### **BOARD POLICY 307: ATTACHMENT A**



# Application for Distributed Generation Project

I, as Requestor, have fully read, understand, and accept all provisions, terms, and conditions set forth in Shelby Electric Cooperative (Cooperative) Board Policy 307 - Interconnection and Parallel Operation of Distributed Generation.

I desire to interconnect electric generating equipment as a Distributed Generation Project (DGP) to the low-voltage premises wiring at my property. I desire to undertake Parallel Operation of this generating equipment with the electric system of the Cooperative as defined in Board Policy 307.

I desire to receive compensation/credit for any over the Cooperative's provisions for net metering	-
the Cooperative's provisions for Qualifying I	Facilities as defined in Board Policy 321
I agree to pay the non-refundable <b>application fee</b> or necessary prior to the Cooperative accepting this Application for the cooperative accepting the the Cooperative acceptance accept	•
I agree the Cooperative will evaluate and analyze the Cooperative electric system and (ii) the quality of electroperative. The Cooperative has identified the debe \$ Should a further deposit be requidollars remain after the analysis, they will be credited associated with interconnection of my DGP or returning the cooperative and the cooperative will be credited associated with interconnection of my DGP or returning the cooperative will be credited associated with interconnection of my DGP or returning the cooperative will evaluate and analyze the cooperative will evaluate and analyze the cooperative analyze the cooperativ	ectric service provided to the members of the eposit for analysis associated with this Application to red, the Cooperative will notify me. Should deposit ed toward any necessary construction costs
I understand that, if there is Cooperative system cooperative before construction required by the Cooperative costs of construction required by the Cooperative will be required to pay 110% of the estimated	operative for the interconnection would begin. operative will be provided after analysis is complete,
I agree not to undertake Parallel Operation of any e premises wiring at my service location without an "a authorized officer of the Cooperative.	- , ,
Signed (Requestor)	Date
Account Number	Map Location Number

# Distributed Generation Project General Description and Electrical Characteristics

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

INFORMATION: This application is used by the Cooperative to determine the required equipment configuration for the Requestor's interconnection. Every effort should be made to supply as much information as possible. The Cooperative reserves the right to request any additional information pertaining to the installation of generation equipment/net metering at any time.

# **PART 1** (Required to be Completed for All Interconnection Requests)

# REQUESTOR/APPLICANT INFORMATION

Requestor Name:			
		State: Zip:	
Email Address:			
Phone Number:		Fax Number:	_
DISTRIBUTED GEN	ERATION PROJECT(DGP	) SITE INFORMATION	
Requestor Cooperative A	ccount Number:		
Cooperative Map Locatio	n Number:		
Physical Address of Site:_			
City:	County:	State: Zip:	
PROJECT DESIGN/E	ENGINEERING (ARCHITE	CT) (as applicable)	
Company:			
Contact Name:	Licens	e/Registration Number:	
Mailing Address:			
		State: Zip:	
Email Address:			
		Fax Number:	

## **ELECTRICAL CONTRACTOR (as applicable)**

Company:			
Contact Name:	Licen	se/Registration Number:_	
Mailing Address:			
City:	County:	State:	Zip:
Email Address:			
Phone Number:		Fax Number:	
TYPE OF GENERATO	R		
☐Photovoltaic ☐Wind ☐	☐Microturbine ☐Diesel Engir	e □Gas Engine □Com	nbustion Turbine
□Battery □Other:			
CERTIFICATION			
For inverter-based installar If yes, please provide evide	tions, is the inverter UL 1741 cence of certification.	ertified? □Yes □No	
ESTIMATED LOAD A	ND GENERATOR RATI	NG INFORMATION	
_	is necessary to help properly ormation is not intended as a c	•	
Total Nameplate Rating:	kW-AC	kW-DC	kVAR
Minimum during production	on hours: Maxim	um during production ho	urs:
Annual Est Generation:	(kWh) Net Annu	al Est Energy Consumptic	on:(kWh)
DESCRIPTION OF PR	ROPOSED DGP INSTALL	ATION AND OPERA	TION

Attach a description of the proposed DGP installation, including a detailed description of its planned location, the Point of Interconnection, structure(s) to be served by the generator, and the date you plan to operate the DGP generator.

#### ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed DGP and any related 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 DGP's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.

# PART 2 (Required to be Completed for Interconnection Requests Exceeding 10 kW)

(Complete all applicable items. Copy pages as required for additional generators.)

