

























Franklin Rural Electric Cooperative Section 25 COGENERATION AND SMALL POWER PRODUCTION  
Electric Tariff Original Sheet No. 75  
Filed with Iowa Utilities Board Sheet No. \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_  
License number (if applicable): \_\_\_\_\_  
Active License? (if applicable) Yes \_\_\_ No \_\_\_

Intent of Generation

Please explain the intended use of the generation to be produced by the facility:

- 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 and Attachment 2 is not applicable)
- Self-Use and Sales to the G&T (Unit will operate in parallel and may export and sell excess power to G&T pursuant to the Cooperative’s tariff, Cooperative’s and G&T’s Joint PURPA Implementation Plan, and the terms set forth in Attachment 2) [Cooperative and G&T have developed a net metering option for certain facilities as described in Attachment 2.]
- Sell all output to the G&T pursuant to following special rate (Specify applicable rate: \_\_\_\_\_ (Unit will operate in parallel and shall sell all output of the Qualifying Facility to the G&T)
- 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.)(Under this option, the Cooperative will not purchase any portion of the generation facility output and Attachment 2 is not applicable)
- Other: (Please Explain): \_\_\_\_\_  
\_\_\_\_\_

Note: The Cooperative is a Member of Corn Belt Power Cooperative (G&T) and the Cooperative and G&T are parties to a Joint PURPA Implementation Plan filed with FERC pursuant to which any purchase from a Qualifying Facility is to be made by G&T rather than Cooperative.

**Distributed Generation Facility (“Facility”) Information**

Facility Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

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Issued By: /s/ Marvin Janssen  
President



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 showing the distributed generation facility’s location in relation to streets, alleys, or other geographic markers.

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: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

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This Application Form and Interconnection Agreement is comprised of: 1) the Level 1 Standard Application Form and Interconnection Agreement; 2) the Attachment 1 setting forth the Terms and Conditions for Interconnection; 3) the Attachment 2 setting forth the terms for purchases by the G&T from the distributed generation facility, when applicable; and 4) the Certificate of Completion

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

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**Conditional Agreement to Interconnect Distributed Generation Facility**

Receipt of the application fee, if any, is acknowledged and, by its signature below, the Cooperative 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. Note that to the extent the Interconnection Customer wishes the G&T to purchase





ATTACHMENT 1

Level 1: Standard Interconnection Agreement

Terms and Conditions for Interconnection

- 1) Construction of the Distributed Generation Facility. The interconnection member-consumer 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 Cooperative.
  
- 2) Final Interconnection and Operation. The interconnection member-consumer may operate the distributed generation facility and interconnect with the Cooperative's electric distribution system after all of the following have occurred:
  - a. Electrical Inspection: Upon completing construction, the interconnection member-consumer 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 member-consumer shall provide the Cooperative with a copy of the Certificate of Completion with all relevant and necessary information fully completed by the interconnection member-consumer, as well as an inspection form from the local electrical inspection authority demonstrating that the distributed generation facility passed inspection.
  - c. The Cooperative has completed its witness test as per the following:
    - i. The interconnection member-consumer shall provide the Cooperative at least 15 business days' notice of the planned commissioning test for the distributed generation facility. Within 10 business days after the commissioning test, the Cooperative 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 and in accordance with the requirements of IEEE 1547.
    - ii. If the Cooperative does not perform the witness test within the 10 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 Cooperative cannot do so for good cause. In these cases, upon Cooperative request, the interconnection member-consumer shall agree to another date for the test within 10 business days after the original scheduled date.
  
- 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,

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or electric distribution system, or the Cooperative's willful misconduct or breach of this Agreement.

- 8) Insurance. The interconnection member-consumer shall provide the Cooperative with proof that it has a current homeowner's insurance policy or other general liability policy. The interconnection member-consumer agrees to provide the Cooperative with at least 30 calendar days' advance written notice of cancellation, reduction in limits, or non-renewal of any insurance policy required by this Agreement and may be required to show proof of insurance on an annual basis.
  
- 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 event shall death, bodily injury or third-party claims be construed as indirect or consequential damages.
  
- 10) Termination. This Agreement will remain in effect until terminated and may be terminated under the following conditions:
  - a. By interconnection member-consumer - The interconnection member-consumer may terminate this interconnection agreement by providing written notice to the Cooperative. If the interconnection member-consumer ceases operation of the distributed generation facility, the interconnection member-consumer must notify the Cooperative.
  - b. By the Cooperative - The Cooperative may terminate this Agreement without liability to the interconnection member-consumer if the interconnection member-consumer fails to remedy a violation of 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 day remedy period. The termination date may be no less than 30 calendar days after the interconnection member-consumer receives notice of its violation from the Cooperative.
  
- 11) Modification of Distributed Generation Facility. The interconnection member-consumer must receive written authorization from the Cooperative before making any changes to the distributed generation facility that could affect the Cooperative's distribution system. If the interconnection member-consumer makes such modifications without the Cooperative's prior written authorization, the Cooperative shall have the right to disconnect the distributed generation facility.



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 member-consumer's application. The interconnection member-consumer is responsible for notifying the Cooperative of any change in the contact party information, including change of ownership.

If Notice is to Cooperative:

Use the contact information provided below. The Cooperative is responsible for notifying the interconnection member-consumer of any change in the contact party information.

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

- 19) Interruptions. The Cooperative is not responsible for any lost opportunity or other costs incurred by the interconnection member-consumer as a result of an interruption of service.
  
- 20) Operator. The interconnection member-consumer shall designate an operator who will be responsible for day-to-day operations of the distributed generation facility and available for communication on a 24 hour per day/7 day per week basis with Cooperative, G&T, the Local Balancing Authority, MISO and other applicable entities with jurisdiction over the operation of the Facility and Cooperative's System.

ATTACHMENT 2

Level 1: Standard Interconnection Agreement

Terms of G&T Purchases from Distribution Facility

1. Agreement to Purchase. Cooperative is a member of Corn Belt Power Cooperative (G&T) and obtains all of its wholesale power from G&T. The Cooperative and G&T have filed a Joint Implementation Plan with the Federal Energy Regulatory Commission ("FERC") which provides for coordinated implementation of the obligations of G&T and Cooperative relative to qualifying facilities. Pursuant to said Plan, Cooperative agrees to provide to any qualifying facility in its service territory supplementary, backup, maintenance, and interruptible power and G&T agrees to purchase energy and capacity from said facility, all in accordance with the requirements of the Public Utilities Regulatory Policies Act ("PURPA"). In the event the Interconnecting Customers selects the option of Self-Use and Sales to the G&T on the Application Form, then the G&T agrees to purchase from the Interconnection Customer such excess energy and capacity as may be available for purchase by the Interconnection Customer's facility and which Interconnection Customer desires to sell to the G&T. G&T acknowledges that Interconnection Customer may utilize some of the energy Interconnection Customer generates as it is being generated and the G&T understands that it will only purchase such excess as Interconnection Customer delivers to Cooperative. In the event the Interconnecting Customers selects the option of selling all output to the G&T under one of the special rate options on the Application Form, then the G&T agrees to purchase from the Interconnection Customer all energy and capacity from the Interconnection Customer's facility

2. Rates

Payment for purchases from the member-consumer pursuant to this contract shall be as follows:

\_\_\_\_\_ Qualifying Facility Generation Purchase Rate under PURPA

\_\_\_\_\_ Small Renewable Energy Purchase Rate (Customer keeps Green Tags)

