

EXHIBIT 1B

Standard Interconnection Application Generating Facilities with Rated Capacities Greater Than 10 kW

A Customer-Generator applicant (“Applicant”) hereby makes application to Farmers’ 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 Farmers’ Electric Cooperative, as follows:

Farmers’ Electric Cooperative, Inc.
PO Box 550, Clovis, NM, 88102-0550
Fax Number: 575-769-2118
E-Mail Address: engineering@fecnm.org
Contact Name: Michael McCord
Contact Title: Manager of Electric Operations

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): _____

Telephone (Daytime): _____

Telephone (Evening): _____

Fax Number: _____

E-Mail Address: _____

Utility: Farmers' Electric Cooperative, Inc.

(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 and Certifying Entity:

1. Equipment:

Certifying Entity:

- 2. Equipment: _____ Certifying Entity: _____
- 3. Equipment: _____ Certifying Entity: _____
- 4. Equipment: _____ Certifying Entity: _____
- 5. Equipment: _____ Certifying Entity: _____

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. _____		

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.: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: _____

Installation Date: _____

State Permit Number: _____

Interconnection Date: _____

Signed (Inspector – if required): _____

Date: _____

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

Distributed Generation (DG) accounts are assessed a monthly Facility Charge Minimum (FCM) based on installed kW. As a minimum charge, the member has “beneficial use” of the FCM amount and is not assessed as long as the member uses at least this minimum amount of electricity. The FCM is calculated as $\$5.72 \times \text{installed kW}$. Example: $6\text{kW} \times \$5.72 = \34.32 FCM. Additionally, there is a \$20.00 Customer Charge and a \$8.49 monthly charge to recover the extra cost associated with reading and calculating the bi-directional meter data for net metering. In this scenario, the total base charge would be: $\$34.32 + \$20 + \$8.49 = \62.81 . Again, the FCM of \$34.32 would only be assessed if energy to that amount is not used by the member from FEC. *Commercial account’s Customer Charge will be marginally different.