



**Town of Clayton**  
**Generator Interconnection Application**  
**Long Form**  
**(For Use with Generators Greater than 25 kW and Less than 1 MW)**

An applicant (Generator Owner) makes application to the Town of Clayton to install and operate a generating facility greater than 25 kW and less than 1 MW interconnected with the Town of Clayton electric system.

**Section 1 – Applicant Information**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility Location (if different from above): \_\_\_\_\_

Phone Number: Daytime \_\_\_\_\_

Evening \_\_\_\_\_

Town of Clayton Account Number: \_\_\_\_\_

Energy Service Provider Name: \_\_\_\_\_

Account Number: \_\_\_\_\_

**Section 2 – Generator Qualifications**

Is the generator a qualifying facility as defined under Subpart B, Section 201 of the Federal Energy Regulatory Commission's regulations per the Public Utility Regulatory Policies Act of 1978?

- Yes                       No

Is the generator powered from a renewable qualifying energy source?

- Yes                       No

Type of qualifying energy source (if applicable):

- Solar
- Wind
- Hydro

Other generator energy source:

- Natural Gas
- Fuel Oil
- Other \_\_\_\_\_

Will excess power be exported to the Town of Clayton?  Yes  No

Site Load: \_\_\_\_\_ kW (Typical)

Maximum Export: \_\_\_\_\_ kW

### Section 3 – Generator Technical Information

Type of generator:

- Synchronous
- Induction
- DC Generator or Solar with Inverter

Generator (or solar collector) Manufacturer, Model Name, and Model Number:

\_\_\_\_\_  
*(A copy of generator nameplate and manufacturer's specifications sheet may be substituted).*

Output Power Rating in kW: \_\_\_\_\_

Inverter Manufacturer, Model Name, and Model Number:

\_\_\_\_\_  
*(A copy of inverter nameplate and manufacturer's specification sheet may be substituted).*

Rating in kW: \_\_\_\_\_

Generator Characteristic Data (for rotating machines):

*(Not needed if generator nameplate and manufacturer's specification sheet is provided).*

Direct Axis Synchronous Reactance, $X_d$ :	_____ P.U.
Negative Sequence Reactance:	_____ P.U.
Direct Axis Transient Reactance, $X'_d$ :	_____ P.U.
Zero Sequence Reactance:	_____ P.U.
Direct Axis Subtransient Reactance, $X''_d$ :	_____ P.U.
KVA Base:	_____

**Section 4 – Interconnecting Equipment Technical Data**

Will an interposing transformer be used between the generator and the point of interconnection?

- Yes  No

Transformer Data (if applicable) for Customer-Owned Transformer:  
*(A copy of transformer nameplate and manufacturer's test report may be substituted).*

Size: \_\_\_\_\_ KVA Transformer Primary: \_\_\_\_\_

Volts:  Delta  Wye  Wye Grounded

Transformer Secondary: \_\_\_\_\_

Volts:  Delta  Wye  Wye Grounded

Transformer Impedance: \_\_\_\_\_% on \_\_\_\_\_ KVA Base

Transformer Fuse Data (if applicable) for Customer-Owned Fuse:  
*(Attach copy of fuse manufacturer's minimum melt and total clearing time-current curves).*

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_

Size: \_\_\_\_\_ Speed: \_\_\_\_\_

Interconnecting Circuit Breaker (if applicable):  
*(A copy of breaker's nameplate and specification sheet may be substituted).*

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_

Load Rating: \_\_\_\_\_ Interrupting Rating: \_\_\_\_\_

Trip Speed: \_\_\_\_\_

(Amps) (Amps)  
(Cycles)

Circuit Breaker Protective Relays (if applicable):  
*(Enclose 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):  
(Enclose a copy of manufacturer's excitation and ratio correction curves).

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_

Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_/5

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_

Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_/5

Generator Disconnect Switch:

A generator disconnect device, accessible to the Town of Clayton, must be included for all generators greater than 25 kW.

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_

Catalog No.: \_\_\_\_\_ Rated Volts: \_\_\_\_\_ Rated Amps: \_\_\_\_\_

- Single Phase                       Three Phase

Mounting Location: \_\_\_\_\_

### Section 5 – General Technical Information

Enclose a copy of the site on-line diagram showing configuration and interconnection of all equipment, current and potential circuits, and protection and control schemes. Is on-line diagram enclosed?                       Yes                       No

Enclose a copy of any site documentation that describes and details the operation of the protection and control schemes. Is any available documentation enclosed?                       Yes                       No

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm / monitoring circuits. Are schematic drawings enclosed?

Yes  No

### Section 6 – Installation Details

Generating system will be installed by:  Owner  State Licensed Electrician

Installing Electrician: \_\_\_\_\_

Firm: \_\_\_\_\_

License Number: \_\_\_\_\_

Mailing Address:

\_\_\_\_\_

\_\_\_\_\_

Telephone Number (including area code): \_\_\_\_\_

Installation Date: \_\_\_\_\_

Interconnection Date: \_\_\_\_\_

Supply certification that the generating system has been installed and inspected in compliance with the local building / electrical code.

\_\_\_\_\_  
Inspector's Signature

\_\_\_\_\_  
Date

*(In lieu of signature of the Inspector, a copy of the final inspection certificate may be attached).*

### Section 7 – Generator / Equipment Certification

Generating systems that use / utilize inverter technology must be compliant with IEEE 929 and Underwriters Lab. UL 1741. Generating systems that use a rotating machine must be compliant with the Town of Clayton's *Technical Considerations Covering Parallel Operations of Customer-Owned Generation of Less than One (1) MW and Interconnected with the Town of Clayton Electric System* document.

By signing below, the applicant certifies that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance.

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date



**Section 10– Internal Notifications**

		Date
Send applicant warning label for installing on / near service meter	<input type="checkbox"/> Yes	_____
Notify Billing Department of interconnected generation	<input type="checkbox"/> Yes	_____
Notify Electric Department of interconnected generation	<input type="checkbox"/> Yes	_____
Application fee paid	<input type="checkbox"/> Yes	_____
DEMEC notified	<input type="checkbox"/> Yes	_____
Copy of Final Inspection Certificate (or signature)	<input type="checkbox"/> Yes	_____