\_\_\_\_\_ Small Renewable Energy Purchase Rate (Customer does not keep Green Tags)

3. Metering. The Cooperative will install metering equipment at the point of service to the QF Facility of one of the following types:

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President









**Appendix C – Standard certificate of completion**

CERTIFICATE OF COMPLETION

(To be completed and returned to the Cooperative when installation is complete and final electric inspector approval has been obtained – Use contact information provided on the Cooperative’s web page for generator interconnection to obtain mailing address/fax number/e-mail address)

Interconnection Customer Information

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Installer: \_\_\_\_\_ Check if owner-installed: \_\_\_\_\_

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Final Electric Inspection and Interconnection Customer Signature

The distributed generation facility is complete and has been approved by the local electric inspector having jurisdiction. A signed copy of the electric inspector’s form indicating final approval is attached. The interconnection member-consumer acknowledges that it shall not operate the distributed generation facility until receipt of the final acceptance and approval by the Cooperative as provided below.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
(Signature of interconnection member-consumer)

Printed Name: \_\_\_\_\_

Check if copy of signed electric inspection form is attached: \_\_\_\_\_  
Check if copy of as built documents is attached (projects larger than 10 kVA only): \_\_\_\_\_

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Acceptance and Final Approval for Interconnection (for cooperative use only)







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Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_  
License Number: \_\_\_\_\_

Electric Service Information for Customer Facility where Generator will be Interconnected

Capacity: \_\_\_\_\_ (Amps) Voltage: \_\_\_\_\_ (Volts)  
Type of Service: \_\_\_ Single Phase \_\_\_ Three Phase

If 3 Phase Transformer, Indicate Type:  
Primary Winding \_\_\_ Wye \_\_\_ Delta  
Secondary Winding \_\_\_ Wye \_\_\_ Delta

Transformer Size: \_\_\_\_\_ Impedance: \_-----\_

Intent of Generation

- Offset Load (Unit will operate in parallel, but will not export power to Cooperative or G&T)
- Self-Use and Sales to the G&T (Unit will operate in parallel and may export and sell excess power to G&T pursuant to the Cooperative's tariff and a separate power purchase agreement to be executed by the QF and Corn Belt pursuant to Cooperative and Corn Belt's Joint PURPA Implementation Plan)
- Sell all output to the G&T (Unit will operate in parallel and shall sell all output of the Qualifying Facility to the G&T)
- Wholesale Market Transaction (Unit will operate in parallel and participate in MISO or other wholesale power markets pursuant to separate requirements and agreements with MISO 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.)
- Other: (Please Explain): \_\_\_\_\_

Note: The Cooperative is a Member of Corn Belt Power Cooperative (G&T) and the Cooperative and G&T are parties to a Joint PURPA Implementation Plan filed with

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Distributed Generation Facility Information:

Commissioning Test Date: \_\_\_\_\_

List interconnection components/systems to be used in the distributed generation facility that are lab-certified.

Component/System	NRTL Providing Label & Listing
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

Please provide copies of manufacturer brochures or technical specifications.

Energy Production Equipment/Inverter Information:

\_\_\_ Synchronous \_\_\_ Induction \_\_\_ Inverter \_\_\_ Other: \_\_\_\_\_  
Rating: \_\_\_\_\_ kW Rating: \_\_\_\_\_ kVA  
Rated Voltage: \_\_\_\_\_ Volts  
Rated Current: \_\_\_\_\_ Amps  
System Type Tested (Total System): \_\_\_ Yes \_\_\_ No; attach product literature

For Synchronous 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.: \_\_\_\_\_  
Submit copies of the Saturation Curve and the Vee Curve  
\_\_\_ Salient \_\_\_ Non-Salient  
Torque: \_\_\_\_\_ lb-ft Rated RPM: \_\_\_\_\_ Field Amperes: \_\_\_\_\_ at rated  
generator voltage and current and \_\_\_\_\_ % PF over-excited  
Type of Exciter: \_\_\_\_\_  
Output Power of Exciter: \_\_\_\_\_  
Type of Voltage Regulator: \_\_\_\_\_  
Locked Rotor Current: \_\_\_\_\_ Amps Synchronous Speed: \_\_\_\_\_ RPM  
Winding Connection: \_\_\_\_\_ Min. Operating Freq./Time: \_\_\_\_\_  
Generator Connection: \_\_\_ Delta \_\_\_ Wye \_\_\_ Wye Grounded  
Direct-axis Synchronous Reactance: (Xd) \_\_\_\_\_ ohms  
Direct-axis Transient Reactance: (X'd) \_\_\_\_\_ ohms

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Direct-axis Sub-transient Reactance: (X"d) \_\_\_\_\_ ohms  
Negative Sequence Reactance: \_\_\_\_\_ ohms  
Zero Sequence Reactance: \_\_\_\_\_ ohms  
Neutral Impedance or Grounding Resister (if any): \_\_\_\_\_ 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): \_\_\_\_\_ ohms Exciting Current: \_\_\_\_\_ Amps  
Rotor Reactance (Xr): \_\_\_\_\_ ohms Reactive Power Required: \_\_\_\_\_  
Magnetizing Reactance (Xm): \_\_\_\_\_ ohms \_\_\_\_\_ VARs (No Load)  
Stator Resistance (Rs): \_\_\_\_\_ ohms \_\_\_\_\_ VARs (Full Load)  
Stator Reactance (Xs): \_\_\_\_\_ ohms  
Short Circuit Reactance (X"d): \_\_\_\_\_ ohms  
Phases: \_\_\_\_\_ Single \_\_\_\_\_ Three-Phase  
Frame Size: \_\_\_\_\_ Design Letter: \_\_\_\_\_ Temp. Rise: \_\_\_\_\_ °C.

Reverse Power Relay Information (Level 3 Review Only):

Manufacturer: \_\_\_\_\_  
Relay Type: \_\_\_\_\_ Model Number: \_\_\_\_\_  
Reverse Power Setting: \_\_\_\_\_  
Reverse Power Time Delay (if any): \_\_\_\_\_

Additional Information For Inverter-Based Facilities:

Inverter Information:

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Type: \_\_\_\_\_ Forced Commutated \_\_\_\_\_ Line Commutated  
Rated Output: \_\_\_\_\_ Watts \_\_\_\_\_ Volts  
Efficiency: \_\_\_\_\_% Power Factor: \_\_\_\_\_%  
Inverter UL1741 Listed: \_\_\_\_\_ Yes \_\_\_\_\_ No

DC Source/Prime Mover:

Rating: \_\_\_\_\_ kW Rating: \_\_\_\_\_ kVA  
Rated Voltage: \_\_\_\_\_ Volts  
Open Circuit Voltage (if applicable): \_\_\_\_\_ Volts

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Rated Current: \_\_\_\_\_ Amps  
Short Circuit Current (if applicable): \_\_\_\_\_ Amps

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 showing the distributed generation facility's location in relation to streets, alleys, or other geographic markers.

Plot Plan attached: \_\_\_ Yes

Disconnect Switch: Identify type and location of disconnect switch: \_\_\_\_\_  
\_\_\_\_\_

Is the generating facility a Qualifying Facility as defined under the Public Utilities Regulatory Policies Act (18 CFR Part 292, Subpart B)?

