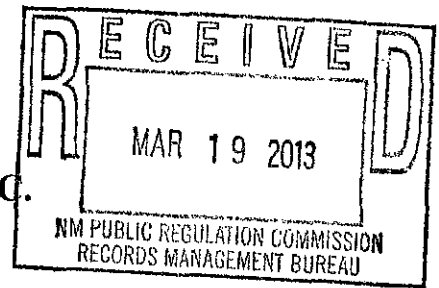


SOCORRO ELECTRIC COOPERATIVE, INC.  
First Revised FORM NO. 12  
CANCELLING ORIGINAL FORM NO. 12



**APPLICATION FOR INTERCONNECT BY A QUALIFYING FACILITY**  
**(GENERATING FACILITIES RATED CAPACITY UP TO AND**  
**INCLUDING 10 KW)**  
**(GENERATING FACILITIES RATED CAPACITY GREATER THAN 10**  
**KW)**

**APPLICATION FOR INTERCONNECT BY A QUALIFYING FACILITY**  
**(GENERATING FACILITIES RATED CAPACITY UP TO AND**  
**INCLUDING 10 KW)**  
**(GENERATING FACILITIES RATED CAPACITY GREATER THAN 10**  
**KW)**

(ATTACHED)

**EFFECTIVE**

APR 12 2013

ADVISE NOTICE NO. 67

A handwritten signature in black ink, appearing to read "Joseph M. Herrera".

JOSEPH M. HERRERA, General Manager

REPLACED BY NMPRC  
BY Operation of Law

**Socorro Electric Cooperative, Inc.**  
**NMPRC Rule 568 EXHIBIT 1B**  
**Standard Interconnection Application**  
**Generating Facilities with Rated Capacities Greater Than 10 kW**

A Customer-Generator applicant ("Applicant") hereby makes application to Socorro Electric Cooperative, Inc. (Utility) to install and operate a generating facility with rated capacity greater than 10 kW interconnected with the \_\_\_\_\_ utility system.

**Application Fee:**        \$100 for facilities from 10kw to 100 kW  
                                      \$100 plus \$1 per kW for facilities greater than 100 kW

As authorized by NMPRC Rule 17.9.568.12, if the above fees do not cover the total costs, a small utility may collect from the interconnection customer the reasonable costs incurred to obtain necessary expertise from consultants to review interconnection applications for generating facilities with rated capacities greater than 10 kW. A small utility shall provide a good faith estimate of the costs of such consultants to an interconnection customer within ten (10) business days of the date the interconnection application is delivered to the utility.

Written applications should be submitted by mail, e-mail or fax to Socorro Electric Cooperative, Inc., as follows:

Socorro Electric Cooperative, Inc.  
 215 E. Manzanaras Ave.  
 Socorro, NM 87801

Phone Number: 1-800-351-7575  
 E-Mail Address: mapping@socorroelectric.com  
 Contact Name: Mrs. Rauni Montoya

Fax Number: 575-835-4449  
 Title: GIS Technician

An application is a Complete Application when it provides all applicable information required below. (Additional information to evaluate a request for interconnection may be required and will be so requested from the Interconnection Applicant by Utility after the application is deemed complete).

**SECTION 1 - APPLICANT INFORMATION**

Legal Name of Interconnecting Applicant (or, if an Individual, Individual's Name)

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

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

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

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

GPS Location: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ Telephone (Evening): \_\_\_\_\_

Fax Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Socorro Electric Cooperative, Inc.  
 (Utility)

\_\_\_\_\_  
 (Existing Account Number, if generator to be interconnected on the Customer side of a utility revenue meter)

Type of Interconnect Service Applied for (choose one): \_\_\_\_\_ Network Resource \_\_\_\_\_ Energy Only  
 \_\_\_\_\_ Load Response (no export) \_\_\_\_\_ Net metering

**SECTION 2 - GENERATOR QUALIFICATIONS**

Data apply only to the Generating Facility, not the Interconnection Facilities.

Energy Source: Solar Wind Hydro Hydro Type (e.g. Run-of-River): \_\_\_\_\_  
Diesel Natural Gas Fuel Oil  
Other (state type) \_\_\_\_\_

Prime Mover: Fuel Cell Recip. Engine Gas Turbine Steam Turbine  
Microturbine PV Other \_\_\_\_\_

Type of Generator: Synchronous Induction Inverter

Generator Nameplate Rating: \_\_\_\_\_ kW (Typical) Generator Nameplate kVA: \_\_\_\_\_

Interconnection Customer or Customer-Site Load: \_\_\_\_\_ kW (if none, so state)

Typical Reactive Load (if known): \_\_\_\_\_

Maximum Physical Export Capability Requested: \_\_\_\_\_ kW

List components of the Generating Facility Equipment Package that are currently certified:

Equipment Type	Certifying Entity
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

Is the prime mover compatible with the certified protective relay package? \_\_\_ Yes \_\_\_ No

