Revision.

Gainesville Regional Utilities (GRU)

Application for Interconnection and Parallel Operation of Customer-Owned Generation

This application should be completed and returned to GRU Conservation Services Representative in order to begin processing the request. See <u>Customer Guidelines for Electric Power Generation</u> and <u>Interconnection</u> for additional information.

INFORMATION: This application is used by GRU to determine the required equipment configuration for the Customer interface. Every effort should be made to supply as much information as possible.

PART 1 Section A. OWNER/APPLICANT INFORMATION Owner/Operator Name:__ Mailing Address:_____ City: State: Zip Code: Phone Number: Representative: Email Address:______ Fax Number:_____ Section B. PROJECT DESIGN/ENGINEERING (ARCHITECT) (as applicable) Mailing Address:_____ City: _____ County: ____ State: Zip Code: Phone Number: ______Representative: _____ Email Address:______ Fax Number:_____ Section C. INSTALLATION CONTRACTOR (as applicable) Company: Mailing Address:_____ City:_____County:____State:____Zip Code:_____ Phone Number:______Representative:_____ Email Address:______ Fax Number:_____ State Contractor License Number (Important) Are Sub-Contractors being used? _____ (Y or N), If yes, List similar information as above on additional sheet(s). **Section D. TYPE OF GENERATION (as applicable)** _____Wind Photovoltaic Microturbine _____ Gas Engine Combustion Turbine Diesel Engine Other Draft document is still undergoing Page 1 of 4 6/29/2007

voltage and current waveforms.

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

Maximum Total Harmonic (%)

SYNCHRONOUS GENERATOR DATA

Unit Number:	_Total number	r of units wi	th listed spec	cifications 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 (%):		Kilow	/att		_Kilovolt-Ampere
Rated Power Factor (%):	Rated	Voltage (V	olts):	Rated Amperes	s:
Field Volts: Field	Amps:		Motorii	ng power (kW):	
Synchronous Reactance (Xd):					
Transient Reactance (X'd):					
Subtransient Reactance (X'd);					
Negative Sequence Reactance (Xs					
Zero Sequence Reactance (Xo):					
Neutral Grounding Resistor (if app					
$\overline{{\rm I}_2^2 {\rm t}}$ or K (heating time constant): _					
Additional information:					
INDUCTION GENERATOR DA					•••••
Rotor Resistance (Rr):		ohms	Stator Res	sistance (Rs):	ohms
Rotor Reactance (Xr):				actance (Xs):	
Magnetizing Reactance (Xm):				cuit Reactance (Xd"): _	
Design letter:			Frame Siz	ze:	
Exciting Current:	·		Temp Ris	e (deg C°):	
Reactive Power Required:		Vars (r	no load),		Vars (full load)
Voltage Regulator: Manufacturer	•		Mod	del	
Additional information:					
PRIME MOVER (Complete all a Unit Number: Ty Manufacturer:	pe:				
Serial Number:		Date of	manufactur	e:	
H.P. Rated: H.P.	. Max.:		Inertia Co	onstant:	lbft. ²
Energy Source (hydro, steam, wind	d, etc.)				
GENERATOR TRANSFORME TRANSFORMER (between gener Generator unit number: Manufacturer:	ator and utility	system) Date of	of manufactu	ırer:	
Serial Number:					
High Voltage: K	V, Connection	n: delta	wye, Neut	tral solidly grounded?	
Low Voltage: K	V, Connection	: delta	wye, Neut	tral solidly g rounded? _	
Transformer Impedance(Z):			% on		KVA base
Transformer Resistance (R):					
Transformer Reactance (X):					
Neutral Grounding Resistor (if app					
POWER CIRCUIT BREAKER			N. T 1 . 1	ı .	
				l:	
Rated Voltage (kilovolts):					
Interrupting rating (Amperes):					
Interrupting medium / insulatin Control Voltage (Closing):	•		•		_/
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July 9, 2007 General Manager Regular Item# 070	0123
Control Voltage (Tripping):(Volts) A	C DC Battery Charged Capacitor
Close energy: Spring Motor Hydraulic Pneum	
POWER CIRCUIT BREAKER (continued)	
	natic Other:
Bushing Current Transformers: (Max. ratio) l	
Multi ratio? No Yes: (Available taps)	
ADDITIONAL INFORMATION	
In addition to the items listed above, please attach a detailed all applicable elementary diagrams, major equipment, (ge breakers, protective relays, etc.) specifications, test reports, e documents necessary for the proper design of the interconne- operating mode (e.g., combined heat and power, peak shaving,	nerators, transformers, inverters, circuit tc., and any other applicable drawings or ction. Also describe the project's planned
END OF PART 2	
SIGN OFF AREA	
The customer agrees to provide GRU with any additional information interconnection. The customer shall complete an Interconnection prior to operation of the referenced DR system.	ction Agreement form in addition to this
equipment within the guidelines set forth by GRU.	
Applicant	Date
	Date
Applicant	
	Date
Applicant GRU Acknowledgement of Receipt	Date
Applicant	Date
Applicant GRU Acknowledgement of Receipt	Date
Applicant GRU Acknowledgement of Receipt GRU CONTACT FOR APPLICATION SUBMISSION AN	Date
Applicant GRU Acknowledgement of Receipt GRU CONTACT FOR APPLICATION SUBMISSION AN GRU contact:	Date
Applicant GRU Acknowledgement of Receipt GRU CONTACT FOR APPLICATION SUBMISSION AN GRU contact: Title:	Date
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