Yes \_\_\_ No \_\_\_

Customer Signature:

I hereby certify that all of the information provided in this Interconnection Request Application Form is true.

Applicant Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

An application fee is required before the application can be processed. Please verify that the appropriate fee is included with the application:  
Amount: \_\_\_\_\_

Cooperative Acknowledgement:

Receipt of the application fee is acknowledged and this interconnection request is complete.

Cooperative Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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and to perform its obligations under this Agreement. The interconnection member-consumer is responsible for coordinating and synchronizing the distributed generation facility with the Cooperative's system. The interconnection member-consumer is responsible for any damage that is caused by the interconnection member-consumer's failure to coordinate or synchronize the distributed generation facility with the electric distribution system. The interconnection member-consumer agrees to be primarily liable for any damages resulting from the continued operation of the distributed generation facility after the Cooperative ceases to energize the line section to which the distributed generation facility is connected. In Attachment 4, the Cooperative shall specify the shortest reclose time setting for its protection equipment that could affect the distributed generation facility. The Cooperative shall notify the interconnection member-consumer at least 10 business days prior to adopting a faster reclose time on any automatic protective equipment, such as a circuit breaker or line recloser, that might affect the distributed generation facility.

**Article 2. Inspection, Testing, Authorization, and Right of Access**

**2.1 Equipment Testing and Inspection**

The interconnection member-consumer shall test and inspect its distributed generation facility including the interconnection equipment prior to interconnection in accordance with IEEE Standard 1547 (2003) and IEEE Standard 1547.1 (2005). The interconnection member-consumer shall not operate its distributed generation facility in parallel with the Cooperative's electric distribution system without prior written authorization by the Cooperative as provided for in Articles 2.1.1-2.1.3.

2.1.1 The Cooperative shall perform a witness test after construction of the distributed generation facility is completed, but before parallel operation, unless the Cooperative specifically waives the witness test. The interconnection member-consumer shall provide the Cooperative at least 15 business days' notice of the planned commissioning test for the distributed generation facility. If the Cooperative performs a witness test at a time that is not concurrent with the commissioning test, it shall contact the interconnection member-consumer to schedule the witness test at a mutually agreeable time within 10 business days after the scheduled commissioning test designated on the application. If the Cooperative does not perform the witness test within 10 business days after the commissioning test, the witness test is deemed waived unless the Parties mutually agree to extend the date for scheduling the witness test, or unless the Cooperative cannot do so for good cause, in which case, the Parties shall agree to another date for scheduling the test within 10 business days after the original scheduled date. If the witness test is not

acceptable to the Cooperative, the interconnection member-consumer has 30 business days to address and resolve any deficiencies. This time period may be extended upon agreement in writing between the Cooperative and the interconnection member-consumer. If the interconnection member-consumer fails to address and resolve the deficiencies to the satisfaction of the Cooperative, the applicable cure provisions of Article 6.5 shall apply. The interconnection member-consumer shall, if requested by the Cooperative, provide a copy of all documentation in its possession regarding testing conducted pursuant to IEEE Standard 1547.1.

2.1.2 If the interconnection member-consumer conducts interim testing of the distributed generation facility prior to the witness test, the interconnection member-consumer shall obtain permission from the Cooperative before each occurrence of operating the distributed generation facility in parallel with the electric distribution system. The Cooperative may, at its own expense, send qualified personnel to the distributed generation facility to observe such interim testing, but it cannot mandate that these tests be considered in the final witness test. The Cooperative is not required to observe the interim testing or precluded from requiring the tests be repeated at the final witness test.

2.1.3 After the distributed generation facility passes the witness test, the Cooperative shall affix an authorized signature to the certificate of completion and return it to the interconnection member-consumer approving the interconnection and authorizing parallel operation. The authorization shall not be conditioned nor delayed.

## 2.2 Commercial Operation

The interconnection member-consumer shall not operate the distributed generation facility, except for interim testing as provided in Article 2.1, until such time as the certificate of completion is signed by all Parties.

## 2.3 Right of Access

The Cooperative must have access to the isolation device or disconnect switch and metering equipment of the distributed generation facility at all times. When practical, the Cooperative shall provide notice to the member-consumer prior to using its right of access.

### **Article 3. Effective Date, Term, Termination, and Disconnection**

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3.1 Effective Date

This Agreement shall become effective upon execution by all Parties.

3.2 Term of Agreement

This Agreement shall become effective on the effective date and shall remain in effect unless terminated in accordance with Article 3.3 of this Agreement.

3.3 Termination

3.3.1 The interconnection member-consumer may terminate this Agreement at any time by giving the Cooperative 30 calendar days' prior written notice.

3.3.2 Either Party may terminate this Agreement after default pursuant to Article 6.5.

3.3.3 The Cooperative may terminate, upon 60 calendar days' prior written notice, for failure of the interconnection member-consumer to complete construction of the distributed generation facility within 12 months after the in-service date as specified by the Parties in Attachment 2, which may be extended by mutual written agreement between the Parties prior to the expiration of the 12-month period.

3.3.4 The Cooperative may terminate this Agreement, upon 60 calendar days' prior written notice, if the interconnection member-consumer has abandoned, cancelled, permanently disconnected or stopped development, construction, or operation of the distributed generation facility, or if the interconnection member-consumer fails to operate the distributed generation facility in parallel with the Cooperative's electric system for three consecutive years.

3.3.5 Upon termination of this Agreement, the distributed generation facility will be disconnected from the Cooperative's electric distribution system. Terminating this Agreement does not relieve either Party of its liabilities and obligations that are owed or continuing when the Agreement is terminated.

3.3.6 If the Agreement is terminated, the interconnection member-consumer loses its position in the interconnection review order.

3.4 Temporary Disconnection

A Party may temporarily disconnect the distributed generation facility from the electric distribution system in the event one or more of the following conditions or events occurs:



- 3.4.1 Emergency conditions – shall mean any condition or situation: (1) that in the judgment of the Party making the claim is likely to endanger life or property; or (2) that the Cooperative determines is likely to cause an adverse system impact, or is likely to have a material adverse effect on the Cooperative’s electric distribution system, interconnection facilities or other facilities, or is likely to interrupt or materially interfere with the provision of electric utility service to other member-consumers; or (3) that is likely to cause a material adverse effect on the distributed generation facility or the interconnection equipment. Under emergency conditions, the Cooperative or the interconnection member-consumer may suspend interconnection service and temporarily disconnect the distributed generation facility from the electric distribution system without giving notice to the other Party, provided that it gives notice as soon as practicable thereafter. The Cooperative must notify the interconnection member-consumer when it becomes aware of any conditions that might affect the interconnection member-consumer’s operation of the distributed generation facility. The interconnection member-consumer shall notify the Cooperative when it becomes aware of any condition that might affect the Cooperative’s electric distribution system. To the extent information is known, the notification shall describe the condition, the extent of the damage or deficiency, the expected effect on the operation of both Parties’ facilities and operations, its anticipated duration, and the necessary corrective action.
- 3.4.2 Scheduled maintenance, construction, or repair – the Cooperative may interrupt interconnection service or curtail the output of the distributed generation facility and temporarily disconnect the distributed generation facility from the Cooperative’s electric distribution system when necessary for scheduled maintenance, construction, or repairs on Cooperative’s electric distribution system. To the extent possible, the Cooperative shall provide the interconnection member-consumer with notice five business days before an interruption. The Cooperative shall coordinate the reduction or temporary disconnection with the interconnection member-consumer; however, the interconnection member-consumer is responsible for out-of-pocket costs incurred by the Cooperative for deferring or rescheduling maintenance, construction, or repair at the interconnection member-consumer’s request.
- 3.4.3 Forced outages – The Cooperative may suspend interconnection service to repair the Cooperative’s electric distribution system. The Cooperative shall provide the interconnection member-consumer with prior notice, if possible. If prior notice is not possible, the Cooperative shall, upon written request, provide the interconnection member-consumer with written documentation, after the fact, explaining the circumstances of the disconnection.

