

TITLE 83: PUBLIC UTILITIES  
CHAPTER I: ILLINOIS COMMERCE COMMISSION  
SUBCHAPTER c: ELECTRIC UTILITIES

PART 466  
ELECTRIC INTERCONNECTION OF DISTRIBUTED GENERATION FACILITIES

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AUTHORITY: Implementing Section 16-107.5 of the Public Utilities Act [220 ILCS 5/16-107.5] and authorized by Sections 16-107.5 and 10-101 of the Public Utilities Act [220 ILCS 5/16-107.5 and 10-101].

SOURCE: Emergency rules adopted at 32 Ill. Reg. 6556, effective April 1, 2008, for a maximum of 150 days; adopted at 32 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**Section 466.10 Scope**

The Illinois Distributed Generation Interconnection Standard applies to generation facilities operated in parallel with an electric public utility distribution company in Illinois and meeting the following criteria:

- a) The nameplate capacity of the distributed generation facility is equal to or less than 10 MVA; and

- g) Lab-certified interconnection equipment shall not require further design testing or production testing, as specified by IEEE Standard 1547 Sections 5.1 and 5.2, or additional interconnection equipment modification to meet the requirements for expedited review; however, nothing in this Section shall preclude the need for an interconnection installation evaluation, commissioning tests or periodic testing as specified by IEEE Standard 1547 Sections 5.3, 5.4 and 5.5 or for a witness test conducted by an EDC.

**Section 466.80 Determining the Review Level**

An EDC shall determine whether an interconnection request should be processed under the Level 1, 2, 3 or 4 procedures by using the following screens:

- a) **An EDC shall use Level 1 procedures to evaluate all interconnection requests to connect a distributed generation facility when:**
  - 1) The applicant has **filed a Level 1 application;** and
  - 2) The distributed generation facility has a nameplate capacity of **10 kVA or less;** and
  - 3) The distributed generation facility is **inverter-based;** and
  - 4) The customer interconnection equipment proposed for the distributed generation facility is **lab-certified;** and
  - 5) **No construction of facilities by the EDC shall be required** to accommodate the distributed generation facility.
- b) An EDC shall use Level 2 procedures for evaluating interconnection requests when:
  - 1) The applicant has filed a Level 2 application; and
  - 2) The nameplate capacity rating is 2 MVA or less; and
  - 3) The interconnection equipment proposed for the distributed generation facility is lab-certified; and
  - 4) The proposed interconnection is to a radial distribution circuit or a spot network limited to serving one customer; and
  - 5) No construction of facilities by the EDC shall be required to accommodate the distributed generation facility, other than minor modifications provided for in Section 466.100(f).

- 1) The applicant has filed a Level 4 application; and
- 2) The nameplate capacity of the small generation facility is 10 MVA or less; and
- 3) Not all of the interconnection equipment or distributed generation facilities being used for the application is lab-certified.

### **Section 466.90 Level 1 Expedited Review**

An EDC shall use the Level 1 interconnection review procedures for an interconnection request that meet the requirements specified in Section 466.80(a). An EDC may not impose additional requirements on Level 1 reviews that are not specifically authorized under this Section unless the applicant agrees.

- a) **The EDC shall evaluate the potential for adverse system impacts using the following screens, which shall be satisfied:**
  - 1) For interconnection of a proposed distributed generation facility to a radial distribution circuit, the total distributed generation connected to the distribution circuit, including the proposed distributed generation facility, may not exceed 15% of the maximum load normally supplied by the distribution circuit.
  - 2) The total capacity of distributed generation facilities connected on the load side of spot network protectors, including the proposed facility, shall not exceed 5% of the spot network's maximum load or 50 kVA, whichever is less.
  - 3) When a proposed distributed generation facility is to be interconnected on a single-phase shared secondary line, the aggregate generation capacity on the shared secondary line, including the proposed distributed generation facility, shall not exceed 20 kVA.
  - 4) When a proposed distributed generation facility is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition may not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
  - 5) The EDC shall not be required to construct any facilities on its own system to accommodate the distributed generation facility's interconnection.
- b) **The Level 1 interconnection shall use the following procedures:**
  - 1) The applicant submits an interconnection request using the appropriate form along with the Level 1 application fee (see Appendix A).

