

# **Standard for Interconnecting Customer-Owned Small Generation 100kW or Less with Electric Power Systems (EPS) (Interconnection Standard)**

## **1. Overview:**

This Standard contains the requirements, in addition to applicable tariffs and service regulations, for parallel interconnection of non-utility owned single phase small generation systems which are rated at 20 kW or less for residential customers and 100 kW or less for nonresidential customers and are consistent with Section 6 below. “Small” generator procedures for application for and acceptance of an interconnection request for such generators are included in Section 8.

Small Generators meeting the criteria and conditions included and/or referenced herein will normally be approved for interconnection except in extenuating site specific circumstances.

### **1.1 Scope:**

This Standard applies only to “Small” generators installed at existing radial fed Area EPS (Area Electric Power System) distribution customers, with a determination of minimal impact.

### **1.2 Purpose:**

This document was developed to provide a uniform simplified standard for interconnecting certain small generators of 100 kW or less capacity by retail customers of the Authority.

### **1.3 Limitations:**

This Standard does not cover momentary parallel systems used for the exclusive purpose of closed transition of loads. The Standard does not cover small generators connecting to area EPS network systems. The Standard does not cover customers served directly from area EPS transmission facilities.

Although outside the scope of this document, generators failing to meet the requirements of this Standard may still be considered for interconnection after more detailed review specific to the proposed application and generator.

### **1.4 Conflicts:**

In case of conflict between any provision of a tariff and of this Standard, the provisions of the tariff shall prevail.

## **2. References:**

IEEE 929, Recommended Practice for Utility Interface of Photovoltaic (PV) Systems, latest published edition.

IEEE 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems, latest published edition.

IEEE 1547.1, Standard for Conformance Tests Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems, latest published edition.

IEEE P1547.2, Draft: Application Guide for IEEE 1547 Standard for, Interconnecting Distributed Resources with Electric Power Systems.

IEEE P1547.3, Draft: Guide For Monitoring, Information Exchange, and Control of Distributed Resources Interconnected with Electric Power Systems..

UL 1741, Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources, latest published edition.

NFPA 70, National Electrical Code, latest published edition.

### **3. Definitions:**

**3.1 Area EPS:** Area Electric Power System: The electric facilities of the local utility.

**3.2 Authority: the South Carolina Public Service Authority (Santee Cooper)** - The electric utility owning and operating the Area EPS.

**3.3 Closed Transition of Loads:** A make-before-break load transfer scheme, in which the Generator is operated in parallel with the Area EPS for a brief period of time, to ensure that the load is maintained while in transition from the Authority to the Generator or vice versa. This transition scheme includes fast transfer systems, generally less than 100 ms, and soft load systems where the parallel condition is maintained for a number of seconds.

**3.4 Customer:** The electric Customer of record for the location where the generation will be interconnected.

**3.5 Generator:** The distributed “generation system” and equipment to be interconnected to the Area EPS.

**3.6 Isolation Device:** A manual load-break disconnect switch or safety switch with a clear visible indication of switch position

between the Area EPS and the Generator. The switch must have pad lock provisions for locking in the open position. The switch must be visible to, and accessible to Authority personnel. The switch must be in close proximity, and visible from, the Customer's point of electrical interconnection with the Authority's Area EPS. The switch must be labeled "Generator Disconnect Switch". The switch may isolate the Generator system and its associated load from the area EPS or disconnect only the Generator from the Area EPS.

The Authority shall have access to the Isolation Device at all times.

**3.7 Momentary Parallel Systems:** A Generator utilizing only a Closed Transition mode of operation.

**3.8 Point of Common Coupling:** "Point of common coupling" means the point in the interconnection of a customer-generator facility with an electric delivery system and shall have the same meaning as in IEEE Standard 1547.

#### **4. General Requirements:**

**4.1 Service Regulations and Tariff / Rate Schedule:** This Standard for Interconnecting Customer-Owned Small Generation 100 kW or Less with Electric Power Systems is governed by the Authority's Service Regulations and Tariff/Rate Schedules.

**4.2 Acceptance for Interconnection:** Each application and Generator is evaluated individually and accepted or denied for interconnection with the Authority's Area EPS. Any Authority evaluation is from the perspective of the impact of the interconnection on the Authority and its system. The Customer is solely responsible for ensuring the safe installation and operation of the Generator. Generators shall not be interconnected until the requirements and process described in this Standard have been satisfied.