Generator (or solar collector)

Manufacturer \_\_\_\_\_ Model Name \_\_\_\_\_

Number: \_\_\_\_\_ Version Number: \_\_\_\_\_

Nameplate Output Power Rating in kW:

(Summer) \_\_\_\_\_ (Winter) \_\_\_\_\_

Nameplate Output Power Rating in kVA:

(Summer) \_\_\_\_\_ (Winter) \_\_\_\_\_

Individual Generator Power Factor

Rated Power Factor: \_\_\_\_\_ Leading: \_\_\_\_\_ Lagging: \_\_\_\_\_

Total Number of Generators to be interconnected pursuant to this Interconnection Application: \_\_\_\_\_

Elevation \_\_\_\_\_ Single phase \_\_\_\_\_ Three phase \_\_\_\_\_

Inverter Manufacturer, Model Name & Number (if used): \_\_\_\_\_

List of adjustable set points for the protective equipment or software: \_\_\_\_\_

Note: A completed Power Systems Load Flow data sheet must be supplied with the Interconnection Application.

Generating Facility Characteristic Data (for inverter-based machines):

Max design fault contribution current: \_\_\_\_\_ Instantaneous or RMS? \_\_\_\_\_

Harmonics Characteristics: \_\_\_\_\_

Start-up requirements: \_\_\_\_\_

Generating Facility Characteristic Data (for rotating machines):

RPM Frequency: \_\_\_\_\_

(\*) Neutral Grounding Resistor (If Applicable): \_\_\_\_\_

Synchronous Generators:

Direct Axis Synchronous Reactance,  $X_d$ : \_\_\_\_\_ P.U.

Direct Axis Transient Reactance,  $X'_d$ : \_\_\_\_\_ P.U.

Direct Axis Subtransient Reactance,  $X''_d$ : \_\_\_\_\_ P.U.

Negative Sequence Reactance,  $X_2$ : \_\_\_\_\_ P.U.

Zero Sequence Reactance,  $X_0$ : \_\_\_\_\_ P.U.

KVA Base: \_\_\_\_\_

Field Volts: \_\_\_\_\_

Field Amperes: \_\_\_\_\_

Induction Generators:

Motoring Power (kW): \_\_\_\_\_

$I^2t$  or K (Heating Time Constant): \_\_\_\_\_

Rotor Resistance,  $R_r$ : \_\_\_\_\_

Stator Resistance,  $R_s$ : \_\_\_\_\_

Stator Reactance,  $X_s$ : \_\_\_\_\_

Rotor Reactance,  $X_r$ : \_\_\_\_\_

Magnetizing Reactance,  $X_m$ : \_\_\_\_\_

Short Circuit Reactance,  $X_d$ : \_\_\_\_\_

Exciting Current: \_\_\_\_\_

Temperature Rise: \_\_\_\_\_

Frame Size: \_\_\_\_\_

Design Letter: \_\_\_\_\_

Reactive Power Required In Vars (No Load): \_\_\_\_\_

Reactive Power Required In Vars (Full Load): \_\_\_\_\_

Total Rotating Inertia, H: \_\_\_\_\_ Per Unit on kVA Base

**Note:** Please contact the Utility prior to submitting the Interconnection Application to determine if the specified information above is required.

Excitation and Governor System Data for Synchronous Generators Only:

Provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

**SECTION 3 - INTERCONNECTION FACILITIES INFORMATION**

Will a transformer be used between the generator and the Point of Common Coupling? \_\_\_ Yes \_\_\_ No

Transformer Data (If Applicable, for Interconnection Customer-Owned Transformer):

Is the transformer: \_\_\_ single phase \_\_\_ three phase? Size: \_\_\_\_\_ kVA

Transformer Impedance: \_\_\_\_\_ percent on \_\_\_\_\_ kVA Base

If Three Phase: \_\_\_\_\_

Transformer Primary: \_\_\_\_\_ Volts \_\_\_\_\_ Delta \_\_\_\_\_ Wye \_\_\_\_\_ Wye Grounded

Transformer Secondary: \_\_\_\_\_ Volts \_\_\_\_\_ Delta \_\_\_\_\_ Wye \_\_\_\_\_ Wye Grounded

Transformer Tertiary: \_\_\_\_\_ Volts \_\_\_\_\_ Delta \_\_\_\_\_ Wye \_\_\_\_\_ Wye Grounded

Transformer Fuse Data (If Applicable, for Interconnection Customer-Owned Fuse):

(Attach copy of fuse manufacturer's Minimum Melt and Total Clearing Time-Current Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Size: \_\_\_\_\_ Speed: \_\_\_\_\_

Interconnecting Circuit Breaker (if applicable):

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Load Rating (Amps): \_\_\_\_\_ Interrupting Rating (Amps): \_\_\_\_\_  
Trip Speed (Cycles): \_\_\_\_\_

Interconnection Protective Relays (If Applicable):

If Microprocessor-Controlled: \_\_\_\_\_  
List of Functions and Adjustable Setpoints for the protective equipment or software: \_\_\_\_\_

Setpoint Function	Minimum	Maximum
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____

If Discrete Components:

(Enclose Copy of any Proposed Time-Overcurrent Coordination Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_  
Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Current Transformer Data (If Applicable):

(Enclose Copy of Manufacturer's Excitation and Ratio Correction Curves)

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

Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

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

Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Potential Transformer Data (If Applicable):

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

Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

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

Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

**SECTION 4 - GENERAL INFORMATION**

Enclose copy of site electrical one-line diagram showing the configuration of all Generating Facility equipment, current and potential circuits, and protection and control schemes.

