



Cuming County Public Power District

Distribution Generation Policies/Procedures/Rates

Exhibit A

Application to Construct Distributed Generation (DG) Interconnection

And

Exhibit A – Addendum 1

APPLICATION FOR CUMING COUNTY PUBLIC POWER DISTRICT APPROVAL TO CONSTRUCT DISTRIBUTED GENERATION (DG) INTERCONNECTION

The Distributed Generation (DG) Owner (herein described as "Owner") requests Cuming County PPD approval to construct and operate Distributed Generation (DG) equipment in closed transition (parallel) with the Cuming County PPD system in accordance with and as defined in the latest version of the Cuming County PPD Distributed Generation Interconnection Manual.

DG Facility Owner and/or Operator Information:

DG Facility Owner: _____
Cuming County PPD Service Account Number (if known): _____
Address: _____ City: _____ State: _____ Zip: _____
Day Phone: _____ Night Phone: _____ Fax: _____
Email: _____

DG Facility Operator (if different than above): _____
Address: _____ City: _____ State: _____ Zip: _____
Day Phone: _____ Night Phone: _____ Fax: _____
Email: _____

Facility Design/Engineering:

Company: _____
Representative: _____
Address: _____ City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ Email: _____

Facility Electrical Contractor:

Company: _____
Representative: _____
Address: _____ City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ Email: _____

DG Facility Information:

DG Facility Name: _____
Address: _____ City: _____ State: _____ Zip: _____

Service Entrance Voltage/Phase: _____

DG Facility Load Information:

(The following load information will be used for interconnection design purposes. The information is not intended as a commitment or contract for billing purposes)

Minimum anticipated DG facility load (generation not operating)

kW: _____ kVA: _____

Maximum anticipated DG facility load (generation not operating)

kW: _____ kVA: _____

Distributed Generation/Equipment Information (attach manufacturer's data):

Description of number and type of generating units: _____

Generator Manufacturer(s)/Models: _____

Generator Ratings (indicate per unit/combined)

Peak rated output _____ / _____ kW _____ / _____ kVA

Continuous rated output _____ / _____ kW _____ / _____ kVA

Power Factor _____ (circle) – lead / lag fixed / variable

Generator unit output voltage: _____ Phase 1 ___ 3 ___

Inverter Data (if applicable):

Direct Energy Converter/Inverter/Static Power Converter (Circle one) NA/Synchronous/Induction

for synchronous: Grounding Resistor Y / N Resistor size or current limit _____

Generator sub transient reactance: _____

for induction: VAR source and location (if req'd) _____

Transformer (if applicable):

If transformer(s) will exist between the generation and the facility service entrance/interconnection point, describe transformer(s) (voltage, windings (wye-wye, etc.), type, taps, ratings) and attach manufacturer's data _____

Classification:

Owner requests Classification of Interconnection as (check one):

___ Class I Type A

___ Class I Type B

___ Class II

___ Class III

Duration of Parallel Operation:

Owner requests Duration of Parallel Operation (check one):

Approve as Momentary Approve as Sustained

Power Transfer:

Does the DG Facility Owner intend the DG facility to export power to the Cuming County PPD system now, or at any time in the future? (circle one): YES / NO

Owner Requests Description of Power Transfer as (check one and complete Kw):

Import-only kW level for parallel operation = _____ kW
kW export level = 0 kW

Import/Export kW level for parallel operation = _____ kW
kW export level = _____ kW

Export Only kW level for parallel operation = _____ kW
kW export level = _____ kW

Comments: _____

Paralleling Equipment:

Description of number and type of paralleling switchgear or momentary transfer switch(es) (attach manufacturer's data) _____

NOTE: Cuming County PPD requires a lockable disconnect to be located within 10' of the Cuming County PPD meter on an independent support structure.

Interconnection Breaker (if applicable):

Description of interconnection breaker(s) and installed location(s) (attach manufacturer's data) _____

Protective Relaying:

Description of protective relaying (attach manufacturer's data – see 'submittals' below) _____

Schedule:

Date scheduled for start of DG Installation / construction _____

Date scheduled for completion of installation / construction _____

Submittals:

Submit the following documents with this application:

- A site plan and floor plan of the proposed DG facility and/or installation indicating installed DG equipment locations.
- A one-line diagram of the proposed generator installation on the Owner's electric system, noting all bus voltages, conductor properties, generating equipment, interconnection point(s), and interconnection disconnecting device(s). Note: Cuming County PPD may require this document bear the stamp of a Professional Electrical Engineer registered in the state where the project is being constructed.
- A schematic diagram of the proposed protective relay scheme indicating CT and PT monitoring points and protective functions provided (when required): Please contact Cuming County PPD in advance for assistance in determining Cuming County PPD's protective relay requirements for specific applications. If available at time of application, provide AC and DC elementary/wiring drawings and relay settings (with calculations and assumptions).
- Note: Cuming County PPD may require these documents bear the stamp of a Professional Electrical Engineer registered in the state where the project is being constructed.
- Detail sheets/catalog cuts of information on the generator, interconnection disconnect switch, interconnection breaker, interconnection switchgear, or other related equipment.

