SAN BERNARD ELECTRIC COOPERATIVE, INC.

Distributed Generation Procedures & Guidelines Manual for Members

Revision 2.1

Date: February 25, 2025 Approved by SBEC Board of Directors

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GENERAL

In order to receive service from San Bernard Electric Cooperative, Inc. a customer must join or become a "Member" of the Cooperative. However, throughout this manual, the terms "Customer" and "Members" may be interchangeable. For more information about the cooperative membership application process, including any applicable membership fees or deposits, see the Cooperative to request new member information.

It is the intent of the Cooperative to allow Members to install Distributed Generation (DG), provided the Member's DG facility does not adversely affect the Cooperative. The Member must conduct his/her own analysis to determine the economic benefit of DG operation.

A DG facility that is not connected to the Cooperative's system in any way is known as "standalone" or "isolated" DG. The Member may operate a DG facility in stand-alone or isolated fashion as long as such DG facility does not adversely affect the Cooperative's system. A DG facility connected <u>in any way</u> to the Cooperative's system shall be considered as in "parallel." <u>For</u> <u>purposes of this Manual, a DG facility is considered operating in "parallel" anytime it is connected</u> to the Cooperative's system in any way, even if the Member does not intend to export power. All provisions of this Manual shall apply to parallel operation of DG facilities as so defined.

This Manual is not a complete description or listing of all laws, ordinances, rules and regulations, nor is this Manual intended to be an installation or safety manual. The Member requesting to interconnect a DG facility to the Cooperative's system is responsible for and must follow, in addition to all provisions of this Manual, the Cooperative's *Rules and Regulations and Tariffs for Electric Service*, the Cooperative's *Line Extension Policy*, the *Policies and Procedures* of the Cooperative's power supplier where applicable, the *Policies and Procedures* of the Cooperative's transmission service provider where applicable, the current *IEEE 1547 Standard Guide for Distributed Generation Interconnection* (a copy is on file at the Cooperative for inspection along with information so the Member may obtain his/her own copy), other applicable IEEE standards, applicable ANSI standards, including ANSI C84.1 Range A and any other applicable governmental and regulatory laws, rules, ordinances or requirements. All legal, technical, financial, etc. requirements in the following sections of this Manual must be met prior to interconnection of the DG facility to the Cooperative's system.

A Member may serve all load behind the meter at the location serving the DG facility but will not be allowed to serve multiple meters, multiple consuming facilities or multiple Members with a single DG facility or under a single DG application without prior approval by the cooperative.

DG facilities larger than 10 MW are not covered by this Manual and will be considered by the Cooperative on a case-by-case basis.

I. DETERMINE THE CATEGORY OF DISTRIBUTED GENERATION FACILITY

1) <u>Connection Level Category</u>

- a) Connected to the Cooperative's system The Member requests and/or the Member's DG facility requires connection to the Cooperative's system. All provisions of this manual cover this category.
- b) Connected to the Cooperative's Power Supplier's system The Member requests and/or the Member's DG facility requires connection to the Cooperative's Power Supplier's system. This manual does NOT cover this category. The Member should contact the Cooperative's Power Supplier directly as follows: <u>Contact the</u> <u>Cooperative for the current contact information of the Power Supplier.</u>
- 2) <u>Power Export Category</u>
 - a) Parallel no power export The Member operates a DG facility connected <u>in any way</u> to the Cooperative system but with no intention to export power.
 - b) Parallel power generated to be both consumed and exported The Member operates a DG facility connected <u>in any way</u> to the Cooperative's system designed primarily to serve the Member's own load but with the intention to export excess power.
 - c) Parallel power generated to be exported only The Member operates a DG facility connected <u>in any way</u> to the Cooperative's system designed primarily with the intention to export power.

3) <u>Qualifying or Non-Qualifying Category</u>

- a) Qualifying Facilities (QF) are defined by the Public Utility Regulatory Policies Act of 1978 (PURPA). Refer to CFR Title 26, Volume 4, Sec. 292.204.
- b) The distinction between QF and Non-Qualifying Facilities (NQF) mainly deals with fuel use.
 - (1) <u>In general</u>, a QF must have as its primary energy source biomass, waste, renewable resources, geothermal resources or any combination. See PURPA for a full description.
 - (2) DG facilities not designated as QF under the provisions of PURPA will be considered NQF by the Cooperative.
- c) The Cooperative will provide interconnection for a DG facility to Members, subject to the provisions of this Manual and all other applicable rules and regulations.
- d) The Cooperative will purchase power from a Member with a DG facility that is a QF, subject to the provisions of this policy and other applicable rules and regulations.
- e) The Cooperative may purchase power from a Member with a DG facility that is an NQF.

4) Size Category

a) Facilities 50 kW and smaller

Facilities \leq 50 kW of connected generation will be placed in this size category unless the Member requests connection under the > 50 kW size category.

b) Facilities above 50 kW and below 10 MW

Facilities > 50 kW and below 10 MW of connected generation will be placed in this size category.

c) Facilities above 10 MW of connected generation Not considered under this manual

II. MEMBER'S INITIAL REQUIREMENTS

1) Notification

- a) The Member must meet all the Cooperative's membership and service requirements in addition to the requirements in the Manual.
- b) Anyone owning or operating a DG facility in parallel with the Cooperative's system must notify the Cooperative Engineering Department of the existence, location and category of the DG facility. An interconnect agreement must be approved and signed by the Cooperative and Member prior to connection.
- 2) Service Request
 - a) In advance of request for an interconnection, the Member must contact the Cooperative Engineering Department and complete the "Cooperative Agreement for Interconnection and Parallel Operation of Distributed Generation."
 - b) DG facilities under 5 kW in size and of standard manufacture and design (as so determined by the Cooperative) may submit the Agreement Short Form. All other facilities must submit the Agreement Long Form.
 - c) A separate form must be submitted for each facility.
- 3) Submit a DG Plan
 - a) As a part of the application, the Member shall submit a plan detailing the electrical design, interconnection requirements, size, and operational plans for the DG facility (the "DG plan"). Either at the time of submission or at any time during the review process, the Cooperative may require additional information or may require the DG plan to be prepared by a Professional Engineer registered in the state of Texas.
 - b) In the case of DG facilities (i) to be operated in parallel with the Cooperative's system,
 (ii) with no intention to export power to the Cooperative and (iii) that are of standard design and intended entirely as emergency or back-up power supply for the facility, the Cooperative may, at its sole discretion, waive the application fee.
 - c) Prior to review of the application and DG plan by the Cooperative, the Member shall pay an application fee as indicated below. A separate fee must be submitted for each DG facility.

