San Isabel Electric Association, Inc.

11/6/07

Application for Interconnecting a Certified Inverter-Based Small Generating Facility Not Larger than 10kW for Residential or 25kW for Small Commercial

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 $200.00 must accompany this Application.

Interconnection Member - Facility Owner:

Name: _____

Contact Person: _____

Address: _____

City: State: Zip: _____

Telephone (Day): _____ (Evening): _____ Fax: _____

E-Mail Address: _____

Engineering Firm (If Applicable): _____

Renewable Energy System Installer: _____

Contact Person: _____

Address: _____

City: State: Zip: _____

Telephone (Day): _____ (Evening): _____ Fax: _____

E-Mail Address: _____

Contact: (If different from Interconnection Member)

Name: _____

Contact Person: _____

Address: _____

City: State: Zip: _____

Telephone (Day): _____ (Evening): _____ Fax: _____

E-Mail Address: _____

Small Generating Facility Information

Location (if different from above): _____

Account Number : _____ % ownership by any electric utility: _____

Small Generator Class: ___ not greater than 10 kW Inverter Process for Residential
___ not greater than 25 kW Inverter Process for Small Commercial

Inverter
Manufacturer: _____ Model _____ kW _____

Phases _____ Volts AC _____ *(240V line-to-line w/center neutral required for 1-phase)*

Generator
Design Capacity at installed altitude: _____ (kW) _____ (kVA)

Energy Source: Solar _____ Wind _____ Hydro _____ Biomass _____ Other _____

Is the equipment UL 1741 Listed? Yes _____ No _____
If Yes, attach manufacturer's cut-sheet showing UL1741 listing.

Estimated Installation Date: _____ Estimated In-Service Date: _____

The 10 kW to 25 kW Inverter Process is available only for inverter-based Small Generating Facilities not larger than 10 kW to 25 kW that meet the codes, standards, and certification requirements as set forth in the Member San Isabel Electric Association, Inc. Application and Agreement. The inspection procedure may be waived if the system is designed and tested by a qualified licensed professional engineer and a written report is provided to San Isabel Electric such that San Isabel Electric is satisfied that it is safe to operate.

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

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

Interconnection Member 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 Small Generating Facility No Larger than 10 kW to 25 kW for Small Commercial and return the Certificate of Completion when the Small Generating Facility has been installed. I further agree to relinquish any claims to any Renewable Energy Credits (REC) that will be generated with my equipment as part of this agreement.

Signed: _____

Title: _____ Date: _____

Contingent Approval to Interconnect the Small Generating Facility

(For Company Use Only)

Interconnection of the Small Generating Facility is approved contingent upon the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than 10 kW to 25 kW for Small Commercial and return of the Certificate of Completion.

San Isabel Electric Association - Signature: _____

Title: _____ Date: _____

Application ID Number: _____

Company waives inspection/witness test? Yes ____ No ____

CERTIFICATE OF COMPLETION

I certify that installation of the Small Generating Facility described in the previously submitted Application for Interconnection the located at

_____ (physical address), including wiring, circuit breaker(s), manual switchgear (if applicable), inverter (if DC to AC conversion required), backup generator with transfer bus (if applicable) is complete and ready for testing and installation of forward and reverse power flow metering by San Isabel Electric Association.

_____

owner's signature

_____

date

Attach one copy of local Building Department or Colorado State Electric Inspector inspection approval, and local Architectural or other Aesthetic Control jurisdiction approval if applicable.

Attachment 1

Certification Codes and Standards

IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems (including use of IEEE 1547.1 testing protocols to establish conformity)

UL 1741 Inverters, Converters, and Controllers for Use in Independent Power Systems

IEEE Std 929-2000 IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems

NFPA 70 (2005), National Electrical Code

IEEE Std C37.90.1-1989 (R1994), IEEE Standard Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems

IEEE Std C37.90.2 (1995), IEEE Standard Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers

IEEE Std C37.108-1989 (R2002), IEEE Guide for the Protection of Network Transformers

IEEE Std C57.12.44-2000, IEEE Standard Requirements for Secondary Network Protectors

IEEE Std C62.41.2-2002, IEEE Recommended Practice on Characterization of Surges in Low Voltage (1000V and Less) AC Power Circuits

IEEE Std C62.45-1992 (R2002), IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000V and Less) AC Power Circuits

ANSI C84.1-1995 Electric Power Systems and Equipment - Voltage Ratings (60 Hertz)

IEEE Std 100-2000, IEEE Standard Dictionary of Electrical and Electronic Terms

NEMA MG 1-1998, Motors and Small Resources, Revision 3

IEEE Std 519-1992, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems

NEMA MG 1-2003 (Rev 2004), Motors and Generators, Revision 1

Attachment 2

Certification of Small Generator Equipment Packages

1.0 Small Generating Facility equipment proposed for use separately or packaged with other equipment in an interconnection system shall be considered certified for interconnected operation if (1) it has been tested in accordance with industry standards for continuous utility interactive operation in compliance with the appropriate codes and standards referenced below by any Nationally Recognized Testing Laboratory (NRLT) recognized by the United States Occupational Safety and Health Administration to test and certify interconnection equipment pursuant to the relevant codes and standards listed in SGIP Attachment 3, (2) it has been labeled and is publicly listed by such NRLT at the time of the interconnection application, and (3) such NRLT makes readily available for verification all test standards and procedures it utilized in performing such equipment certification, and, with consumer approval, the test data itself. The NRLT may make such information available on its website and by encouraging such information to be included in the manufacturer's literature accompanying the equipment.

2.0 The Interconnection Member must verify that the intended use of the equipment falls within the use or uses for which the equipment was tested, labeled, and listed by the NRLT.

3.0 Certified equipment shall not require further test-type review, testing, or additional equipment to meet the requirements of this interconnection procedure; however, nothing herein shall preclude the need for an on-site commissioning test by the parties to the interconnection nor follow-up production testing by the NRLT.

4.0 If the certified equipment package includes only interface components (switchgear, inverters, or other interface devices), then an Interconnection Member must show that the generator or other electric source being utilized with the equipment package is compatible with the equipment package and is consistent with the testing and listing specified for this type of interconnection equipment.

5.0 Provided the generator or electric source, when combined with the equipment package, is within the range of capabilities for which it was tested by the NRLT, and does not violate the interface components' labeling and listing performed by the NRLT, no further design review, testing, or additional equipment on the customer side of the point of common coupling shall be required to meet the requirements of this interconnection agreement.