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- 3.4.4 Adverse system impact – the Cooperative must provide the interconnection member-consumer with written notice of its intention to disconnect the distributed generation facility, if the Cooperative determines that operation of the distributed generation facility creates an adverse system impact. The documentation that supports the Cooperative's decision to disconnect must be provided to the interconnection member-consumer. The Cooperative may disconnect the distributed generation facility if, after receipt of the notice, the interconnection member-consumer fails to remedy the adverse system impact within 12 days, unless emergency conditions exist, in which case, the provisions of Article 3.4.1 apply. The Cooperative may continue to leave the generating facility disconnected until the adverse system impact is corrected to the satisfaction of both the Cooperative and the adversely-impacted member-consumer.
- 3.4.5 Modification of the distributed generation facility – The interconnection member-consumer must receive written authorization from the Cooperative prior to making any change to the distributed generation facility, other than a minor equipment modification. If the interconnection member-consumer modifies its facility without the Cooperative's prior written authorization, the Cooperative has the right to disconnect the distributed generation facility until such time as the Cooperative concludes the modification poses no threat to the safety or reliability of its electric distribution system.
- 3.4.6 Unauthorized connection to the Cooperative's electric distribution system.
- 3.4.7 Failure of the distributed generation facility to operate in accordance with this Agreement or the applicable requirements of 199 IAC Chapter 15 or the Cooperative's tariff.
- 3.4.8 The Cooperative is not responsible for any lost opportunity or other costs incurred by interconnection member-consumer as a result of an interruption of service under Article 3.

**Article 4.    Cost Responsibility for Interconnection Facilities and Distribution Upgrades**

**4.1    Interconnection Facilities**

- 4.1.1 The interconnection member-consumer shall pay for the cost of the interconnection facilities itemized in Attachment 3. The Cooperative shall identify the additional interconnection facilities necessary to interconnect the distributed generation facility with the Cooperative's electric distribution system, the cost of those facilities, and the time required to

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President





consumer's previous deposit and aggregate payments exceed its cost responsibility under this Agreement, the Cooperative shall refund to the interconnection member-consumer an amount equal to the difference within 30 calendar days after the final accounting report. Upon request from the interconnection member-consumer, if the difference between the budget estimate and the actual cost exceeds 20%, the Cooperative will provide a written explanation for the difference.

5.1.3 If a Party disputes any portion of its payment obligation pursuant to this Article 5, the Party shall pay in a timely manner all non-disputed portions of its invoice, and the disputed amount shall be resolved pursuant to the dispute resolution provisions contained in Article 8. A Party disputing a portion of an Article 5 payment shall not be considered to be in default of its obligations under this Article.

5.2 Interconnection Customer Deposit

At least 20 business days prior to the commencement of the design, procurement, installation, or construction of the Cooperative's interconnection facilities and distribution upgrades, the interconnection member-consumer shall provide the Cooperative with a deposit equal to 100% of the estimated, nonbinding cost to procure, install, or construct any such facilities. However, when the estimated date of completion of the building or installation of facilities exceeds three months from the date of payment of the deposit, pursuant to Article 4.1.1 of this Agreement, this deposit may be held by the Cooperative.

**Article 6. Assignment, Limitation on Damages, Indemnity, Force Majeure, and Default**

6.1 Assignment

This Agreement may be assigned by either Party with the prior consent of the other Party. If the interconnection member-consumer attempts to assign this Agreement, the assignee must agree to the terms of this Agreement in writing and such writing must be provided to the Cooperative. Any attempted assignment that violates this Article is void and ineffective. Assignment shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason of the assignment. An assignee is responsible for meeting the same obligations as the assignor.

6.1.1 Either Party may assign this Agreement without the consent of the other Party to any affiliate (including mergers, consolidations, or transfers or a sale of a substantial portion of the Party's assets, between the Party and another entity), of the assigning Party that has an equal or greater credit rating and the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement.

6.1.2 The interconnection member-consumer can assign this Agreement, without the consent of the Cooperative, for collateral security purposes to aid in providing financing for the distributed generation facility.

6.2 Limitation on Damages

Except for cases of gross negligence or willful misconduct, the liability of any Party to this Agreement shall be limited to direct actual damages, including death, bodily injury, third-party claims, and reasonable attorney's fees, and all other damages at law are waived. Under no circumstances, except for cases of gross negligence or willful misconduct, shall any Party or its directors, officers, employees, and agents, or any of them, be liable to another Party, whether in tort, contract or other basis in law or equity for any special, indirect, punitive, exemplary, or consequential damages, including lost profits, lost revenues, replacement power, cost of capital, or replacement equipment. This limitation on damages shall not affect any Party's rights to obtain equitable relief, including specific performance, as otherwise provided in this Agreement. The provisions of this Article 6.2 shall survive the termination or expiration of the Agreement.

6.3 Indemnity

6.3.1 This provision protects each Party from liability incurred as a result of carrying out the provisions of this Agreement. Liability under this provision is exempt from the general limitations on liability found in Article 6.2.

6.3.2 The interconnection member-consumer shall indemnify and defend the Cooperative and the Cooperative's directors, officers, employees, and agents, from all claims, damages, and expenses, including reasonable attorney's fees, to the extent resulting from the interconnection member-consumer's negligent installation, operation, modification, maintenance, or removal of its distributed generation facility or interconnection facilities, or the interconnection member-consumer's willful misconduct or breach of this Agreement.

6.3.3 The Cooperative shall indemnify and defend the interconnection member-consumer and the interconnection member-consumer's directors, officers, employees, and agents from all claims, damages, and expenses, including reasonable attorney's fees, to the extent resulting from the Cooperative's negligent installation, operation, modification, maintenance, or removal of its interconnection facilities or electric distribution system, or the Cooperative's willful misconduct or breach of this Agreement.

6.3.4 Within 5 business days after receipt by an indemnified Party of any claim or notice that an action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may

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apply has commenced, the indemnified Party shall notify the indemnifying Party of such fact. The failure to notify, or a delay in notification, shall not affect a Party's indemnification obligation unless that failure or delay is materially prejudicial to the indemnifying Party.

6.3.5 If an indemnified Party is entitled to indemnification under this Article as a result of a claim, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such claim, that indemnified Party may, at the expense of the indemnifying Party, contest, settle, or consent to the entry of any judgment with respect to, or pay in full, the claim.

6.3.6 If an indemnifying Party is obligated to indemnify and hold any indemnified Party harmless under this Article, the amount owing to the indemnified person shall be the amount of the indemnified Party's actual loss, net of any insurance or other recovery by the indemnified Party.

