

## POLICY 472

### INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

#### I. OBJECTIVE

To establish safety, reliability and economic standards for interconnection and parallel operation of distributed generation of member-owned on-site electric generation facilities using renewable fuel sources designed primarily to offset the member's electrical requirements.

#### II. DEFINITIONS

**Distributed Generation** is defined as any generation built within close proximity to the generating member's load regardless of generation capacity or energy source of such generation and includes but is not limited to:

- A. small scale environmentally friendly generators such as photovoltaics (PV), fuel cells, small wind turbines;
- B. microturbines or reciprocating engines fueled by renewable fuels such as landfill gas or methane gas from digesters;
- C. any qualifying facility (QF) under the Public Utility Regulatory Policies Act of 1978 (PURPA);
- D. any on-site generation with less than 40 kilowatts (hereafter "kW") of capacity interconnected with distribution facilities;
- E. commercial emergency and standby diesel generators installed, for example, in hospitals, hotels and farms;
- F. residential standby generators;
- G. generators installed by a utility at a substation for voltage support or other reliability purposes.

**Cooperative** - Southern Illinois Electric Cooperative, an Illinois not for profit corporation.

**IEEE Standard 1547** - The Institute of Electrical and Electronic Engineers, Inc. (IEEE) Standard 1547 (2017) "Standard for Interconnecting Distributed Resources with Electric Power Systems", as amended and supplemented, at the time the interconnection request is submitted.

**IEEE Standard 1547.1** - The IEEE Standard 1547.1 (2018) "Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems", as amended and supplemented, at the time the interconnection request is submitted.

**Nameplate Capacity** – The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer and is usually indicated on a nameplate physically attached to the power production equipment.

**Small Generator Facility** – The equipment used by an interconnection member to generate, or store electricity that operates in parallel with the electric distribution system with a Nameplate Capacity of 40 kilowatts (hereafter “kW”) or less. A Small Generator Facility typically includes an electric generator, prime mover, and the interconnection equipment required to safely interconnect with the electric distribution system or local electric power system. These facilities have been approved by a nationally recognized testing laboratory or must have been approved by the Cooperative under a study process and qualify for expedited review.

**UL Standard 1741** – Underwriters Laboratories’ standard titled “Inverters Converters, and Controllers for Use in Independent Power Systems”, February 15, 2018, edition, as amended and supplemented.

**Witness Test** – For lab certified or field approved equipment, verification (either by an on-site observation or review of documents) by the Cooperative that the interconnection installation evaluation required by IEEE Standard 1547 Section 5.3 and the commissioning test required by IEEE Standard 1547 Section 5.4 have been adequately performed. For interconnection equipment that has not been lab certified or field approved, the Witness Test shall also include the verification by the Cooperative of the on-site design tests as required by IEEE Standard 1547 Section 5.1 and verification by the Cooperative of production tests required by IEEE Standard 1547 Section 5.2. All tests verified by the Cooperative are to be performed in accordance with the test procedures specified by IEEE Standard 1547.1.

### **III. APPLICABILITY**

This interconnection policy applies to Cooperative members proposing to install and interconnect Small Generator Facilities that:

- A. Have a Nameplate Capacity less than 40 kW;
- B. Are not subject to the interconnection requirements of the Independent System Operations and Regional Transmission Organization; and
- C. Are designed to operate in parallel with the electric distribution system.

### **IV. INTERCONNECTION REQUESTS**

- A. Members seeking to interconnect a Small Generator Facility shall submit an interconnection request using the form attached hereto as Attachment A. The request may be eligible for expedited interconnection review if the request is for a Small Generator Facility using lab certified or field approved interconnection equipment.
- B. Interconnection equipment shall be deemed to be lab certified if it is evaluated by a nationally recognized testing laboratory (NRTL) and found to be in compliance with

IEEE Standard 1547, including use of IEEE Standard 1547.1 testing protocols to establish conformity, UL Standard 1741 and NFPA 70 National Electrical Code.