DG Size (Connected Load)	Application Fee & Inspection Fee	Additional Engineering Fee	
< 5 kW	\$_ <u>250</u> _	None	
5 kW to 50 kW	\$_ <u>250</u> _	\$750	
51 kW to 1 MW	\$_ <u>700</u> _	\$1,000	
Over 1 MW to 10 MW	\$_ <u>1,200</u> _	\$2,000 minimum	
> 10 MW	Not covered by this manual		

III. COOPERATIVE AND POWER SUPPLIER REVIEW PROCESS

1) Plan Review Process

- a) The Cooperative and its Power Supplier, if requested by the Cooperative, will review the application and accompanying documents, plans, specifications, and other information provided and will return an interconnection analysis to the Member within 60 days of receipt of final plans and specifications.
- b) Technical review will be consistent with guidelines established by the most recent *IEEE Standard 1547 Guide for Distributed Generation Interconnection.* The Member may be required by the Cooperative to provide proof that their DG Facilities have been tested and certified by applicable IEEE guidelines.
- c) If corrections or changes to the plans, specifications and other information are to be made by the Member, the 60 day period may be reinitialized when such changes or corrections are provided to the Cooperative. In addition, any changes to the site or project requiring new analysis by the Cooperative may require additional cost and a new DG plan. The cost will be determined by the Cooperative and shall be paid by the Member.
- d) The Member acknowledges and agrees that any review or acceptance of such plans, specifications and other information by the Cooperative and/or its Power Supplier shall not impose any liability on the Cooperative and/or its Power Supplier and does not guarantee the adequacy of the Member's equipment or DG facility to perform its intended function. The Cooperative and its Power Supplier disclaim any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, cost-effectiveness, safety, durability, or reliability of such DG installations.
- e) In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative and/or its Power Supplier to modify electric delivery systems in order to serve the Member's DG facilities and/or purchase or continue to purchase the output of the Member's DG facilities, or because the quality of the power provided by the Member's DG adversely affects the Cooperative's and/or its Power Supplier's delivery system, the Member will be responsible to pay the Cooperative and/or its Power Supplier in advance for all costs of modifications required for the interconnection of the Member's DG facilities.

IV. SALES TO AND PURCHASES FROM A DG FACILITY

- 1) For all DG where the Member desires to export power
 - a) All DG facilities shall be billed under one of the Cooperative's existing rate tariffs.
 - b) All sales of electric power and energy by the Cooperative to a Member shall be consistent with the applicable retail rate schedule established by the Cooperative as if there were no DG installation at the Member's premises, including any charges in the Cooperative's DG tariff rider.
 - c) The Member shall pay all rates and charges so listed.
 - d) Neither the Cooperative nor its Power Supplier is under any obligation to purchase power from a NQF.
 - e) If the Cooperative is obligated to provide wheeling service and the Cooperative has in place a tariff for wheeling service, a DG Member requesting such wheeling service shall pay the

Cooperative for wheeling service as provided in the Cooperative's tariffs. Otherwise, wheeling service will not be provided.

f) The Customer shall be subject to any market charges related to the Customer's DG facility, including but not limited to Scheduling, Dispatching and Energy imbalance.

2) For QF \leq 50 kW where the Member desires to export power:

- a) No net metering shall be used. The type of metering to be used shall be specified at the sole discretion of the Cooperative. Determination of billing shall be accomplished by interconnection through a multi-channel meter or two meters with one measuring all energy supplied by the Cooperative and the other measuring all energy supplied by the Customer to the Cooperative.
- b) For power produced in excess of on-site requirements, the Customer shall be credited by SBEC for KWH that flowed to the SBEC power grid at the avoided cost of the purchased power. Avoided Cost is calculated and shown on the customer's bill or invoice and listed as the G & T (Generation and Transmission) Charges on their specific rate.
- c) The Cooperative shall bill the Customer for the energy supplied by the Cooperative to the Customer according to the Cooperative's applicable retail rate schedule, plus the DG Customer charge, and less any credit for the energy supplied by the Customer to the Cooperative during each billing period.
- d) When the energy credit supplied by the Customer exceeds the energy charges supplied by the Cooperative, including all monthly customer charges and monthly DG Customer charge, the excess energy credit shall be carried over to the following monthly billing period. In the event the Customer generates more revenue credits than the Customer consumes for 12 consecutive months, the excess credit will be paid annually unless other contractual arrangements dictate.
- e) The Customer shall sign an approved contract for interconnection service with the Cooperative.
- f) In addition to all other charges, the Cooperative may bill the Customer for any additional facilities charges as determined by the Cooperative and appended to the Interconnection Agreement.
- g) The Cooperative may, at its sole discretion, purchase power from an NQF as described in this section.

3) For QF > 50 kW and < 10 MW where the Member desires to export power:

- a) No net metering shall be used. The type of metering to be used shall be specified at the sole discretion of the Cooperative. The metering shall provide data so the Cooperative can determine each billing period the energy supplied to the Member by the Cooperative and the energy supplied to the Cooperative by the Member. Determination of billing shall be accomplished by interconnection through a multi-channel meter or two meters with one measuring all energy supplied by the Cooperative.
- b) At the sole discretion of the Cooperative, an approved load profile meter may be required which can be remotely read by the Cooperative through an approved communications link. Otherwise, the meter shall be read monthly by Cooperative personnel and the Member shall be billed for the additional cost of reading the meter.
- c) The Cooperative shall bill the Customer for the full energy used by the Member during each billing period according to the Cooperative's applicable retail rate schedule.
- d) In addition to all other charges, the Cooperative may add an additional monthly customer charge for Customers with DG facilities to recover any additional billing, meter reading and/or customer service costs.

- e) The Cooperative shall credit the Customer on a monthly basis for the energy supplied by the Member to the Cooperative. The Customer shall be credited for energy supplied by the Customer at the Cooperative's avoided wholesale power cost on generation up to 2 MW. Generation above 2 MW may need to contract with the Cooperative and the Cooperative's power supplier for the sale of the excess energy. In the event the Customer generates more revenue credits than the Customer consumes for 12 consecutive months, the excess credit will be paid annually unless other contractual arrangements dictate.
- f) The Customer shall sign an approved Agreement for Interconnection of Distributed Generation with the Cooperative.
- g) In addition to all other charges, the Cooperative may bill the Customer for any additional facilities charges as determined by the Cooperative and appended to the Interconnection Agreement. The Customer shall be responsible for the cost of new SBEC facilities and facility upgrades in order to transport the energy produced.
- h) The Cooperative may, at its sole discretion, purchase power from a NQF as described in this section.
- 4) The Cooperative shall not be required to make any purchases that will cause the Cooperative to no longer be in compliance with any applicable contracts or all-power contract requirements with its power supplier(s).

