LEVEL 1
INTERCONNECTION REQUEST APPLICATION FORM AND DISTRIBUTED GENERATION INTERCONNECTION AGREEMENT
(For Lab-Certified Inverter-Based Distributed Generation Facilities 20 kVA or less)

INSTRUCTIONS:

1. ***Indicates required information.**
2. Mail completed form with $125 application fee to the appropriate utility company. If the utility performs a witness test as specified under 199 IAC 45.5(10), the utility may charge the interconnected customer an additional cost-based fee of no more than $125.

INTERCONNECTION CUSTOMER CONTACT INFORMATION

*Owner / Company *(Legal Entity Name)*			*Contact Name	
*Mailing Address			*City	*State / *Zip
*Phone No. *(Daytime)*	Phone No. *(Evening)*	Facsimile No.	*Email Address	

ALTERNATE CONTACT INFORMATION *(if different from Customer Contact Information)*

*Owner/Company *(Legal Entity Name)*			*Contact Name	
*Mailing Address			*City	*State / *Zip
*Phone No. *(Daytime)*	Phone No. *(Evening)*	Facsimile No.	*Email Address	

EQUIPMENT CONTRACTOR

*Name			*Contact Name	
*Mailing Address			*City	*State / *Zip
*Phone No. *(Daytime)*	Phone No. *(Evening)*	Facsimile No.	*Email Address	

ELECTRICAL CONTRACTOR *(if different from Equipment Contractor)*

Name			Contact Name	
Mailing Address			City	State / Zip
Phone No. *(Daytime)*	Phone No. *(Evening)*	Facsimile No.	Email Address	
License No. *(if applicable)*			Active License? *(if applicable)* ◯ YES ◯ NO	

ELECTRIC SERVICE INFORMATION FOR CUSTOMER FACILITY WHERE GENERATOR WILL BE INTERCONNECTED

*Existing Capacity *(Service Entrance)* (Amps)	*Proposed Capacity *(Service Entrance)* (Amps)	Voltage (Volts)	*Type of Service ◯ Single Phase ◯ Three Phase ◯ Breaker - Existing Panel ◯ Line Side Tap with Fuse ◯ Inside Sealed Enclosure

If 3 Phase Transformer, indicate type: *Primary* Winding ◯ Wye ◯ Delta *Secondary* Winding ◯ Wye ◯ Delta	Transformer Size	Impedance

*Does this application require a group interconnection study? ◯ YES ◯ NO

*Is this project an expansion of a current distributed generation facility? ◯ YES ◯ NO

*INTENT OF GENERATION *(check one)*

◯	Net Metering (Unit will operate in parallel and will export power to utility pursuant to Iowa Utilities Board rule 199 IAC 15.11(5) and the utility's net metering, net billing, or inflow/outflow tariff).
◯	Offset Load (Unit will operate in parallel and may export without net metering or without selling excess power and energy pursuant to Iowa Utilities Board rule 199 IAC 15.5 and the utility's tariff).
◯	Self-Use and Sales to the Utility (Unit will operate in parallel and may export and sell excess power to utility pursuant to Iowa Utilities Board rule 199 IAC 15.5 and the utility's tariff).
◯	Back-Up Generation (Units that temporarily operate in parallel with the electric distribution system for more than 100 milliseconds. Units that temporarily operate in parallel with the electric distribution system for 100 milliseconds or less are outside the scope of Chapter 45 Interconnection. Contact the utility for applicable interconnection procedures).
◯	Other (Please explain.)

APPLICANT OWNERSHIP INTEREST *(check one)*

◯ Owner ◯ Lease ◯ 3rd Party PPA ◯ Tenant ◯ Other (Please explain)

*DISTRIBUTED GENERATION FACILITY INFORMATION

*Facility Address or Latitude and Longitude	*City	*State	*Zip

*Utility Serving Facility Site	Account No. of Facility Site *(existing utility customers)*	*Meter No. (*existing utility customers)*

*Energy Source/Converter

☐ Wind Turbine ☐ Solar Photovoltaic Cell ☐ Biomass ☐ Hydro ☐ Diesel Engine ☐ Natural Gas ☐ Fuel Oil ☐ Storage - Specify type

☐Other

***Commissioning Test Date:** *(If the Commissioning Test Date changes/unknown, the interconnection customer must inform the utility as soon as aware of the changed/known date, but no later than 15 business days.)*

*INFORMATION FOR INVERTER-BASED FACILITIES

Inverter Information (Attach manufacturer's technical specifications and label information from a nationally recognized testing laboratory, e.g. UL.)