- C. Interconnection equipment shall be deemed to be field approved if within the previous 36 months of the date of the interconnection request, it has been previously approved for use with the proposed Small Generator Facility in a materially identical system application, and the prior approval process included a successful Witness Test.
- D. The member must submit to the Cooperative plans of the proposed installation and must obtain approval for the installation. This approval process will include a review by the Cooperative of the effect of the proposed generation on the Cooperative's distribution system, including its protective scheme. The member requesting interconnection shall pay the cost of this review. No installation will be permitted that reduces reliability to other members or causes voltage conditions on the system to be outside of the limits of ANSI C84.1 Range A. No installation will be permitted that is expected to produce objectionable harmonics on the system. Any mitigation required to resolve harmonic problems created by a member-owned generator will be completed and paid for by the member.
- E. For generating facilities with nameplate ratings of 40 kW or more, the member must comply with Southern Illinois Power Cooperative's Facilities Connection Requirements.

## **V. REVIEW**

- A. The Cooperative shall review the application and evaluate the potential for adverse system impacts. All costs of construction of facilities on the Cooperative's system to accommodate the Small Generator Facility shall be paid by the member.
- B. The Cooperative shall, within 15 business days after receipt of the interconnection request, inform the applicant that the interconnection request is complete or incomplete and if so, what materials are missing.
- C. The Cooperative shall, within 15 business days after the end of the 15 business days noted in B. above, verify that the Small Generator Facility equipment can be interconnected safely and reliably.
- D. Unless the Cooperative determines and demonstrates that a Small Generator Facility cannot be interconnected safely or reliably to its system and provides a letter to the applicant explaining its reasons for denying an interconnection request, the Cooperative shall approve the interconnection request subject to the following conditions:
  - 1. The Small Generator Facility has been approved by local or municipal electric code officials with jurisdiction over the interconnections;

2. A certificate of completion has been returned to the Cooperative. Completion of local inspections may be designated on inspection forms used by local inspecting authorities;
3. The Witness Test has been successfully completed or waived; and
4. The applicant has signed a standard small generator interconnection agreement and provided proof applicant has complied with the terms of the agreement. When an applicant does not sign the agreement within 30 business days after receipt from the Cooperative, the interconnection request will be deemed withdrawn unless the applicant requests to have the deadline extended for an additional 30 days (the "Extension"). No further extensions shall be allowed. The request for Extension shall not be denied by the Cooperative.

## **VI. INSURANCE RECOMMENDATION AND INDEMNIFICATION**

It is recommended, but not required that the member consult legal counsel to determine the member's potential liability resulting from its interconnection to the Cooperative's facilities, and that any policy issued throughout the term of this agreement, carry a liability insurance policy issued by a licensed insurance carrier with an A.M. Best rating of B+ or better that provides protection against claims for damages resulting from (i) bodily injury, including wrongful death; and (ii) property damage arising out of the member's ownership and/or operation of the Distributed Generation facility under this agreement. It is recommended that the limits of such policy be at least \$1,000,000 per occurrence.

## **VII. MISCELLANEOUS REQUIREMENTS**

- A. The Cooperative shall be reimbursed for all costs of interconnection, including all carrying costs, incurred by the Cooperative in connecting the member generation facility to the distribution system. Those costs for interconnection of Small Generator Facilities shall not exceed \$500.00 unless the facility fails initial testing and additional review is necessary.
- B. The Cooperative shall have free access to the member's Small Generator Facility and interconnection equipment at all times to monitor operation of the member's equipment, Cooperative-supplied service equipment connected to such system, or to disconnect if the facility is not in compliance with the requirements of IEEE Standard 1547 and the non-compliance adversely affects the safety or reliability of the electric system. The Cooperative shall, unless an emergency that could affect either the reliability or safety of the Cooperative's facilities is present, provide reasonable notice to the member prior to disconnection of the facility if possible.
- C. The Cooperative shall have the right to inspect and approve all plans for parallel generation systems and the interconnection systems prior to initial operation or subsequent operation following modifications.