This one-line diagram must be signed and stamped by a licensed Professional Engineer if the Generating Facility is larger than 50 kW. Is One-Line Diagram Enclosed? \_\_\_\_\_ Yes \_\_\_\_\_ No

Enclose copy of any site documentation that indicates the precise physical location of the proposed Generating Facility (e.g., USGS topographic map or other diagram or documentation).

Proposed location of protective interface equipment on property (include address if different from the Interconnection Customer's address). \_\_\_\_\_

Enclose copy of any site documentation that describes and details the operation of the protection and control schemes. Is Available Documentation Enclosed? \_\_\_\_\_ Yes \_\_\_\_\_ No

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable). Are Schematic Drawings Enclosed? \_\_\_\_\_ Yes \_\_\_\_\_ No

**SECTION 5 - APPLICANT SIGNATURE**

I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is true and correct. I also agree to install a Warning Label provided by (utility) on or near my service meter location. Generating systems must be compliant with IEEE, NEC, ANSI, and UL standards, where applicable. By signing below, the Applicant also certifies that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance.

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

**SECTION 6 - INFORMATION REQUIRED PRIOR TO PHYSICAL INTERCONNECTION**

(Not required as part of the application, unless available at time of application.)

Installing Electrician: \_\_\_\_\_ Firm: \_\_\_\_\_

License No.: \_\_\_\_\_ Telephone: \_\_\_\_\_

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

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

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

Signed (Inspector – if required): \_\_\_\_\_ Date: \_\_\_\_\_

(In lieu of signature of Inspector, a copy of the final inspection certificate may be attached)

**Socorro Electric Cooperative Inc.**  
**NMPRC RULE 568 EXHIBIT 1A**  
**Simplified Interconnection Application-Certified Inverter-Based Generating Facilities**  
**With a Rated Capacity up to and including 10kW AC**

Please return completed application to Socorro Electric Cooperative, Inc. This Application is considered complete when it provides all applicable and correct information required below. Additional information to evaluate the Application may be required.

**Processing Fee**

A fee of \$50 must accompany this Application.

**Interconnection Customer**

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

Contact Person: \_\_\_\_\_

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Engineering Firm (If Applicable):** \_\_\_\_\_

Contact Person: \_\_\_\_\_

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Contact (if different from Interconnection Customer)**

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

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

Fax: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Owner of the facility (include % ownership by any electric utility):** \_\_\_\_\_

\_\_\_\_\_

Generating Facility Information: \_\_\_\_\_

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

GPS Location: \_\_\_\_\_

Electric Service Company: \_\_\_\_\_

Account Number: \_\_\_\_\_

Generator 10 kW Inverter Process: \_\_\_\_\_

Inverter Manufacturer: \_\_\_\_\_ Model \_\_\_\_\_

Nameplate Rating: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ (AC Volts)

Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_

System Design Capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

Prime Mover: Photovoltaic    Reciprocating Engine    Fuel Cell    Turbine  
Other (describe) \_\_\_\_\_

Energy Source: Solar    Wind    Hydro    Diesel    Natural Gas    Fuel Oil  
Other (describe) \_\_\_\_\_

Is the equipment UL1741 Listed? Yes \_\_\_\_\_ No \_\_\_\_\_

If Yes, attach manufacturer's cut-sheet showing UL1741 listing

Estimated Installation Date: \_\_\_\_\_ Estimated In-Service Date: \_\_\_\_\_

The 10 kW Inverter Process is available only for inverter-based Generating Facilities no larger than 10 kW that meet the codes, standards, and certification requirements of Attachment 3 of the Generator Interconnection Procedures (SGIP), or the QRU has reviewed the design or tested the proposed Generating Facility and is satisfied that it is safe to operate.

List components of the Generating Facility equipment package that are currently certified:

Equipment Type	Certifying Entity
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____



Interconnection Customer Signature

I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Generating Facility No Larger than 10kW contained in the New Mexico Interconnection Manual, Exhibit 3A and return the notice of completion when the Generating Facility has been installed.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

Utility Signature

The undersigned Utility agrees to abide by the Terms and Conditions contained in the New Mexico Interconnection Manual, Exhibit 3A and that optional paragraph 6.0 Indemnification  applies  does not apply.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_