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EL PASO ELECTRIC COMPANY

NM PUBLIC REGULATION COMM

FOURTH REVISED SAMPLE FORM NO. 38 RECORDS MANAGEMENT BUREAU X  
CANCELLING THIRD SAMPLE FORM NO. 38 X

STANDARD INTERCONNECTION APPLICATION  
FOR GENERATING FACILITIES WITH RATED CAPACITIES  
GREATER THAN 100 KW AND UP TO 10 MW AC X

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X

(SEE ATTACHMENT)

**EFFECTIVE**

JAN 16 2019

REPLACED BY NMPRC

BY Rule 210

Advice Notice No. 262

Signature/Title 

James Schichtl  
Vice President - Regulatory Affairs

**Standard Interconnection Application  
For Generating Facilities With Rated Capacities Greater Than 100 kW and Up To 10 MW AC**

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A Customer-Generator applicant ("Applicant") hereby makes application to El Paso Electric Company ("EPE") to install, and operate a generating facility with rated capacity greater than 100 kW and up to 10 MW interconnected with the EPE utility system.

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Written Applications should be submitted by mail, e-mail, or fax to El Paso Electric Company, as follows:

El Paso Electric Company  
 Attention: Renewables Development  
 El Paso Electric Company (Loc 131)  
 P.O. Box 982  
 El Paso, Texas 79960  
 Fax Number: (915) 521-4418  
 E-Mail Address: [smallrenewables@epelectric.com](mailto:smallrenewables@epelectric.com)  
 El Paso Electric Contact Department: Renewables Development

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 EPE Company after the application is deemed complete).

**Application Fee Must Accompany this Application**

System >100 kW up to and including 10,000 kW: \$100.00 plus \$1.00 for each kW above 100 kW

X

**SECTION 1. APPLICANT INFORMATION**

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

Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility Location (if different from above):

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_  
 Fax Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_  
 EPE Account Number: \_\_\_\_\_

(Existing Account Number, if generator is to be interconnected on the Customer side of EPE's 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     Reciprocating Engine     Gas Turbine     Steam Turbine  
                            Microturbine     PV    Other (describe)

Type of Generator:     Synchronous     Induction     Inverter

Generator Nameplate Rating: \_\_\_\_\_ kW (Typical); Generator Nameplate KVA: \_\_\_\_\_

Interconnection Customer or Customer-Side 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:

	<u>Equipment Type</u>	<u>Certifying Entity</u>
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, Xd: \_\_\_\_\_ P.U.

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

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

Negative Sequence Reactance, X2: \_\_\_\_\_ P.U.

Zero Sequence Reactance, X0: \_\_\_\_\_ P.U.

KVA Base: \_\_\_\_\_ Field Volts: \_\_\_\_\_ Field Amperes: \_\_\_\_\_

Induction Generators\*

Motoring Power (kW): \_\_\_\_\_ 12t or K (Heating Time Constant): \_\_\_\_\_

Rotor Resistance, Rr: \_\_\_\_\_ Stator Resistance, Rs: \_\_\_\_\_

Stator Reactance, Xs: \_\_\_\_\_ Rotor Reactance, Xr: \_\_\_\_\_

Magnetizing Reactance, Xm: \_\_\_\_\_ Short Circuit Reactance, Xd'': \_\_\_\_\_

Exciting Current: \_\_\_\_\_ Temperature Rise: \_\_\_\_\_

Frame Size: \_\_\_\_\_ Design Letter: \_\_\_\_\_

Reactive Power Required (Vars-No Load) \_\_\_\_\_ Reactive Power Required (Vars-Full Load) \_\_\_\_\_

Total Rotating Inertia, H: \_\_\_\_\_ Per Unit kVa Base \_\_\_\_\_

\*Note: Please contact El Paso Electric Company 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 not 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?  
 Transformer Impedance:  percent on  kVA Base   
 If Three Phase:      
 Transformer Primary:      
 Transformer Secondary:      
 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):  Interrupt 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:

	<u>Setpoint Function</u>	<u>Minimum</u>	<u>Maximum</u>
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.	<input type="text"/>	<input type="text"/>	<input type="text"/>

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:

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:   
 Manufacturer:  Type:  Accuracy Class:  Proposed Ratio Connection:

Potential 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:   
 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

Customer-Applicant shall install wiring and REC meter socket for a REC meter to measure the output of the large renewable distributed generation facility. The REC meter socket shall be identified and labeled "REC Meter" and accessible and located near EPE's retail electric service billing metering.

Should the Customer-Applicant modify the approved qualifying facility to either expand or reduce the facility's maximum rated capacity, the Customer-Applicant must submit a *Standard Expansion Application* for review and approval by EPE. A *Standard Expansion Application* executed by the Customer and Company amends the Customer's Interconnection Agreement.

**SECTION 5. APPLICANT SIGNATURE**

I hereby certify that, to the best of my knowledge, the information provided in the Interconnection Application is true and correct. I also agree to install a Warning Label provided by EPE 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: \_\_\_\_\_

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

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

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

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

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

Firm: \_\_\_\_\_

License Number: \_\_\_\_\_

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

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

Telephone: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

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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.)

**Standard Expansion Application  
For Certified Inverter-Based Generating Facilities  
With A Rated Capacity Greater Than 100 kW and Up To 10 MW AC**

X

**Processing Fee: \$100.00 plus \$1.00 for each additional kW above 100 kW**

**Interconnection Customer**

Name: \_\_\_\_\_ Contact Person: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone (Day): \_\_\_\_\_ E-Mail Address: \_\_\_\_\_  
Account Number: \_\_\_\_\_

**Engineering Firm**

Firm: \_\_\_\_\_ Contact Person: \_\_\_\_\_  
Telephone (Day): \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Generating Facility Information**

Service Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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

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

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

Additional Generator Nameplate Rating (kW AC): \_\_\_\_\_

Additional Inverter Nameplate Rating (kW) (kVa) (AC Volts): \_\_\_\_\_

Single Phase: \_\_\_\_\_ Three Phase: \_\_\_\_\_ **Total New System Design Capacity (AC):** \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

Expected first year output : \_\_\_\_\_ (kWh)

Is equipment UL1741 Listed? Yes \_\_\_\_\_ No \_\_\_\_\_ If Yes, attach manufacturer's cut-sheet showing UL certification.

List all certified components of the Generating Facility equipment:

<u>Equipment Type (Manufacturer, Model)</u>	<u>Certifying Entity</u>
1. _____	_____
2. _____	_____

**Enclose a copy of the site's electrical one-line diagram showing the configuration of all Generating Facility equipment including the proposed location of the meters and the AC disconnect.**

**Interconnection Customer Signature**

I hereby certify that, to the best of my knowledge, the information provided in this Expansion Application is true and correct. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Generating Facility No Larger than 10 MW pursuant to the description contained in the New Mexico Interconnection Manual, Exhibit 3A, and further agree to notify EPE of the expansion completion when the additional equipment has been installed.

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Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**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 \_\_\_\_\_ does apply \_\_\_\_\_ does not apply.

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_