- D. The member shall make any necessary changes or adjustments to the additional facilities being operated in parallel to eliminate interference on the Cooperative's distribution system.
- E. The member shall not energize the Cooperative's system during any period of utility service interruption. The member's equipment must contain a disconnect device to which the Cooperative has access and which the Cooperative can lock in an open position to disconnect, for safety reasons, the member's electric generating facility from the Cooperative's electric delivery system.
- F. Electric generation facilities may be disconnected by the Cooperative from its system whenever, in the sole opinion of the Cooperative, such action is required by an emergency, for reasons of safety or due to interference with service to other members. The facility shall also be subject to the Cooperative's requirements for maintaining voltage standards of output and the production of reactive power.
- G. Phase, frequency and voltage of the member's interconnected generation shall be compatible with that provided by the Cooperative.
- H. The members shall pay the cost of interconnection as set forth in A above and all initial and future transmission, distribution, metering, service and other facilities costs necessary to permit interconnected operations with the Cooperative.
- I. Any auxiliary or reserve power service required by the member must be arranged in accordance with the terms of the Cooperative's applicable policies/rates as modified from time to time.

ADOPTED: January 28, 2008

Reviewed: June 30, 2014

Amended: February 19, 2015

Amended: January 30, 2017

Amended: May 23, 2022

Amended: February 27, 2023

# ATTACHMENT A

## **SOUTHERN ILLINOIS ELECTRIC COOPERATIVE**

### **Application for Operation of Member Owned Generation**

**This application should be completed and returned to the Cooperative.**

INFORMATION: *This application is used by the Cooperative to determine the required equipment configuration for the Member interface. Every effort should be made to supply as much information as possible.*

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#### **PART 1**

##### **OWNER/APPLICANT INFORMATION**

Owner/Member

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

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

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

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

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##### **PROJECT DESIGN/ENGINEERING (ARCHITECT) (as applicable)**

Company: \_\_\_\_\_ License/Registration Number: \_\_\_\_\_

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

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

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

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##### **ELECTRICAL CONTRACTOR (as applicable)**

Company: \_\_\_\_\_ License/Registration Number: \_\_\_\_\_

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

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

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

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##### **TYPE OF GENERATOR (as applicable)**

Photovoltaic \_\_\_\_\_ Wind \_\_\_\_\_ Microturbine \_\_\_\_\_

Diesel Engine \_\_\_\_\_ Gas Engine \_\_\_\_\_ Combustion Turbine \_\_\_\_\_

Other \_\_\_\_\_

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**ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION INFORMATION**

The following information is necessary to help properly design the Cooperative member interconnection.  
This information is not intended as a commitment or contract for billing purposes.

Total Site Load \_\_\_\_\_ (kW)

Residential \_\_\_\_\_

Commercial \_\_\_\_\_

Industrial \_\_\_\_\_

Generator Rating \_\_\_\_\_ (kW)

Annual Estimated Generation \_\_\_\_\_ (kWh)

**Mode of Operation**

Isolated \_\_\_\_\_

Paralleling \_\_\_\_\_

Power Export \_\_\_\_\_

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**DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION**

Give a general description of the proposed installation, including a detailed description of its planned location, the date you plan to operate the generator, the frequency with which you plan to operate it and whether you plan to operate it during on or off-peak hours.

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## PART 2

(Complete all applicable items. Copy this page as required for additional generators)

### SYNCHRONOUS GENERATOR DATA

Unit Number: \_\_\_\_\_ Total number of units with listed specifications on site: \_\_\_\_\_

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

Type: \_\_\_\_\_ Date of manufacture: \_\_\_\_\_

Serial Number (each): \_\_\_\_\_

Phases: Single Three R.P.M.: \_\_\_\_\_ Frequency (Hz): \_\_\_\_\_

Rated Output (for one unit): \_\_\_\_\_ Kilowatt \_\_\_\_\_ Kilovolt-Ampere

Rated Power Factor (%): \_\_\_\_\_ Rated Voltage (Volts): \_\_\_\_\_ Rated Amperes: \_\_\_\_\_

