

Guidelines for Interconnection of Member-Owned Small Qualifying Generation Systems to Lumbee River EMC's Distribution System

The residential member-owner installing a small single phase, 120/240-volt Small Qualifying Generation system with a nameplate rating of 25 kw or less, and with plans to interconnect to Lumbee River EMC's distribution grid with the intent of selling power back to the Cooperative must submit an application requesting interconnection. Upon approval of the application and prior to interconnection, the member's system must be verified by the Cooperative as meeting all interconnection standards and the member will be required to enter into a written agreement with the Cooperative, which specifies the installation and operating requirements to ensure that personal safety and system reliability will not be compromised.

Steps to Achieve Interconnection /Parallel Operation

- 1) Submit application, requirements for interconnection form, and requested information.
Application forms are available from the Cooperative.
- 2) Application is reviewed by the Cooperative's engineering staff.
- 3) Proposed interconnection approved, rejected or recommendations for modification made.
- 4)
 - a) **If proposed interconnection approved**, applicant and Cooperative will sign the interconnection agreement prior to interconnection. In order to interconnect the member's equipment to the Cooperative's distribution system, Lumbee River EMC will order and purchase all required metering equipment necessary for the purpose of power production measurement. The member will be responsible for reimbursement to Lumbee River EMC for such equipment expenses. Member is responsible for costs incurred by the Cooperative pursuant to the interconnection standard. A non-refundable interconnection fee of \$400 will be due when the Interconnection Agreement is signed. Members will also be advised of any additional costs incurred by the Cooperative pursuant to the interconnection, and payment must be made prior to the Cooperative making the interconnection. The member must ensure that the installation complies with the National Electric Code (NEC) and all applicable local codes (latest editions) and that the system has been inspected and approved by the electric inspector that has legal jurisdiction.
 - b) **If rejected**, the Cooperative will advise the member why the project was not approved, and what is required to bring it into compliance.

Note: Should applicant choose to begin construction prior to the project being approved by the Cooperative, they do so with the understanding the system/interconnection is subject to final approval by the Cooperative. Installation of additional Cooperative-owned interconnection facilities, at the member's expense, may be required by the Cooperative at a later date if the member's generation system, despite compliance with the interconnection standards, causes safety, reliability or power quality problems.

- 5) At the time of application for interconnection and prior to Lumbee River EMC arranging for the Cooperative's interconnection facilities, member must provide verification:*
- That the renewable energy system(s) equipped with a voltage inverter, shall be manufactured, installed and operated in compliance with Underwriters' Laboratory (UL) standard 1741 for distributed generation systems and has been identified and listed as "Utility Interactive."
(Note: Induction type generators shall be approved on a case by case basis.)
 - That the system installation complies with the National Electric Code (NEC) and all applicable local codes (latest editions) and that the system has been inspected and approved by the electrical inspector have legal jurisdiction. See list of applicable standards.
 - That the system shall be installed, operated and maintained in accordance with the manufacturers, government and industry standards and specifications.
 - A disconnect switch will be installed between the Utility's electric system and the Member's generator.

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**Note: A distributed generation equipment system (meaning all interface components including switchgear, inverters, integrated generator or other interface devices) may be considered eligible for interconnected generation if it has been submitted by a manufacturer to a nationally recognized testing and certification laboratory (NRTL) and has been tested, identified, and listed by the NRTL as meeting UL standard 1741 for continuous interactive operation with a utility grid.*

- 6) Member submits payment for the Cooperative's interconnection fees and any additional charges as may be necessary to meet the Cooperative's interconnection standard.
- 7) Prior to interconnection, the Cooperative will inspect and test that the member's renewable energy generation system meets safety and power quality requirements.
- 8) The Cooperative sets the metering interconnection device(s) to record any energy produced and delivered to the Cooperative by the member's renewable energy generator system.
- 9) The Cooperative makes the necessary changes to the member's account so billing statements will list the applicable charges.