#### 6.4 Force Majeure

6.4.1 As used in this Article, a force majeure event shall mean any act of God, labor disturbance, act of the public enemy, war, acts of terrorism, insurrection, riot, fire, storm or flood, explosion, breakage, or accident to machinery or equipment through no direct, indirect, or contributory act of a Party, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities (e.g., MISO), or any other cause beyond a Party's control. A force majeure event does not include an act of gross negligence or intentional wrongdoing by the Party claiming force majeure.

6.4.2 If a force majeure event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the force majeure event ("Affected Party") shall notify the other Party of the existence of the force majeure event as soon as reasonably possible. The notification will specify the circumstances of the force majeure event, its expected duration (if known), and the steps that the Affected Party is taking and will take to mitigate the effects of the event on its performance (if known). If the initial notification is verbal, it must be followed up with a written notification promptly thereafter. The Affected Party shall keep the other Party informed on a periodic basis of developments relating to the force majeure event until the event ends. The Affected Party may suspend or modify its obligations under this Agreement without liability only to the extent that the effect of the force majeure event cannot be otherwise mitigated.

#### 6.5 Default

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President

Franklin Rural Electric Cooperative Section 25 COGENERATION AND SMALL POWER PRODUCTION  
Electric Tariff Original Sheet No. 109  
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- 6.5.1 No default shall exist when the failure to discharge an obligation results from a force majeure event as defined in this Agreement, or the result of an act or omission of the other Party.
- 6.5.2 A Party shall be in default (“Default”) of this Agreement if it fails in any material respect to comply with, observe, or perform, or defaults in the performance of, any covenant or obligation under this Agreement and fails to cure the failure within 60 calendar days after receiving written notice from the other Party. Upon a default of this Agreement, the non-defaulting Party shall give written notice of the default to the defaulting Party. Except as provided in Article 6.5.3, the defaulting Party has 60 calendar days after receipt of the default notice to cure the default; provided, however, if the default cannot be cured within 60 calendar days, the defaulting Party shall commence the cure within 20 calendar days after original notice and complete the cure within six months from receipt of the default notice; and, if cured within that time, the default specified in the notice shall cease to exist.
- 6.5.3 If a Party has assigned this Agreement in a manner that is not specifically authorized by Article 6.1, fails to provide reasonable access pursuant to Article 2.3, and is in default of its obligations pursuant to Article 7, or if a Party is in default of its payment obligations pursuant to Article 5 of this Agreement, the defaulting Party has 30 days from receipt of the default notice to cure the default.
- 6.5.4 If a default is not cured as provided for in this Article, or if a default is not capable of being cured within the period provided for in this Article, the non-defaulting Party shall have the right to terminate this Agreement without liability by written notice, and be relieved of any further obligation under this Agreement and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due under this Agreement, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this Article shall survive termination of this Agreement.

### **Article 7. Insurance**

- 7.1 For distributed generation facilities with a nameplate capacity less than 150 kVA, the interconnection member-consumer shall carry general liability insurance coverage, such as, but not limited to, homeowner’s insurance.
- 7.2 For distributed generation facilities with a nameplate capacity of 150 kVA or above; but less than 1 MVA, the interconnection member-consumer shall carry sufficient coverage so that the maximum comprehensive/general liability

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Original  
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coverage that is continuously maintained by the interconnection member-consumer during the terms shall be not less than \$1,000,000 for each occurrence. The Cooperative, its officers, employees and agents shall be added as an additional insured on this policy.

- 7.3 For distributed generation facilities with a nameplate capacity of 1 MVA or above, the interconnection member-consumer shall carry sufficient insurance coverage so that the maximum comprehensive/general liability coverage that is continuously maintained by the interconnection member-consumer during the term shall be not less than \$2,000,000 for each occurrence, and an aggregate, if any, of at least \$4,000,000. The Cooperative, its officers, employees and agents shall be added as an additional insured on this policy.
- 7.4 The interconnection member-consumer agrees to provide the Cooperative with at least 30 calendar days' advance written notice of cancellation, reduction in limits, or non-renewal of any insurance policy required by this Article.

## **Article 8. Dispute Resolution**

- 8.1 Parties shall attempt to resolve all disputes regarding interconnection as provided in this Article in a good faith manner.
- 8.2 If there is a dispute between the Parties about an interpretation of the Agreement, the aggrieved Party shall issue a written notice to the other Party to the agreement that specifies the dispute and the Agreement articles that are disputed.
- 8.3 A meeting between the Parties shall be held within ten business days after receipt of the written notice. Persons with decision-making authority from each Party shall attend the meeting. If the dispute involves technical issues, persons with sufficient technical expertise and familiarity with the issue in dispute from each Party shall also attend the meeting. If the Parties agree, the meeting may be conducted by teleconference.
- 8.4 After the first meeting, each Party may seek resolution through the Iowa Utilities Board Chapter 6 complaint procedures (199 IAC 6). Dispute resolution under these procedures will initially be conducted informally under 199 IAC 6.2 through 6.4 to minimize cost and delay. If any Party is dissatisfied with the outcome of the informal process, the Party may file a formal complaint with the Board under 199 IAC 6.5.
- 8.5 Pursuit of dispute resolution may not affect an interconnection request or an interconnection applicant's position in the Cooperative's interconnection review order.

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**/s/ Marvin Janssen**

President

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constitute a waiver or relinquishment of any rights set out in this Agreement, but the same shall be and remain at all times in full force and effect, unless and only to the extent expressly set forth in a written document signed by that Party granting the waiver or relinquishing any such rights. Any waiver granted, or relinquishment of any right, by a Party shall not operate as a relinquishment of any other rights or a waiver of any other failure of the Party granted the waiver to comply with any obligation, covenant, agreement, or condition of this Agreement.

#### 9.5 Entire Agreement

Except as provided in Article 9.1, this Agreement, including all attachments and the completed Standard Certificate of Completion, constitutes the entire Agreement between the Parties with reference to the subject matter of this Agreement, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants that constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this Agreement.

#### 9.6 Multiple Counterparts

This Agreement may be executed in two or more counterparts, each of which is deemed an original, but all constitute one and the same instrument.

#### 9.7 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties, or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power, or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

#### 9.8 Severability

If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other governmental authority, (1) that portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by the ruling, and (3) the remainder of this Agreement shall remain in full force and effect.



## 9.9 Environmental Releases

Each Party shall notify the other Party of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the distributed generation facility or the interconnection facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided that Party makes a good faith effort to provide the notice no later than 24 hours after that Party becomes aware of the occurrence, and (2) promptly furnish to the other Party copies of any publicly available reports filed with any governmental authorities addressing such events.

## 9.10 Subcontractors

Nothing in this Agreement shall prevent a Party from using the services of any subcontractor it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing services and each Party shall remain primarily liable to the other Party for the performance of the subcontractor.

9.10.1 A subcontract relationship does not relieve any Party of any of its obligations under this Agreement. The hiring Party remains responsible to the other Party for the acts or omissions of its subcontractor. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of the hiring Party.

9.10.2 The obligations under this Article cannot be limited in any way by any limitation of subcontractor's insurance.

## **Article 10. Notices**

### 10.1 General

Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first-class mail, postage prepaid, to the person specified below:

If Notice is to Interconnection Customer:

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President

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Interconnection Customer: \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

If Notice is to Cooperative:

Cooperative: Franklin Rural Electric Cooperative  
Attention: Francis W. Buckel  
Address: P.O. Box 437, 1560 Highway 65  
City: Hampton State: Iowa Zip: 50441  
Phone: (641) 456-2557 Fax: (641) 456-5183 E-mail: fbuckel@franklinrec.coop

Alternative Forms of Notice:

Any notice or request required or permitted to be given by either Party to the other Party and not required by this Agreement to be in writing may be given by telephone, facsimile or e-mail to the telephone numbers and e-mail addresses set out above.