Field Volts: \_\_\_\_\_ Field Amps: \_\_\_\_\_ Motoring power (kW): \_\_\_\_\_

Synchronous Reactance (Xd): \_\_\_\_\_ % on \_\_\_\_\_ KVA base

Transient Reactance (Xd): \_\_\_\_\_ % on \_\_\_\_\_ KVA base

Subtransient Reactance (Xd): \_\_\_\_\_ % on \_\_\_\_\_ KVA base

Negative Sequence Reactance (Xs): \_\_\_\_\_ % on \_\_\_\_\_ KVA base

Zero Sequence Reactance (Xo): \_\_\_\_\_ % on \_\_\_\_\_ KVA base

Neutral Grounding Resistor (if applicable): \_\_\_\_\_

$I_2^2t$  or K (heating time constant): \_\_\_\_\_

Additional information: \_\_\_\_\_

### INDUCTION GENERATOR DATA

Rotor Resistance (Rr): \_\_\_\_\_ ohms Stator Resistance (Rs): \_\_\_\_\_ ohms

Rotor Reactance (Xr): \_\_\_\_\_ ohms Stator Reactance (Xs): \_\_\_\_\_ ohms

Magnetizing Reactance (Xm): \_\_\_\_\_ ohms Short Circuit Reactance (Xd): \_\_\_\_\_ ohms

Design letter: \_\_\_\_\_ Frame Size: \_\_\_\_\_

Exciting Current: \_\_\_\_\_ Temp Rise (deg C°): \_\_\_\_\_

Reactive Power Required: \_\_\_\_\_ Vars (no load), \_\_\_\_\_ Vars (full load)

Additional information: \_\_\_\_\_

### PRIME MOVER (Complete all applicable items)

Unit Number: \_\_\_\_\_ Type: \_\_\_\_\_

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

Serial Number: \_\_\_\_\_ Date of manufacture: \_\_\_\_\_

H.P. Rated: \_\_\_\_\_ H.P. Max.: \_\_\_\_\_ Inertia Constant: \_\_\_\_\_ lb.-ft.<sup>2</sup>

Energy Source (hydro, steam, wind, etc.) \_\_\_\_\_

### GENERATOR TRANSFORMER (Complete all applicable items)

TRANSFORMER (between generator and utility system)

Generator unit number: \_\_\_\_\_ Date of manufacture: \_\_\_\_\_

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

Serial Number: \_\_\_\_\_

High Voltage: \_\_\_\_\_ KV, Connection: delta wye, Neutral solidly grounded? \_\_\_\_\_

Low Voltage: \_\_\_\_\_ KV, Connection: delta wye, Neutral solidly grounded? \_\_\_\_\_

Transformer Impedance (Z): \_\_\_\_\_ % on \_\_\_\_\_ KVA base.

Transformer Resistance (R): \_\_\_\_\_ % on \_\_\_\_\_ KVA base.

Transformer Reactance (X): \_\_\_\_\_ % on \_\_\_\_\_ KVA base.

Neutral Grounding Resistor (if applicable): \_\_\_\_\_



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**INVERTER DATA** (if applicable)

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Rated Power Factor (%): \_\_\_\_\_ Rated Voltage (Volts): \_\_\_\_\_ Rated Amperes: \_\_\_\_\_  
Inverter Type (ferroresonant, step, pulse-width modulation, etc): \_\_\_\_\_  
Type commutation: forced line  
Harmonic Distortion: Maximum Single Harmonic (%) \_\_\_\_\_  
Maximum Total Harmonic (%) \_\_\_\_\_

Note: Attach all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.

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**POWER CIRCUIT BREAKER** (if applicable)

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Rated Voltage (kilovolts): \_\_\_\_\_ Rated ampacity (Amperes) \_\_\_\_\_  
Interrupting rating (Amperes): \_\_\_\_\_ BIL Rating: \_\_\_\_\_  
Interrupting medium / insulating medium (ex. Vacuum, gas, oil) \_\_\_\_\_ / \_\_\_\_\_  
Control Voltage (Closing): \_\_\_\_\_ (Volts) AC DC  
Control Voltage (Tripping): \_\_\_\_\_ (Volts) AC DC Battery Charged Capacitor  
Close energy: Spring Motor Hydraulic Pneumatic Other: \_\_\_\_\_  
Trip energy: Spring Motor Hydraulic Pneumatic Other: \_\_\_\_\_  
Bushing Current Transformers: \_\_\_\_\_ (Max. ratio) Relay Accuracy Class: \_\_\_\_\_  
Multi ratio? No Yes: (Available taps) \_\_\_\_\_

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**ADDITIONAL INFORMATION**

*In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, a detailed site plan, all applicable elementary diagrams, major equipment, (generators, transformers, inverters, circuit breakers, protective relays, etc.) specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the interconnection. Also describe the project's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.*

