City of Truth or Consequences
EXHIBIT 1B
Standard Interconnection Application
Generating Facilities with Rated Capacities Greater Than 10 kW

A. Customer-Generator applicant ("Applicant") hereby makes application to Truth or Consequences ("Utility") to install and operate a generating facility with rated capacity greater than 10 kW interconnected with the utility system.

Written applications should be submitted by mail, e-mail or fax to Utility, as follows:

City of Truth or Consequences
505 Sims Street
Truth or Consequences, NM 87901
Email: tburnette@torcnm.org
Contact Name: Planning & Zoning Official

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: ____________________________
(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:

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Certifying Entity</th>
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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): __________
I2t 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 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):_________Interruption 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:

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<th>Setpoint Function</th>
<th>Minimum</th>
<th>Maximum</th>
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If Discrete Components
(Enclose Copy of any Proposed Time-Overcurrent Coordination Curves)

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<thead>
<tr>
<th>Manufacturer:</th>
<th>Type:</th>
<th>Style/Catalog No.:</th>
<th>Proposed Setting:</th>
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Current Transformer Data (If Applicable)
(Enclose Copy of Manufacturer’s Excitation and Ratio Correction Curves)

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>Type:</th>
<th>Accuracy Class:</th>
<th>Proposed Ratio Connection:</th>
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**Potential Transformer Data (If Applicable)**

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**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: ___________________________

Interconnection Date: ___________________________

Signed (Inspector – if required): ___________________________

Date: ___________________________

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