

Daviess-Martin County REMC

Application for Operation of Customer-Owned Generation

This application should be completed and returned to Daviess-Martin County REMC 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.

PART 1

OWNER / APPLICANT INFORMATION

Name:				
			Zip Code:	
Phone Number:	F	Representative:		
Email Address:	Address:Fax Number:			
TYPE OF GENEI	RATOR (as applicab	le)		
Photovoltaic	Wind _		Microturbine	
Diesel Engine	Gas Er	gine	Combustion Turbine _	
Other				
MODE OF OPER	RATION			
Total Site Load	(kW)			
Residential	Commerci	al	Industrial	
Generator Rating _	(kW) <i>A</i>	Annual Estimated	Generation	(kWh)

PROJECT DESIGN / ENGINEER (ARCHITECT) (as applicable) Company: Mailing Address: City: County: State: Zip Code: Phone Number: _____Representative: _____ Email Address:_____Fax Number:____ ELECTRICAL CONTRACTOR (as applicable) Company: Mailing Address: City:_____County:____State:____Zip Code:_____ Phone Number:______Representative:_____ Email Address: Fax Number: 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:Tot	tal number of unit	ts with listed spe	ecifications on sit	e:		
Manufacturer:						
Type:	Date of manufacture:					
Serial Number (each):				_		
Phases: Single Three Rated Output (for one unit):						
Rated Power Factor (%):	Rated Voltage	e (Volts):	Rated Amper	·es:		
Field Volts:Field Am	nps:	Motoring p	ower (kW):			
Synchronous Reactance (Xd):		% on	k	(VA base		
Transient Reactance (Xd'):		% on	k	VA base		
Sub-transient Reactance (Xd"):		% on	K	VA base		
Negative Sequence Reactance (Xs):	% on	k	VA base		
Zero Sequence Reactance (Xo):		% on	K	VA base		
Neutral Grounding Resistor (if ap	plicable):		_			
I ²² t or K (heating time constant):						
Additional information:						
INDUCTION GENERATO						
Rotor Resistance (Rr):	ohms	Stator Resist	ance (Rs):	ohms		
Rotor Reactance (Xr):	ohms	Stator Reacta	ance (Xs) :	ohms		
Magnetizing Reactance (Xm):	ohms	Short Circuit	Reactance (Xd")	:ohms		
Design letter:		Frame Size:				
Exciting Current:		Temp Rise (d	leg C):			
Reactive Power Required:	Va	rs (no load),	V	ars (full load)		
Additional information:						
PRIME MOVER (Complete a						
Unit Number:Type: _						
Manufacturer:						
Serial Number:	Date	of manufacture				
H.P. Rated:H.P. Ma	ax.:	Inertia Const	ant:	lbft. ²		
Energy Source (hydro, steam, wi	ind, etc.)					

GENERATOR TRANSFORMER (Complete all applicable items)

TRANSFORMER (between generator	and utility system)	
Generator unit number:	Date of manufacture	r:
Manufacturer:	_	
Serial Number:		
High Voltage:KV, Conne	ction: delta wye, Neutral s	solidly grounded?
Low Voltage:KV, Connec	ction: delta wye, Neutral s	solidly g rounded?
Transformer Impedance(Z):	on	KVA base.
Transformer Resistance (R):	% on	KVA base.
Transformer Reactance (X):	% on	KVA base.
Neutral Grounding Resistor (if applical	ole):	
INVERTER DATA (if applicable)		
Manufacturer:		
Rated Power Factor (%):Rat	ed Voltage (Volts):	Rated Amperes:
Inverter Type (ferroresonant, step, pul	se-width modulation, etc): _	
Type commutation: forced li	ne	
Harmonic Distortion: Maximum Single	Harmonic (%)	
Maximum Total I	Harmonic (%)	
Note: Attach all available calculations	, test reports, and oscillogra	ph prints showing
inverter output voltage and cur	rent waveforms.	
POWER CIRCUIT BREAKER	(if applicable)	
Manufacturer:	Model:	
Rated Voltage (kilovolts):	Rated amp	acity (Amperes)
nterrupting rating (Amperes):BIL Rating:		
Interrupting medium / insulating mediu	m (ex. Vacuum, gas, oil)	
Control Voltage (Closing):	(Volts) AC DC	
Control Voltage (Tripping):	(Volts) AC DC	Battery Charged Capacitor
Close energy: Spring Motor H	lydraulic Pneumatic	Other:
Trip energy: Spring Motor H	lydraulic Pneumatic	Other:
Bushing Current Transformers:	(Max. ratio) Relav A	ccuracy Class:
Multi ratio? No Yes: (A		

ADDITIONAL INFORMATION

facility, all applicable elementary diagrams inverters, circuit breakers, protective relays, e applicable drawings or documents necessary	ttach a detailed one-line diagram of the proposed s, major equipment, (generators, transformers, tc.) specifications, test reports, etc., and any other for the proper design of the interconnection. Also e (e.g., combined heat and power, peak shaving,
·	in County REMC with any additional information customer shall operate their equipment within the
Applicant	Date
SUBMIT APPLICATION TO:	

Daviess-Martin County REMC PO Box 430 | 12628 E 75 N Loogootee, IN 47553

Phone: 812.295.4200