PLANTERS ELECTRIC MEMBERSHIP CORPORATION

Distributed Generation Interconnection Application

INFORMATION: This information is used by the Cooperative to determine the required equipment configuration for the Member Generator interface. Every effort should be made to supply as much information as possible. Member Generators must not operate their generation facilities in parallel with the Cooperative's system until they have received written authorization for parallel operation from the Cooperative. Unauthorized parallel operation of Member's generating facilities could result in injury to persons and/or damage to equipment or property.

PART 1 - - (To be completed for all Member-Owned Generating Facilities) OWNER/APPLICANT INFORMATION

Owner/Member Name:			
City:	County:	State:	Zip Code:
Phone Number:	Rep	presentative:	
Email Address:		Fax Number:	
PROJECT DESIGN/E	NGINEERING		
Company:			
			Zip Code:
Phone Number:	Rep	presentative:	
Email Address:		Fax Number:	
ELECTRICAL CONT	FRACTOR		
			Zip Code:
Email Address:		Fax Number:	
TYPE OF GENERAT	OR		
Photovoltaic	Wind	Microtur	bine
Diesel Engine	Gas Engine	Combust	ion Turbine
Other			

ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION INFORMATION

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

This information is not intended as a commitment or contract for billing purposes. Total Site Load _____(kW) Commercial Residential _____ Industrial Generator Rating _____(kW) Annual Estimated Generation (kWh) **Mode of Operation** Isolated _____ Paralleling ____ Power Export ____ Maximum Fault Current Contribution: For Three Phase Fault for Line to Ground Fault: 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 - - (To be completed for interconnected generation greater than 10 kW and any isolated (stand-by) generation) (Complete all applicable items. Copy this page as required for additional generators) SYNCHRONOUS GENERATOR DATA Unit Number: Total number of units with listed specifications on site: Type: Date of Manufacture: Serial Number: Single Three RPM: Frequency (Hz): Phases: Rated Output (for each unit): _____ Kilowatts _____ Kilovolt-Amperes Rated Power Factor (%): Rated Volts (Volts): Rated Amperes: Field Volts: _____ Field Amps: _____ Motoring 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 (Xs): _______ % on _____ kVA Base Zero Sequence Reactance (Xo): ______ % on _____ kVA Base Neutral Grounding Resistor (if applicable): I₂² t or K (heating time constant): Additional Information:

INDUCTION GENERATOR DATA Rotor Resistance (Rr): ohms Stator Resistance (Rs): ohms Rotor Reactance (Xr): ohms Stator Reactance (Xs): ohms Magnetizing Reactance (Xm): _____ ohms Short Circuit Reactance (xd''): _____ ohms Design Letter: Frame Size: Exciting Current: Temp Rise (deg C): Reactive Power Required: VARS (no load), VARS (full load) Additional Information: PRIME MOVER Unit Number: Type: Manufacturer: Serial Number: _____ Date of Manufacture: _____ HP Rating: _____ HP Max: ____ Intertia Constant: _____ lb-ft² Energy Source (hydro, steam, wind, etc.) GENERATOR TRANSFORMER (Transformer between generator and utility system) Generator Unit Number:_____ Date of Manufacture: _____ Manufacturer: Serial Number: High Voltage: kV Connection: Delta Wye Neutral Solidly Grounded: Yes No Low Voltage: kV Connection: Delta Wye Neutral Solidly Grounded: Yes No 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 Manufacturer: _____ Model: _____ Manufacturer Contact Name: Phone: Rated Power Factor (%):______ Rated Volts (Volts): _____ Rated Amperes: _____ Inverter Type (Ferroresonant, step, pulse-width modulation, etc.): Commutation Type: Forced Line

Note: Attach all available calculations, test reports, and oscillographic prints showing inverter output

Maximum Total Harmonic (%)

Harmonic Distortion: Maximum Single Harmonic (%)

POWER CIRCUIT BREAKER

Manufacturer:		Model:						
Rated Voltage (k	Rated A	mpacity	(A): _					
Interrupting Ratio	ng (A):	BIL Rating:						· · · · · · · · · · · · · · · · · · ·
Control Voltage	(Closing):			(V)	AC	DC		
Control Voltage	(Tripping): _			(V)	AC	DC	Battery	Capacitor
Close Energy:	Spring	Motor	Hydraulic	Pneu	matic	Other:		
Trip Energy:	Spring	Motor	Hydraulic	Pneumatic Other:				
Bushing Current Transformers:		(max ratio) l	Relay A	ccurac	y Class	i:		
Multi Ratio?	No	Yes: (available	tans)					

ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed on-line diagram of the proposed facility, all applicable elementary diagrams, major equipment, (generators, transformers, inverters, circuit breakers, protective relays, etc.) specifications, test reports, etc., and any other applicable drawing or documents necessary for the proper design of the interconnection. Also describe the project's planned operating mode (ex. Combined heat and power, peak shaving, etc.).

TO CONTACT THE COOPERATIVE FOR MORE INFORMATION:

Cooperative contact: Whitney Zeagler

e-mail: solar@plantersemc.com

Address: P.O. Box 979, 1740 Highway 25 N

Millen, GA 30442

Phone: (478) 982-4722 Ext. 253

Fax: (478) 982-4798

SIGNATURE OF SUBMITTING PARTY

Submitting Party Name				
Submitting Party Signat	ure:	D	Pate:	
CONTACT INFO (Complete only if diffe Mailing Address:		OR SUBMITTING P. oblicant provided)	ARTY	
City:	County:	State:	Zip Code:	
PhoneNumber:		Representative:		
Email Address:				
Fax Number:				