### **ATTACHMENT A**

## SOUTHERN ILLINOIS ELECTRIC COOPERATIVE

# Application for Operation of Member Owned Generation

This application should be completed and returned to the Cooperative.

Other

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.

Owner/Member				
Name:				
Mailing Address:				
City:	County:	State:	Zip Code:	
Phone Number:	Representative:			
Email Address:	Fax Number:			
PROJECT DESIGN	/ENGINEERING (ARCH	IITECT) (as applic	cable)	
		_		
_	County:		_	
	Representative:			
Email Address:	Fa			
ELECTRICAL CO	NTRACTOR (as applicabl	le)	••••••	
Company:		License/Regi	stration Number: _	
Mailing Address:			7in Code	
	County:	State:	Zip Code.	
City:			_	
City: Phone Number:	County:	presentative:		
City: Phone Number: Email Address:	County:Re	epresentative:		
City: Phone Number: Email Address:	County:ReFa	presentative: ux Number:		

### ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION INFORMATION

The following information is necessary to help properly design the Cooperative member interconnection.

Total Site Load \_\_\_\_\_\_\_(kW)

Residential \_\_\_\_\_\_\_\_(kW)

Generator Rating \_\_\_\_\_\_\_\_(kW)

Mode of Operation

Isolated \_\_\_\_\_\_\_\_Paralleling \_\_\_\_\_\_\_Power Export \_\_\_\_\_\_\_

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 GENERA	TOR DATA			
Unit Number:			th listed specifications on site	): 
Manufacturer:				
Type:				
Serial Number (each):				
Phases: Single Three	R.P.M.: _		Frequence	cy (Hz):
Rated Output (for one unit):		Kilowat	t	Kilovolt-Ampere
Rated Power Factor (%):	Rated \	Voltage (V	olts):Rated A	mperes:
Field Volts: F	ield Amps:		Motoring power (kW): _	
Synchronous Reactance (Xd):			% on	KVA base
Transient Reactance (Xd):			% on	KVA base
Subtransient Reactance (Xd): _				
Negative Sequence Reactance (Xs): Zero Sequence Reactance (Xo):				KVA base
				KVA base
Neutral Grounding Resistor (if				
I <sub>2</sub> <sup>2</sup> t or K (heating time constan	t):			
Additional information:				
INDUCTION GENERATOR	R DATA			
Rotor Resistance (Rr):		ohms	Stator Resistance (Rs):	ohms
Rotor Reactance (Xr):				
Magnetizing Reactance (Xm):		ohms	Short Circuit Reactance (X	
Design letter:			Frame Size:	
Exciting Current:			Temp Rise (deg C°):	
Reactive Power Required:		Vars (no load),		Vars (full load)
Additional information:				
PRIME MOVER (Complete				
Unit Number:	Type:			
Manufacturer:				
Serial Number:		Date o	f manufacture:	
H.P. Rated:				
Energy Source (hydro, steam,	wind, etc.)	·		
GENERATOR TRANSFOR	MER (Complete al	l applicable		
TRANSFORMER (between ge			,	
Generator unit number:	•	Date of	of manufacturer:	
Manufacturer:				
Serial Number:				
High Voltage:	KV, Connection:	delta	wye, Neutral solidly grou	nded?
Low Voltage:	_ KV, Connection:	delta	wye, Neutral solidly grou	
Transformer Impedance (Z): _			% on	
Transformer Resistance (R):				KVA base.
Transformer Reactance (X):				KVA base.
Neutral Grounding Resistor (if				

INVERTER DATA (if applicable	e)				
Manufacturer:	Model:				
Rated Power Factor (%):	Rated Voltage (Volts): Rated Amperes:				
Inverter Type (ferroresonant, step,	, pulse-width modulation, etc):				
Type commutation: forced	line				
Harmonic Distortion: Maximum S	Single Harmonic (%)				
	otal Harmonic (%)				
	ations, test reports, and oscillographic prints showing inverter output				
POWER CIRCUIT BREAKER	(if applicable)				
Manufacturer:	Model:				
Rated Voltage (kilovolts):	Rated ampacity (Amperes)				
	BIL Rating:				
Interrupting medium / insulating n	nedium (ex. Vacuum, gas, oil)//				
Control Voltage (Closing):	(Volts) AC DC				
	(Volts) AC DC Battery Charged Capacitor				
Close energy: Spring Motor	Hydraulic Pneumatic Other:				
Trip energy: Spring Motor	Hydraulic Pneumatic Other:				
Bushing Current Transformers:	(Max. ratio) Relay Accuracy Class:				
Multi ratio? No Y	'es: (Available taps)				

#### ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, a detailed site plan, 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.

#### SIGN OFF AREA

The member agrees to provide the Cooperative with any additional information required to complete the interconnection. The member shall operate his/her equipment within the guidelines set forth by the Cooperative. The member also acknowledges receipt of Cooperative's Policy 472, INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION and Policy 475, COOPERATIVE PURCHASE OF EXCESS MEMBER OWNED GENERATION CAPACITY, and verifies that he/she has read and understands the contents thereof and by the member's signature below agrees to be legally bound by the contents of Policies 472 and 475, as may be amended in the Cooperative's sole discretion, from time to time.

Applicant (Member)	Date	

#### COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative contact: Michael Logeman

Title: Director of Engineering

Address: P.O. Box 100

7420 US Highway 51 South

Dongola, IL 62926

Phone: 618-827-3555 Fax: 618-827-3585

E-mail: mlogeman@siec.org

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