V. MEMBER'S RESPONSIBILITY PRIOR TO OPERATION

- 1) Line Extension and Modifications to Cooperative Facilities
 - a) As a part of the interconnection analysis performed by the Cooperative, the Member will be provided with an estimate of any line extension or other cost to be incurred in providing electric delivery service to the Member's DG facility.
 - b) Notwithstanding the Cooperative's line extension policy, the Member shall pay in advance the full cost of the construction of any transmission, substation, distribution, transformation, metering, protective, or other facilities or equipment which, at the sole discretion of the Cooperative and/or its Power supplier, is required to serve the Member's DG facility.
 - c) In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative and/or its Power Supplier to modify electric delivery systems in order to serve the Member's DG facilities and/or purchase or continue to purchase the Member's output, or because the quality of the power provided by the Member's DG adversely affects the Cooperative and/or its Power Supplier's delivery system, the Member shall Pay the Cooperative and/or its Power Supplier for all costs of modifications required for the interconnection of the Member's DG facilities.
 - d) In the event the Cooperative at any time in the future changes primary voltage of facilities serving the DG facility such that metering equipment, transformers and/or any other Member-owned equipment must be changed to continue receiving service at the new primary voltage level, the full cost of the change will be borne by the Member.
 - e) In all cases, the Member shall pay the full cost of the installation of a visible load break disconnect switch by and to the sole specification of the Cooperative. The switch will be readily accessible to Cooperative personnel and of a type that can be secured in an open position by a Cooperative lock.
- 2) Applicable Regulations

The DG facility shall be installed and operated subject to and in accordance with the terms and conditions set forth in the Cooperative's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the Cooperative's board of directors, which are incorporated herein by reference, and in compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, the most recent IEEE Standard 1547 Guide for Distributed Generation Interconnection, applicable ANSI standards, including ANSI C84.1 Range A, Electric Reliability Council of Texas (ERCOT) Independent System Operator (ISO) directives and ERCOT guidelines, and in accordance with industry standard prudent engineering practices.

3) Liability Insurance

- a) Facilities 50 kW and smaller
 - (1) A Member's facility may be interconnected without any proof of liability insurance for renewable distributed generation that meet the IEEE 1547 standard, National Electric Code (NEC), and any other code that may apply. It is strongly recommended to purchase a liability insurance policy to protect yourself. If the facility meets the necessary standards no proof of liability insurance will be required for qualifying distributed generation units of 50 KW and Smaller.
 - (2) Units that do not meet the IEEE 1547, NEC, and other codes shall not be interconnected.
- b) Facilities larger than 50 kW
 - (1) Prior to interconnection, the Member must provide a certificate of insurance showing satisfactory liability insurance including contractual liability insurance covering indemnity agreements which insures the Member against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation and maintenance of the Member's generating equipment.
 - (2) The amount of such insurance coverage shall be not less than \$3,000,000 per occurrence. The amount of such coverage and the type of insurance coverage required shall be acceptable to the Cooperative and may be amended from time to time by the Cooperative at the sole discretion of the Cooperative. The insurance policy must include specific liability associated with a solar, wind, or other distributed generation on the premises. The Cooperative shall be listed as additional insured on the Member's Policy and shall have the right to review the policies in order to confirm coverage without any exclusions.
 - (3) The certificate shall provide that the insurance policy will not be changed or canceled during its term without thirty days written notice to the Cooperative. The term of the insurance shall be coincident with the term of the interconnection contract or shall be specified to renew throughout the length of the interconnection contract.
 - (4) The Member shall provide proof of such insurance to the Cooperative prior to interconnection and annually thereafter.

4) Contracts

a) Interconnection Contract

The Member will sign and deliver an Agreement for Interconnection to the Cooperative substantially in the form as shown in the COOPERATIVE AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION included in this Manual.

- b) Purchase Power Contract (where the Member with a QF desires to deliver power or, in the case of a Member with a NQF, the Cooperative agrees to purchase power)
 - (1) \leq 50 kW: As outlined in the Cooperative's tariffs
 - (2) > 50 kW and < 10 MW: As outlined in the Cooperative's tariffs.
 - (3) > 10 MW: Not covered in this Manual.

5) Initial Interconnection

- a) Upon satisfactory completion of the review process and execution of required agreements as outlined in this Manual, the Cooperative will begin installation of the interconnection of DG facilities. The interconnection will be completed as soon as practical after completion of the review process and execution of the necessary agreements/contracts. After completion of interconnection requirements and prior to initiation of service, the Cooperative will conduct a final inspection of the facilities and interconnection to the Cooperative's system. Upon satisfactory final inspection, the Cooperative will initiate service to the Member.
- b) The Cooperative's review process and final inspection is intended as a means to safeguard the Cooperative's facilities and personnel. The Member acknowledges and agrees that any review or acceptance of such plans, specifications and other information by the Cooperative and/or its Power Supplier shall not impose any liability on the Cooperative and/or its Power Supplier and does not guarantee the adequacy of the Member's equipment or DG facility to perform its intended function. The Cooperative and its Power Supplier disclaims any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, cost-effectiveness, safety, durability, or reliability of such DG installations.

VI. REFUSAL TO INTERCONNECT SERVICE OR DISCONNECTION OF INTERCONNECTION SERVICE

The Cooperative may, at its sole discretion, prevent the interconnection or disconnect the interconnection of DG facilities due to reasons such as safety concerns, reliability issues, power quality issues, breach of interconnection contract or any other reasonable issue. Any disconnection may be without prior notice.

VII. OPERATION OF PARALLEL FACILITY

The purpose of this section is to outline the Cooperative's operational requirements for DG facilities operated in parallel with the Cooperative's system and is not intended to be a complete listing of all operational, regulatory, safety and other requirements.

1) Ownership of facilities

- a) The Member shall own and be solely responsible for all expense, installation, maintenance and operation of all facilities, including all power generating facilities, at and beyond the point of delivery as defined in the Cooperative's tariffs.
- b) At its sole discretion, the Cooperative may locate cooperative owned metering equipment and transformers past the point of delivery.