**END OF PART 2**

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## **SIGN OFF AREA**

The member agrees to provide the Cooperative with any additional information required to complete the interconnection. The member shall operate his/her equipment within the guidelines set forth by the Cooperative. The member also acknowledges receipt of Cooperative's Policy 472, INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION and Policy 475, COOPERATIVE PURCHASE OF EXCESS MEMBER OWNED GENERATION CAPACITY, and verifies that he/she has read and understands the contents thereof and by the member's signature below agrees to be legally bound by the contents of Policies 472 and 475, as may be amended in the Cooperative's sole discretion, from time to time.

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Applicant (Member)

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Date

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## COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative contact: Michael Logeman  
Title: Director of Engineering  
Address: P.O. Box 100  
7420 US Highway 51 South  
Dongola, IL 62926  
Phone: 618-827-3555  
Fax: 618-827-3585  
E-mail: mlogeman@siec.org

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## ATTACHMENT B

### AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

DATE OF AGREEMENT: \_\_\_\_\_

Southern Illinois Electric Cooperative hereinafter "Cooperative"

\_\_\_\_\_ hereinafter "Member"

\_\_\_\_\_  
\_\_\_\_\_

This Agreement for Interconnection and Parallel Operation of Distributed Generation (hereinafter "Agreement") is made and entered the date indicated above between **SOUTHERN ILLINOIS ELECTRIC COOPERATIVE, INC.**, (hereinafter referred to as "Cooperative"), an electric cooperative organized under the laws of the State of Illinois, and \_\_\_\_\_, (hereinafter referred to as "Member"), a member/owner of the Cooperative presently receiving electric service from Cooperative, each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties".

In consideration of the mutual covenants set forth herein, and other good and valuable consideration, the sufficiency and receipt thereof is hereby acknowledged, the Parties agree as follows:

**1. Scope of Agreement.** This Agreement addresses the conditions under which the Cooperative and Member agree that one or more generating facilities (herein "Distributed Generation"), more particularly described in Exhibit A, owned and/or operated by Member with a Nameplate Capacity of less than 40 kW, can be interconnected at 120/240(V) or less (collectively hereafter sometimes referred to as the "Facilities" to the Cooperative's electric power distribution system (hereafter sometimes referred to as the "System"). This Agreement shall not entitle the Member to electric service beyond the terms of a separate membership agreement for service and to the Cooperative's rules, policies, regulations, by-laws and rates (hereafter collectively "Requirements").

**2. Establishment of Point of Interconnection.** Cooperative and Member agree to interconnect the Facilities at the location(s) specified in Exhibit A “Point of Interconnection” in accordance with the terms of the Cooperative’s policy on Interconnection and Parallel Operation of Distributed Generation and the Institute of Electrical and Electronic Engineers (IEEE) Standards 1547, 1547.1 and UL Standard 1741.

**3. Responsibilities of Cooperative and Member for Installation, Operation and Maintenance of Facilities.** Member will, at member’s cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for, its facilities and interconnection facilities, unless otherwise specified on Exhibit A. Member shall conduct operations of its facilities and interconnection facilities in compliance with all aspects of the Cooperative’s requirements and in accordance with industry standards and prudent engineering practice. Maintenance of facilities and interconnection facilities shall be performed in accordance with the applicable manufacturers’ recommended maintenance schedule. Member agrees to cause its facilities and interconnection facilities to be constructed in accordance with Policy 472 - Interconnection and Parallel Operation of Distributed Generation. The Cooperative shall have the right to inspect and require changes prior to energizing. Phase, frequency and voltage of the member’s interconnected generation shall be compatible with that provided by the Cooperative.

Member shall comply with all applicable Federal, State and local laws, regulations, zoning codes, building codes, safety rules and environmental restrictions applicable to the design, installation, operation and maintenance of its facilities and interconnection facilities.

The Cooperative will notify Member if there is evidence that the facilities’ or interconnection facilities’ operation causes disturbance, disruption or deterioration of service to other members served from the System or if the facilities’ or interconnection facilities’ operation causes damage to the System. If this condition persists, the Cooperative shall have the right to disconnect Member from the System. Member will notify the Cooperative of any emergency or hazardous condition or occurrence with Member’s facilities or interconnection facilities which could affect safe operation of the System.