Manufacturer / Model	Quantity	Inverter UL1741 Listed	Continuous Rated Output	Number of Phase	Power Factor	Efficiency
Manufacturer / Model	Quantity	Inverter UL1741 Listed ◯Yes ◯No	Continuous Rated Output kW_{AC} $Volts_{AC}$	Number of Phase ◯1 ◯3	Power Factor %	Efficiency %
Manufacturer / Model	Quantity	Inverter UL1741 Listed ◯Yes ◯No	Continuous Rated Output kW_{AC} $Volts_{AC}$	Number of Phase ◯1 ◯3	Power Factor %	Efficiency %

*DC Source/Prime Mover

Solar Module #1 Manufacturer / Model	Quantity	Power Rating
		$Watts_{DC}$
Solar Module #2 Manufacturer / Model	Quantity	Power Rating
		$Watts_{DC}$

*Solar Module Orientation

Type	Tilt (degrees)	Azimuth (180º = south)	Solar Module #1 Quantity	Solar Module #2 Quantity
☐ Fixed ☐ Single Axis ☐ Dual Axis				
☐ Fixed ☐ Single Axis ☐ Dual Axis				
☐ Fixed ☐ Single Axis ☐ Dual Axis				
☐ Fixed ☐ Single Axis ☐ Dual Axis				

*Inverter/Solar Module Combinations (Use a separate row for each unique combination of Inverter and Solar Modules)

Inverter Information (Attach manufacturer's technical specifications and label information from a nationally recognized testing laboratory, e.g. UL.)

Inverter Type: Quantity:	Solar Module #1 Quantity	Solar Module #2 Quantity	kW_{DC} Connected to each inverter: kW_{DC}	Continuous Rated Output of each inverter: kW_{AC}	Inverter is DC Limited ($kW_{DC} < kW_{AC}$)
◯String ◯Microinverter					◯Yes ◯No
◯String ◯Microinverter					◯Yes ◯No
◯String ◯Microinverter					◯Yes ◯No
◯String ◯Microinverter					◯Yes ◯No

*Aggregate kW_{AC} Power Output of all Inverters Constituting Distributed Generation Facility

Aggregate kW_{AC} power output of **first** inverter/solar module combination listed above (Quantity of inverters multiplied by either the Continuous Rated Output of each inverter (not DC limited) ***OR*** kW_{DC} Connected to each inverter (DC Limited)	kW_{AC}
Aggregate kW_{AC} power output of **second** inverter/solar module combination listed above (Quantity of inverters multiplied by either the Continuous Rated Output of each inverter (not DC limited) ***OR*** kW_{DC} Connected to each inverter (DC Limited)	kW_{AC}
Aggregate kW_{AC} power output of **third** inverter/solar module combination listed above (Quantity of inverters multiplied by either the Continuous Rated Output of each inverter (not DC limited) ***OR*** kW_{DC} Connected to each inverter (DC Limited)	kW_{AC}
Aggregate kW_{AC} power output of **fourth** inverter/solar module combination listed above (Quantity of inverters multiplied by either the Continuous Rated Output of each inverter (not DC limited) ***OR*** kW_{DC} Connected to each inverter (DC Limited)	kW_{AC}
Aggregate kW_{AC} Power Output of ALL Inverters Constituting Distributed Generation Facility	kW_{AC}

*INSURANCE DISCLOSURE

The attached terms and conditions contain provisions related to liability and indemnification and should be carefully considered by the interconnection customer. The interconnection customer shall carry general liability insurance coverage, such as, but not limited to, homeowner's insurance. The interconnection customer shall provide the utility with proof that it has a current homeowner's insurance policy or other general liability policy.

Proof of insurance must include:

1. Facility Address
2. Interconnection Customer as insured
3. General Liability Coverage

Proof of Homeowner's or General Liability Insurance attached ☐ YES

*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.). The map or sketch should also denote the location of the electric meter and disconnect used to isolate the distributed generation facility.

Plot Plan attached ☐ YES

*CUSTOMER SIGNATURE

I hereby certify that: (1) I have read and understand the terms and conditions, which are attached hereto by reference; (2) I hereby agree to comply with the attached terms and conditions; and (3) to the best of my knowledge, all of the information provided in this application request form is complete and true.

Applicant Signature *(signature must reflect Contact Name under section Interconnection Applicant Contact Information)*	Date

Printed Name	Title

This Application Form and Interconnection Agreement is comprised of: (1) the Level 1 Standard Application Form and Interconnection Agreement; (2) the Attachment of Terms and Conditions for Interconnection; and 3) the Certificate of Completion, which shall be completed and returned to the utility when installation is complete and final electric inspector approval has been obtained.

