## Northern Rio Arriba 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 Northern Rio Arriba 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:
\$150 if the proposed generating facility will have a nameplate rating of less than or equal to 25kW
300 if the proposed generating facility will have a nameplate rating of greater than $25kW$ and less than or equal to $100kW$
\$300 + \$1.00 per kW if the proposed generating facility will have a nameplate rating greater than 100kW;
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 NORA Electric Cooperative, Inc., as follows:
Northern Rio Arriba Electric Cooperative, Inc.  1135 Camino Escondio Chama NM 87520  Fax Number: 575-756-2200  E-Mail Address: ashley@noraelectric.org  Contact Name: Ms. Ashley Rendon  Contact Title: Director of Consumer Services
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:  Moiling Address:
Mailing Address:; State:; Zip Code:
Facility Location (if different from above):
Telephone (Daytime):
relepnone (Evening):
Fax Number:
E-Wall Address.
Utility
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:SynchronousInduction 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? YesNo
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:  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:
<u>Induction Generators:</u>
Motoring Power (kW):
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?YesNo
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Transformer Data (If Applicable, for Interconnection Customer-Owned Transformer):
Is the transformer:single phasethree 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 Primary: Volts Delta Wye Wye Grounded Transformer Secondary: Volts Delta Wye Wye Grounded Transformer Tertiary: Volts Delta Wye Wye Grounded
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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 Circu	iit Breaker (if app	olicable):	
Manufacturer:		Type:	
Load Rating (Am	ıps): Int	Type: errupting Rating (Amps):	_
Trip Speed (Cycl	es):	-	
Interconnection Prote If Microprocessor-Co		Applicable):	
		oints for the protective equipment or	software
Setpoint Function		inimum Maximum	sortif are.
1.			
2.			
3.			
4.			
5.			
6.			
If Discrete Componer	ıts:		
(Enclose Copy of any	Proposed Time-0	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 1			
	nufacturer's Exci	tation and Ratio Correction Curves)	
Manufacturer:			
Type: Accuracy Class	: Proposed Ratio	Connection:	
Manufacturer:	n 1n 1		
Type: Accuracy Class	: Proposed Ratio	Connection:	
D-441-1 Thurs C	D / (ICA P	11)	
Potential Transformer	Data (II Applica	ble):	
Manufacturer:	. D 1 D.4:	Commontions	
Type: Accuracy Class Manufacturer:	: Proposed Ratio	Connection:	
	· Proposed Patio	Connection	
Type: Accuracy Class	. Froposed Kallo	Connection.	
SECTION 4. GENERAL	INFORMATION		
		. 1. 1	
		ine diagram showing the configur ts, and protection and control schem	
This one-line diagram	must be signed	and stamped by a licensed Profess	ional Engineer if the Consection
		ine Diagram Enclosed?	nonai Engineer ii the Generating
Yes No		me Diagram Enclosed:	
100140	,		
Enclose copy of any	site documenta	tion that indicates the precise phy	vsical location of the proposed
		raphic map or other diagram or docu	
	<i>3</i> ,		
Proposed location of Interconnection Custo		ace equipment on property (include	
The state of the s			
control schemes. Is A		ion that describes and details the ntation Enclosed?	operation of the protection and
YesNo			
England agrice of the	amatia durud	for all anatostics and account	
		for all protection and control circ g circuits (if applicable). Are Scheme	
Yes No	ararm/monitoring	s on ours (if appricable). Are scheme	ane Diamings Englosed?

## **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. The Consumer expressly understands and agrees that all Environmental Attributes (defined below) that are created or produced by the installation, existence and operation of a net-metered renewable energy generator system shall belong to NORTHERN RIO ARRIBA ELECTRIC COOPERATIVE, INC. and the Consumer has not and will not use the Environmental Attributes for any other purpose. NORTHERN RIO ARRIBA ELECTRIC COOPERATIVE, INC. may report or register ownership of the Environmental Attributes with any entity and may utilize those Environmental Attributes (or transfer them) in any manner. NORTHERN RIO ARRIBA ELECTRIC COOPERATIVE, INC. or its assignee may also register the netmetered renewable energy generator system with any entity for purposes of tracking and transferring Environmental Attributes shall be for the entire term of member net-metered contract, including any Environmental Attributes that are reserved or "banked" during the course of the term of any such contract agreement but not used, sold assigned or otherwise transferred during the term of any such contract "Environmental Attributes" means any and all environmental characteristics that are attributable to renewable energy such as a) green tags, b) renewable energy credits (RECs), c) greenhouse of gas or emissions reductions, d) credits, offset, allowances or benefits, e) any avoided emissions of pollutants to the air, soil, or water, including sulfur oxides (SO2), nitrogen oxides (NOX), carbon dioxide (CO2), carbon monoxide (CO), methane (CH4), nitrous oxide, carbon, volatile organic compounds, (VOC), mercury, and other emissions avoided, and f) any and all other green energy or other environmental benefits associated with the generation of renewable energy - regardless of how any present or future law or regulation attributes or allocates such characteristics.

Signature of Applic	cant:		
Name (printed)			-
Address			***************************************
Telephone #			
NORA Account #_			
SECTION 6. INFORM	MATION REQUIRE	ED PRIOR TO PHYSICAL INTERCONNI	ECTION
(Not required as p	art of the applica	ation, unless available at time of ap	plication.)
Installing Electricia	ın:	Firm:	,
License No.:			
Mailing Address:		Zip Code:	
City:	State:	Zip Code:	***************************************
Telephone:			
Installation Date: _			
Interconnection Da	te:		
Signed (Inspector – Date:	if required):		
(In lieu of signature	of Inspector, a co	opy of the final inspection certificate i	nay be attached)