2) <u>Self-Protection of DG Facilities</u>

- a) The Member will furnish, install, operate and maintain in good order and repair all equipment necessary for the safe operation of DG facilities operated in parallel with the Cooperative system.
- b) The Member's equipment will have capability to both establish and maintain synchronism with the Cooperative system and to automatically disconnect and isolate the DG facility from the Cooperative system.
- c) The Member's DG facility will be designed, installed and maintained to be self-protected from normal and abnormal conditions on the Cooperative system including, but not limited to, overvoltage, under-voltage, overcurrent, frequency deviation, and faults. Self-protection will be compatible with all applicable Cooperative protection arrangements and operating policies.
- d) Additional protective devices and/or functions may be required by the Cooperative when, in the sole judgment of the Cooperative, the particular DG facility installation and/or the Cooperative system characteristics so warrant.
- 3) Quality of service
 - a) The Member's DG facility will generate power at the nominal voltage of the Cooperative's system at the Member's delivery point as defined by ANSI C84.1 Range A.
 - b) Member's DG installation will generate power at a frequency within the tolerances as defined by IEEE 1547.
 - c) Member's DG facility shall produce power at a minimum power factor of at least 97% or shall use power factor correction capacitors to ensure at least a 97% power factor.
 - d) Member's DG facility shall be in accordance with the power quality limits specified in IEEE 519.
 - e) The overall quality of the power provided by the Member's DG facility including, but not limited to, the effects of harmonic distortion, voltage regulation, voltage flicker, switching surges and power factor, will be such that the Cooperative system is not adversely affected in any manner.
 - f) In the event that the adverse effects are caused in whole or in part by the Member's DG facility, the Member will correct the cause of such effects within 30 days, reimburse the Cooperative for required correction, or be disconnected from the Cooperative system.

4) Safety disconnect

- a) The Member shall install a visible load break disconnect switch at the Member's expense and to the Cooperative's specifications.
- b) The switch will be located so as to be readily accessible to Cooperative personnel in a location acceptable to both the Member and Cooperative.

- c) The switch shall be a type that can be secured in an open position by a lock owned by the Cooperative. If the Cooperative has locked the disconnect switch open, the Member shall not operate or close the disconnect switch.
- d) The Cooperative shall have the right to lock the switch open when, in the judgment of the Cooperative:
 - (1) It is necessary to maintain safe electrical operating and/or maintenance conditions,
 - (2) The Member's DG adversely affects the Cooperative system, or
 - (3) There is a system emergency or other abnormal operating condition warranting disconnection.
- e) The Cooperative reserves the right to operate the disconnect switch for the protection of the Cooperative system even if it affects the Member's DG facility. In the event the Cooperative opens and/or closes the disconnect switch:
 - (1) The Cooperative shall not be responsible for energization or restoration of parallel operation of the DG facility.
 - (2) The Cooperative will make reasonable efforts to notify the Member.
- f) The Member will not bypass the disconnect switch at any time for any reason.
- g) Signage shall be placed by the Cooperative at the Member's expense and located at the disconnect indicating the purpose of the switch along with contact names and numbers of both the Member and the Cooperative.
- h) Members with DG facilities as defined in this Manual which are solely for the purpose of emergency backup or peak shaving without intent to export power shall not operate their DG facilities at any time unless visibly disconnected from the Cooperative system. At its sole discretion, the Cooperative may require Member to install at his/her own expense an interlocking switch for the purpose of insuring the Member's facilities do not operate in parallel with the Cooperative's facilities.
- i) Should the Cooperative lose power serving the Member's DG facilities for any reason, Members with DG facilities shall not operate their DG facilities unless visibly disconnected from the Cooperative system.

5) <u>Access</u>

- a) Persons authorized by the Cooperative will have the right to enter the Member's property for purposes of testing, operating the disconnect switch, reading or testing the metering equipment, maintaining right-of-way or other DG facility equipment and/or Cooperative service requirement. Such entry onto the Member's property may be without notice.
- b) If the Member erects or maintains locked gates or other barriers, the Member will furnish the Cooperative with convenient means to circumvent the barrier for full access for the above-mentioned reasons. The Member is required to allow a Cooperative pad-lock on all locked gates for access.

6) Liability for Injury and Damages

(a) The Member assumes full responsibility for electric energy furnished at and past the point of interconnection and shall indemnify the Cooperative and/or its Power Supplier against and hold the Cooperative and/or its Power Supplier harmless from all claims for both injuries to persons, including death resulting therefrom, and damages to property occurring upon the premises owned or operated by Member arising from electric power and energy delivered by the Cooperative or in any way arising directly or indirectly from the Member's DG facility.

- (b) The Cooperative and/or its Power Supplier shall not be liable for either direct or consequential damages resulting from failures, interruptions, or voltage and waveform fluctuations occasioned by causes reasonably beyond the control of the Cooperative and/or its Power Supplier including, but not limited to, acts of God or public enemy, sabotage and/or vandalism, accidents, fire, explosion, labor troubles, strikes, order of any court or judge granted in any bona fide adverse legal proceeding or action, or any order of any commission, tribunal or governmental authority having jurisdiction. ALL PROVISIONS NOTWITHSTANDING, IN NO EVENT SHALL THE COOPERATIVE BE LIABLE TO THE MEMBER FOR ANY INTEREST, LOSS OF ANTICIPATED REVENUE, EARNINGS, PROFITS, OR INCREASED ESPENSE OF OPERATIONS, LOSS BY REASON OF SHUTDOWN OR NON-OPERATION OF MEMBER'S PREMISES OR FACILITIES FOR ANY INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED, IN WHOLE OR PART, TO THIS AGREEMENT. The Cooperative shall not be liable in any event for consequential damages.
- (c) The Member is solely responsible for insuring his/her facility complies with all applicable regulations including, but not limited to, laws, regulations, ordinances, Cooperative and Cooperative Power Supplier tariffs, policies and directives, and ERCOT rules, policies and directives.
- 7) <u>Metering/Monitoring</u>
 - a) The Cooperative shall specify, install and own all metering equipment at the point of interconnection.
 - b) Facilities ≤ 50 kW The facility will be metered by the following methods, at the sole discretion of the Cooperative.
 - (1) Determination of billing shall be accomplished by interconnection through a multichannel meter or two meters with one measuring all energy supplied by the Cooperative and the other measuring all energy supplied by the Customer to the Cooperative.
 - (2) There shall be no net metering.
 - c) Facilities > 50 kW
 - (1) Power transfer at the point of interconnection will be measured by metering equipment as installed and specified at the sole discretion of the Cooperative. Determination of billing shall be accomplished by interconnection through a multichannel meter or two meters with one measuring all energy supplied by the Cooperative and the other measuring all energy supplied by the Customer to the Cooperative.
 - (2) There shall be no net metering.
 - d) The meter shall be read at a time or times of month determined at the Cooperative's sole discretion for acquiring metering data. The Member shall provide the Cooperative an approved communications link at the Member's cost for this purpose if so requested by the Cooperative. The type of communications link and metering equipment measuring

purchase of power by the Cooperative shall be installed and specified at the sole discretion of the Cooperative.