NOTE: If the Certificate of Completion is not completed and returned to the utility within 12 months following the utility's dated conditional agreement to interconnect below, this Application Form and Interconnection Agreement will automatically terminate and be of no further force and effect.

FOR UTILITY USE ONLY

Date Received:	Project ID:

CONDITIONAL AGREEMENT TO INTERCONNECT DISTRIBUTED GENERATION FACILITY

Receipt of application fee is acknowledged and, by its signature below, the utility has determined the interconnection request is complete. Interconnection of the distributed generation facility is conditionally approved contingent upon the attached terms and conditions of this Agreement, the return of the attached Certificate of Completion, duly executed verification of electrical inspection and successful witness test.

Utility Representative's Signature	Date

Printed Name	Title

Submit completed form to:

MidAmerican Energy Company
Attn: Private Generation
P.O. Box 4350
Davenport, Iowa 52808-9986

PrivateGeneration@midamerican.com
Fax: 563-336-3568

ATTACHMENT
LEVEL 1 DISTRIBUTED GENERATION INTERCONNECTION AGREEMENT

Terms and Conditions for Interconnection

1. **Construction of the Distributed Generation Facility:** The interconnection customer may proceed to construct (including operational testing not to exceed 2 hours) the distributed generation facility, once the conditional Agreement to interconnect a distributed generation facility has been signed by the utility.
2. **Final Interconnection and Operation:** The interconnection customer may operate the distributed generation facility and interconnect with the utility's electric distribution system after all of the following have occurred:
   a. Electrical Inspection: Upon completing construction, the interconnection customer shall cause the distributed generation facility to be inspected by the local electrical inspection authority, who shall establish that the distributed generation facility meets local code requirements.
   b. Certificate of Completion: The interconnection customer shall provide the utility with a copy of the Certificate of Completion with all relevant and necessary information fully completed by the interconnection customer, as well as an inspection form from the local electrical inspection authority demonstrating that the distributed generation facility passed inspection.
   c. The utility has completed its witness test as per the following:
      i. The interconnection customer shall provide the utility at least 15 business days' notice of the planned commissioning test for the distributed generation facility. Within 20 business days after the commissioning test, the utility may, upon reasonable notice and at a mutually convenient time, conduct a witness test of the distributed generation facility to ensure that all equipment has been appropriately installed and operating as designed an in accordance with the requirements of IEEE 1547.
      ii. If the utility does not perform the witness test within the 20 business days after the commissioning test or such other time as is mutually agreed to by the Parties, the witness test is deemed waived, unless the utility cannot do so for good cause. In these cases, upon utility request, the interconnection customer shall agree to another date for the test within ten business days after the original scheduled date.
   d. Executed Certificate of Completion: The utility has signed, executed and transmitted to the interconnection customer the Certificate of Completion provided by the interconnection customer in 2b.
3. **IEEE 1547:** The distributed generation facility shall be installed, operated and tested in accordance with the requirements of the Institute of Electrical and Electronics Engineers Inc. IEEE, 3 Park Avenue, New York, NY 10016-5997, Standard 1547 (2018) "Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power System Interfaces," as well as any applicable federal, state, or local laws, regulations, codes, ordinances, orders, or similar directives of any government or other authority having jurisdiction.
4. **Access:** The utility must have access to the isolation device or disconnect switch, meter and metering equipment of the distributed generation facility at all times. When practical, the utility shall provide notice to the customer prior to using its right of access.
5. **Metering:** Any required metering shall be installed pursuant to the utility's metering rules filed with the Iowa Utilities Board under subrule 199 IAC 20.2(5).
6. **Disconnection:** The utility may disconnect the distributed generation facility upon any of the following conditions, but must reconnect the distributed generation facility once the condition is cured:
   a. For scheduled outages, provided that the distributed generation facility is treated in the same manner as utility's load customers;
   b. For unscheduled outages or emergency conditions;
   c. If the distributed generation facility does not operate in a manner consistent with the Agreement of the applicable requirements of 199 IAC chapter 15 or 45;
   d. Improper installation or failure to pass the witness test;
   e. If the distributed generation facility is creating a safety, reliability, or power quality problem;
   f. The interconnection equipment used by the distributed generation facility is delisted by the National Recognized Testing Laboratory that provided the listing at the time the interconnection was approved;
   g. Unauthorized modifications of the interconnection facilities or the distributed generation facility; or
   h. Unauthorized connection to the utility's electric system.
7. **Indemnification:** The interconnection customer shall indemnify and defend the utility and the utility's directors, officers, employees, and agents from all claims, damages and expenses, including reasonable attorney's fees, to the extent resulting from the interconnection customer's negligent installation, operation, modification, maintenance or removal of its distributed generation facility or interconnection facilities, or the interconnection customer's willful misconduct or breach of this Agreement. The utility shall indemnify and defend the interconnection customer and the interconnection customer's directors, officers, employees, and agents from all claims, damages and expenses, including reasonable attorney's fees, to the extent resulting from the utility's negligent installation, operation, modification, maintenance or removal of its interconnection facilities or electric distribution system, or the utility's willful misconduct or breach of this Agreement.
8. **Insurance:** The interconnection customer shall provide the utility with proof that it has a current homeowner's insurance policy or other general liability policy.
9. **Limitation of Liability:** Each Party's liability to the other Party for any loss, cost, claim, injury, liability or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, incidental,

