LEVEL 2-4 INTERCONNECTION REQUEST APPLICATION FORM

(For Distributed Generation Facilities 10 MVA or less in the CIPCO ("G&T") area)

INSTRUCTIONS:

- 1. *Indicates required information.
- 2. Mail completed form with application fee (see page 3) to Midland Power Cooperative ("Cooperative").

Phone No. <i>(Evening)</i> CONTACT INFOR Name) Phone No. <i>(Evening)</i>	Facsimile No.	* Contact Name * Email Add rent from Member-Consu Contact Name	mer Contact Infon	*Zip
CONTACT INFOR	Facsimile No.	rent from Member-Consu	ress mer Contact Infon	
CONTACT INFOR	MATION <i>(If diffe</i>	rent from Member-Consu	mer Contact Infon	mation)
Name)				mation)
	City	Contact Name	1 Photo	
Phone No. <i>(Evening)</i>	City	<u> </u>	*Ctoto	
Phone No. (Evening)			*State	*Zip
	Facsimile No.	Email Addre	ess	<u> </u>
FACILITY LOO	CATION (If differ	ent from information abov	re)	
* Facility Address			*State	*Zip
e Account Number	r of Facility Site <i>(exis</i>	ting member-consumers)	Meter No. (existing	member-consumer
EQ	UIPMENT CON	ITRACTOR		
		* Contact Name		
	* City		*State	*Zip
Phone No. (Evening)	Facsimile No.	* Email Add	ress	
ELECTRICAL CON	TRACTOR (If dia	ferent from Equipment Co	ontractor)	
		* Contact Name		
* Mailing Address * Ci			*State	*Zip
Phone No. (Evening)	Facsimile No.	* Email Add	ress	
APPLICANT	OWNERSHIP			
	e Account Numbe e EQ Phone No. (Evening) ELECTRICAL CON Phone No. (Evening) APPLICANT	City e e Account Number of Facility Site (exist EQUIPMENT CON City Phone No. (Evening) Facsimile No. ELECTRICAL CONTRACTOR (If din City Phone No. (Evening) Facsimile No. APPLICANT OWNERSHIP I	City Account Number of Facility Site (existing member-consumers) EQUIPMENT CONTRACTOR Contact Name Contact Name City Phone No. (Evening) Facsimile No. Contact Name Contact Nam	e Account Number of Facility Site (existing member-consumers) Meter No. (existing EQUIPMENT CONTRACTOR * Contact Name * City * State Phone No. (Evening) Facsimile No. * Email Address ELECTRICAL CONTRACTOR (If different from Equipment Contractor) * Contact Name * City * Contact Name * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * City * State Phone No. (Evening) Facsimile No. * Email Address Question Yes No Applicable

THIRD PARTY INFORMATION (Only complete this section if the facility is to be located on the premises of someone other than the applicant)					
Location of Proposed Facility	Name of Customer at said location				
* Mailing Address		* City			
* Phone No. <i>(Daytime)</i>	Phone No	. (Evening)	*State	*Zip	

ELECTRIC SERVICE INFORMATION FOR MEMBER-CONSUMER FACILITY					
WHERE GENERATOR WILL BE INTERCONNECTED					
*Capacity (Service Entrance): (Amps) Voltage: (Volts) * Type of S					ree-Phase
* If three-phase transformer, indicate type:				* Transformer Size	*Impedance
Primary Winding: Wye Delta Secondary Winding: Wye Delta					

* INTENT OF GENERATION (check one)
Offset Load (Unit will operate in parallel, but will not export power to Cooperative or G&T) (If this option is selected, neither the Cooperative nor the G&T will purchase any portion of the generation facility output)
Self-Use and Sales to the Cooperative (or G&T) (Unit will operate in parallel and may export and sell excess power to Cooperative (or G&T) pursuant to the Cooperative's tariff and a separate power purchase agreement to be executed by the parties)
Wholesale Market Transaction (Unit will operate in parallel and participate in MISO, SPP, or other wholesale power markets pursuant to separate requirements and agreements with MISO, SPP, or other transmission providers, and applicable rules of the Federal Energy Regulatory Commission)
Back-up Generation (Units that temporarily operate in parallel with the electric distribution system for more than 100 milliseconds) (Note: Back-up units that do not operate in parallel for more than 100 milliseconds do not need an interconnection agreement.)
Sale of generation output to interconnected member-consumer upon whose premise the facility is located and export and sell any excess power to the Cooperative (or G&T), which sales may require a separate point of interconnection, metering, and power purchase agreement.
Other: (Please Explain):

