

**Document C0**  
**Generator Connection Request Form**  
for the  
**Connection of Electric Generation**  
that will operate with an  
**Open Transition (Category 1) between the Ameren System and  
the Generator**  
or operate with a  
**Synchronized Closed Transition (Category 2) between the  
Ameren System and the Generator of Less than 0.1 Seconds**

**A. Customer Information**

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

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

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

Service/Street Address (if different from above): \_\_\_\_\_

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

Daytime Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Emergency Contact Phone: \_\_\_\_\_

Company Account No (from Utility Bill): \_\_\_\_\_

**B. Customer's Generator & Transfer Switch System Information**

Manufacturer Nameplate AC Power Rating: \_\_\_\_\_ kW and Voltage: \_\_\_\_\_ V.

System Type: (describe) \_\_\_\_\_

Service/Street Address: \_\_\_\_\_

Transfer Switch Equipment Manufacturer: \_\_\_\_\_

Transfer Switch Equipment Model No.: \_\_\_\_\_

Are System Plans & Specifications Attached?      Yes \_\_\_      No \_\_\_

Location of Lockable Visible Open/Main Disconnect Device (describe):

Existing Electrical Service Capacity: \_\_\_\_\_ Amperes Voltage: \_\_\_\_\_ Volts

Service Character: Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_

### **C. Installation Information/Hardware and Installation Compliance**

Person or Company Installing: \_\_\_\_\_

Contractor's License No. (if applicable): \_\_\_\_\_

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

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

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

Daytime Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Person or Agency Who Will Inspect/Certify Installation: \_\_\_\_\_

### **D. Type of Connection**

Customer is proposing to connect generation that falls under the following category:

\_\_\_\_ Category 1 – Open Transition

\_\_\_\_ Category 2 – Synchronized Closed Transition of Less than 0.1 Seconds

### **E. Conditions and Required Testing**

For Category 1 and 2 generators:

1. Where the associated Ameren service is less than 600V, install a main service disconnect capable of being padlocked in the open position. Also submit a drawing indicating the nature and physical location of this equipment or

device. This equipment shall meet Ameren's Specifications and Requirements for the Connection of Electric Generation attached;

2. Where the associated Ameren service is greater than 600V, install padlockable equipment capable of establishing a "visible disconnect" between the Ameren system and the generator. *A visible disconnect is a switching device that enables one to physically see an open air gap that is created by either the disconnect device itself or by its being drawn out from a "seated" or "racked in" position.* Also submit a drawing indicating the nature and physical location of this equipment or device. This equipment shall meet Ameren's Specifications and Requirements for the Connection of Electric Generation attached;
3. Provide signage in the immediate vicinity of Ameren's revenue meter indicating that a generator exists on the premises and that a lockable main service disconnect or lockable visible open disconnect is available. Similarly, provide signage at the disconnect device itself for identification purposes;
4. Agree not to operate the generator in parallel with Ameren's electric system for purposes of peak shaving, serving normal loads, or testing the capability of the generator to carry electric load. Prolonged operation of the generator in parallel with the utility electric system when it is de-energized creates a safety hazard for utility employees, to the point of being potentially fatal.

For Category 2 generators only:

5. If the generator is equipped with "Fast Transfer Capability," i.e. relaying and controls that limit the duration of synchronized closed transition between the generator and Ameren's electric system to less than 100 milliseconds during startup and shutdown of the unit, the generator must demonstrate, through equipment supplier information, that the equipment is designed to achieve the fast transfer in less than 100 milliseconds;
6. Demonstrate that the transfer switch complies with all of Ameren's Specifications and Requirements for the Connection of Electric Generation, including the provision for a transfer failure scheme, which will cause the opening of one of the sources within two (2.0) seconds of the start of the paralleling condition;
7. Demonstrate that the equipment can achieve the fast transfer by providing an on-site start-up and commissioning test procedure for the fast transfer capability of the hardware. Ameren and the customer shall agree on this procedure as well as on the date and time of the testing. The test procedure shall:

- A. Provide sufficient notice to Ameren of the fast transfer testing in order to allow Ameren the opportunity to both attend (if desired) and take any operational or safety precautions deemed necessary (contact Andrew Sugg at 314-554-2077);
- B. Test the fast transfer capability per manufacturer's recommendations and verify that the closed transition transfer takes place within 100 milliseconds;
- C. Test the transfer failure scheme and verify that one of the sources opens subsequent to an extended paralleling condition of greater than two (2.0) seconds;
- D. Require immediate notification to Ameren of any periods during testing when the fast transfer equipment is out of service or fails to achieve transfer in 100 milliseconds, or when the transfer failure scheme fails to operate properly; and
- E. Arrange for the appropriate follow-up testing (and notification to Ameren) in the case where any part of the original commissioning procedure couldn't be satisfied.

**F. Signature**

I hereby certify that, to the best of my knowledge, all the information provided on this Generator Connection Request Form is true and correct. After the installation and testing of the generator and upon proper submission or resubmission of the documentation required by Ameren, I agree to operate the generator in compliance with the conditions stated above.

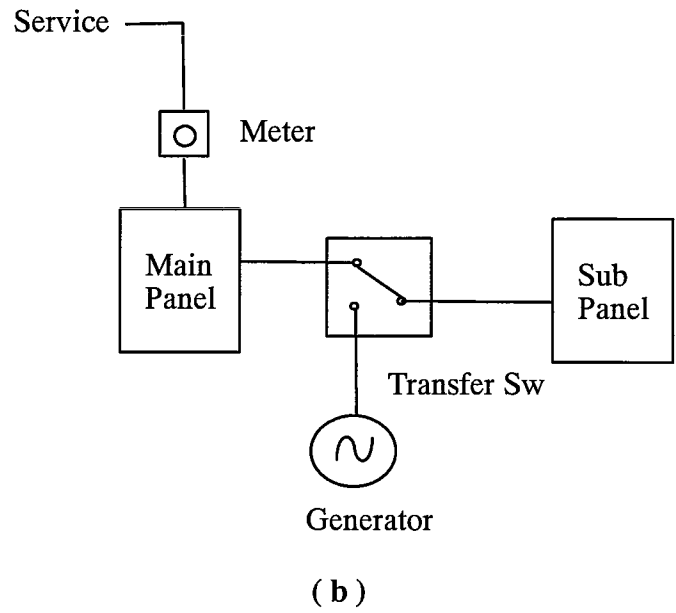
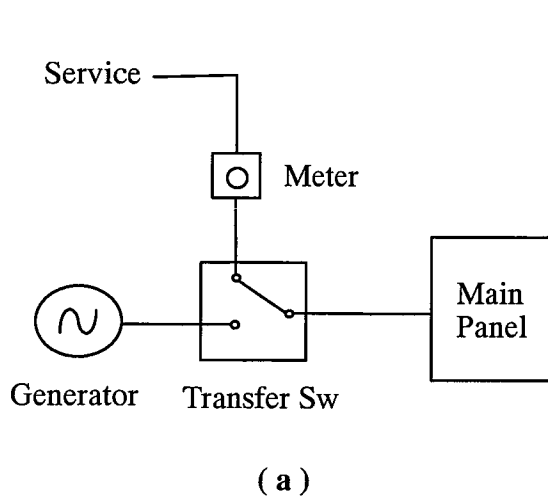
Customer Signature: \_\_\_\_\_

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

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

# MO - Placement of Customer Equipment

200 Amp Non - CT Meter, Service Entrance Rated



320 Amp and Above - Service Entrance Rated