The acceptance for interconnection is for the original applicant only. Subsequent owners or occupants of a site with an interconnected generator must submit a new Application to the Authority. The existing customer assumes the responsibility of ensuring a new customer is aware the new customer must re-apply and obtain the Authority's written acceptance or the equipment must be removed or disabled to prevent future interconnection and/or operation. The application fee for the re-

applying new customer is waived and the technical requirements may be grandfathered for subsequent owners as long as the Generator's maximum output capacity has not been changed and/or the interconnection protection system has not been modified.

**4.3 Waiving Requirements:** All requirements of this Standard must be met although the Authority may, in its sole discretion, waive all or some of the requirements of this Standard. Waivers must be issued in writing.

**4.4 Interconnect Cost:** The Customer will bear all the cost of interconnection on the Customer's side of the point of interconnection as well as necessary changes or upgrades to the Area EPS to meet all technical and protection requirements to address any power quality, reliability or safety issues caused by the Generator operation or connection to the Area EPS.

**4.5 Isolating or Disconnecting the Generator:** The Authority may isolate the Customer's premises and/or Generator from Authority's Area EPS when necessary in order to construct, install, repair, replace, remove, investigate, or inspect any of Authority's equipment or part of Authority's system; or if Authority determines that isolation of the Customer's premises and/or Generator from Authority's Area EPS is necessary because of emergencies, forced outages, force majeure or compliance with prudent electrical practices. Whenever feasible, the Authority shall give the Customer reasonable notice of the isolation of the Customer's premises and/or Generator from Authority's Area EPS. Notwithstanding any other provision of this Standard, if at any time the Authority determines that either the Generator may endanger the Authority's personnel or other persons or property, or the continued operation of the Customer's Generator may endanger the integrity or safety of the Authority's electric system, the Authority shall have the right to isolate the Customer's premises and/or Generator from the Authority's Area EPS.

The Authority may disconnect the Area EPS electric service to any Generator determined to be malfunctioning, or not in compliance with this Standard. The Customer must provide proof of compliance with this Standard before the electrical service will be reconnected.

**4.6 Limitation of Liability:** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or

omission hereunder, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, special, incidental, consequential, or punitive damages of any kind.

**4.7 Indemnification:** The parties shall at all times indemnify, defend and save the other party harmless from any and all damages, losses, claims, including claims and actions relating to injury or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney's fees, and all other obligations by or to third parties, arising out of or resulting from the other party's action or inaction of its obligations hereunder on behalf of the indemnifying party, except in cases of gross negligence or intentional wrongdoing by the indemnified party.

**4.8 Access to and Operation of the Generator:** The Customer shall limit access to and operation of the Generator to qualified persons and assumes the responsibility of maintaining control of the operation of the Generator.

**4.9 Insurance:** The Customer shall obtain and retain, for as long as its Generator is interconnected with the Authority's system, liability insurance which protects the Customer from claims for bodily injury and/or property damage. For a non-residential Customer the minimum coverage shall be comprehensive general liability insurance with coverage at least \$300,000 per occurrence and for a residential Customer the minimum coverage shall be at a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence. This insurance shall be primary for all purposes. The Customer shall provide certificates evidencing this coverage as required by the Authority. The Authority reserves the right to refuse to establish, or continue the interconnection of the Customer's Generator with the Authority's system, if such insurance is not in effect.

**4.10 Generator Alterations:** Changes to the Generator output capacity and/or modification to the protection system required to meet this Standard are prohibited without submitting a new "Application to Interconnect Small Generator" and obtaining a new acceptance from Authority.

**4.11 Discontinuing Operation:** The Customer shall notify the Authority prior to permanently discontinuing operation of the Generator interconnected with the Authority.

**4.12 Interconnection Application Fee:** The nonrefundable interconnection application fee covers only the application process for interconnection of Generators and shall be one of the following:

4.12.1. For residential service customers: \$100.00

4.12.2. For nonresidential service customers: \$250.00

## **5. Generator, Inverter and Protective Equipment Technical Requirements:**

**5.1 General:** The Authority may elect to visit the site and verify compliance with any requirement of these Standards.

The Generator must be single phase only. Three phase Generators are not covered by this Standard although multiple single phase Generators meeting all requirements of this Standard may be allowed at the sole discretion of the Authority.

**5.2 Required Standards:** The Customer must certify the following requirements:

5.2.1. The installation of the Generator and all equipment in the system must comply with the latest published edition of IEEE 929, IEEE 1547, and IEEE 1547.1 as applicable.