- 2) Within 7 business days after receipt of the interconnection request, the EDC shall inform the applicant whether the interconnection request is complete or not. If the request is incomplete, the EDC shall specify what information is missing and the applicant has 10 business days after receiving notice from the EDC to provide the missing information or the interconnection request shall be deemed withdrawn.
- 3) Within 15 business days after the EDC notifies the applicant that its interconnection request is complete, the EDC shall verify whether the distributed generation facility passes all the relevant Level 1 screens.
- 4) If the EDC determines and demonstrates that a distributed generation facility does not pass all relevant Level 1 screens, the EDC shall provide a letter to the applicant explaining the reasons that the facility did not pass those screens .
- 5) Otherwise, the EDC shall approve the interconnection request and provide to the applicant a signed version of the "Conditional Agreement to Interconnect Distributed Generation Facility" in Appendix A subject to the following conditions:
  - A) The distributed generation facility has been approved by local or municipal electric code officials with jurisdiction over the interconnection;
  - B) A certificate of completion (see Appendix B) has been returned to the EDC. Completion of local inspections may be designated on inspection forms used by local inspecting authorities;
  - C) The witness test has been successfully completed if required by the EDC or if the witness test has been waived according to of Appendix A(2)(c)(ii); and
  - D) The applicant has signed a standard distributed generation interconnection agreement (see Appendix A). When an applicant does not sign the agreement within 30 business days after receipt of the agreement from the EDC, the interconnection request is deemed withdrawn unless the applicant requests to have the deadline extended for no more than 15 business days. An initial request for extension shall not be denied by the EDC, but subsequent requests may be denied.
- 6) If a distributed generation facility is not approved under a Level 1 review, and the EDC's reasons for denying Level 1 status are not subject to

dispute, the applicant may submit a new interconnection request for consideration under Level 2, Level 3 or Level 4 procedures.

### **Section 466.100 Level 2 Expedited Review**

An EDC shall use the Level 2 review procedure for interconnection requests that meet the Level 2 criteria in Section 466.80(b). An EDC may not impose additional requirements for Level 2 reviews that are not specifically authorized under this Section unless the applicant agrees.

- a) The EDC shall evaluate the potential for adverse system impacts using the following screens, which shall be satisfied:
  - 1) For interconnection of a proposed distributed generation facility to a radial distribution circuit, the total distributed generation connected to the distribution circuit, including the proposed distributed generation facility, may not exceed 15% of the maximum normal load normally supplied by the distribution circuit
  - 2) For interconnection of a proposed distributed generation facility to the load side of spot network protectors, the proposed distributed generation facility shall utilize an inverter-based equipment package. The customer interconnection equipment proposed for the distributed generation facility must be lab-certified and, when aggregated with other generation, may not exceed 5% of a spot network's maximum load.
  - 3) The proposed distributed generation facility, in aggregation with other generation on the distribution circuit, may not contribute more than 10% to the distribution circuit's maximum fault current at the point on the primary line nearest the point of interconnection.
  - 4) The proposed distributed generation facility, in aggregate with other generation on the distribution circuit, shall not cause any distribution protective devices and equipment including substation breakers, fuse cutouts, and line reclosers, or other customer equipment on the electric distribution system to be exposed to fault currents exceeding 90% of their short circuit interrupting capability. The interconnection may not occur under Level 2 if equipment on the EDC's distribution circuit is already exposed to fault currents of between 90% and 100% of the EDC's equipment short circuit interrupting capability. However, if fault currents exceed 100% of the EDC's equipment short circuit interrupting capability even without the distributed generation being interconnected, the EDC shall replace the equipment at its own expense, and interconnection may proceed under Level 2.