- e) The Cooperative may, at its sole discretion, require the Member to pay the Cooperative in advance for metering and monitoring equipment and installation expense.
- f) Meter testing shall follow the Cooperative's standard policy on metering testing and accuracy.
- g) At its sole discretion, the Cooperative may meter the facility at primary or secondary level.

8) Notice of Change in Installation

- a) The Member will notify the Cooperative in writing thirty (30) days in advance of making any change affecting the characteristics, performance, or protection of the DG facility.
- b) If any modification undertaken by the Member will create or has created conditions which may be unsafe or adversely affect the Cooperative system, the Member shall immediately correct such conditions or be subject to immediate disconnection from the Cooperative system.
- c) Any change in the operating characteristics of the DG facility including, but not limited to, size of generator, total facility capacity, nature of facility, fuel source, site change, hours of operation, or type used, may require a new application process, including, but not limited to, application form, application fee, DG plan and DG plan review by the Cooperative.

9) Testing and Record Keeping

- a) The Member will test all aspects of the protection systems up to and including tripping of the generator and interconnection point at start-up and thereafter as required. Testing will verify all protective set points and relay/breaker trip timing and shall include procedures to functionally test all protective elements of the system. The Cooperative may witness the testing.
- b) The Member will maintain records of all maintenance activities, which the Cooperative may review at reasonable times.
- c) For systems greater than 500 kW, a log of generator operations shall be kept. At a minimum, the log shall include the date, generator time on, generator time off, and megawatt and megavar output. The Cooperative may review such logs at reasonable times.

10) Disconnection of Service

The Cooperative may, at its sole discretion, discontinue the interconnection of DG installations due to reasons such as safety concerns, reliability issues, power quality issues, breach of interconnection contract or any other reasonable issue.

11) Compliance With Laws, Rules and Tariffs

The DG installation owned and installed by the Member shall be installed and operated subject to and in accordance with the terms and conditions set forth in the Cooperative's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the Cooperative's board of directors, which are incorporated herein by reference, and in compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, Electric Reliability Council of Texas (ERCOT) Independent System Operator (ISO) directives and ERCOT guidelines, and in accordance with industry standard prudent engineering practices.

SAN BERNARD ELECTRIC COOPERATIVE, INC. AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

CONTRACT

referred to individually as "Party" or both referred to collectively as the "Parties." In consideration of the mutual covenants set forth herein, the Parties agree as follows:

 Scope of Agreement -- This Agreement is applicable to conditions under which the Cooperative and the DG Owner/Operator agree that one or more generating facilities (described in Exhibit A) owned by the DG Owner/Operator of ______ kW or less, to be interconnected at _____kV or less ("Facilities") may be interconnected to the Cooperative's electric power distribution system ("System").

The provisions of the Cooperative's Distributed Generation Manual shall be considered to be a part of this contract.

- 2. Establishment of Point of Interconnection The point where the electric energy first leaves the wires or facilities owned by the Cooperative and enters the wires or facilities provided by DG Owner/Operator is the "Point of Interconnection." Cooperative and DG Owner/Operator agree to interconnect the Facilities at the Point of Interconnection in accordance with the Cooperative's Rules and Regulations and DG Manual relating to interconnection of Distributed Generation (the "Rules") and as described in the attached Exhibit A. The interconnection equipment installed by the customer ("Interconnection Facilities") shall be in accordance with the Rules as well.
- 3. Responsibilities of Cooperative and DG Owner/Operator for Installation, Operation and Maintenance of Facilities DG Owner/Operator will, at its own cost and expense, operate, maintain, repair, and inspect, and shall be fully responsible for, its Facilities, unless otherwise specified on Exhibit A. DG Owner/Operator shall conduct operations of its Facilities in compliance with all aspects of the Rules, and Cooperative shall conduct operations of its electric distribution facilities in compliance with all aspects of the Rules, and Cooperative shall conduct operations of its electric distribution facilities in compliance with all aspects of the Rules, or as further described and mutually agreed to in the applicable Facilities Schedule. Maintenance of Interconnection Facilities shall be performed in accordance with the applicable manufacturers' recommended maintenance schedule. The DG Owner/Operator agrees to cause its Interconnection Facilities to be constructed in accordance with specifications equal to or better than those provided by the National Electrical Safety Code and the National Electrical Code, both codes approved by the American National Standards Institute, in effect at the time of construction.

The DG Owner/Operator covenants and agrees to cause the design, installation, maintenance, and operation of, its Interconnection Facilities so as to reasonably minimize the likelihood of a malfunction or other disturbance, damaging or otherwise affecting or impairing the System. DG Owner/Operator shall comply with all applicable laws, regulations, zoning codes, building codes, safety rules and environmental restrictions applicable to the design, installation and operation of its Facilities.

Cooperative will notify DG Owner/Operator if there is evidence that the Facilities' operation causes disruption or deterioration of service to other customer(s) served from the System or if the Facilities' operation causes damage to the System. DG Owner/Operator will notify the Cooperative of any emergency or hazardous condition or occurrence with the DG Owner/Operator's Facilities, which could affect safe operation of the System.

4. **Operator in Charge -** The Cooperative and the DG Owner/Operator shall each identify an individual (by name or title) who will perform as "Operator in Charge" of the facilities and their section of the Interconnection Facilities. This individual must be familiar with this Agreement as well as provisions of other agreements and any regulations that may apply.