special, consequential, or punitive damages of any kind whatsoever, provided that in no such even shall death, bodily injury or third party claims be construed as an indirect or consequential damages.

10. **Termination:** The Agreement will remain in effect until terminated and may be terminated under the following conditions:
    a. By interconnection customers - The interconnection customer may terminate this interconnection Agreement by providing written notice to the utility. If the interconnection customer ceases operation of the distributed generation facility, the interconnection customer must notify the utility.
    b. By the utility - The utility may terminate this Agreement without liability to the interconnection customer if the interconnection customer fails to remedy a violation of the terms of this Agreement within 30 calendar days after notice, or such other date as may be mutually agreed to in writing prior to the expiration of the 30 calendar days remedy period. The termination date may be no less than 30 calendar days after the interconnection customer receives notice of its violation from the utility.
11. **Modification of Distributed Generation Facility:** The interconnection customer must receive written authorization from the utility before making any changes to the distributed generation facility that could affect the utility's distribution system. If the interconnection customer makes such modifications without the utility's prior written authorization, the utility shall have the right to disconnect the distributed generation facility.
12. **Permanent Disconnection:** In the event the Agreement is terminated, the utility shall have the right to disconnect its facilities or direct the interconnection customer to disconnect its distributed generation facility.
13. **Disputes:** Each Party agrees to attempt to resolve all disputes regarding the provisions of this Agreement that cannot be resolved between the two Parties pursuant to the dispute resolution provisions found in Iowa Utilities Board chapter 45 rules on Electric Interconnection of Distributed Generation Facilities (199 IAC 45.12).
14. **Governing Law, Regulatory Authority, and Rules:** The validity, interpretation, and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of Iowa. Nothing in the Agreement is intended to affect any other agreement between the utility and the interconnection customers.
15. **Survival Rights:** This Agreement shall remain in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.
16. **Assignment/Transfer of Ownership of the Distributed Generation Facility:** This Agreement shall terminate upon the transfer of ownership of the distributed generation facility to a new owner, unless the transferring owner assigns the Agreement to the new owner, the new owner agrees in writing to the terms of this Agreement, and the transferring owner so notifies the utility in writing prior to the transfer of ownership.
17. **Definitions:** Any term used herein and not defined shall have the same meaning as the defined terms used in Iowa Utilities Board chapter 45 rules on Electric Interconnection of the Distributed Generation Facilities (199 IAC 45.1).
18. **Notice:** The Parties may mutually agree to provide notices, demands, comments or request by electronic means such as E-mail. Scanned signatures are acceptable, so long as the documents are legible and not distorted. Absent agreement to electronic communication, or unless otherwise provided in the Agreement, any written notice, demand or request required or authorized in connection with this Agreement shall be deemed properly given with receipt is confirmed after the notices are delivered in person, delivered by recognized national courier service, or sent by first-class mail, postage prepaid, return receipt requested to the person specified below:
    - **If Notice is to Interconnection Customer:** Use the contact information provided in the interconnection customer's application. The interconnection customer is responsible for notifying the utility of any change in the contact party information, including change of ownership.
    - **If Notice is to Utility:** Use the contact information provided below. The utility is responsible for notifying the interconnection customer of any change in the contact party information.

Utility Contact Information			
Utility Company Name MidAmerican Energy Company	Attention Private Generation		
Mailing Address P.O. Box 4350	City Davenport	State IA	Zip 52808
Phone No. 877-815-0010	Facsimile No. 563-336-3568	Email Address PrivateGeneration@midamerican.com	

19. **Interruptions:** The utility is not responsible for any lost opportunity or other costs incurred by the interconnection customer as a result of an interruption of service.