5.2.2. Future IEEE Standards and/or Recommended Practices: IEEE P1547.2 and P1547.3 are still proposed draft documents and still in working groups at the time of writing this Standard. Generators interconnected after these standards are published may be required to comply with these IEEE documents.

5.2.3. The Customer's inverter or interconnection protection system must be tested and listed for compliance with the latest published edition of Underwriters Laboratories, Inc. (UL) 1741.

5.2.4. The Generator must pass the anti-islanding test in UL 1741.

5.2.5. The Customer's inverter or interconnection protection system must be manufactured after November 7, 2000.

5.2.6. Any protection settings affecting anti-islanding performance must not be adjusted after passing anti-islanding tests.

**5.3 Additional PV (Photovoltaic) Systems requirements:** The Customer must certify that the Generator meets the following requirements:

5.3.1. The installation of the Generator and all equipment in the system must comply with the latest published edition of IEEE 929.

5.3.2. The Generator is a non-islanding type as defined in IEEE 929.

**5.4 Electrical Contractors and NEC Code Inspections:** All installed wiring, protection devices, cabinets and connectors, etc. must comply with the latest published edition of the NEC as used by the local jurisdiction and all applicable local codes. An approved electrical inspection by the authority having jurisdiction is required.

**5.5 Isolation Device:** An Isolation device as defined in Section 3.6 is required. The Authority in its sole discretion determines if the device is suitable.

## **6. Screens and Requirements for determination of minimal impact:**

**6.1 Area EPS Circuit Level Saturation:** The cumulative total of the maximum rated output of all interconnected Generation shall not exceed the following limits, per circuit, for the given Area EPS distribution circuit phase-to-phase voltage rating:

- Circuits 20 kV or greater: 100 kW
- Circuits 10 kV but less than 20 kV: 60 kW
- Circuits less than 10 kV: 30 kW

### **6.2 Limitations of Area EPS Facilities:**

6.2.1. **General:** The Generator shall meet each of the following requirements to qualify for interconnection and each requirement must be maintained after commissioning.

6.2.2. **Area EPS Capacity Limitation:** The maximum rated output of the Generator or total aggregate of multiple Generators shall not exceed the capacity or ratings of the Area EPS facilities as determined by the Authority.

6.2.3. **Secondary, Service and Service Entrance Limitation:** The Generator capacity shall be less than the capacity of the Area EPS owned secondary, service and service entrance cable connected to the Point of Common Coupling. The Authority will

make this determination after reviewing the Area EPS installed facilities.

6.2.4. Transformer Loading Limitation: The Generator shall not have the ability to overload the Area EPS transformer or any EPS transformer winding beyond manufacturer or nameplate ratings.

6.2.5. Integration with Area EPS Grounding: The grounding scheme of the Generator shall comply with IEEE 1547.

6.2.6. Balance Limitation: The generator shall not create a voltage imbalance of more than 3% if the Area EPS transformer, with the secondary connected to the Point of Common Coupling, is a three-phase transformer.

6.2.7. Any changes or upgrades to Area EPS to accommodate the Generator will be pursuant to Section 4.4 above.

## **7. Commissioning, Maintenance and Inspections:**

7.1 **General:** The Customer or Customer's authorized representative shall perform commissioning, and maintenance as outlined in this section for all Generator equipment. All testing shall be documented and the Authority shall be granted the right to audit the documentation. The Authority reserves the right to require and witness testing of the Customer's Generator.

The Customer's Generator is subject to inspection by an Authority representative at a mutually agreeable time, as the Authority deems necessary.

The Authority's inspection and/or witnessing the testing of the Customer's equipment shall not be construed as the Authority warranting or implying that the Customer's equipment is safe or reliable. The Authority shall not be liable to the Customer or others as a result of inspection and witnessing of tests of the Customer's Generator or equipment.

7.2 **Commissioning:** The manufacturer's recommended and required commissioning, installation and functional tests shall be completed, with successful results, in accordance with the manufacturer's published recommendations. Commissioning tests in IEEE 1547 shall also be completed with successful results unless these IEEE 1547 tests are duplications of the manufacturer tests. After obtaining the final electrical inspection, the Customer shall invite

the Authority to the commissioning test and perform the test at a mutually agreed date but not later than 25 days after the invitation.