5. Limitation of Liability and Indemnification

- a. Notwithstanding any other provision in this Agreement, with respect to the Cooperative's provision of electric service to DG Owner/Operator and the services provided by the Cooperative pursuant to this Agreement, Cooperative's liability to DG Owner/Operator shall be limited as set forth in the Cooperative's tariffs and terms and conditions for electric service, which are incorporated herein by reference.
- b. Neither Cooperative nor DG Owner/Operator shall be liable to the other for damages for any act or omission that is beyond such party's control, including, but not limited to, any event that is a result of an act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, explosion, breakage or accident to any part of the System or to any other machinery or equipment, a curtailment, law, order, or regulation or restriction by governmental, military, or lawfully established civilian authorities.
- c. Notwithstanding Paragraph 5.b of this Agreement, the DG Owner/Operator shall assume all liability for, and shall indemnify Cooperative for, any claims, losses, costs, and expenses of any kind or character to the extent that they result from DG Owner/Operator's negligence or other wrongful conduct in connection with the design, construction or operation of the Facilities or Interconnection Facilities. Such indemnity shall include, but is not limited to, financial responsibility for (a) monetary losses; (b) reasonable costs and expenses of defending an action or claim; (c) damages related to death or injury; (d) damages to property; and (e) damages for the disruption of business. This paragraph does not create a liability on the part of the DG Owner/Operator to the Cooperative or a third person, but requires indemnification where such liability exists.
- d. Cooperative and DG Owner/Operator shall each be responsible for the safe installation, maintenance, repair and condition of their respective lines, wires, switches, or other equipment or property on their respective sides of the Point of Interconnection. The Cooperative, while retaining the right to inspect, does not assume any duty of inspecting the DG Owner/Operator's lines, wires, switches, or other equipment or property and will not be responsible therefore. DG Owner/Operator assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the Point of Interconnection.
- e. For the mutual protection of the DG Owner/Operator and the Cooperative, only with Cooperative prior written authorization are the connections between the Cooperative's service wires and the DG Owner/Operator's service entrance conductors to be energized.

- 6. **Design Reviews and Inspections -** The DG Owner/Operator shall provide to the Cooperative the following documentation and inspection results:
 - a. <u>One-Line Diagram.</u> The diagram shall include at a minimum, all major electrical equipment that is pertinent to understanding the normal and contingency operations of the DG Interconnection Facilities, including generators, switches, circuit breakers, fuses, protective relays and instrument transformers.
 - b. <u>Testing Records.</u> Testing of protection systems shall be limited to records of compliance with standard acceptance procedures and by industry standards and practices. These records shall include testing at the start of commercial operation and periodic testing thereafter.
- 7. Right of Access, Equipment Installation, Removal & Inspection The Cooperative may, upon notice by phone or email to the DG Owner/Operator, send an employee, agent or contractor to the premises of the DG Owner/Operator at any time whether before, during or after the time the Facilities first produces energy to inspect the Interconnection Facilities, and observe the Facility's installation, commissioning (including any testing), startup, and operation.

At all times Cooperative shall have access to DG Owner/Operator's premises for any reasonable purpose in connection with the interconnection described in this Agreement, the Rules, or to provide service to its customers.

- 8. **Confidentiality of Information -** Unless compelled to disclose by judicial or administrative process, or by other provisions of law or as otherwise provided for in this Agreement, the DG Owner/Operator and the Cooperative will hold in confidence any and all documents and information furnished by the other party in connection with this Agreement.
- 9. **Prudent Operation and Maintenance Requirements -** The DG Owner/Operator shall operate and maintain its generation and interconnection facilities in accordance with industry standard prudent electrical practices. The said standards shall be those in effect at the time a DG Owner/Operator executes an interconnection agreement with the Cooperative.
- 10. Disconnection of Unit DG Owner/Operator retains the option to disconnect its Facilities from the System, provided that DG Owner/Operator notifies the Cooperative of its intent to disconnect by giving the Cooperative at least thirty (30) days' prior written notice. Such disconnection shall not be a termination of the agreement unless DG Owner/Operator exercises rights under Section 13.

DG Owner/Operator shall disconnect Facilities from the System upon the effective date of any termination under Section 13.

Subject to the Rules, for routine maintenance and repairs on the System, Cooperative shall provide DG Owner/Operator with seven (7) business days' notice of service interruption.

Cooperative shall have the right to suspend service in cases where continuance of service to DG Owner/Operator will endanger persons or property. During the forced outage of the System serving DG Owner/Operator, Cooperative shall have the right to suspend service to effect repairs on the System, but the Cooperative shall use its efforts to provide the DG Owner/Operator with reasonable prior notice.

11. Metering - Metering shall be accomplished as described in the Cooperative's DG Manual.

- 12. **Insurance –** Insurance shall be required as described in the Cooperative's DG Manual.
- 13. 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) DG Owner/Operator may terminate this Agreement at any time by giving the Cooperative sixty days' written notice; (b) Cooperative may terminate upon failure by the DG Owner/Operator to generate energy from the Facilities in parallel 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, tariff, 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 DG Owner/Operator at least sixty (60) days notice in the event that there is a material change in an applicable law, or any requirement of the Cooperative's wholesale electric suppliers or any transmission utility, independent system operator or regional transmission organization having responsibility for the operation of any part of the System.
- 14. **Dispute Resolution -** Each party agrees to attempt to resolve any and all disputes arising hereunder promptly, equitably and in good faith. If a dispute arises under this Agreement that cannot be resolved by the parties within forty-five (45) working days after written notice of the dispute, the parties agree to submit the dispute to mediation by a mutually acceptable mediator. The parties agree to participate in good faith in the mediation for thirty (30) days. If the parties are unsuccessful in resolving their dispute through mediation, then the parties shall submit to arbitration pursuant to the Commercial Arbitration Rules of the American Arbitration Association. The venue of such mediation and arbitration shall be in Austin County.
- 15. **Compliance with Laws, Rules and Tariffs** Both the Cooperative and the DG Owner/Operator shall be responsible for complying with all applicable laws, rules and regulations, including but not limited to the laws of the state of Texas, and the Cooperative's DG Manual, Tariffs, Rules and Regulations, By-Laws and other governing documents. The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the tariff schedules and rules of the Cooperative as applicable to the electric service provided by the Cooperative, which tariffs and rules are hereby incorporated into this Agreement by this reference. The Cooperative shall have the right to publish changes in rates, classification, service or rule, with the proper notification to all DG owners/operators and Cooperative members.
- 16. **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.
- 17. 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.
- 18. Entirety of Agreement and Prior Agreements Superseded This Agreement, including the Rules and all 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 the DG Owner/Operator application, or other written information provided by the DG Owner/Operator in compliance with the Rules. It is expressly acknowledged that the Parties may have other agreements covering other services not expressly provided for herein, which agreements are unaffected by this Agreement.

