



APPLICATION FOR INTERCONNECTION WITH
THE
AMERICAN ELECTRIC POWER
DISTRIBUTION SYSTEM

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:

City: _____ State: _____ Zip: _____

Telephone: Daytime: _____ Evening: _____

E-Mail Address: _____ Fax: _____

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

Equipment Type	Pre-certifying Entity

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'_{di} : _____ 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_2^2t 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: _____