**7.3 Maintenance and Testing:** Maintenance shall be performed in accordance with the manufacturer's published maintenance procedures. Periodic testing shall be completed with successful results in accordance with the manufacturer's published recommendations for periodic testing at, or before, the recommended testing intervals. If the manufacturer does not publish recommendations for periodic testing, suitable testing shall be performed that assures proper protection for the Area EPS, at an interval not to exceed two years. All test results shall be documented and available to the Authority for review upon request.

**7.4 Failure of Test:** If a Generator fails any test, it shall be disabled and the Isolation Device must be opened and locked open until the equipment is repaired.

## **8. Procedures**

**8.1 Interconnection Request:** The Customer submits to the Authority an "Application to Interconnect Customer-Owned Small Generation" accompanied with the appropriate Interconnection Application Fee to a designated Authority contact or department.

**8.2 Queue Position:** The Authority considers the application based on the date a completed application is received by the Authority in reference to priority when evaluating the Area EPS screen limits.

**8.3 Impact Screens:** The Authority accepts or rejects the application for interconnection after reviewing the application and performing the screens outlined in this Standard. If the application is rejected, the Customer may request the Authority to reconsider interconnection outside the scope of this Standard. If the application is accepted the process will continue.

It may be necessary to visit the site to gather information on the Area EPS facilities or the Customer's Generator equipment.

The Authority will complete the Impact Screen process within 30 days (absent extenuating circumstances) of receipt of a complete "Application to Interconnect Customer-Owned Small Generation." Extenuating circumstances include, but are not limited to, Force Majeure, adverse weather conditions, and system emergencies.

**8.4 Agreement for Interconnection:** After all previous items in the process are complete, the Authority will provide an agreement to the Customer within 10 days of the completion of the Impact Screens as stated in 8.3. Once the Customer returns the executed Agreement to the Authority, the Authority will execute the Agreement and return a copy to the Customer. Customer shall not interconnect the generator to Authority's Area EPS Facilities unless an Agreement between Customer and Authority has been executed by both parties.

**8.5 Installation and Inspections:** The Customer installs the Generator and the Customer is responsible for obtaining an approved electrical inspection from the local authority having jurisdiction for the Generator installation. The Customer shall request the inspector to forward a copy of the approved inspection to the Authority contact processing the Generator interconnect request.

**8.6 Area EPS Facilities:** At the Customer's expense the Authority installs or alters the Area EPS facilities as necessary to accommodate the interconnection.

**8.7 Commissioning Test:** The Customer performs the required commissioning test and forwards a confirmation letter to the Authority unless the Authority witnesses the test and it is successful. The Customer shall invite the Authority to the commissioning test and perform the test at a mutually agreed date and time if the Authority elects to attend.

**8.8 Completion of Application/Expiration Process:** The application shall be valid for no less than one year once the Impact Screen process is completed.

APPLICATION TO INTERCONNECT CUSTOMER-OWNED SMALL GENERATION  
100 kW OR LESS

Customer hereby gives notice of intent to operate an interconnected generating facility pursuant to the "Standard for Interconnecting Customer-Owned Small Generation 100 kW or less with Electric Power Systems (Interconnection Standard)". Permission to interconnect is not granted until an Interconnection Agreement has been completed between the Authority and the Customer.

**Section 1. Contact Information**

**Customer** (Name) : \_\_\_\_\_ e-mail Address: \_\_\_\_\_  
US Mail Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_ Zip Code: \_\_\_\_  
Daytime Phone Number: \_\_\_\_\_ Alternate Phone / Cell Number \_\_\_\_\_  
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**Installer** (Name): \_\_\_\_\_ Date: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
US Mail Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_ Zip Code: \_\_\_\_  
Company: \_\_\_\_\_ Electrical / Contractor license number(s) \_\_\_\_\_  
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**Electrical Inspector** (Name): \_\_\_\_\_ County: \_\_\_\_\_ Phone: \_\_\_\_\_

**Section 2. Generator and Facility Information**

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

Electric Utility Name: \_\_\_\_\_ Account Number: \_\_\_\_\_

Premise Number: \_\_\_\_\_ Customer Type: Residential , Commercial , Other \_\_\_\_\_

Is there an existing interconnected generator at this facility? Yes , No

Total proposed aggregate generation output rating at this site (kW): \_\_\_\_\_

Generator / Inverter	#1	#2	#3
Energy Source / Type			
Manufacturer Name	_____	_____	_____
Model Name & No. (Specific)	_____	_____	_____
Nameplate Rating (kW AC)	_____	_____	_____
Nominal Voltage (Volts AC)	_____	_____	_____