10.2 Billing and Payment

Billings and payments shall be sent to the contacts specified for Notices in Article 10.1 above, unless a different address is set out below:

If Billing or Payment is to Interconnection Customer:

Interconnection Customer: \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

If Billing or Payment is to Cooperative:

Cooperative: Franklin Rural Electric Cooperative  
Attention: Francis W. Buckel  
Address: P.O. Box 437, 1560 Highway 65  
City: Hampton State: Iowa Zip: 50441  
Phone: (641) 456-2557 Fax: (641) 456-5183 E-mail: fbuckel@franklinrec.coop

10.3 Designated Operating Representative

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President

The Parties shall also designate operating representatives to conduct the communications that may be necessary or convenient for the administration of this Agreement. This person will also serve as the point of contact with respect to operations and maintenance of the Party's facilities.

Interconnection Customer's Operating Representative:

Name: \_\_\_\_\_  
Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Cooperative's Operating Representative:

Name: Franklin Rural Electric Cooperative  
Attention: \_\_\_\_\_  
Address: P.O. Box 437, 1560 Highway 65  
City: Hampton State: Iowa Zip: 50441  
Telephone: (641) 456-2557 Cell Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

10.4 Changes to the Notice Information

Either Party may change this notice information by giving five business days' written notice before the effective date of the change.

**Article 11. Signatures**

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives.

For the Interconnection Customer:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

For the Cooperative:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_

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Issued By:         /s/ Marvin Janssen          
President

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## ATTACHMENT 1

Levels 2 To 4: Standard Interconnection Agreement

### Definitions

Adverse system impact – A negative effect that compromises the safety or reliability of the electric distribution system or materially affects the quality of electric service provided by the Cooperative to other member-consumers.

AEP facility – An AEP facility as defined in 199 IAC 15 (Iowa Utilities Board Chapter 15 rules on Cogeneration and Small Power Production), used by an interconnection member-consumer to generate electricity that operates in parallel with the electric distribution system. An AEP facility typically includes an electric generator and the interconnection equipment required to interconnect safely with the electric distribution system or local electric power system.

Applicable laws and regulations – All duly promulgated applicable federal, state and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any governmental authority, having jurisdiction over the Parties.

Commissioning test – Tests applied to a distributed generation facility by the applicant after construction is completed to verify that the facility does not create adverse system impacts. At a minimum, the scope of the commissioning tests performed shall include the commissioning test specified IEEE Standard 1547 Section 5.4 “Commissioning tests.”

Distributed generation facility – A qualifying facility or an AEP facility.

Distribution upgrades – A required addition or modification to the Cooperative’s electric distribution system at or beyond the point of interconnection to accommodate the interconnection of a distributed generation facility. Distribution upgrades do not include interconnection facilities.

Electric distribution system – The facilities and equipment used to transmit electricity to ultimate usage points such as homes and industries from interchanges with higher voltage transmission networks that transport bulk power over longer distances. The voltage levels at which electric distribution systems operate differ among areas but generally carry less than 100 kilovolts of electricity. Electric distribution system has the same meaning as the term Area EPS, as defined in 3.1.6.1 of IEEE Standard 1547.

Facilities study – An engineering study conducted by the Cooperative to determine the required modifications to the Cooperative’s electric distribution system, including the

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President

cost and the time required to build and install the modifications, as necessary to accommodate an interconnection request.

Force majeure event – Any act of God, labor disturbance, act of the public enemy, war, acts of terrorism, insurrection, riot, fire, storm or flood, explosion, breakage, or accident to machinery or equipment through no direct, indirect, or contributory act of a Party, any order, regulation, or restriction imposed by governmental, military, or lawfully established civilian authorities (e.g., MISO), or any other cause beyond a Party's control. A force majeure event does not include an act of gross negligence or intentional wrongdoing by the Party claiming force majeure.

Governmental authority – Any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that this term does not include the interconnection member-consumer, Cooperative, or any affiliate of either.

IEEE Standard 1547 – The Institute of Electrical and Electronics Engineers, Inc. (IEEE), 3 Park Avenue, New York NY 10016-5997, Standard 1547 (2003), "Standard for Interconnecting Distributed Resources with Electric Power Systems."

IEEE Standard 1547.1 – The IEEE Standard 1547.1 (2005), "Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems."

Interconnection agreement or Agreement – The agreement between the interconnection member-consumer and the Cooperative. The interconnection agreement governs the connection of the distributed generation facility to the Cooperative's electric distribution system and the ongoing operation of the distributed generation facility after it is connected to the Cooperative's electric distribution system.

Interconnection member-consumer – The entity entering into this Agreement for the purpose of interconnecting a distributed generation facility to the Cooperative's electric distribution system.

Interconnection equipment – A group of components or an integrated system connecting an electric generator with a local electric power system or an electric distribution system that includes all interface equipment, including switchgear, protective devices, inverters, or other interface devices. Interconnection equipment may be installed as part of an integrated equipment package that includes a generator or other electric source.

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Interconnection facilities – Facilities and equipment required by the Cooperative to accommodate the interconnection of a distributed generation facility. Collectively, interconnection facilities include all facilities, and equipment between the distributed generation facility and the point of interconnection, including modification, additions, or upgrades that are necessary to physically and electrically interconnect the distributed generation facility to the electric distribution system. Interconnection facilities are sole use facilities and do not include distribution upgrades.

Interconnection request – An interconnection member-consumer's request, on the required form, for the interconnection of a new distributed generation facility, or to increase the capacity or change the operating characteristics of an existing distributed generation facility that is interconnected with the Cooperative's electric distribution system.

Interconnection study – Any of the following studies, as determined to be appropriate by the Cooperative: the interconnection feasibility study, the interconnection system impact study, and the interconnection facilities study.

Parallel operation or Parallel – The state of operation that occurs when a distributed generation facility is connected electrically to the electric distribution system for longer than 100 milliseconds.

Point of interconnection – The point where the distributed generation facility is electrically connected to the electric distribution system. Point of interconnection has the same meaning as the term "point of common coupling" defined in 3.1.13 of IEEE Standard 1547.

Qualifying facility – A cogeneration facility or a small power production facility that is a qualifying facility under 18 CFR Part 292, Subpart B, used by an interconnection member-consumer to generate electricity that operates in parallel with the electric distribution system. A qualifying facility typically includes an electric generator and the interconnection equipment required to interconnect safely with the electric distribution system or local electric power system.

Witness test – For lab-certified equipment, verification (either by an on-site observation or review of documents) by the Cooperative that the interconnection installation evaluation required by IEEE Standard 1547 Section 5.3 and the commissioning test required by IEEE Standard 1547 Section 5.4 have been adequately performed. For interconnection equipment that has not been lab-certified, the witness test shall also include verification by the Cooperative of the on-site design tests required by IEEE Standard 1547 Section 5.1 and verification by the Cooperative of production tests required by IEEE Standard 1547 Section 5.2. All tests verified by the Cooperative are to be performed in accordance with the test procedures specified by IEEE Standard 1547.1.