**4. Operator in Charge.** Member shall provide a phone number and address (including Member e-mail if available) of an individual contact person with knowledge of this agreement, familiar with the installation, maintenance, and operation of the interconnection facilities and with the authority to disconnect the facility from the system in the event the Cooperative requires doing so.

**5. No Power Sales to Cooperative.** Interconnection of the Facilities with the System does not grant Member the right to export power nor does it constitute an agreement

by the Cooperative to purchase or wheel power. Purchase of excess facility capacity is governed by the Cooperative's Policy 475 - Cooperative Purchase of Excess Member Owned Generation Capacity.

## **6. Limitation of Liability and Indemnification.**

a. Notwithstanding any other provision in this Agreement, with respect to the Cooperative's provision of electric service to Member and the services provided by the Cooperative pursuant to this Agreement, Cooperative's liability to Member shall be limited as set forth in the Cooperative's rules, bylaws, policies, contracts, and terms and conditions for electric service, which are incorporated herein by reference, and in no event shall the Cooperative be liable for loss of profit, loss of operation time, or loss of or reduction in use of any facilities or any portion thereof, increased expense of construction, operation or maintenance, or for any special, indirect, incidental, or consequential damages resulting from the construction, operation or maintenance of the member's facility.

b. For the purposes of this Agreement, a Force Majeure event is any event beyond the reasonable control of the affected party that the affected party is unable to prevent or provide against by exercising reasonable diligence. This includes but is not limited to public disorder, rebellion or insurrection, floods, hurricanes, earthquakes, lightning, storms or other natural calamities, explosions or fires, strikes, work stoppages or labor disputes, embargoes, and sabotage. If a Force Majeure event prevents a party from fulfilling any obligations under this Agreement, such party will promptly notify the other party in writing and will keep the other party informed on a continuing basis as to the scope and duration of the Force Majeure event. The affected party will specify the circumstances of the Force Majeure event, its expected duration and the steps that the affected party is taking to mitigate the effect of the event on its performance. The affected party will be entitled to suspend or modify its performance of obligations under this Agreement but will use reasonable efforts to resume its performance as soon as possible.

c. Member shall be responsible for the safe installation, maintenance, repair and condition of lines, wires, switches, or other equipment or property on its side of the point of interconnection. The Cooperative does not assume any duty of inspecting Member's lines, wires, switches, or other equipment or property and will not be responsible therefore. Member assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the point of interconnection.

**7. Testing and Testing Records.** Member shall perform or cause to be performed such tests as the Cooperative may reasonably require and shall provide to the Cooperative all records of testing. Testing of protection systems shall comply with existing

industry standards and practices. These records shall include testing at the start of operation and periodic testing thereafter. Factory testing of pre-packaged interconnection facilities and the protective systems of small units shall be acceptable in the absence of reasonable grounds for additional testing. In the case of a factory test, Member shall provide a written description and certification by the factory of the test, the test results, and the qualification of any independent testing laboratory. In addition, Member shall obtain approval by the Cooperative of the settings of the equipment being installed prior to operation.

**8. Right of Access, Equipment Installation, Removal & Inspection.** The Cooperative shall have free access to the member's small generation facility and interconnection equipment at all times to monitor operation of the member's equipment, Cooperative-supplied service equipment connected to such system, or to disconnect for good cause, without prior notice to the member, member's equipment from the Cooperative's distribution system.

The Cooperative shall also have access to Member's premises and to operational records for any reasonable purpose in connection with the interconnection described in this Agreement, the Requirements, or to provide service to its members.

**9. Disconnection of Facilities.** Member retains the option to disconnect its facilities from the System, provided that Member notifies the Cooperative of the member's intent to disconnect by giving the Cooperative at least thirty (30) days' prior written notice. Such disconnection shall not be a termination of this Agreement unless Member exercises rights under Section 12 that do not lead to a resolution of the issue.

Member shall disconnect Facilities from the System upon the effective date of any termination resulting from and required by actions under Section 12.

