Service Date: ________________

Telephone:       Daytime: ________________ Evening: ________________

E-Mail Address: ___________________________ Fax: _______________________

**Alternative Contact Information (If different from Interconnection Customer information above)**

Contact Name: __________________________________________________________________

Title: __________________________________________________________

Mailing Address:
________________________________________________________________________

City: ___________________________ State: _______ Zip: _______

Telephone:       Daytime: ________________ Evening: ________________

E-Mail Address: ___________________________ Fax: _______________________

Contact Name: __________________________________________________________________

Title: ______________________________________________________________________

Mailing Address:
________________________________________________________________________
Section 2  Generator Qualifications

Energy Source:  ___Diesel  ___Hydro [Specify Type (e.g., Run-of-River)]  ____________

___ Fuel Oil  ___Natural Gas  ___Solar  ___Wind

___Other (Specify)  ______________________________________________________________

Type of Generator:
___Synchronous  ___Induction  ___DC Generator with Inverter/Converter

Generator Nameplate Rating: ___________kW (Typical)

Generator Nameplate KVA: _____________

Interconnection Customer or Customer-Site Load:

_________ kW (if none, so state) (Typical)

_________ kVAR (Reactive Load, if known)

Maximum physical export capability requested: ___________ kW
List components of the Generating Facility that are Pre-certified

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<th>Equipment Type</th>
<th>Pre-certifying Entity</th>
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Section 3 Generator Technical Information

A completed load flow data sheet must be supplied with the Interconnection Request.

Distributed Resource manufacturer, model name, number, and version:

Nameplate output power rating in kW:  *(Summer)* _________ *(Winter)* _________

Nameplate output power rating in KVA:

  *(Summer)* _________ *(Winter)* _________

Individual generator power factor:  Rated power factor leading: ____________

Rated power factor lagging: ____________
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 set points for the protective equipment or software:

_______________________________________________________________________

_______________________________________________________________________

Distributed Resource Facility Characteristic Data (for rotating machines)

Synchronous and Induction Generators:

Direct Axis Transient Reactance, $X'_d$: _______ P.U.

Direct Axis Unsaturated Transient Reactance, $X'd_i$: _______ P.U.

Direct Axis Subtransient Reactance, $X''_d$: _______ P.U.

Generator Saturation Constant (1.0): ____________

Generation Saturation Constant (1.2): ____________

Negative Sequence Reactance: _________ P.U.

Zero Sequence Reactance: _________ P.U.

KVA Base: _________________________

RPM Frequency: ____________
Induction Generators:

(*) Field Volts: _________________

(*) Field Amperes: _____________

(*) Motoring Power (kW): ______

(*) Neutral Grounding Resistor (If Applicable): _____________

(*) $I^2t$ 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 Load): ______

(*) Reactive Power Required In Vars (Full Load): ______

(*) Total Rotating Inertia, H: _______Per Unit on KVA Base

Note: Please consult AEP prior to submitting the Interconnection Request to determine if the information designated by (*) is required.
**Excitation and Governor System Data** *(for Synchronous Generators only)*

If determined to be required, provide appropriate IEEE model block diagram of excitation system, governor system, and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

**Section 4. Interconnecting Equipment Technical Data Information**

Will a transformer be used between the Distributed Resource and the Point of Interconnection? ____Yes   ____No

**Transformer Data for Interconnection Customer-Owned Transformer** *(if applicable)*

_Load loss watts values will be estimated at 5-10% of nameplate impedance if load loss watts values are not specified._

The transformer is:   ____single phase   ____three phase   Size: _____ KVA

Transformer impedance: ______% on _______ KVA Base

If Three Phase:

Transformer Primary: _______ Volts   ___Delta ____ Wye _____Wye Grounded

Transformer Secondary: _______ Volts   ___Delta ____ Wye _____Wye Grounded

**Transformer Fuse Data for Interconnection Customer-owned Fuse** *(if applicable)*

______________________________________________________________

Note: Please attach a copy of fuse manufacturer's minimum melt and total clearing time-current curves

Fuse Manufacturer: ________________________________________________

Type: _______________ Size: _______________ Speed: _______________
**Interconnecting Circuit Breaker (if applicable)**

Manufacturer: ____________________________________________________________

Type: _________ Load Rating (Amps): _________ Interrupting Rating (Amps): _________

Trip Speed (Cycles): _______

**Interconnection Protective Relays (if applicable)**

*Note: Please attach a copy of any proposed time-overcurrent coordination curves*

Manufacturer: ____________________________________________________________

Type: ____________ Style/Catalog No.: ____________ Proposed Setting: __________

Manufacturer: ____________________________________________________________

Type: ____________ Style/Catalog No.: ____________ Proposed Setting: __________

Manufacturer: ____________________________________________________________

Type: ____________ Style/Catalog No.: ____________ Proposed Setting: __________

Manufacturer: ____________________________________________________________

Type: ____________ Style/Catalog No.: ____________ Proposed Setting: __________

Manufacturer: ____________________________________________________________

Type: ____________ Style/Catalog No.: ____________ Proposed Setting: __________

**Current Transformer Data (if applicable)**

*Note: Please attach a copy of manufacturer's excitation & ratio correction curves*

Manufacturer: ____________________________________________________________

Type: ____________ Accuracy Class: ____________ Proposed Ratio Connection: ____/5

Manufacturer: ____________________________________________________________

Type: ____________ Accuracy Class: ____________ Proposed Ratio Connection: ____/5
Potential Transformer Data *(if applicable)*

Manufacturer: ____________________________________________________________

Type: ___________ Accuracy Class: ___________ Proposed Ratio Connection: ___/5

Manufacturer: ____________________________________________________________

Type: ___________ Accuracy Class: ___________ Proposed Ratio Connection: ___/5

Section 5. General Information

_____ Attached is a one-line diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes.

_____ Attached is site documentation that indicates the precise physical location of the proposed generating facility *(e.g., USGS topographic map or other diagram or documentation)*.

_____ Attached is documentation that describes and details the operation of the protection and control schemes.

Proposed location of protective interface equipment on property *(Include address if different from Interconnection Customer’s address)*:

________________________________________________________________________
________________________________________________________________________

_____ Attached are copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits *(if applicable)*.

_____ Attached is Site Control documentation.

Does Interconnection Customer currently have control of the site? _____ Yes _____ No
Section 6. Signature

I hereby certify that, to the best of my knowledge, all the information provided in this Interconnection Request is true and correct. For Interconnection Customer:

Print Name:
_________________________________________________________________

Signature:_________________________________________________________

Date: _____________________