Big Horn Rural Electric Company

Application for Operation of Customer-Owned Generation

This application should be completed and returned to the Cooperative, in order to begin processing the request.

INFORMATION: This application is used by the Cooperative to determine the required equipment configuration for the Customer interface. Every effort should be made to supply as much information as possible. You may have to contact your distributor so some of the information.

PART 1

OWNER/APPLICANT INFORMATION

Owner/Customer						
Name:						
City:	County:	State:	Zip:			
Phone Number:	Representative:					
Email Address:	Fax Number:					
PROJECT DESIGN/	ENGINEERING (ARC	HITECT) (as applicable)				
Company:						
		State:				
Email Address:	Fax Number:					
ELECTRICAL CON	TRACTOr (as applicab	le)				
Company:						
		State: Zip:				
Email Address:	Fax Number:					
TYPE OF GENERAT	OR (as applicable)					
Photovoltanic	Wind	Microturbine				
Diesel Engine	Gas Engine	Combustion Tur	bine			
Other						

ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION INFORMATION

The following information is necessary to help properly design the Cooperative customer interconnection. This information is not intended as a commitment or contract for billing purposes. Total Site Load (kW) Residential Commercial Industrial Generator Rating _____(kW) Annual Estimated Generation (kWh) **Mode of Operation** Power Export _____ Isolated Paralleling DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION Give a general description of the proposed installation, including a detailed description of its planned location, the date you plan to operate the generator, the frequency with which you plan to operate it and whether you plan to operate it during on or off-peak hours. PART 2 (Complete all applicable items. Copy this page as required for additional generators) SYNCHRONOUS GENERATOR DATA Unit number: _____ Total number of units with listed specifications on site: Manufacturer: ____ Date of manufacture: _____ Type: Serial Number (each): Single Three R.P.M.: Frequency (Hz):_____ Phases: Rated Output (for one unit): _____ Kilowatt____ Kilovolt-Ampere ____ Rated Power Factor (%): Rated Voltage (Volts): Rated Amperes: Field Volts: __ Field Amps: _____ Motoring power (kW): _____ Synchronous Reactance (X'd): ______ % on _____ KVA base Transient Reactance (X'd): % on KVA base Subtransient Reactance (X'd): ______ % on _____ KVA base Negative Sequence Reactance (X'd): _______ % on KVA base Zero Sequence Reactance (X'd): _______ % on _____ KVA base Neutral Grounding Resistor (if applicable): I₂²t or K (heating time constant): Additional information:

INDUCTION GENERATOR DATA

Rotor Resistance (Rr):				ohms
Rotor Reactance (Xr):				ohms
Magnetizing Reactance (Xr				
Design letter:				
Exciting Current:		Temp Rise (de	g C³):	V (C-11 1 1)
Reactive Power Required:				
Additional information:				
PRIME MOVER (Comple	ete all applicable ite	ems)		
Unit number:				
Manufacturer:				
Serial Number:		Date of manuf		
H.P. Rated:	H.P. Max:	Ine	ertia Constant:	lbft ²
Energy Source (hydro, steam				
GENERATOR TRANSFO	DRMFR (complete s	all applicable ite	eme)	
TRANSFORMER (between	, -		31113)	
Generator unit number:	·		manufacturer:	
Manufacturer:				
Serial Number:				
High Voltage:	KV Connection	n: delta	wve. Neutral se	olidly grounded?
Low Voltage:	KV. Connection:	delta		olidly grounded?
Transformer Impedance (Z)				
Transformer Resistance (R)				
Transformer Reactance (X)				
Neutral Grounding Resistor				
INVERTOR DATA (if app	olicable)			
		ľ	Model:	
Manufacturer:Rate Power Factor (%):	Rated	Voltage (Volts)	: R:	ated Amperes:
Inverter Type (ferroresonan				
Type commutation: for	rced line			
	aximum Single Harm	nonic (%)		
Ma	aximum Total Harmo	onic (%)		
Note: Attache all available	e calculations test re	enorts and oscil	lographic prints	showing inverter output

Note: Attache all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.

POWER CIRCUIT BREAKER (if applicable)

Manufacturer: _					Moo	del:	
Rated Voltage (A	kilovolts):				Rate a	mpacity ((Amperes)
Interruption rat	ing (Ampere	s): _			BI	L Rating:	·
Interruption me	dium / insula	ting	g medium (ex.)	Vacuum, gas, oil)			
Control Voltage	(Closing): _			_(Volts) AC	DC		
Control Voltage	(Tripping):			(Volts) AC	DC	Batter	Charged Capacitor
Close energy:	Spring Mot	or	Hydraulic	Pneumatic	Other:		
Trip energy:	Spring Mot	or	Hydraulic	Pneumatic	Other:		

ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, all applicable elementary diagrams, major equipment, (generators, transformers, inverters, circuit breakers, protective relays, etc.) specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the interconnection. Also describe the project's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.

END OF PART 2

SIGN OFF AREA

The customer agrees to provide the Cooperative with any	
interconnection. The customer shall operate his equipmen	nt within the guidelines set forth by the
cooperative.	
Applicant	Date

ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative contact: Jeff Pillow

Title: General Manager Address: 415 South Street

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Basin, WY 82410

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