(Note: If more than 3 Generators / Inverters will be used, complete a separate attachment with the information above)

If a customer-owned transformer will be used, specify Mfg, type and ratings: \_\_\_\_\_  
(Attach Transformer Manufacturer Specifications)

**Section 3. Installation Information**

Proposed Installation Date: \_\_\_\_\_ Proposed Interconnection Date: \_\_\_\_\_

**Section 4. Certification**

The interconnection protection system is tested and listed for compliance with the latest published edition of Underwriters Laboratories (UL) 1741 including the anti-islanding test. The system (is / will) be installed in compliance with IEEE 929 and or IEEE 1547 as applicable, all manufacturer specifications, the National Electric Code and all local codes. No protection settings affecting anti-islanding have been or will be adjusted or modified.

I hereby certify that, to the best of my knowledge, all of the information provided in this Application is true and correct and the generator will comply with the Interconnection Standard stated above.

Signature of Customer: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Attach application fee and one-line (electrical drawing of installation) with application.

Submit Application to\*\*: (Utility Representative) \_\_\_\_\_

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Authority (Electric Utility Use only): Note: Only signifies receipt of this form.

This application received by Santee Cooper

Signed (Utility Representative): \_\_\_\_\_ Date: \_\_\_\_\_

Contact and mailing information

For installation in the Garden City and Conway Districts:  
Area Engineering Supervisor  
900 Inlet Square Dr  
Murrells Inlet, SC 29576-7812  
(843) 651-1598 x3808

For installations in the Myrtle Beach and North Myrtle Beach Districts:  
Area Engineering Supervisor  
1000 2<sup>nd</sup> Ave North  
North Myrtle Beach, SC 29582-3094  
(843) 249-3505 x3410

For installation in the Berkeley District:  
Manager Berkeley Operations  
PO Box 2946101  
Moncks Corner, SC 29461-6101  
(843) 761-8000 x5204

INTERCONNECTION AGREEMENT FOR CUSTOMER-OWNED SMALL GENERATION  
100 kW OR LESS

This INTERCONNECTION AGREEMENT FOR CUSTOMER-OWNED SMALL GENERATION 100 kW OR LESS, (the "Agreement"), is entered into as of \_\_\_\_\_, 20\_\_, (the "Effective Date"), by and between \_\_\_\_\_, hereinafter called "Customer", and "Santee Cooper", hereinafter called "Authority". Customer and Authority are hereinafter collectively referred to as the "Parties" or "Party". In consideration of the mutual covenants set forth herein, the Parties agree as follows:

**1. SCOPE OF AGREEMENT:**

- (a) This Agreement relates solely to the conditions under which Authority and Customer agree that Customer's generation system and equipment, hereinafter the "Generator", and located at or near (*address*) \_\_\_\_\_ may be interconnected to and operated in parallel with Authority's electric system. This Agreement does not authorize Customer to export power or constitute an agreement to purchase or wheel Customer's power. Other services that Customer may require from Authority shall be covered under separate agreements.
- (b) Authority will supply the electrical requirements of Customer that are not supplied by Customer's Generator. Such electric service shall be supplied to Customer under Authority's rates schedules, riders, and services regulations applicable to Customer's class of service.

**2. INTERCONNECTION:**

- (a) Authority hereby authorizes Customer to interconnect and commence operation under the terms of this Agreement on or after (*date*) \_\_\_\_\_ subject to Customer having received Authority's written acceptance specified in 2.(f) below.
- (b) Customer's Generator must be manufactured, installed and operated in accordance with governmental and industry standards and must conform with Authority's "Standard for Interconnecting Customer-Owned Small Generation 100 kW or less with Electric Power Systems (EPS)", hereinafter referred to as "Interconnection Standard", a copy being attached hereto and made a part of this Agreement.
- (c) Customer's Generator shall be installed as described in Customer's Application To Interconnect Customer-Owned Small Generation 100 kW or Less, a copy attached hereto and made a part hereof.
- (d) The nameplate output of the Generator is \_\_\_\_\_ kW in the form of \_\_\_\_\_ phase, \_\_\_\_\_ wires, alternating current of 60 hertz frequency and at \_\_\_\_\_ volts.
- (e) The point of interconnection between Customer and Authority hereunder will be \_\_\_\_\_.
- (f) Customer shall not interconnect Customer's Generator with Authority's electric system nor commence parallel operation of Customer's Generator until both Parties have accepted this Agreement and the requirements for interconnection stated in the Interconnection Standard have been met. Authority shall have the right and opportunity to have representatives present at the initial testing of Customer's protective apparatus. Customer shall notify Authority \_\_\_\_\_ business days prior to the initial testing. In the event Customer has interconnected Customer's Generator without Authority's acceptance of this Agreement or the Generator has not met the requirements of the Interconnection Standard, Authority shall have the right to immediately isolate Customer's premises and/or Generator from Authority's system until Authority's acceptance is granted and the requirements of the interconnection Standard have been met.
- (g) Customer shall not make any changes to the Generator output capacity and/or modification to the protection system required to meet the Interconnection Standard without first submitting a new Application To Interconnect Customer-