The Cooperative may disconnect the electric generation facilities from its system whenever, in the sole opinion of the Cooperative, such action is required by an emergency, for reasons of safety or due to interference with service to other members. The facility shall also be subject to the Cooperative's requirements for maintaining voltage standards of output and the production of reactive power.

**10. Metering.** The Cooperative shall be reimbursed for all costs of interconnection, including all carrying and metering costs, incurred by the Cooperative in connecting the member generation facility to the distribution system. Metering shall meet accuracy standards required for equivalent electrical services and can be accomplished with standard meters or any devices that meet data collection and accuracy requirements.

**11. Insurance Recommendation.** It is recommended, but not required, that the member consult legal counsel to determine the member's potential liability resulting from its interconnection to the Cooperative's facilities, and that any policy issued throughout the

term of this agreement, carry a liability insurance policy issued by a licensed insurance carrier with an A.M. Best rating of B+ or better that provides protection against claims for damages resulting from (i) bodily injury, including wrongful death; and (ii) property damage arising out of the member's ownership and/or operation of the Distributed Generation facility under this agreement. It is recommended that the limits of such policy be at least \$1,000,000 per occurrence.

**12. Effective Term and Termination Rights.** This Agreement becomes effective when executed by both Parties and shall continue in effect until terminated. This Agreement may be terminated as follows: (a) Member may terminate this Agreement at any time by giving the Cooperative at least sixty (60) days' written notice; (b) Cooperative may terminate upon failure by Member to generate energy from the Facilities within six (6) months after completion of the interconnection; (c) either Party may terminate by giving the other Party at least thirty (30) days prior written notice that the other Party is in default of any of the terms and conditions of the Agreement or the Rules or any rate schedule, regulation, contract, or policy of the Cooperative, so long as the notice specifies the basis for termination and there is opportunity to cure the default; (d) Cooperative may terminate by giving Member at least sixty (60) days notice in the event that there is a material change in an applicable law, or any change in policy or procedure pertaining to Distributed Generation by the Cooperative's wholesale electric supplier or requirement of any transmission utility, independent system operator or regional transmission organization having responsibility for the operation of any part of the System; (e) Cooperative may terminate this Agreement upon three (3) business days notice in the event Member ceases to receive electric service from Cooperative or is in default of terms or conditions for electric service; in the event that a Party (i) makes a general assignment or arrangement for the benefit of creditors; (ii) commences an action or proceeding under any bankruptcy, insolvency or similar law for the protection of debtors or creditors, or has commenced against it any such action or proceeding which is not withdrawn or dismissed within thirty (30) days; (iii) otherwise is adjudicated a debtor in bankruptcy or insolvent; (iv) is unable (or admits in writing its inability) generally to pay its debts as they become due; (v) is dissolved or has a resolution passed for its winding-up or liquidation (other than pursuant to a consolidation, acquisition or merger); (vi) seeks or becomes subject to the appointment of an administrator, assignee, conservator, receiver, trustee or similar official for substantially all of its assets; (vii) has a secured party take possession of all or substantially all of its assets or has all, or has substantially all of its assets become subject to an attachment, execution, levy, sequestration or other legal process which is not dismissed, discharged, stayed or restrained within thirty (30) days; (viii) causes or is subject to any event that has an effect analogous to any of the events enumerated in clauses (i) through (vii); or (ix) takes any action in furtherance of, or indicates its consent to, approval of, or acquiescence in any of the foregoing acts or events; then, in such event, this Agreement shall terminate automatically without notice and without any other action by either Party.

**13. Compliance with Laws, Rules and Regulations.** Member shall be responsible for complying with all federal, state and local laws. In the event Member's facilities, interconnection or disposition of electricity generated by the Distributed Generation are, or become, subject to Federal, State or local regulation, Member is, and shall be, responsible for regulatory compliance. The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Rules and the Cooperative's policies governing interconnection of Distributed Generation. The Cooperative reserves the right to change the Rules and policies at any time.

**14. Severability.** If any portion or provision of this Agreement is held or adjudged for any reason to be invalid or illegal or unenforceable by any court of competent jurisdiction, such portion shall be deemed separate and independent, and the remainder of this Agreement, shall remain in full force and effect.