Comments: _____

By submitting this application, the Owner agrees to the following:

- The Owner has reviewed, is familiar with, and agrees to comply with all requirements of the Cuming County PPD DG Manual
- The Owner has reviewed and is familiar with the terms of the 'Utility Service Termination Clause' for failing to meet and maintain requirements for interconnection, as outlined in the DG Manual.
- The Owner has reviewed and is familiar with 'Interconnection Expenses' section of the Cuming County PPD DG Manual, and is aware of and agrees to comply with the Owner's financial obligations to Cuming County PPD, incurred by the addition of this new DG capacity.
- At no time will the new DG equipment be allowed to operate in closed transition with the Cuming County PPD system until the 'Cuming County PPD Agreement for Closed Transition Operation of Distributed Generation' is executed between the Owner and Cuming County PPD. This includes momentary closed transitions between the Owner's generation and the Cuming County PPD system for testing or calibration purposes. The only exception is if the DG installation is essentially complete, Cuming County PPD has been notified in advance of the intention to operate in parallel, and a Cuming County PPD representative is present to witness the closed transition operation. Note such witness tests do not necessarily take the place of the final 'Witness Test' outlined in the Cuming County PPD Agreement for Closed Transition Operation of Distributed Generation'. **Owner shall be liable for any and all damages and expenses incurred by Cuming County PPD and its customers due to the unauthorized or improper closed transition operation of Owner generation with the Cuming County PPD system.**
- The operation of this Owner equipment during the test period and subsequent normal operation shall not cause objectionable electrical disturbances external to the DG facility.
- All members of the Owner's construction project team (including contractors, engineers, and suppliers) and all DG facility operating personnel will be made aware of the terms of the Cuming County PPD DG Manual and this application.

FOR THE CONTRACTOR:

Printed _____
Signed this _____ Day of _____, _____

FOR THE DG FACILITY OWNER:

Printed _____
Title _____
Signed this _____ Day of _____, _____

THIS AREA FOR CUMING COUNTY PPD USE ONLY

The Owner has provided the following required documents for Cuming County PPD review.

-completed 'Application for Approval to Construct' form	rec'd _____
-one-line diagram	rec'd _____
-a schematic diagram of the relay scheme (when required)	rec'd _____
-data sheets for generator and other equipment	rec'd _____
-other _____	rec'd _____

Classification of Interconnection (check one):

<input type="checkbox"/> Class I Type A	Induction generators or line commutated power converters with rated capacity 50 kW or below
<input type="checkbox"/> Class I Type B	Induction generators or line commutated power converters with rated capacity above 50 kW
<input type="checkbox"/> Class II	Generation equipment interconnected at or below 15 kV or with a rated capacity below 5 MW
<input type="checkbox"/> Class III	Generation equipment interconnected in excess of 15 kV or with a rated capacity in excess of 5 MW
<input type="checkbox"/> N/A (open transition)	DG Manual requirements do not apply for open transition
<input type="checkbox"/> N/S (rejected)	Network service or other

Duration of Parallel Operation (check one):

<input type="checkbox"/> Approved as Momentary	(Interconnection disconnect required, interconnection breaker not required, minimal protective relaying required)
<input type="checkbox"/> Approved as Sustained	(Interconnection disconnect required, interconnection breaker may be required, protective relaying may be required)

Description of Power Transfer (check one):

<input type="checkbox"/> Import-only	Kw level for parallel operation	= _____ kW
	Kw export level	= _____ kW
<input type="checkbox"/> Import/Export	kw level for parallel operation	= _____ kW
	Kw export level	= _____ kW
<input type="checkbox"/> Export Only	Kw level for parallel operation	= _____ kW
	Kw export level	= _____ kW

Interconnection Description/Voltage, Transmission/Distribution, ATO, transformer, _____

Cuming County PPD Internal Department Comments:

Additional Cuming County PPD studies required? (circle) **Y / N**

Description of required studies: _____

Modification to the Cuming County PPD system required? (circle) **Y / N**

Description of required modifications: _____

Does Cuming County PPD require reimbursement for Interconnection Expenses? (circle) **Y / N**

Description of required reimbursement items, with costs: _____

Monthly Minimum Charge: \$1.40 per kVA = \$1.40 X ____ kVA = \$ _____

Cuming County PPD minimum charges are currently calculated at \$1.40 per kVA of required transformer capacity and subject to change by action of the Cuming County PPD Board of Directors. When appropriate, a contracted minimum may apply.

Telemetry required **Y / N**

Description of telemetry required: _____

Additional information submitted by Owner upon Cuming County PPD request **Y / N**

Description of additional information submitted: _____

Owner Agreement to Cuming County PPD Stipulations:

Cuming County PPD requires the following studies/modifications/reimbursements:

The Owner agrees to modify the facility design and to reimburse Cuming County PPD as requested for studies and Cuming County PPD system modifications described above:

FOR THE DG FACILITY OWNER:

Printed: _____

Title: _____

Signed this ____ Day of _____, _____

Cuming County PPD hereby grants permission to the above-named Owner to proceed with the DG interconnection installation as specified above. Any unapproved changes to the interconnection shall void this agreement. This agreement is nontransferable. This approval is only for the construction of the interconnection and does not convey Cuming County PPD approval of the operation, functionality of the design, nor Cuming County PPD permission to operate the DG unit(s) in parallel with Cuming County PPD.