Owned Small Generation 100 kW or Less and obtaining a new acceptance from Authority before making the changes to the Generator.

- (h) **Isolation Device:** Customer shall install a manual load-break disconnect switch with a clear visible indication of switch position between Authority's electric system and Customer's Generator. The Isolation Device shall be installed as specified in the Interconnection Standard.
- (i) **Warning Label:** Customer will install a permanent warning label in a conspicuous place in close proximity to the electric meter or on the meter base to notify Authority personnel that there is a generator installed on the load side of the meter. The warning label shall not be placed in a location that would interfere with the ability of Authority personnel to read the electric meter. Customer shall also place a warning label on the Isolation Device. Authority will provide the warning labels to Customer. The warning labels must be in place before the Generator can be interconnected with Authority's system.

3. **INTERCONNECTION COST:** The cost to Customer for all Authority owned and maintained facilities constructed and/or installed by Authority to accommodate the interconnection and safe operation of Customer's Generator in parallel with Authority's electric system shall be determined in accordance with Authority's applicable Service Regulations and/or Terms and Conditions of Retail Electric Service. The cost to Customer, termination provisions, and other applicable terms and conditions related to facilities installed by Authority are as stated in Exhibit \_\_\_\_\_, hereto attached and made a part hereof.

4. **RIGHT OF ACCESS AND EQUIPMENT INSTALLATION:**

- (a) **Access To Premises:** The duly authorized agents of Authority shall have the right of ingress and egress to the premises of Customer at all reasonable hours, over the same general route as Customer utilizes, for the purpose of reading meters, inspecting Authority's wiring and apparatus, changing, exchanging, or repairing its property on the premises of Customer and to remove such property at the time of or at any time after the suspension of interconnection of the Generator or termination of this Agreement. Authority shall have access to Customer's Isolation Device at all times.
- (b) Authority's obligation to provide the interconnection as covered in this Agreement on the agreed upon Effective Date is contingent upon Authority receiving the rights-of-way and receiving the necessary equipment in sufficient time to install it on or before that date.

5. **MAINTENANCE OF INTERCONNECTION FACILITIES:** Customer shall maintain Customer's Generator and all related Customer-owned protective equipment and facilities in a safe and prudent manner, conforming to all applicable laws and regulations. Customer shall reimburse Authority for any and all losses, damages, claims, penalties or liability Authority incurs as a result of Customer's failure to maintain the Generator, equipment, and facilities in a safe and prudent manner or failure to obtain and/or maintain any governmental authorizations or permits required for construction and operation of Customer's facility.

6. **DISCONNECTION OF GENERATOR:** Authority may isolate Customer's premises and/or Generator from Authority's system when necessary in order to construct, install, repair, replace, remove, investigate, or inspect any of Authority's equipment or part of Authority's system; or if Authority determines that isolation of Customer's premises and/or Generator from Authority's system is necessary because of emergencies, forced outages, Force Majeure or compliance with prudent electrical practices. Whenever feasible, Authority shall give Customer reasonable notice of the possible isolation of Customer's premises and/or Generator from Authority's system. Notwithstanding any other provision of this Agreement, if at any time Authority determines that either the Generator may endanger Authority's personnel or other persons or property, or the continued operation of Customer's Generator may endanger the integrity or safety of Authority's electric system, Authority shall have the right to isolate Customer's premises and/or Generator from Authority's system. **It is agreed that Authority shall have no liability for any loss of sales or other damages, including all punitive and consequential damages for the**

**loss of business opportunity, profits, or other losses, regardless of whether such damages were foreseeable, for the isolation of Customer's premises and/or Generator from Authority's system per this Agreement.** Authority shall expend reasonable effort to reconnect the Customer's premises and/or Generator with the Authority's system in a timely manner.

