Western Cooperative Electric

Application for Operation of Member-Owned Distributed Generation Systems

This application should be completed as soon as possible and returned to the Cooperative in order to begin processing the request. See Member Requirements for Installation and Interconnection for additional information.

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

MEMBER/APPLIC	ANT INFORMATION		
Name:			
Mailing Address:			
City:	County:	State:	Zip Code:
Daytime Phone:		_Evening Phone:	
WESTERN Account Nu	umber:		
 PROJECT DESIGN	I/ENGINEERING (as a	pplicable)	
PROJECT DESIGN	/ENGINEERING (as a	pplicable)	
PROJECT DESIGN Company: Mailing Address:	I/ENGINEERING (as a	pplicable)	
PROJECT DESIGN Company: Mailing Address: City:	I/ENGINEERING (as a	pplicable) State:	
PROJECT DESIGN Company: Mailing Address: City: Phone Number:	Z/ENGINEERING (as a	pplicable)State:	Zip Code:
PROJECT DESIGN Company: Mailing Address: City: Phone Number:	Z/ENGINEERING (as a	State:Representative:	Zip Code:

City:	County:_		State:	Zip Code:	
Phone Number:		Represer	ntative:		
TYPE OF GENERATO	OR				
Photovoltaic		Wind		Microturbine	
Diesel Engine		Gas Engine		Turbine	
Other					
ESTIMATED LOAI), GENERATO	OR RATING AN	ND MODE	OF OPERATION INFORMAT	IOI
The following informati- intended as a commitme			sign the inter	connection. This information is not	
Total Site Load		Commercial		Industrial	
Generator Rating				Estimated Generation (kW	h)
DESCRIPTION OF	PROPOSED II	NSTALLATIO	N AND OP	PERATION	
				led description of its planned location owing the planned installation.	1 and

PART 2

(Complete all applicable items. Copy this page as required for additional generators)

SYNCHRONOUS GENERATOR DATA

Unit Number:	Total number of units w	vith listed specifications or	ı site:
Manufacturer:			
Type:	Date o	f manufacture:	
Serial Number (each):			
Phases: Single Three	R.P.M.:	Freq	uency (Hz):
Rated Output (for one unit):	Kilo	watt	Kilovolt-Ampere
Rated Power Factor (%):	Rated Voltage (Volts):Rate	ed Amperes:
Field Volts: Field A	mps:	Motoring power (kW	V):
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 appli			
I_2^2 t or K (heating time constant):			
Additional information:			
INDUCTION GENERATOR DATE	ГΑ		
Rotor Resistance (Rr):	ohms	Stator Resistance (Rs):	ohmso
Rotor Reactance (Xr):	ohms	Stator Reactance (Xs):	ohms
Magnetizing Reactance (Xm):	ohms	Short Circuit Reactand	ee (Xd"):ohms
Design letter:		Frame Size:	
Exciting Current:		Temp Rise (deg C°): _	
Reactive Power Required:	Vars (1	no load),	Vars (full load
Additional information:			

PRIME MOVER (Complete all appl	icable items)			
Unit Number:Type: _				_
Manufacturer:				
Serial Number:	Date of	manufacturer:		
H.P. Rated: H.P. Ma	ıx.:	Inertia Constant	:: <u> </u>	lbft. ²
Energy Source (hydro, steam, wind, et	tc.)			
		. – – – –		
GENERATOR TRANSFORMER (Complete all applicable	e items)		
TRANSFORMER (between generator		,		
Generator unit number:	Date o	f manufacturer:		
Manufacturer:				
Serial Number:				
High Voltage:KV, C	Connection: delta	wye, Neutral so	lidly grounded?	
Low Voltage:KV, C	Connection: delta	wye, Neutral so	lidly g rounded?	
Transformer Impedance(Z):		% on		KVA base.
Transformer Resistance (R):		% on		KVA base.
Transformer Reactance (X):		% on		KVA base.
Neutral Grounding Resistor (if applica	able):			
		. – – – –		
INVERTER DATA (if applicable	2)			
Manufacturer:		Model	:	
Rated Power Factor (%):	Rated Voltage (V	olts):	Rated Amperes:	
Inverter Type (ferroresonant, step,	pulse-width modulat	ion, etc):		
Type commutation: forced	line			

Harmonic Distortion: Maximum Single Harmonic (%)	
Maximum Total Harmonic (%)	
Note: Attach all available calculations, test reports, and gracurrent waveforms.	
POWER CIRCUIT BREAKER (if applicable)	
Manufacturer: N	Model:
Rated Voltage (kilovolts):F	Rated ampacity (Amperes)
Interrupting rating (Amperes):	BIL Rating:
Interrupting medium / insulating medium (ex. Vacuum, gas, o	oil)/
Control Voltage (Closing):(Volts)	AC DC
Control Voltage (Tripping):(Volts)	AC DC Battery Charged Capacitor
Close energy: Spring Motor Hydraulic Pner	umatic Other:
Trip energy: Spring Motor Hydraulic Pner	umatic Other:
Bushing Current Transformers: (Max. ratio)	Relay Accuracy Class:
Multi ratio? No Yes: (Available taps)	
ADDITIONAL INFORMATION	
ADDITIONAL INFORMATION	

In addition to the items listed above, please attach a detailed one-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 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.

END OF PART 2

			h any additional information required to complete the pment within the guidelines set forth by the
Applicant Signature			Date
Printed Name			
Street Address			
City	State	Zip	
PLEASE SUBMIT	YOUR APPI	LICATION TO	OUR Member Services Manager AS FOLLOWS:
Manager Member Se Western Cooperative 635 s. 13 TH St. WaKeeney, Kansas 6 785-743-5561 (phone nolann@westerncoop	Electric 57672		