# **SYNCHRONOUS GENERATOR DATA**

Unit Number:	M	anufacturer:		
Total number of units with liste				
Туре:	Da	te of manufacture:		
Serial Number (each):				
Phases: □Single □Three	R.P.M.:	Freq	uency (Hz):	
Rated Output (for one unit):		Kilowatts	K	ilovolt-Amperes
Rated Power Factor (%):	Rated Voltage	(Volts):	Rated Amperes	s:
Field Volts: Field Amps: Motorir	ng power (kW):			
Synchronous Reactance (Xd):		% on		KVA base
Transient Reactance (X'd):		% on		KVA base
Subtransient Reactance (X''d): _		% on		KVA base
Negative Sequence Reactance (	X <sub>2</sub> ):	% on		KVA base
Zero Sequence Reactance (Xo):				
Neutral Grounding Resistor (if a	pplicable):			
Additional information:				
INDUCTION GENERATO	R DATA			
Motoring power:	kW	Equivalent MVA	\ base:	MVA
Rotor Resistance (Rr):				
Rotor Reactance (Xr):	ohms	Stator Reactand	ce (Xs):	ohms
Magnetizing Reactance (Xm):	ohms	Short Circuit Re	actance (Xd"):	ohms
Design letter:		Frame Size:		
Exciting Current:		Temp Rise (d	eg C°):	
Reactive Power Required:	Va	rs (no load),	Var	s (full load)
I <sub>2</sub> <sup>2</sup> t or K (heating time constant)				
Additional information:				
PRIME MOVER (Comple	te all applicabl	e items)		
Unit Number:	M	anufacturer:		
Type:				
Serial Number:				
H.P. Rated:		Ine	ertia Constant:	lbft. <sup>2</sup>
Energy Source (hydro, steam, w				

# **GENERATOR TRANSFORMER (between generator and utility system; if supplied by applicant)**

Generator unit num	ıber:		Date of manu	ıfactureı	~ <u></u>	
Manufacturer:						
Size:	_ kVA					
High Voltage:		Connection:	delta □wye,	Neutra	al solidly gro	unded? □Y □N
Low Voltage:	KV,	Connection:	delta □wye,	Neutra	al solidly gro	unded? □Y □N
Tertiary Delta Wind	ing: Y/N					
Transformer Impeda	ance(Z):		% c	on		KVA base
Transformer Resista						
Transformer Reacta						
Neutral Grounding I	Resistor (if applic	able):				
Transformer Fuse (i	f applicable)—M	anufacturer:	Тур	oe:	Size:	Speed:
INVERTER DAT		ble)				
Type commutation:						
Manufacturer: Rated Power Factor			Model:			
Rated Power Factor	(%):	Rated Voltage	(Volts):		Rated An	nperes:
Inverter Type (ferro	resonant, step, p	ulse-width mo	dulation, etc)	:		
Harmonic Distortion	Maximum	Total Harmonic	(%)			
Note: Attach all ava voltage and current		ns, test reports,	and oscillogr	aphic pr	ints showing	g inverter output
POWER CIRCUI	T BREAKER	(if applicab	le)			
Manufacturer:			Model:			
Rated Voltage (kilov	olts):		Rated ampac	ity (Amp	eres):	
Interrupting rating (	'Amperes):		BIL Rati	ing:		
Interrupting mediur	n / insulating me	dium (ex. Vacu	um, gas, oil):	<u> </u>		/
Control Voltage (Clo	sing):	(Vc	olts) □AC □E	C		
Control Voltage (Tri					tery $\square$ Char	ged Capacitor
Close energy: □Spr	ing $\square$ Motor $\square$ H	ydraulic □Pneı	umatic □Oth	er:		
Trip energy: □Sprin	g □Motor □Hy	draulic □Pneur	natic $\square$ Othe	r:		
Multi ratio?: ☐No ☐	☐Yes: (Available	taps)				

# **PART 3 (Required to be Completed for All Interconnection Requests)**

## **SIGNATURES AND QUEUE DATE**

The Requestor agrees to provide the Cooperative with any additional information required to complete the Interconnection. The Requestor shall operate Requestor's DGP and related equipment within all applicable contractual obligations, policies, and guidelines set forth by the Cooperative.

Requestor	]	Date	
PART 4			
FOR COOPERATIVE USE ONLY			
Map Location #:			
Size of Service / Type of Meter:			
Special Provisions:			
Requestor Interconnection Application and Co	onfirmation of Pay	ment Received	
Application Fee:	paid Analysis Dep		□paid
Application Fee: □p		osit:	
	Time:	osit:	□paid
Holding Date:	Time:	osit:	□paid
Holding Date: Initial (Cooperative Representative):	Time:	osit:	□paid
Holding Date:  Initial (Cooperative Representative):  Queue Date:	Time:	osit:	□paid
Holding Date: Initial (Cooperative Representative): Queue Date: Initial (Cooperative Representative):	Time:	osit:	□paid

Annotated copy with Holding Date included to be provided to the Requestor