7. **PERMITS AND APPROVALS:** Customer shall obtain all environmental and other permits required by governmental authorities prior to construction, installation, and interconnection of the Generator. Customer shall also maintain these applicable permits and compliance with these permits during the term of this Agreement.

8. **INDEMNITY AND LIABILITY:**

(a) **Limitation of Liability:** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission hereunder, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, special, incidental, consequential, or punitive damages of any kind.

(b) **Indemnification:** The parties shall at all times indemnify, defend and save the other party harmless from any and all damages, losses, claims, including claims and actions relating to injury or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney's fees, and all other obligations by or to third parties, arising out of or resulting from the other party's action or inaction of its obligations hereunder on behalf of the indemnifying party, except in cases of gross negligence or intentional wrongdoing by the indemnified party.

(c) The provisions of Section 8.(a) shall not be construed to relieve any insurer of its obligations to pay any claims in accordance with the provision of any valid insurance policy.

(d) If Customer at any time fails to comply with the insurance provisions of this Agreement, Customer shall, at its own cost, defend, save harmless and indemnify Authority, its directors, officers, employees, agents, assignees, and successors in interest from and against any and all loss, liability, damage, claim, cost, charge, demand, or expense of any kind or nature (including attorney's fees and other costs of litigation) resulting from the death or injury to any person or damage to any property, including the personnel and property of Authority, its contractors, its customers, and/or the public to the extent that Authority would have been protected had Customer complied with all such insurance provisions. The inclusion of this Section 8.(d) is not intended to create any express or implied right in Customer to elect not to provide any such required insurance.

(e) Customer shall be responsible for installing and maintaining devices adequate to protect against damages caused by irregularities or outages on Authority's system, regardless of the cause or fault, including devices to protect against voltage fluctuations and single phasing.

9. **INSURANCE:**

(a) Customer shall obtain and retain, for as long as its Generator is interconnected with the Authority's system, liability insurance which protects Customer from claims for bodily injury and/or property damage. For a non-residential Customer the minimum coverage shall be comprehensive general liability insurance with coverage at least \$300,000 per occurrence and for a residential Customer the minimum coverage shall be at a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence. Prior to interconnection of the Generator with Authority's system, Customer shall furnish a properly executed certificate of insurance to Authority clearly evidencing the required coverage and any exclusions applicable to such coverage. The certificate shall provide that the insurance coverage shall not be canceled or modified unless and until Authority receives at least thirty (30) days prior written notice. Customer shall further replace such certificates for policies expiring during the period its Generator is interconnected with Authority's system. Authority has

the right to refuse to establish or continue the interconnection of Customer's generation facility to Authority's system if such insurance is not in effect.

- (b) Insurance on the premises where the Customer's Generator is located shall, by endorsement to the policy or policies, provide for thirty (30) days of written notice to Authority prior to cancellation, termination, alteration, or material change of such insurance.

10. **FORCE MAJEURE:** For purposes of this Agreement, Force Majeure shall mean any act of God, labor disturbance, act of the public enemy, war, terrorism, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other caused beyond a Party's control. A Force Majeure event does not include an act of negligence or intentional wrongdoing.
11. **NON-WARRANTY:** Authority's approvals given pursuant to this Agreement or actions taken hereunder shall not be construed as any warranty or representation to Customer or any third party regarding the safety, durability, reliability, performance or fitness of Customer's generation and service facilities, its control or protective devices or the design, construction, installation or operation thereof.
12. **EFFECTIVE TERM AND TERMINATION RIGHTS:** This Agreement becomes effective when executed by both parties and shall continue in effect until terminated. The Agreement may be terminated in accordance with the following:
  - (a) If Customer desires to terminate the Agreement, Authority will agree to such termination if Authority is satisfied that Customer no longer can operate Customer's Generator in parallel with Authority's system at the premises and all bills for services previously rendered to Customer, plus any applicable termination charges as specified in Exhibit \_\_\_\_\_, have been paid. Authority may waive the termination charges if Authority has secured or expects to secure from a new occupant or operator of the premises an Agreement satisfactory to Authority for the interconnection to Authority for a term not less than the unexpired portion of Customer's Agreement.
  - (b) Authority, in addition to all other legal remedies, may either terminate the Agreement or suspend interconnection with Customer (1) for any default or breach of Agreement by Customer, (2) for failure to pay any applicable bills when due and payable, (3) for a condition on Customer's side of the point of interconnection actually known by Authority to be, or which Authority reasonably anticipates may be, dangerous to life or property, (4) if Customer either fails to energize the Generator within 12 months of the Effective Date of this Agreement or permanently abandons the Generator, or (5) by giving the Customer at least sixty days notice in the event that there is a material change in an applicable rule or statute concerning interconnection and parallel operation of the Generator, unless the Customer's installation is exempted from the change or the Customer complies with the change in a timely manner. No such termination or suspension, however, will be made by Authority without written notice delivered to Customer, personally or by mail, stating what in particular in the Agreement has been violated, except that no notice needs to be given in instances set forth in 12.(b)(3) above.