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President





ATTACHMENT 3

Levels 2 To 4: Standard Interconnection Agreement

Description, Costs and Time Required to  
Build and Install the Cooperative's Interconnection Facilities

This attachment is to be completed by the Cooperative and shall include the following:

1. Required interconnection facilities, including any required metering.
2. An estimate of itemized costs charged by the Cooperative for interconnection, including overheads, based on results from prior studies.
3. An estimate for the time required to build and install the Cooperative's interconnection facilities based on results from prior studies and an estimate of the date upon which the facilities will be completed.

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ATTACHMENT 4

Levels 2 To 4: Standard Interconnection Agreement

Operating Requirements for Distributed Generation Facilities Operating in Parallel

The Cooperative shall list specific operating practices that apply to this distributed generation interconnection and the conditions under which each listed specific operating practice applies.

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President



ATTACHMENT 6

Levels 2 To 4: Standard Interconnection Agreement

Metering Requirements

This attachment is to be completed by the Cooperative and shall include the following:

1. The metering requirements for the distributed generation facility. For QF's with a capacity rating of 50 kW or greater but less than 150 kW, demand metering will be required. For facilities with a capacity rating of 150 kW or greater, WAPA will require SCADA and other communications facilities. The specific requirements will be included in the Agreements to be executed between the QF and the utility. Some of these requirements are detailed in the Requirements for Generation & Transmission Interconnections published by Corn Belt, which can be made available upon request.
2. Identification of the appropriate metering rules as set out in the Cooperative's tariff filed with the Iowa Utilities Board under subrule 199 IAC 20.2(5), and inspection and testing practices adopted under rule 199 IAC 20.6 that establish these requirements.
3. An internet link to these rules and practices.

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ATTACHMENT 7

Levels 2 To 4: Standard Interconnection Agreement

As Built Documents

This attachment is to be completed by the interconnection member-consumer and shall include the following:

When it returns the certificate of completion to the Cooperative, the interconnection member-consumer shall provide the Cooperative with documents detailing the as-built status of the following:

1. A one-line diagram indicating the distributed generation facility, interconnection equipment, interconnection facilities, and metering equipment.
2. Component specifications for equipment identified in the one-line diagram.
3. Component settings.
4. Proposed sequence of operations.
5. A three-line diagram showing current potential circuits for protective relays.
6. Relay tripping and control schematic diagram.

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interconnection member-consumer during the course of the interconnection feasibility study. If the interconnection member-consumer modifies its interconnection request, the time to complete the interconnection feasibility study may be extended by the Cooperative.

5. In performing the study, Cooperative shall rely on existing studies of recent vintage to the extent practical. The interconnection member-consumer will not be charged for such existing studies; however, interconnection member-consumer is responsible for the cost of applying any existing study to the interconnection member-consumer specific requirements and for any new study that the Cooperative performs.
6. The interconnection feasibility study report must provide the following information:
  - 6.1 Identification of any equipment short circuit capability limits exceeded as a result of the interconnection,
  - 6.2 Identification of any thermal overload or voltage limit violations resulting from the interconnection, and
  - 6.3 A description and nonbinding estimated cost of facilities required to interconnect the distributed generation facility to Cooperative’s electric distribution system
7. Interconnection member-consumer shall provide a study deposit equal to 100% of the estimated nonbinding study costs at least 20 business days prior to the date upon which the study commences.
8. The interconnection feasibility study shall be completed and the results shall be transmitted to interconnection member-consumer within 60 business days after this Agreement is signed by the Parties or the complete study deposit is received by the Cooperative, whichever occurs later. If the interconnection member-consumer’s study request involves more than one point of interconnection and configuration, the time to complete the interconnection feasibility study may be extended by the Cooperative.
9. Study fees shall be based on actual costs and will be invoiced to interconnection member-consumer after the study is transmitted to interconnection member-consumer. The invoice must include an itemized listing of employee time and costs expended on the study.
10. Interconnection member-consumer shall pay any actual study costs that exceed the deposit without interest within 30 calendar days on receipt of the invoice. Cooperative shall refund any excess deposit amount without interest within 30 calendar days after the invoice.

In witness whereof, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

\_\_\_\_\_  
Interconnection member-consumer

Signed: \_\_\_\_\_

Issued: March 26, 2013

Effective: June 1, 2013

Issued By:                           /s/ Marvin Janssen                          

President

Franklin Rural Electric Cooperative Section 25 COGENERATION AND SMALL POWER PRODUCTION  
Electric Tariff Original Sheet No. 128  
Filed with Iowa Utilities Board Sheet No. \_\_\_\_\_

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Name (Printed): \_\_\_\_\_ Title: \_\_\_\_\_

Franklin Rural Electric Cooperative

Signed: \_\_\_\_\_

Name (Printed): \_\_\_\_\_ Title: \_\_\_\_\_

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Issued: March 26, 2013

Effective: June 1, 2013

Issued By:                   /s/ Marvin Janssen                  

President



ATTACHMENT A

Interconnection Feasibility Study Agreement

Assumptions Used in Conducting the Interconnection Feasibility Study

The interconnection feasibility study will be based upon the information in the interconnection request application form, agreed upon on \_\_\_\_\_:

1. Point of interconnection and configuration to be studied.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. Alternative points of interconnection and configurations to be studied.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Note: 1 and 2 are to be completed by the interconnection member-consumer. Any additional assumptions (explained below) may be provided by either the interconnection member-consumer or the Cooperative.

\_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Issued: March 26, 2013

Effective: June 1, 2013

Issued By:                                 /s/ Marvin Janssen                                

President

**Appendix G – Standard interconnection system impact study agreement**

**INTERCONNECTION SYSTEM IMPACT STUDY AGREEMENT**

This agreement (“Agreement”) is made and entered into this \_\_\_\_ day of \_\_\_\_\_, by and between \_\_\_\_\_ (“interconnection member-consumer”), as an individual person, or as a \_\_\_\_\_ organized and existing under the laws of the State of \_\_\_\_\_, and Franklin Rural Electric Cooperative, (“Cooperative”), a cooperative corporation existing under the laws of the State of Iowa. Interconnection member-consumer and Cooperative each may be referred to as a “Party,” or collectively as the “Parties.”

Recitals:

Whereas, interconnection member-consumer is proposing to develop a distributed generation facility or modifying an existing distributed generation facility consistent with the interconnection request application form completed by interconnection member-consumer on \_\_\_\_\_; and

Whereas, interconnection member-consumer desires to interconnect the distributed generation facility to Cooperative’s electric distribution system; and

Whereas, Cooperative has completed an interconnection feasibility study and provided the results of said study to interconnection member-consumer (this recital to be omitted if the Parties have agreed to forego the interconnection feasibility study); and

Whereas, interconnection member-consumer has requested Cooperative to perform an interconnection system impact study to assess the impact of interconnecting the distributed generation facility to Cooperative’s electric distribution system;

Now, therefore, in consideration of and subject to the mutual covenants contained herein the Parties agree as follows:

1. All terms defined in Iowa Utilities Board Chapter 45 rules on Electric Interconnection of Distributed Generation Facilities (199 IAC 45.1) shall have the meanings indicated in that rule when used in this Agreement, unless otherwise specified. However, Cooperative's agreement to utilize the definitions found in the Chapter 45 rules shall not be construed as an agreement concerning the applicability of the balance of said Chapter.
2. Interconnection member-consumer elects and Cooperative shall cause to be performed an interconnection system impact study.