**15. Amendment.** This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by the Parties.

**16. Entirety of Agreement.** This Agreement, including the requirements contained in the attached Exhibits and Facilities Schedules, which are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the interconnection of the facilities of the Parties at the Points of Interconnection expressly provided for in this Agreement. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein or in Member's application, or other written information provided by the Member in compliance with these requirements.

**17. Assignment.** This Agreement may be assigned to a party receiving electric service from the Cooperative at the site of the Facilities only upon the express written consent of the Cooperative. The assignee will be responsible for the proper operation and maintenance of the Facilities and must agree in writing to be subject to all provisions of this Agreement. Cooperative may assign the Agreement to another entity without the approval of Member.



**18. Notices** – Notices given under this Agreement are deemed to have been duly delivered once received by United States certified mail, return receipt requested, postage prepaid, to:

Cooperative:

Southern Illinois Electric Cooperative  
P.O. Box 100  
7420 US Highway 51 South  
Dongola, IL 62926

With a copy to:

Ronald E. Osman  
Ronald E. Osman & Associates, Ltd.  
P.O. Box 939  
Marion, IL 62959

Member:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other.

**19. Invoicing and Payment.** Invoicing and payment terms for services associated with this Agreement shall be consistent with applicable Cooperative policies, including Policy 475 – COOPERATIVE PURCHASE OF EXCESS MEMBER OWNED GENERATION CAPACITY.

**20. No PURPA Interconnection.** The parties agree that the member's facility is not a qualifying small power production facility or qualifying cogeneration facility as defined in the Public Utility Regulatory Policies Act of 1978 and that nothing herein confers any rights or obligations on either party by application of that Act.

**21. No Third-Party Beneficiaries.** This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons,

corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties.

**22. Waiver.** The failure of either party to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights or duties of the provisions in this Agreement.

**23. Governing Law and Jurisdiction** – It is agreed that this Agreement shall be construed and governed in accordance with the laws of the State of Illinois and that the circuit court of Union County or the United States District Court for the Southern District of Illinois has jurisdiction on all matters relating to the enforcement of this Agreement.

**24. Attorney Fees.** If either Party brings suit against the other in connection with this Agreement, the prevailing Party shall be entitled to receive from the other Party reasonable attorneys' fees and other costs and expenses incurred by such Party in connection with such suit regardless of whether such suit is prosecuted to judgment. As used herein, "prevailing party" shall mean, in the case of claimant, one who is successful in obtaining substantially all of the relief sought, and in the case of a defendant or respondent, one who is successful in denying substantially all of the relief sought by claimant.

**IN WITNESS WHEREOF**, the Parties have caused this Agreement to be signed by their duly authorized representatives.

SOUTHERN ILLINOIS ELECTRIC  
COOPERATIVE:

MEMBER:

BY: \_\_\_\_\_  
\_\_\_\_\_

TITLE: \_\_\_\_\_

WITNESS: \_\_\_\_\_

## **EXHIBIT A**

### **DESCRIPTION OF FACILITY SCHEDULE AND POINT OF INTERCONNECTION**

Facility Schedule No.

Point of Interconnection

*Member will, at Member's own cost and expense, operate, maintain, repair, and inspect, and shall be fully responsible for its Facilities, unless otherwise specified on Exhibit A.*

## FACILITIES SCHEDULE NO.

1. Name:
2. Facilities location:
3. Delivery voltage:
4. Metering (voltage, location, losses adjustment due to metering location, and other:
5. Normal Operation of Interconnection:
6. One line diagram attached (check one):/\_\_\_\_\_ Yes / \_\_\_\_\_ No
7. Facilities to be furnished by Cooperative:
8. Facilities to be furnished by Consumer:
9. Cost Responsibility:
10. Control area interchange point (check one): / \_\_\_\_\_ Yes / \_\_\_\_\_ No
11. Supplemental terms and conditions attached (check one): / \_\_\_\_\_ Yes / \_\_\_\_\_ No
12. Cooperative requirements for DG interconnection attached (check one):  
/ \_\_\_\_\_ Yes / \_\_\_\_\_ No

SOUTHERN ILLINOIS ELECTRIC  
COOPERATIVE:

MEMBER:

BY: \_\_\_\_\_

\_\_\_\_\_

TITLE: \_\_\_\_\_

\_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_