Failure to operate the Generator for any consecutive 12 month period after the Effective Date shall constitute permanent abandonment unless otherwise agreed to in writing between the Parties.

**13. GENERAL:**

- (a) This Agreement and the applicable Schedule, Riders, Interconnection Standard, Service Regulations, and Terms and Conditions of Retail Electric Service hereto attached are subject to changes or substitutions, either in whole or in part, made from time to time by the Authority.

- (b) **Headings:** The descriptive headings of the various sections of this Agreement have been inserted for convenience of reference only and are to be afforded no significance in the interpretation or construction of this Agreement.
14. **ENTIRE AGREEMENT:** This Agreement and the documents attached hereto constitute the entire Agreement between the Parties relating to the subject matter hereof, there being no other agreements or understandings, written or oral, other than those contained in this Agreement and the attachments hereto. This Agreement does not modify, change or impact any other agreement between the Parties relating to the supply of electric service, or the sale of, or purchase of, electric power.
  15. **AMENDMENTS:** The Parties may amend this Agreement but such amendment may only be effective and enforceable if it is set forth in a written instrument signed by both Parties.
  16. **ASSIGNMENT:** Customer shall not assign its rights nor delegate its duties under this Agreement without Authority's written consent. Any assignment or delegation Customer makes without Authority's written consent shall not be valid. Authority shall not unreasonably withhold its consent to Customer's assignment of this Agreement. An assignee or new customer must submit a new Application To Interconnect Customer-Owned Small Generation 100 kW or Less to Authority and obtain Authority's written approval before any assignment shall occur. Customer assumes the responsibility of ensuring a new customer or assignee is aware the new customer or assignee must re-apply and obtain Authority's written acceptance or the equipment must be removed or disabled to prevent future interconnection and/or operation.
  17. **THIRD PARTIES:** This Agreement is intended solely for the benefit of the parties hereto. Nothing in this Agreement shall be construed to create any duty to, or standard of care with reference to, or any liability to, any person not a party of this Agreement.
  18. **GOVERNING LAW:** This Agreement shall be governed under laws of the State of South Carolina.
  19. **SEVERABILITY:** If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction, such portion or provision shall be deemed separate and independent, and the remainder of this Agreement shall remain in full force and effect.
  20. **WAIVER:** No delay or omission in the exercise of any right under this Agreement shall impair any such right or shall be taken, construed or considered as a waiver or relinquishment thereof, but any such right may be exercised from time to time and as often as may be deemed expedient. In the event that any agreement or covenant herein shall be breached and thereafter waived, such waiver shall be limited to the particular breach so waived and shall not be deemed to waive any other breach hereunder.
  21. **CUSTOMER CERTIFICATION:** By signing this Agreement below, Customer hereby certifies that, to the best of Customer's knowledge, all of the information provided in the Application To Interconnect Customer-Owned Small Generation 100 kW or Less is true and correct, the Generator will comply with the Interconnection Standard, and that Customer has received and reviewed this Agreement.

22. **ACCEPTANCE AND SIGNATURES:** Upon the acceptance hereof by Authority, evidenced by the signature of its authorized representative appearing below, this document shall be an Agreement for the interconnection of Customer's Generator to Authority's system.

Witness as to Customer:  
Witness:

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

Customer:

\_\_\_\_\_

By \_\_\_\_\_

Title (for commercial) \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

ACCEPTED: Santee Cooper

Santee Cooper:

By \_\_\_\_\_

\_\_\_\_\_

Title \_\_\_\_\_

Address of Customer:

Name:

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_