3. The scope of the interconnection system impact study shall be based upon the information set forth in the interconnection request application form and in Attachment A to this Agreement.
4. The interconnection system impact study shall be based upon the interconnection feasibility study and the technical information provided by interconnection member-consumer in the interconnection request application form. Cooperative reserves the right to request additional technical information from interconnection member-consumer. If interconnection member-consumer modifies its proposed point of interconnection, interconnection request, or the technical information provided therein is modified, the time to complete the interconnection system impact study may be extended.
5. The interconnection system impact study report shall provide the following information:
  - 5.1 The underlying assumptions of the study;
  - 5.2 The results of the analyses;
  - 5.3 A list of any potential impediments to providing the requested interconnection service;
  - 5.4 Required distribution upgrades; and
  - 5.5 A nonbinding estimate of cost and time to construct any required distribution upgrades.
6. Interconnection member-consumer shall provide a study deposit equal to 100% of the estimated nonbinding study costs at least 20 business days prior to the date upon which the study commences.
7. The interconnection system impact study, if required, shall be completed and the results transmitted to interconnection member-consumer within 60 business days after this Agreement is signed by the Parties or the complete study deposit is received by the Cooperative, whichever occurs later. If the interconnection member-consumer's study request involves more than one point of interconnection and configuration, the time to complete the interconnection system impact study may be extended by the Cooperative.
8. Study fees shall be based on actual costs and shall be invoiced to interconnection member-consumer after the study is transmitted to interconnection member-consumer. The invoice shall include an itemized listing of employee time and costs expended on the study.
9. Interconnection member-consumer shall pay any study costs that exceed the deposit within 30 calendar days after receipt of the invoice. Cooperative shall refund any excess deposit amount within 30 calendar days of the invoice.

In witness thereof, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

\_\_\_\_\_  
Interconnection member-consumer

Issued: March 26, 2013

Effective: June 1, 2013

Issued By:                             /s/ Marvin Janssen                            

President

Franklin Rural Electric Cooperative Section 25 COGENERATION AND SMALL POWER PRODUCTION  
Electric Tariff Original Sheet No. 132  
Filed with Iowa Utilities Board Sheet No. \_\_\_\_\_

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Signed: \_\_\_\_\_

Name (Printed): \_\_\_\_\_ Title: \_\_\_\_\_

Franklin Rural Electric Cooperative

Signed: \_\_\_\_\_

Name (Printed): \_\_\_\_\_ Title: \_\_\_\_\_

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Issued: March 26, 2013

Effective: June 1, 2013

Issued By:       /s/ Marvin Janssen      

President

**ATTACHMENT A**

Interconnection System Impact Study Agreement

Assumptions Used in Conducting the Interconnection System Impact Study

The interconnection system impact study shall be based upon the results of the interconnection feasibility study, subject to any modifications, and the following assumptions:

1. Point of interconnection and configuration to be studied.

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2. Alternative points of interconnection and configurations to be studied.

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Note: 1 and 2 are to be completed by the interconnection member-consumer. Any additional assumptions (explained below) may be provided by either the interconnection member-consumer or the Cooperative.

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Franklin Rural Electric Cooperative Section 25 COGENERATION AND SMALL POWER PRODUCTION  
Electric Tariff Original Sheet No. 135  
Filed with Iowa Utilities Board Sheet No. \_\_\_\_\_

4. An interconnection facilities study report (1) shall provide a description, estimated cost of distribution upgrades, and a schedule for required facilities to interconnect the distributed generation facility to Cooperative's electric distribution system; and (2) shall address all issues identified in the interconnection system impact study (or identified in this study if the system impact study is combined herein).
5. Interconnection member-consumer shall provide a study deposit of 100% of the estimated nonbinding study costs at least 20 business days prior to the date upon which the study commences.
6. In cases where no distribution upgrades are required, the interconnection facilities study shall be completed and the results shall be transmitted to interconnection member-consumer within 20 business days after this Agreement is signed by the Parties. In cases where distribution upgrades are required, the interconnection facilities study shall be completed and the results shall be transmitted to interconnection member-consumer within 45 business days after this Agreement is signed by the Parties or the complete study deposit is received by the Cooperative, whichever occurs later.
7. Study fees shall be based on actual costs and will be invoiced to interconnection member-consumer after the study is transmitted to interconnection member-consumer. The invoice shall include an itemized listing of employee time and costs expended on the study.
8. Interconnection member-consumer shall pay any actual study costs that exceed the deposit within 30 calendar days on receipt of the invoice. Cooperative shall refund any excess deposit amount within 30 calendar days after the invoice.

In witness whereof, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

\_\_\_\_\_  
Interconnection member-consumer

Signed: \_\_\_\_\_

Name (Printed): \_\_\_\_\_ Title: \_\_\_\_\_

Franklin Rural Electric Cooperative

Signed: \_\_\_\_\_

Name (Printed): \_\_\_\_\_ Title: \_\_\_\_\_

Issued: March 26, 2013

Effective: June 1, 2013

Issued By: /s/ Marvin Janssen

President

ATTACHMENT A

Interconnection Facilities Study Agreement

Minimum Information that the Interconnection Customer Must Provide with the Interconnection Facilities Study Agreement

Provide location plan and simplified one-line diagram of the distributed generation facilities.

For staged projects, please indicate size and location of planned additional future generation.

On the one-line diagram, indicate the generation capacity attached at each metering location. (Maximum load on CT/PT).

On the one-line diagram, indicate the location of auxiliary power. (Minimum load on CT/PT) Amps.

One set of metering is required for each generation connection to the Cooperative's electric distribution system.

Number of generation connections: \_\_\_\_\_

Will an alternate source of auxiliary power be available during CT/PT maintenance?  
Yes \_\_\_\_\_ No \_\_\_\_\_

Will a transfer bus on the generation side of the metering require that each meter set be designed for the total distributed generation capacity? Yes \_\_\_\_\_ No \_\_\_\_\_  
(Please indicate on the one-line diagram).

What type of control system or PLC will be located at the distributed generation facility?  
\_\_\_\_\_.

What protocol does the control system or PLC use? \_\_\_\_\_.

Please provide a scale drawing of the site. Indicate the point of interconnection, distribution line, and property lines.

Number of third-party easements required for Cooperative's interconnection facilities:  
\_\_\_\_\_  
.....

To be Completed in Coordination with the Cooperative

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Issued: March 26, 2013 Effective: June 1, 2013  
Issued By: /s/ Marvin Janssen  
President



Franklin Rural Electric Cooperative Section 25 COGENERATION AND SMALL POWER PRODUCTION  
Electric Tariff Original Sheet No. 137  
Filed with Iowa Utilities Board Sheet No. \_\_\_\_\_

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Is the distributed generation facility located in Cooperative's service area?  
Yes \_\_\_\_\_ No \_\_\_\_\_

If No, please provide name of local provider: \_\_\_\_\_

Please provide the following proposed schedule dates:

Begin construction date: \_\_\_\_\_

Generator step-up transformers receive back feed power date: \_\_\_\_\_

Commissioning testing date: \_\_\_\_\_

Witness testing date: \_\_\_\_\_

Commercial operation date: \_\_\_\_\_

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Issued: March 26, 2013

Issued By:   /s/ Marvin Janssen  

President

Effective: June 1, 2013