- 19. Force Majeure -For the purposes of this Agreement, a Force Majeure event is any event:
 - (a) that is beyond the reasonable control of the affected party; and (b) that the affected party is unable to prevent or provide against by exercising reasonable diligence, including the following events or circumstances, but only to the extent that they satisfy the preceding requirements: acts of war, public disorder, rebellion or insurrection; floods, hurricanes, earthquakes, lighting, 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, 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.
- 20. Assignment At any time during the term of this Agreement, the DG Owner/Operator may assign this Agreement to a corporation, an entity with limited liability or to one or more individuals (the "Assignee"), provided that the DG Owner/Operator obtains the consent of the Cooperative in advance of the assignment. The Cooperative's consent will be based on a determination that the Assignee is financially and technically capable to assume ownership and/or operation of the DG unit. The company or individual to which this Agreement is assigned will be responsible for the proper operation and maintenance of the unit, and will be a party to all provisions of this Agreement.
- 21. **Permits, Fees and Approvals -** The Cooperative will have responsibility for the review, approval or rejection of the DG interconnection application. The approval process is intended to ensure that the implementation of the applicant's DG project will not adversely affect the safe and reliable operation of the Cooperative's System. The fees associated with the Application are listed in the most current fee schedule issued by the Cooperative. All fees are to be submitted in the form of a Bank Cashier's check along with the Application, unless other payment terms have been approved in advance by the Cooperative.
- 22. **Notices -** Notices given under this Agreement are deemed to have been duly delivered if hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, to:

(a) If to Cooperative:

San Bernard Electric Cooperative. Inc.

P.O. Box 1208, 309 West Main Street

Bellville. Texas 77418

(b) If to DG Owner/Operator:

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other, notwithstanding Section 17.

- 23. **Invoicing and Payment -** Invoicing and payment terms for services associated with this Agreement shall be consistent with applicable Rules of the Cooperative.
- 24. Limitations (No Third-Party Beneficiaries, Waiver, etc.) 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. This Agreement may not be assigned by the DG Owner/Operator without the prior written consent of the Cooperative as specified in Section 20. The failure of a Party to this Agreement 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 imposed upon the Parties.
- 25. **Headings** The descriptive headings of the various articles and 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.
- 26. **Multiple Counterparts -** This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

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

San Bernard Electric Cooperative, Inc.	[DG OWNER/OPERATOR NAME]			
BY:	BY:			
TITLE:	TITLE:			
DATE:	DATE:			

EXHIBIT A DESCRIPTION OF FACILITIES AND POINT OF INTERCONNECTION

DG Owner/Operator will, at its 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.

[The following information is to be specified for each Point of Interconnection, if applicable]

- 1. <u>Name:</u>
- 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 DG Owner/Operator:
- 9. Cost Responsibility:
- 10. Control area interchange point (check one): /_____Yes /____No
- 11. Supplemental terms and conditions attached (check one): /_____Yes /____No
- 12. Cooperative rules for DG interconnection attached (check one): /_____Yes /____No

San Bernard Electric Cooperative, Inc.	[DG OWNER/OPERATOR NAME]
BY:	BY:
TITLE:	TITLE:
DATE:	DATE:

SAN BERNARD ELECTRIC COOPERATIVE, INC.

Application for Operation of Customer-Owned Generation

This application should be completed as soon as possible and returned to the Cooperative Customer Service representative in order to begin processing the request. See *Distributed Generation Procedures and Guidelines Manual for Members* for additional information.

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

PART 1 OWNER/APPLICANT INFORMATION

Company:				
Mailing Address:				
	County:		Zip	Code:
Phone Number:	Repres	sentative:		
PROJECT DESIGN/E	NGINEERING (as appl	icable)		
Company:				
Mailing Address:				
City:	County:	State:	Zip	Code:
Phone Number:	Repres	sentative:		
ELECTRICAL CONTR	ACTOR (as applicable))		
Company:				
Mailing Address:				
City:	County:	State:	Zip	Code:
Phone Number:	Repres	sentative:		
TYPE OF GENERATO	DR (as applicable)			
Photovoltaic	Wind	Microtu	bine	
Diesel Engine	Gas Engine	Turbine	Other	
ESTIMATED LOAD IN	FORMATION			
The following information interconnection. This inforpurposes.	will be used to help prope rmation is not intended as	erly design the C a commitment	Cooperative customer or contract for billing	

Total Site Load _____(kW) Total DG Output _____(kW)

Mode of Operation (check all that apply)

Isolated____

Paralleling _____ Power Export _____

DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION

Give a general description of the proposed installation, including when you plan to operate the generator.

PART2

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

SYNCHRONOUS GENERATOR DATA

Jnit Number: Total number of units with listed specifications on site:					
Manufacturer:			-		
Type:		Date of man	ufacture:		
Serial Number (eac Phases: Single	h):				
Phases: Single		R.P.M.:	F	-requency (Hz):	
Rated Output (for o	ne unit):	Kilowatt		Kilovolt-Amp	er
Rated Power Facto	r (%):	Rated Voltage	(Volts)	Rated Amp	peres:
Field Volts:					
Synchronous React	tance (X'd):		% on _		KVA base
Transient Reactanc	· · ·	-			KVA base
Subtransient React		_	% on _		KVA base
Negative Sequence					KVA base
Zero Sequence Rea					
Neutral Grounding	Resistor (if a	applicable):			-
$\overline{I_2^2 t}$ of K (heating tim	ne constant)	:			
Additional Informati	on:				

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 Cº):	
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 ma	anufacturer:	
H.P. Rates: H.P. Max.: Inertia	Constant:	_lbft ²
Energy Source (hydro, steam, wind, etc.)		
GENERATOR TRANSFORMER (Complete all a		
TRANSFORMER (between generator and utility		
Generator unit number:Date of man		
Manufacturer:		
Serial Number:		
High Voltage: KV, Connection: delta v	vye, Neutral solidly grounded?	
Low Voltage: KV, Connection: delta	wye, Neutral solidly grounded?	
Transformer Impedance (Z):% c	onk	KVA base
Transformer Resistance (R):% c	onk	KVA base
Transformer Reactance (X):% o		
Neutral Grounding Resistor (if applicable:		

INVERTER DATA (if applicable)

Manufacturer:			Model:		
Rate Power Factor	(%): R	ated Volta	age (Volts):	Rated Amp	eres:
Inverter Type (fe	rroresonant,	step,	pulse-width	modulation,	etc.):
Type commutation:	forced	line			
Harmonic Distortion:	Maximum S	Single Harr	nonic (%)		
	Maximum 1	otal Harm	onic (%)		

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

POWER CIRCUIT BREAKER (if applicable)

Manufacturer:	Manufacturer:Model:						
Rated Voltage (kil	ovolts):		R	lated am	npacity (Amperes)	
Interrupting rating	(Amperes):	BIL	Rating			
Interrupting mediu	m / insulat	ting mediu	um (ex. Vacu	um, gas,	, oil)	/	
Control Voltage (C	losing):	(Volts)	AC	DC			
Control Voltage (T	ripping):	(Volts) AC	DC	Battery	Charged Capa	citor
Close energy:	Spring	Motor	Hydraulic	Pneum	natic	Other:	
Trip energy:	Spring	Motor	Hydraulic	Pneum	natic	Other:	
Bushing Current T	ransforme	ers:_(Max.	ratio) Relay A	Accuracy	/ Class:		
Multi Ratio?	No	Yes: (ava	ailable taps)				

ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, 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.