*GENERATOR AND PRIME MOVER INFORMATION							
Energy Source							
□ Wind □ Solar □ Process Byproduct □ Biomass □ Hydro □ Oil □ Natural Gas □ Coal □ Other							
If Solar: Number of Inverters Number of Panels Tilt (degrees) Azimuth (180° is South facing)							
Array Type: 🗌 Fixed 🛛 Single Axis 🗍 Dual Axis							
Energy Converter Type							
Wind Turbine Photovoltaic Cell Fuel Cell Reci	procating Engine 🛛 🗍 O	ther					
Generator #1 Size: Generator #1 Nameplate Rating (AC):	Generator #2 Size:	Generator #2 Nameplate Rating (AC):					
(kW) (kVA) (kW)	(kW) (kV	A)(KW)					
Generator #3 Size: Generator #3 Nameplate Rating (AC):	Total Number of Units:	Total Capacity of All Generators:					
(kW) (kVA) (kW)		(kW) (kVA)					
Disconnection Device: Identify type and location of disconnection device:							
Is the generation facility a qualifying facility as defined under Public Utilities	Regulatory Policy Act (18 Ch	R Part 292, Subpart B)?					
🗌 Yes 🔲 No							

* REQ	UESTED PROCEDURE UNDER WHICH TO EVALUATE INTERCONNECTION REQUEST (check one)
Please ind Cooperati	dicate below which review procedure applies to the interconnection request. The review procedure used is subject to confirmation by the ve.
	Level 2 - Lab-certified interconnection equipment with an aggregate electric nameplate capacity less than or equal to 150 kVA. Lab-certified means the same as defined in Iowa Utilities Commission Chapter 45 rules on Electric Interconnection of Distributed Generation Facilities (199 IAC,45.1). (Application fee is \$250 plus \$1.00 per kVA)
	Level 3 - Distributed generation facility does not export power. Nameplate capacity rating is less than or equal to 50 kVA if connecting to area network or less than 150 kVA if connecting to a radial distribution feeder. (Application fee amount is \$500 plus \$2.00 per kVA.)
	Level 4 - Nameplate capacity rating is less than or equal to 10 MVA and the distributed generation facility does not qualify for a Level 1, Level 2, or Level 3 review, or the distributed generation facility has been reviewed but not approved under a Level 1, Level 2, or Level 3 review. (Application fee amount is \$1,000 plus \$2.00 per kVA, to be applied toward any subsequent studies related to this application.)
	scriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to inistrative Code Chapter 15, Midland's tariff and Midland's interconnection agreement.

DISTRIBUTED GENERATION FACILITY INFORMATION

Commissioning Test Date:	(If the Commissioning Test Date changes, the interconnected member- is aware of the changed date. Notice must be at least 15 business days prior to the test date.)						
List interconnection components/systems to be used in the distributed generation facility that are lab-certified.							
*Component/System	NRTL Providing Label and Listing						
Please provide copies of the manufacturer brochures	s or technical specifications.						

*ENERGY PRODUCTION EQUIPMENT/INVERTER INFORMATION							
		Synchronous	Other			_	
Rating		Rating		*Rated Voltage		* Rated Current	
	(kW)		(kVA)		Volts		Amps
* System Type Tested? (Total System): Yes No (attach product literature)							

		*FOR SYNCHRONOU	S MACHINE	S		
Note: Contact Cooper	rative to determine if al	I the information requested in this sec	tion is required f	or the proposed d	istributed generation facility.	
Manufacturer:						
* Model No:		* Version No.			he Saturation Curve and Vee Curve Non-Salient	
Torque (lb-ft)	Rated RPM	Field Amperes	nerator voltage a	nd current and	% PF over-excited	
Type of Exciter		Output Power of Exciter	T	ype of voltage reg	julator	
Locked Rotor Current	(Amps)	Synchronous Speed (RPM)	Winding	Connection	Minimum Operating Frequency/Time	
Generator Connection						
· <u>·</u> ··································	Delta	Wye			Wye Grounded	
Direct-axis Synchronous Reactance (Xd)		Direct-axis Transient Reactance	ce (X'd)	Direct-axis Sub-Transient Reactance (X'd)		
(ohms)			_ (ohms)	(ohms)		
Negative Sequence Reactance		Zero Sequence Reactance	Zero Sequence Reactance		Natural Impedance or Grounding Resister (if any)	
·	(ohms)		(ohms)		(ohms)	

