Page 27

KARNES ELECTRIC COOPERATIVE, INC.

Application for Operation of Customer-Owned Generation

This application should be completed as soon as possible and returned to the Cooperative Customer Service representative in order to begin processing the request. See *Distributed Generation Procedures and Guidelines Manual for Members* for additional information.

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.

PART 1 MEMBER/APPLICAN	IT INFORMATION			
Member:	· · · · · · · · · · · · · · · · · · ·			
City:	County:	State:	Zip Code:	
Phone Number:		KEC Account #:		
Representative:				
PROJECT DESIGN	N/ENGINEERING (as	s applicable)		
Company:	·			
			Zip Code:	
Phone Number:	F	Representative:		
ELECTRICAL CON	ITRACTOR (as appli	icable)		
			Zip Code:	
	Representative:			
	ATOR (as applicable)	·		
Photovoltaic	Wind	Microtu	Microturbine	
			Other	

			g. = -	
		esign the Cooperation	ve customer ct for billing	
(kW)	Total DG Output_	(kW)		
ı (check all th	at apply)			
Par	alleling	Power Expor	t	
F PROPOSE	ED INSTALLATIO	N AND OPERAT	ION	
ription of the p	roposed installation,	including when you	plan to operate	
	ation will be us information is information is information is information is information is information.	(kW) Total DG Output_ (check all that apply) Paralleling F PROPOSED INSTALLATION	ation will be used to help properly design the Cooperative information is not intended as a commitment or contraction (kW) Total DG Output(kW) (check all that apply) ParallelingPower Export	ation will be used to help properly design the Cooperative customer information is not intended as a commitment or contract for billing (kW) Total DG Output(kW) a (check all that apply)

Page	29
------	----

PART 2

(Complete all applicable items. Copy this p	page as required for addition	onal generators.)			
SYNCHRONOUS GENERATOR DATA					
Unit Number: Total number of unit	s with listed specifications	on site:			
Manufacturer:					
Type: Date of					
Serial Number (each):					
Phases: SingleThree R.P.M.: _	Frequency	(Hz):			
Rated Output (for one unit): Kilov	vatt Kilov				
Rated Power Factor (%): Rated Vol	tage (Volts) Rat	ted Amperes:			
Field Volts: Field Amps:	Motoring pov	wer (kW):			
Cynahranaua Dagatanaa (V'd)	9/ on	K//A book			
Synchronous Reactance (X'd):					
Transient Reactance (X'd):					
Subtransient Reactance (X'd):					
Negative Sequence Reactance (Xs):					
Zero Sequence Reactance (Xo):					
Neutral Grounding Resistor (if applicable):					
I ₂ ² t of K (heating time constant):					
Additional Information:					
INDUCTION GENERATOR DATA					
Rotor Resistance (Rr): ohm	s Stator Resistance (Rs):	ohms			
Rotor Reactance (Xr): ohms	Stator Reactance (Xs): ohms				
Magnetizing Reactance (Xm): ohn	ns Short Circuit Reactance	(Xd"): ohms			
Design letter:	Frame Size:				
Exciting Current:	Temp Rise (deg Cº):				
Reactive Power Required:	_ Vars (no load), Vars	(full load)			
Additional Information:					

PRIME MOVER (Complete all applicable items)	
Unit Number: Type:	
Manufacturer:	
Serial Number: Date of manufact	urer:
H.P. Rates: H.P. Max.: Inertia Consta	nt: lbft ²
Energy Source (hydro, steam, wind, etc.)	
GENERATOR TRANSFORMER (Complete all applicate	ole items)
TRANSFORMER (between generator and utility system	n)
Generator unit number: Date of manufactur	er:
Manufacturer:	
Serial Number:	
High Voltage: KV, Connection: delta wye, Ne	eutral solidly grounded?
Low Voltage: KV, Connection: delta wye, N	eutral solidly grounded?
Transformer Impedance (Z): % on	KVA base
Transformer Resistance (R): % on	KVA base
Transformer Reactance (X): % on	KVA base
Neutral Grounding Resistor (if applicable:	
INVERTER DATA (if applicable)	
Manufacturer: Model	:
Rate Power Factor (%): Rated Voltage (Volts):	Rated Amperes:
Inverter Type (ferroresonant, step, pulse-width modulat	ion, etc.):
Type commutation: forced line	
Harmonic Distortion: Maximum Single Harmonic (%) _	
Maximum Total Harmonic (%)	
Note: Attach all available calculations, test reports, a	and oscillographic prints showing

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

					Page 31
POWER CIRCU	IT BREAK	ER (if ap	plicable)		
Manufacturer:				Model:	
					y (Amperes)
Interrupting ratin	g (Ampere	es):	В	L Rating	
Interrupting med	ium / insula	ating med	dium (ex. Vacı	uum, gas, oil) _	
Control Voltage	(Closing): _	(Volts	s) AC	DC	
Control Voltage	(Tripping):	(Volt	s) AC	DC Batte	ery Charged Capacitor
Close energy:	Spring	Motor	Hydraulic	Pneumatic	Other:
Trip energy:	Spring	Motor	Hydraulic	Pneumatic	Other:
Bushing Current	Transform	ers:	(Max. rat	io) Relay Accu	racy Class:
Multi Ratio?	Multi Ratio? No Yes: (available taps)				
ADDITIONAL IN	FORMATI	ON			
reports, etc., and design of the interest SIGN OFF AREA	d any othe erconnection A grees to pro- interconne	r applical on. ovide the ection. Th	Cooperative to customer s	or documents of	etc.), specifications, test necessary for the proper onal information required nis equipment within the
Applicant	Date				
ELECTRIC COC MORE INFORM		E CONT	ACT FOR AF	PPLICATION S	SUBMISSION AND FOR
Cooperative con Title: Address:	tact: 				
Phone: Fax:					