SIGN OFF AREA

The customer agrees to provide the Cooperative with any additional information required to complete the interconnection. The customer shall operate his equipment within the guidelines set forth by the Cooperative.

Date

Printed name

SAN BERNARD ELECTRIC COOPERATIVE, INC. CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative contact:	_Nicholas Hesse	
Title:	Technical Serivce	
Address:	San Bernard Electric Cooperative, Inc.	
	_P.O. Box 1208	
	309 West Main Street	
	Bellville, Texas 77418	
Phone:	_(979)865-3171	
Fax:	_(979)865-9706	
Email	nhesse@sbec.org	

SBEC DG TARIFF (Approved by SBEC Board of Directors on November 20, 2018)

Distributed Generation Rider – Version 2.0

Application.

Applicable to Distributed Generation Facilities smaller than 10 MW of connected generation connected in parallel operation to the Cooperative's electric system in accordance with the Cooperative's service rules and regulations and the Cooperative's *Distributed Generation Procedures and Guidelines Manual for Members* (available on request).

This rate is not applicable to temporary, shared, or resale service. This rate is applicable to service supplied at one point of delivery.

Sales to Customer

Sales to a Distributed Generation Customer shall be consistent with the applicable retail rate tariff established by the Cooperative and in use by the Customer as if there were no Distributed Generation installation.

Purchases from a Customer – Facility classified as 50 kW of connected generation and smaller in order to offset their own usage.

Determination of billing shall be accomplished by interconnection through a multichannel meter or two meters with one measuring all energy supplied by the Cooperative and the other measuring all energy supplied by the Customer to the Cooperative.

For power produced in excess of on-site requirements, the Customer shall be credited by SBEC for KWH that flowed to the SBEC power grid equal to avoided cost of the purchased power. Avoided Cost is calculated and shown on the customer's bill or invoice and listed as the Generation Charges on their specific rate. Transmission cost will not be credited on Customer produced power.

The Cooperative shall bill the Customer for the energy supplied by the Cooperative to the Customer according to the Cooperative's applicable retail rate schedule, plus the DG Customer charge if any applies, and less any credit for the energy supplied by the Customer to the Cooperative during each billing period.

When the energy credit supplied by the Customer exceeds the energy charges supplied by the Cooperative including all monthly customer charges and the monthly metering charge, the excess energy credit shall be carried over to the following monthly billing period. In the event the Customer generates more revenue credits than the Customer consumes for 12 consecutive months, the excess credit will be paid annually unless other contractual arrangements dictate. Any power purchased by the Cooperative shall be paid at the same rate as the power purchased over 50 KW at the end of the 12 month period and settlement is required.

Customer must be a Qualifying Facility (QF) as defined by the Public Utility Regulatory Policies Act of 1978 (PURPA). If Customer is not a QF, the Cooperative may, at its sole discretion, purchase power from the Customer under the terms of this section.

<u>Purchases from a Customer – Facility classified as greater than 50 kW and less than 10</u> <u>MW of connected generation</u>

Determination of billing shall be accomplished by interconnection through a multichannel meter or two meters with one measuring all energy supplied by the Cooperative and the other measuring all energy supplied by the Customer.

The Customer's qualifying facility shall be credited for energy supplied by the Customer to the Cooperative at a rate that will be determined by the avg ATC forward market curve as of October of the previous year for the next calendar year based on SHUB delivered price on generation greater than 50 KW and less than 1 MW. Qualifying Generation Facilities of 1 MW and up to 10 MW will contract with the Cooperative for the same rate that will be determined by the avg ATC forward market curve as of October of the previous year for the next calendar year based on SHUB delivered price in the ERCOT market, make an acceptable counter offer, and/or sell to other ERCOT Market participant any excess energy subject to wheeling charges and loses. The customer will be responsible for any SBEC new facilities and facility upgrades and cost to transport the energy produced if any wheeling charges are applied. All Generation of 1 MW and above shall register with ERCOT and follow that interconnection process. In the event the Customer, who is trying to offset their own usage, generates more revenue credits than the Customer consumes for 12 consecutive months, the excess credit will be paid annually unless other contractual arrangements dictate.

Customer shall be responsible for all interconnect cost for facilities to take the Qualifying DG power including all studies involved to determine the necessary facilities. Customer shall also be responsible for any wheeling cost plus losses for facilities needed to transport the DG power back to a wholesale market or other site.

The Cooperative shall bill the Customer for the energy supplied by the Cooperative during each billing period according to the Cooperative's applicable retail rate schedule.

The Customer shall be subject to any market charges related to the Customer's DG facility, including but not limited to Scheduling, Dispatching and Energy imbalance. The Customer shall be responsible for following the ERCOT and SBEC/LCRA interconnect policy and procedures.

Customer must be a Qualifying Facility (QF) as defined by the Public Utility Regulatory Policies Act of 1978 (PURPA). If Customer is not a QF, the Cooperative may, at its sole discretion, purchase power from the Customer under the terms of this section.

The Cooperative shall not be required to make any purchases that will cause the Cooperative to no longer be in compliance with any applicable contracts or all-power contract requirements with its power supplier(s).

Monthly Rate.

Each billing period the Customer shall be obligated to pay the following charges in addition to all charges indicated on his/her base rate:

DG Customer Charge

50 kW and smaller	@	<pre>\$_0.00 per meter/month *</pre>
Over 50 kW and under 1 MW	@	<pre>\$_80.00 per meter/month *</pre>
From 1 MW and under 10 MW	@	<u>\$ 340.00</u> per meter/month *

Additional Charge for meter reading by Cooperative Personnel where remote metering is not feasible. @ \$_60.00 per meter/month

*Provided an automated remote read meter is able to read and send the meter readings into the office automatically otherwise there will be a manual meter reading charge.

Facilities Charge

As determined at the sole discretion of the Cooperative on a non-discriminatory case-by-case basis to recover any additional operation and maintenance expense by the Customer's facility.

Data Access – Communications Link

In addition to all other charges in the Customer's tariff and this rider, the Customer will provide the Cooperative at his/her own expense a communications link as approved at the sole discretion of the Cooperative for remotely obtaining meter readings at a time or times of the month as determined at the Cooperative's sole discretion if so requested by the Cooperative.

<u>Contracts</u>

An Interconnection Agreement and Contract between the Customer and the Cooperative shall be required in all cases.