*FOR INDUCTION MACHINES							
Note: Contact Cooperative to determine if all the information requested in this section is required for the proposed distributed generation facility.							
Manufacturer: Model No.							
* Version No. Locked Rotor Current (Amps)							
Rotor Resistance (Rr)	Exciting Current		Rotor Resistance (Xr)		Rea	active Power Required	
(ohms))(Amps)		(ohms)				
Magnetizing Reactance (Xm)	VARS (No Loa	d)	Stator Resistance (Rs)		VAF	RS (Full load)	
(ohms)			_		_(ohms)		
Stator Reactance (Xs)		Short Circuit Reacta	ance (Xd) Phases				
(ohm	(ohms)		(ohms)		Phase 🗌 Three-Phase		
Frame Size		Design Letter					Temp Rise (°C)

REVERSE POWER RELAY INFORMATION (LEVEL 3 REVIEW ONLY)						
Manufacturer:		Model No.				
Relay Type:	Reverse Power Setting	Reverse Power Time Delay <i>(if any)</i>				

*FOR INVERTER-BASED MACHINES							
Inverter Information							
Manufacturer: Model No.				No.			
Type Rated Output							
Forced Commutated Line CommutatedWatts				Watts	tsVolts		
Efficiency (%)		Power Factor (%)		Inverter UL 1741 Listed			
			□ Yes □ No				
	5.00	DC Sou	rce/Pr	ime Move	er		
Rating	Rating		Rated	d Voltage		Open Circuit Voltage (if applicable)	
(kW)		(kVA)			Volts	Volts	
Rated Current (Amps)			Short C	Circuit Curre	nt <i>(if applicable)</i> (An	nps)	

*OTHER FACILITY INFORMATION		
One-Line Diagram - A basic drawing of an electric circuit in which one or more conductors are represented by a single line and each electrical device and major component of the installation, from the generator to the point of interconnection, are noted by symbols.		
One-Line Diagram attached: 🗌 Yes		
Plot Plan - A map or sketch showing the distributed generation facility's location in relation to streets, alleys, or other geographic markers (i.e. section pin, corner pin, buildings, permanent structures, etc.).		
Plot Plan attached: 🗌 Yes		

*INTERCONNECTED MEMBER-CONSUMER SIGNATURE			
I hereby certify that all of the information provided in this Interconnection Request Application Form is true.			
Applicant Signature (signature must reflect Contact Name under section Interconnection Applicant Contact Information)		Date	
Printed Name	Title		
An application fee is required before the application can be processed. Please verify that the appropriate fee is included with the application (see page 2):	Amount \$		

FOR COOPERATIVE USE ONLY			
Date Received	Project Location No.		
*COOPERATIVE ACKNOWLEDGEMENT			
Receipt of the application fee, if any, is acknowledged by the signature below. Cooperative has determined that the interconnection request is complete. Interconnection of the distributed generation facility is conditionally approved contingent upon the terms and conditions of this Application and its applicable Interconnection Agreement, the return of the attached Certificate of Completion, duly executed verification of electrical inspection and successful final inspection by Cooperative.			
Cooperative Representative's Signature		Date	
Printed Name	Title		

Note: Nothing in this Application, in the Interconnection Agreement, or in Cooperative's tariffs shall be construed to guarantee a particular price or rate for any period of time for an interconnected member-consumer seeking services pursuant to this Application. In the event the tariff rate applicable to operations or requirements of an interconnected member-consumer seeking services pursuant to this Application is modified for such rate class, such new rate shall be applicable to the interconnected member-consumer.

There is no net billing option available for new interconnections within the cooperative service territory.

Certain metering functionality may be unavailable depending on Member-consumer's current installation.