SOUTHEASTERN ILLINOIS ELECTRIC COOPERATIVE

Application for Operation of Member-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 Member interface. Every effort should be made to supply as much information as possible.

PART 1:

OWNER/APPLICANT INFORMATION

Generator Rating Expressed In: Circle One AC DC

Owner/Customer						
Name:						
Mailing Address:						
City:	County:	State:	Zip Code:			
Account #		Map Location #:				
Phone Number:	Representative:					
Email Address:	Fax Number:					
TYPE OF GENERA	TOR					
Photovoltaic	Wind	Wind		Microturbine		
Diesel Engine	Gas Engine	Gas Engine		Combustion Turbine		
Other						
The following information	O, GENERATOR RA' on is necessary to help pountended as a commitmen	operly design the Co	ooperative customer inter			
Total Site Load	(kW)					
Residential	Con	nmercial	Industrial			
Generator Rating	(kW)	Annual Estimated	l Generation	(kWh)		

Mode of Operation				
Isolated	Paralleling		Power Export	
PROJECT DESIGN/ENC			able)	
	`	, , , , , , , , , , , , , , , , , , ,	,	
Company:				
Mailing Address:				
City:	County:	State:	Zip Code:	
Phone Number:	I	Representative:		
Email Address:				
ELECTRICAL CONTRA				
	(~,		
Company:				
Mailing Address:				
City:				
Phone Number:				
Email Address:				
Linuii / Iddi C35.	·	ax ivamoer.		
DESCRIPTION OF PRO	DOCED INCTALL	ATION AND ODEI	ATION	
PART 2:				
(This section shall be complet	ted for all generators r	rated 50KW or more)		
(This seemen shall be compress	101 mil genermore i			
SYNCHRONOUS GENERA	_	C '4'41 1' 4 1 '6	· .	
Unit Number:			ications on site:	
Manufacturer: Type:		_Date of manufacture:		
Serial Number (each):				
Phases: Single Three	R.P.M.:		Frequency (Hz):	
Rated Output (for one unit): _ Rated Power Factor (%):		Kilowatt	k	Kilovolt-Ampere
Rated Power Factor (%):	Rated V	oltage (Volts):	Rated Amperes:	
Field Volts:	rield Amps:	Motoring	power (kW):	VVA bass
Synchronous Reactance (Xd):				
Transient Reactance (X'd): Subtransient Reactance (X'd)				
Negative Sequence Reactance				
Zero Sequence Reactance (Xo				
Neutral Grounding Resistor (i				
<u> </u>	/			

I ₂ ² t or K (heating time constar	nt):				
Additional information:					
INDUCTION GENERATO	R DATA				
Rotor Resistance (Rr):		ohms	Stator Resistance (Rs):	ohms	
Rotor Reactance (Xr):		ohms	Stator Reactance (Xs):	ohms ohms	
Magnetizing Reactance (Xm)	:	ohms	Short Circuit Reactance (Xd"):		
Design letter:		_	Frame Size:		
Exciting Current:			Temp Rise (deg C°):		
Exciting Current:		Vars (r	Vars (full load)		
Additional information:					
DDIME MOVED (Complete	all applicable item	a)			
PRIME MOVER (Complete					
Unit Number:	_ 1 ype				
Manufacturer:		Data of	f monufacture:		
LI D. Datad:	⊔ D Мох ·	Date of	f manufacture:Inertia Constant:	1b ft 2	
Energy Source (hydro steem	wind etc.)		inertia Constant.	1011.	
Energy Source (nyuro, steam,	, , , , , , , , , , , , , , , , , , ,				
GENERATOR TRANSFOR	RMER (Complete all	applicable	e items)		
TRANSFORMER (between g			,		
			of manufacturer:		
Manufacturer:					
Serial Number:					
High Voltage:	KV, Connection:	delta	wye, Neutral solidly grounded?		
Low Voltage:	KV, Connection:	delta	wye, Neutral solidly g rounded?		
Transformer Impedance(Z):	′		% onKVA		
Transformer Resistance (R):			% on KVA ba		
Transformer Reactance (X):			% on	KVA base.	
				- 	
INVERTER DATA (if ap	nlicable)				
	piliouoio)				
Manufacturer: Model:					
Rated Power Factor (%):	ted Power Factor (%):Rated Voltage (Volts):Rated Amperes:				
Maximum AC Output:	KW-A	C (•		
Inverter Type (ferroresonar	nt. step. pulse-widtl	h modula	tion, etc):		
mverter Type (refreresement	ii, step, puise with	i iiio daid			
Type commutation: for	ced line				
		onio (0/)			
narmonic Distortion: Maxi	inium Single Harm	ome (%)			
Max	imum Total Harmo	onic (%)			

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

POWER CIRCUIT BREAKER (if applicable)

16 WER CIRCUIT BRI	3/11121 (II)	иррпоцото)				
Manufacturer: Rated Voltage (<i>kilovolts</i>). <i>Interrupting rating (Ampelinterrupting medium / ins</i> Control Voltage (Closing)			Mod	el:	•	
Rated Voltage (kilovolts).	·		Rate	d ampa	icity (Ampe	eres)
Interrupting rating (Ampe	eres):			_BIL F	Rating:	
Interrupting medium / ins	ulating med	ium (ex. Vacuum	, gas, oil)			/
control , ortuge (crossing	<i>,</i> ·	(, ,	0100) 110			
Control Voltage (Tripping	g):	(Vo	olts) AC	DC	Battery	Charged Capacitor
Control Voltage (Tripping Close energy: Spring	Motor	Hydraulic	Pneuma	atic	Other:	
Trip energy: Spring	Motor	Hydraulic	Pneuma	atic	Other:	
Bushing Current Transfor	mers:	(Max	k. ratio) R	elay Ac	curacy Cla	ass:
Multi ratio?	Ves:	(Available taps)				
ADDITIONAL INFORM	MATION					
documents necessary for operating mode (e.g., con END OF PART 2 SIGN OFF AREA						
The Member agrees to preinterconnection. The Men accordance with the Coop from time to time.	nber agrees	that the installation	on and ope	eration o	of this equi	ipment shall be in
Member				Date		
Please send the complete	ed applicati	on to the Coope	rative at t	he add	ress listed	below:

SouthEastern Illinois Electric Cooperative, Inc. 100 Cooperative Way P.O. Box 1001 Carrier Mills, IL 62917 Attention: Engineering Department (800)833-2611

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